KILTON AND WELCH BUILDINGS

MAY 15, 2023 PERMIT SET

THESE DRAWINGS ARE ONLY FOR THE WELCH DORM, WELCH NEW FACULTY RESIDENCE AND EXISTING WELCH FACULTY RESIDENCE

FOR SITE RELATED DRAWINGS SEE "2023-05-15 PERMIT SET_SITE-CIVIL"
FOR KILTON RELATED DRAWINGS SEE "2023-05-15 PERMIT SET_KILTON DORM"



Locator Map / Aerial Photo (NOT TO SCALE)

PROJECT INFORMATION

Primary State Adopted Codes

NH State Building Code

- ICC International Building Code (IBC) 2018 w/ NH Amendments
- ICC International Existing Building Code (IEBC) 2018 w/ NH Amendments
- ICC A117.1-2009
- ICC International Plumbing Code (IPC) 2018 w/ NH Amendments
- ICC International Mechanical Code (IMC) 2018 w/ NH Amendments
- ICC International Energy Conservation Code (IECC) 2018 w/ NH Amendments
- NFPA 70 Natrional Electric Code 2020 w/ NH Amendments

NH State Fire Code

- NFPA 1, Fire Code 2018
- NFPA 101, Life Safety Code 2018

*When a conflict between codes is identified, IBC applies for all categories, or where one code or standard has a requirement and another code or standard does not have a requirement the code or standard with a requirement shall apply.

USE AND OCCUPANCY CLASSIFICATION

NFPA - 6.1.14.3.2 - Building Occupancy is a mixed combination of Assembly, Residential, and Storage. Building shall comply to most restrictive - **Assembly.**

2,328 gsf

PROGRAM INFORMATION

KILTON:
20 new student beds
8 Renovated beds
2 new faculty residences
1 renovated faculty residence

Existing Dorm Area 2,644 gsf
Existing Faculty Residence 2,280 gsf
New Dorm Area 11,407 gsf
New Faculty Residence A 2,795 gsf

New Faculty Residence B WELCH:

ICH:
19 new student beds
1 new faculty residence

1 renovated faculty residence
Existing Faculty Residence 2,704 gsf
New Dorm Area 10,735 gsf
New Faculty Residence A 2,776 gsf

TYPES OF CONSTRUCTION

IBC 2018 - Fire Resistance Ratings Requirements for building elements in a **Type VB** Building shall be:

Bearing Walls - Exterior 0 hours
Bearing Walls - Interior 0 hours
Floor - Ceiling assemblies - 0 hours
Roof - Ceiling assemblies - 0 hours
Interior non-bearing walls - 0 hours
Exterior non-bearing walls - 0 hours

Building shall equipped throughout with a type NFPA 13 automatic sprinkler system.

1 HR fire-rated separation at exit enclosures, mechanical & electrical rooms, & elevators.

5.866201604:89W816M Fire Egress Plans For All Common Path of Travel, Dead End Corridor, & Travel Distance Limits.

Note on Printing Drawings: Architectural demolition sheets and detail sheets depicting envelope control layers are to be printed in full color. Incorrect demolition work or control layer installation due to black & white prints shall be the responsibility of the Construction Manager to remedy. Said sheets are as follows, but not limited to:

AK-0.5, AK-1.0, AK-6.0, AK-6.1, AK-6.2, AK-6.3, AK-6.4, AK-6.5,
AK-6.6, AK-6.7, AK-6.8, AK-10.3, AND AK-10.6

AW-0.5, AW-1.0, AW-6.0, AW-6.1, AW-6.2, AW-6.3, AW-6.4,
AW-6.5, AW-6.6, AW-6.8, AW-10.3, AND AW-10.6

ADDITIONAL SHEETS TO BE PRINTED IN COLOR: A-0.0, A-0.1, AL-1.0, AL-1.1 AK-0.4, and AW-0.4

NUMBER NAME C-0.1 SITE LEGEND & NOTES C-1.1 EXISTING CONDITIONS C-2.1 SITE PLAN C-2.2 GRADING & DRAINAGE PLANS C-2.3 UTILITY PLAN C-2.4 EROSION CONTROL PLAN C-3.1 SEWER PLAN AND PROFILES 1 C-3.2 SEWER PLAN AND PROFILES 2 C-4.1 SITE DETAILS C-4.2 SEWER PLAN AND PROFILES 2 C-4.1 SITE DETAILS C-4.2 SEWER DETAILS

C-4.3 WATER DETAILS

C-4.4 STORMWATER DETAILS

	KILTON & WELCH ELECTRICAL DRAWIN	IGS	
NUMBER	NAME	BID PACKAGE 1	H 1
E1	ELECTRICAL NOTES, LEGEND, DETAILS	X	,
E2	ELECTRICAL SITE PLAN	X)
E3	ELECTRICAL ONE LINE DIAGRAM	X	2
E4	ELECTRICAL LUMINAIRE SCHEDULE	X)
EK5	KILTON ELECTRICAL DEMOLITION	X)
EK6	KILTON ELECTRICAL BASEMENT	X)
EK7	KILTON LIGHTING FIRST FLOOR	X)
EK8	KILTON LIGHTING SECOND FLOOR	X)
EK9	KILTON POWER & SIGNAL FIRST FLOOR	X)
EK10	ELECTRICAL PANEL SCHEDULES	X)
EW11	WELCH ELECTRICAL DEMOLITION	X)
EW12	WELCH ELECTRICAL BASEMENT	X	,
EW13	WELCH ELECTRICAL FIRST FLOOR	X	
EW14	WELCH ELECTRICAL SECOND FLOOR	X	
EW15	ELECTRICAL PANEL SCHEDULES		
E16	ELECTRICAL SCHEDULES		2
LV1	LOW VOLTAGE NOTES & DIAGRAM		2
LVK2	KILTON LOW VOLTAGE BASEMENT)
LVK3	KILTON LOW VOLTAGE FIRST FLOOR)
LVK4	KILTON LOW VOLTAGE SECOND FLOOR		
LVW5	WELCH LOW VOLTAGE		

	KILTON & WELCH ARCHITECTURAL DRAW	INGS			
NUMBER	NAME	SD SET	01/13/23 SET	BID PACKAGE #1 03/27/23	PERMIT SET 05/15/23
A-0.0	COVER SHEET	Х	Х	Х	Х
A-0.1 L	LEGEND & ARCHITECTURAL INFORMATION			Х	Х
A-0.2 T	TYPICAL ACCESSIBILITY DETAILS				Х
A-0.3	ARCHITECTURAL SITE PLAN	X	Χ	Χ	Χ
AL-1.0 L	LANDSCAPE PLAN			Χ	X
AL-1.1 E	ENLARGED PLANTING PLANS & DETAILS			X	X

AVV-U.5	ASSEMBLITTES			^	<u> </u>
AW-0.5	ASSEMBLY TYPES			X	X
AW-0.4	FIRE EGRESS PLANS			Х	Х
AK-10.0	DOOK DEINIES				
AK-10.5 AK-10.6	DOOR SCHEDULE & DETAILS DOOR DETAILS			X	X
AK-10.4 AK-10.5	DOOR SCHEDULE & DETAILS			X	X
AK-10.3 AK-10.4	DOOR SCHEDULE			X	X
AK-10.2 AK-10.3	WINDOW SCHEDULE WINDOW DETAILS	X		X	X
AK-10.1a	FLOOR FINISH PLANS	V		V	X
AK-10.1	INTERIOR FINISHES SCHEDULE			X	X
AK-9.1	MILLWORK			\/	X
AK-8.5	ELEVATOR DRAWINGS			X	X
AK-8.4	STAIR DETAILS			X	X
					_
AK-8.2 AK-8.3	FACULTY RESIDENCE STAIR DETAILS			X	X
AK-8.1 AK-8.2	DORM STAIR A DETAILS DORM STAIR B DETAILS			X	X
AK-7.0 AK-8.1	DORM STAIR A DETAILS			Χ	X
AK-7.7	ENLARGED DORM ROOM DRAWINGS				X
AK-7.7	ENLARGED FACULTY RESIDENCE A DRAWINGS ENLARGED FACULTY RESIDENCE A DRAWINGS				X
AK-7.5	ENLARGED FACULTY RESIDENCE A DRAWINGS				X
AK-7.5	ENLARGED BATHROOM DRAWINGS				X
AK-7.4	ENLARGED BATHROOM DRAWINGS				X
AK-7.3	ENLARGED PLANS & ELEVATIONS UPPER LOUNGE				X
AK-7.10	ENLARGED PLANS & ELEVATIONS GEAR & KITCHEN				X
AK-7.1a	ENLARGED COMMON AREA ELEVATIONS				X
AK-7.1	ENLARGED COMMON AREA DRAWINGS				X
AK-6.11	INTERIOR DETAILS				X
AK-6.10	INTERIOR DETAILS			X	X
AK-6.8	ROOF DETAILS			Χ	X
AK-6.6	DETAILS				X
AK-6.5	DETAILS			X	X
AK-6.4	DETAILS			Χ	X
AK-6.3	DETAILS			X	X
AK-6.2	EXTERIOR WALL SECTIONS AT NEW			X	X
AK-6.1	EXTERIOR WALL SECTIONS AT NEW			X	X
AK-6.0	EXTERIOR WALL SECTIONS AT EXISTING			Χ	X
AK-5.3	BUILDING SECTIONS AT NEW			X	X
AK-5.2	BUILDING SECTIONS AT NEW			X	X
AK-5.1	BUILDING SECTIONS AT NEW	X	X	X	X
AK-5.0	BUILDING SECTIONS AT EXISTING			X	X
AK-4.2	FACULTY RESIDENCE ELEVATIONS	X	X	X	X
AK-4.1	DORM ELEVATIONS	X	X	X	X
AK-3.3	SECOND FLOOR RCP			X	X
AK-3.2	FIRST FLOOR RCP			X	>
AK-3.1	BASEMENT RCP			X	>
AK-2.6	ROOF PLAN			X))
AK-2.5	FACULTY RESIDENCE B PLANS			X	X
AK-2.4	FACULTY RESIDENCE A PLANS	X	X	X	X
AK-2.3	SECOND FLOOR PLAN	X	X	X	X
AK-2.2	FIRST FLOOR PLAN	X	X	X))
AK-2.1	BASEMENT PLAN	X	X	X	<i>/</i>
AK-1.0	EXISTING/DEMO PLANS	X	X	X	>
AK-0.6	INTERIOR PARTITIONS			X	

AW-0.6 INTERIOR PARTITIONS

AW-1.0 EXISTING/DEMO PLANS

AVV-1.U	EXISTING/DEMO PLANS		Ι Λ	_ ^	Α
AW-2.1	BASEMENT PLAN	X	Х	Χ	Х
AW-2.2	FIRST FLOOR PLAN	X	Х	Х	Х
AW-2.3	SECOND FLOOR PLAN			Х	Х
AW-2.4	FACULTY RESIDENCE PLANS			Χ	Х
AW-2.5	ROOF PLAN			Х	Х
AW-3.1	BASEMENT RCP			Χ	Х
AW-3.2	FIRST FLOOR RCP			Χ	Х
AW-3.3	SECOND FLOOR RCP			Х	Х
AW-4.1	DORM ELEVATIONS	Х	Х	Χ	Х
AW-4.2	FACULTY RESIDENCE ELEVATIONS	X	Х	Χ	Х
AW-5.0	BUILDING SECTIONS AT EXISTING			Χ	Х
AW-5.1	BUILDING SECTIONS AT NEW	Х	Х	Х	Х
AW-5.2	BUILDING SECTIONS AT NEW			Х	Х
AW-5.3	BUILDING SECTIONS AT NEW			Х	Х
AW-6.0	EXTERIOR WALL SECTIONS AT EXISTING			Х	Х
AW-6.1	EXTERIOR WALL SECTIONS AT NEW			Х	Х
AW-6.2	EXTERIOR WALL SECTIONS AT NEW			Х	Х
AW-6.3	DETAILS			Х	Х
AW-6.4	DETAILS			Х	Х
AW-6.5	DETAILS			Х	Х
AW-6.6	DETAILS				Χ
AW-6.8	ROOF DETAILS			Х	Х
AW-6.10	INTERIOR DETAILS				Х
AW-7.1	ENLARGED COMMON AREA DRAWINGS				Х
AW-7.2	ENLARGED PLANS & ELEVATIONS GEAR & KITCHEN				Х
AW-7.3	ENLARGED PLANS & ELEVATIONS				Χ
AW-7.4	ENLARGED BATHROOM DRAWINGS				Х
AW-7.5	ENLARGED BATHROOM DRAWINGS				Х
AW-7.6	FACULTY RES. ENLARGED PLANS AND ELEVATIONS				Х
AW-7.7	ENLARGED FACULTY RESIDENCE DRAWINGS				Х
AW-7.8	ENLARGED DORM ROOM DRAWINGS				Х
AW-8.1	DORM NORTH STAIR SECTIONS			Х	Х
AW-8.2	DORM SOUTH STAIR SECTIONS			Х	Х
AW-8.3	ALL FACULTY RESIDENCES STAIR SECTIONS			Χ	Х
AW-8.4	STAIR DETAILS				Х
AW-8.5	ELEVATOR DRAWINGS			Х	Х
AW-9.1	MILLWORK				Х
AW-10.1	INTERIOR FINISHES SCHEDULE			Х	Х
AW-10.1a	FLOOR FINISH PLANS				Х
AW-10.2	WINDOW SCHEDULE	Х		Χ	Х
AW-10.3	WINDOW DETAILS			Х	Х
AW-10.4	DOOR SCHEDULE			Х	Х
AW-10.5	DOOR SCHEDULE & DETAILS			Х	V
	DOOK 3CHEDULE & DETAILS		1	. ^	X

| X | X

| x | x | x | x

	KILTON & WELCH STRUCTURAL DRA		I
number	NAME	SD SET	BID PACKAGE #1
CV O 1	CENTED AT MOTES DASIS OF DESIGN		V
SK-0.1	GENERAL NOTES, BASIS OF DESIGN GENERAL NOTES		X
SK-0.2	SPECIAL INSPECTIONS		X
SK-1.0	FOUNDATION PLAN		X
SK-1.1	FIRST FLOOR FRAMING PLAN		X
SK-1.1	SECOND FLOOR FRAMING PLAN		X
SK-1.3	ROOF FRAMING PLAN		X
SK-1.4	FACULTY RESIDENCE 'A' PLANS		X
SK-2.0	TYPICAL FOUNDATION DETAILS		X
SK-2.1	FOUNDATION DETAILS		X
SK-3.0	TYPICAL FRAMING DETAILS		X
SK-3.1	FRAMING DETAILS		X
SK-3.2	FRAMING DETAILS		X
SK-3.3	TYPICAL TRUSS DETAILS		X
SK-3.4	TYPICAL SHEAR WALL DETAILS		X
SW-0.1	GENERAL NOTES, BASIS OF DESIGN		X
SW-0.2	GENERAL NOTES		Х
SW-0.3	SPECIAL INSPECTIONS		Х
SW-1.0	FOUNDATION PLAN		Х
SW-1.1	FIRST FLOOR FRAMING PLAN		Х
SW-1.2	SECOND FLOOR FRAMING PLAN		X
SW-1.3	ROOF FRAMING PLAN		X
SW-2.0	TYPICAL FOUNDATION DETAILS		Х
SW-2.1	FOUNDATION DETAILS		Х
SW-3.0	TYPICAL FRAMING DETAILS		X
SW-3.1	FRAMING DETAILS		X
SW-3.2	FRAMING DETAILS		X
SW-3.3	TYPICAL TRUSS DETAILS		X
SW-3.4	TYPICAL SHEAR WALL DETAILS		X

	KILTON & WELCH MECHANICAL DRAWING	S
NUMBER	NAME	BID PACKAGE 1
MK-1.1	KILTON BASEMENT - AIR DISTRIBUTION	Х
MK-1.2	KILTON FIRST FLOOR - AIR DISTRIBUTION	X
MK-1.3	KILTON SECOND FLOOR - AIR DISTRIBUTION	X
MK-2.1	KILTON BASEMENT - MECHANICAL PIPING	X
MK-2.2	KILTON FIRST FLOOR - MECHANICAL PIPING	X
MK-2.3	KILTON SECOND FLOOR - MECHANICAL PIPING	X
MK-3.1	MECHANICAL DETAILS	X
MK-3.2	MECHANICAL DETAILS	X
MK-3.3	MECHANICAL DETAILS	X
MK-4.1	MECHANICAL SCHEDULES	X
MK-4.2	MECHANICAL SCHEDULES	X
MW-1.1	WELCH BASEMENT - AIR DISTRIBUTION	X
MW-1.2	WELCH FIRST FLOOR - AIR DISTRIBUTION	X
MW-1.3	WELCH SECOND FLOOR - AIR DISTRIBUTION	X
MW-2.1	WELCH BASEMENT - MECHANICAL PIPING	X
MW-2.2	WELCH FIRST FLOOR - MECHANICAL PIPING	X
MW-2.3	WELCH SECOND FLOOR - MECHANICAL PIPING	X
MW-3.1	MECHANICAL DETAILS	X
MW-3.2	MECHANICAL DETAILS	X
MW-3.3	MECHANICAL DETAILS	X
MW-4.01	MECHANICAL SCHEDULES	
MW-4.02	MECHANICAL SCHEDULES	

	KILTON & WELCH PLUMBING DRAWINGS		
number	NAME	BID PACKAGE 1	PERMIT SET
PK-1.1	KILTON BASEMENT - WASTE & VENT	X	X
PK-1.2	KILTON FIRST FLOOR - WASTE & VENT	X	X
PK-1.3	KILTON SECOND FLOOR - WASTE & VENT	X	X
PK-2.1	KILTON BASEMENT - DOMESTIC WATER	X	X
PK-2.2	KILTON FIRST FLOOR - DOMESTIC WATER	X	X
PK-2.3	KILTON SECOND FLOOR - DOMESTIC WATER	X	X
PK-3.1	KILTON BASEMENT - CONDENSATE	X	X
PK-3.3	KILTON SECOND FLOOR - CONDENSATE	X	X
PK-4.1	KILTON - PLUMBING DETAILS		X
PK-4.2	KILTON - PLUMBING SCHEDULES		X
PW-1.1	WELCH BASEMENT & FIRST FLOOR - WASTE & VENT	X	Х
PW-1.2	WELCH SECOND FLOOR - WASTE & VENT	X	Х
PW-2.1	WELCH BASEMENT & FIRST FLOOR - DOMESTIC WATER	X	Х
PW-2.2	WELCH SECOND FLOOR - DOMESTIC WATER	X	Х
PW-3.1	WELCH BASEMENT & FIRST FLOOR - CONDENSATE	X	Х
PW-3.2	WELCH SECOND FLOOR - CONDENSATE		Х
PW-4.1	WELCH - PLUMBING DETAILS		Х
PW-4.2	WELCH - PLUMBING SCHEDULES		Х



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

Date Description

REVISIONS:

PERMIT SET 05/15/2023

KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

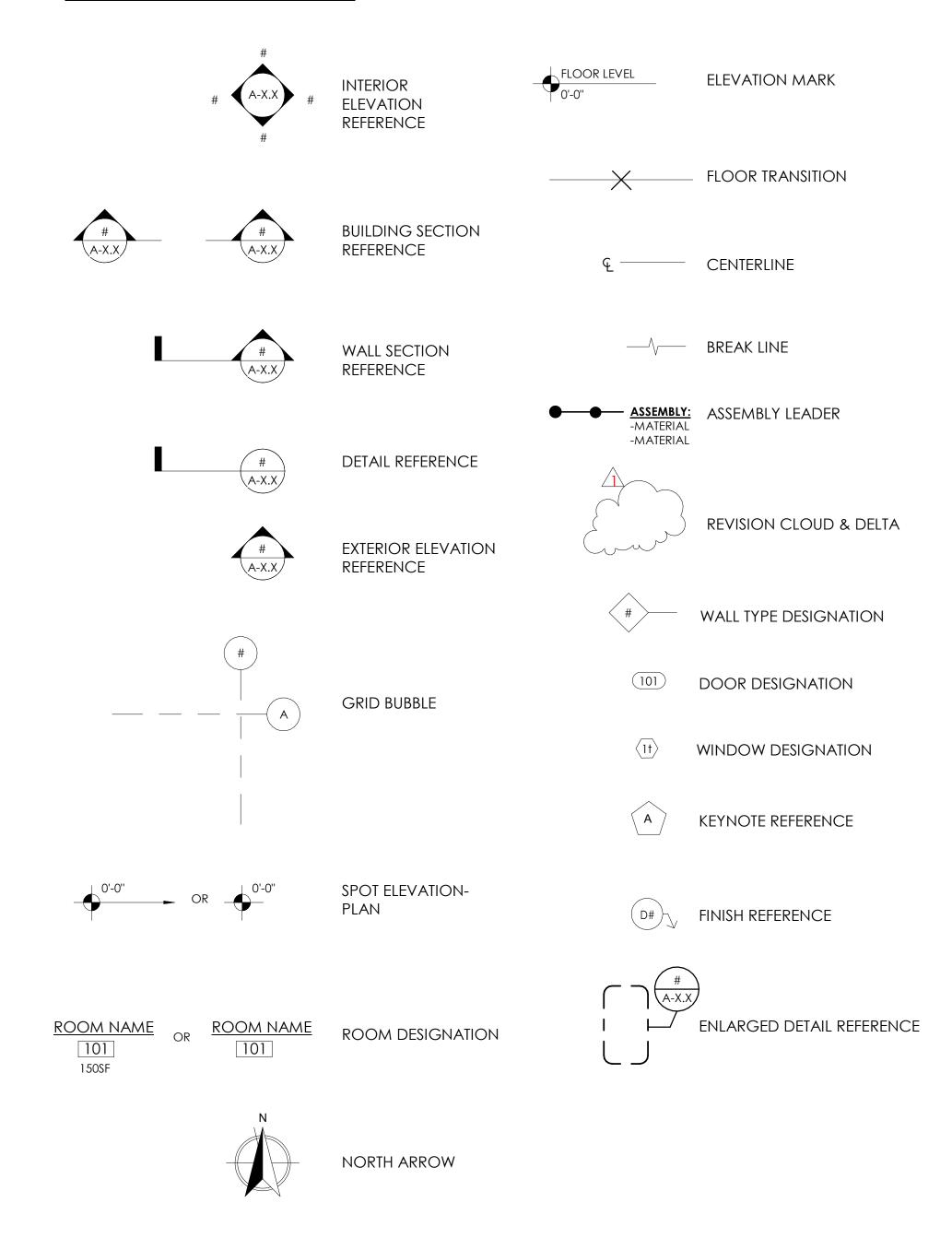
COVER SHEET

A-0.0

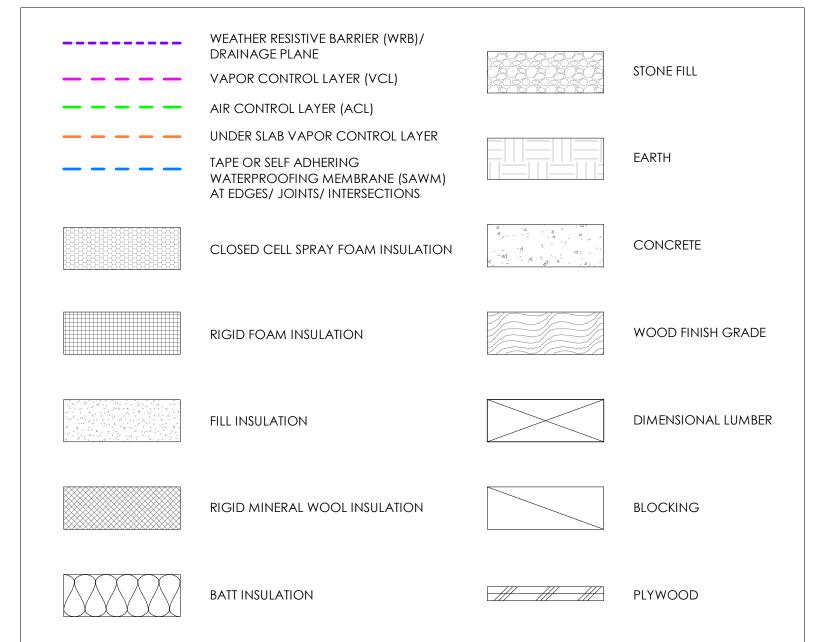
ARCHITECTURAL ABBREVIATIONS

ARCE	HIECTURAL ADDR	EVIAIIC	<u> </u>		
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
	ALUMINUM	FR.	FRAME	7411	74121712
				N1/A	NOT ADDITO ADIE
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
B.M.	BENCHMARK	G.W.B.	GYPSUM WALL BOARD	NOM.	NOMINAL
B.W.	BOTH WAYS	GA.	GAUGE		
BD.	BOARD	GALV.	GALVANIZED	O.A.E.	OR APPROVED EQUAL
BLDG.	BUILDING	GKT.	GASKET	O.C.	ON CENTER
BLKG.	BLOCKING	GL.	GLASS	O.D.	OUTSIDE DIAMETER
ВО	BY OTHERS	GYP.	GYPSUM	OPNG.	OPENING
BOT.	BOTTOM			OPP.	OPPOSITE
BSMT.	BASEMENT	H.B.	HOSE BIBB		
		H.C.	HOLLOW CORE	PC	PRE-CAST
C.B.	CATCH BASIN	H.M.	HOLLOW METAL	PT	PRESSURE TREATED
C.I.	CAST IRON	HVAC	HEATING VENT. & AIR COND.	PVC	POLYVINYL CHLORIDE
C.I.P.	CAST IN PLACE	H/C	HANDICAPPED	PL.	PLATE
C.J.	CONTROL JOINT	HDWD.	HARDWOOD	PLAM	PLASTIC LAMINATE
C.M.U.	CONCRETE MASONRY UNIT	HDWR.	HARDWARE	PLAS.	PLASTER
C.T.	CERAMIC TILE	HOR.	HORIZONTAL	PLG.	PLUMBING
CAB.	CABINET	HSS		PLYWD.	
	CENTERLINE	HT.	HEIGHT	PNL.	PANEL
C/L					
CLG.	CEILING	HWH	HOT WATER HEATER	PREFAB.	PREFABRICATE(D)
CL.	CLOSET			PTD.	PAINT(ED) (OR STAINED)
CLR.	CLEAR	I.D.	INSIDE DIAMETER	PVMT.	PAVEMENT
COL.	COLUMN	INCL.	INCLUDE(D) (-ING)		
CONC.	CONCRETE	INSUL.	INSULATE(D) (-ING)	Q.T.	QUARRY TILE
CONN.	CONNECTION	INT.	INTERIOR	QTY.	QUANTITY
COR.	CORRUGATED	INV.	INVERT	QII.	30/111111
		IIN V .	IINVERI	Б	
CPT.	CARPET			R.	RADIUS/RISER
CTR.	CENTER	JC	JANITOR'S CLOSET	R.B.	RUBBER BASE
		JAN.	JANITOR	R.F.	RUBBER FLOORING
D.	DEPTH	JST.	JOIST	R.D.	ROOF DRAIN
D.F.	DRINKING FOUNTAIN	JT.	JOINT	R.O.	ROUGH OPENING
D.H.	DOUBLE HUNG	51.	301111	REF.	REFERENCE
			LENGTH		
D.O.	DOOR OPENING	L.	LENGTH	REINF.	REINFORCING
DIA.	DIAMETER	LF	LINEAR FEET	REQ.	REQUIRED
DIAG.	DIAGONAL	L.L.	LIVE LOAD	RM.	ROOM
DIM.	DIMENSION	L.L.H.	LONG LEG HORIZONTAL		
DL.	DEAD LOAD	L.L.V.	LONG LEG VERTICAL	S.S.	STAINLESS STEEL
DN.	DOWN	LAM.	LAMINATE	SD	SOAP DISPENSER
	DETAIL	LAV.	LAVATORY	STRUCT	
DTL.					
DWG.	DRAWING	LOC.	LOCATE(D) (-ION)	SQ. FT.	SQUARE FEET
		LT.GA.	LIGHT GAUGE		
E.J.	EXPANSION JOINT	LTG.	LIGHTING	TB	THERMALLY BROKEN
EA.	EACH	LTL.	LINTEL	TP	TOILET PARTITION
ELEC.	ELECTRIC(AL)	LVR.	LOUVER	TPD	TOILET PAPER DISPENSER
ELEV.	ELEVATION	L V IX.	EOO VER	TYP.	TYPICAL
				111.	TITICAL
EP.	ELECTRICAL PANEL				INTERCONTUED VICE VICE TO
EQ.	EQUAL			U.O.N.	UNLESS OTHERWISE NOTED
EQUIP.	EQUIPMENT				
EXP.	EXPOSED			V.C.L.	VAPOR CONTROL LAYER
EXTG.	EXISTING			V.I.F.	VERIFY IN FIELD
EXT.	EXTERIOR				
L/\I.				WC	WASH CLOSET
				WRB	WEATHER RESISTIVE BARRIER
				WS	WINDOW SHADE

DRAWING SYMBOLS



SECTION DETAILS AND MATERIALS LEGEND





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

Date Description

REVISIONS:

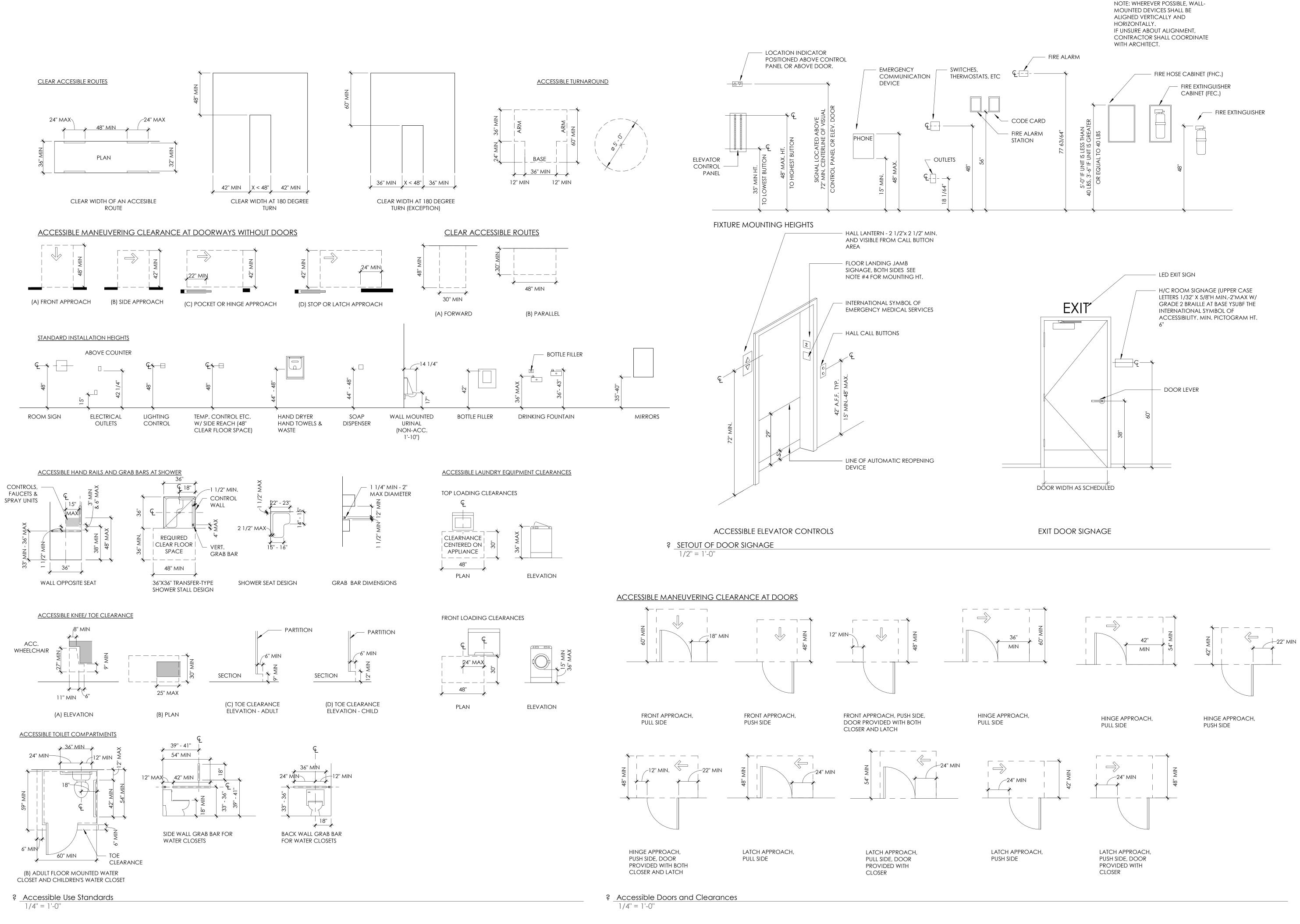
PERMIT SET 05/15/2023

KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

LEGEND &
ARCHITECTURAL
INFORMATION

A-0.1



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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

TYPICAL ACCESSIBILITY DETAILS

A-0.2

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

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	
0000	

second ribbi		
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

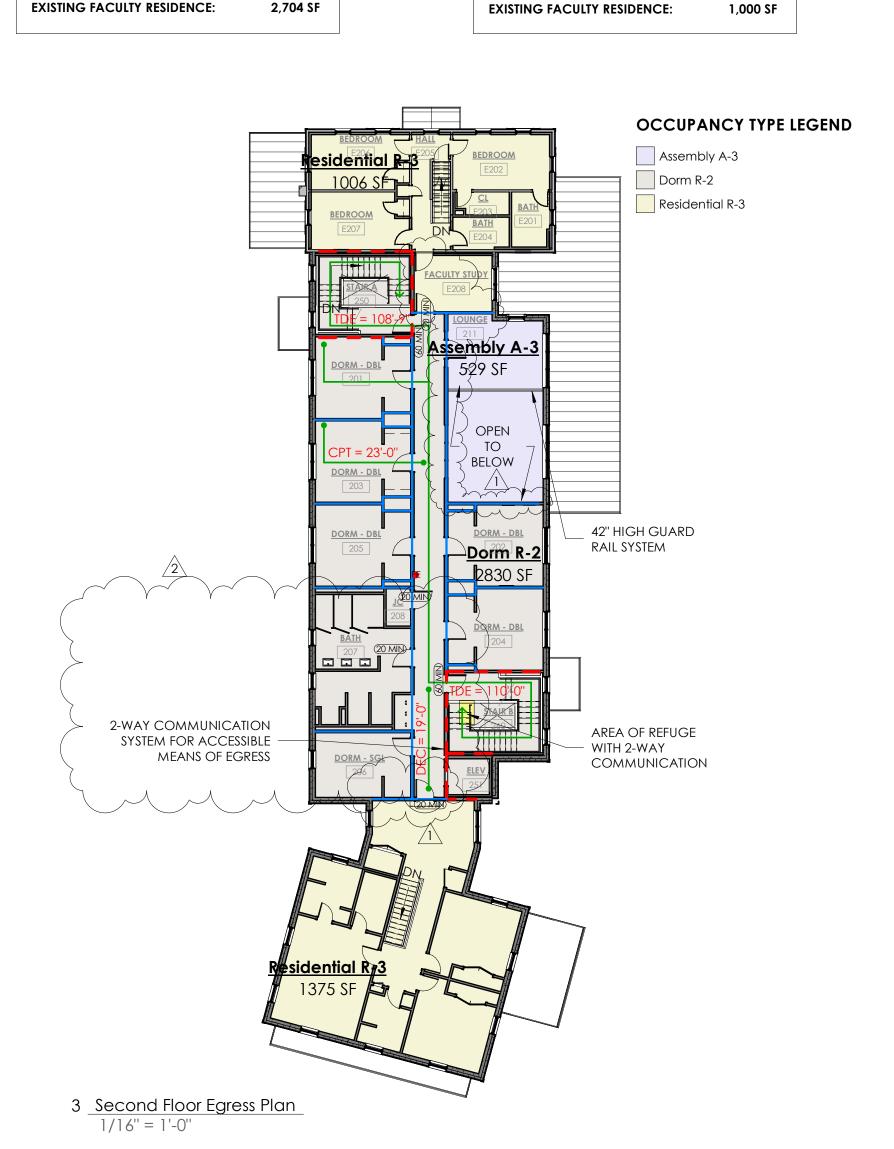
OCCUPANCY NOTES: -FLOOR AREA ALLOWANCES PER OCCUPANT ARE PER IBC TABLE 1004.5:

-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.

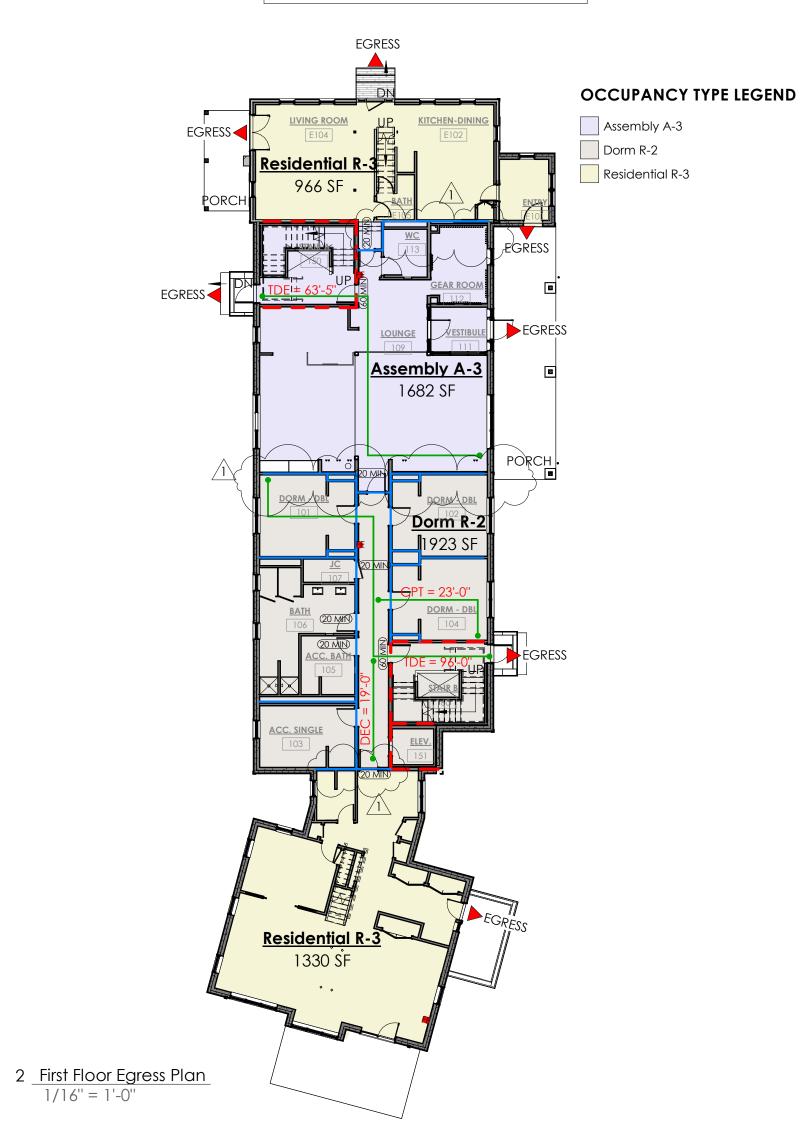
GENERAL FIREPROTECTION NOTES:

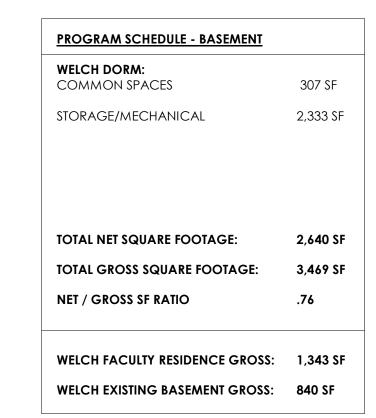
-ALL BUILDINGS IN THIS PROJECT (NEW FACULTY RESIDENCES, NEW DORMS, EXISTING DORMS AND EXISTING FACULTY RESIDENCES) WILL BE PROTECTED THROUGH-OUT WITH A NFPA 13 AUTOMATIC SPRINKLER SYSTEM (SEE SPECIFICATIONS SECTION 210000 FOR PERFORMANCE SPECIFICATIONS) AND WILL BE PROVIDED WITH A FIRE AND SMOKE ALARM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

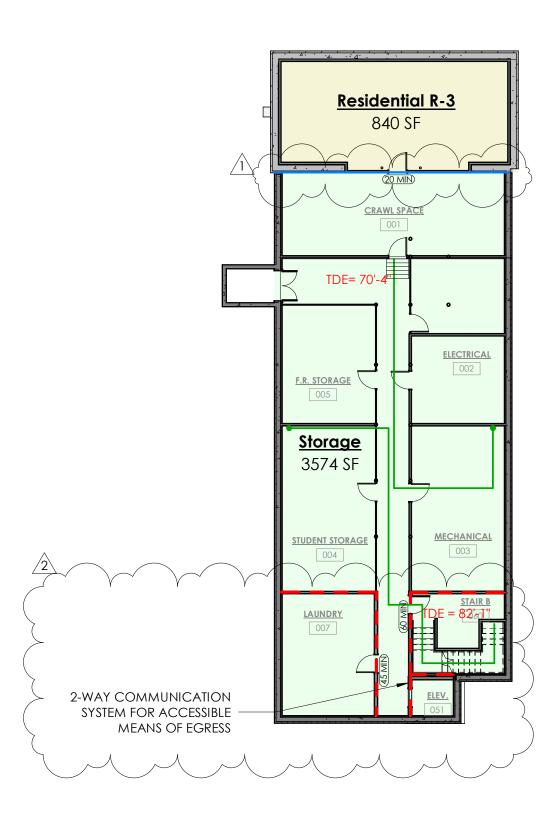
PROGRAM SCHEDULE - TOTAL		PROGRAM SCHEDULE - SECOND FLO	<u>OR</u>
WELCH DORM:		WELCH DORM: COMMON AREAS:	158 SF
		(5) DORM DOUBLES:	1,035 SF
		(1) DORM SINGLES:	152 SF
		(1) DORM BATHROOM:	301 SF
TOTAL NET SQUARE FOOTAGE:	6,591 SF	TOTAL NET SQUARE FOOTAGE:	1,646 SF
TOTAL GROSS SQUARE FOOTAGE:	10,320 SF	TOTAL GROSS SQUARE FOOTAGE:	3,312 SF
NET / GROSS SF RATIO	.64	NET / GROSS SF RATIO	.50
NUMBER OF DORM BEDS	19 BEDS	NUMBER OF DORM BEDS	11 BEDS
WELCH FACULTY RESIDENCE:	4,040 SF	WELCH FACULTY RESIDENCE:	1,338 SF
EVICTING EACHITY DECIDENCE.	2 704 SE	EVICTING FACULTY RESIDENCE	1 000 05



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







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

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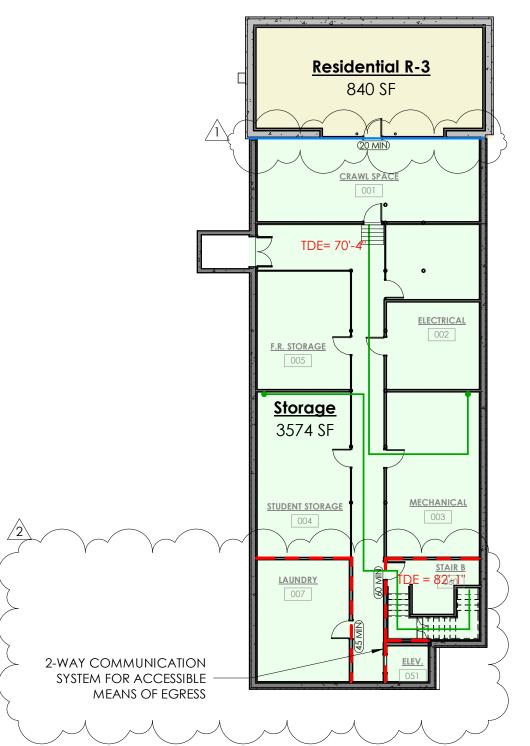
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ashar@vermontintegratedarchitecture.com

KUA KILTON/WELCH DORMITORIES

Main Street,

WELCH



1 Basement Egress Plan

1/16'' = 1'-0''

FIRE EXTINGUISHER, UNDER COUNTER EGRESS NOTES (PER IBC 2018):

EXIT ACCESS TRAVEL DISTANCE

1 HOUR RATED WALL FOR FIRE SEPARATION

DOOR FIRE RATING

1/2 HOUR RATED WALL FOR FIRE SEPARATION

PATH OF TRAVEL STARTING / END POINT

PATH OF TRAVEL INTERSECTION POINT

FIRE EXTINGUISHER, SEMI-RECESSED

ASSEMBLY= 75 FEET MAX
RESIDENTIAL= 125 FEET MAX
STORAGE= 100 FEET MAX

COMMON PATH OF TRAVEL LIMITS:

<u>DEAD END CORRIDOR LIMITS</u>: ASSEMBLY = 20 FEET MAX RESIDENTIAL= 50 FEET MAX STORAGE= 50 FEET MAX

EXIT ACCESS TRAVEL DISTANCE LIMITS: ASSEMBLY = 250 FEET MAX RESIDENTIAL= 250 FEET MAX STORAGE= 250 FEET MAX

CPT = COMMON PATH OF TRAVEL TDE = TOTAL DISTANCE TO EXIT DEC = DEAD END CORRIDOR

FLOOR PLAN LEGEND

EXISTING WALL

EXISTING CONCRETE WALL

EXISTING MASONRY WALL

NEW WALL/NEW WALL INFILL

OCCUPANCY TYPE LEGEND Residential R-3 Storage

EGRESS PLAN KEY

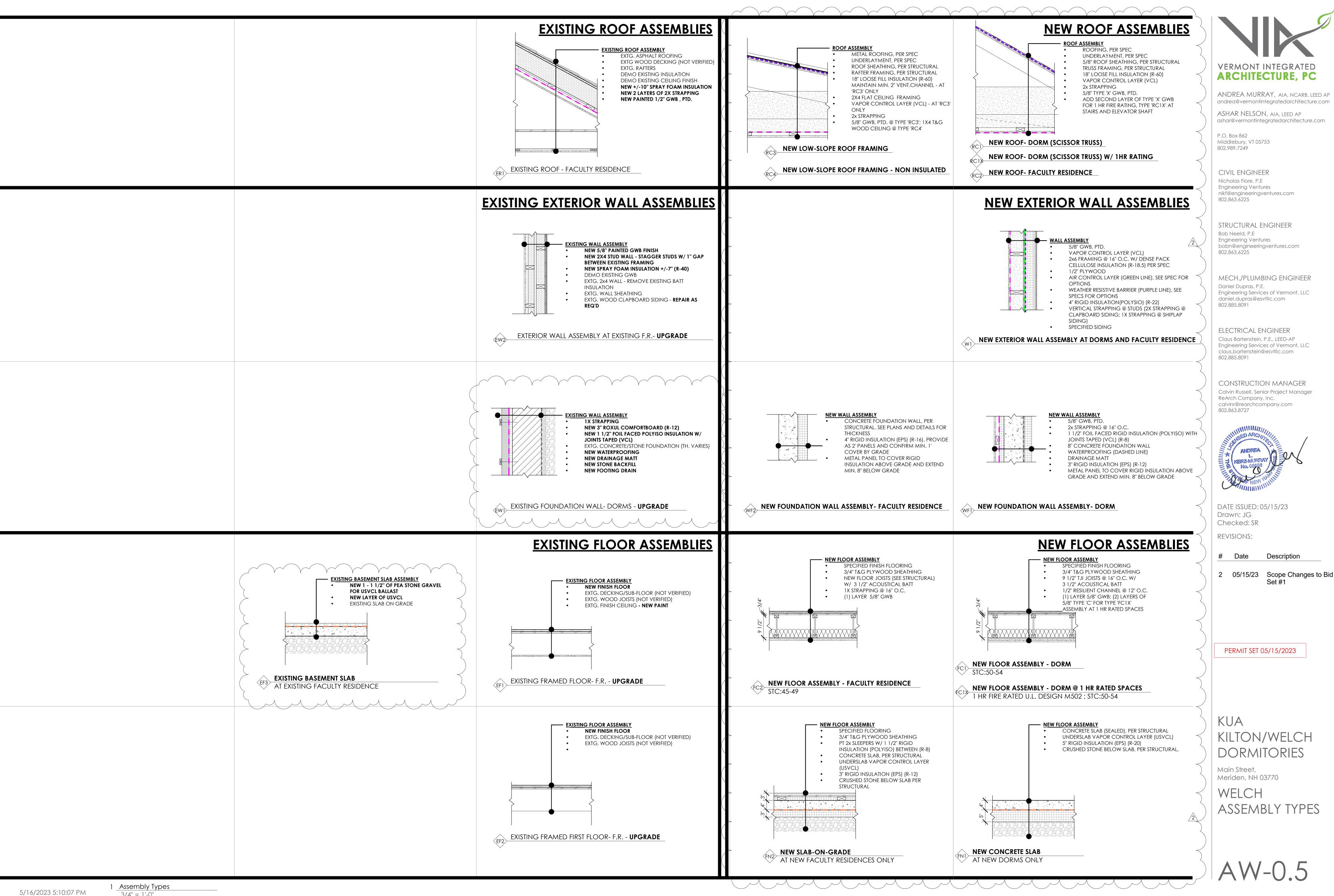
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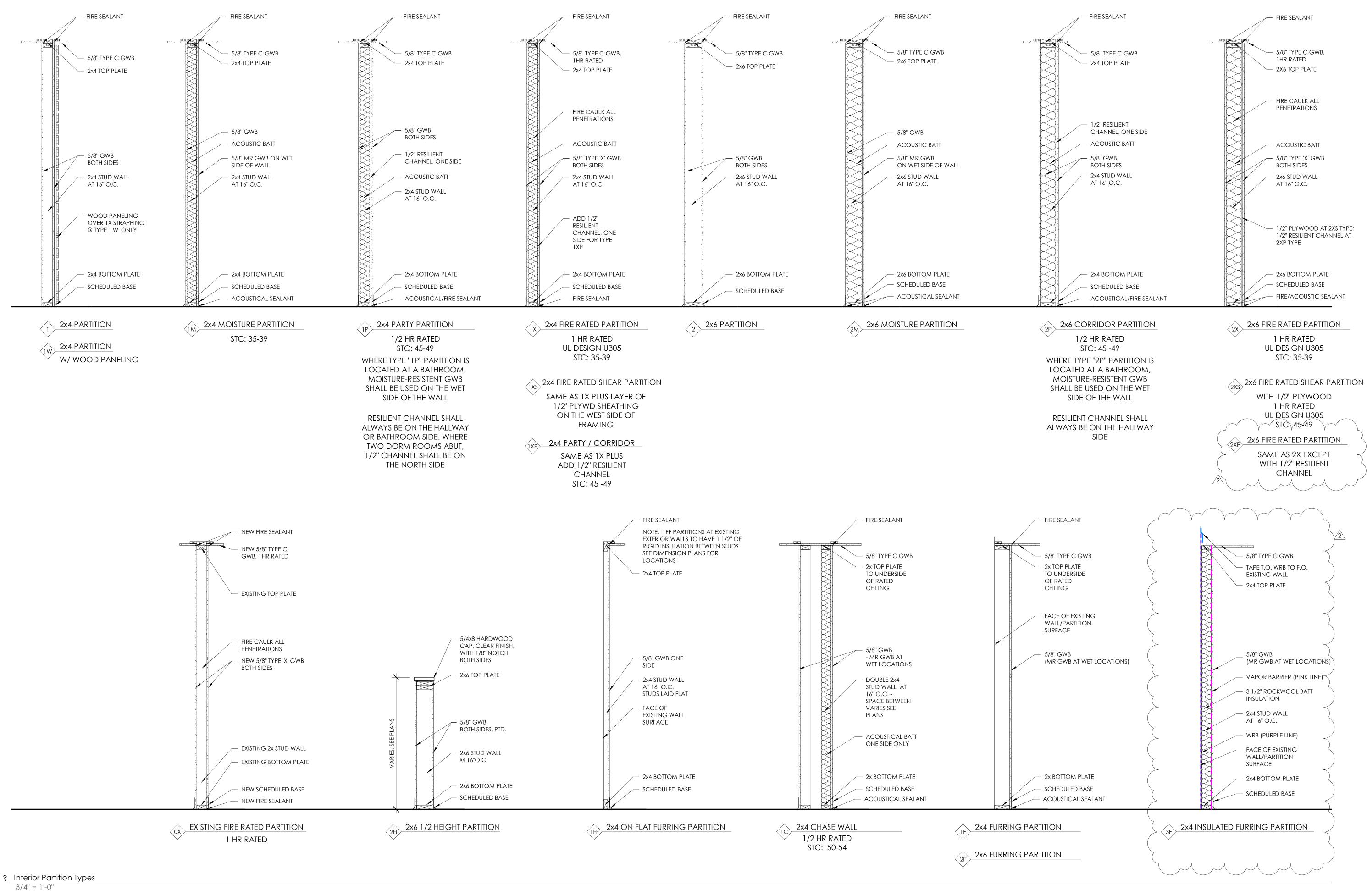
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FIRE EGRESS PLAN



3/4" = 1'-0"



GENERAL ACOUSTICAL NOTE:

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

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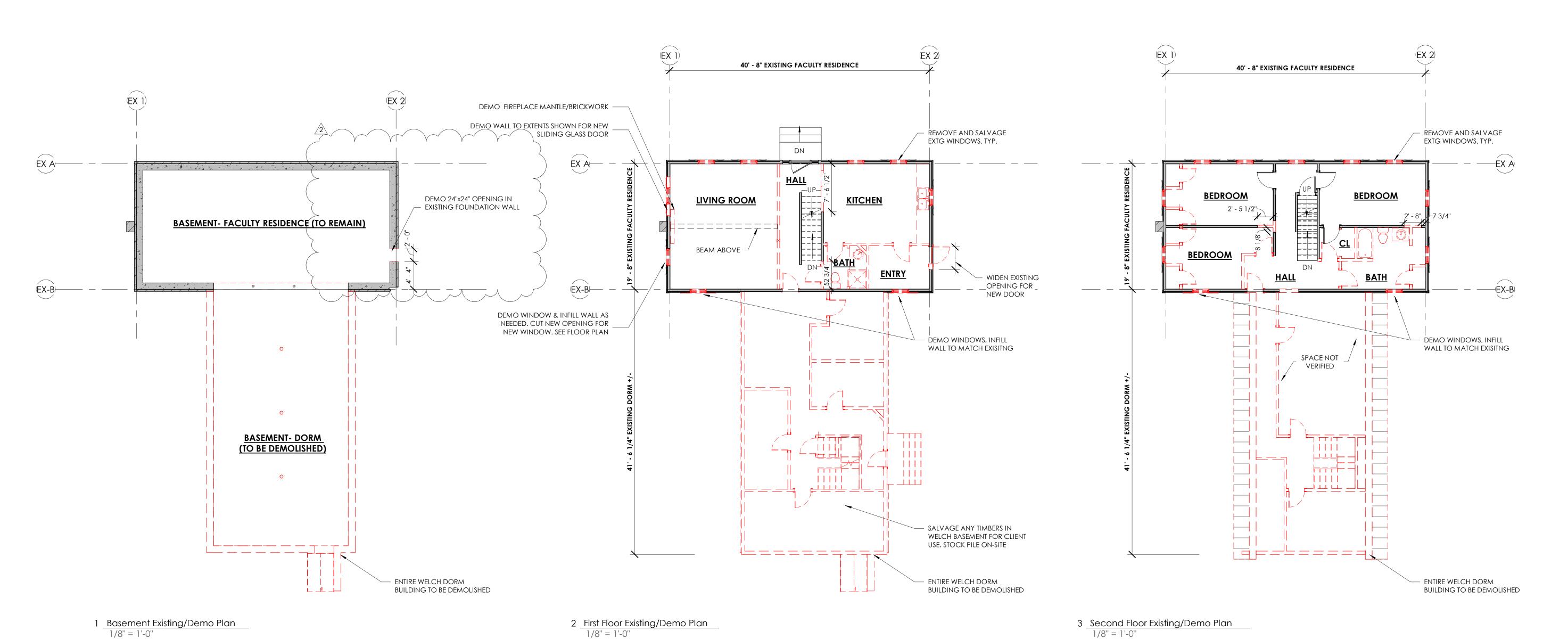
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KUA
KILTON/WELCH
DORMITORIES

Main Street, Meriden, NH 03770

WELCH INTERIOR PARTITIONS

AW-0.6



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KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH EXISTING / DEMO PLANS

GENERAL DEMOLITION NOTES:

VERIFY EXISTING CONDITIONS IN-FIELD. NOTIFY ARCHITECT OF ANY MAJOR DISCREPANCIES. RED DASHED ITEMS ARE FOR DEMOLITION.

<u>DEMO PLAN LEGEND</u>

FLOOR PLAN LEGEND

DEMOLISH/REMOVE

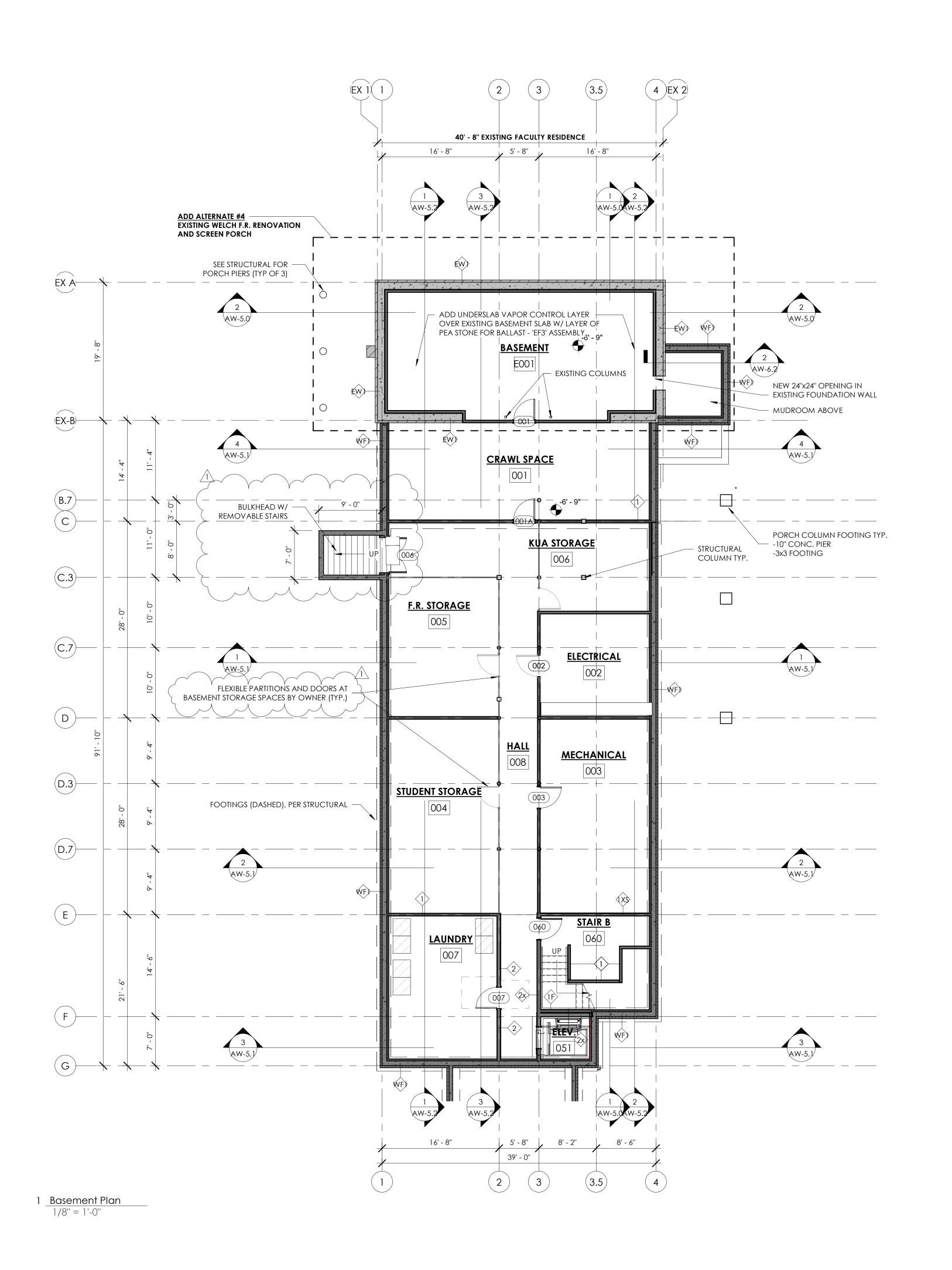
EXISTING WALL

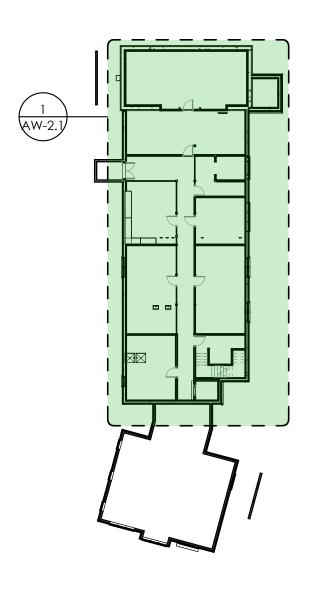
EXISTING CONCRETE WALL

EXISTING MASONRY WALL

NEW WALL/NEW WALL INFILL

- DIMENSIONS SHOWN ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE.
- SEE MEP DRAWINGS FOR DEMOLITION SCOPE OF EXISTING FIXTURES/DEVICES.
- SEE CIVIL, ELECTRICAL, AND PLUMBING DRAWINGS FOR EXTENT OF DEMO SCOPE REGARDING UTILITIES AND ON-SITE CONCRETE.
- SALVAGE EXISTING WINDOWS AND DOORS FOR RE-USE HERIN OR FOR CLIENT FUTURE USE. SALVAGE LANDSCAPE BRICKS AT EAST ENTRY FOR RE-USE IN NEW WALKWAYS. STOCK PILE





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



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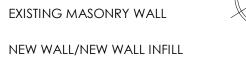
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- SEE SHEETS AW-0.5 & AW-0.6 FOR ASSEMBLY TYPE INFORMATION AND INTERIOR PARTITION INFO. FOR INTERIOR PARTITION LOCATIONS/DIMENSIONS, SEE 7-SERIES DRAWING SHEETS.
- PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
- ALL FURNITURE AND APPLIANCES BY OWNER; INSTALL COORDINATED WITH CM. BUILT-INS BY CONTRACTOR.
- ALL NEW BATHROOMS TO BE ACCESSIBLE BY CODE SEE EGRESS PLANS ON AW-0.4 FOR FIRE RATING REQUIREMENT LOCATIONS OF WALLS.

FLOOR PLAN LEGEND

EXISTING WALL

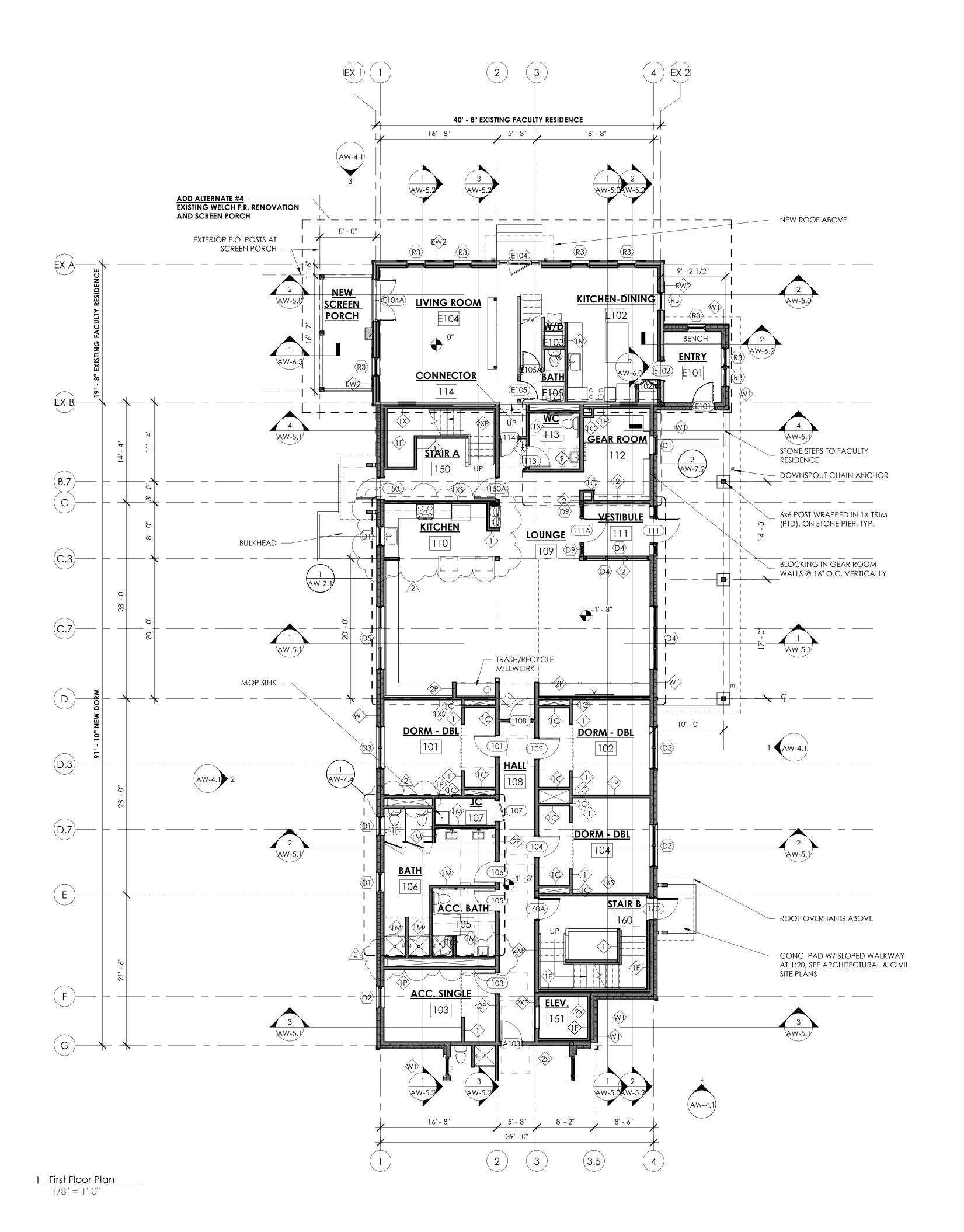
EXISTING CONCRETE WALL

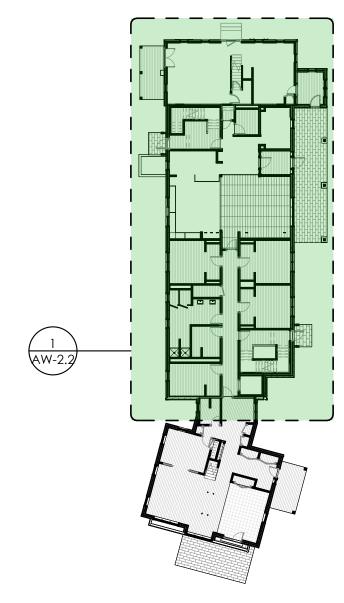


DORMITORIES Main Street, Meriden, NH 03770 WELCH

BASEMENT PLAN

KILTON/WELCH





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



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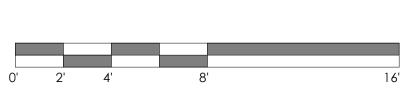
FLOOR PLAN LEGEND

EXISTING WALL

EXISTING CONCRETE WALL



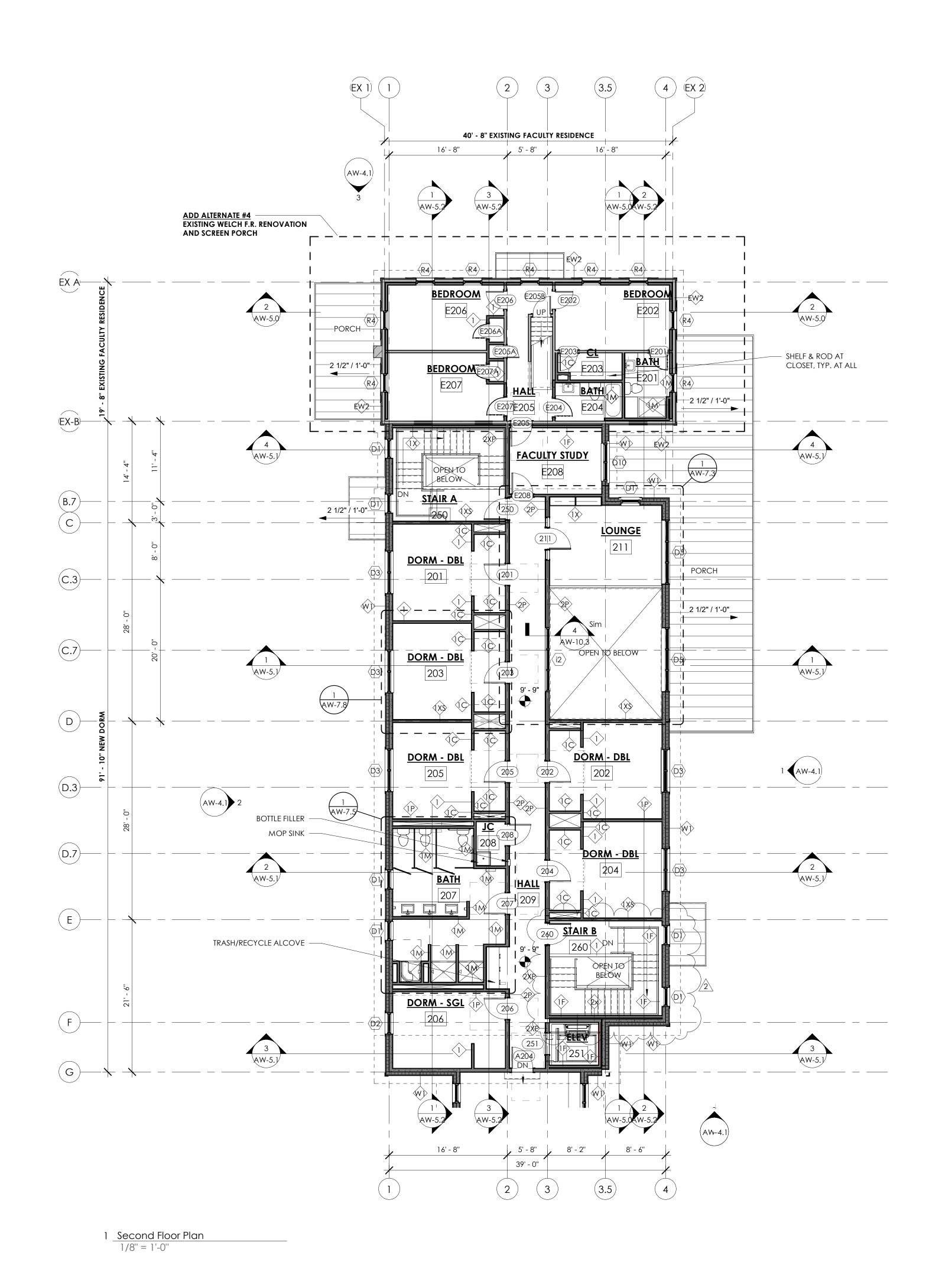
EXISTING MASONRY WALL

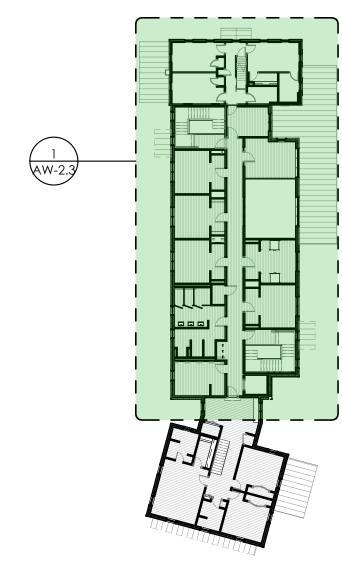


KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH FIRST FLOOR PLAN





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

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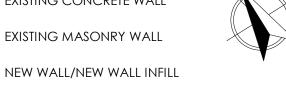
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FLOOR PLAN LEGEND

EXISTING WALL

EXISTING CONCRETE WALL



KILTON/WELCH DORMITORIES

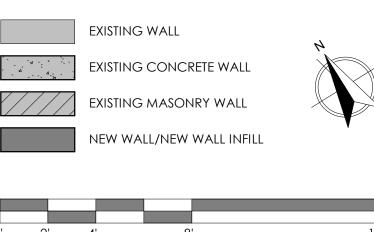
Main Street, Meriden, NH 03770

WELCH SECOND FLOOR PLAN

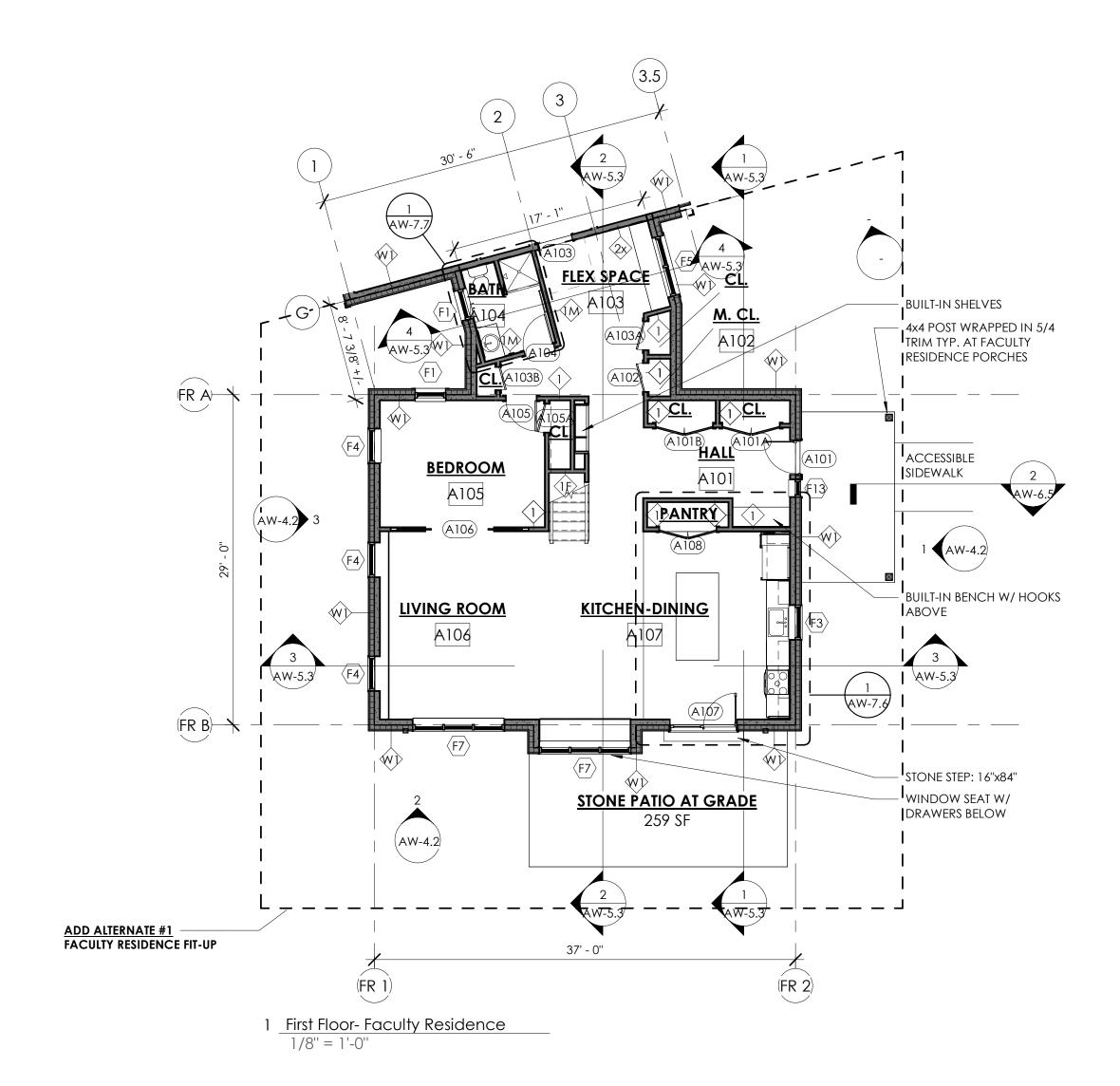
GENERAL NOTES:

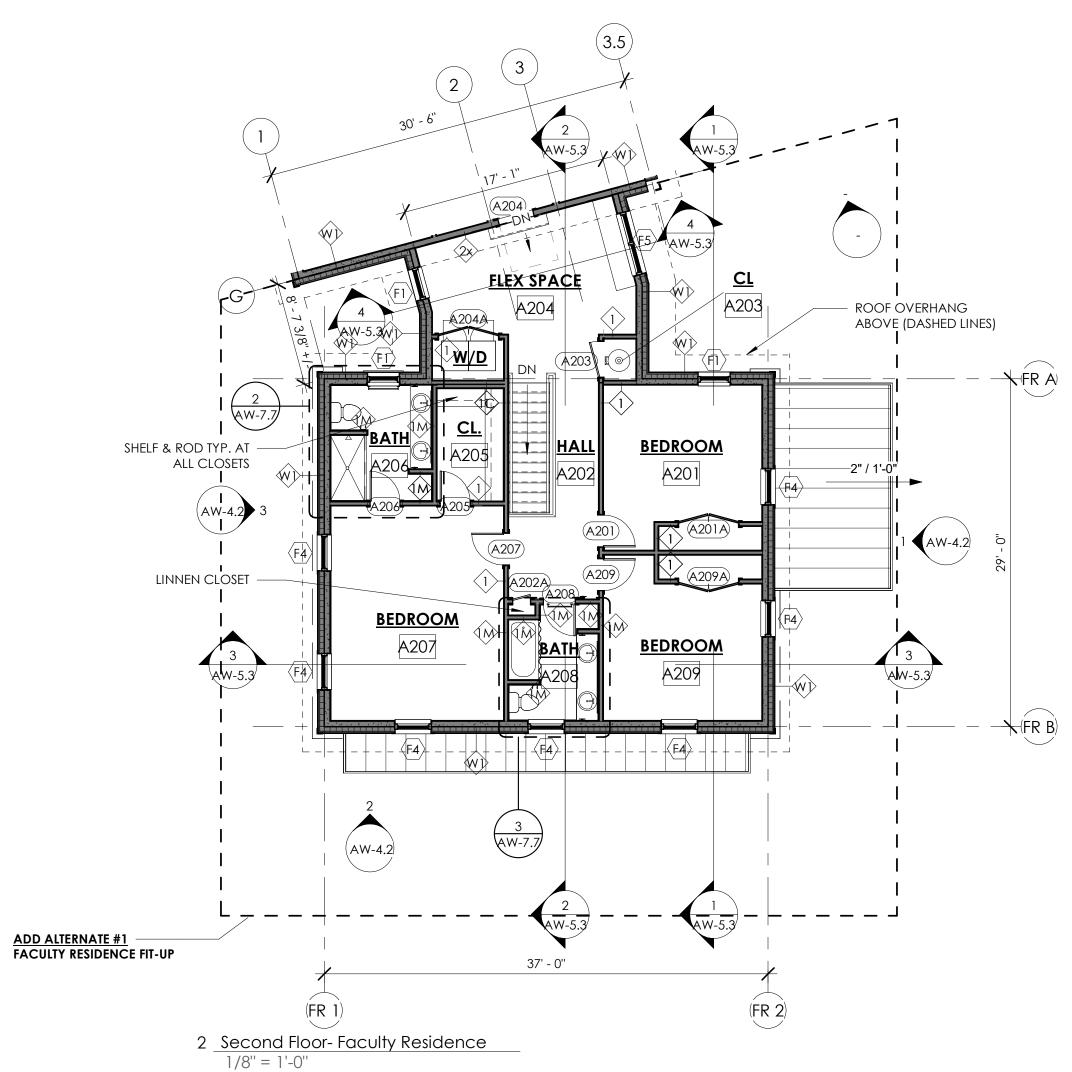
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- SEE EGRESS PLANS ON AW-0.4 FOR FIRE RATING REQUIREMENT LOCATIONS OF WALLS.

FLOOR PLAN LEGEND











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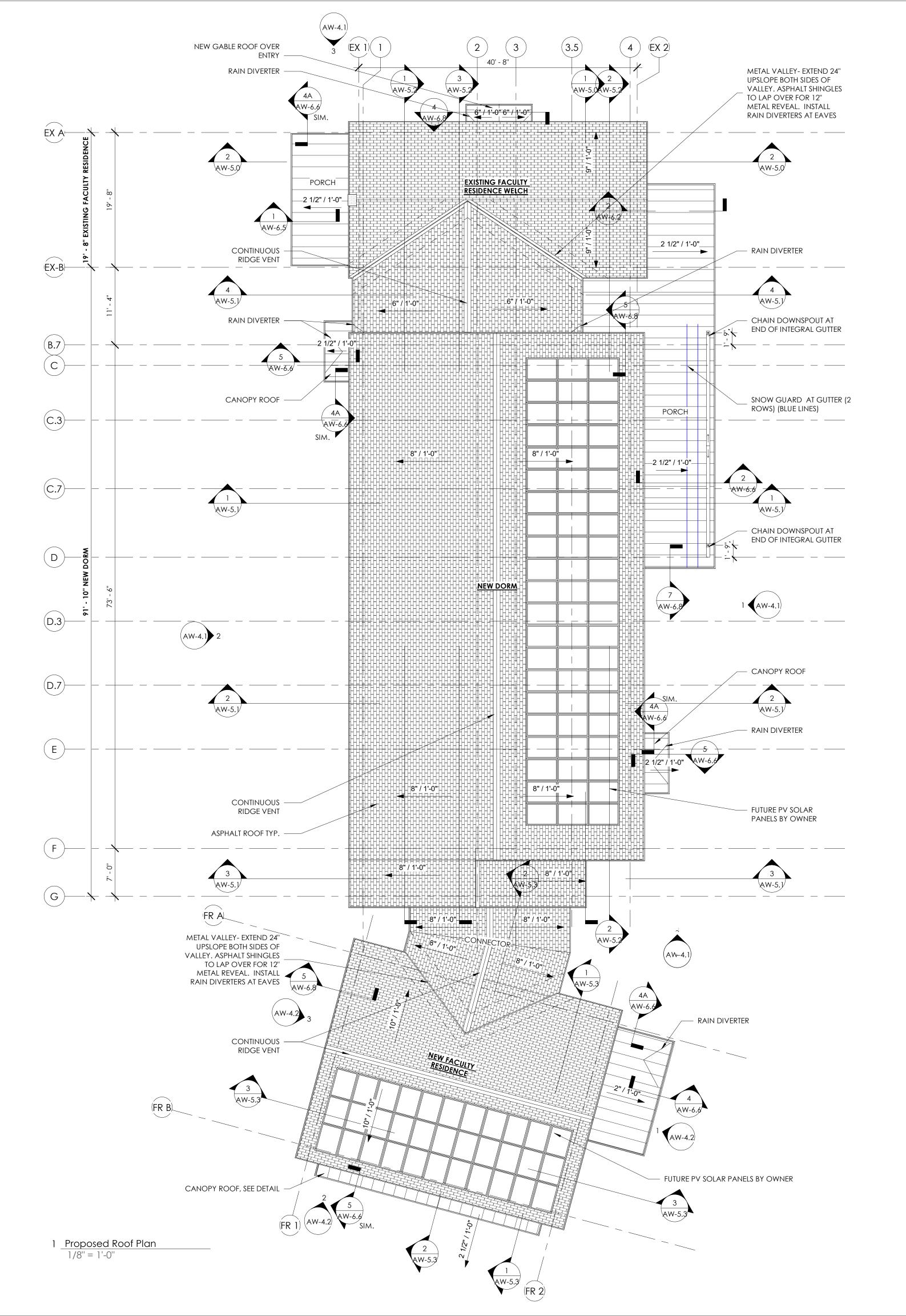
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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH FACULTY RESIDENCE PLANS

AW-2.4



ROOF GENERAL NOTES:

- 1. ALL DIMENSIONS TO FACE-OF-FRAMING, CONCRETE, OR GRIDLINE,
- 2. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES.
- 3. PROVIDE BLOCKING FOR ALL ROOF MOUNTED EQUIPMENT.
- PROVIDE PLATES FOR ALL OVERBUILD AREAS, REMOVING EXISTING FINISH ROOFING PRIOR TO INSTALLATION.
 COORDINATE ALL ROOF VENT & PENETRATION LOCATIONS WITH
- 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:

- ALL DIMENIONS 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.
 - SEE SHEETS AW-0.5 & AW-0.6 FOR ASSEMBLY TYPE INFORMATION AND INTERIOR PARTITION INFO.
 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
- 6. ALL FURNITURE AND APPLIANCES BY OWNER; INSTALL COORDINATED WITH CM. BUILT-INS BY CONTRACTOR.
- ALL NEW BATHROOMS TO BE ACCESSIBLE BY CODE
 SEE EGRESS PLANS ON AW-0.4 FOR FIRE RATING REQUIREMENT LOCATIONS OF WALLS.

FLOOR PLAN LEGEND





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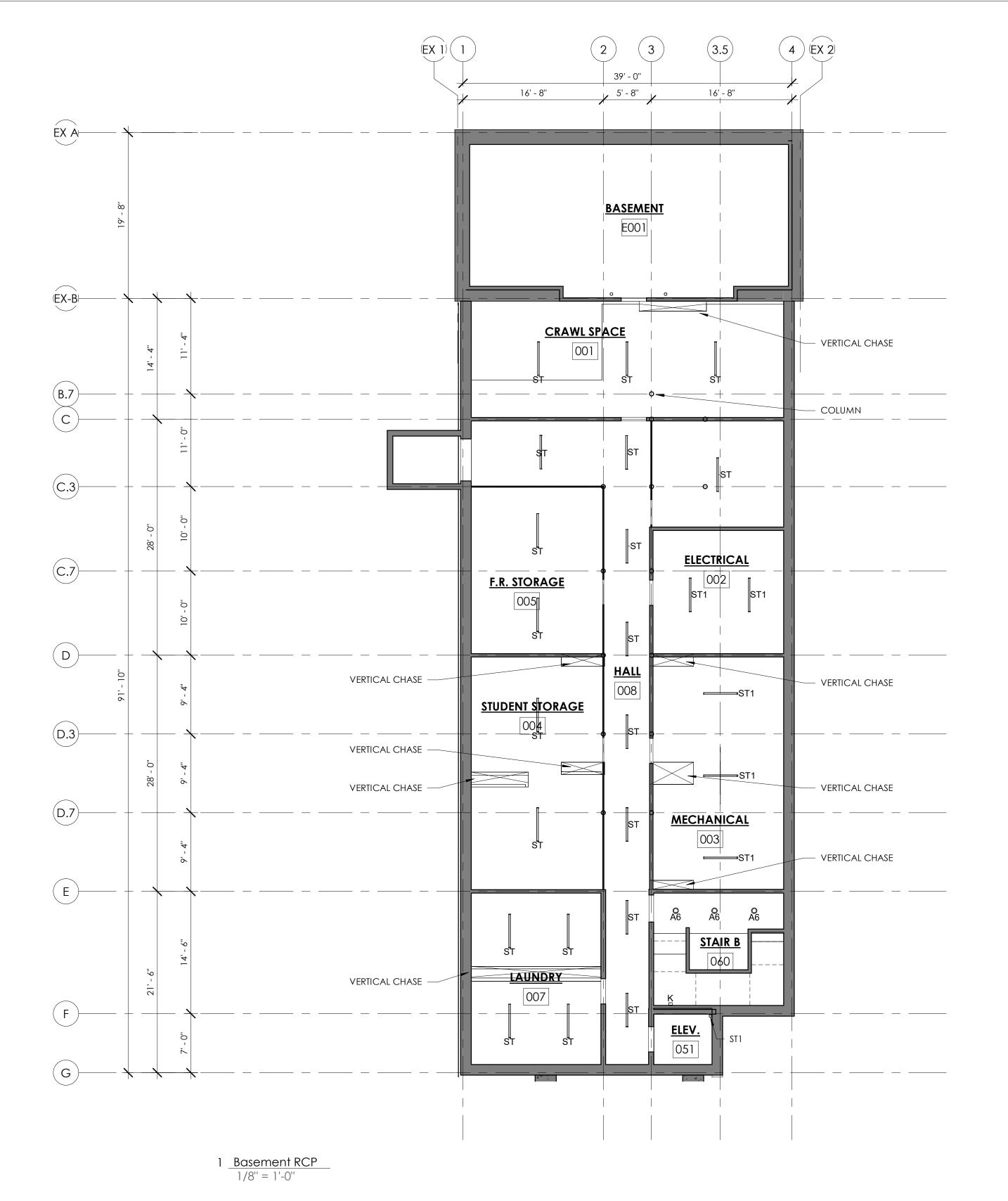
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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH ROOF PLAN

AW-2.5



RCP NOTES:

1. CEILING HEIGHTS SHOWN ARE APPROXIMATE. TBD, VIF.

EXISTING MASONRY WALL

SOFFIT WIDTHS SHOWN ARE TO OUTSIDE FACE-OF-FINISH. SEE DETAILS FOR CONSTRUCTION INFORMATION.
 COORDINATE WITH MECHANICAL DRAWINGS AS NEEDED FOR HVAC DEVICE LOCATIONS.

COORDINATE WITH MECHANICAL DRAWINGS AS NEEDED FOR HVAC DEVICE LOCATIONS.
 SEE ELECTRICAL LIGHTING PLANS FOR QUANTITIES, LOCATIONS, AND SPECS FOR FIXTURES.
 ALL LIGHTING AND DEVICE QUANITIES 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.

LOCATION OF FIXTURES SHOULD BE CENTERED WITHIN A CEILING, U.N.O.
 NEW AND EXISTING SPACES TO BE FULLY-EQUIPPED WITH A SPRINKLER SYSTEM.
 ASSUME GWB CEILING FINISH IN NEW STAIRS, UNDER EACH STRINGER. SEE DETAILS.
 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 CONCRETE WALL

GYPSUM WALL BOARD (SLOPED)

WOOD CEILING

1	NEW WALL/NEW WALL INFILL	THE PROPERTY OF THE PROPERTY O		
	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			
В	Interior Wall Luminaire			
D	DECORATIVE PENDANT- LARGE			
Е	DECORATIVE PENDANT- SMALL			
F	DECORATIVE PEDANT- MEDIUM			
G	LED STRIP LIGHT AT BATH ROOMS			
K	WALL MOUNTED SCONCE			
ST	UTILITY LIGHT			
ST1	UTILITY LIGHT			





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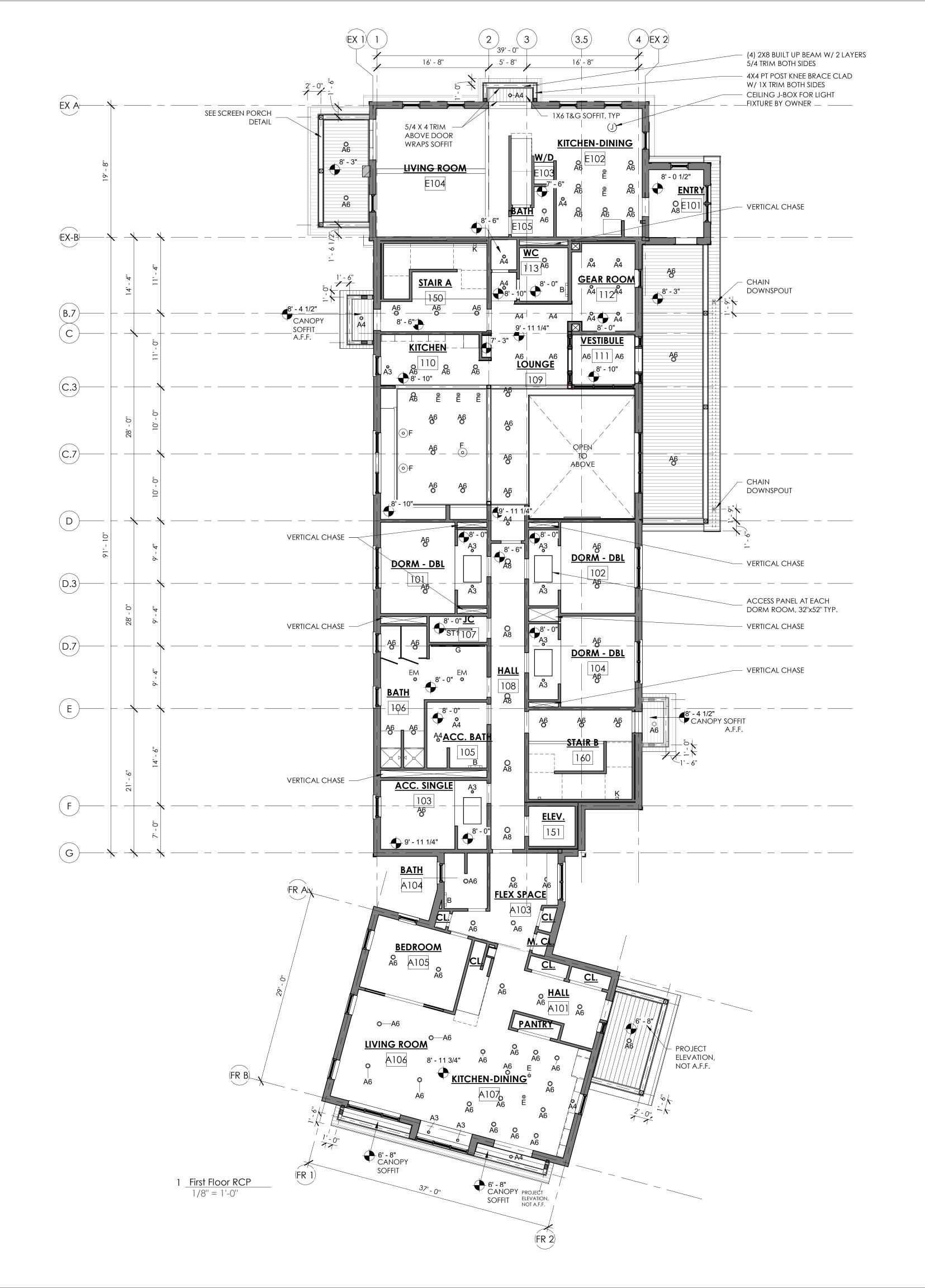
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KUA
KILTON/WELCH
DORMITORIES

Main Street, Meriden, NH 03770

WELCH BASEMENT RCP

AW-3.1



RCP NOTES:

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 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.

EXISTING WALL

EXISTING MASONRY 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				
A8	8 INCH RECESSED CAN/WAFER DOWNLIGHT- LED				
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D	DECORATIVE PENDANT- LARGE				
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G	LED STRIP LIGHT AT BATH ROOMS				
K	WALL MOUNTED SCONCE				
ST	UTILITY LIGHT				
ST1	UTILITY LIGHT				





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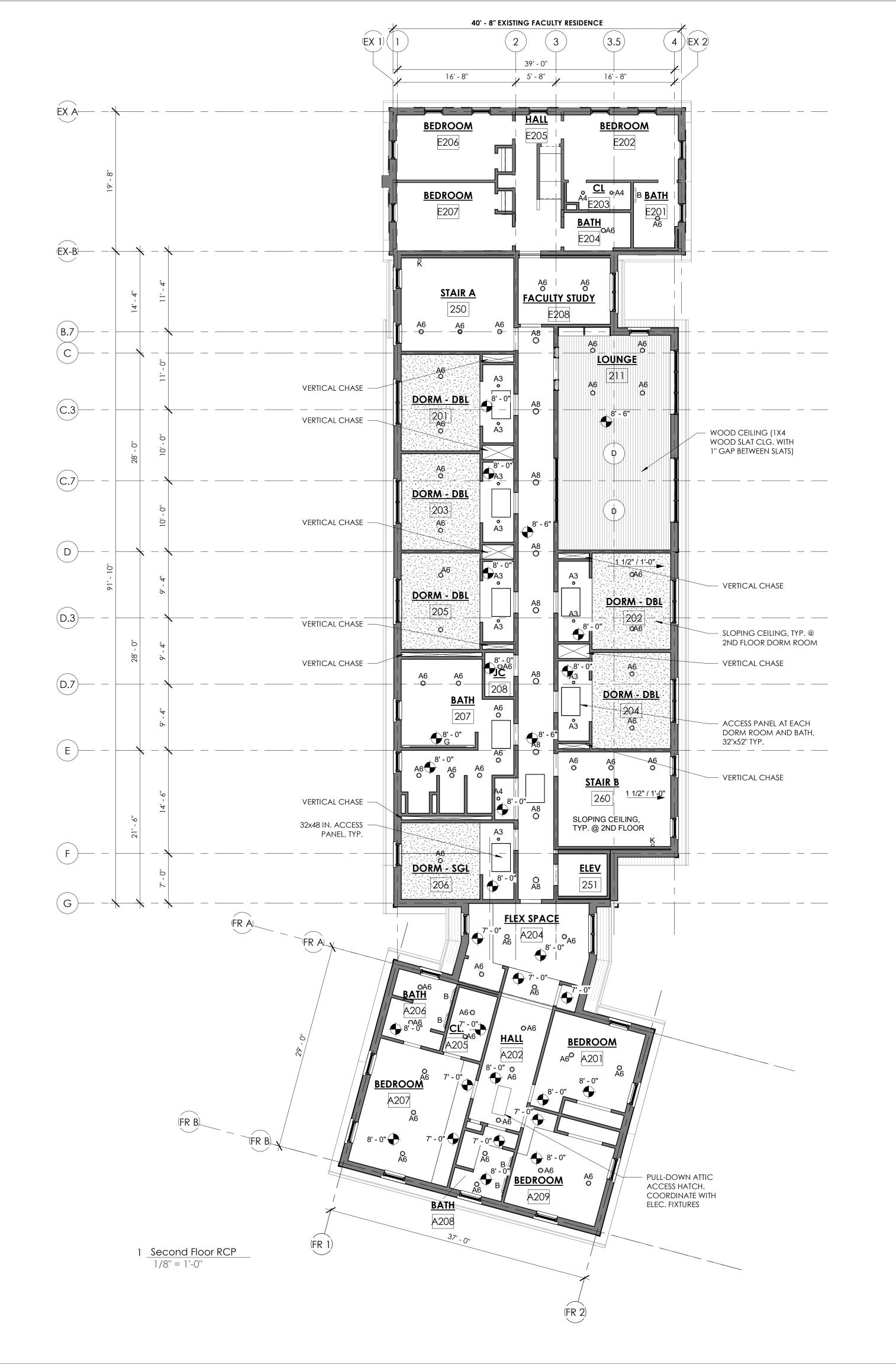
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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH FIRST FLOOR RCP

AW-3.2



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CEILING TYPES FLOOR PLAN LEGEND GYPSUM WALL BOARD EXISTING WALL EXISTING CONCRETE WALL GYPSUM WALL BOARD (SLOPED) EXISTING MASONRY WALL WOOD CEILING NEW WALL/NEW WALL INFILL

LIGHTING SCHEDULE				
Type Mark	Description			
A3	3 INCH RECESSED CAN/WAFER DOWNLIGHT - LED			
A4	4 INCH RECESSED CAN/WAFER DOWNLIGHT - LED			
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A8	8 INCH RECESSED CAN/WAFER DOWNLIGHT- LED			
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Е	DECORATIVE PENDANT- SMALL			
F	DECORATIVE PEDANT- MEDIUM			
G	LED STRIP LIGHT AT BATH ROOMS			
K	WALL MOUNTED SCONCE			
ST	UTILITY LIGHT			
ST1	UTILITY LIGHT			





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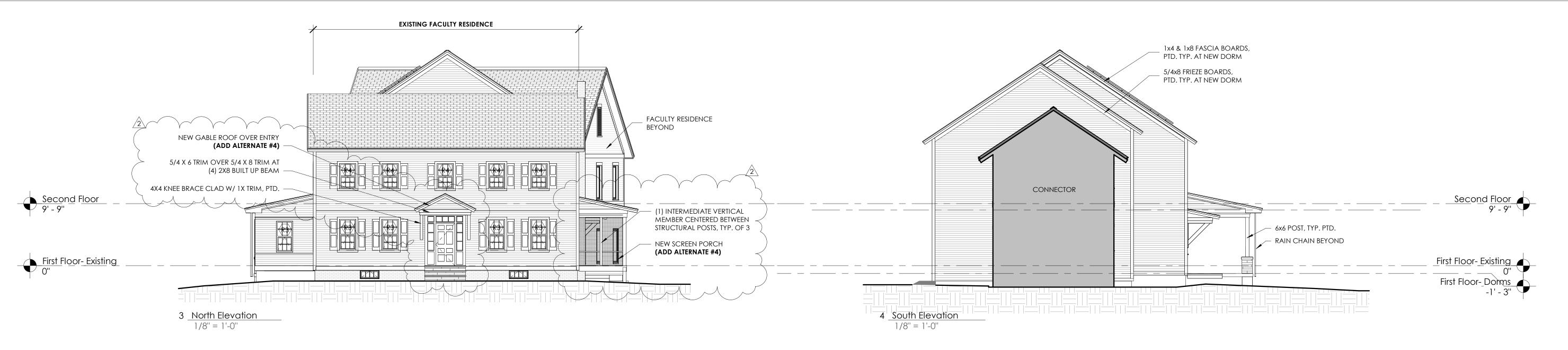
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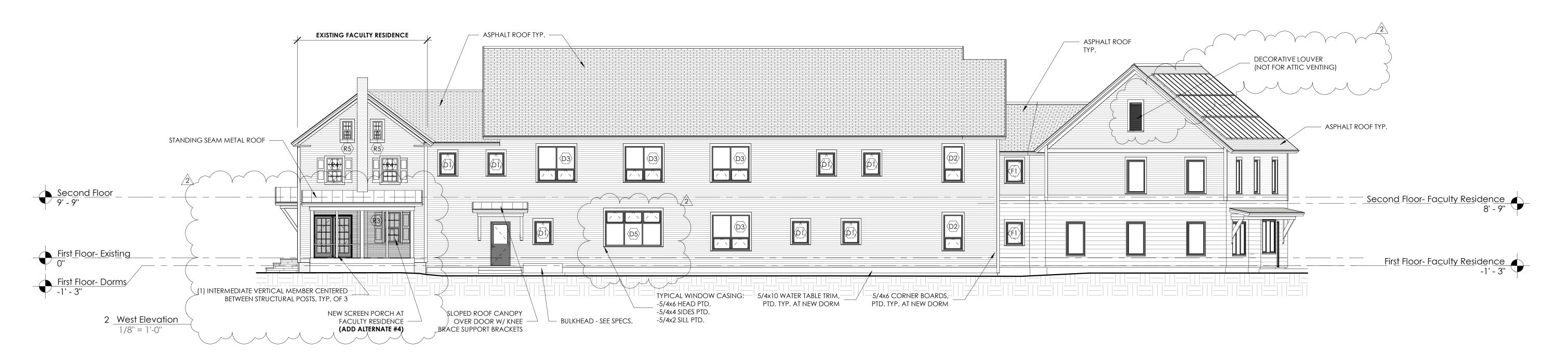
KUA KILTON/WELCH DORMITORIES

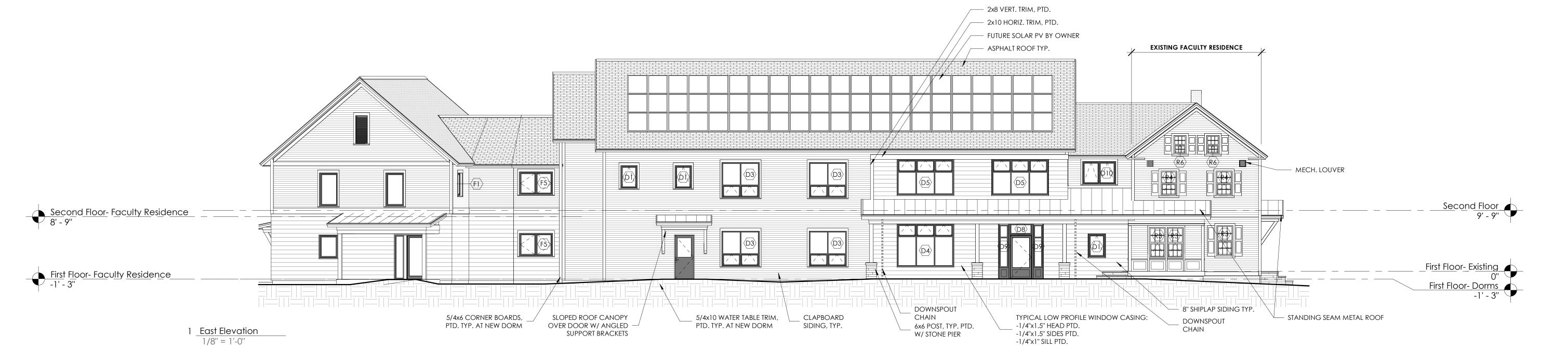
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WELCH SECOND FLOOR RCP

AW-3.3









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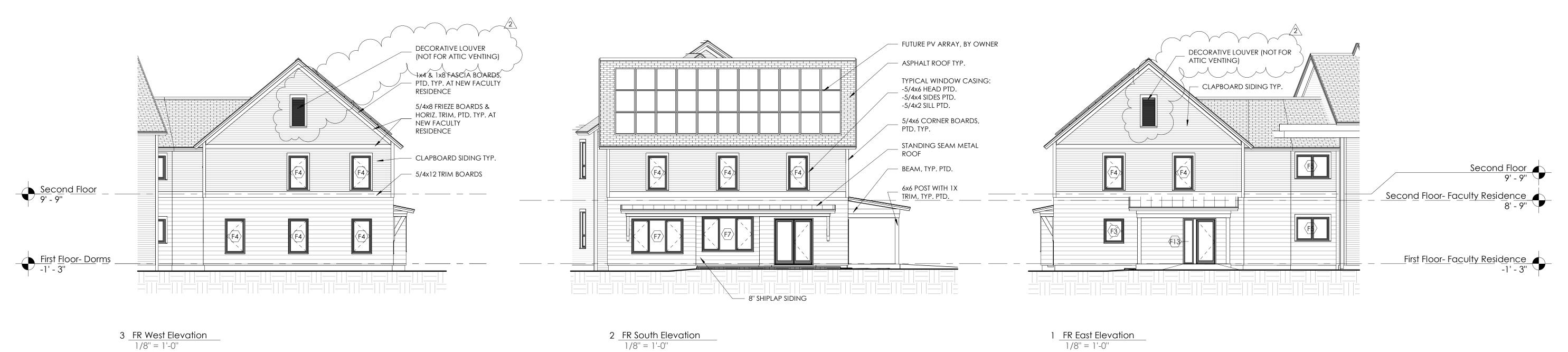
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KUA
KILTON/WELCH
DORMITORIES

Main Street, Meriden, NH 03770

WELCH DORM ELEVATIONS

AW-4.1





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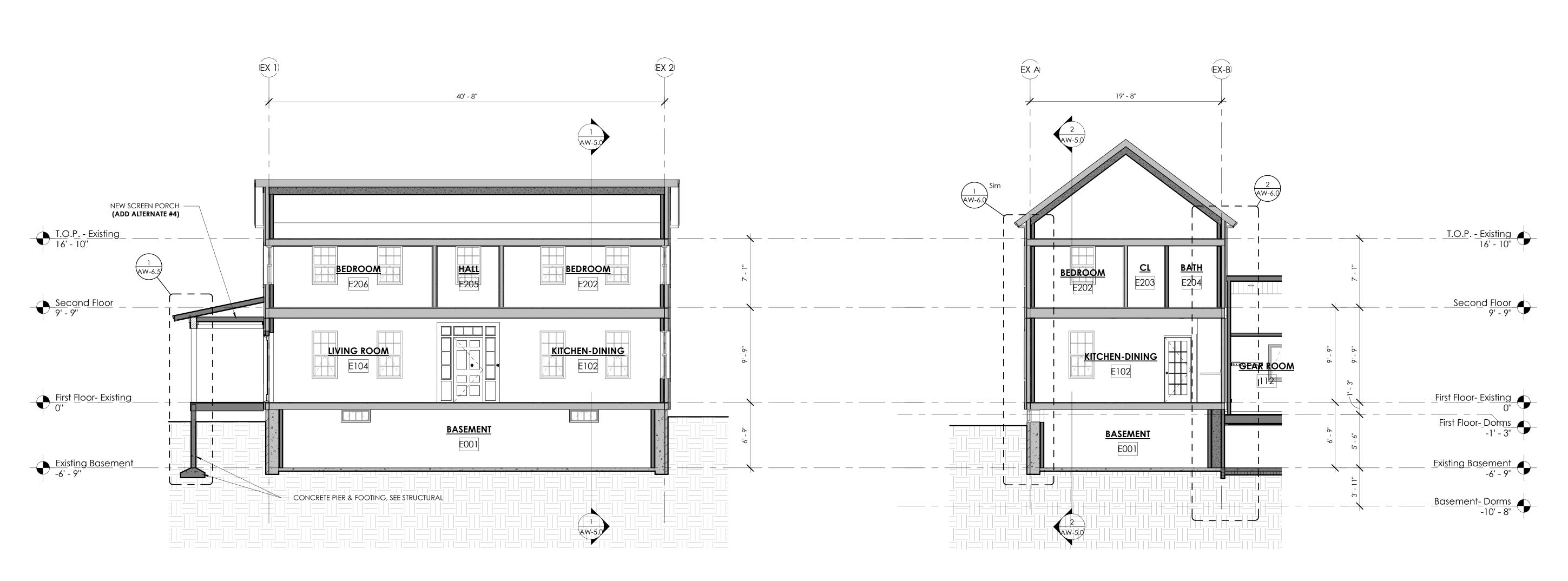
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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH FACULTY RESIDENCE ELEVATIONS

AW-4.2



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.
- SEE AW-0.5 FOR ASSEMBLY TYPE INFORMATION.
 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

AW-5.0

SECTIONS AT

VERMONT INTEGRATED ARCHITECTURE, PC

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Date Description

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KILTON/WELCH

DORMITORIES

Main Street, Meriden, NH 03770

BUILDING

EXISTING

WELCH

Drawn: JG

REVISIONS:

KUA

Checked: SR

calvinr@rearchcompany.com

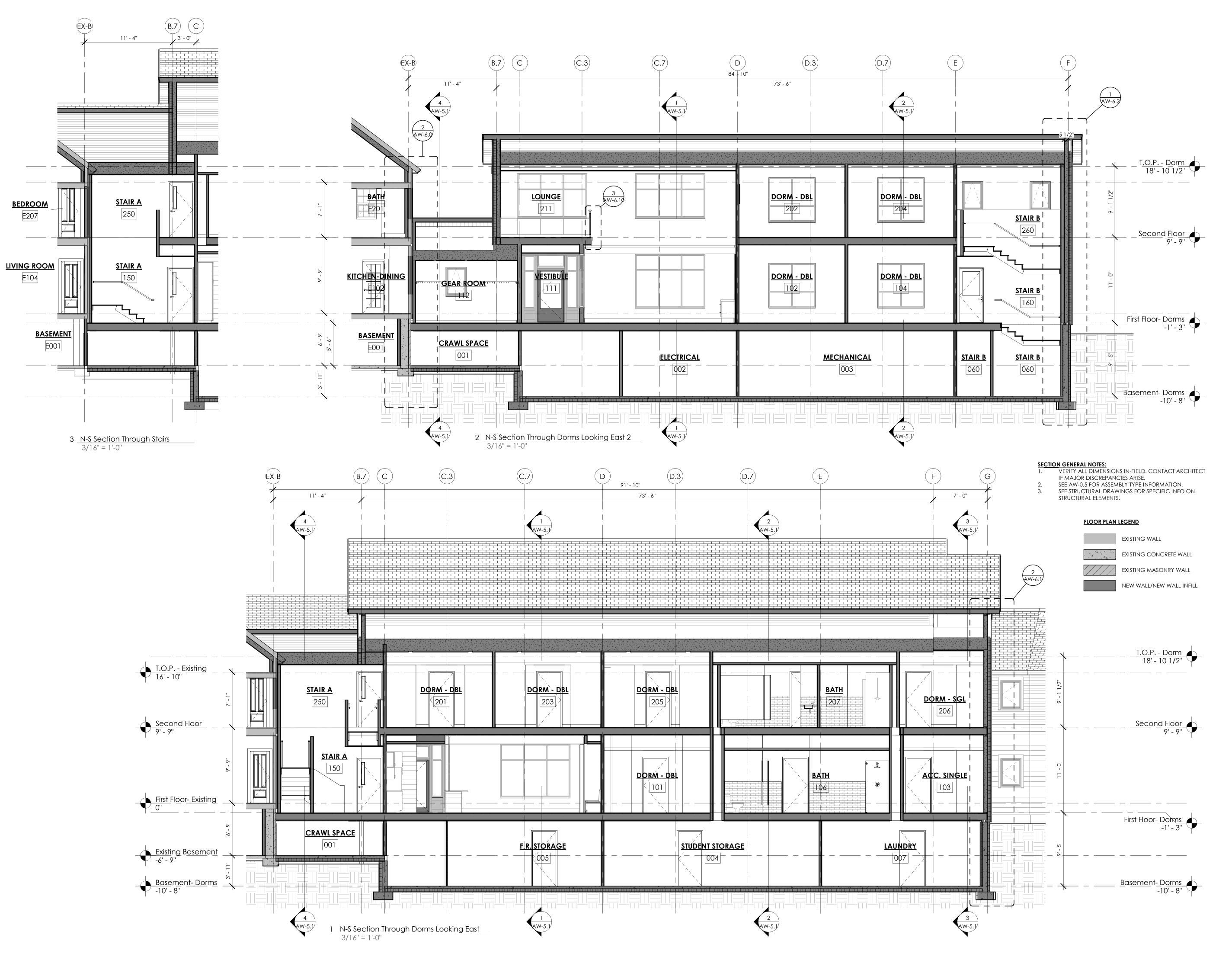
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2 E-W Section Through Existing Building
3/16" = 1'-0"







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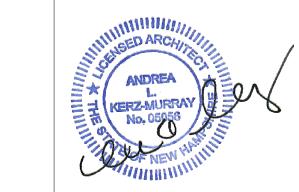
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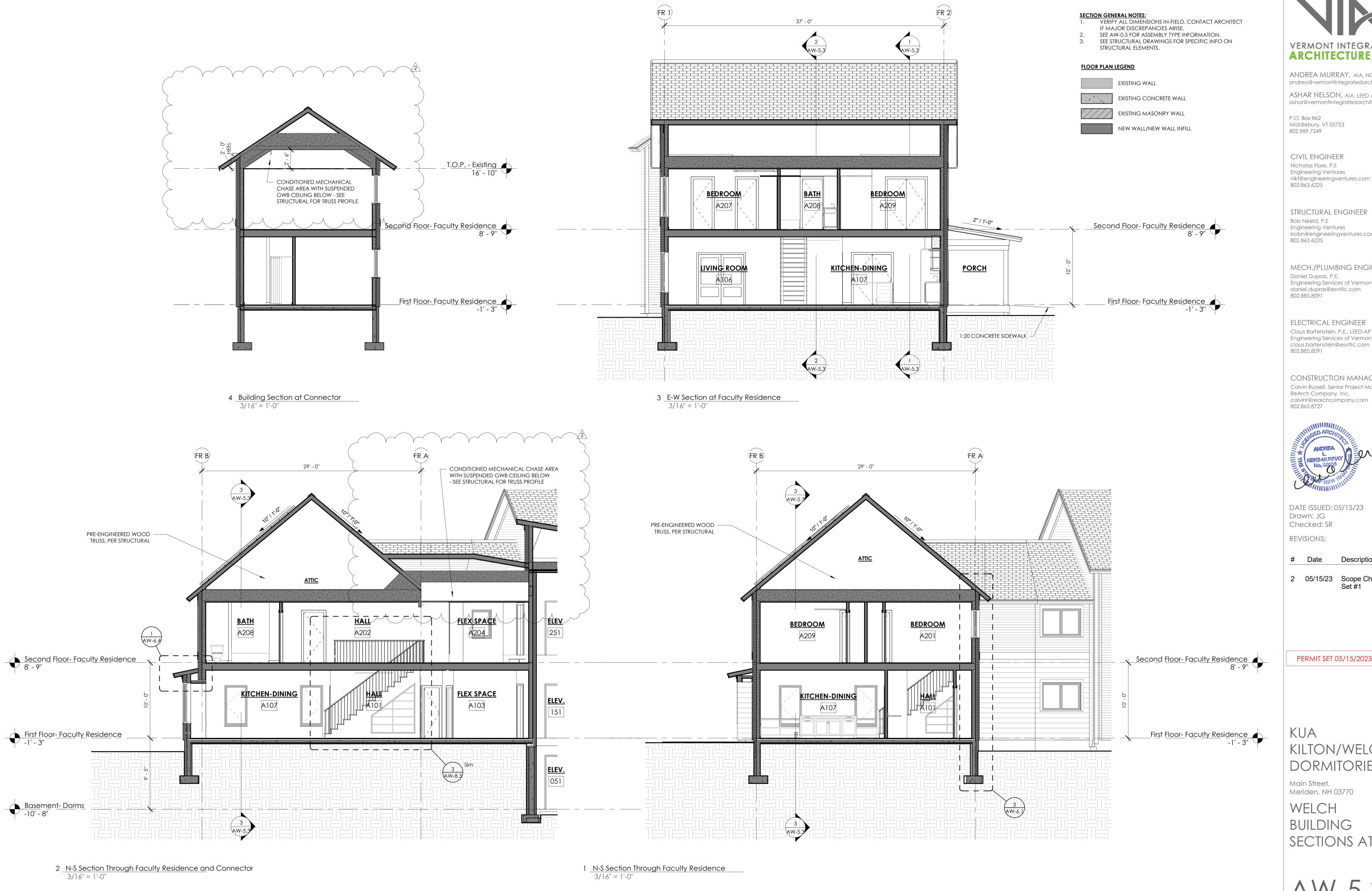
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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH
BUILDING
SECTIONS AT NEW

AW-5.2



VERMONT INTEGRATED ARCHITECTURE, PC

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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH BUILDING SECTIONS AT NEW

AW-5.3

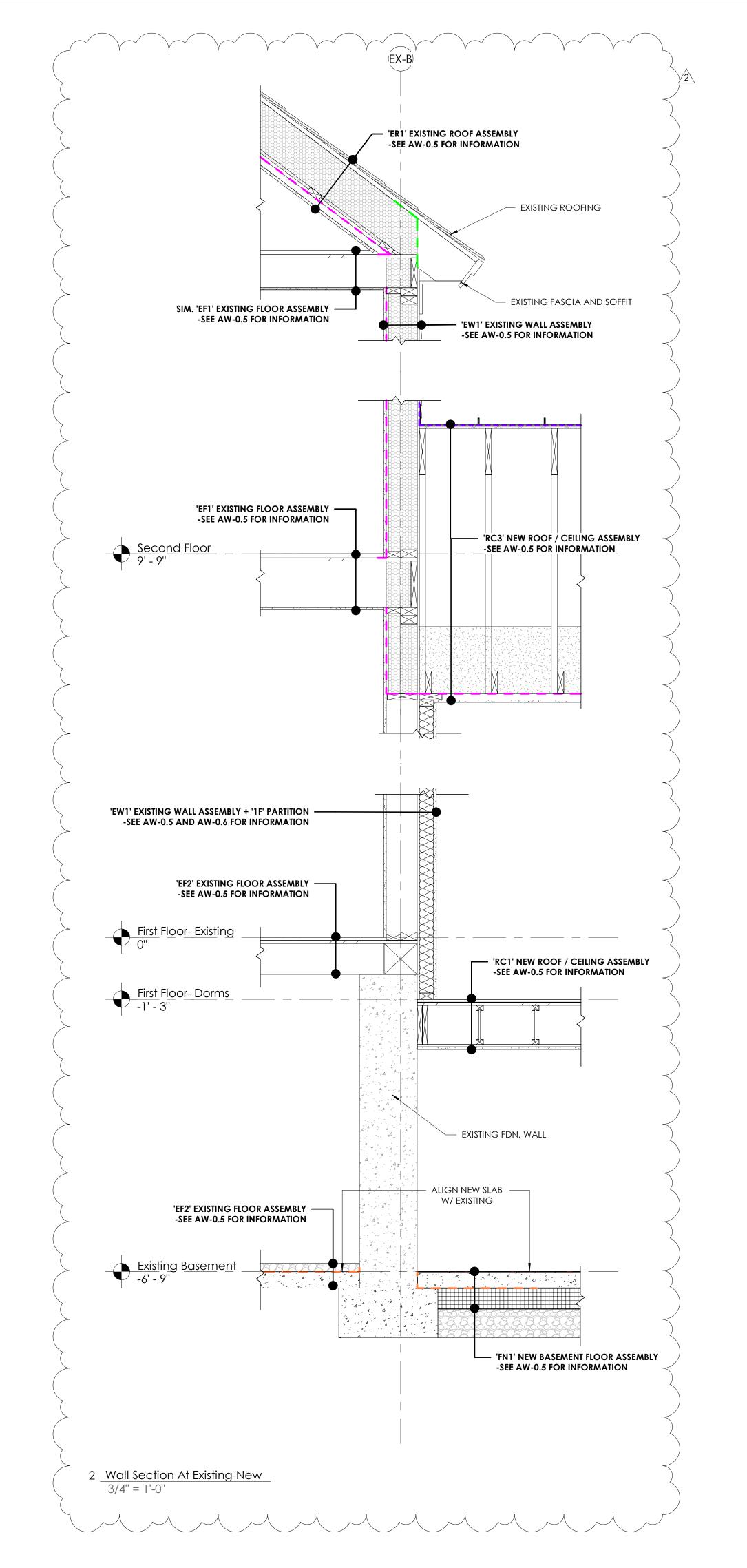
SECTION DETAILS AND MATERIALS LEGEND WEATHER RESISTIVE BARRIER (WRB)/ -----DRAINAGE PLANE STONE FILL — — — — VAPOR CONTROL LAYER (VCL) AIR CONTROL LAYER (ACL) UNDER SLAB VAPOR CONTROL LAYER **EARTH** TAPE OR SELF ADHERING WATERPROOFING MEMBRANE (SAWM) AT EDGES/ JOINTS/ INTERSECTIONS CLOSED CELL SPRAY FOAM INSULATION WOOD FINISH GRADE RIGID FOAM INSULATION FILL INSULATION DIMENSIONAL LUMBER

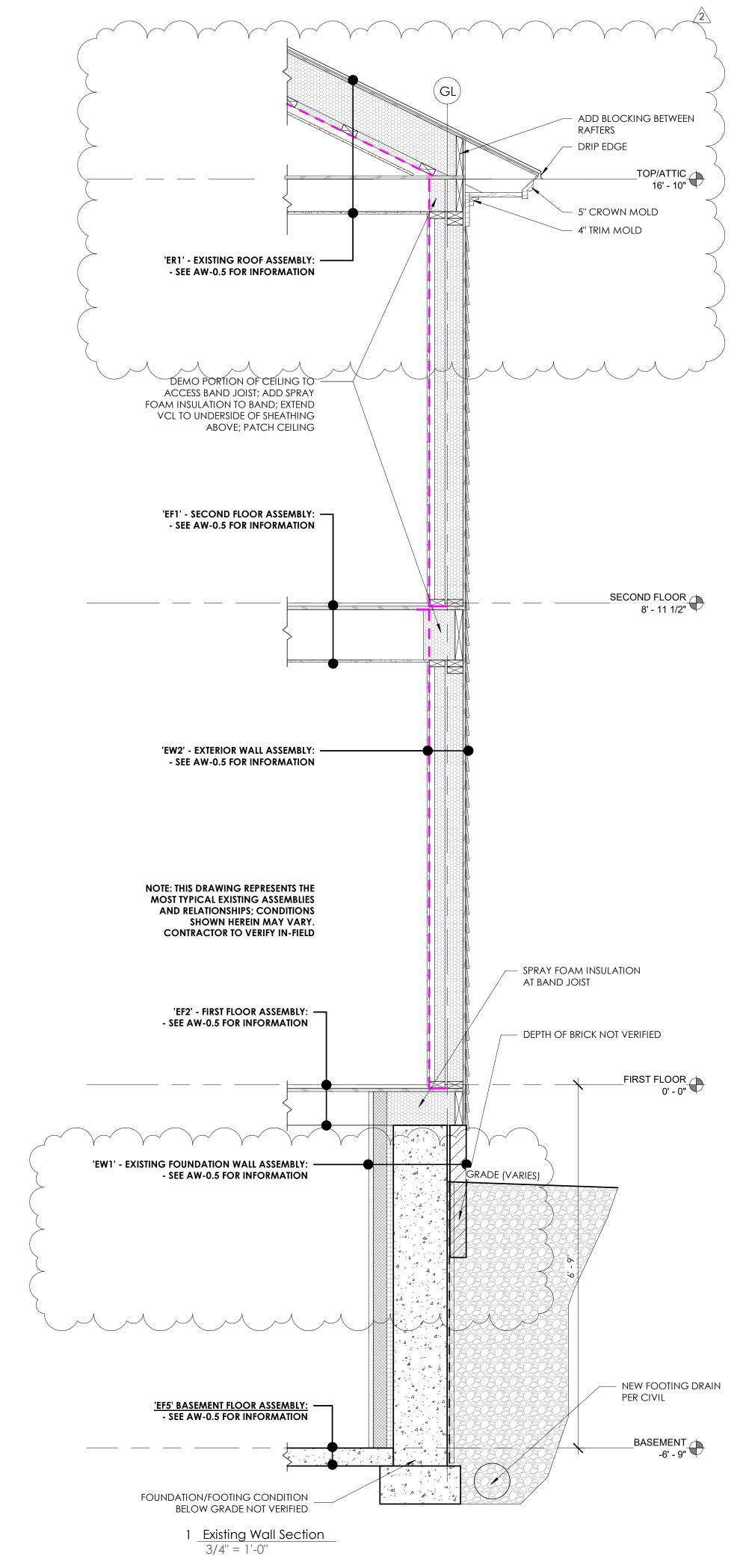
BLOCKING

PLYWOOD

RIGID MINERAL WOOL INSULATION

BATT INSULATION







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" Date Decemporary

2 05/15/23 Scope Changes to Bid

PERMIT SET 05/15/2023

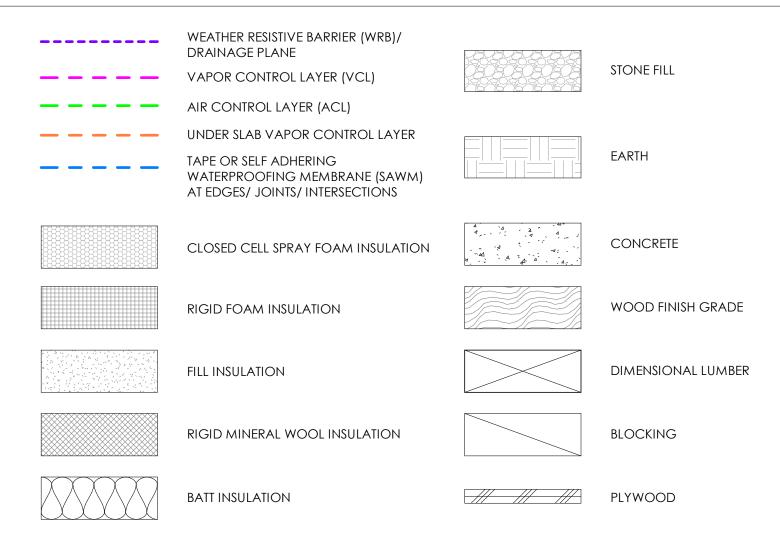
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KILTON/WELCH
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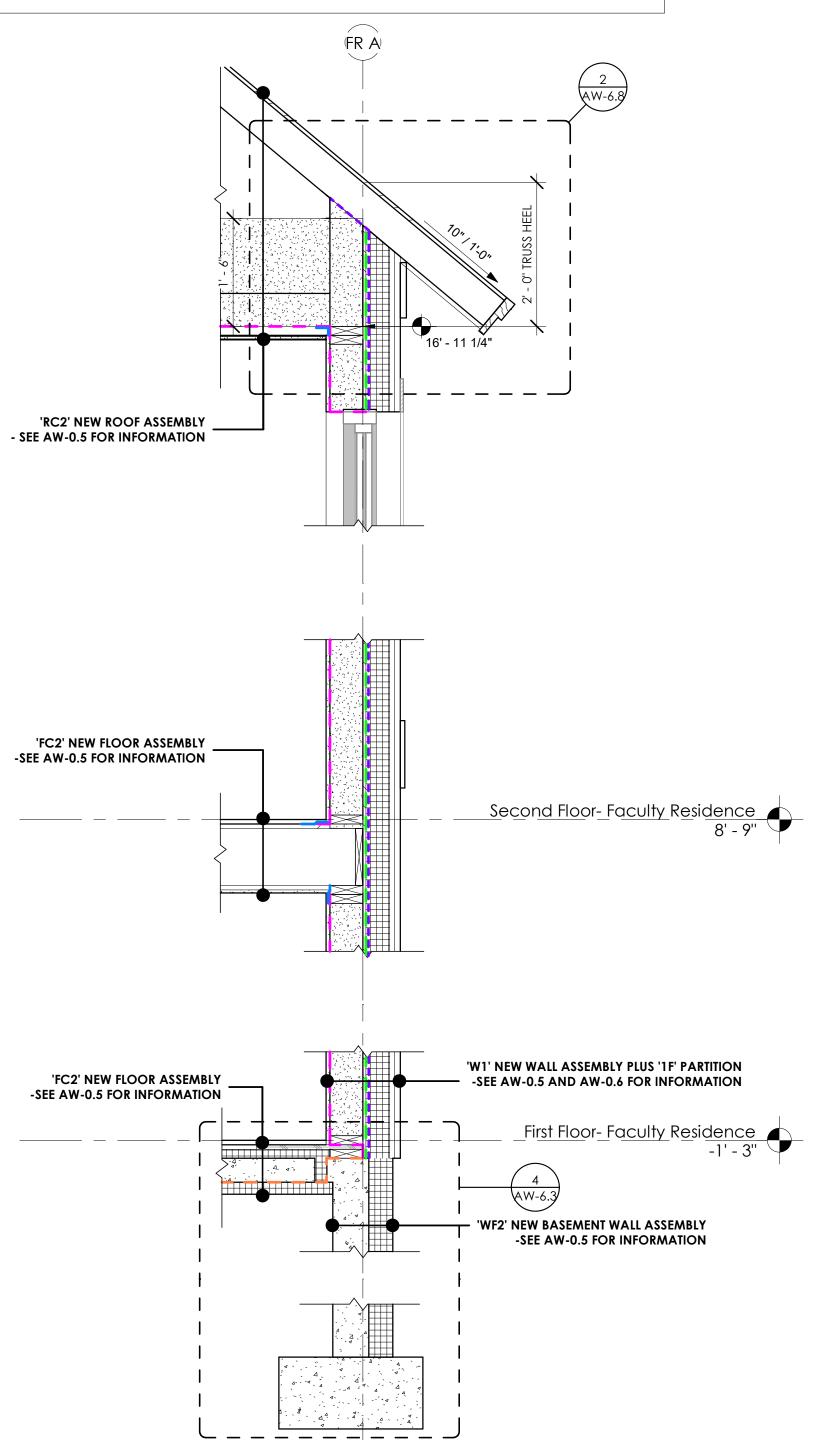
Main Street, Meriden, NH 03770

WELCH
EXTERIOR WALL
SECTIONS AT
EXISTING

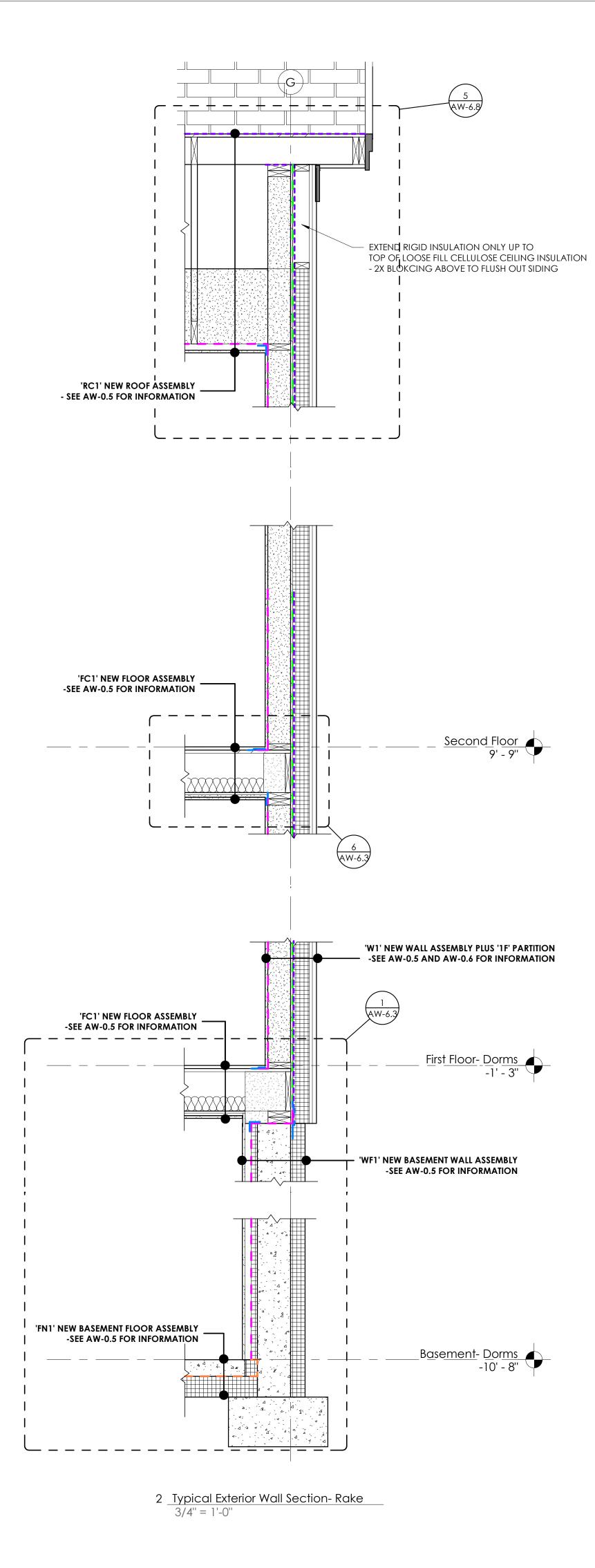
AW-6.0

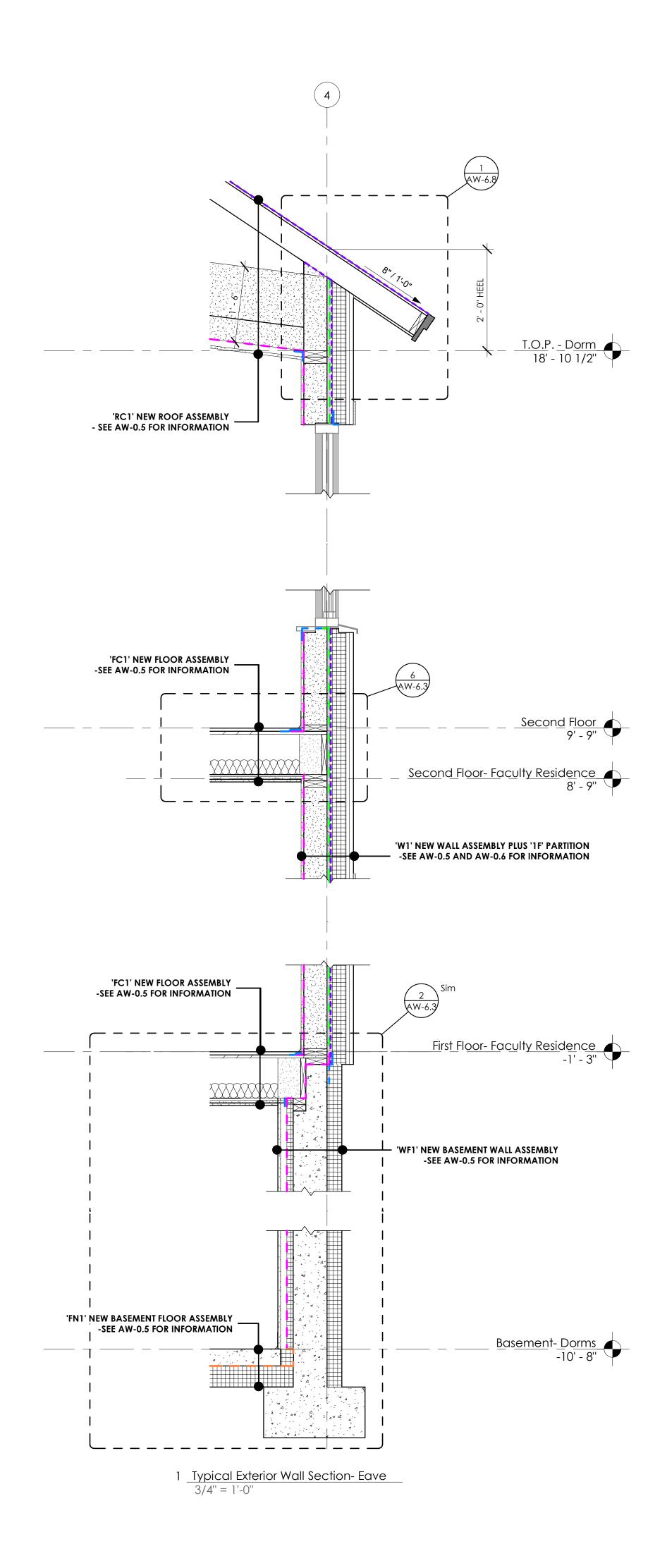
SECTION DETAILS AND MATERIALS LEGEND













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

REVISIONS:

Date Description

PERMIT SET 05/15/2023

KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH
EXTERIOR WALL
SECTIONS AT NEW

AW-6.1

WEATHER RESISTIVE BARRIER (WRB)/ DRAINAGE PLANE VAPOR CONTROL LAYER (VCL) AIR CONTROL LAYER (ACL) UNDER SLAB VAPOR CONTROL LAYER TAPE OR SELF ADHERING WATERPROOFING MEMBRANE (SAWM)

STONE FILL

EARTH

AT EDGES/ JOINTS/ INTERSECTIONS

CLOSED CELL SPRAY FOAM INSULATION

CONCRETE

OAM INSULATION CONCRETE

ON WOOD FINISH GRADE

RIGID FOAM INSULATION

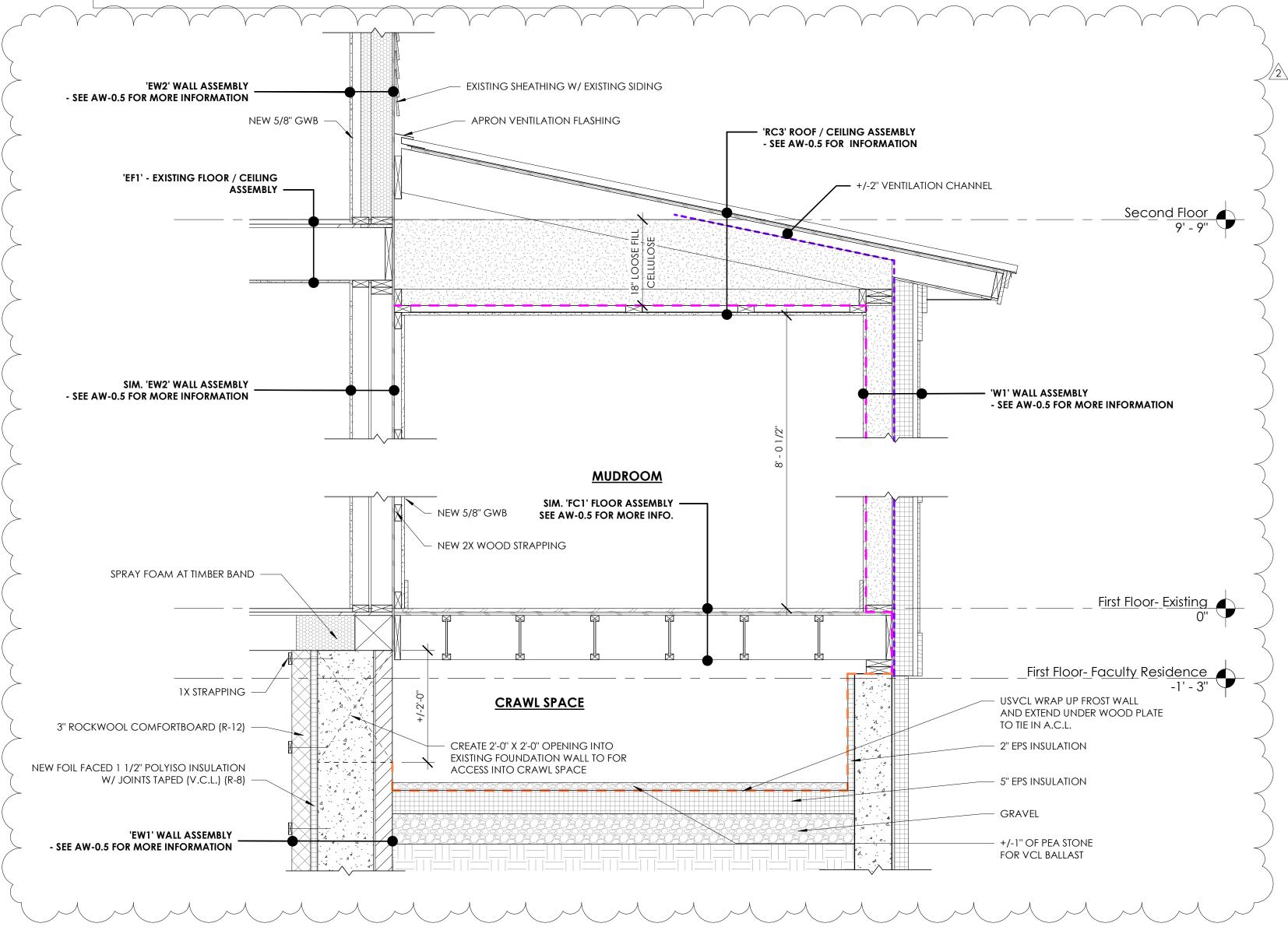
WOOD FINISH GRADE

FILL INSULATION

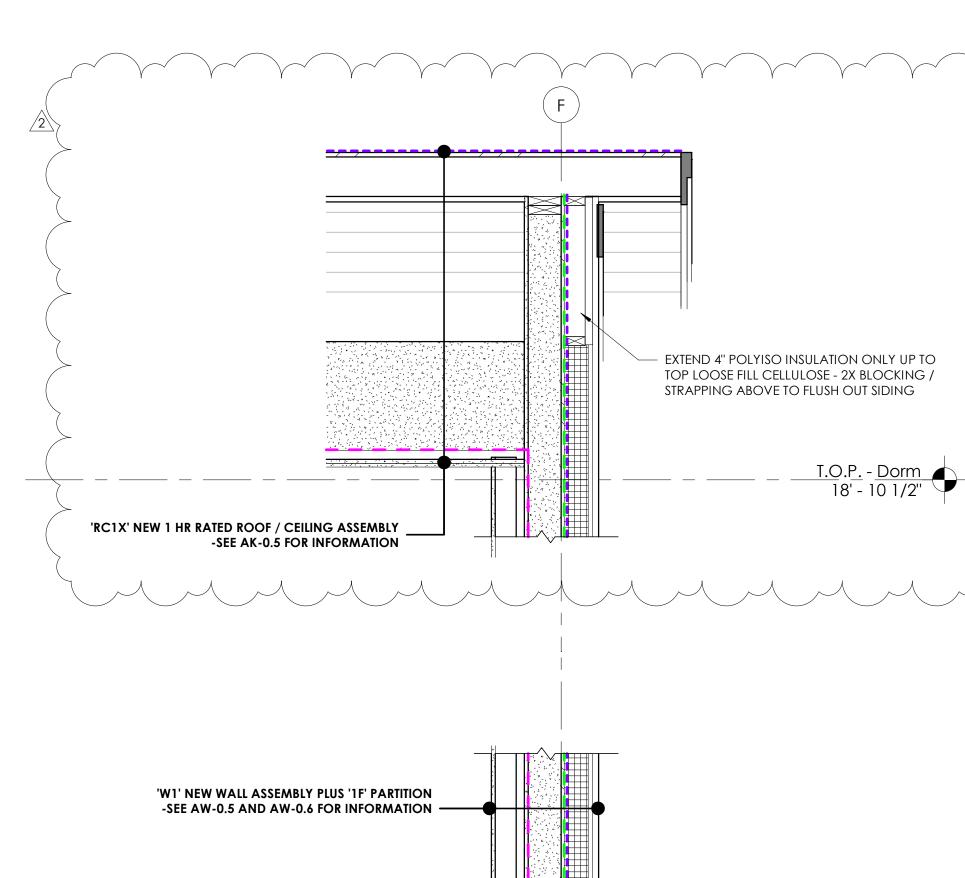
DIMENSIONAL LUMBER

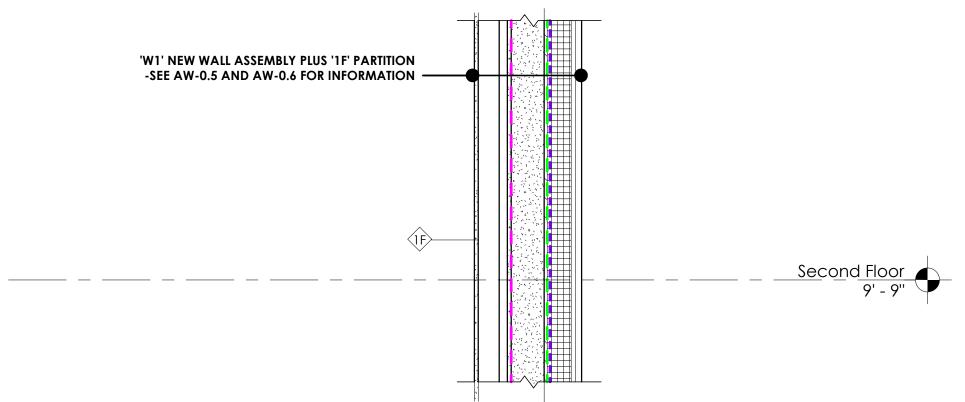
RIGID MINERAL WOOL INSULATION BLOCKING

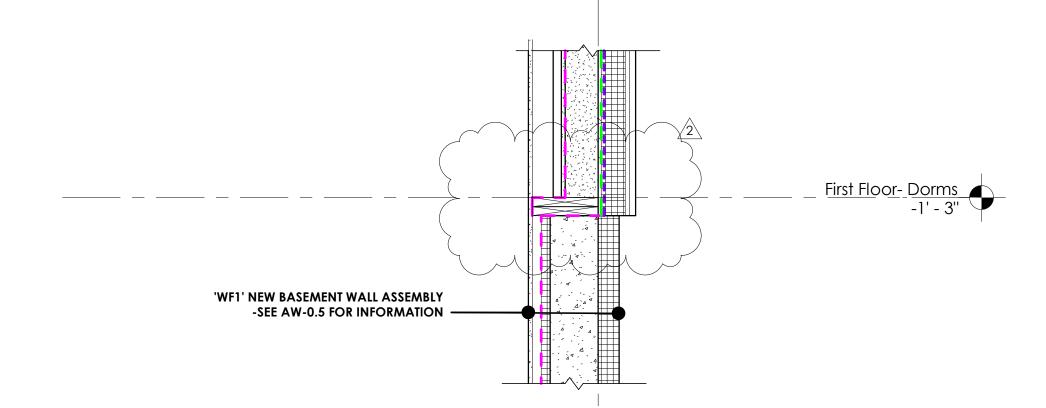
BATT INSULATION PLYWOOD

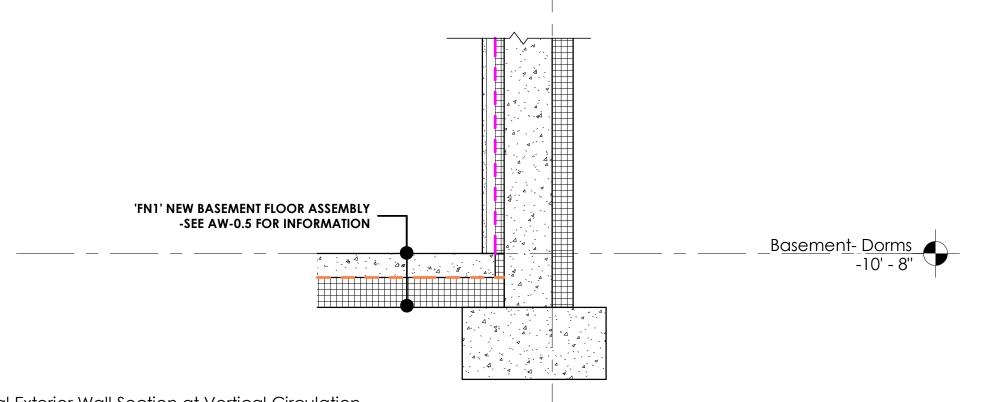


2 Wall Section @ F.R. Mudroom 3/4" = 1'-0"









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

VERMONT INTEGRATED ARCHITECTURE, PC

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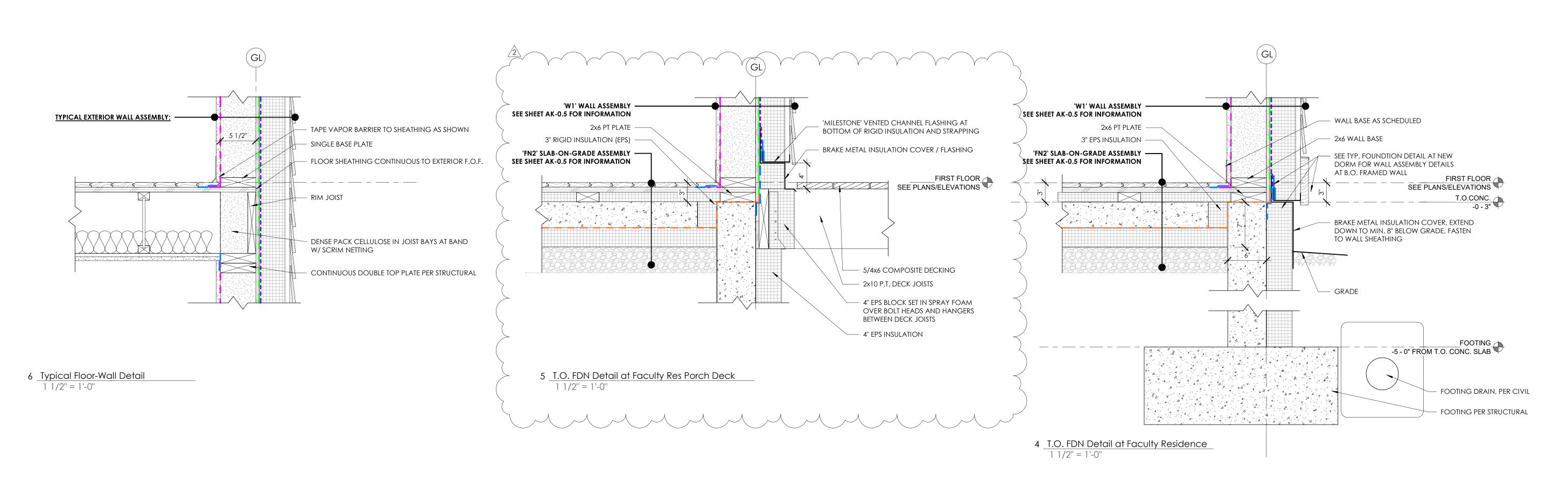
PERMIT SET 05/15/2023

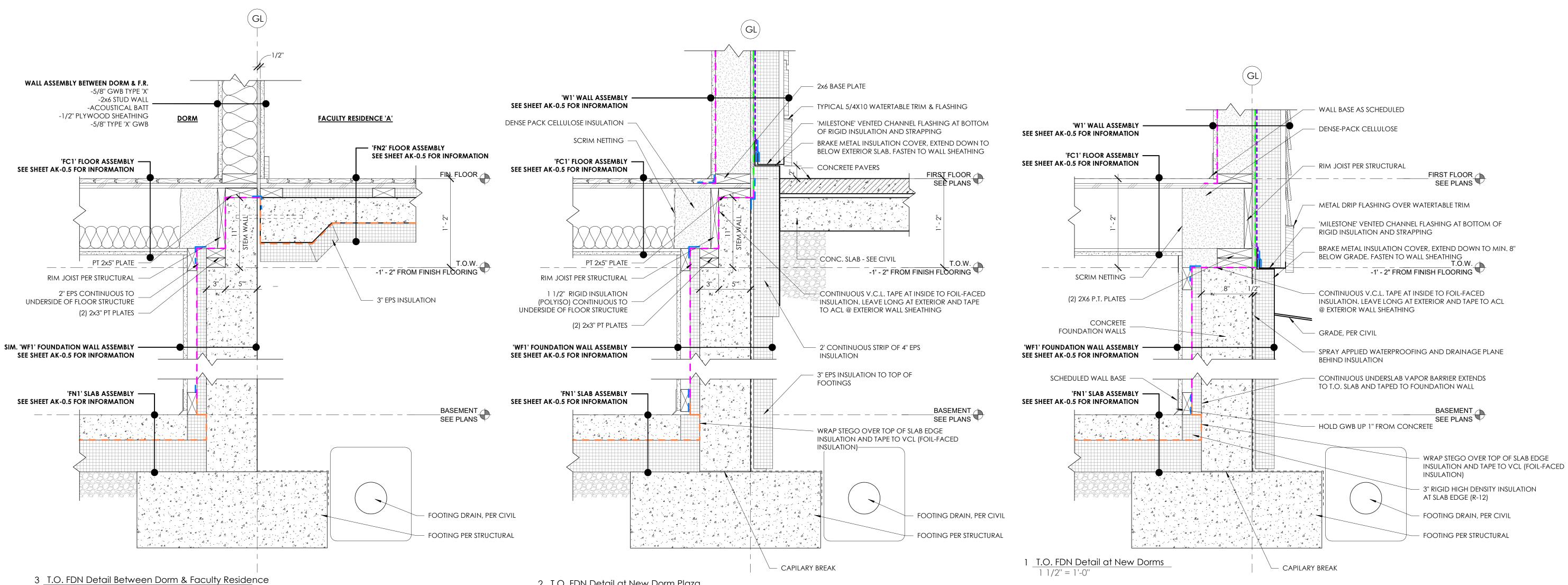
KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH
EXTERIOR WALL
SECTIONS AT NEW

AW-6.2





2 T.O. FDN Detail at New Dorm Plaza

1 1/2" = 1'-0"

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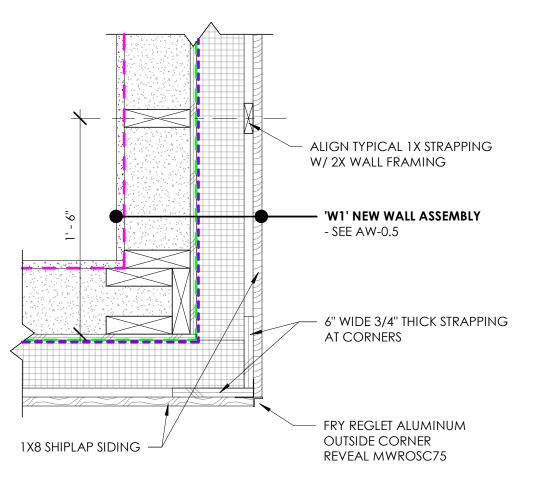
PERMIT SET 05/15/2023

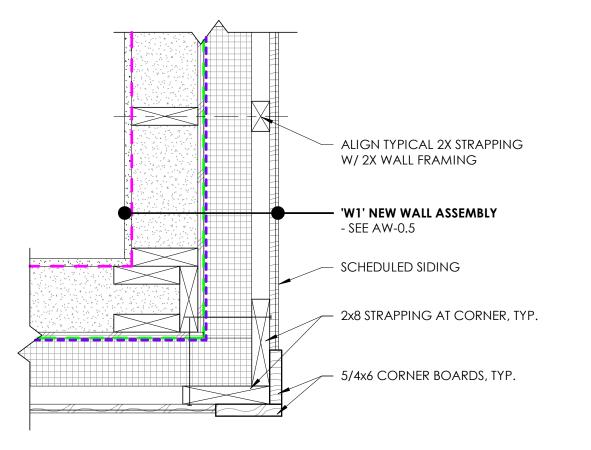
KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH DETAILS

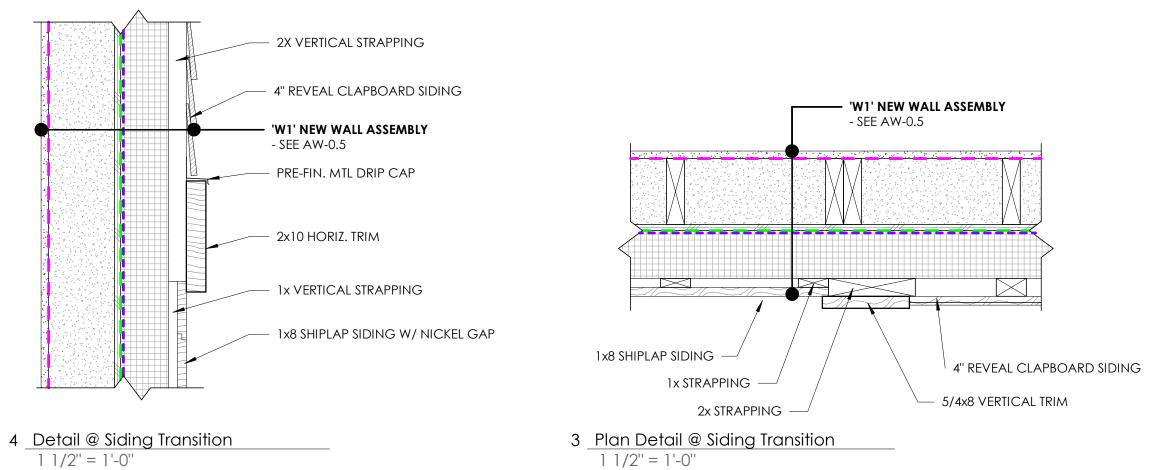
1 1/2" = 1'-0"

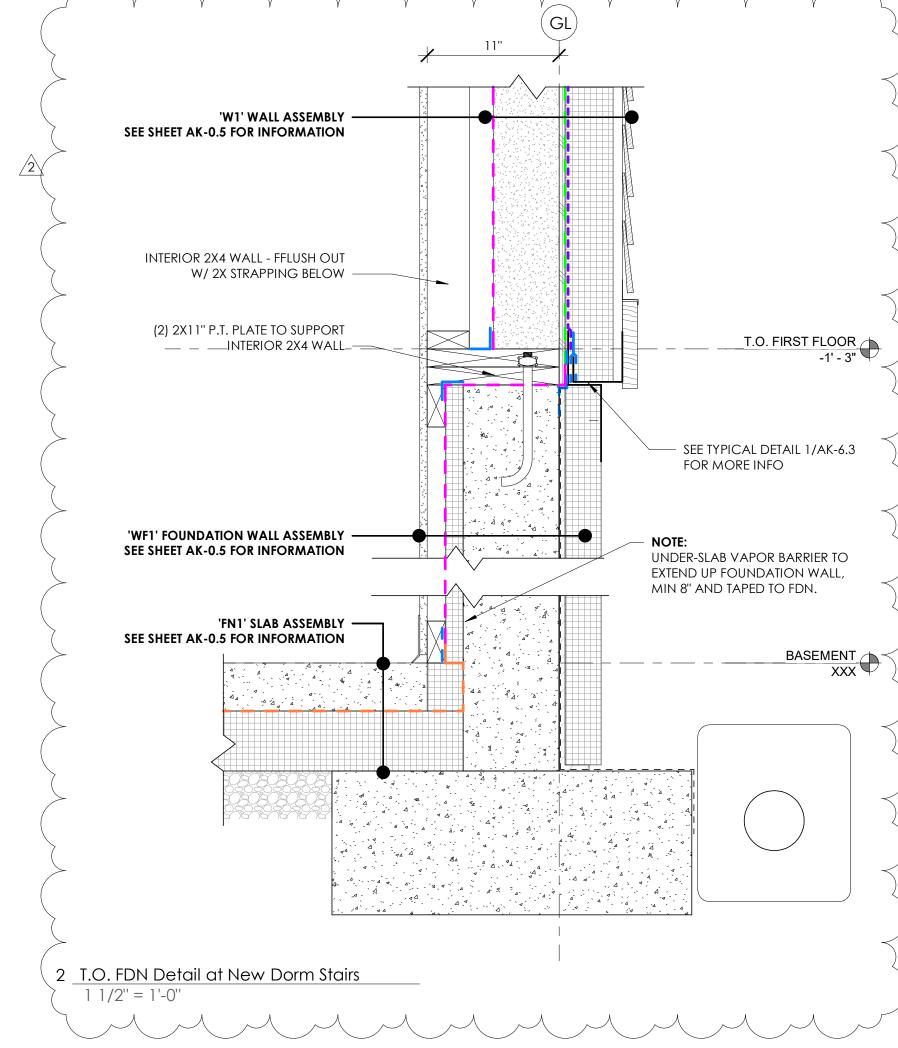


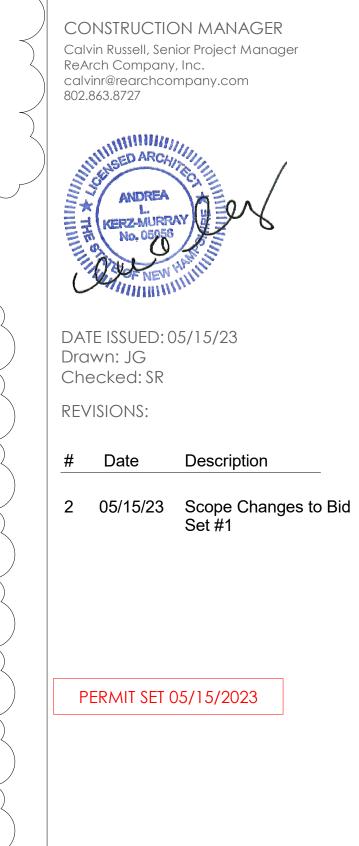


TYP. SHIPLAP SIDING CORNER DETAIL TYP. CLAPBOARD SIDING CORNER DETAIL

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







KUA

Main Street,

WELCH

DETAILS

Meriden, NH 03770

KILTON/WELCH

DORMITORIES

ARCHITECTURE, PC

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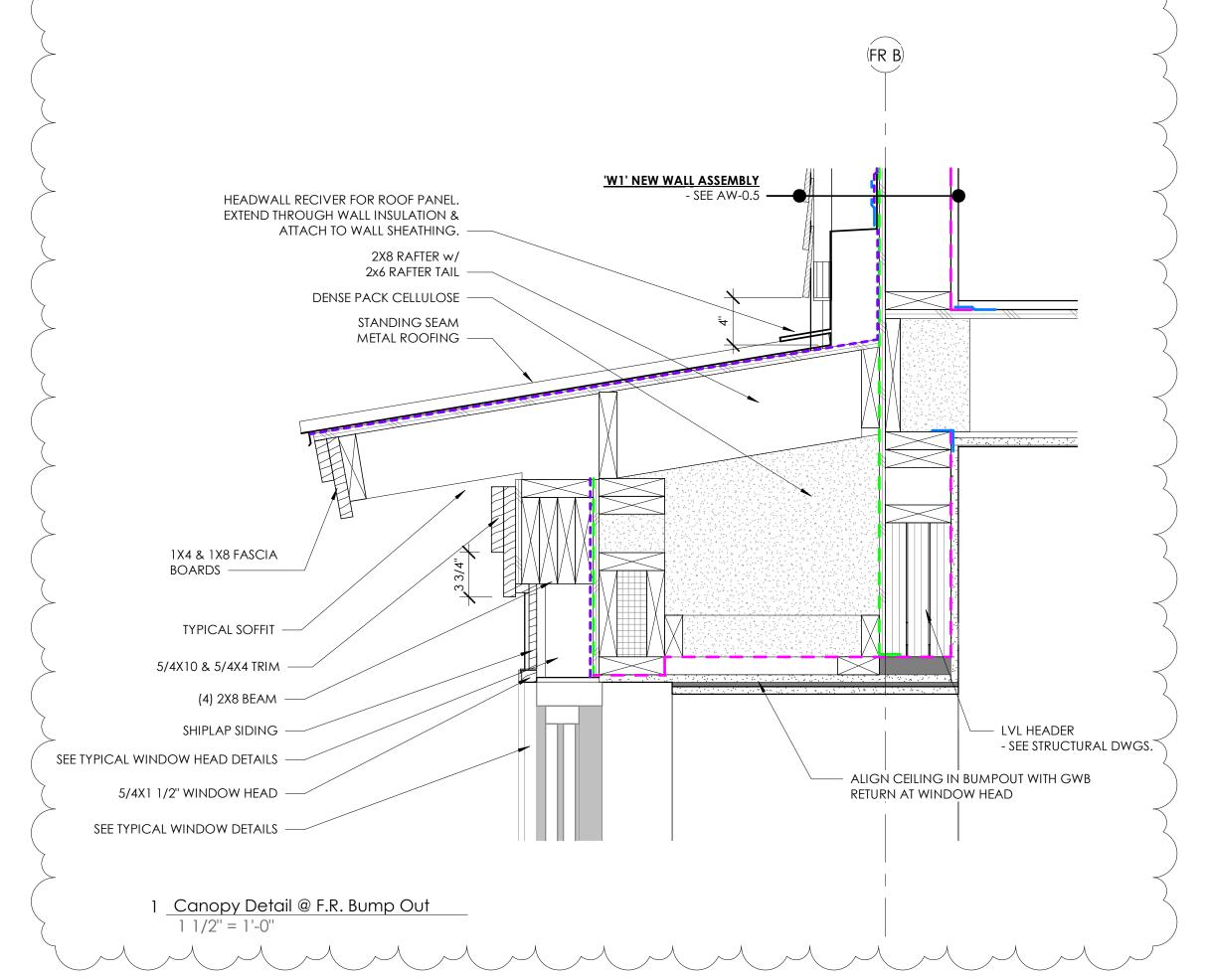
802.885.8091

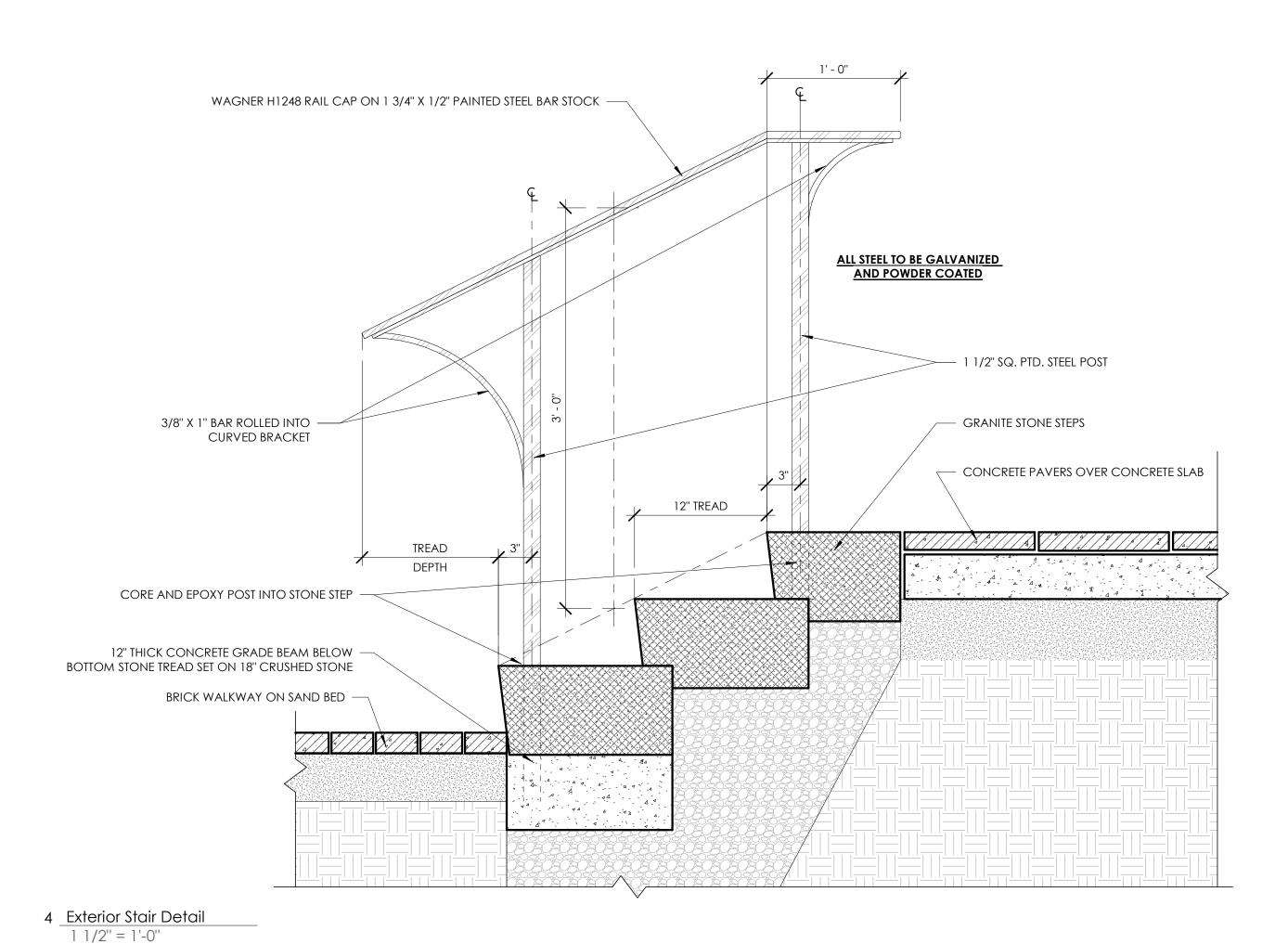
802.885.8091

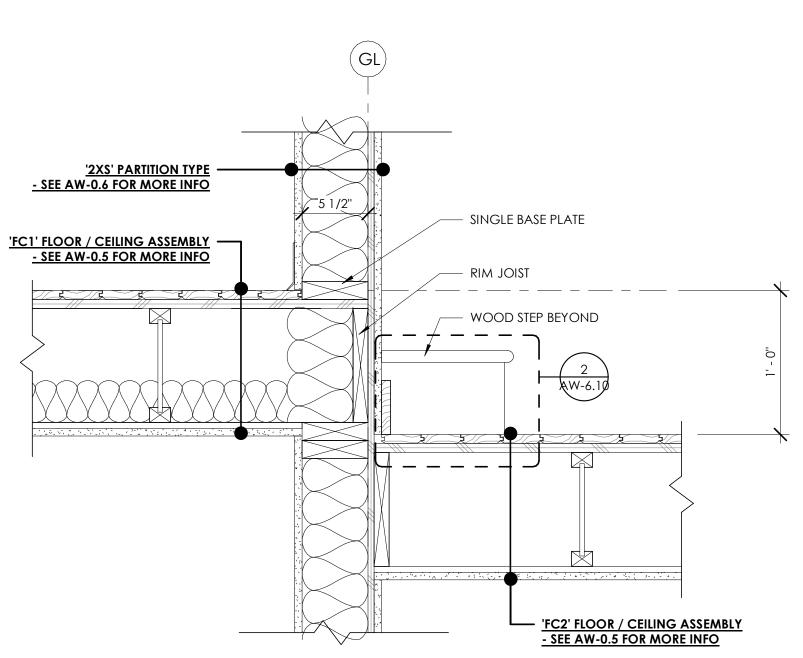
Daniel Dupras, P.E.

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

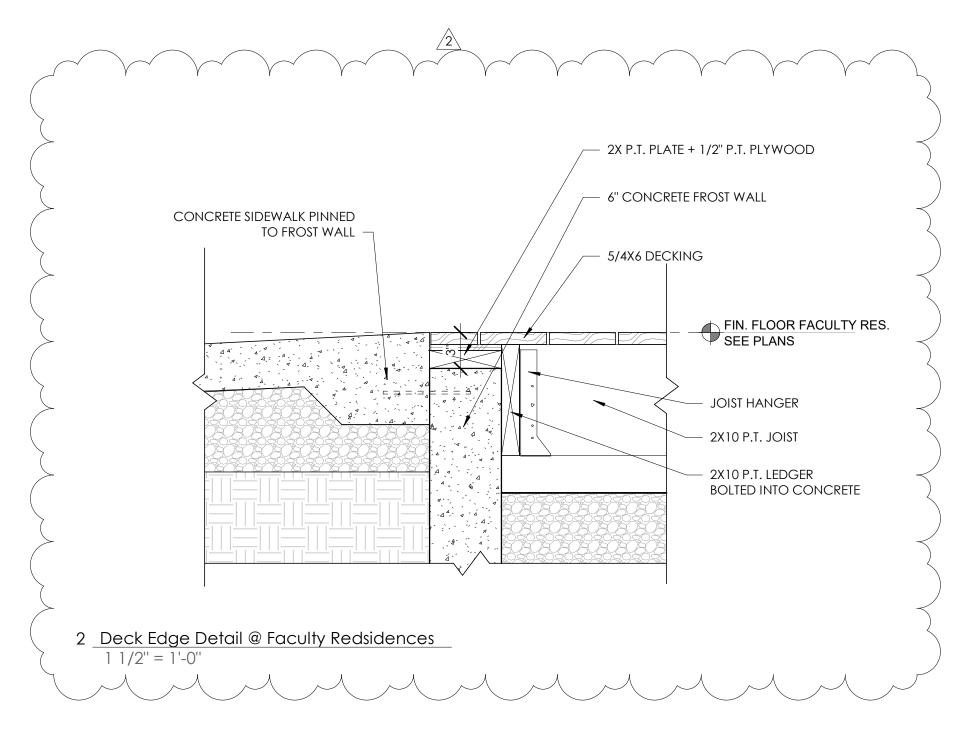
ashar@vermontintegratedarchitecture.com

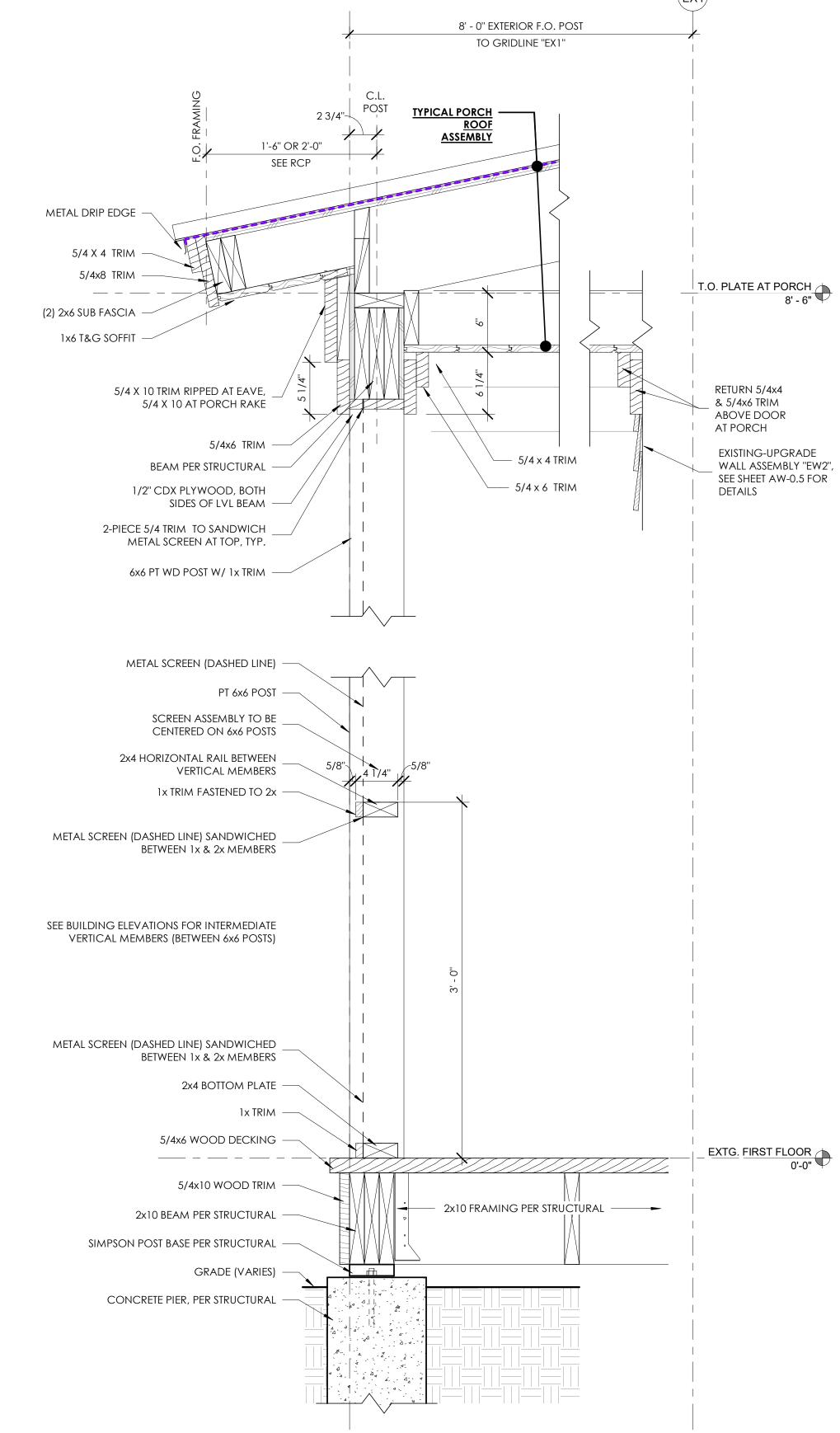












1 Faculty Res. Screen Porch Section Detail

1 1/2" = 1'-0"



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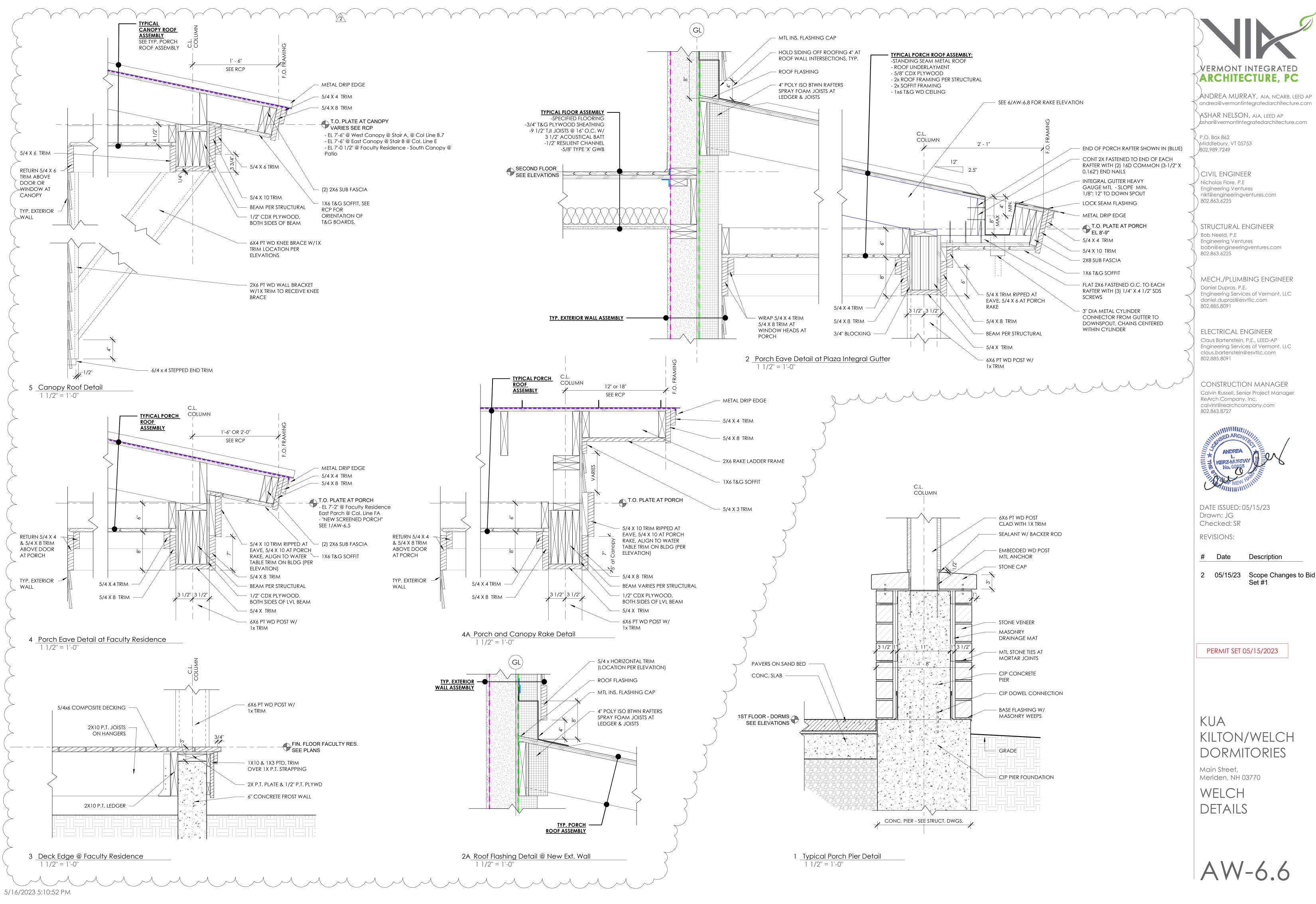
2 05/15/23 Scope Changes to Bid Set #1

PERMIT SET 05/15/2023

KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH DETAILS



XERMONT INTEGRATED ARCHITECTURE, PC

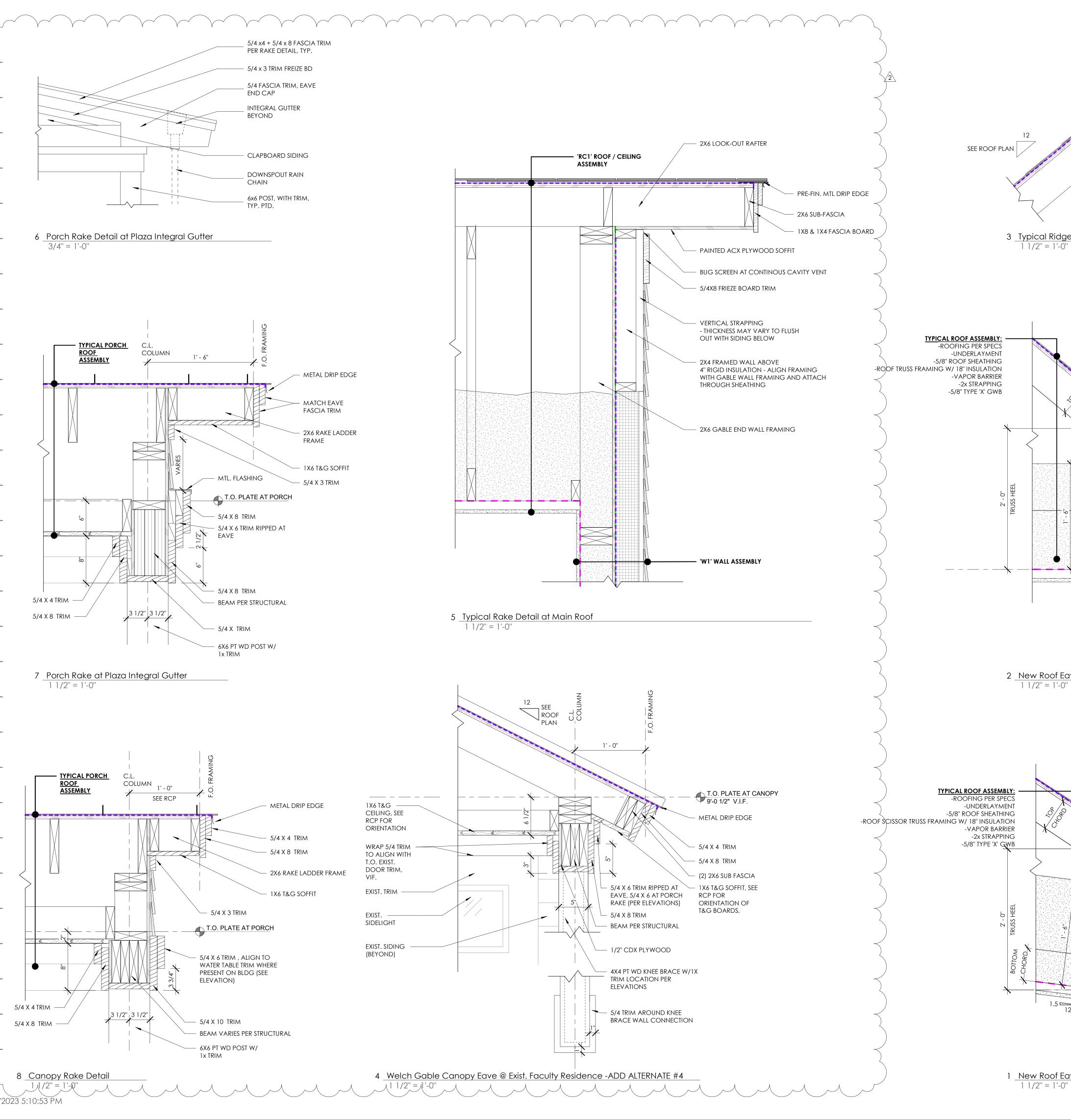
Engineering Services of Vermont, LLC

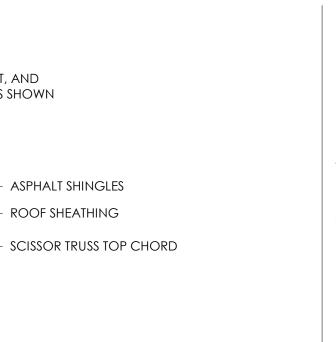
Engineering Services of Vermont, LLC

CONSTRUCTION MANAGER

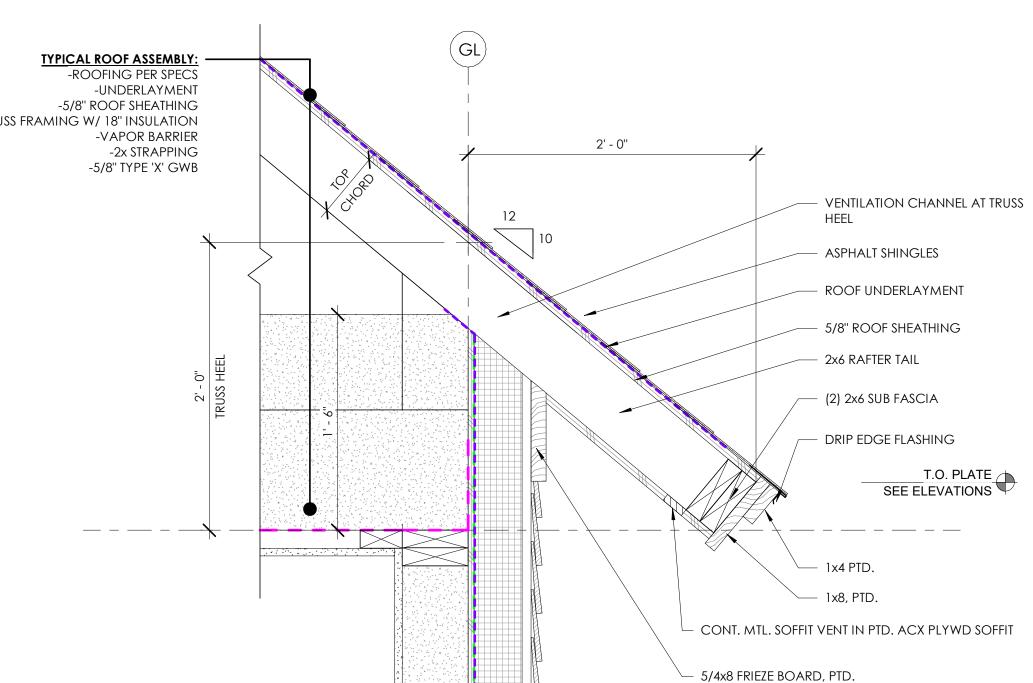


KILTON/WELCH





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

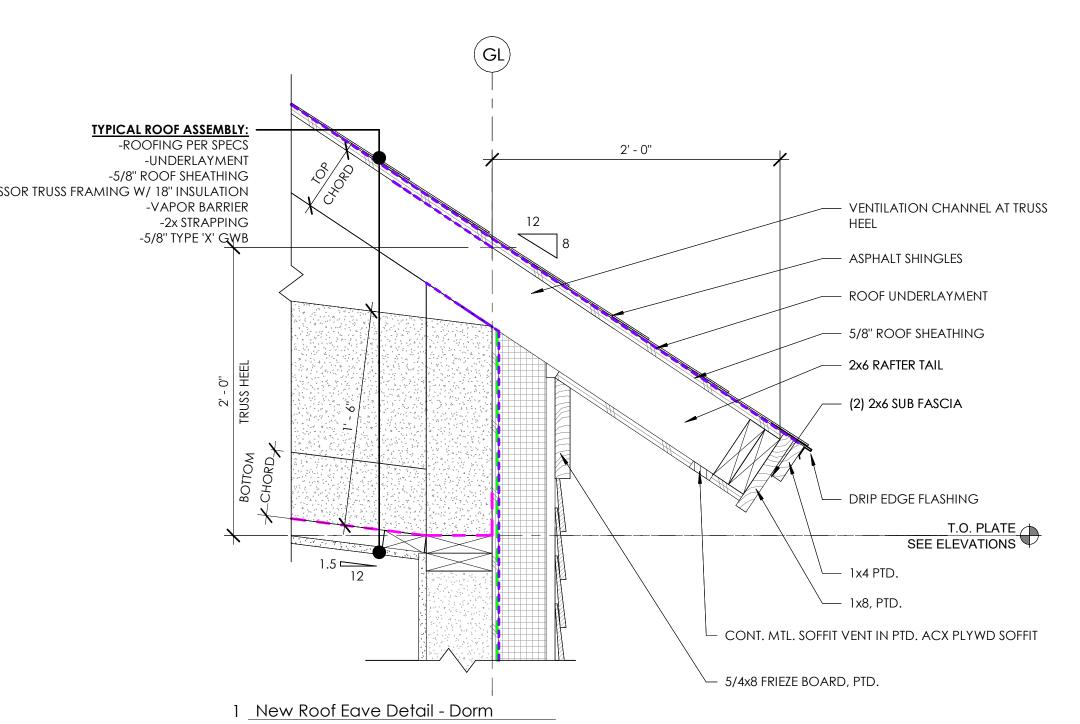


CONTINUOUS VENTED RIDGE CAP

HOLD SHEATHING, UNDERLAYMENT, AND

ROOFING BACK 3" FROM RIDGE AS SHOWN

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



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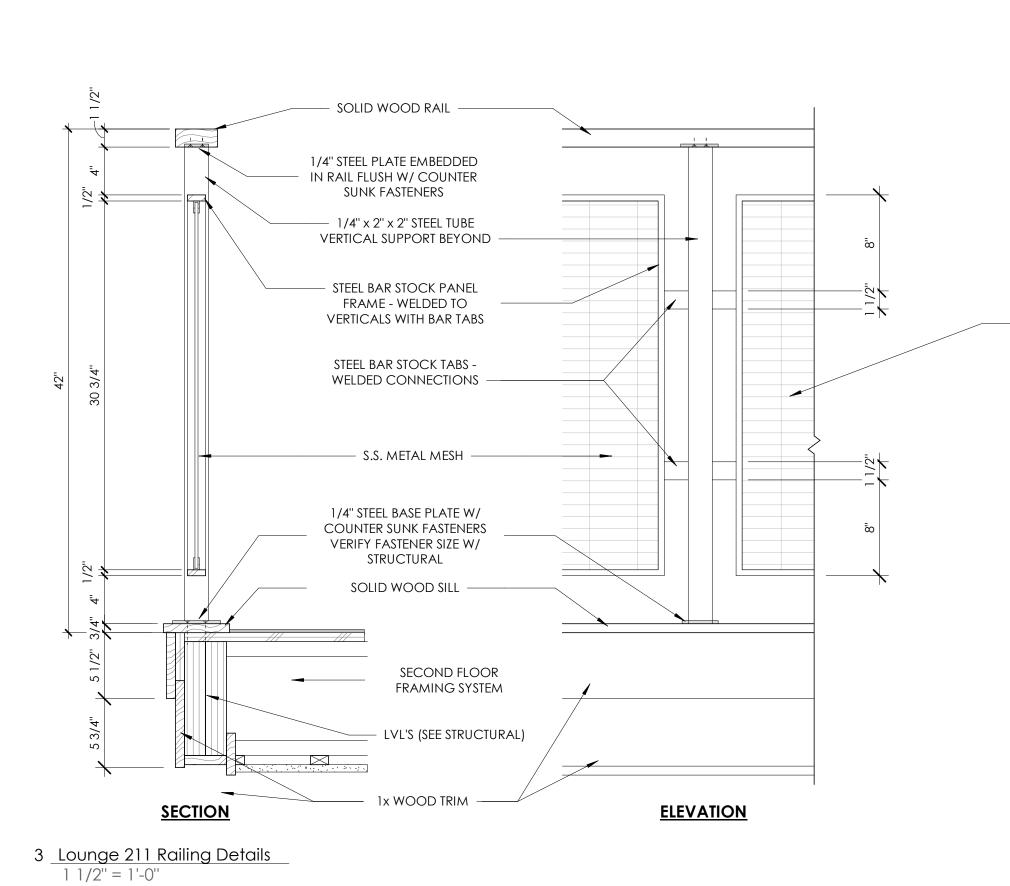
PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

Main Street, Meriden, NH 03770

WELCH ROOF DETAILS

8.6-WA



<u>Structural Performance</u>: 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.

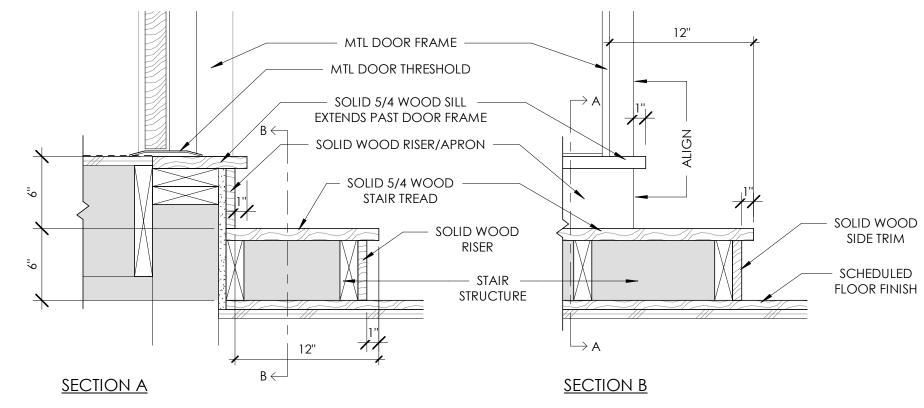
Concentrated load of 200 lbf. applied in any direction. Uniform and concentrated loads need not be assumed

to act concurrently. 2. Top Rails of Guards:

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

3. Infill Area of Guards:

a. Horizontal concentrated load of 50 lbf. applied to 1 sq. ft. at 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.



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

1/4" REVEAL AT CLG -LVL BEAM (SEE STR.) SOLID WOOD TRIM REVEAL AT COLUMN TOP COLUMN TRIM BEYOND 5/4 X 8 SOLID WOOD CAP TRIM SOLID WOOD CAP REVEAL 3/4" REVEAL TEAR-AWAY BEAD AT GWB EDGE SOLID WOOD 1X6 FRONT TRIM -LINE OF BASE BEYOND -SOLID WOOD 1X TRIM TO OVERLAP FRONT TRIM TEAR-AWAY BEAD 5/8" REVEAL 5/4 X 8 BASE TEAR-AWAY BEAD AT ATTACHED GWB EDGE DIRECTLY TO 5/8" GWB STUDS SOLID WOOD 1X6 BACK TRIM (RUNS FULL COLUMN HEIGHT) C. HALF WALL A. COLUMN PLAN B. COLUMN PLAN AT HALF WALL ABOVE HALF WALL SECTION

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

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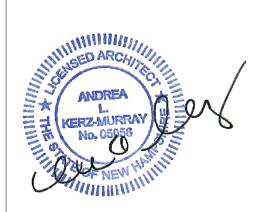
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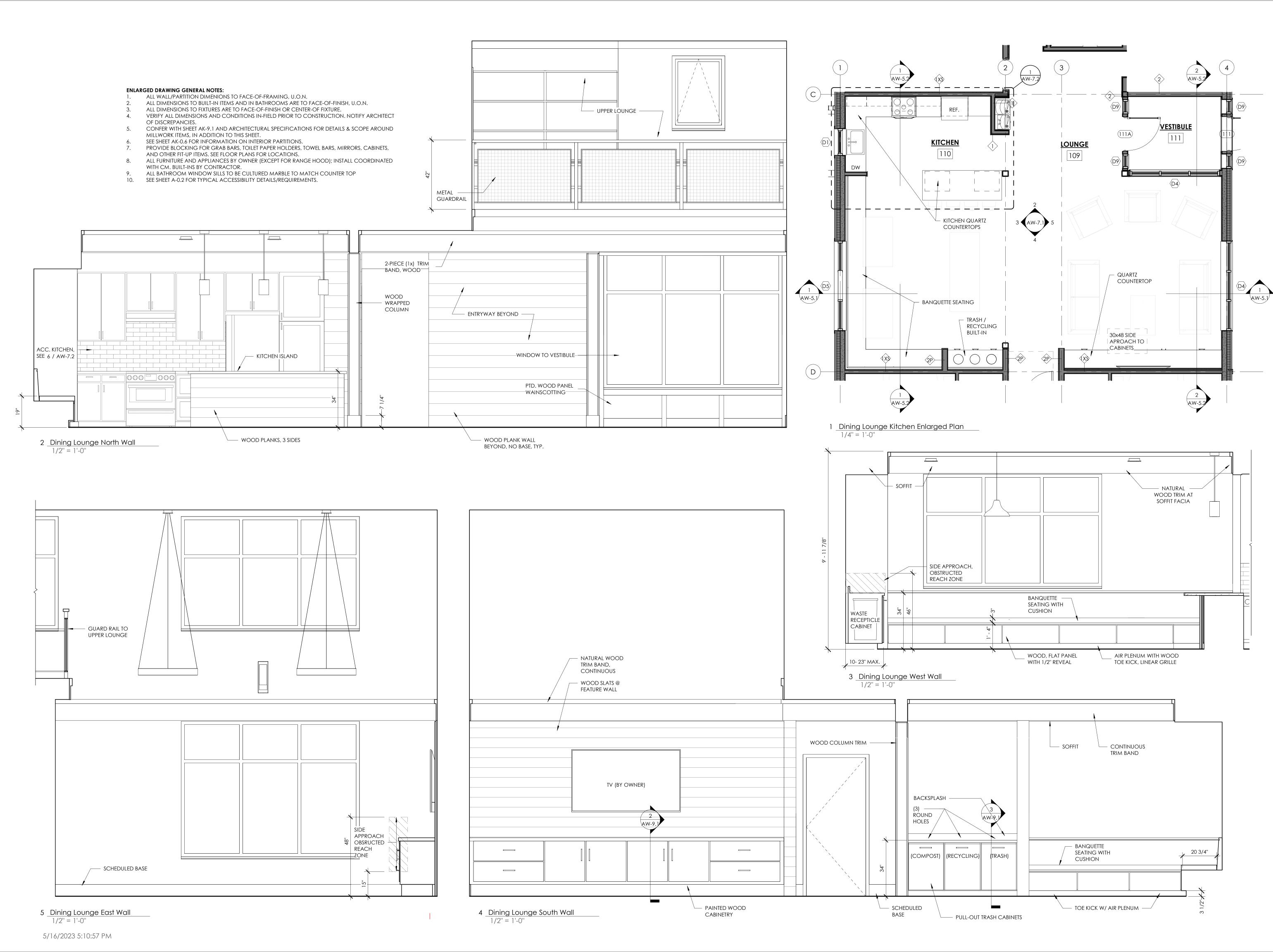
Date Description

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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH INTERIOR DETAILS



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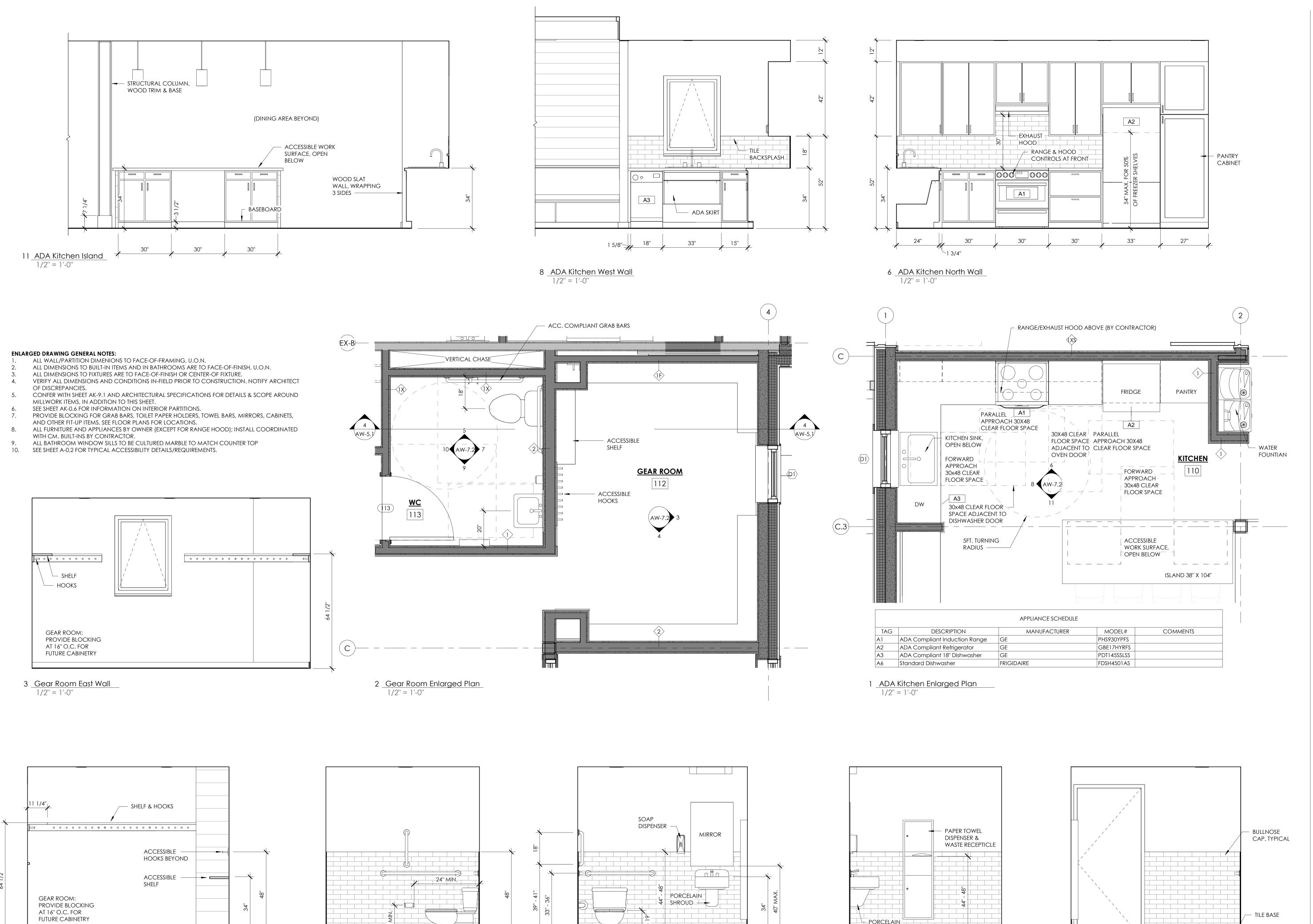
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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH
ENLARGED
COMMON AREA
DRAWINGS



7 FIRST FLOOR WC 113 EAST WALL

1/2" = 1'-0"

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

4 Gear Room South Wall
1/2" = 1'-0" 5/16/2023 5:11:00 PM

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

PORCELAIN _SHROUD^{_}

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

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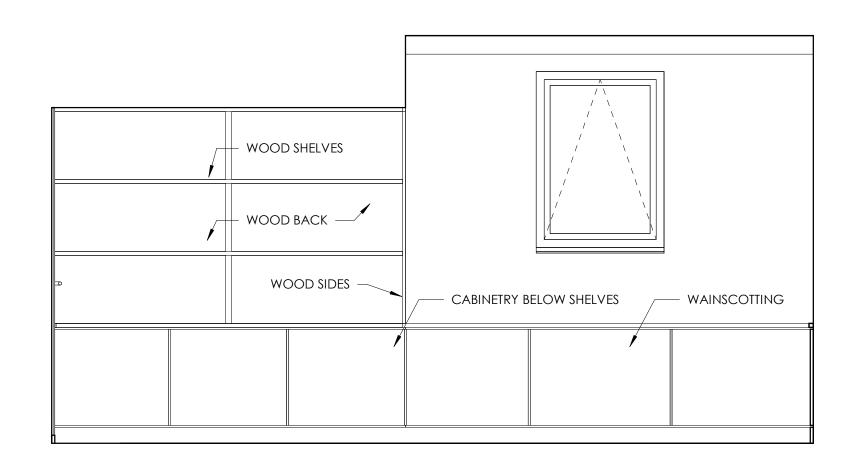
WELCH ENLARGED PLANS & ELEVATIONS

AW-7.2

GEAR & KITCHEN

- VAULTED SPACE BEYOND — - SEE AW-6.10 FOR RAILING DETAILS

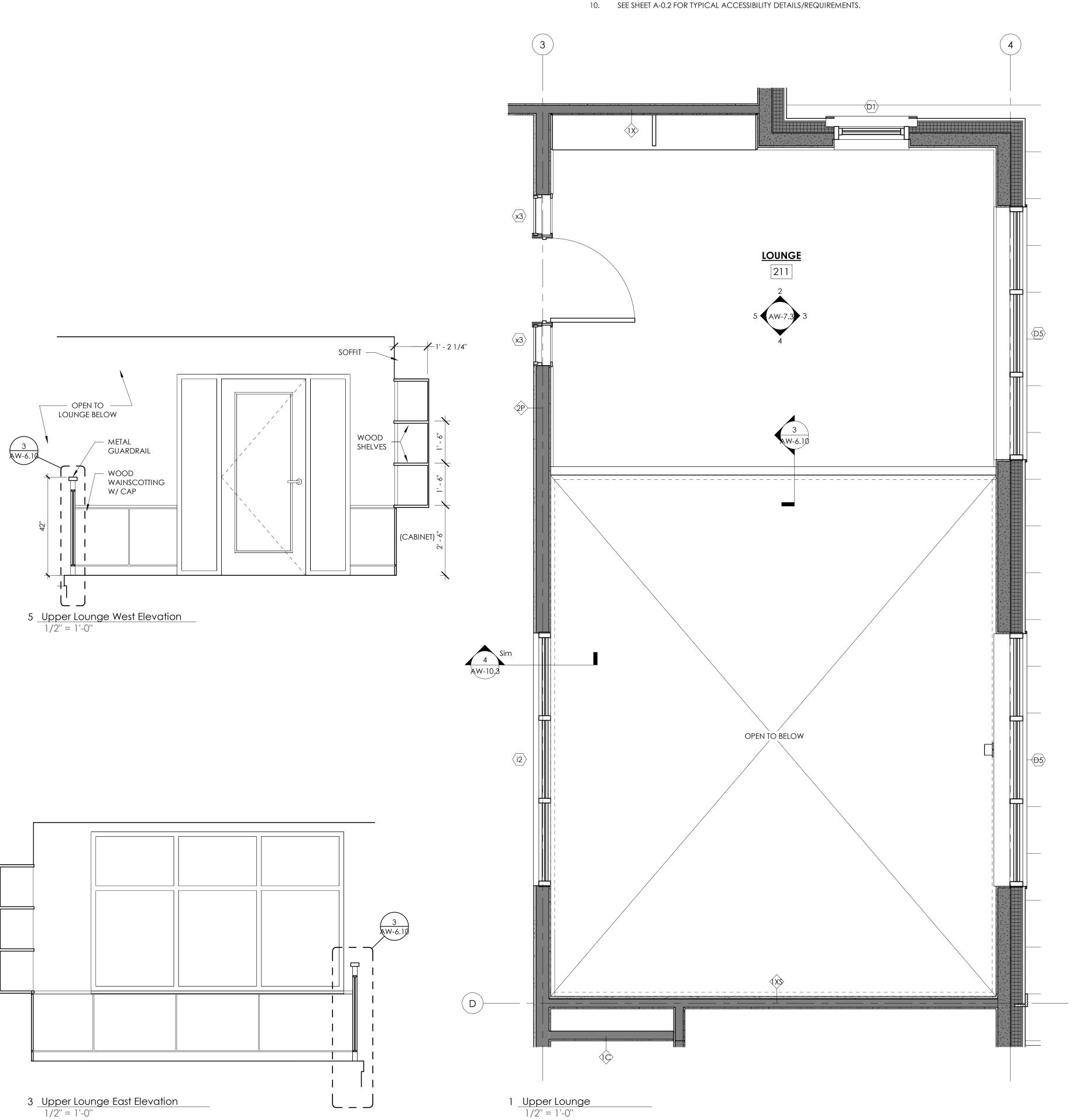
4 Upper Lounge South Elevation
1/2" = 1'-0"



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

ENLARGED DRAWING GENERAL NOTES:

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





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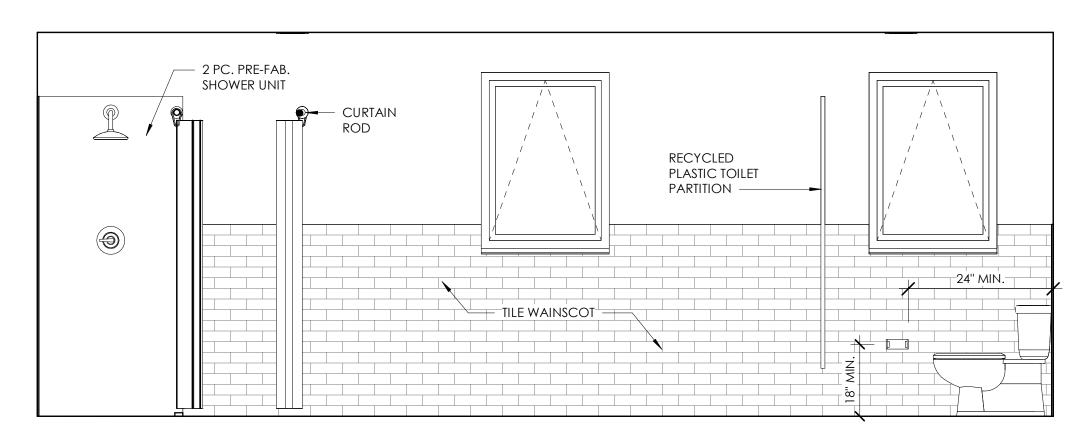
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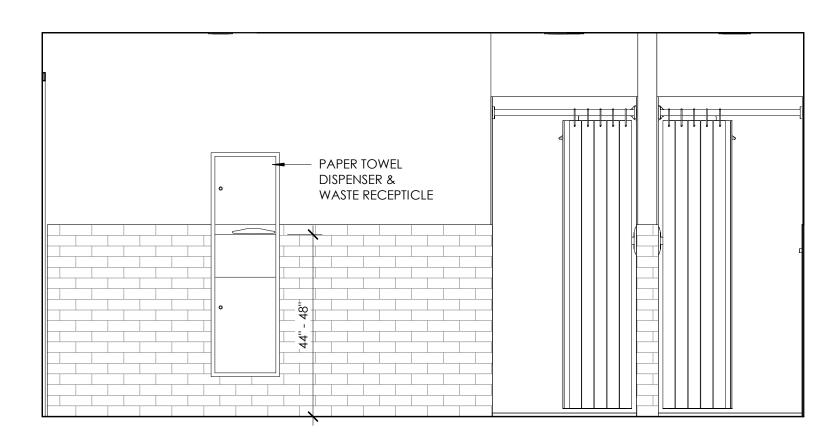
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Main Street, Meriden, NH 03770

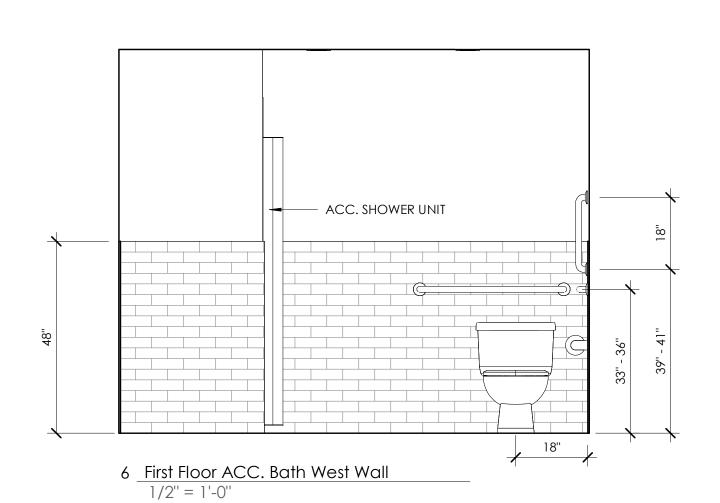
WELCH ENLARGED PLANS & ELEVATIONS

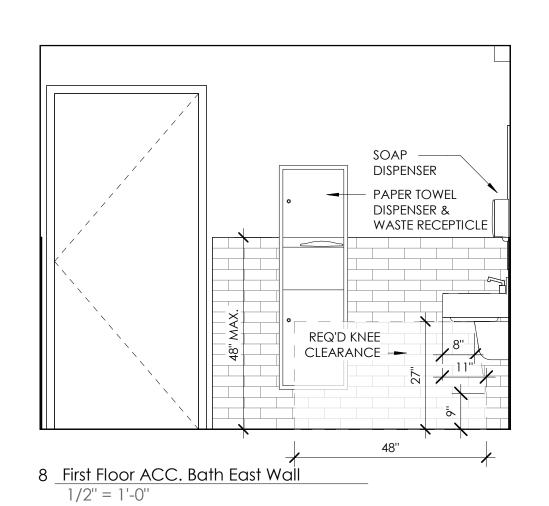


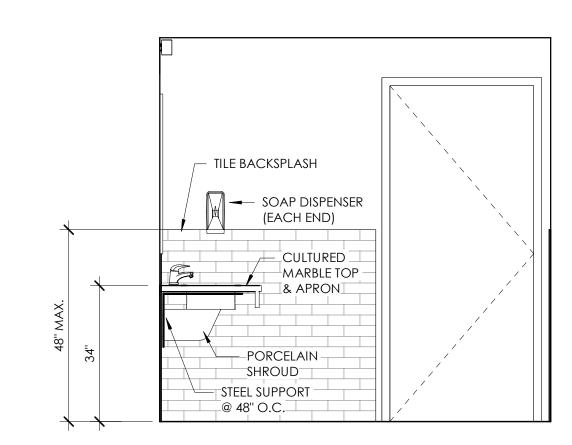
4 First Floor Common Bath Exterior Wall 1/2" = 1'-0"



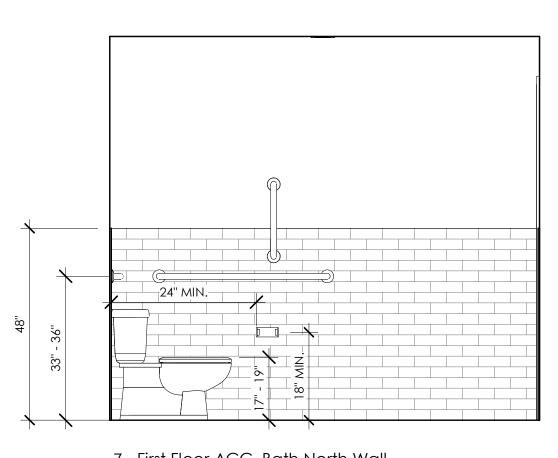
5 First Floor Common Bath Shower Wall
1/2" = 1'-0"



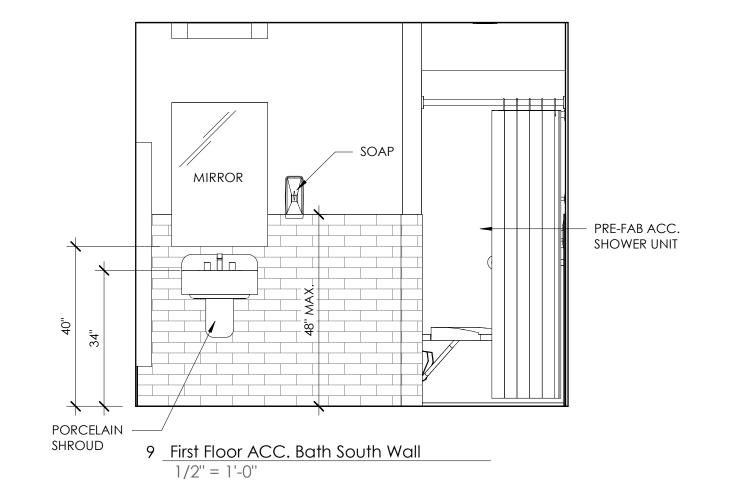


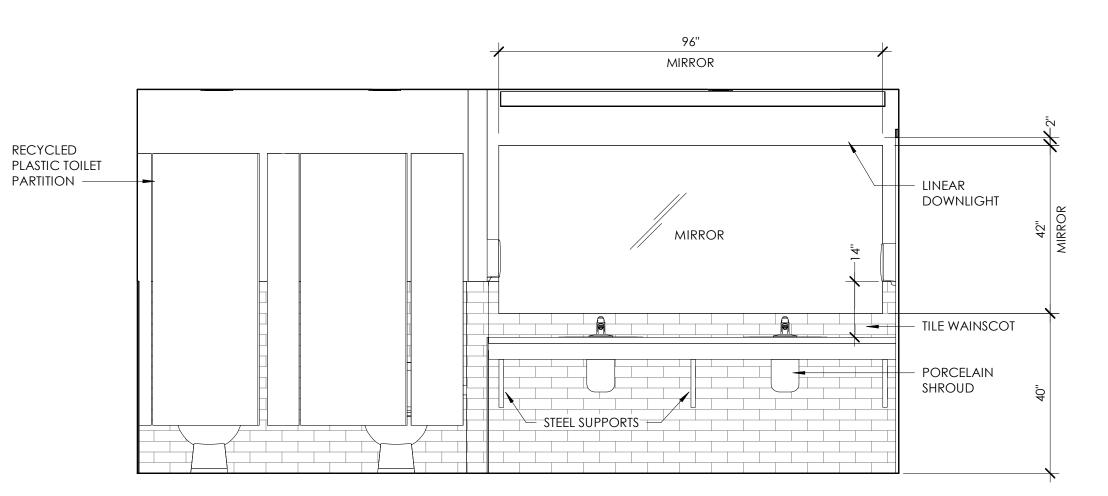


3 First Floor Common Corr. Wall
1/2" = 1'-0"



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





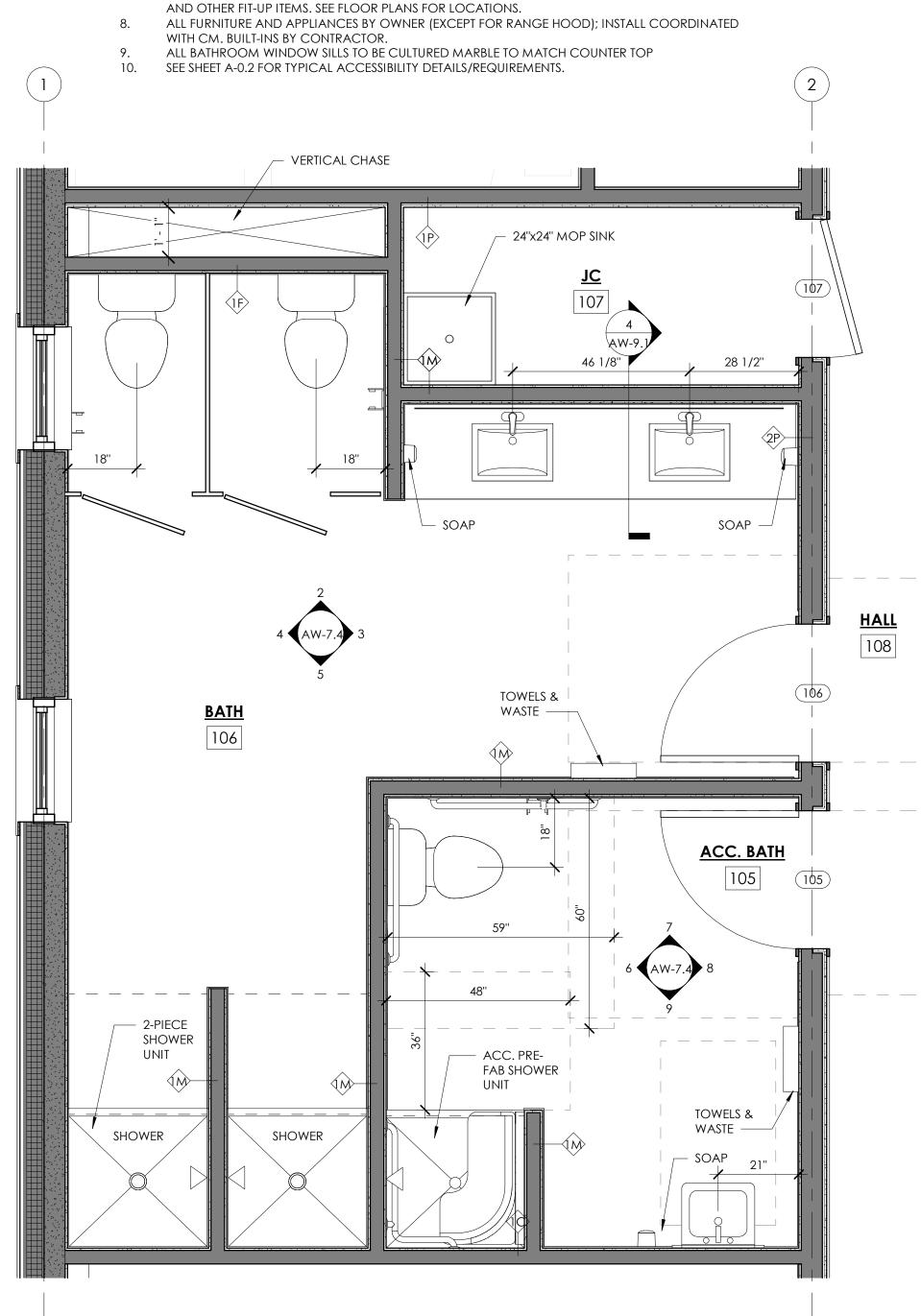
2 First Floor Common Bath Lavatory Wall

1/2" = 1'-0"

1 First Floor Bathrooms 1/2" = 1'-0"

ENLARGED DRAWING GENERAL NOTES: ALL WALL/PARTITION DIMENIONS TO FACE-OF-FRAMING, U.O.N.

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- ALL DIMENSIONS TO FIXTURES ARE TO FACE-OF-FINISH OR CENTER-OF FIXTURE. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT
- CONFER WITH SHEET AK-9.1 AND ARCHITECTURAL SPECIFICATIONS FOR DETAILS & SCOPE AROUND
- MILLWORK ITEMS, IN ADDITION TO THIS SHEET. SEE SHEET AK-0.6 FOR INFORMATION ON INTERIOR PARTITIONS.
- PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS,



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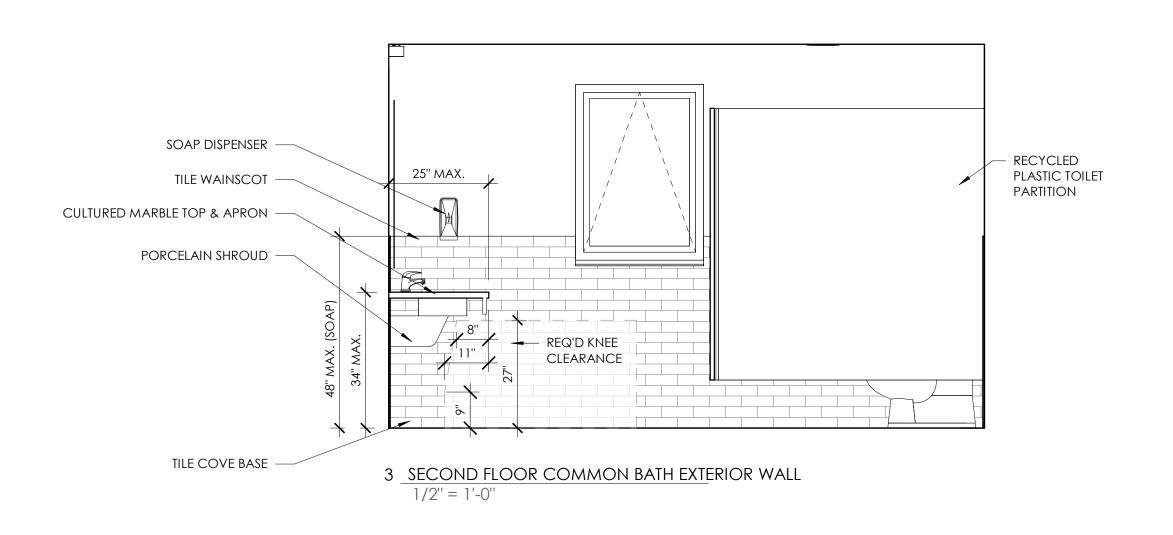
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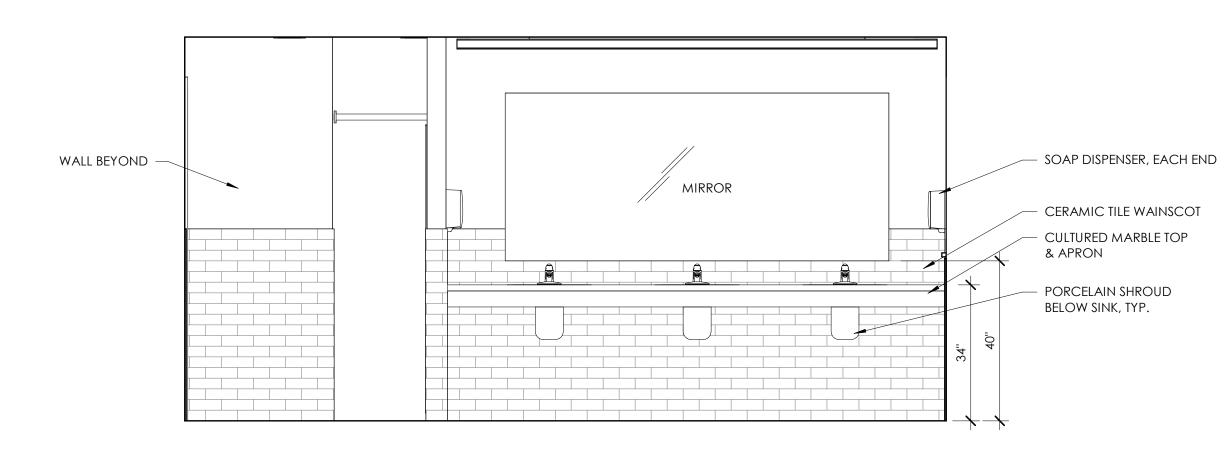
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KUA KILTON/WELCH DORMITORIES

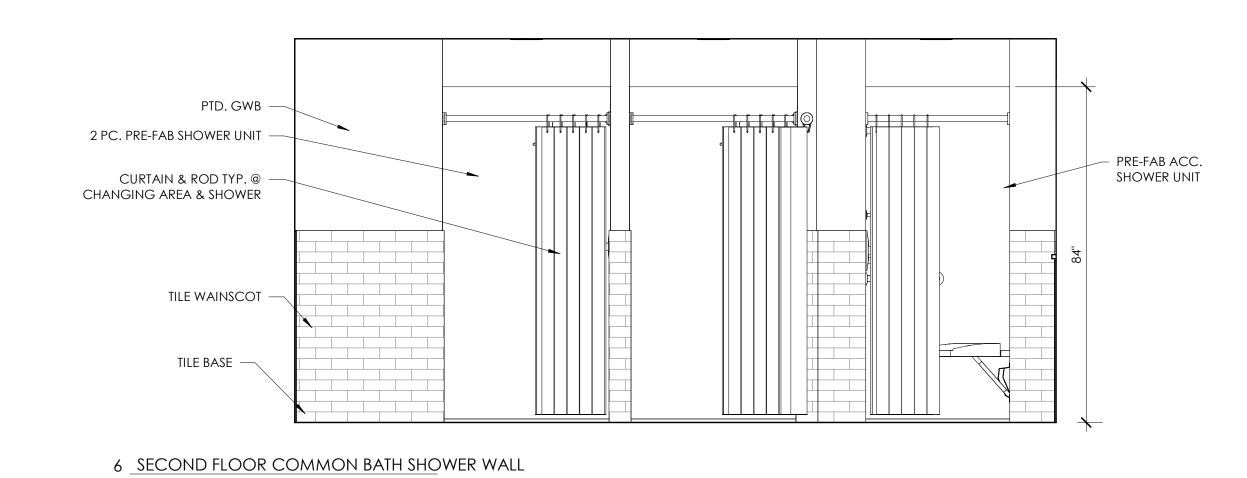
Main Street, Meriden, NH 03770

WELCH ENLARGED BATHROOM DRAWINGS





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



- 2 PC. PRE-FAB SHOWER UNIT RECYCLED PLASTIC TOILET — PARTITION PTD. GWB -CURTAIN & ROD TYP.@ CHANGING AREA& SHOWER TOWELS & WASTE TILE WAINSCOT — TILE COVE BASE

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

1/2" = 1'-0"

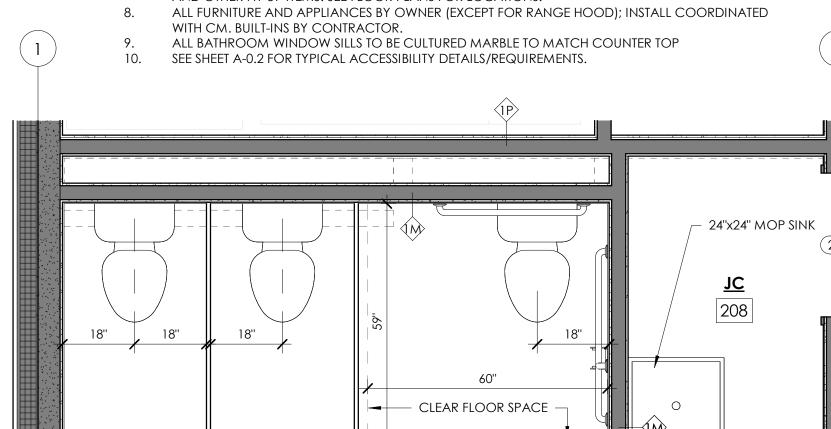
TOWELS & WASTE

2 SECOND FLOOR COMMON BATH TOILET WALL

1/2" = 1'-0"

ENLARGED DRAWING GENERAL NOTES:

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- AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.



TOWELS & WASTE **BATH** 207 BOTTLE FILLER IN HALLWAY, PER SPECS 30"x48" CLEAR FLOOR SPACE

SOAP DISPENSER, EACH END

207

36"x48" CLEAR FLOOR SPACE ACC. PRE-FAB PRE-FAB SHOWER UNIT SHOWER UNIT

62 1/4"

1 Second Floor Common Bath
1/2" = 1'-0"



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KUA KILTON/WELCH DORMITORIES

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WELCH ENLARGED BATHROOM DRAWINGS

4' - 3 3/4" - WINDOW SILL TO MATCH COUNTERTOP 24" DEEP SOFFIT — SOFFIT — SOFFIT — OVER REF & PANTRY TILED BACKSPLASH TO UNDERSIDE OF UPPERS @ REF. TYP. 000000 wood Casing A8 A6 WOOD BASE 30" 21" 1 3/8" 7 F.R. Kitchen North Wall Elevation 4 F.R. Kitchen East Wall Elevation 1/2" = 1'-0" - PENDANTS

42"

- ISLAND

1/2" X 42" FLAT STEEL BAR SUPPORT @ OVERHANG

24" 20"

25"

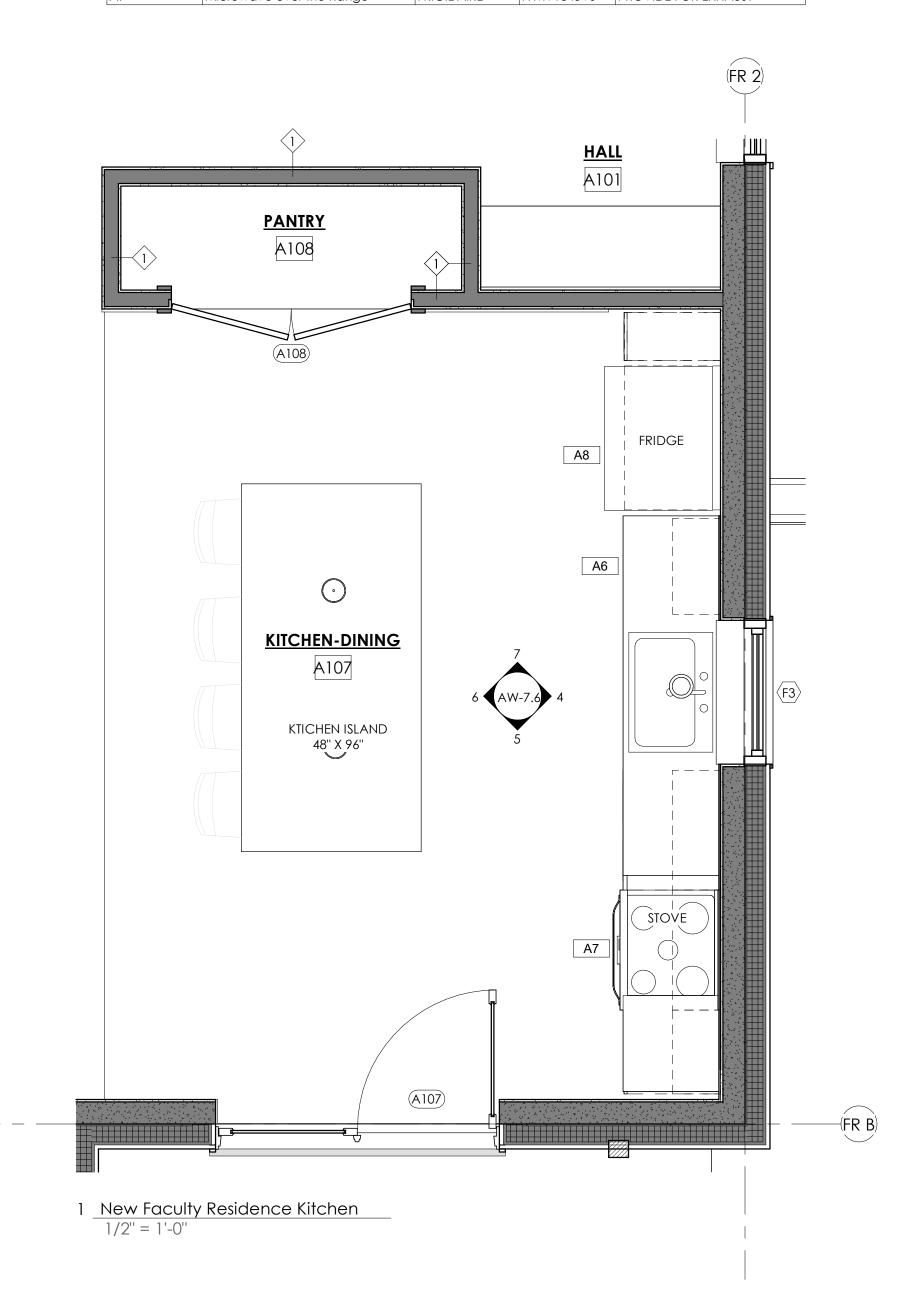
5 F.R. Kitchen South Wall Elevation
1/2" = 1'-0"

ENLARGED DRAWING GENERAL NOTES:

- ALL WALL/PARTITION DIMENIONS TO FACE-OF-FRAMING, U.O.N.
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- 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.

APPLIANCE SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER	MODEL#	COMMENTS	
A6	Standard Dishwasher	FRIGIDAIRE	FDSH4501AS		
A7	Standard Induction Range	FRIGIDAIRE	GCRI3058AF		
A8	Refrigerator with Ice + Water	FRIGIDAIRE	FRFC2323AS	PROVIDE WATER LINE TO REF.	
A9	Microwave over the Range	FRIGIDAIRE	FFMV1845VS	PROVIDE FOR EXHAUST	





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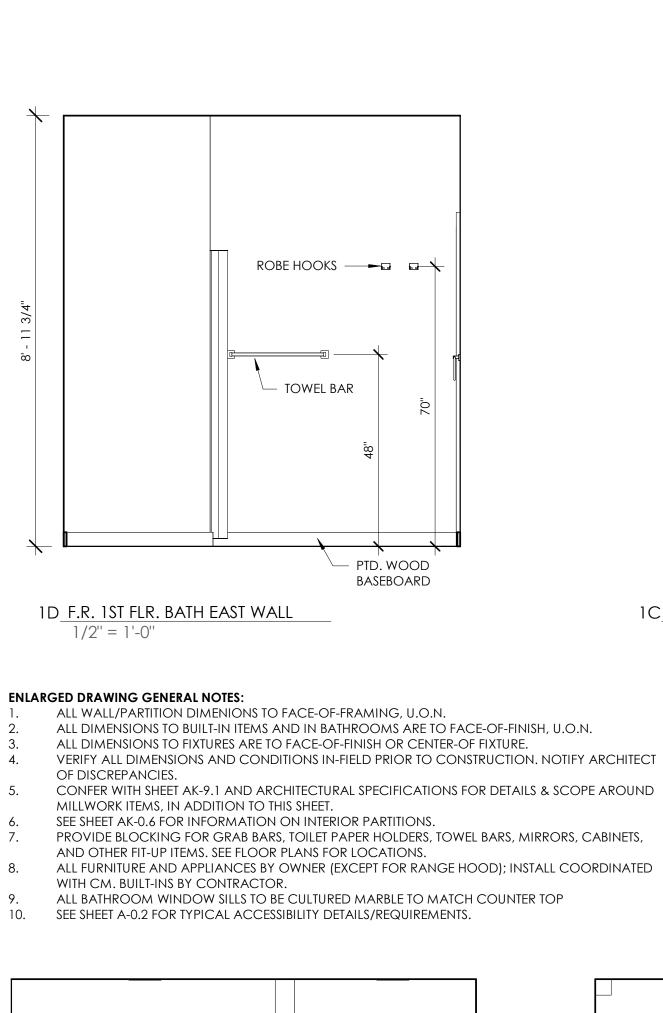
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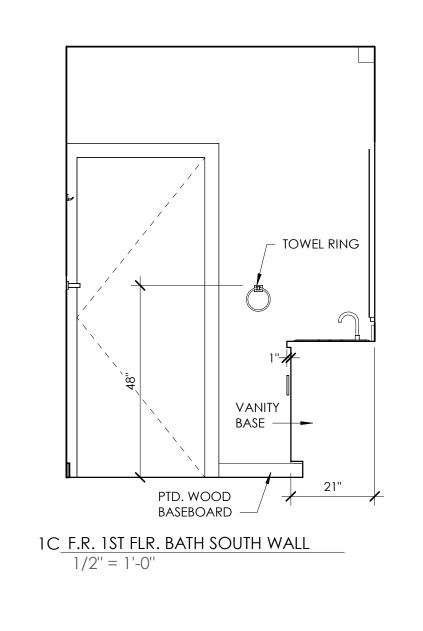
Main Street, Meriden, NH 03770

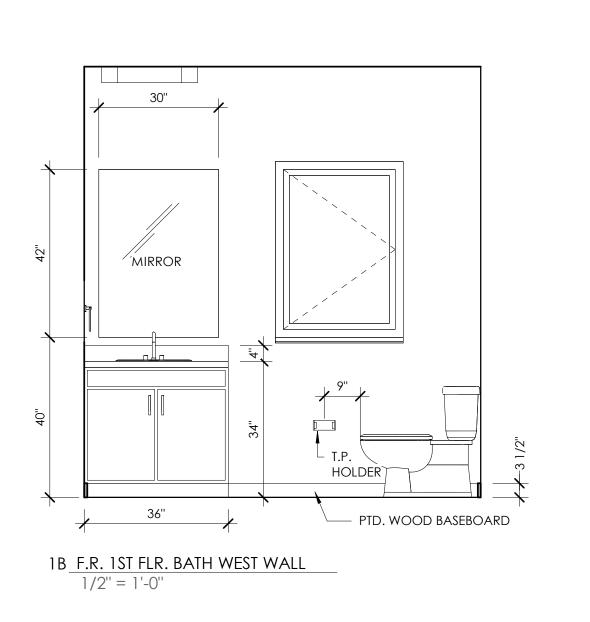
WELCH
FACULTY RES.
ENLARGED PLANS
& ELEVATIONS

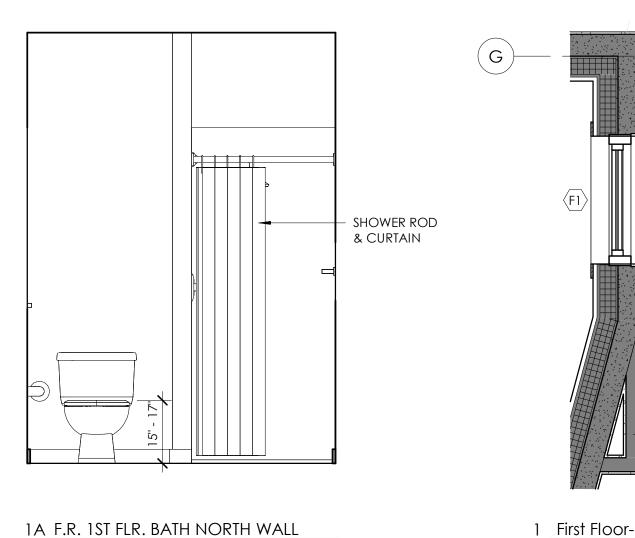
AW-7.6

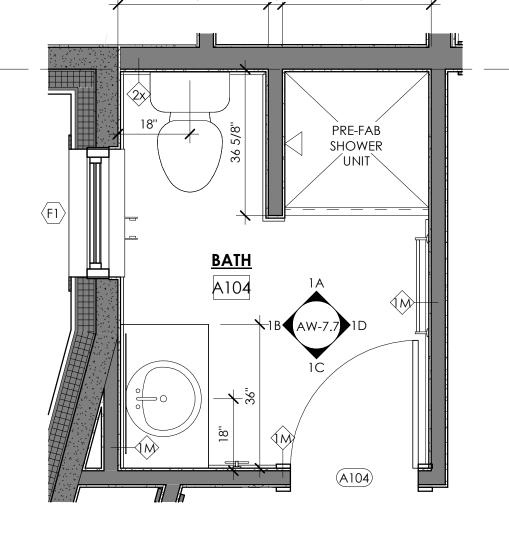
6 F.R. Kitchen Island Elevation





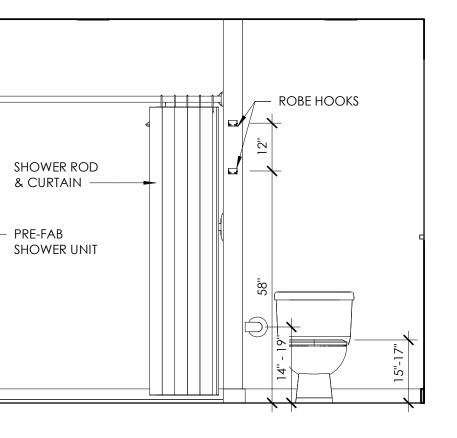






1 First Floor- Faculty Residence Bathroom 1/2" = 1'-0"

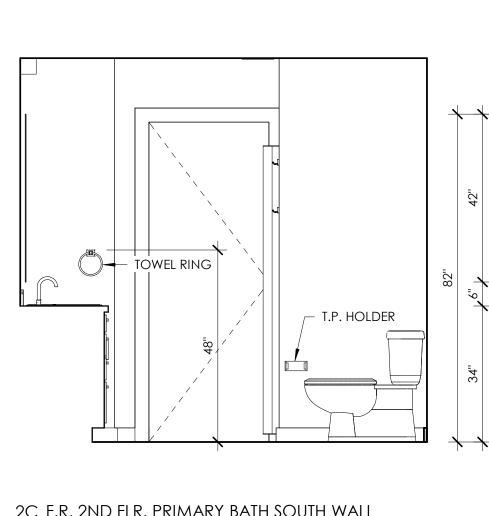




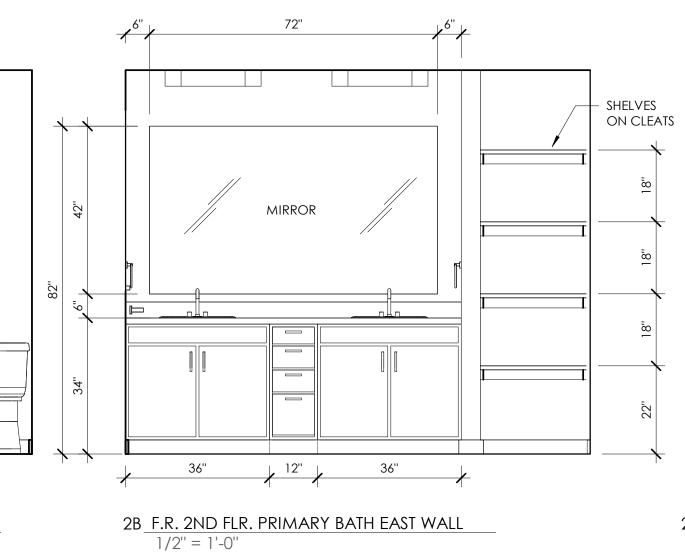
2D F.R. 2ND FLR. PRIMARY BATH WEST WALL

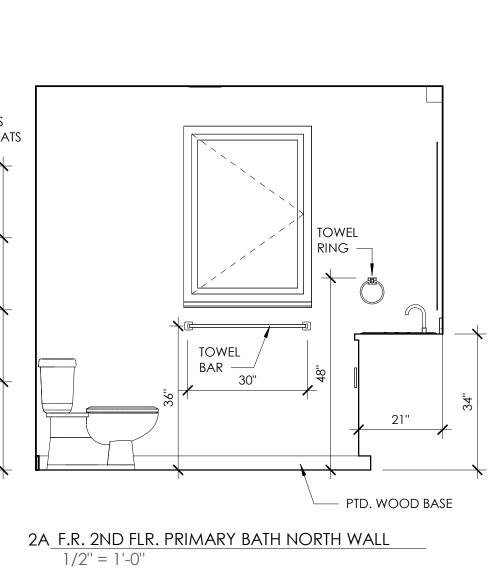
1/2" = 1'-0"



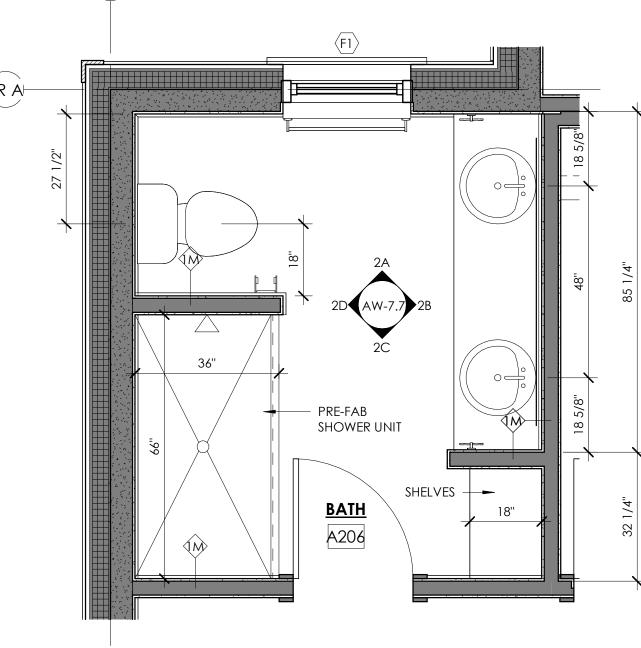


2C F.R. 2ND FLR. PRIMARY BATH SOUTH WALL 1/2" = 1'-0"

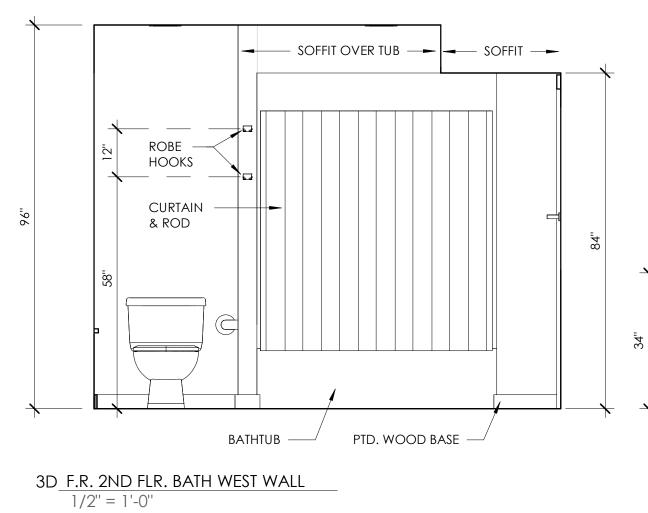


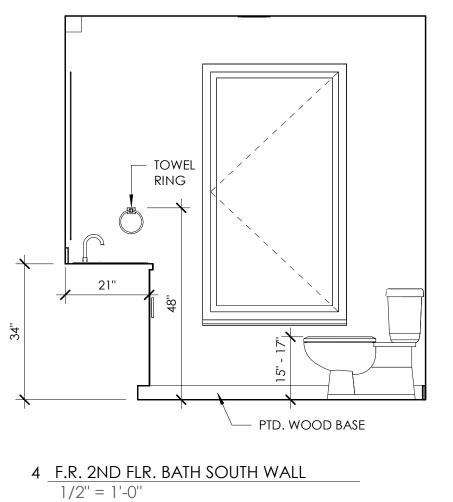


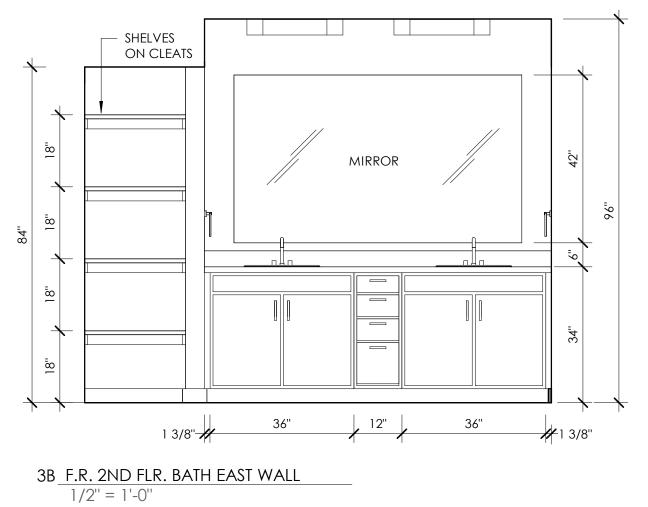
1/2'' = 1'-0''

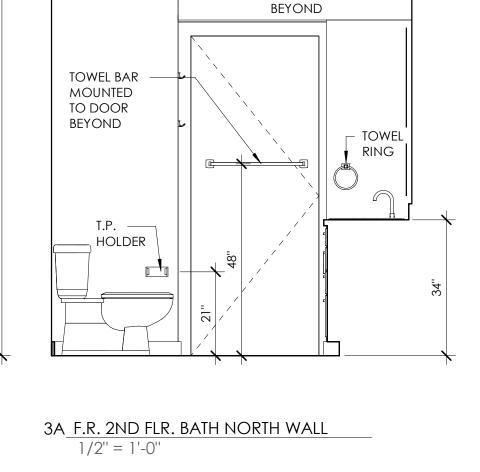


2 Second Flr- Faculty Residence Bath 206 1/2" = 1'-0"

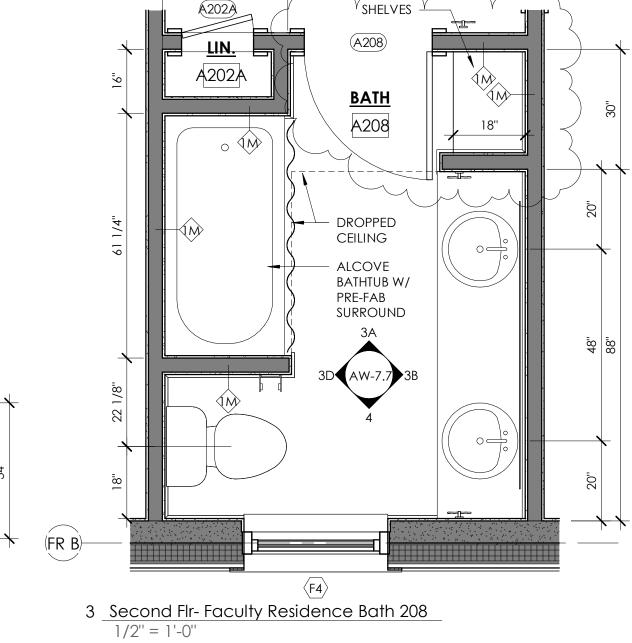








SOFFIT



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

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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

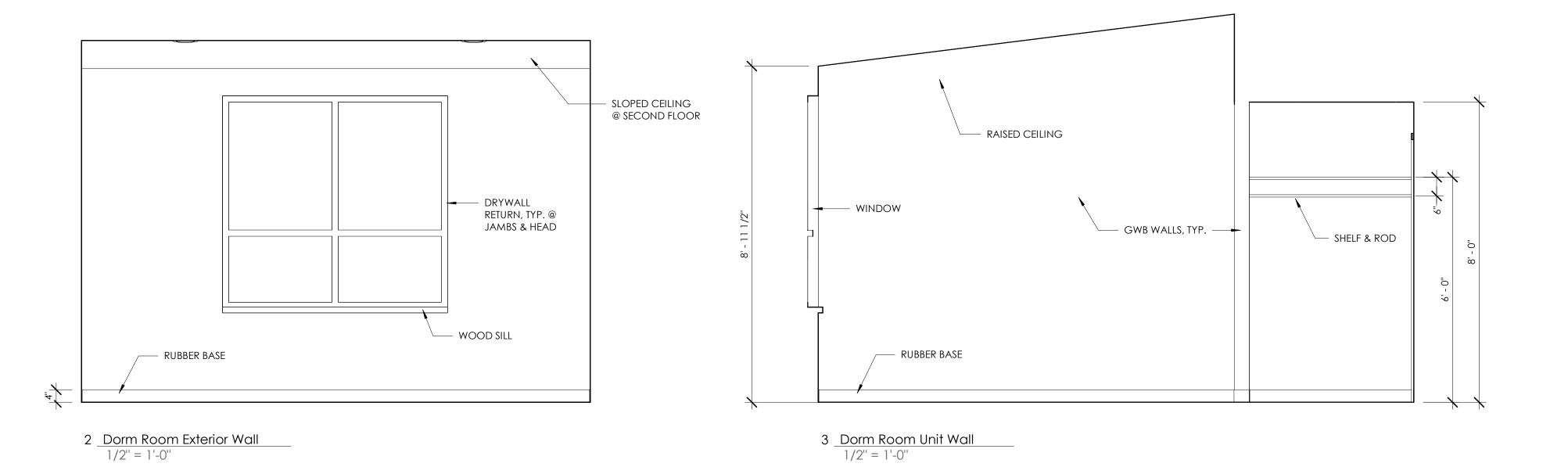
WELCH FACULTY RES. ENLARGED BATHROOMS

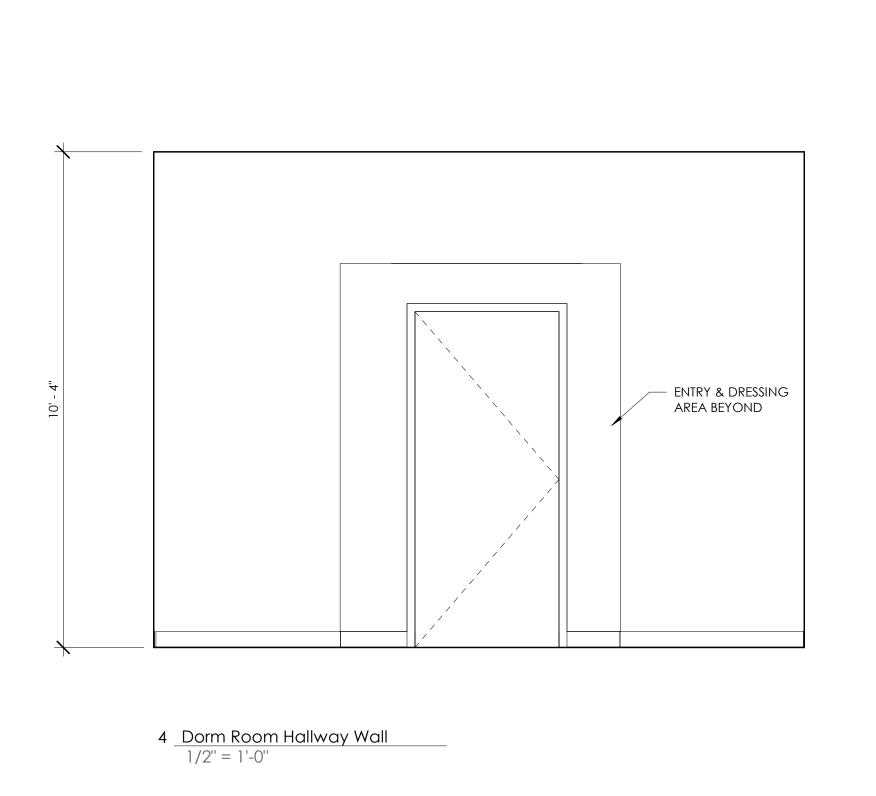
AW-7.7

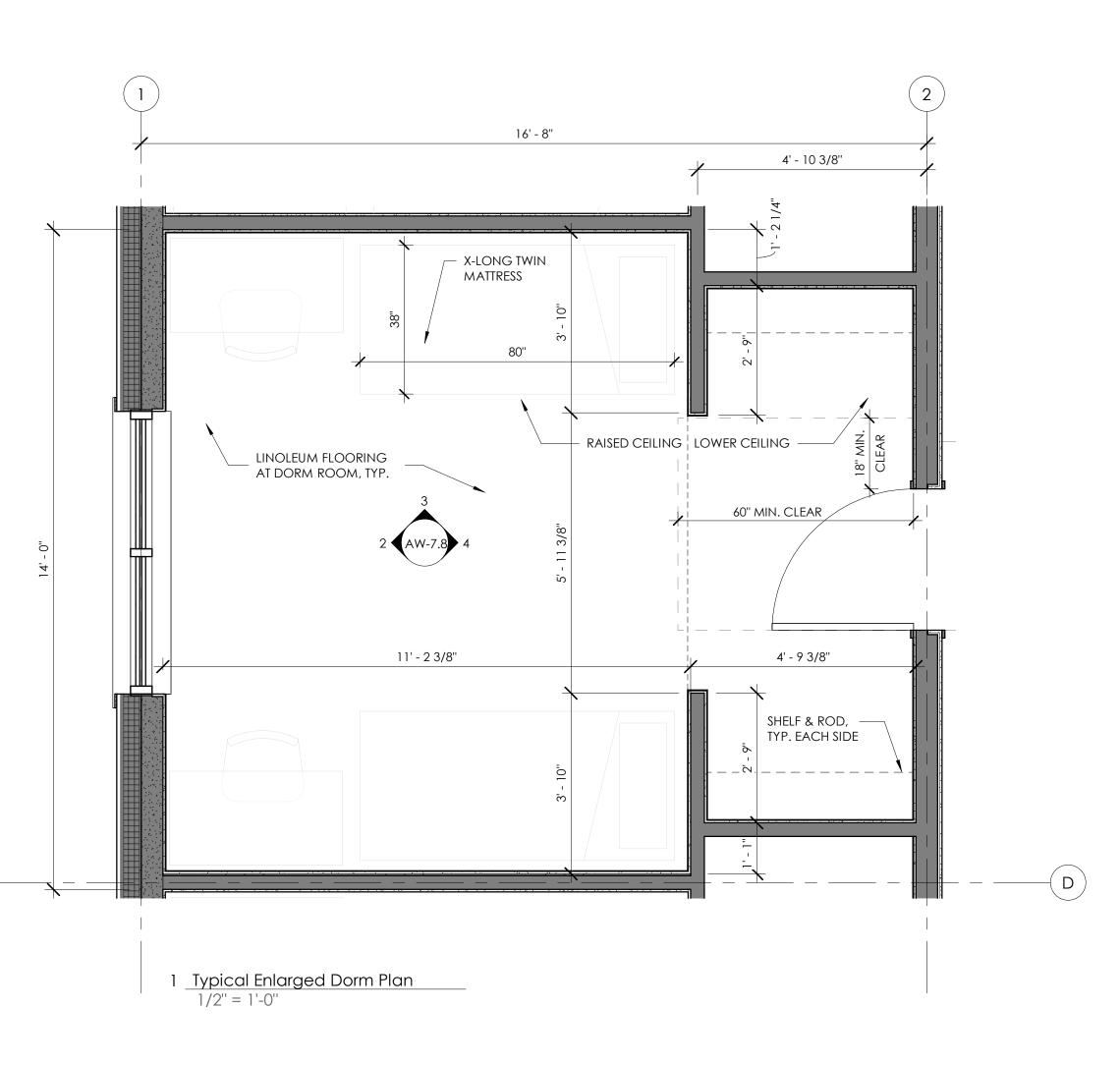
DORM ROOM NOTES: 1. DIMENSIONS ARE GIVEN TO FACE OF FRAMING 2. OWNER IS RESPONSIBLE FOR COORDINATING FURNITURE

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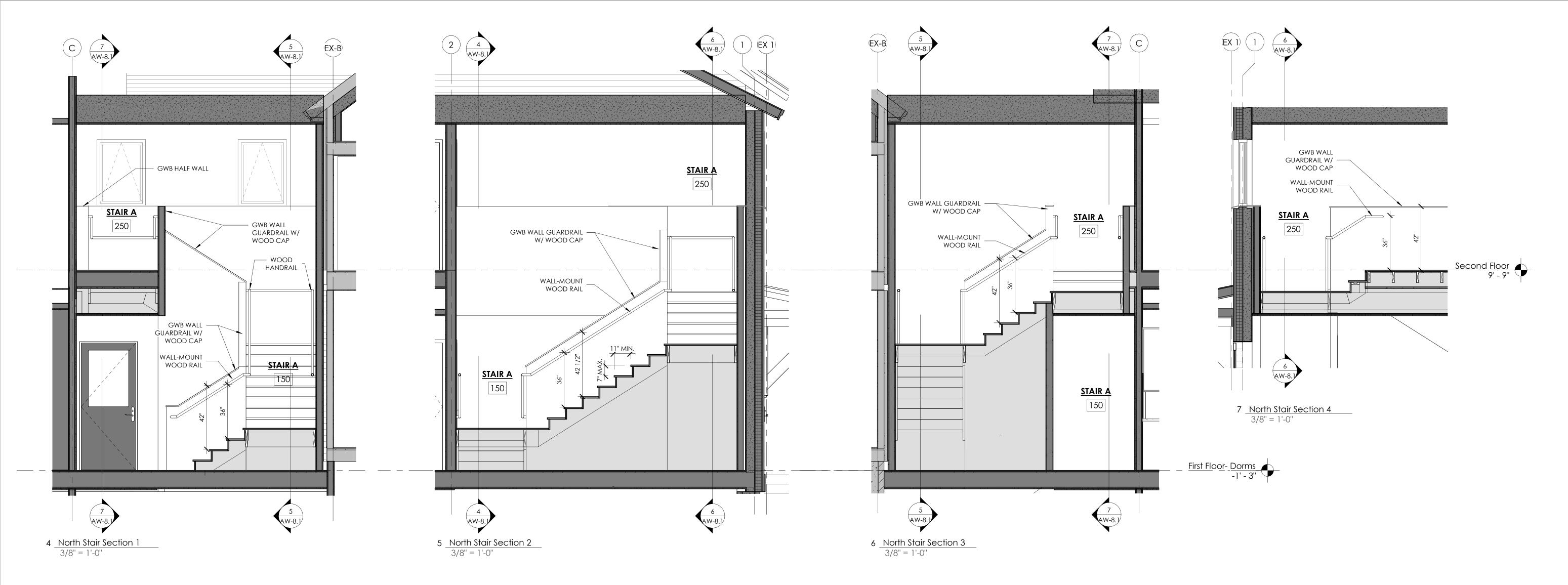
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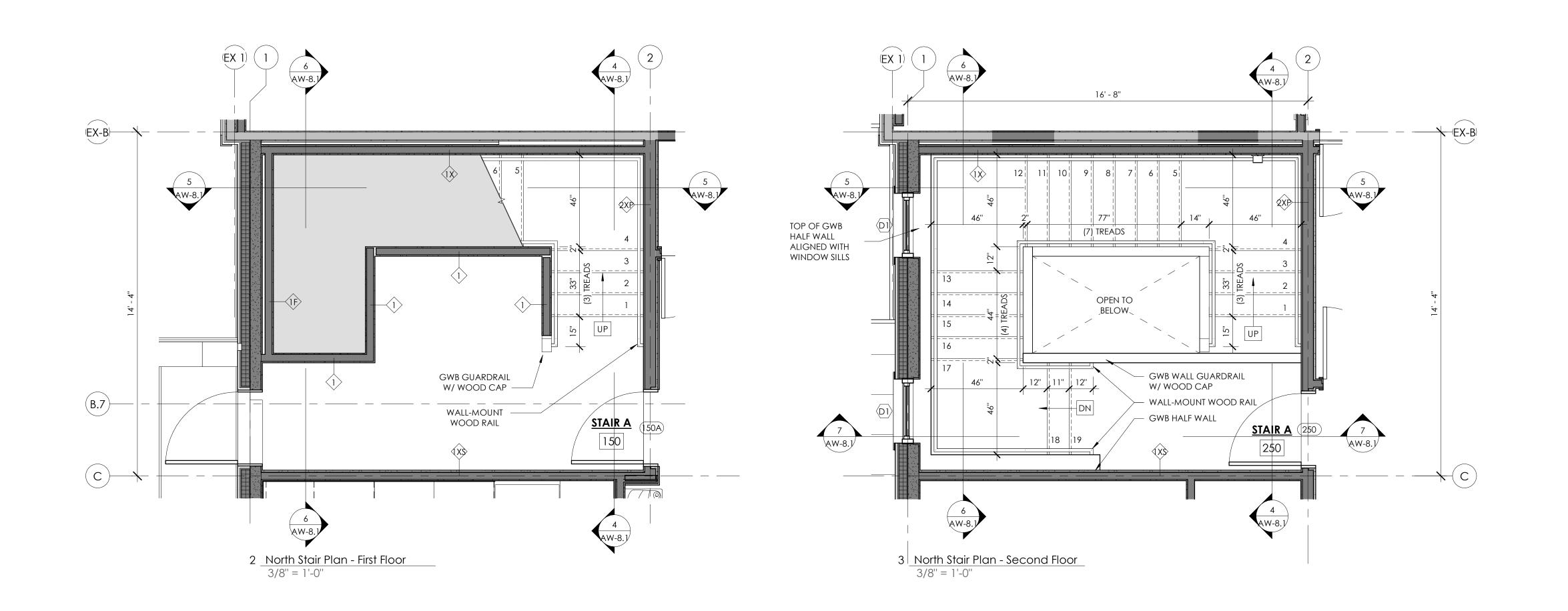
KUA KILTON/WELCH DORMITORIES

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WELCH ENLARGED DORM ROOM DRAWINGS

AW-7.8







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KUA KILTON/WELCH DORMITORIES

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WELCH DORM NORTH STAIR SECTIONS

AW-8.1

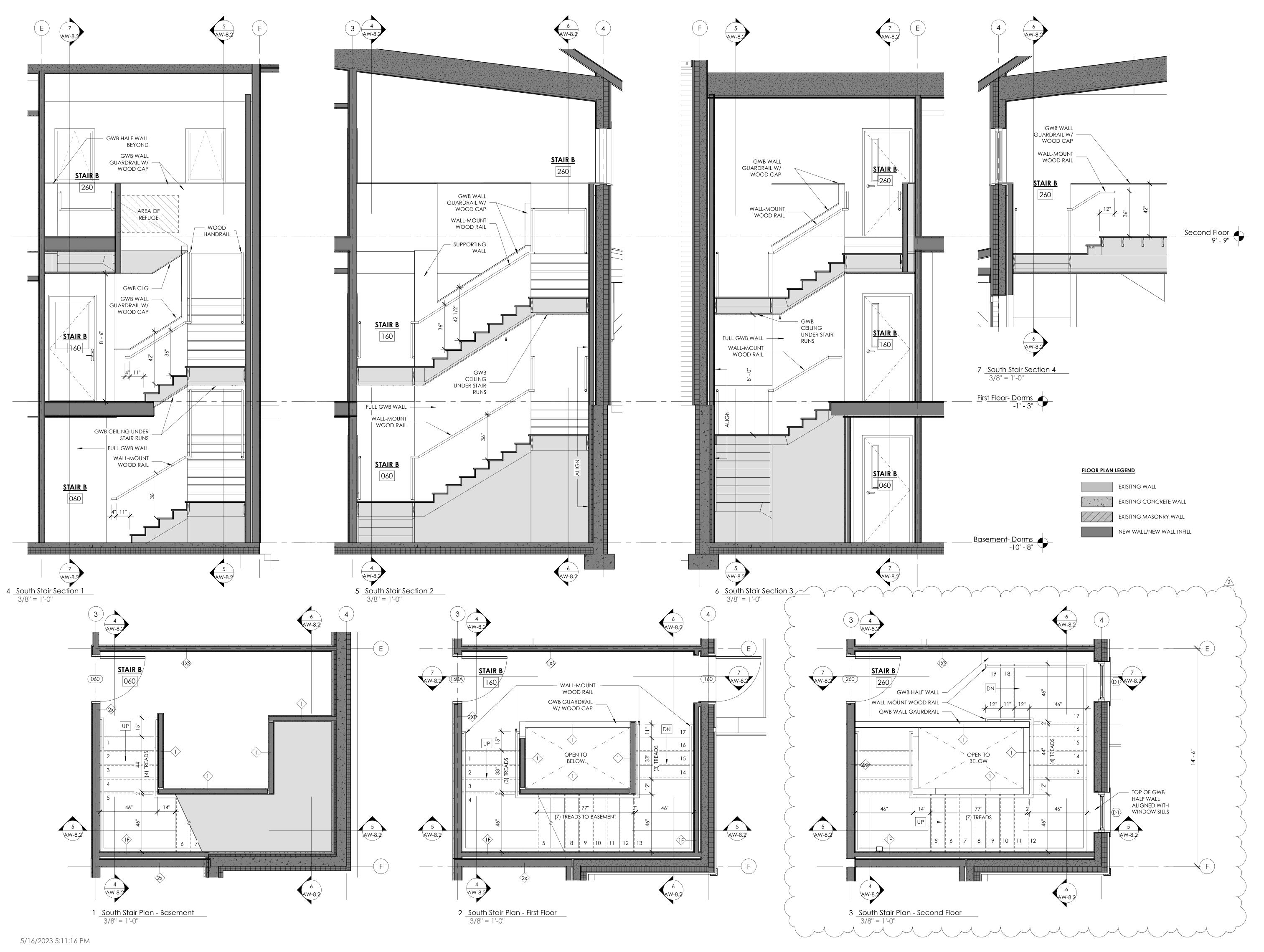
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FLOOR PLAN LEGEND

EXISTING WALL EXISTING CONCRETE WALL

EXISTING MASONRY WALL

NEW WALL/NEW WALL INFILL



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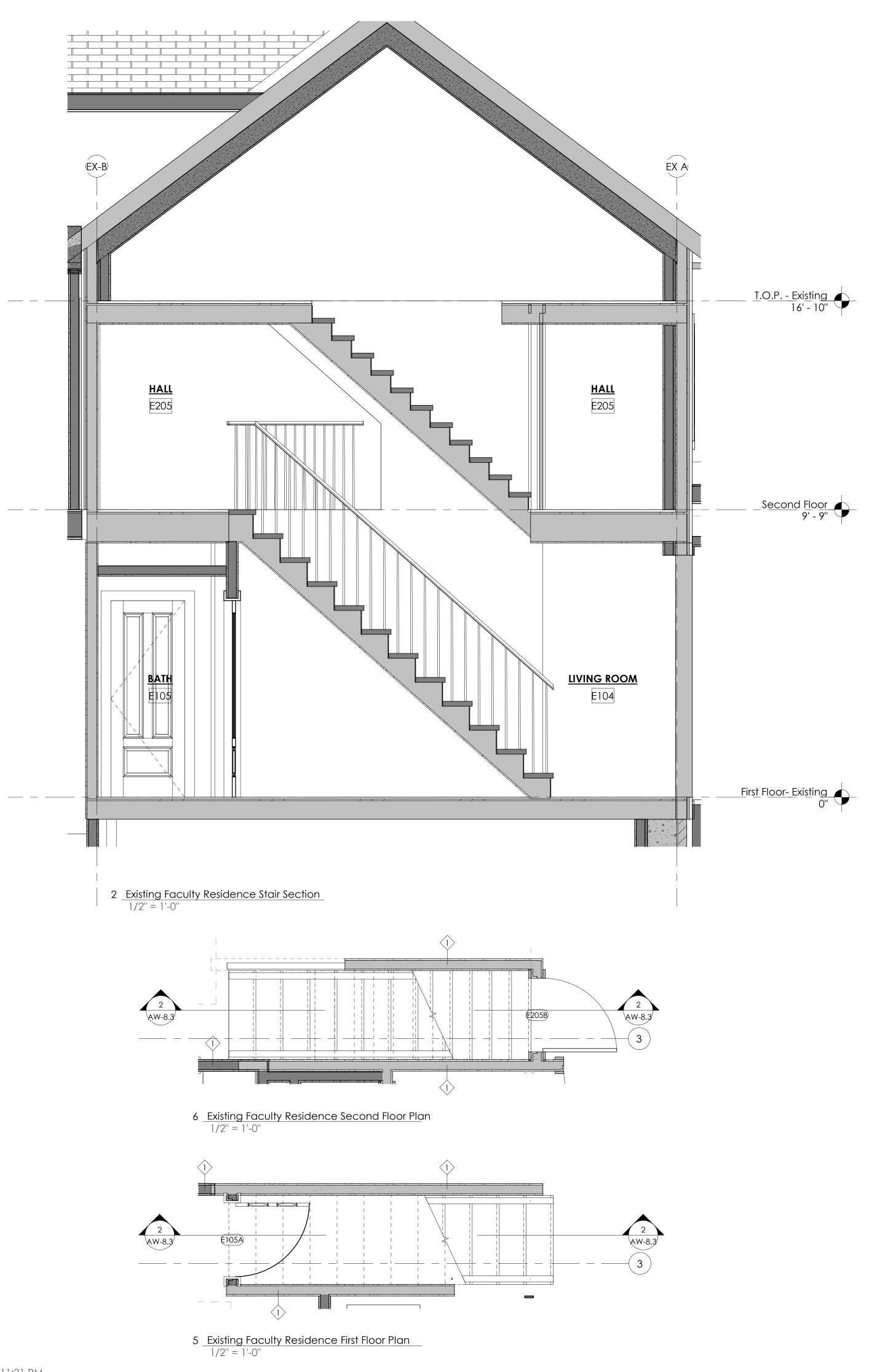
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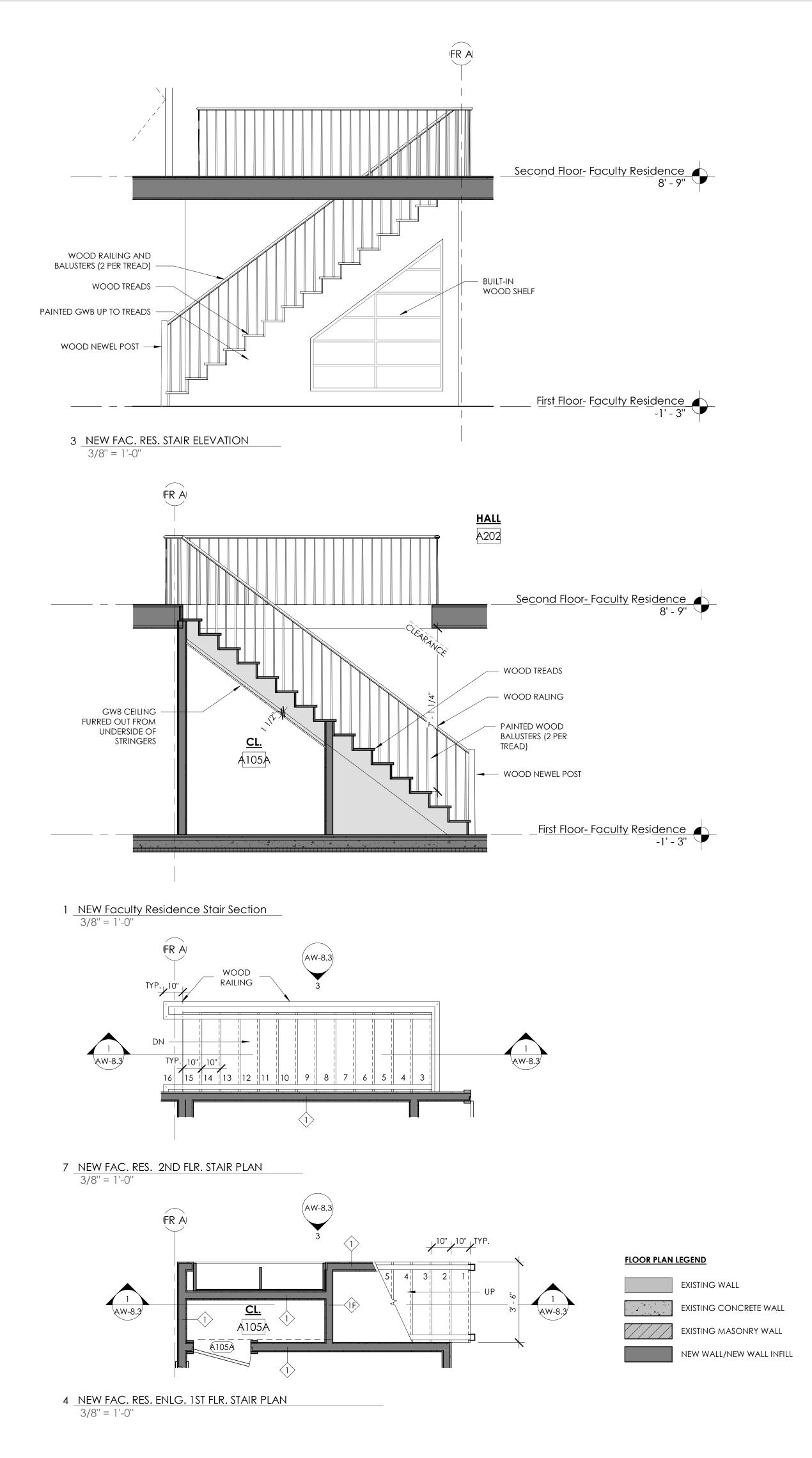
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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH
DORM SOUTH
STAIR SECTIONS







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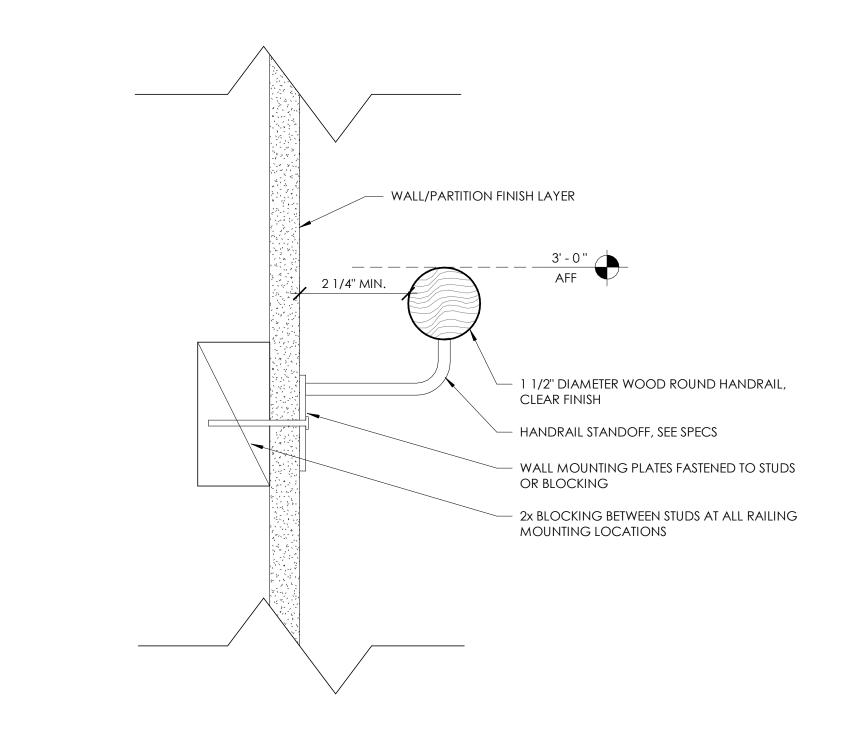
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KUA
KILTON/WELCH
DORMITORIES

Main Street, Meriden, NH 03770

WELCH
ALL FACULTY
RESIDENCES STAIR
SECTIONS



2 <u>Typical Handrail Detail</u> 6" = 1'-0"

1 Stair Tread Detail 1 1/2" = 1'-0"

- 2x10 LANDING FRAMING - INFILL FRAMING AS REQUIRED TO SUPPORT GWB HEADER PER STRUCTURAL — SIMPSON LS90 HANGER, SEE STRUCTURAL TREAD MIN. 11" AND RISER MAX. 7" (TYP.) FLOOR LEVEL BEVEL PLYWOOD EDGE AT 15 DEGREE ANGLE, TYP. TYPICAL RUN 1X PAINTED WOOD STRINGER - 1/2" CDX SUB-RISER. ✓ EQUAL RISES +/- 3/16" (2) LAYERS 3/4" CDX SUB-TREAD GLUED TOGETHER INTEGRATED RUBBER TREADS AND RISERS 5/8 TYPE X GWB -2x4 STRAPPING -LANDING @ 16" O.C. STAIR STRINGER , -CUT FROM 1 3/4"X 14" LVL AT 16" OC - 2X FRAMING FOR GWB - BEAM/HEADER PER STRUCTURAL

CLOSED CELL SPRAY FOAM INSULATION

RIGID FOAM INSULATION

FILL INSULATION

DIMENSIONAL LUMBER

RIGID MINERAL WOOL INSULATION

BATT INSULATION

PLYWOOD

STONE FILL

EARTH

? Section Details and Materials
1/4" = 1'-0"

SECTION DETAILS AND MATERIALS LEGEND

— — — — VAPOR CONTROL LAYER (VCL)

WEATHER RESISTIVE BARRIER (WRB)/ DRAINAGE PLANE

UNDER SLAB VAPOR CONTROL LAYER

WATERPROOFING MEMBRANE (SAWM) AT EDGES/ JOINTS/ INTERSECTIONS

AIR CONTROL LAYER (ACL)

TAPE OR SELF ADHERING

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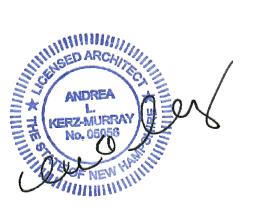
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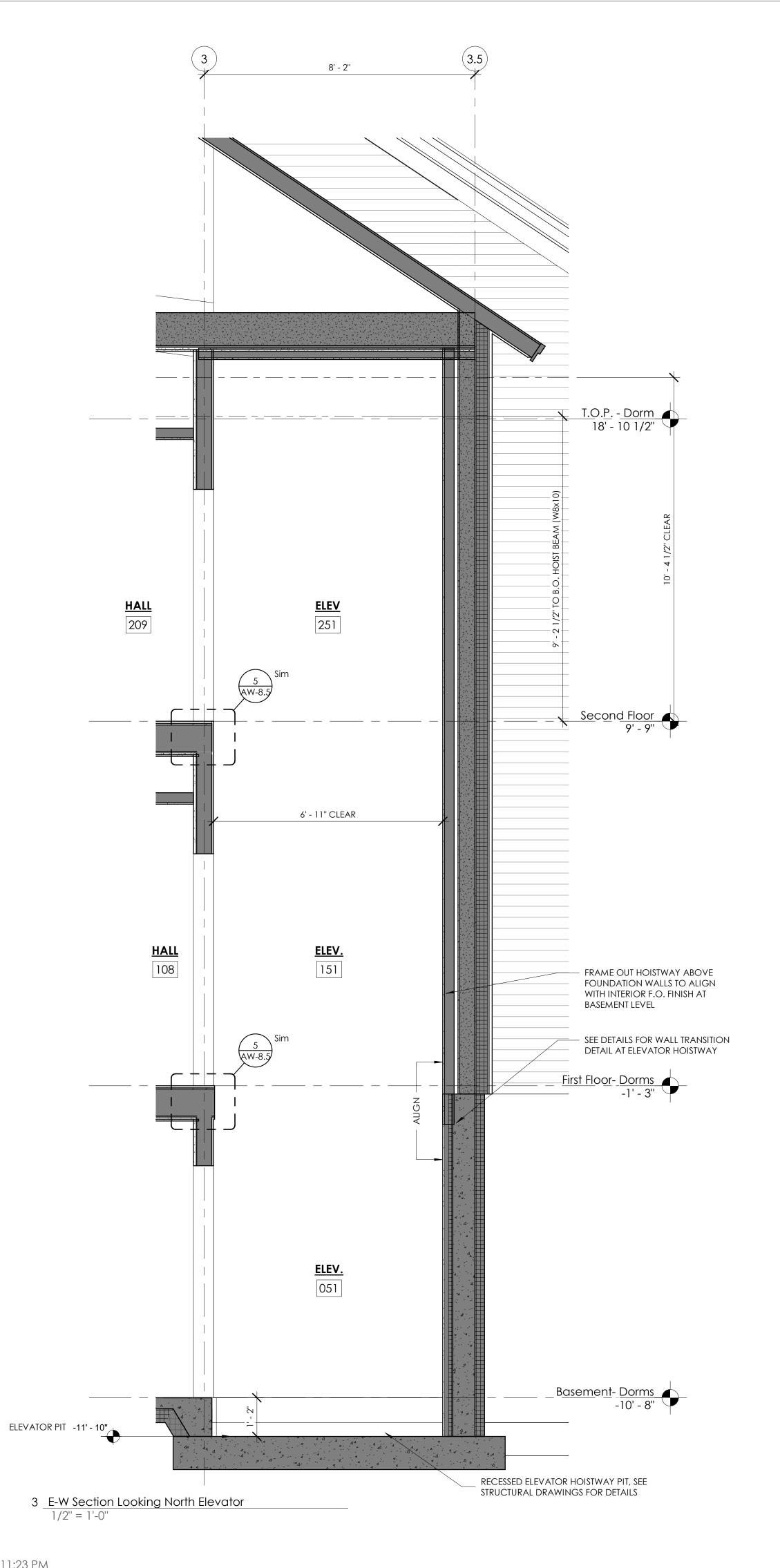
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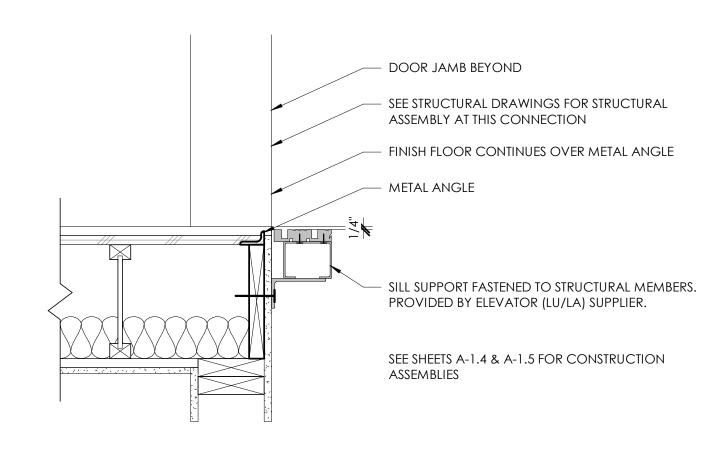
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KUA KILTON/WELCH DORMITORIES

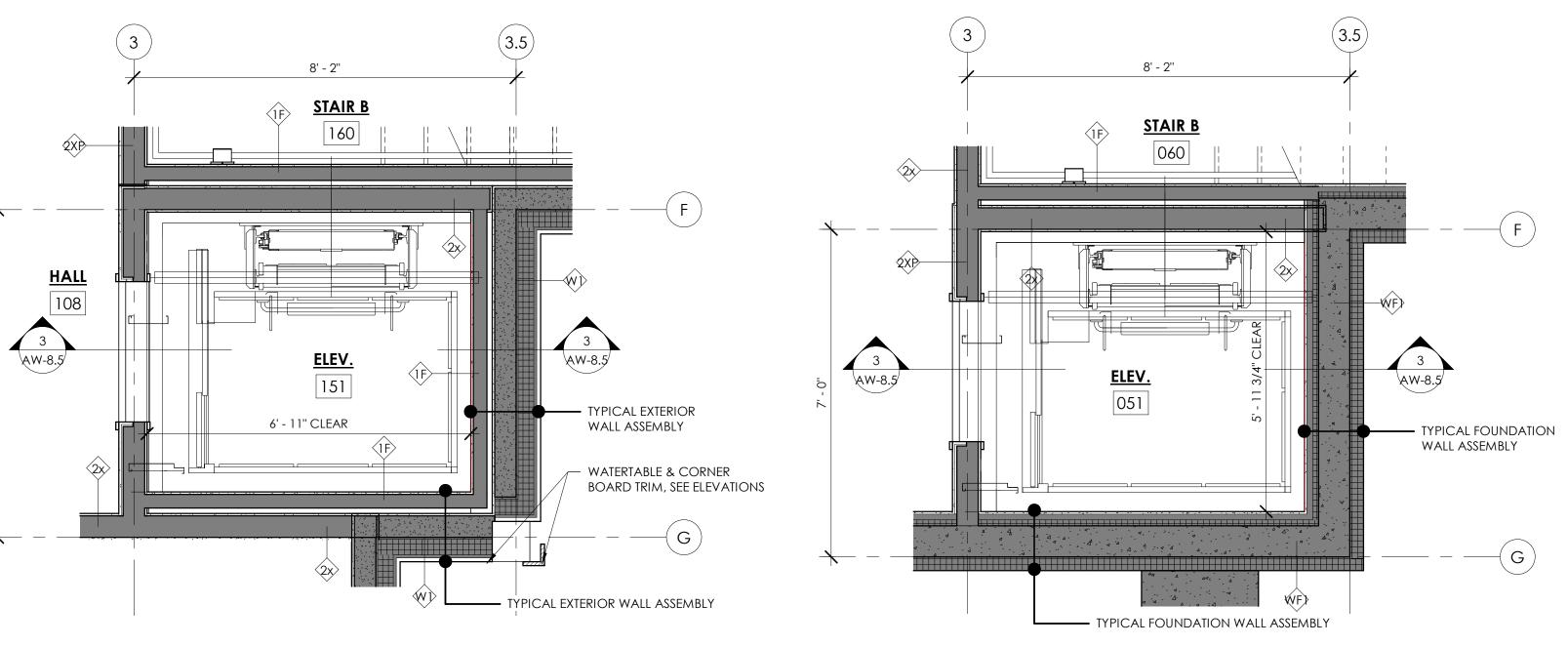
Main Street, Meriden, NH 03770

WELCH STAIR DETAILS





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"



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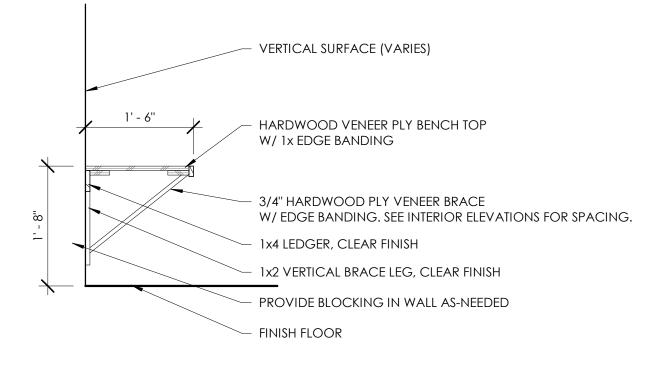
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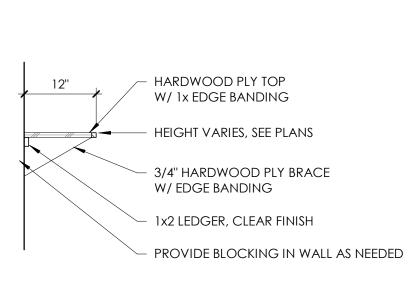
KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

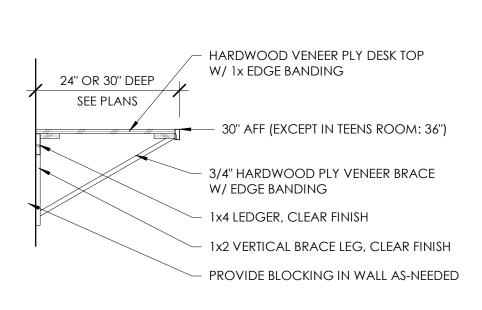
WELCH ELEVATOR DRAWINGS



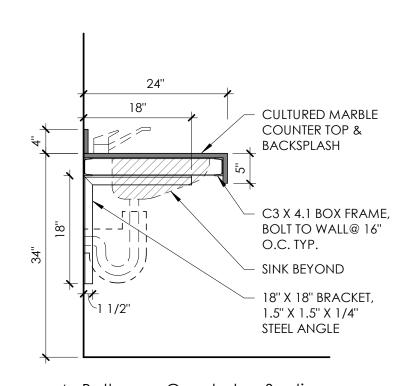
7 <u>Typical Bench Detail</u> 3/4" = 1'-0"



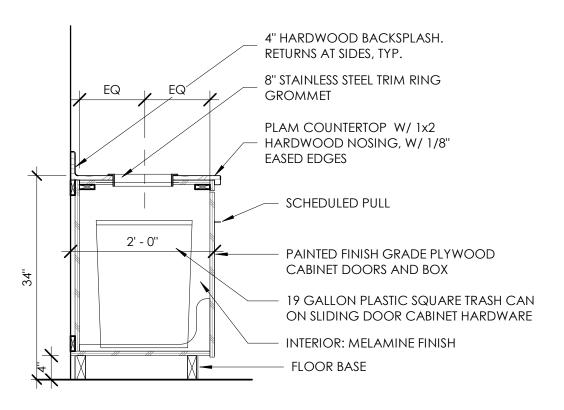
6 <u>Typical Wall-Mounted Shelf Detail</u> 3/4" = 1'-0"



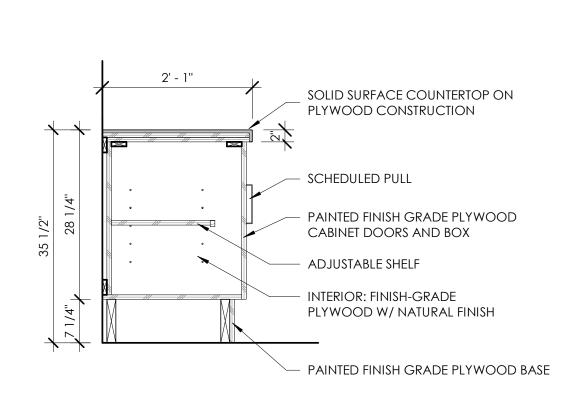
5 <u>Typical Countertop Detail</u> 3/4" = 1'-0"



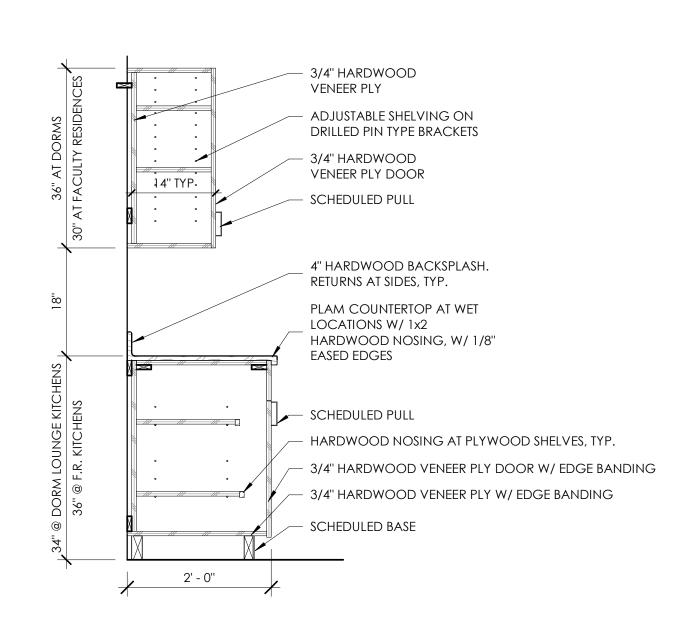
4 Bathroom Countertop Section
3/4" = 1'-0"



3 <u>Typical Trash/Recylcle Cabinet</u> 3/4" = 1'-0"



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



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



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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH MILLWORK

4W-9.1

IUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
001	CDAW/ CDACE					
001	CRAWL SPACE ELECTRICAL					
003	MECHANICAL					
004	STUDENT STORAGE					
005	F.R. STORAGE					
006	KUA STORAGE					
007	LAUNDRY	SEALED CONC.	RUBBER	GWB	GWB	
800	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 DORM - DBL	LINOLEUM	RUBBER RUBBER	GWB GWB	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.			21112	21/2	
160	STAIR B	RUBBER	RUBBER	GWB	GWB	
201	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
202	DORM - DBL DORM - DBL	LINOLEUM	RUBBER RUBBER	GWB GWB	GWB GWB	
203	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
204	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 DODGELAIN THE	WOOD	GWB	GWB	
A104 A105	BATH BEDROOM	PORCELAIN TILE WOOD	CT WAINSCOT WOOD	GWB GWB	GWB GWB	
A105 A105A	CL.	WOOD	WOOD	GWB	GWB	
A105A	LIVING ROOM	WOOD	WOOD	GWB	GWB	
A106	KITCHEN-DINING	WOOD	WOOD	GWB	GWB	
A107	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	
	W/D	WOOD	WOOD	GWB	GWB	
A204A			WOOD	GWB	GWB	
A205	CL.	WOOD		a	61445	
A205 A206	BATH	PORCELAIN TILE	CT WAINSCOT	GWB	GWB	
A205 A206 A207	BATH BEDROOM	PORCELAIN TILE WOOD	CT WAINSCOT WOOD	GWB	GWB	
A205 A206 A207 A208	BATH BEDROOM BATH	PORCELAIN TILE WOOD PORCELAIN TILE	CT WAINSCOT WOOD CT WAINSCOT	GWB GWB	GWB GWB	
A205 A206 A207 A208 A209	BATH BEDROOM BATH BEDROOM	PORCELAIN TILE WOOD PORCELAIN TILE WOOD	CT WAINSCOT WOOD CT WAINSCOT WOOD	GWB GWB GWB	GWB GWB GWB	
A205 A206 A207 A208 A209 E001	BATH BEDROOM BATH BEDROOM BASEMENT	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN	GWB GWB GWB EXIST. TO REMAIN	GWB GWB GWB EXIST. TO REMAIN	
A205 A206 A207 A208 A209 E001 E101	BATH BEDROOM BATH BEDROOM BASEMENT ENTRY	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN PORCELAIN TILE	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN WOOD	GWB GWB GWB EXIST. TO REMAIN GWB	GWB GWB GWB EXIST. TO REMAIN GWB	REFINISH WOOD LINDER LINOLEUM OR NEW WOOD
A205 A206 A207 A208 A209 E001 E101	BATH BEDROOM BATH BEDROOM BASEMENT ENTRY KITCHEN-DINING	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN PORCELAIN TILE WOOD	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN WOOD WOOD	GWB GWB GWB EXIST. TO REMAIN GWB GWB	GWB GWB GWB EXIST. TO REMAIN GWB GWB	REFINISH WOOD UNDER LINOLEUM OR NEW WOOD REFINISH FLOOR
A205 A206 A207 A208 A209 E001 E101 E102 E102A	BATH BEDROOM BATH BEDROOM BASEMENT ENTRY KITCHEN-DINING CL	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN PORCELAIN TILE WOOD WOOD	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN WOOD WOOD WOOD	GWB GWB GWB EXIST. TO REMAIN GWB GWB GWB	GWB GWB GWB EXIST. TO REMAIN GWB GWB GWB	REFINISH FLOOR
A205 A206 A207 A208 A209 E001 E101 E102 E102A E103	BATH BEDROOM BATH BEDROOM BASEMENT ENTRY KITCHEN-DINING	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN PORCELAIN TILE WOOD	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN WOOD WOOD	GWB GWB GWB EXIST. TO REMAIN GWB GWB GWB GWB GWB	GWB GWB GWB EXIST. TO REMAIN GWB GWB	REFINISH FLOOR REFINISH FLOOR
A205 A206 A207 A208 A209 E001	BATH BEDROOM BATH BEDROOM BASEMENT ENTRY KITCHEN-DINING CL W/D	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN PORCELAIN TILE WOOD WOOD WOOD	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN WOOD WOOD WOOD WOOD	GWB GWB GWB EXIST. TO REMAIN GWB GWB GWB	GWB GWB GWB EXIST. TO REMAIN GWB GWB GWB GWB	REFINISH FLOOR
A205 A206 A207 A208 A209 E001 E101 E102 E102A E103 E104	BATH BEDROOM BATH BEDROOM BASEMENT ENTRY KITCHEN-DINING CL W/D LIVING ROOM	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN PORCELAIN TILE WOOD WOOD WOOD WOOD	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN WOOD WOOD WOOD WOOD WOOD WOOD	GWB GWB EXIST. TO REMAIN GWB GWB GWB GWB GWB GWB GWB	GWB GWB EXIST. TO REMAIN GWB GWB GWB GWB GWB GWB GWB	REFINISH FLOOR REFINISH FLOOR
A205 A206 A207 A208 A209 E001 E101 E102 E102A E103 E104 E105	BATH BEDROOM BATH BEDROOM BASEMENT ENTRY KITCHEN-DINING CL W/D LIVING ROOM BATH	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN PORCELAIN TILE WOOD WOOD WOOD WOOD PORCELAIN TILE	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN WOOD WOOD WOOD WOOD WOOD TILE	GWB GWB GWB EXIST. TO REMAIN GWB GWB GWB GWB GWB GWB GWB GWB	GWB GWB GWB EXIST. TO REMAIN GWB GWB GWB GWB GWB GWB GWB GWB	REFINISH FLOOR REFINISH FLOOR
A205 A206 A207 A208 A209 E001 E101 E102 E102A E103 E104 E105 E201	BATH BEDROOM BATH BEDROOM BASEMENT ENTRY KITCHEN-DINING CL W/D LIVING ROOM BATH BATH	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN PORCELAIN TILE WOOD WOOD WOOD WOOD PORCELAIN TILE PORCELAIN TILE	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN WOOD WOOD WOOD WOOD WOOD TILE TILE	GWB GWB GWB EXIST. TO REMAIN GWB	GWB GWB GWB EXIST. TO REMAIN GWB	REFINISH FLOOR REFINISH FLOOR REFINISH FLOOR
A205 A206 A207 A208 A209 E001 E101 E102 E102A E103 E104 E105 E201 E202	BATH BEDROOM BATH BEDROOM BASEMENT ENTRY KITCHEN-DINING CL W/D LIVING ROOM BATH BATH BEDROOM	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN PORCELAIN TILE WOOD WOOD WOOD WOOD PORCELAIN TILE PORCELAIN TILE	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN WOOD WOOD WOOD WOOD WOOD TILE TILE WOOD	GWB GWB GWB EXIST. TO REMAIN GWB	GWB GWB GWB EXIST. TO REMAIN GWB	REFINISH FLOOR REFINISH FLOOR REFINISH FLOOR REFINISH EXIST. WOOD FLOOR
A205 A206 A207 A208 A209 E001 E101 E102 E102A E103 E104 E105 E201 E202 E203	BATH BEDROOM BATH BEDROOM BASEMENT ENTRY KITCHEN-DINING CL W/D LIVING ROOM BATH BATH BEDROOM CL	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN PORCELAIN TILE WOOD WOOD WOOD WOOD PORCELAIN TILE PORCELAIN TILE WOOD WOOD WOOD WOOD WOOD WOOD WOOD WOO	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN WOOD WOOD WOOD WOOD TILE TILE WOOD WOOD	GWB GWB GWB EXIST. TO REMAIN GWB	GWB GWB GWB EXIST. TO REMAIN GWB	REFINISH FLOOR REFINISH FLOOR REFINISH FLOOR REFINISH EXIST. WOOD FLOOR
A205 A206 A207 A208 A209 E001 E101 E102 E102A E103 E104 E105 E201 E202 E203 E204	BATH BEDROOM BATH BEDROOM BASEMENT ENTRY KITCHEN-DINING CL W/D LIVING ROOM BATH BATH BEDROOM CL BATH	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN PORCELAIN TILE WOOD WOOD WOOD WOOD PORCELAIN TILE PORCELAIN TILE WOOD WOOD PORCELAIN TILE PORCELAIN TILE PORCELAIN TILE PORCELAIN TILE	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN WOOD WOOD WOOD WOOD TILE TILE WOOD WOOD CT	GWB GWB GWB EXIST. TO REMAIN GWB	GWB GWB GWB EXIST. TO REMAIN GWB	REFINISH FLOOR REFINISH FLOOR REFINISH FLOOR REFINISH EXIST. WOOD FLOOR REFINISH EXIST. WOOD FLOOR
A205 A206 A207 A208 A209 E001 E101 E102 E102A E103 E104 E105 E201 E202 E203 E204 E205	BATH BEDROOM BATH BEDROOM BASEMENT ENTRY KITCHEN-DINING CL W/D LIVING ROOM BATH BATH BEDROOM CL BATH HALL	PORCELAIN TILE WOOD PORCELAIN TILE WOOD EXIST. TO REMAIN PORCELAIN TILE WOOD WOOD WOOD WOOD PORCELAIN TILE PORCELAIN TILE WOOD WOOD PORCELAIN TILE WOOD WOOD WOOD WOOD	CT WAINSCOT WOOD CT WAINSCOT WOOD EXIST. TO REMAIN WOOD WOOD WOOD WOOD TILE TILE WOOD WOOD CT WOOD	GWB GWB GWB EXIST. TO REMAIN GWB	GWB GWB GWB EXIST. TO REMAIN GWB	REFINISH FLOOR REFINISH FLOOR REFINISH FLOOR REFINISH EXIST. WOOD FLOOR REFINISH EXIST. WOOD FLOOR REFINISH EXIST. WOOD FLOOR

- 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.

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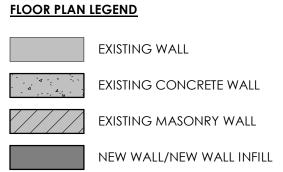
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KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH INTERIOR FINISHES SCHEDULE



FLOOR FINISH LEGEND

SEALED CONC./RUBBER

EXIST. TO REMAIN

SEALED CONC.

CARPET TILE



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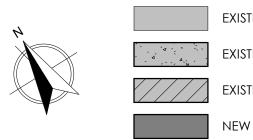
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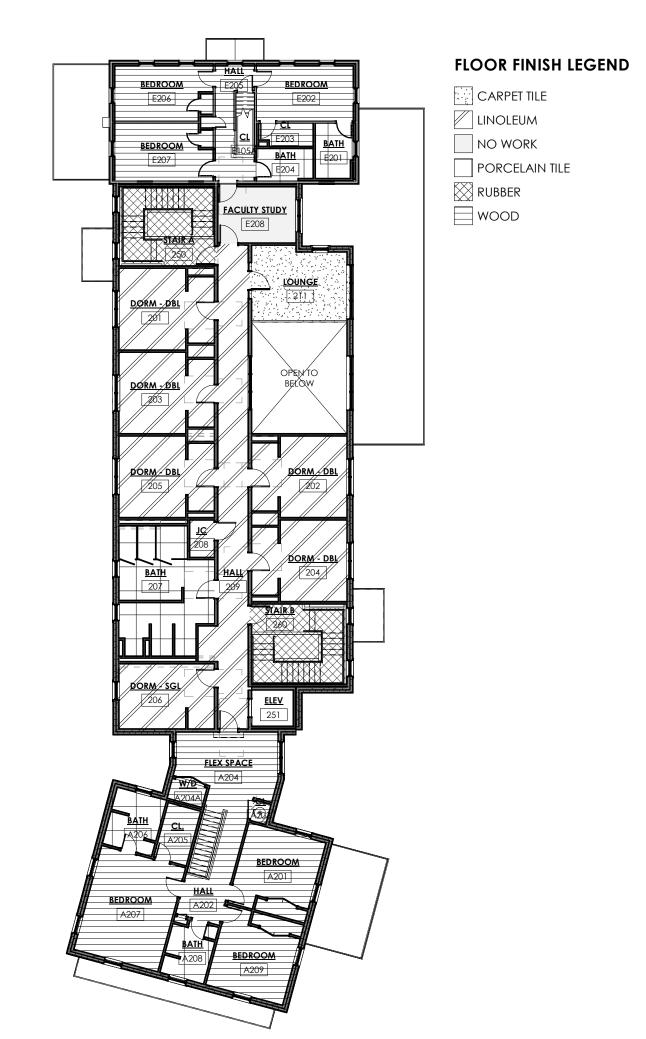
Main Street, Meriden, NH 03770

WELCH FLOOR FINISH PLANS

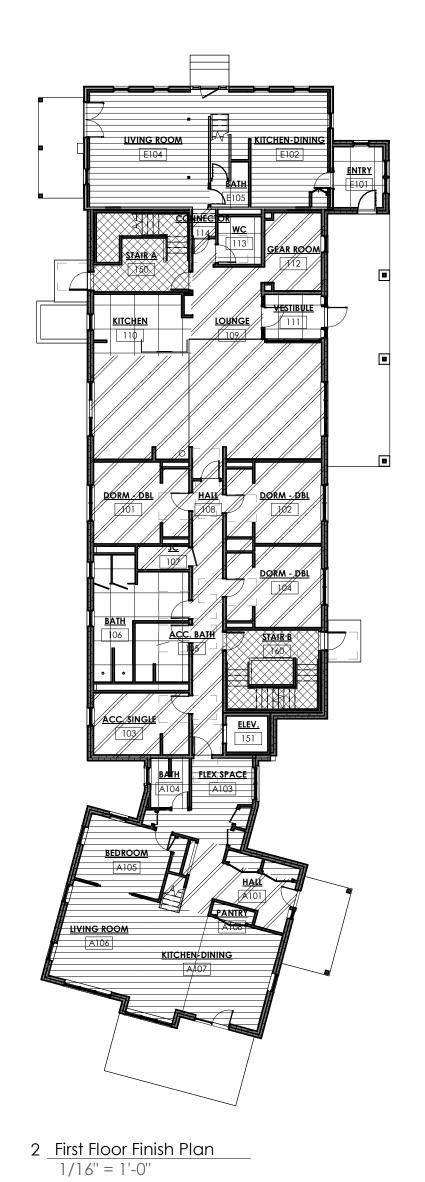
AW-10.1a







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

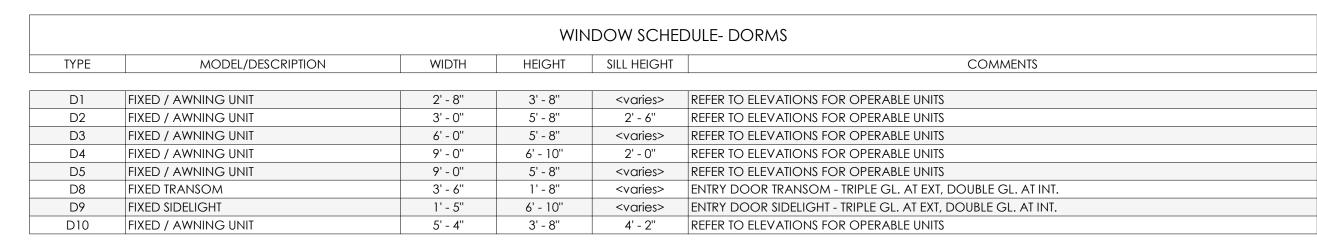


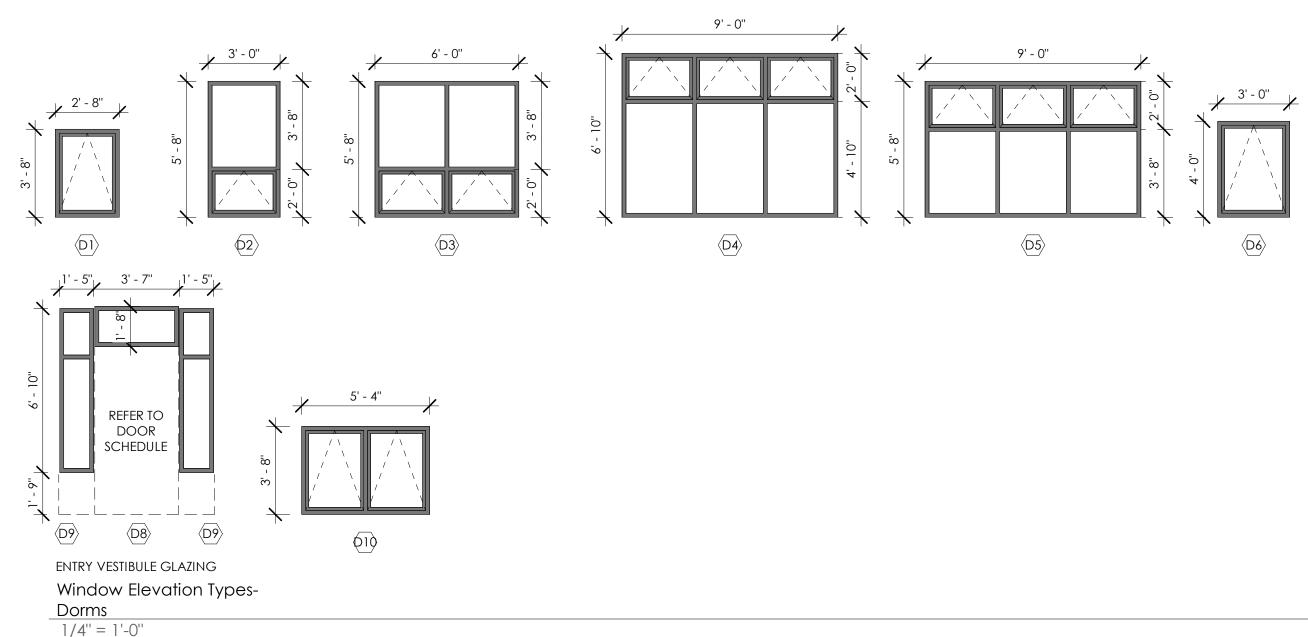
FLOOR FINISH LEGEND CARPET TILE LINOLEUM PORCELAIN TILE RUBBER WOOD

CRAWL SPACE F.R. STORAGE ELECTRICAL STUDENT STORAGE 004

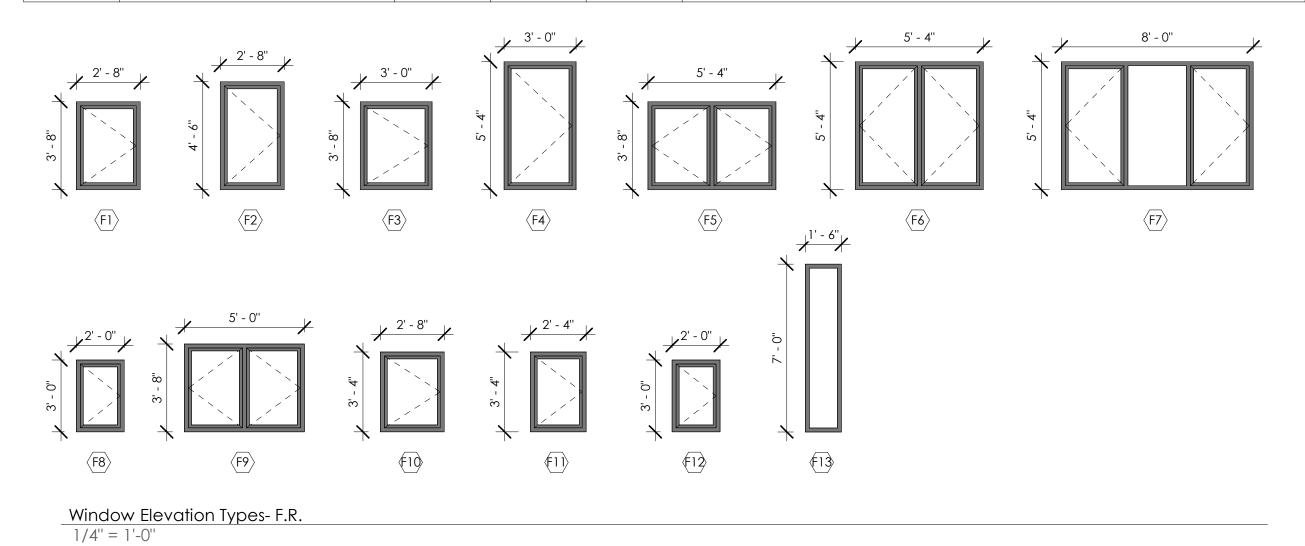
1 Basement Finish Plan
1/16" = 1'-0"

5/16/2023 5:11:29 PM





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



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

1							
>					WINI	DOW SCHEE	DULE- INTERIOR
	TYPE		MODEL/DESCRIPTION	WIDTH	HEIGHT	SILL HEIGHT	COMMENTS
>	i2	FIXED		9' - 0"	3' - 8"	3' - 6"	
7	$\overline{}$	\sim	\sim	\sim	$\overline{}$		



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

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KILTON/WELCH
DORMITORIES

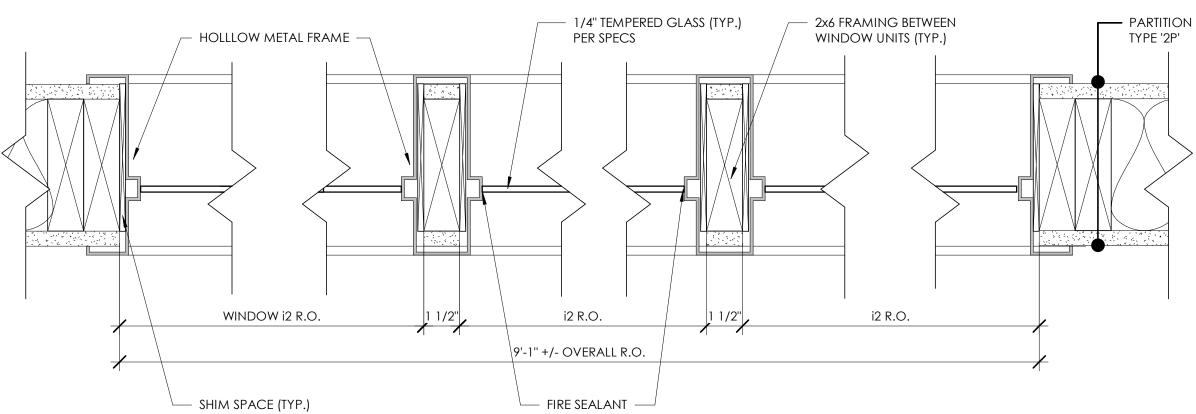
Main Street, Meriden, NH 03770

WELCH WINDOW SCHEDULE

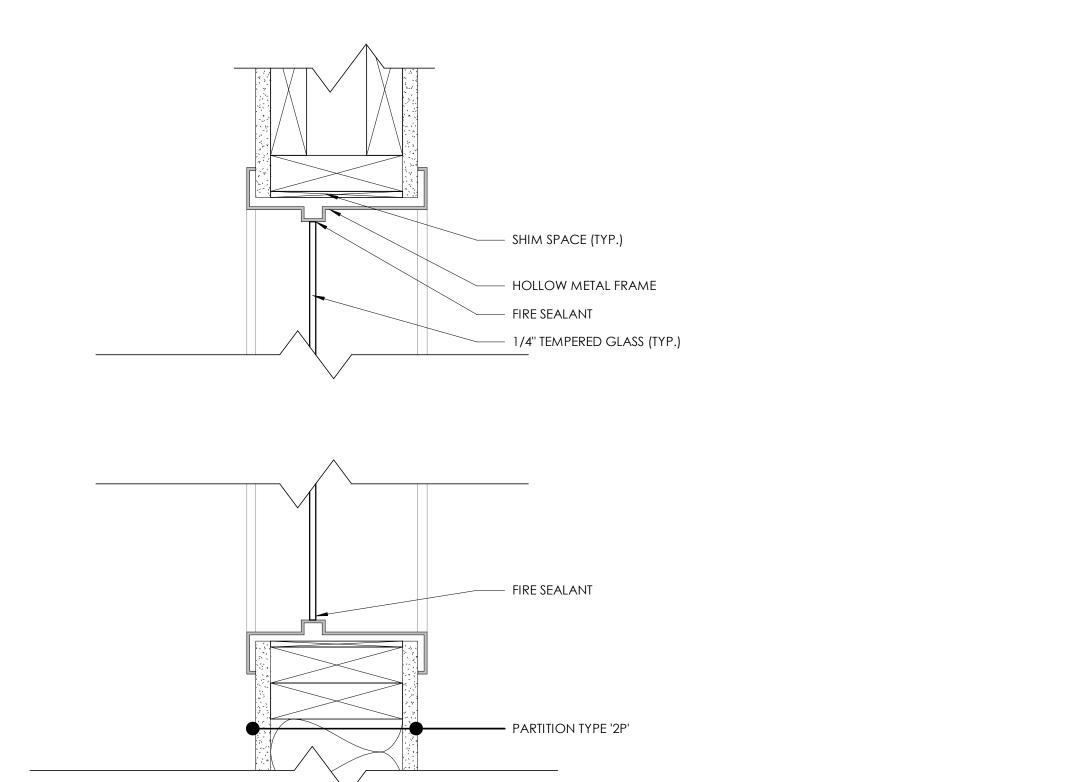
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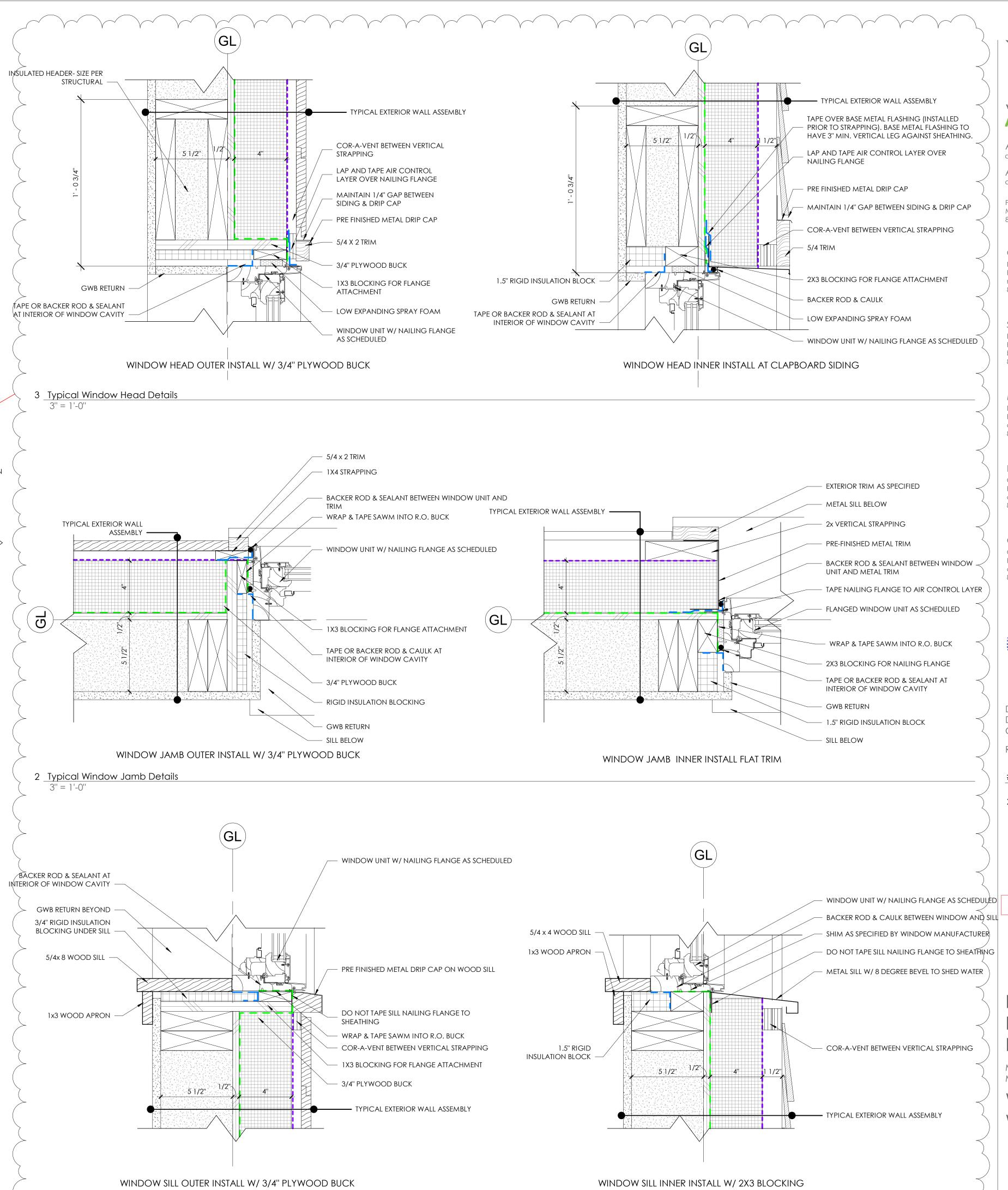
SECTION DETAILS AND MATERIALS LEGEND WEATHER RESISTIVE BARRIER (WRB)/ -----STONE FILL VAPOR CONTROL LAYER (VCL) AIR CONTROL LAYER (ACL) UNDER SLAB VAPOR CONTROL LAYER TAPE OR SELF ADHERING WATERPROOFING MEMBRANE (SAWM) AT EDGES/ JOINTS/ INTERSECTIONS CLOSED CELL SPRAY FOAM INSULATION WOOD FINISH GRADE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

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



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





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

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KUA
KILTON/WELCH
DORMITORIES

Main Street, Meriden, NH 03770

WELCH
WINDOW DETAILS

4W-10.3

4 <u>Interior Window Detail</u> 3" = 1'-0"

HEAD / SILL DETAIL

JAMB DETAIL

5/16/2023 5:11:32 PM

										FXT	ERIOR DOOR SCH	FDUI F									
	INTO RC	OOM			DOOR				FRAME		LBL.			HARDW	ARE SETS						
						SIZE													<u>_</u>		4
MARK	NAME	NUMBER	ELEVATION TYPE	material/ fini:	SH W.	Н.	TH.	FRAME ELEVATION	FRAME MATERIAL	THRESHOLD MATERIAL	U.L. RATING MIN./HRS.	LOCK FUNCTION	Lockset/Trim	Closer Fire Exit Device	Alarmed	Silencers	Stops/Bumpers	Inreshold Weather Strip	Mag. Hold-Ope	Dec Strike COMMENTS	
DORMS				_										,							
006	HALL	800	A	MTL/PTD	5' - 0''	7' - 0''	1 3/4"	H2	HM	AL		SERVICE	X	X		X	Χ	Х Х		FOR BILCO DOOR AREAWAY	\prec
111	VESTIBULE	111	D	CLAD	3' - 6"	7' - 0''	1 3/4"	A1	AL	AL		ENTRANCE	X X	Х Х	X	(X	Χ	X X		X TRIPLE GLAZED - COORD. SIDELIGHTS W/ WINDOW SCHEDULE	
111A	VESTIBULE	111	D	CLAD	3' - 6"	7' - 0''	1 3/4"	A1	AL	AL		PASSAGE?	X	X	×	(X	Χ	Х Х		X DOUBLE GLAZED - COORD. SIDELIGHTS W/ WINDOW SCHEDULE	
150	STAIR A	150	С	MTL/PTD	3' - 0''	7' - 0''	1 3/4"	H1	НМ	AL		FIRE DOOR	X	Х Х	X	X	Χ	Х Х		FIRE DOOR - PANIC HARDWARE W/ ALARM	
160	STAIR B	160	С	MTL/PTD	3' - 0''	7' - 0''	1 3/4"	H1	НМ	AL		FIRE DOOR	X	Х Х	X	X		Х Х		FIRE DOOR - PANIC HARDWARE W/ ALARM	$\overline{}$
EXISTING FACI	JLTY RES.	,								,			,	,				,			
E101	ENTRY	E101	G	FG/PTD	3' - 0''	7' - 0''	1 3/4"	H1	НМ	AL		ENTRANCE	X			X		Х Х			
E104	LIVING ROOM	E104	EXTG	EXTG	3' - 0''	6' - 8''	1 3/8"	EXTG	EXTG			EXTG								EXISTING DOOR - NO WORK (PAINT ONLY)	
E104A	LIVING ROOM	E104	G	CLAD	6' - 0 5/8"	6' - 10''	1 3/4"	A2	AL	AL		ENTRANCE	X			Х		Х Х		·	$\overline{}$
FACULTY RES.	1		1												-	-		I			
A101	HALL	A101	G	CLAD	3' - 0 5/16"	7' - 2''	1 3/4"	A1	AL	AL		ENTRANCE	X			Х		Х Х			
A107	KITCHEN-DINING	A107	G	CLAD	5' - 11"	7' - 2''	1 3/4"	A2	AL	AL		ENTRANCE	X			Х		Х Х			
Λ	λ λ		~\\	1	~	\sim			\	1	~\\	λ λ	1 1					~			

	INTO ROC	DM		DOC	OR				FRAME		LBL.			ŀ	HARDWARE SETS							
	NAME	NUMBER	ELEVATION TYPE	MATERIAL/ FINISH	W	SIZE	TLI	FRAME ELEVATION	FRAME MATERIAL	THRESHOLD MATERIAL	U.L. RATING MIN./HRS.	LOCK FUNCTION	.ockset/Trim	Closer	ire Exit Device	ADA Opener ilencers	itops/Bumpers	hreshold Veather Strip	Aag. Hold-Open	moke Seal	COMMENTS	X
	NAME	NUMBER	ELEVAIION TYPE	MATERIAL/ FINISH	vv.	Н.	IH.	FRAME ELEVATION	FRAME MATERIAL	IHRESHOLD MATERIAL	MIIN./ HRS.	LOCK FUNCTION			ഥ ∢	4 ν	<u> </u>	<u> </u>	2	S	COMMENIS	
	BASEMENT	E001	A	WD/PTD	3' - 0"	4' - 0"	1 3/4"	H1	НМ		20 MIN.	SERVICE	X			X		X				
A 2	CRAWL SPACE ELECTRICAL	001	A	WD/PTD WD/PTD	3' - 0" 3' - 0"	4' - 0'' 7' - 0''	1 3/4"	H1	HM HM			SERVICE SERVICE	X	X	X	X		X				
	MECHANICAL LAUNDRY	003	A	WD/PTD WD/CLR	3' - 0" 3' - 0"	7' - 0'' 7' - 0''	1 3/4" 1 3/4"	H1	HM HM		45 MIN.	SERVICE PASSAGE	X	X		X	X	V				
	ELEV.	051	D	WD/CLR	3' - 0"	7 - 0''	1 3/4"	П	HM		60 MIN.	PASSAGE	X	X		X	,,	X			ELEVATOR DOOR BY MANUFACTURER/SUPPLIER. VERIFY DOOR SIZES.	
	STAIR B DORM - DBL	060	В	WD/CLR WD/CLR	3' - 0"	7' - 0'' 7' - 0''	1 3/4"	H1	HM HM		60 MIN. 20 MIN.	PASSAGE	X	X	X	X	X	Х		Y		
	DORM - DBL	101	A	WD/CLR WD/CLR	3' - 0" 3' - 0"	7 - 0"	1 3/4"	H1	HM		20 MIN.	OFFICE OFFICE	X	X		X				X		
	ACC. SINGLE DORM - DBL	103 104	A	WD/CLR WD/CLR	3' - 0" 3' - 0"	7' - 0'' 7' - 0''	1 3/4"	H1	HM HM		20 MIN. 20 MIN.	OFFICE OFFICE	X	X		X				X		
	ACC. BATH	105	A	WD/CLR	3' - 0''	7' - 0''	1 3/4"	H1	HM		20 MIN.	PRIVACY	X	X		X	Х			٨		
	BATH JC	106	A	WD/CLR WD/CLR	3' - 0" 3' - 0"	7' - 0'' 7' - 0''	1 3/4"	H1	HM HM		20 MIN.	PUSH/PULL SERVICE	X	X			X					
<mark>/</mark> 3	HALL	107	B B	WD/CLR WD/CLR	3' - 0"	7' - 0''	1 3/4"	HI	HM		20 MIN.	PASSAGE	X X		X	X		^	X			
3	WC GEAR ROOM	113	A	WD/CLR WD/CLR	3' - 0" 2' - 6"	7' - 0'' 7' - 0''	1 3/4" 1 3/4"	H1	HM HM		60 MIN. 20 MIN.	PRIVACY ENTRANCE	X	X		X	X	X				
ł A	STAIR A	112	B	WD/CLR WD/CLR	3' - 0"	7' - 0"	1 3/4"	H1	HM HM		60 MIN.	PASSAGE	X		X	X		X				
l A	ELEV.	151	D	WDICLD	3' - 0"	7' - 0''	1 3/4"	111	HM HM		60 MIN.	PASSAGE	X	X	V		X	Х			ELEVATOR DOOR BY MANUFACTURER/SUPPLIER. VERIFY DOOR SIZES.	
	STAIR B DORM - DBL	201	<u>Б</u>	WD/CLR WD/CLR	3' - 0'' 3' - 0''	7' - 0'' 7' - 0''	1 3/4" 1 3/4"	H1	HM HM		60 MIN. 20 MIN.	PASSAGE OFFICE	X	X	X	X				X		
	DORM - DBL	202 203	A	WD/CLR WD/CLR	3' - 0''	7' - 0''	1 3/4"	H1	HM HM		20 MIN.	OFFICE	X	X		X				X		
	DORM - DBL DORM - DBL	203	A A	WD/CLR WD/CLR	3' - 0" 3' - 0"	7' - 0'' 7' - 0''	1 3/4"	H1	HM HM		20 MIN. 20 MIN.	OFFICE OFFICE	X	X		X				X		
	DORM - DBL	205	A	WD/CLR	3' - 0"	7' - 0''	1 3/4"	H1	HM		20 MIN.	OFFICE	X	X		X				X		
	DORM - SGL BATH	206 207	A A	WD/CLR WD/CLR	3' - 0'' 3' - 0''	7' - 0'' 7' - 0''	1 3/4"	H1	HM HM		20 MIN. 20 MIN.	OFFICE PUSH/PULL	X	X		X	X	X		X		
3	JC LOUNCE	208	A	WD/CLR	3' - 0''	7' - 0''	1 3/4"	H1	HM		20 MIN.	SERVICE	X	X		X				V	10" SIDELICUT EACH SIDE OF DOOD	}
<u>)</u> I	LOUNGE STAIR A	211 250	G B	WD/CLR WD/CLR	3' - 0" 3' - 0"	7' - 0'' 7' - 0''	1 3/4" 1 3/4"	H3C H1	HM HM		60 MIN.	PASSAGE PASSAGE	X	X	X	X				Χ	18" SIDELIGHT EACH SIDE OF DOOR	
	ELEV	251 260	D		3' - 0"	7' - 0''	1 3/4"		HM		60 MIN.	PASSAGE	X	X	V		X				ELEVATOR DOOR BY MANUFACTURER/SUPPLIER. VERIFY DOOR SIZES.	Ä.
) FA(STAIR B CULTY RES.	∠ 6U	В	WD/CLR	3' - 0"	7' - 0''	1 3/4"	H1	HM		60 MIN.	PASSAGE	X	X	X	X	X	X				`
)2	KITCHEN-DINING	E102	F	WD/CLR	2' - 8"	6' - 8"	1 3/8"	P1	WD			PASSAGE	X			X	Х	Х				
2A 5	CL BATH	E102A E105	F	WD/CLR WD/CLR	2' - 6" 2' - 6"	6' - 8" 6' - 8"	1 3/8"	P2	WD WD			PUSH/PULL PRIVACY	X			X	X	X				
5A	BATH	E105	F	WD/CLR	2' - 6"	6' - 8''	1 3/8"	P1	WD			PASSAGE?	X			X					BASEMENT DOOR	
2	BATH BEDROOM	E201 E202	EXTG	WD/CLR EXTG	2' - 6"	6' - 8"	1 3/8"	P1 EXTG	WD EXTG			PRIVACY EXTG	X			X	X	X			PAINT	
3	BEDROOM	E202	EXTG	EXTG	2' - 6"	6' - 8''	1 3/8"	EXTG	EXTG			EXTG									PAINT	2
4 5	BATH FACULTY STUDY	E204 E208	F F	WD/CLR WD/CLR	2' - 6" 3' - 0"	6' - 8'' 7' - 0''	1 3/8" 1 3/4"	P1	WD WD			PRIVACY ENTRANCE	X	X			X					
iΑ	CL	E205A	F	WD/CLR	1' - 9"	6' - 8''	1 3/8"	P1	WD			PUSH/PULL				X						<u> </u>
6 6	HALL BEDROOM	E205 E206	EXTG EXTG	EXTG EXTG	2' - 6" 2' - 6"	6' - 8"	1 3/8"	EXTG EXTG	EXTG EXTG			EXTG EXTG									PAINT PAINT	
SA	BEDROOM	E206	F	WD/CLR	2' - 6"	6' - 8''	1 3/8"	P1	WD			PUSH/PULL									PAINT	
7 'A	BEDROOM BEDROOM	E207 E207	EXTG F	WD/CLR WD/CLR	2' - 6"	6' - 8" 6' - 8"	1 3/8"	P1	WD WD			EXTG PUSH/PULL				X					PAINT	
8	FACULTY STUDY	E208	E	WD/CLR WD/CLR	3' - 0"	7' - 0"	1 3/4"	P1	WD		20 MIN.	OFFICE	X	X		X	Х		X			
RES 1 A		A101A	F	WD/CLR	5' - 0''	6' - 8''	1 3/8"	P1	WD			PUSH/PULL				X						K
1B	CL.	A101B	F	WD/CLR	5' - 0''	6' - 8''	1 3/8"	P1	WD			PUSH/PULL				X						<u></u>
)2)3	M. CL. FLEX SPACE	A102 A103	F A	WD/CLR WD/CLR	2' - 6" 3' - 0"	6' - 8'' 7' - 0''	1 3/8"	P1	WD HM		20 MIN.	SERVICE ENTRANCE	X	X		X	X					
3A	CL.	A103A	F	WD/CLR	2' - 6''	6' - 8''	1 3/8"	P1	WD			SERVICE	X			X						The state of the s
3B)4	CL. BATH	A103B A104	F	WD/CLR WD/CLR	2' - 0'' 2' - 8''	6' - 8'' 6' - 8''	1 3/8"	P1	WD WD			SERVICE PRIVACY	X	X		X		X				
5	BEDROOM	A105	F	WD/CLR	2' - 8''	6' - 8''	1 3/8"	P1	WD			PASSAGE	X	٨		X		^				
4	CL. BEDROOM	A105A A105	F	WD/CLR WD/CLR	<mark>2' - 6"</mark> 6' - 0"	6' - 0" 6' - 8"	1 3/8" 1 3/8"	P1	WD WD			PUSH/PULL POCKET SL.				X						
}	KITCHEN-DINING	A103	F	WD/CLR	5' - 0''	6' - 8"	1 3/8"	P1	WD			PUSH/PULL				X						
A	BEDROOM	A201 A201	F	WD/CLR	2' - 8''	6' - 8"	1 3/8"	P1	WD WD			PASSAGE PUSH/PULL	X			X	X					
4	BEDROOM HALL	A201 A202	F	WD/CLR WD/CLR	5' - 0" 1' - 6"	6' - 8" 6' - 8"	1 3/8" 1 3/8"	P1 H1	WD HM			PUSH/PULL PUSH/PULL				X					LINEN CL.	
	CL	A203	F	WD/CLR	3' - 0''	6' - 8''	1 3/8"	P1	WD		00.1411	SERVICE	X			X	V.	V	.,			
	HALL W/D	209 A204A	A F	WD/CLR WD/CLR	3' - 0'' 5' - 0''	6' - 8" 6' - 8"	1 3/8" 1 3/8"	P1	HM WD		20 MIN.	ENTRANCE PUSH/PULL	X	X		X		X	X			
	CL.	A205	F	WD/CLR	2' - 6"	6' - 8''	1 3/8"	P1	WD			SERVICE	X			X						
_	BATH	A206	F	WD/CLR	2' - 6"	6' - 8"	1 3/8"	P1	WD			PRIVACY	X	X			Х	X				
,	BEDROOM	A207	F	WI)/(.I R	7' - 8"	K 8	1.3/8"	P1	WD.			PASSAGE	X			X	χ					1
	BEDROOM BATH HALL	A207 A208 A202	F	WD/CLR WD/CLR WD/CLR	2' - 8" 2' - 8" 2' - 8"	6' - 8" 6' - 8" 6' - 8"	1 3/8" 1 3/8" 1 3/8"	P1 P1	WD WD WD			PASSAGE PRIVACY PASSAGE	XXXX	X		XXXX	Х	X				



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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

KUA KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

WELCH DOOR SCHEDULE

DOOR SCHEDULE NOTES:

- ALL DIMENSIONS TO BE VERIFIED IN FIELD
- ALL GLAZING TO BE TEMPERED AS REQUIRED BY CODE, TYP.
- ALL GLAZED DOORS REQUIREING 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 CLD Aluminum Clad CLR Clear FG HM MTL PTD Fiberglass Hollow Metal Metal Painted Thermally Broken WD

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



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(2) 2x HEADER SEE STRUCTURAL

CAULK ALL EDGES OF HOLLOW METAL FRAMES AT ENTRY DOORS FOR SOUND MITIGATION, TYP.

THROAT SIZE 1/4" WIDER THAN TOTAL WALL THICKNESS, TYP. AT ALL

STUFF W/ MINERAL WOOL

- WALL BEYOND

DOOR PANEL

STRIP TYPICAL

- SOUND GASKET OR BRUSHES

- FLOORING TRANSITION

FLOORING PER SCHEDULE

- SOUND GASKET

- DOOR PANEL

4 Typical HM Door Head

1 1/2" = 1'-0"

3 Typical HM Door Sill Detail

1 1/2" = 1'-0"

Description # Date

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

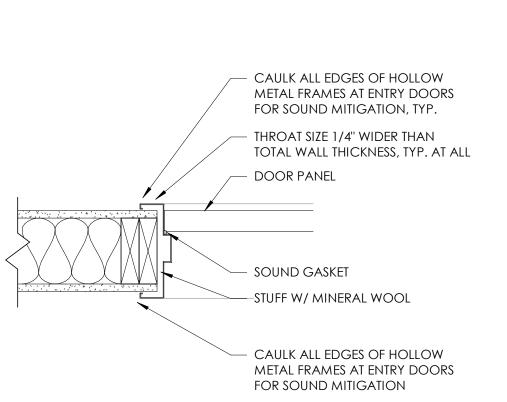
2 05/15/23 Scope Changes to Bid Set #1

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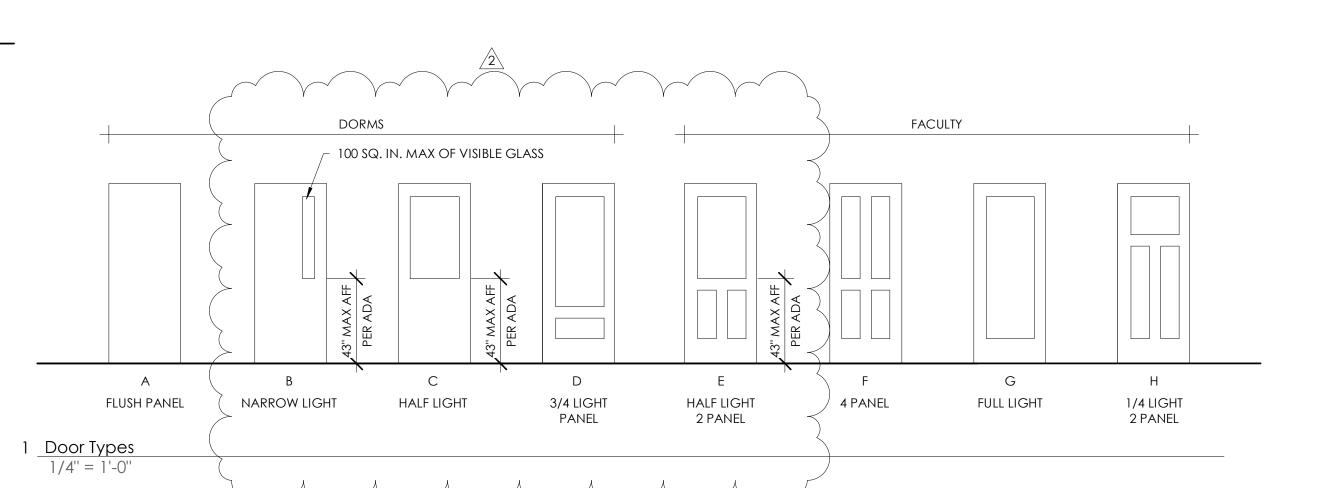
KUA KILTON/WELCH DORMITORIES

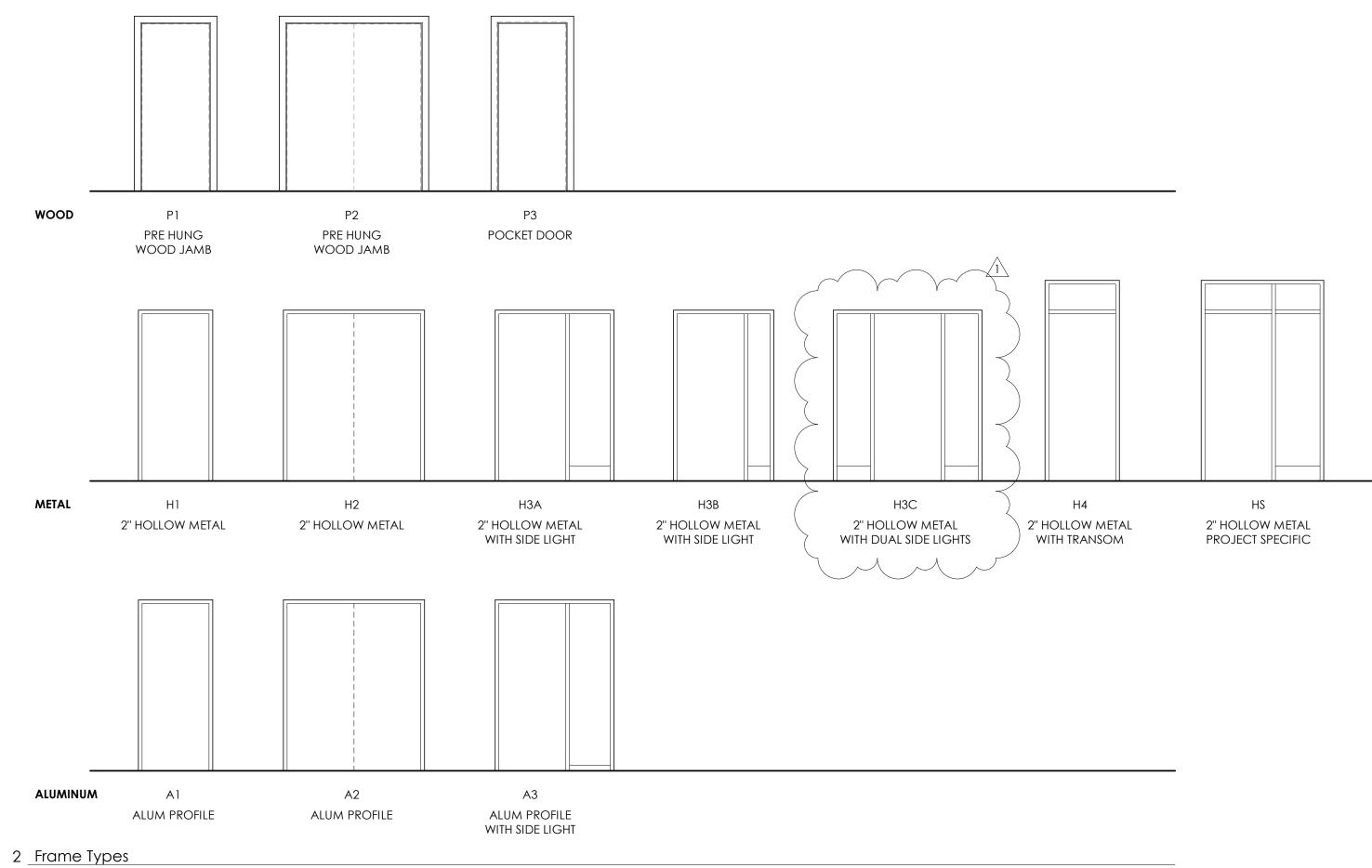
Main Street, Meriden, NH 03770

WELCH DOOR SCHEDULE & DETAILS



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





1/4'' = 1'-0''



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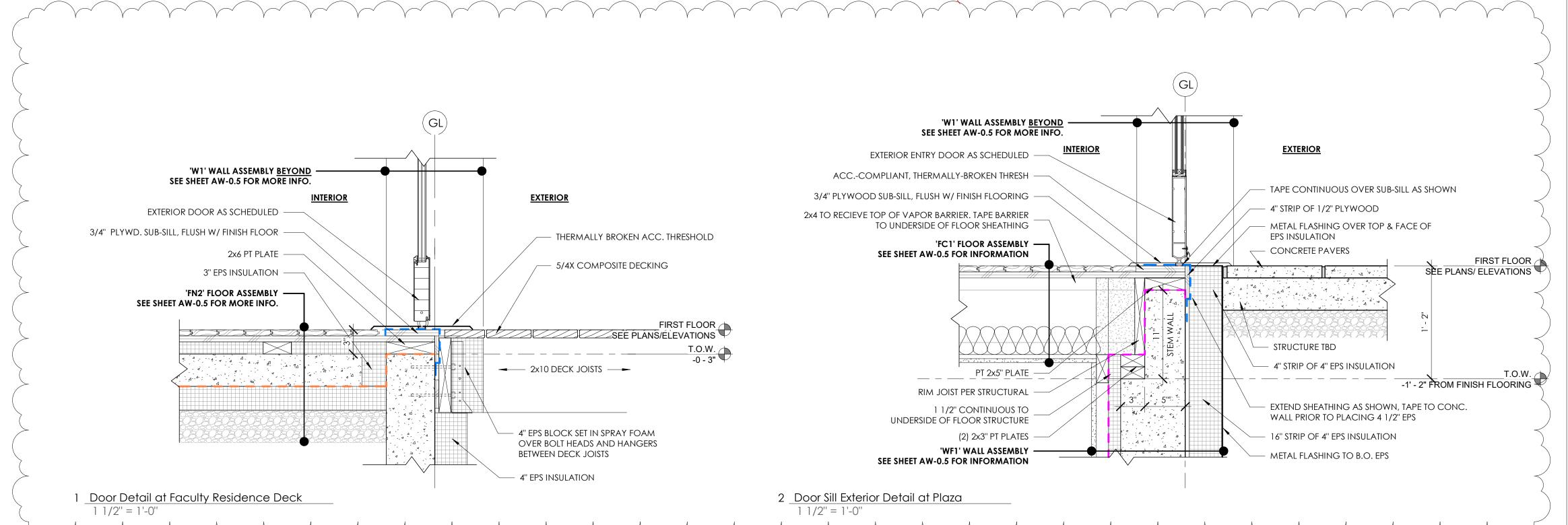
KUA
KILTON/WELCH
DORMITORIES

Main Street, Meriden, NH 03770

WELCH DOOR DETAILS

AW-10.6





A. GENERAL NOTES

- 1. ALL STRUCTURAL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS, DRAWINGS, AND THE 2018 NEW HAMPSHIRE
- 2. CONTRACTOR SHALL COORDINATE STRUCTURAL WORK WITH RELATED TRADES AND WITH OTHER DESIGN DISCIPLINE REQUIREMENTS PRIOR TO MAKING SUBMITTALS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PERFORMING WORK.
- 3. REFER TO OTHER DESIGN DISCIPLINE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REQUIRED FOR THE SUBMITTALS AND INSTALLATION OF STRUCTURES, INCLUDING BUT NOT LIMITED TO DIMENSIONS, ELEVATIONS, SLOPES, LOCATIONS OF OTHER SYSTEMS AND EQUIPMENT, OPENINGS, WALLS, STAIRS, FINISHES, COATINGS, AND OTHER NON-STRUCTURAL ITEMS. NOTES PROVIDED ON THE DRAWINGS ARE INTENDED FOR USE IN CONJUNCTION WITH PROJECT SPECIFICATIONS
- 4. DETAILS LABELED AS TYPICAL DETAILS ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH TYPICAL DETAILS SHALL APPLY WHETHER OR NOT THEY ARE DEMARKED AT EACH LOCATION IN THE DRAWINGS. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF A SIMILAR NATURE. VERIFY APPLICABILITY BY SUBMITTALS.
- 5. CONTRACTOR IS RESPONSIBLE FOR COORDINATION DETAILS AND ACCURACY OF THE WORK; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES, FOR TECHNIQUES OF ASSEMBLY IN ACCORDANCE WITH GENERAL CONDITIONS AND DIVISION 1 SPECIFICATION REQUIREMENTS; AND FOR PERFORMING ALL WORK IN A SAFE AND SECURE MANNER IN ACCORDANCE WITH GOVERNING JOB SAFETY STANDARDS.
- 6. CONTRACTOR SHALL VERIFY ALL CONDITIONS AT THE SITE, INCLUDING LOCATIONS OF ALL EXISTING STRUCTURES AND EXISTING UTILITIES ABOVE AND BELOW GROUND (AS ANY INFORMATION SHOWN IS APPROXIMATE AND NOT NECESSARILY COMPLETE.) CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PERFORMING WORK.
- 7. LOADS APPLIED DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS NOTED ON THE DRAWINGS OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTIONS AS DETERMINED BY THE CONTRACTOR. THE STRUCTURAL ELEMENTS OF THE PROJECT AS SHOWN IN THE CONSTRUCTION DOCUMENTS HAVE BEEN DESIGNED FOR THE SPECIFIED VERTICAL AND LATERAL FORCES ACTING ON THE COMPLETED BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND PROVIDE ALL REQUIRED SHORING AND BRACING NEEDED DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF THE PARTIALLY-COMPLETED STRUCTURE AND FOR CONSTRUCTION LOADINGS THAT EXCEED THE SPECIFIED DESIGN LOADS
- 8. SHORING, BRACING, PROTECTING, AND MAINTAINING THE INTEGRITY OF ANY EXISTING, ADJACENT, AND/OR ONGOING PARTIALLY COMPLETED STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR.

B. EXISTING BUILDING NOTES

- . DIMENSIONS, ELEVATIONS, MEMBER SIZES, AND DETAILS OF EXISTING STRUCTURE SHOWN IN THE STRUCTURAL DRAWINGS HAVE BEEN EXTRACTED FROM RECORD DRAWINGS AND/OR LIMITED FIELD MEASUREMENTS. AS SUCH THEY ARE NOT TO BE CONSIDERED SUITABLY ACCURATE FOR ANY CONSTRUCTION WORK SHOWN, INCLUDING FABRICATIONS, SUBMITTALS, ETC. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING CONSTRUCTION, INCLUDING PLUMBNESS OR FLATNESS OF WALLS, FLOORS, ETC. AT THE JOB SITE PRIOR TO SUBMITTAL, FABRICATION OR CONSTRUCTION WORK. ANY DEVIATIONS FOUND IN THE FIELD FROM WHAT IS SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION.
- 2. TEMPORARY SHORING AND BRACING OF FLOORS, WALLS, AND OTHER STRUCTURAL ELEMENTS OF THE EXISTING BUILDINGS REQUIRED TO ACHIEVE THE INSTALLATION OF NEW AND/OR THE REMOVAL OF EXISTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL, AT THEIR DISCRETION AND WHERE SPECIFIED, EMPLOY ENGINEERING SERVICES FOR DESIGN OF TEMPORARY BRACING, SHORING AND PROTECTION. EXISTING BUILDING MOVEMENTS SHALL BE LIMITED TO PREVENT DISTRESS FROM OCCURRING.
- 3. REPORT EXISTING CONDITIONS UNCOVERED, REVEALED, FOUND OR DEVELOPED DURING CONSTRUCTION INDICATIVE OF STRUCTURAL INTEGRITY LOSS OR DETERIORATION, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
- 4. DO NOT CUT, DRILL OR ALTER ANY EXISTING STRUCTURAL ELEMENTS UNLESS SHOWN OR NOTED ON THE STRUCTURAL DRAWINGS WITHOUT NOTIFY THE ARCHITECT FOR REVIEW. INCLUDING TEMPORARY MEASURES OR FOR THE INSTALLATION OF OTHER DESIGN DISCIPLINE WORK.
- 5. MONITORING OF CONSTRUCTION WORK SHALL INCLUDE, BUT IS NOT LIMITED TO FIRE WATCH DURING AND AT LEAST 24 HOURS AFTER ALL STEEL WELDING OR DRILLING, WOOD DRILLING, AND HEAT TRANSFERRING CONSTRUCTION MEASURES. DO NOT ALLOW HEAT OR ENERGY FROM EQUIPMENT TO DAMAGE OR OTHERWISE ALTER EXISTING STRUCTURAL ELEMENTS TO REMAIN.
- 6. FOR EXISTING STEEL ELEMENTS, DO NOT ALLOW THE THROUGH THICKNESS TEMPERATURE OF THE STEEL TO EXCEED 300° FAHRENHEIT DURING WELDING PROCESSES UNLESS SPECIFICALLY NOTED OTHERWISE. USE ACTIVE, OBSERVABLE SURFACE MONITORING METHODS.

C. DEFERRED SUBMITTALS

- 1. IN ACCORDANCE WITH REQUIREMENTS LISTED BY THE DRAWINGS AND SPECIFICATIONS, DEFERRED SUBMITTALS AS DEFINED BY THE IBC ARE REQUIRED FOR THE CONDUCTANCE OF THIS PROJECT. THESE SUBMITTALS REQUIRE ACCEPTABLE REVIEW BY THE ARCHITECT AND/OR ENGINEER-OF-RECORD (EOR) AS WELL AS PRESENTATION OF REVIEWED "RECORD" SUBMITTALS TO THE AHJ AT THEIR DISCRETION AND FOR THEIR ACCEPTANCE.
- 2. DEFERRED SUBMITTALS ARE SPECIFIED TO INCLUDE CALCULATIONS AND DRAWINGS PREPARED UNDER THE AUSPICES OF AN APPROPRIATELY LICENSED (SPECIALTY) ENGINEER. SUBMITTALS INDICATE CODE (MINIMUM) OR SPECIFIED LOAD TYPE, MAGNITUDES, AND LOCATIONS; FRAMING AND CONNECTION TYPES AND CONFIGURATIONS: ÍNCLUDING ATTACHMENT TO PRIMARY OR BASE STRUCTURE FRAMING.
- 3. THE PURPOSE OF THE EOR'S REVIEW OF THE SUBMITTALS CONCERNS THAT THE SUBMITTAL DRAWINGS AND CALCULATIONS ARE PROPERLY SEALED: THAT THE LOAD CRITERIA GENERALLY CONFORM TO THE SPECIFIED DESIGN BASIS AND CODE; THAT CONNECTIONS LOADS ATTACHMENTS AND CONFIGURATIONS TO THE PRIMARY OR BASE STRUCTURE ARE COMPATIBLE WITH THE STRUCTURAL DESIGN AND CODE REQUIREMENTS.
- 4. THE EOR RELIES ON THE (SPECIALTY) ENGINEER'S SEAL AS CERTIFICATION THAT THE DEFERRED SUBMITTAL ITEMS COMPLY WITH SPECIFIED AND CODE CRITERIA. THE EOR IS NOT RESPONSIBLE FOR THE ADEQUACY OR EFFECTS OF THE (SPECIALTY) ENGINEER'S DESIGN. DESIGN OF TEMPORARY SHORING AND BRACING AS WELL AS TESTING AND INSPECTIONS THAT REQUIRE THE SUPERVISION OF A LICENSED ENGINEER. SUCH AS FOUNDATION SUBGRADE REVIEW. ARE NOT CONSIDERED DEFERRED SUBMITTALS.
- 5. DEFERRED STRUCTURAL SUBMITTAL ITEMS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: SHOP FABRICATED WOOD ROOF TRUSSES

IN ADDITION, STRUCTURAL REQUIREMENTS ARE SPECIFIED FOR VARIOUS MISCELLANEOUS METAL, EXTERIOR WALL, EQUIPMENT, AND MEP SYSTEM COMPONENTS BY OTHER DESIGN DISCIPLINES; WHERE THE CONNECTION TO THE PRIMARY OR BASE STRUCTURE IS REVIEWED.

TABLE 1 - CONCRETE MIXTURES **EXPOSURE** CEMENTITIOUS TYPE AIR CONTENT APPLICATION STRENGTH MAX W/C CLASS¹ MATERIALS INTERIOR FOOTINGS. NORMAL 3.000 PSI 40-70% FA OR 0.45 F0, S0, P0, C1 PERIMETER WALL FOOTINGS WEIGHT @ 28 DAYS GGBFS PERIMETER FOUNDATION NORMAL 4.000 PSI 30-50% FA OR 0.45 5% +/- 1.5% F2, S0, P0, C1 WALLS, PIERS WEIGHT @ 28 DAYS GGBFS NORMAL 3.500 PSI 25-50% FA OR 0.45 INTERIOR SLABS-ON-GRADE F0, S0, P0, C0 <3% WEIGHT @ 28 DAYS GGBFS NORMAL 0-15% FA OR 5 000 PSI EXTERIOR SLABS-ON-GRADE F3, S0, P0, C2 0.40 5% +/- 1.5% WEIGHT @ 28 DAYS GGBFS

- 1. EXPOSURE CLASS REFERENCES ACI 318-14 TABLE 19.3.1.1. CONCRETE SHALL BE PROPORTIONED TO COMPLY WITH REQUIREMENTS PROVIDED IN ACI 318-14 TABLES 19.3.2.1 AND 19.3.3.1 WITH RESPECT TO EXPOSURE CLASS.
- DO NOT POWER TROWEL SLABS WITH ENTRAINED AIR.
- 3. COORDINATE FINISHING PROCEDURE WITH SUPPLEMENTAL CEMENTITIOUS MATERIAL. SEE 03 3000.

D. FOUNDATION RELATED EARTHWORK

- 1. SEE GEOTECHNICAL REPORT TITLED "EXPLORATIONS AND GEOTECHNICAL ENGINEERING SERVICES, PROPOSED DORMITORY AND FACULTY RESIDENCE ADDITIONS, 31 AND 37 MAIN STREET, MERIDEN, NEW HAMPSHIRE" PREPARED BY S.W. COLE ENGINEERING, INC. DATED MARCH 3, 2023 FOR ALL RECOMMENDATIONS AND DESIGN.
- 2. THE GEOTECHNICAL REPORTING CONTAINS SPECIFIC REQUIREMENTS PERTAINING TO GRUBBING, SITE, SUBFLOOR AND BEARING SURFACE PREPARATION AND PROTECTION; STRUCTURAL FILL AND COMPACTION REQUIREMENTS; GROUND WATER MANAGEMENT: ETC. THAT ARE NOT NECESSARILY SHOWN BY THE DRAWINGS AND SPECIFICATIONS. ALSO, IBC. CHAPTER 18 "SOILS AND FOUNDATION" REQUIREMENTS APPLY, UNLESS SPECIFICALLY NOTED OTHERWISE BY THE GEOTECHNICAL REPORTING, DRAWINGS OR SPECIFICATIONS. REPORT CONFLICTS BETWEEN THE REPORTING AND THE DRAWINGS AND SPECIFICATIONS TO THE ARCHITECT PRIOR TO COMMENCING ANY AFFECTED WORK.
- 3. A LICENSED GEOTECHNICAL ENGINEER SHALL INSPECT AND REPORT ON ALL NATIVE SUB-GRADES FOR SLABS-ON-GRADE AND FOUNDATION PREPARED SOIL SURFACES PRIOR TO THE PLACEMENT OF ANY BACKFILL, FILL, AND FOUNDATION STRUCTURAL ELEMENTS. FOUNDATIONS AND FOOTINGS SHALL BEAR ON COMPETENT NATIVE SOILS OR COMPACTED STRUCTURAL FILLS IN ACCORDANCE WITH THE GEOTECHNICAL REPORTING.
- 4. FOOTINGS AND SLABS CAST DIRECTLY AGAINST THE EARTH SHALL BE SIDE-FORMED AS REQUIRED TO KEEP EARTH OUT OF THE CONCRETE. COMPACT DISTURBED LOAD BEARING SOIL IN DIRECT CONTACT WITH FOUNDATIONS TO ORIGINAL BEARING CAPACITY. AS WET WEATHER OR GROUND CONDITIONS WARRANT, PLACE A MINIMUM OF 6 INCHES OF CRUSHED STONE WRAPPED IN GEOTEXTILE FABRIC FOR SUBGRADE PROTECTION BENEATH FOUNDATIONS, DO NOT ALLOW FOR STANDING WATER ON EARTH. IF OVER-EXCAVATION OCCURS, REPLACE MATERIAL WITH BACKFILL MEASURES SPECIFIED FOR USE UNDER FOUNDATIONS, AFTER ACCEPTANCE BY GEOTECHNICAL ENGINEER.
- 5. UNLESS NOTED OTHERWISE, PLACE AND COMPACT BACKFILL IN EQUAL CONTINUOUS LAYERS NOT EXCEEDING A MAXIMUM OF 8" OF COMPACTED DEPTH FOR HAND-HELD COMPACTION EQUIPMENT AND A MAXIMUM OF 12" INCHES COMPACTED DEPTH FOR VIBRATORY ROLLERS. MAINTAIN OPTIMUM MOISTURE CONTENT OF BACKFILL MATERIALS TO ATTAIN COMPACTION DENSITY.
- 6. AT EARTH RETAINING AND FOUNDATION WALLS, BACKFILL LIFTS TO NOT EXCEED 12 INCH DIFFERENCE IN ELEVATION UNTIL FINAL ELEVATION ARE REACHED ON BOTH SIDES OF THE WALL. AT BASEMENT WALLS, DO NOT BACKFILL UNTIL GROUND FLOOR AND CONNECTED ELEVATED FRAMED LEVELS SLABS HAVE BEEN COMPLETED AND THE CONCRETE AT WALLS AND FLOORS HAS ACHIEVED FULL DESIGN STRENGTH.
- 7. THE CONSTRUCTION CONSIDERATIONS IN THE GEOTECHNICAL REPORTING AND PROJECT SPECIFICATIONS SHALL APPLY TO THIS PROJECT, INCLUDING BUT NOT LIMITED TO PROOFROLLING SUBGRADES AT THE EXCAVATION AND/OR BEARING ELEVATIONS; REMOVING AND REPLACING LOOSE OR SOFT POCKETS, FILL SLOPE CONSTRUCTIONS, ETC.
- 8. BACKFILL REQUIREMENTS: A. FILL WITHIN BUILDING ENVELOPE:
- MATERIAL: "GRANULAR BORROW" COMPACTION: 95% MODIFIED PROCTOR
- B. FILL DIRECTLY BELOW INTERIOR SLAB-ON-GRADE ASSEMBLIES: MATERIAL: "CRUSHED STONE" COMPACTION: 95% MODIFIED PROCTOR
- C. FILL UNDER EXTERIOR ENTRANCE SLABS OR SIDEWALKS: MATERIAL: "STRUCTURAL FILL" COMPACTION: 95% MODIFIED PROCTOR
- D. FILL UNDER FOUNDATIONS AND AROUND FOOTING DRAINS AND UNDERDRAINS: MATERIAL: "CRUSHED STONE" COMPACTION: 95% MODIFIED PROCTOR
- E. BACKFILL BEHIND RETAINING WALLS AND FOUNDATION WALLS: MATERIAL: "STRUCTURAL FILL"
- 9. BACKFILL MATERIALS:

No. 200

A. "GRANULAR BORROW" % BY WEIGHT PASSING SIEVES SIEVE DESIGNATION No. 40

0-20

- B. "STRUCTURAL FILL": (2016 NHDOT SPEC 209.2.1.2) % BY WEIGHT PASSING SIEVES
- SIEVE DESIGNATION 3 INCH 90-100 1/4 INCH 25-90 No. 40 0-30

COMPACTION: 95% MODIFIED PROCTOR

- C. "CRUSHED STONE": (2016 NHDOT SPEC 703-1 STD STONE SIZE #57) SIEVE DESIGNATION % WEIGHT BY PASSING SIEVES
 - 3/4 INCH 90-100 3/8 INCH 20-55 0-10 No 4 No. 8
- D. "SUITABLE NATIVE SOIL": ON SITE SAND OR GRAVEL REASONABLY FREE OF LOAM, SILT, CLAY, OR ORGANIC MATTER.
- 10. GEOTEXTILE FABRIC: NON-WOVEN WITH 12-INCH LAPPED SEAMS MEETING: GRAB STRENGTH OF 90 POUNDS MINIMUM MEETING ASTM D4632
- PUNCTURE STRENGTH OF 140 POUNDS MINIMUM MEETING ASTM D6241
- TRAPEZOID TEAR OF 25 POUNDS MINIMUM MEETING ASTM D4533
- APPARENT OPENING SIZE OF NO. 70 (US SIEVE) MEETING ASTM D4751

E. POST-INSTALLED ANCHORS INTO CONCRETE AND MASONRY

- 1. WHERE A MANUFACTURER'S ANCHORS IS SPECIFICALLY CALLED OUT ON THE DRAWINGS, IT SHALL BE CONSIDERED THE DESIGN BASIS FOR THE REQUIRED ANCHOR. ALTERNATES MEETING OR EXCEEDING ANCHOR SYSTEM DEMANDS, INCLUDING, BUT NOT LIMITED TO CAPACITY LOADING, EDGE DISTANCE, SUBSTRATE THICKNESS FOR CONNECTION ELEMENTS AND BASE MATERIAL SHALL BE SUBMITTED FOR PROPOSED USE PENDING ACCEPTABLE REVIEW. SUBMIT ICC-ES CODE REPORTS.
- 2. ADHESIVE ANCHORS, WHERE NOT SPECIFICALLY DETAILED, SHALL BE:
- A. FOR CONCRETE AND CONCRETE MASONRY: HILTI HIT HY-200
- B. FOR EXISTING BRICK MASONRY AND HOLLOW CONCRETE MASONRY: HILTI HIT-HY 270
- INSTALL IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS, USE 3/4 INCH DIAMETER AT MINIMUM EMBEDMENT UNLESS OTHERWISE INDICATED BY DETAIL. SEE NOTE 1.
- 3. EXPANSION ANCHORS, WHERE NOT SPECIFICALLY DETAILED, SHALL BE:
- A. FOR CONCRETE: HILTI KWIK BOLT TZ
- B. FOR MASONRY: HILTI KWIK BOLT 3.

INSTALL IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS. USE 3/4 INCH DIAMETER AT MINIMUM EMBEDMENT UNLESS OTHERWISE INDICATED BY DETAIL. SEE NOTE 1.

- 4. SCREW TYPE ANCHORS: WHERE NOT SPECIFICALLY DETAILED, SHALL BE: A. FOR CONCRETE AND MASONRY: SIMPSON TITEN-HD
 - INSTALL IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS. USE 3/4 INCH DIAMETER AT MINIMUM EMBEDMENT UNLESS OTHERWISE INDICATED BY DETAIL. SEE NOTE 1.

F. CAST-IN-PLACE CONCRETE

- 1. CODES AND STANDARDS: COMPLY WITH THE PROVISIONS OF THE LATEST EDITIONS OF:
 - A. ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
 - C. ACI 304 "GUIDE FOR MIXING, TRANSPORTING AND PLACING CONCRETE"
 - D. ACI 305 "HOT WEATHER CONCRETING" E. ACI 306 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING"
 - F. ACI 308 "STANDARD PRACTICE FOR CURING CONCRETE".
 - 2. CONCRETE TESTING: THE CONTRACTOR SHALL PREPARE A SET OF 4 CYLINDERS/TEST SET TO BE TESTED AT AN INDEPENDENT LABORATORY. THE CYLINDERS SHALL BE TAKEN FROM ONE CONCRETE TRUCK AND LABELED WITH DATE. TRUCK NUMBER, AND LOCATION OF CONCRETE PLACEMENT. EACH SAMPLE SHALL ALSO BE TESTED FOR SLUMP, AIR CONTENT, AND TEMPERATURE. THE CYLINDERS SHALL BE TESTED AS FOLLOWS: 1 AT 7 DAYS: 2 AT 28 DAYS: AND A THIRD HELD FOR A 56 DAY BREAK IF REQUIRED. TEST CYLINDERS SHALL BE TAKEN AT LEAST ONCE PER PLACEMENT OR AT THE
 - C. SLABS: 50 CUBIC YARDS

C. ALSO SEE 03 3000.

- 3. SUBMIT MIX DESIGN AND EITHER TRIAL MIX DESIGNS OR HISTORIC FIELD DATA FOR APPROVAL IN ACCORDANCE WITH ACI 318, CHAPTER 5, INCLUDE TECHNICAL DATA SHEETS, GRADATIONS, AND MATERIAL VERIFICATIONS ON ALL COMPONENTS. SUBMIT MIX DESIGNS, PRIOR TO PLACEMENT OF CONCRETE, TRANSIT MIX SHALL CONFORM TO ASTM C94.
- B. ALL CONCRETE NORMAL WEIGHT
- 6. NO CHLORIDE OR OTHER UNAUTHORIZED ADMIXTURES SHALL BE USED. MAINTAIN MAXIMUM WATER SOLUBLE CHLORIDE ION (CL-) IN CONCRETE, BY WEIGHT OF CEMENT AT LESS THAN 1.00 FOR NON-EXPOSED CONCRETES AND 0.30 FOR
- CONCRETE IN ACCORDANCE WITH ACI STANDARDS LISTED ABOVE.
- 8. CONCRETE PLACEMENT MAY REQUIRE ADJUSTMENT OF REINFORCEMENT, EMBEDDED ITEMS OR ANCHOR BOLTS. REVIEW DRAWINGS AND IDENTIFY THESE LOCATIONS TO ARCHITECT PRIOR TO SUBMITTALS. PROVIDE ADDITIONAL SUPERVISION AT ALL STEEL TO CONCRETE CONNECTION LOCATIONS AND MODIFY PLACEMENT MEASURES TO ACCOUNT
- FROM EXPOSED SURFACES. WHERE POSSIBLE, KEEP CONTINUOUSLY WET FOR 72 HOURS. CONTINUE CURING BY USE
- 11. FINISHING: SEE 03 3000 FOR SURFACE FINISHES.
- 12. PROVIDE CONTROL AND CONSTRUCTION JOINTS BY DETAIL AND SPECIFICATION REQUIREMENTS. SHOW LOCATION ON REINFORCING SUBMITTAL FOR COORDINATION WITH FLOORING, EQUIPMENT AND OTHER CONTRACTOR REQUIREMENTS. A. SLABS SAW-CUT CONTROL JOINTS AS SOON AS CONCRETE HAS HARDENED ENOUGH TO WALK ON SURFACE WITHOUT DAMAGING CONCRETE AND NO MORE THAN 4 HOURS AFTER FINAL TROWEL. JOINT SPACING SHALL,
- UNLESS NOTED OTHERWISE, NOT EXCEED 36 TIMES THE SLAB THICKNESS OR 18 FEET B. WALLS CONTROL JOINTS: NOT EXCEEDING 20 FEET AND AT EACH INTEGRAL PILASTER; CONSTRUCTION JOINTS AT 80 FEET OF MAXIMUM SPACING.

G. CONCRETE REINFORCEMENT

- C. ACI SP-66 "ACI DETAILING MANUAL"
- SHOW ALL SLABS IN PLAN AND ALL WALLS IN ELEVATION WITH OPENINGS AND PENETRATIONS SHOWN BASED ON MEP COORDINATION SUBMITTALS AND ARCHITECTURAL REQUIREMENTS. SUBMIT PROPOSED CONTROL AND CONSTRUCTION JOINTS FOR REVIEW ON REINFORCING SUBMITTALS.
- 2. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60, STEEL BARS PER ASTM A305, UNLESS NOTED OTHERWISE.
- 3. FIELD BENDING OR REINFORCEMENT SHALL CONFORM TO ACI 301, INCLUDING PRE-HEAT REQUIREMENTS.
- 4. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185 WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 70,000 PSI. LAP ONE CROSS WIRE SPACING PLUS 2". SUPPORT MESH ON CHAIRS PER CRSI WITH #4 AT 4'-0"oc, EACH WAY.
- 5. PROVIDE MINIMUM CONCRETE COVER TO REINFORCEMENT AS FOLLOWS, UNLESS OTHERWISE NOTED: A. BOTTOM OF FOOTINGS AND SLABS-ON-GRADE: 3"
- C. FOUNDATION WALLS, FROST WALLS, RETAINING WALLS, PIT WALLS: 2"
- D. EXTERIOR WALLS (EXPOSED TO WEATHER): 2"
- 6. ALL LAPS SHALL BE FULL TENSION LAPS (CLASS B SPLICE) UNLESS SPECIFICALLY NOTED OTHERWISE. DOWELS SHALL
- 7. CHAIRS AND SPACERS SHALL BE PLACED TO ADEQUATELY SUPPORT REINFORCING DURING PLACEMENT. FOREIGN MATERIALS SUCH AS WOOD, CLAY BRICK OR OTHER UNSUITABLE SUPPORTS SHALL NOT BE USED TO SUPPORT USE CONCRETE SUPPORTS OR PUDDLING FOR SLABS UNLESS SUBMITTED AND ACCEPTABLY REVIEWED.

H. CONCRETE FORMWORK

- 1. CONCRETE FORMS SHALL BE CLEAN AND FREE FROM DEBRIS. IF FORMS ARE COATED WITH A VEGETABLE BASED (SOY) RELEASE AGENT, WHICH SHALL NOT STAIN CONCRETE OR ABSORB MOISTURE OR IMPAIR NATURAL BONDING OF CONCRETE.
- 2. COORDINATE WITH REINFORCING SUBMITTAL FOR OPENING AND ADDITIONAL REQUIREMENTS. SUBMIT, BEFORE FRAMING OPENINGS IN STRUCTURAL ELEMENTS WHICH ARE NOT INDICATED ON DRAWINGS.
- 3. PROVIDE BRACING TO ENSURE STABILITY OF FORMWORK. FOR PLACEMENT OPERATIONS. DO NOT REMOVE FORMS OR
- 4. ALL WALL SIDES AND SLAB EDGES EXPOSED TO VIEW TO HAVE CLASS A CLASS OF SURFACE.

BASIS OF DESIGN 1. BUILDING CODE: 2018 NEW HAMPSHIRE STATE BUILDING CODE 2. DEAD LOADS: 25 PSF (INCLUDING 6 PSF FOR RACK-MOUNTED SOLAR) A. ROOF DEAD LOAD: B. PORCH ROOF DEAD LOAD: 12 PSF 15 PSF C. FLOOR DEAD LOAD: 3. LIVE LOADS: A. ROOF LIVE LOAD: SNOW LOAD GOVERNS B. FLOOR LIVE LOAD: 40 PSF (RESIDENTIAL) 100 PSF (LOBBY; VESTIBULE; LOUNGE) 4. ROOF SNOW LOAD: 83 PSF (ELEVATION = 960') A. GROUND SNOW LOAD, Pg: B. FLAT ROOF SNOW LOAD, PF: 58 PSF C. SNOW EXPOSURE FACTOR, CE: 1.0 D. SNOW LOAD IMPORTANCE FACTOR, I: E. THERMAL FACTOR, C_T: 1.0 (1.2 AT PORCH) 5. WIND DESIGN DATA: A. BASIC WIND SPEED (3-SECOND GUST), V: 115 MPH

+/- 0 18

ON CENTER

STD STANDARD

T.O.SHELF TOP OF SHELF

T.O.W. TOP OF WALL

TYPICAL

PRESSURE-TREATED

U.N.O. UNLESS NOTED OTHERWISE

CONCRETE

GROUT

CRUSHED STONE

STRUCTURAL FILL

RIGID INSULATION

UNDISTURBED SUBGRADE

VERIFY IN FIELD

WORK POINT

D. COMPONENTS AND CLADDING WIND PRESSURE: PER ASCE 7 6. EARTHQUAKE DESIGN DATA: A. SEISMIC IMPORTANCE FACTOR, I: 1.00 B. OCCUPANCY CATEGORY: MAPPED SPECTRAL RESPONSE ACCELERATION, S_S: 0.255 D. MAPPED SPECTRAL RESPONSE ACCELERATION S₁:

B. WIND EXPOSURE:

E. SITE CLASS:

ABBREVIATIONS

B.O.F. BOTTOM OF FOOTING

DWG DRAWING

ELEV. ELEVATION

E.S.

E.W.

FND

EQUAL

EACH SIDE

EACH WAY

EXISTING

FOUNDATION

DRAWING LEGEND

FOOTING DESIGNATION

NOTE: NOT ALL SYMBOLS AND NOTATIONS USED

NORTH ARROW

ELEVATION

SECTION NUMBER

DRAWING WHERE SHOWN

SHEATHING SPAN DIRECTION

SLOPE DIRECTION, and

MAGNITUDE

ROOF PITCH

FOOTING STEP

ANCHOR BOLT

ABOVE FINISH FLOOR

C. INTERNAL PRESSURE COEFFICIENTS:

F. SPECTRAL RESPONSE COEFFICIENT, SDS 0.271 G. SPECTRAL RESPONSE COEFFICIENT, S_{D1}: 0.114 H. SEISMIC DESIGN CATEGORY I. BASIC SEISMIC-FORCE-RESISTING SYSTEM: LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE

J. DESIGN BASE SHEAR: WIND GOVERNS 7. ALLOWABLE SOIL BEARING PRESSURE: 4.000 PSF (S.W.COLE ENGINEERING, INC. GEOTECHNICAL REPORT DATED MARCH 3, 2023)

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DATE ISSUED: 03/27/2023 Drawn: JTM

Checked: JLR **REVISIONS:**

Date Description





Main Street, Meriden, NH 03770

GENERAL NOTES BASIS OF DESIGN

5/15/2023 11:30:44 AM

B. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"

FOLLOWING INCREMENTS:

A. WALLS AND FOOTINGS: 50 CUBIC YARDS B. ISOLATED FOOTINGS: 25 CUBIC YARDS

FIELD TESTING SHALL BE PERFORMED BY A GRADE I ACI (MINIMUM) FIELD TESTING TECHNICIAN.

4. COMPRESSIVE MIXTURES AS DELINEATED IN TABLE 1 BELOW AND: A. SLUMP: 3"-5" BEFORE ADDITION OF WATER REDUCER, 6"-8" AFTER ADDITION OF WATER REDUCER

5. MAXIMUM AGGREGATE SIZE IN ACCORDANCE WITH ACI 301; CLEARLY NOTE LOCATION WHERE AGGREGATES GREATER THAT 3/4" MAXIMUM SIZE ARE PROPOSED FOR USE.

7. WHEN AMBIENT TEMPERATURE IS BELOW 40° FAHRENHEIT OR MORE THAN 90° FAHRENHEIT PLACE AND PROTECT

9. COMPLY WITH ACI CODES AND PLACE CONCRETE IN A CONTINUOUS OPERATION WITHIN PLANNED JOINTS OR SECTIONS.

10. CURING: COVER OR WET CURE ALL ELEMENTS. BEGIN INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED OF MOISTURE RETAINING COVER. USE OF MEMBRANE-FORMING CURING COMPOUNDS IS PROHIBITED.

- 1. SHOP DRAWINGS SHALL BE PROVIDED PRIOR TO START OF CONCRETE PLACING AND BE IN ACCORDANCE WITH:
- B. ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
- D. CRSI MSP "MANUAL OF STANDARD PRACTICE"

- B. SIDES OF FOOTINGS: 2"
- E. FACES OF WALLS OTHER THAN THOSE NOTED ABOVE: 3/4' F. FOUNDATION PIERS: 2" TO TIES
- MATCH SIZE AND SPACING OF MAIN REINFORCEMENT, UNLESS OTHERWISE NOTED. REINFORCING. SET WIRE TIES SO ENDS ARE DIRECTED INTO CONCRETE WHERE CONCRETE WILL BE EXPOSED. DO NOT

- BRACING UNTIL CONCRETE HAS GAINED SUFFICIENT STRENGTH TO CARRY ITS OWN WEIGHT AND IMPOSED LOADS.

J. WOOD FRAMING NOTES

- 1. 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 PLYWOOD 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.
- 3. STORE SEASONED MATERIALS IN DRY PORTIONS OF BUILDING.
- 4. PROTECT SHEET MATERIALS FROM CORNERS BREAKING AND DAMAGING SURFACES WHILE UNLOADING.
- 5. NOMINAL SIZES ARE INDICATED EXCEPT AS SHOWN BY DETAIL DIMENSIONS. PROVIDE ACTUAL SIZES AS REQUIRED BY PRODUCT STANDARD 20, DEPARTMENT OF COMMERCE.
- 6. MAXIMUM MOISTURE CONTENT SHALL NOT EXCEED 19%.
- 7. LIGHT GAGE METAL CONNECTIONS SHALL BE SIMPSON, SUBMIT MANUFACTURERS SPECIFICATION SHEETS.

. 2x6 AND 2x4 BEARING WALLS, INTERIOR AND EXTERIOR LOCATIONS: SPRUCE-PINE-FIR No. 1 / No. 2 AS GRADED BY NLGA

2. STRUCTURAL ROOF AND FLOOR FRAMING: SPRUCE-PINE-FIR No. 1 / No. 2 AS GRADED BY NLGA

3. PRESERVATIVE PRESSURE TREATED LUMBER: SOUTHERN PINE No. 2. AS GRADED BY SPIB

4. LAMINATED VENEER LUMBER (LVL):

- A. PROVIDE LVL HEADERS AND BEAMS AS INDICATED.
- B. LVL FRAMING SHALL BE 1 3/4" WIDTH, UNLESS NOTED OTHERWISE.
- C. 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

5. PARALLEL STRAND LUMBER (PSL): A. PROVIDE PSL POSTS AS INDICATED.

- B. 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 • FC (COMPRESSION PARALLEL TO GRAIN) = 2,500 PSI

6. PREFABRICATED WOOD I-JOISTS (TJI):

- A. PROVIDE TJI JOISTS AS INDICATED. B. TJI JOISTS TO BE AS MANUFACTURED BY TRUS-JOIST.
- 7. 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

- . 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.
- 2. 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.
- 3. WALL SHEATHING: 1/2" APA RATED SHEATHING. SECURE WALL SHEATHING WITH LONG DIMENSION PERPENDICULAR TO WALL STUDS, WITH ENDS OVER FIRM BEARING AND STAGGERED.
- 4. 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.
- 5. SILL GASKET ON TOP OF FOUNDATION WALL: 1/4 INCH THICK, PLATE WIDTH WIDE, CLOSED CELL POLYETHYLENE URETHANE FOAM FROM CONTINUOUS ROLLS.
- 6. SUBFLOOR GLUE: APA AFG-01, WATERPROOF OF WATER SOLVENT BASE, AIR CURE TYPE, CARTRIDGE DISPENSED.
- 7. WOOD PRESERVATIVE (PRESSURE TREATMENT): AWPA TREATMENT ACQ USING WATER BORNE PRESERVATIVE WITH
- 8. SET STRUCTURAL MEMBERS LEVEL AND PLUMB, IN CORRECT POSITION. PLACE HORIZONTAL MEMBERS, CROWN SIDE UP.
- 9. 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. 10. CONSTRUCT LOAD BEARING FRAMING FULL LENGTH WITHOUT SPLICES.
- 11. DOUBLE MEMBERS AT OPENINGS OVER 24 INCHES WIDE. SPACE SHORT STUDS OVER AND UNDER OPENING TO STUD
- 12. CONSTRUCT DOUBLE JOIST HEADERS AT FLOOR AND CEILING OPENINGS AND UNDER WALL STUD PARTITIONS THAT ARE PARALLEL TO FLOOR JOISTS. FRAME RIGIDLY INTO JOISTS.
- 13. 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.

14. TOLERANCES:

- A. FRAMING MEMBERS: 1/4 INCH FROM TRUE POSITION, MAXIMUM.
- B. SURFACE FLATNESS OF FLOOR: 1/4 INCH IN 10 FEET MAXIMUM, AND 1/2 INCH IN 30 FEET MAXIMUM.
- 15. 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
- 16. 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.
- 17. ALL BEARING WALLS SHALL BE BLOCKED AT 4'-0" ON CENTER, VERTICALLY, UNLESS NOTED OTHERWISE.
- 18. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE PRESSURE TREATED, P.P.T. 19. ALL FASTENERS AND HANGERS FOR PRESSURE TREATED WOOD TO BE G90 HOT-DIPPED GALVANIZED.
- 20. PROVIDE 1/4" NOMINAL GAP BETWEEN WOOD FRAMING AND HORIZONTAL FACES OF CONCRETE WALLS.

K. PLATE CONNECTED WOOD TRUSSES

- 1. ALL FRAMING SHALL BE IN COMPLIANCE WITH THE 2015 INTERNATIONAL BUILDING CODE. (IBC) CHAPTER 23 "WOOD."
- 2. 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.
- 3. 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: A. ROOF TRUSS: LIVE LOAD: L/240 TOTAL LOAD: L/180 LIVE LOAD: L/360 TOTAL LOAD: L/240 B. FLOOR TRUSS:
- 4. 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.
- 5. 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
- A. VERIFICATION OF CORRECT LOADING USED BY THE TRUSS ENGINEER. B. REVIEW OF TRUSS REACTIONS AND VERIFICATION THAT BUILDING ELEMENTS ARE ADEQUATE TO SUPPORT TRUSS
- REACTIONS AS DETERMINED BY THE TRUSS ENGINEER. C. REVIEW OF TRUSS DEFLECTIONS AS CALCULATED BY THE TRUSS ENGINEER FOR SUITABILITY IN THE OVERALL
- BUILDING CONFIGURATION. D. DIMENSIONS WILL BE REVIEWED FOR CONFORMANCE WITH THE BEARING LOCATIONS AS INDICATED ON THE
- 6. ALL TRUSSES SHALL BE DELIVERED TO THE SITE, HANDLED, AND STORED IN COMPLIANCE WITH THE WTCA/TPI BUILDING COMPONENT SAFETY INFORMATION (BCSI) PUBLICATION "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLATION, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- 7. TRUSS BRACING SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND WITH WTCA/TPI BCSI PUBLICATION. TOP CHORD AND BOTTOM CHORD BRACING SHALL BE INSTALLED IN ACCORDANCE WITH THE WTCA/TPI 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.
- 8. 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.
- 9. 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.
- 10. FIELD CUTTING HOLES AND NOTCHES IN ANY FRAMING MEMBER IS NOT ACCEPTABLE WITHOUT PRIOR APPROVAL OF THE
- 11. 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 SPECIFIY A BRACING REQUIREMENT, PROVIDE CONTINUOUS BRACING AT 24" ON CENTER, (oc). 12. PUBLICATIONS: SUBMIT ONE COPY OF BCSI 1 AND BCSI B1 SUMMARY SHEET AND PROVIDE TWO COPIES TO ERECTOR TO BE KEPT ON SITE.

. 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.

- 1. SLAB-ON-GRADE CONTROL JOINTS: SAW CUT USING EARLY ENTRY SAW IN ACCORDANCE WITH SOFF-CUT (OR ACCEPTED EQUAL) SYSTEM SPECIFICATION.
- 2. EXTERIOR SLABS ON STRUCTURAL DRAWINGS, UNLESS NOTED OR SPECIFIED OTHERWISE:
- A. EXPANSION JOINT FILLER: 1/2" WIDTH (UNO), CERAMAR, BY W R MEADOWS WHERE NOT OTHERWISE INDICATED
- B. JOINT SEALANT: GARDOX, BY W R MEADOWS C. SEALER ONLY AT SLABS NOT RECEIVING COVERING MATERIAL, FINISH, ETC: LIQUI-HARD, BY W R MEADOWS D. MOISTURE RETAINING COVER CURE COVERED SLABS.
- 3. INTERIOR EXPOSED SLABS: SEE ARCH DRAWINGS AND SPECIFICATIONS: FOR SLABS NOT COVERED BY THESE PROVIDE THE FOLLOWING:
- A. EXPANSION JOINT FILLER: 3/8" WIDTH (UNO), CERAMAR, BY W R MEADOWS WHERE NOT OTHERWISE INDICATED. B. JOINT SEALANT: POURTHANE, BY W R MEADOWS
- C. SEALER ONLY AT SLABS NOT RECEIVING COVERING MATERIAL, FINISH, ETC: ASHFORD FORMULA, BY CURECRETE.
- D. MOISTURE RETAINING COVER CURE COVERED SLABS
- 4. INTERIOR SLABS RECEIVING COVERING MATERIAL, FINISH, ETC. UNLESS NOTED OR SPECIFIED OTHERWISE: A. EXPANSION JOINT FILLER: 3/8" WIDTH (UNO), CERAMAR, BY W R MEADOWS WHERE NOT OTHERWISE INDICATED)
- B. JOINT SEALANT: SIKAFLEX 1A, UNLESS OTHER REQUIRED FOR FLOOR SYSTEM, SEE SPEC.
- D. MOISTURE RETAINING COVER CURE, SEE SPECIFICATIONS



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

REVISIONS:

Date Description

PERMIT SET 05/15/2023



GENERAL NOTES

Meriden, NH 03770

Statement of Special Inspections

Owner: Kimball Union Academy

Project: KUA Kilton/Welch Dormitories & Faculty Residences

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 encompass 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:

11164	it of opecial mapections / Quality	naauranice i	all includes the following building sy
	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 Syste Mechanical & Electrical Systems Architectural Systems Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
Special Inspection Coordinator	TBD	
Structural Engineer	Engineering Ventures, PC	208 Flynn Avenue, Suite 2A Burlington VT 05401 Tel: 802-863-6225
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 Quality Assurance Plan Required (Y/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) Vult (Vasd) 115mph (89mph)

Wind Exposure Category

Quality Assurance Plan Required (Y/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

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

Concrete Field Testing Technician - Grade 1 Concrete Construction Inspector ACI-CCI Laboratory Testing Technician - Grade 1&2 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

Non-Destructive Testing Technician - Level II or III.

International Code Council (ICC) Certification

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

National Institute for Certification in Engineering Technologies (NICET)

Concrete Technician - Levels I, II, III & IV Soils Technician - Levels I, II, III & IV

Geotechnical Engineering Technician - Levels I, II, III & IV

Soils and Foundations

Item	Agency # (Qualif.)	Scope
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
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						
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.						
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						
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						
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		
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.		
Other elements of the seismic-force-resisting system (includes: straps, hold downs)	4	Inspect nailing, bolting, anchorage and other fastening systems. FREQUENCY: Upon completion.		

VERMONT INTEGRATED ARCHITECTURE, PC

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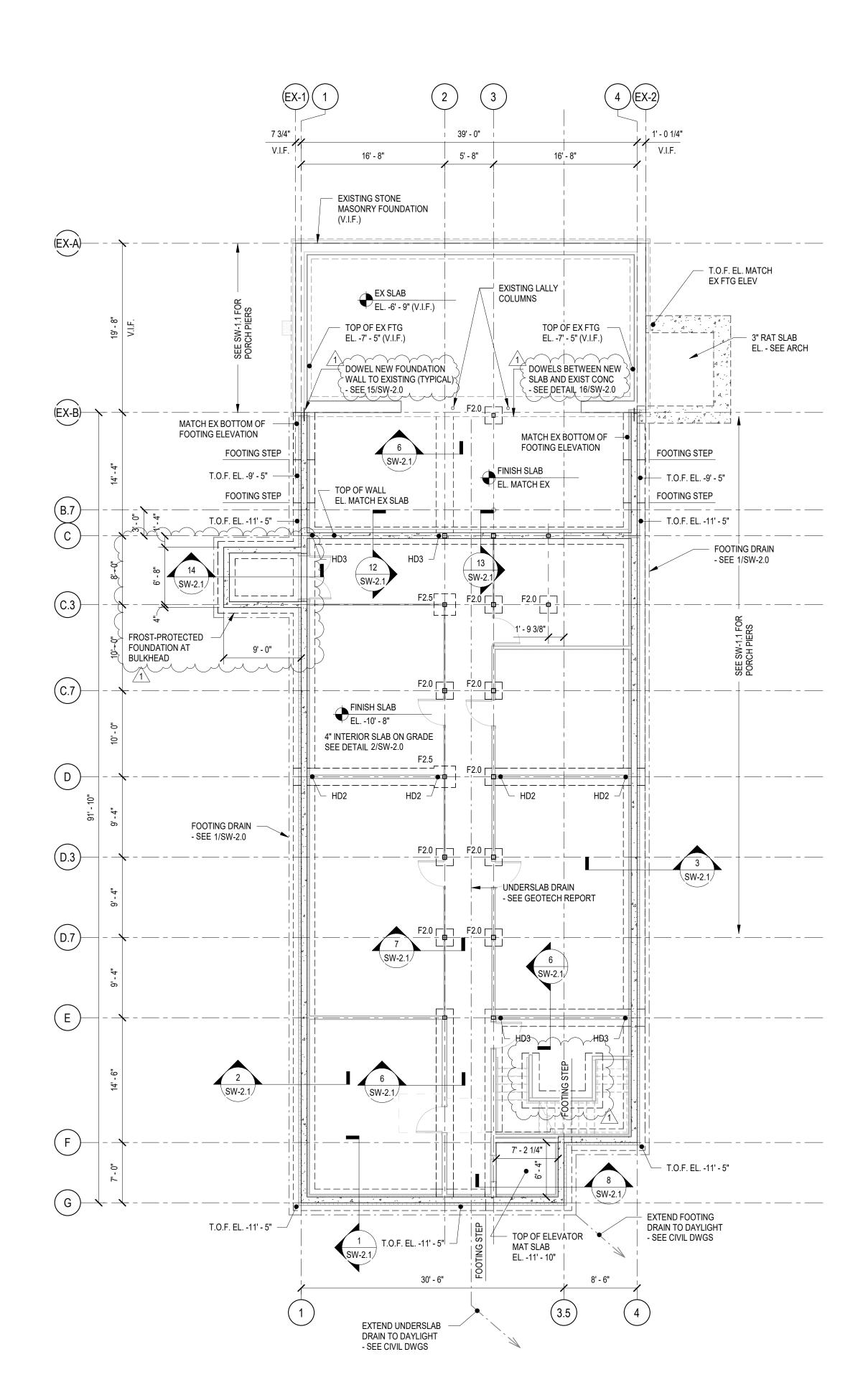
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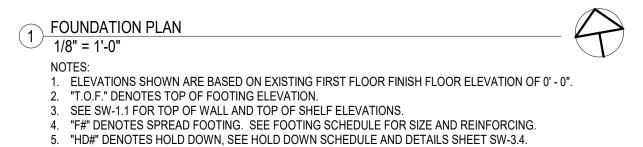
> PERMIT SET 05/15/2023

KUA DORM PROJECT MAX:12:12023 KILTON/WELCH DORMITORIES

Main Street, Meriden, NH 03770

SPECIAL





FOOTING SCHEDULE					
Туре	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	

HOLD DOWN INDICATED ON PLAN OCCURS AT BASEMENT AT BASE OF SHEAR WALL.

6. COORDINATE DOOR R.O.'s WITH ARCH DWGS AND DOOR SUBMITTALS.



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Date Description

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

PERMIT SET 05/15/2023

KUA DORM PROJECT
MAY 12, 2023

ROBERT
NEELD, P.E.
No. 09172

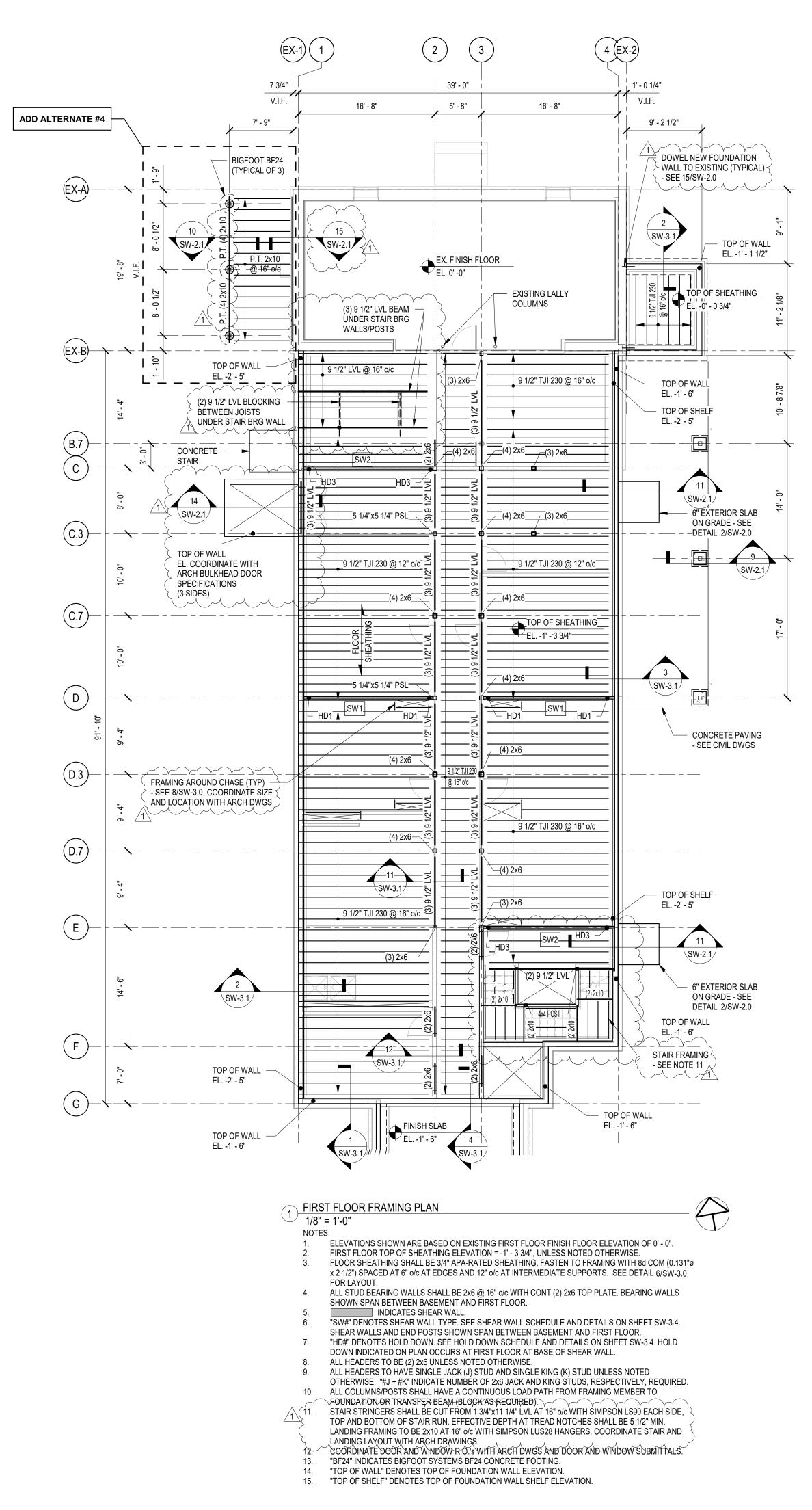
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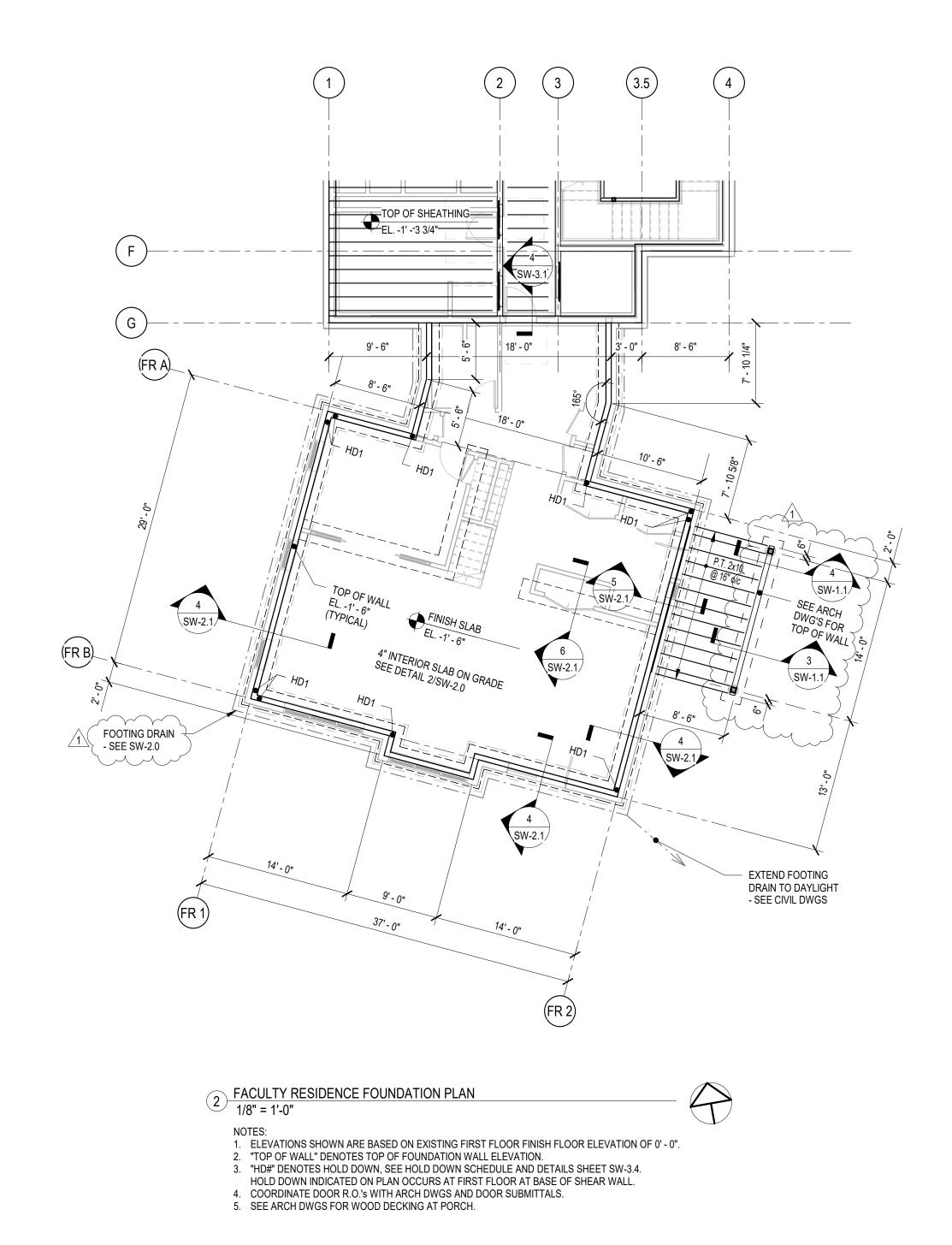
KILTON/WELCH

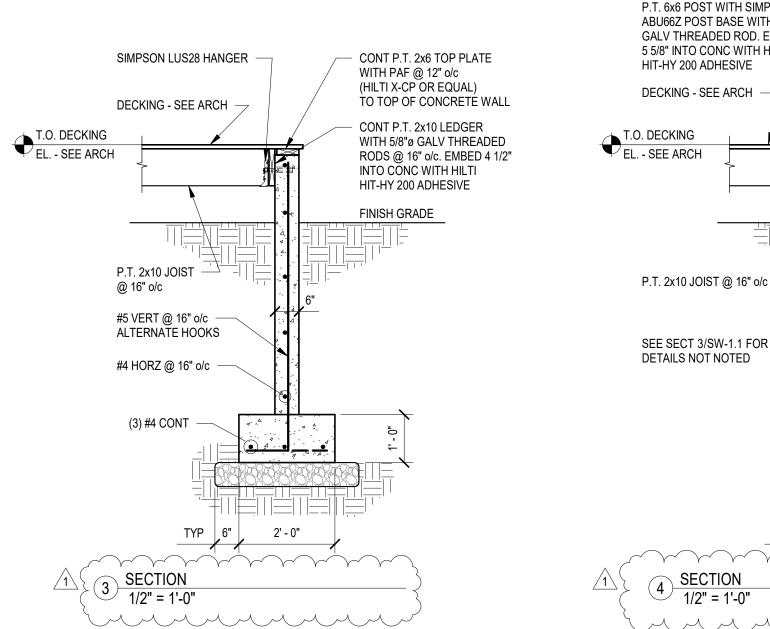
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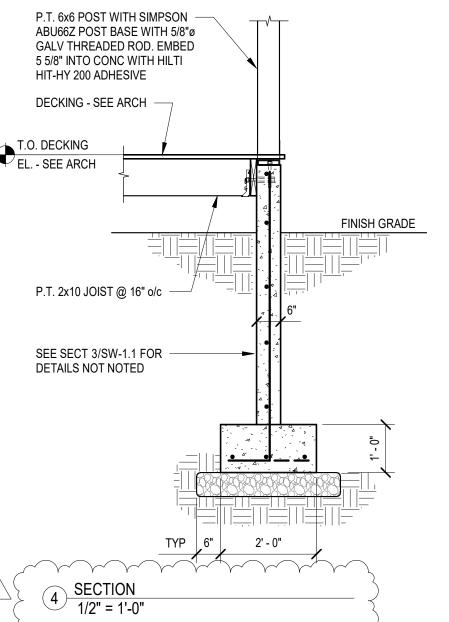
Main Street, Meriden, NH 03770

FOUNDATION PLAN











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KUA DORM PROJECT
MAY, 12, 2023

ROBERT
NEELD, P.E.
No. 09172

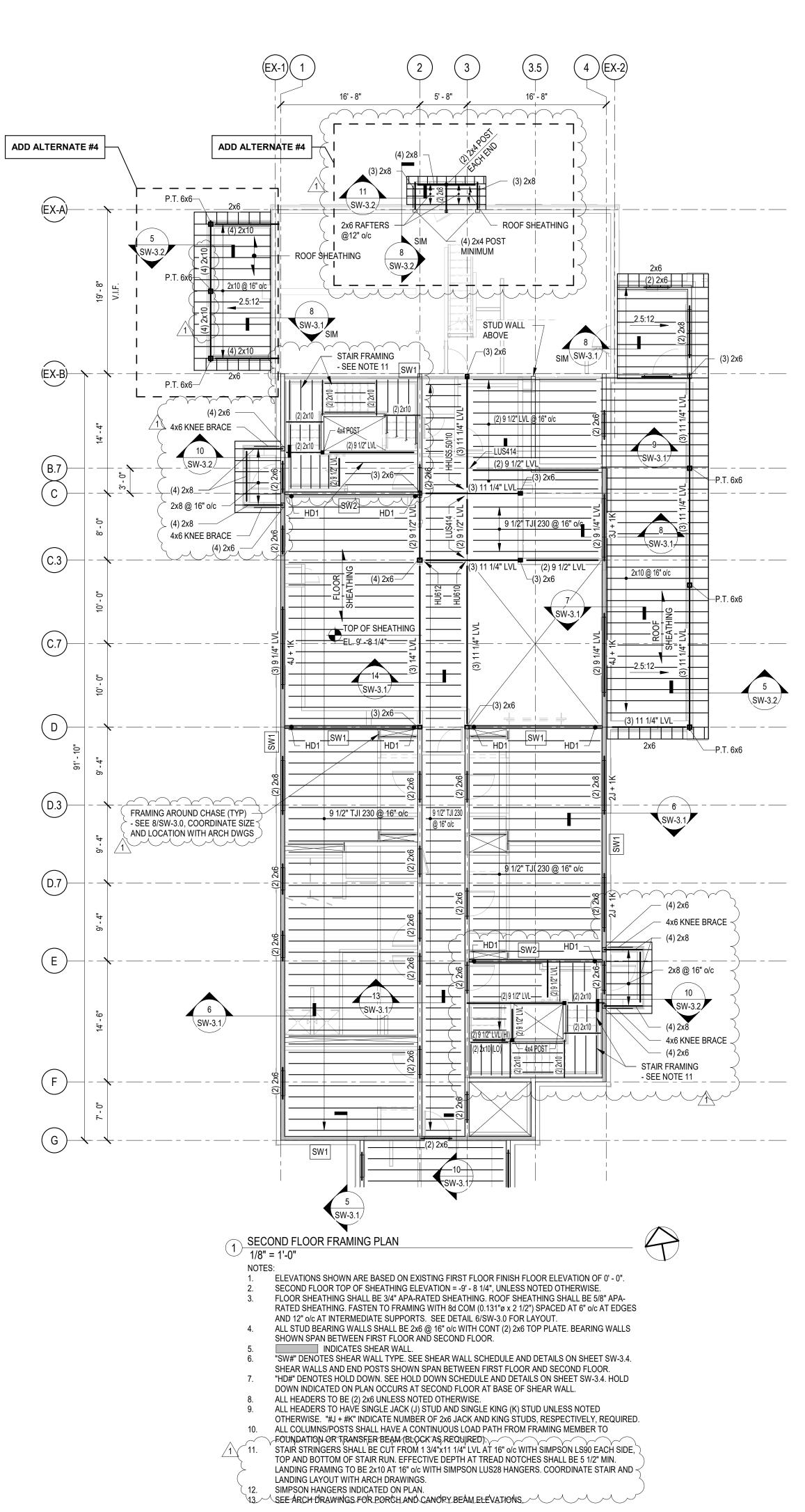
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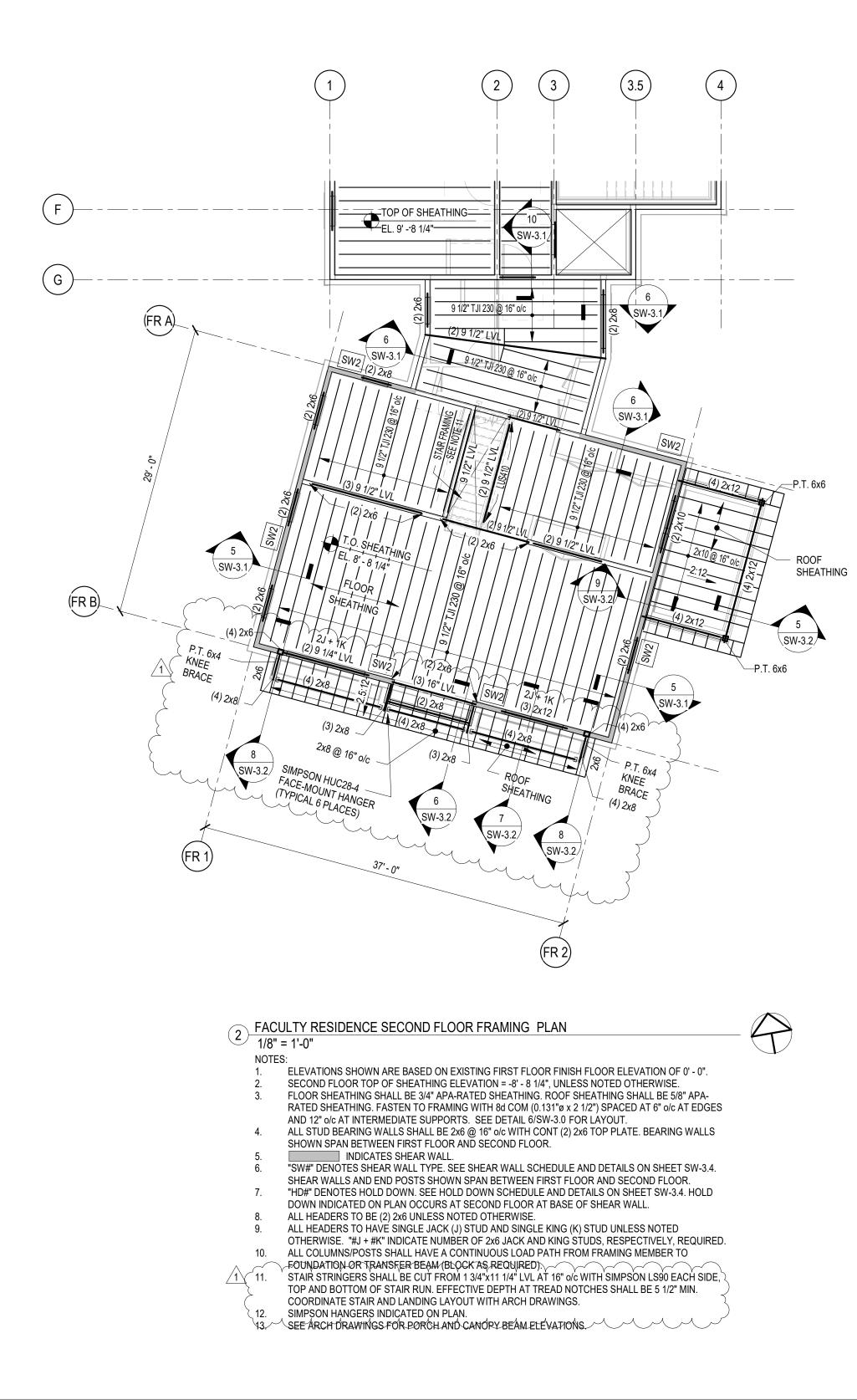
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DORMITORIES

Main Street, Meriden, NH 03770

FIRST FLOOR FRAMING PLAN







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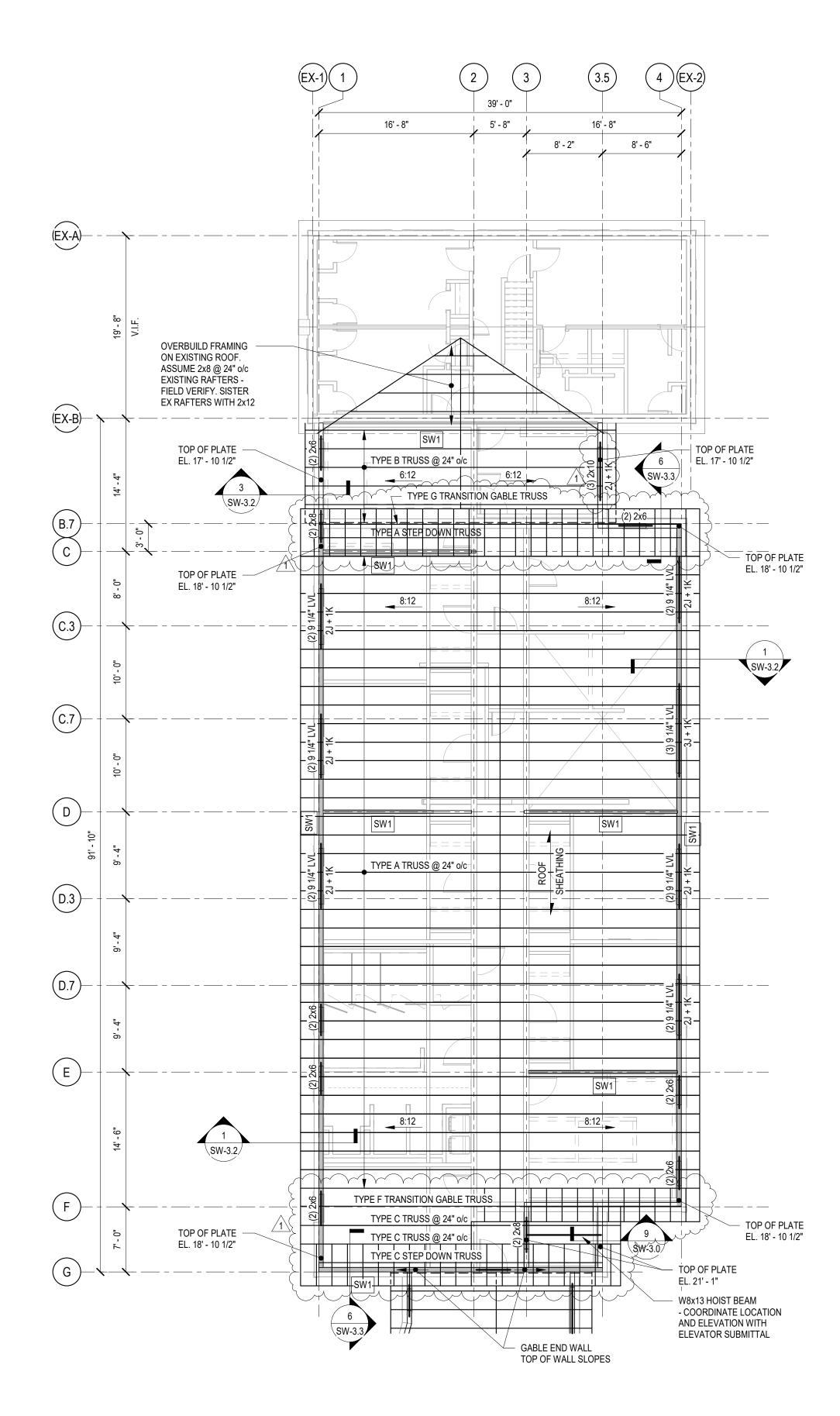
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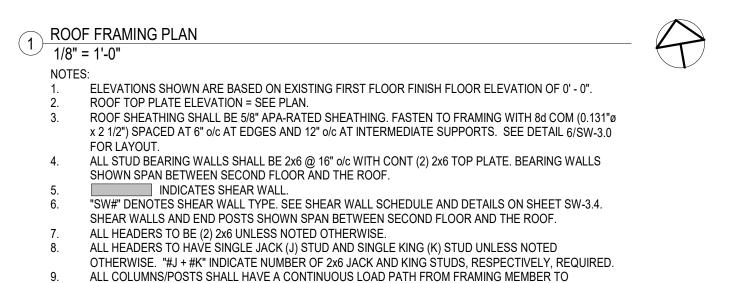
KILTON/WELCH

DORMITORIES

Main Street, Meriden, NH 03770

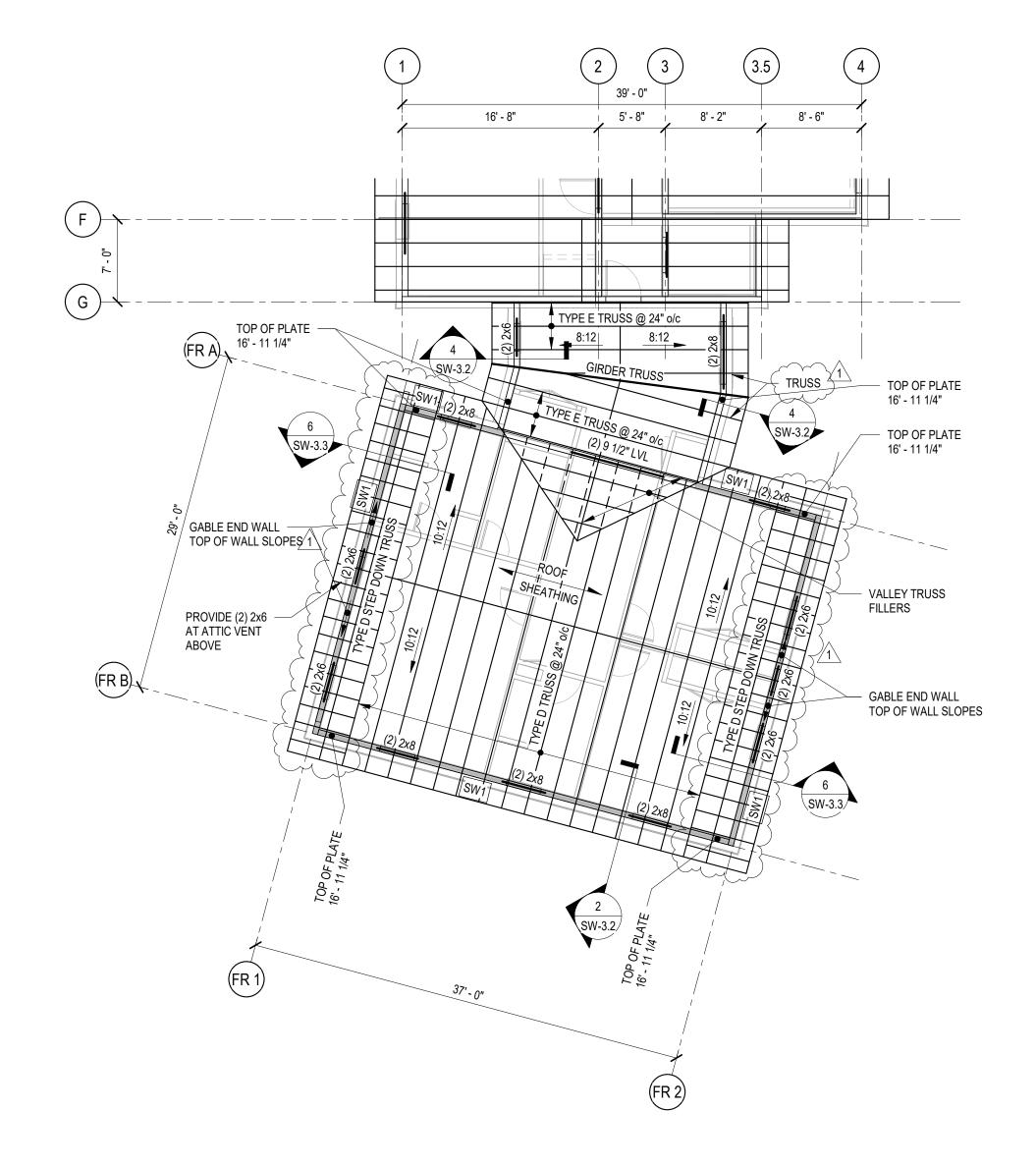
SECOND FLOOR FRAMING PLAN

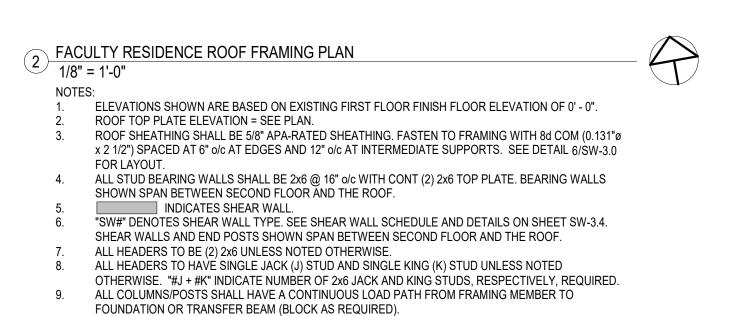




FOUNDATION OR TRANSFER BEAM (BLOCK AS REQUIRED).

10. SEE SHEET SW-3.3 FOR TRUSS DETAILS AND DESIGN LOADS.





10. SEE SHEET SW-3.3 FOR TRUSS DETAILS AND DESIGN LOADS.



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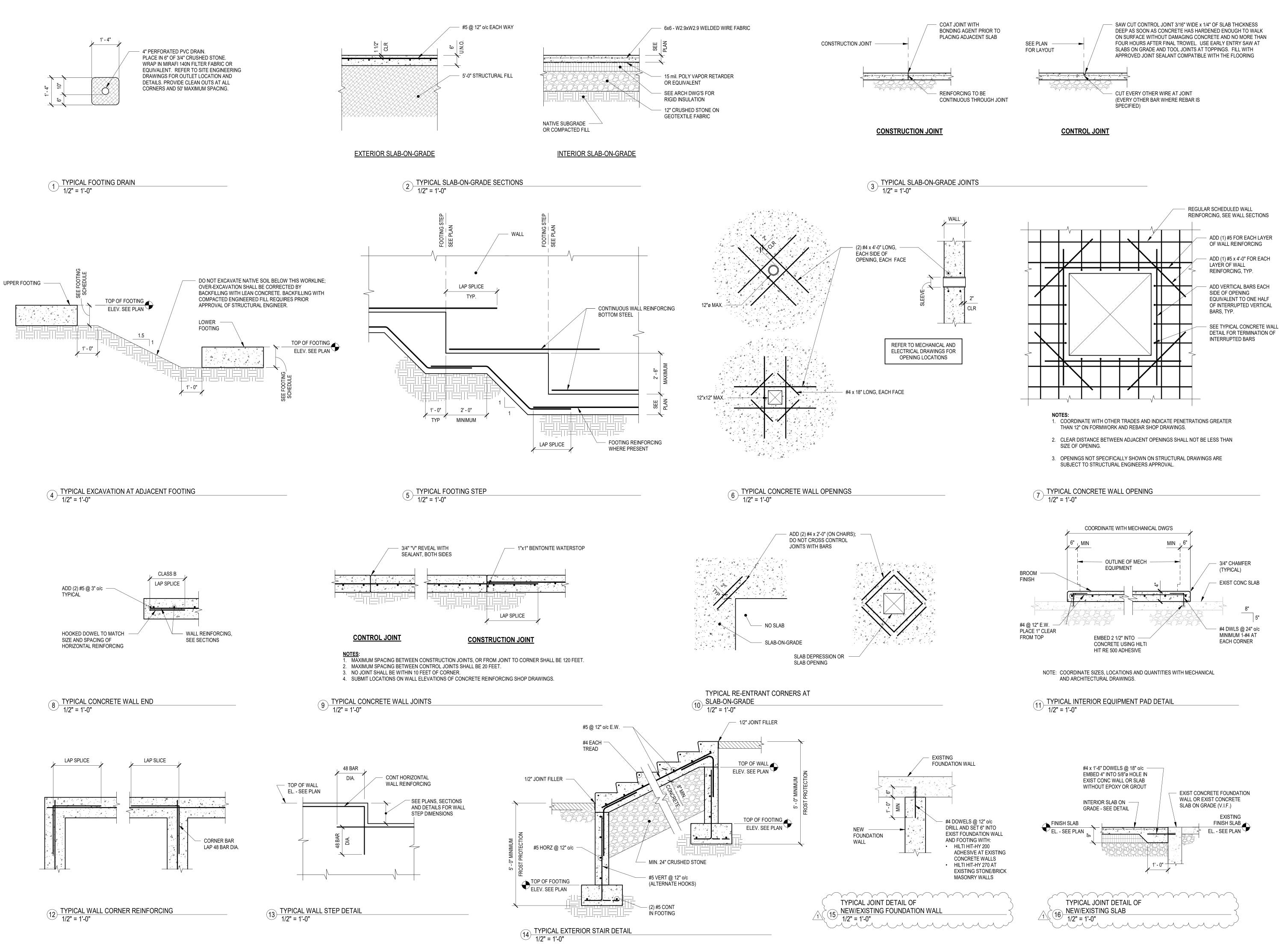
KUA

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DORMITORIES

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ROOF FRAMING PLAN



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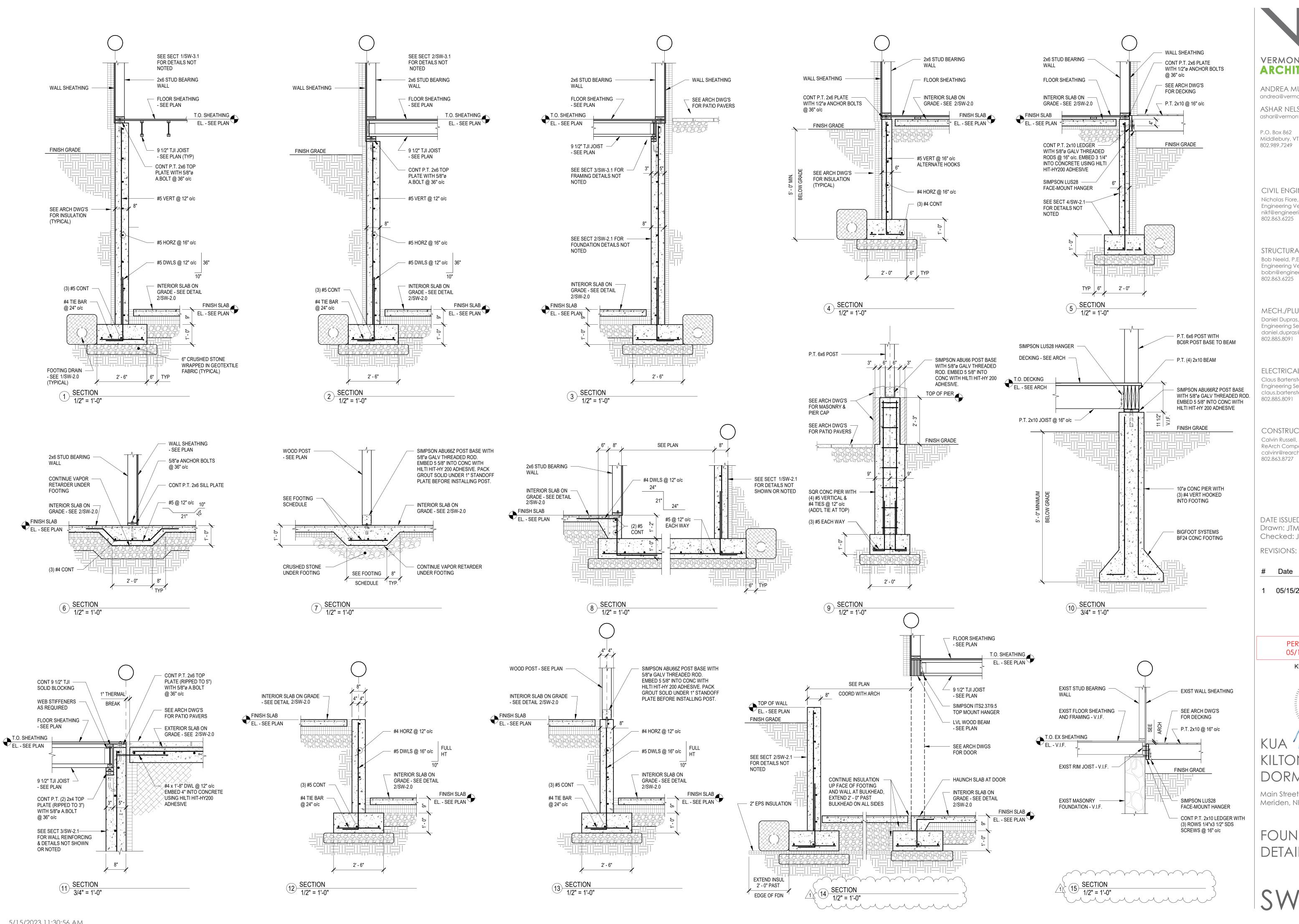




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TYPICAL FOUNDATION DETAILS

SW-2.0





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Description

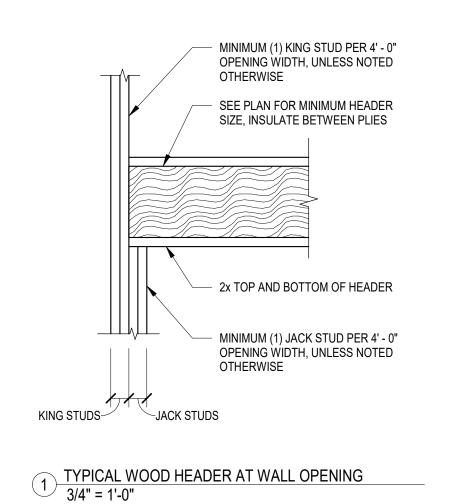
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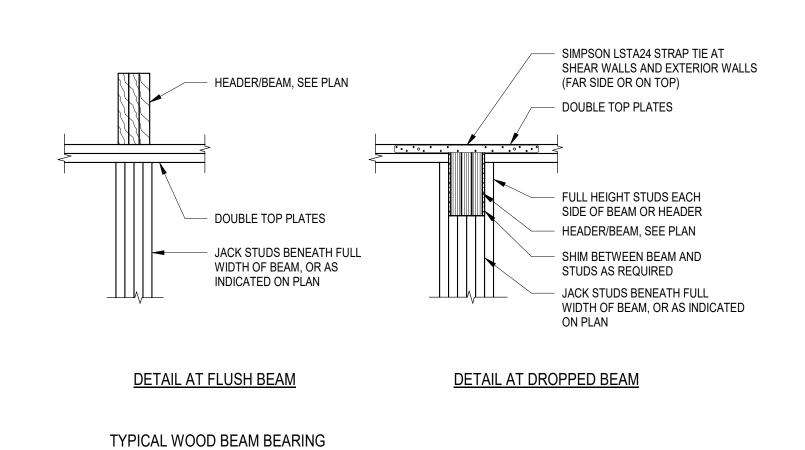




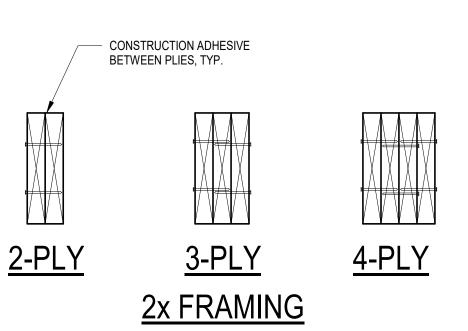
Main Street, Meriden, NH 03770

FOUNDATION DETAILS



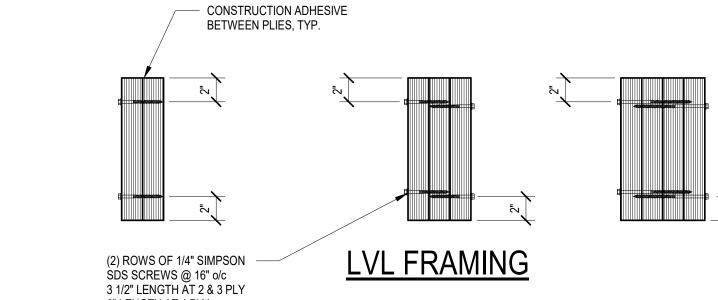


2 PERPENDICULAR TO WALL 3/4" = 1'-0"



MEMBERS < 12" DEEP: 2 ROWS OF 10d NAILS @ 12" o/c

MEMBERS > 12" DEEP: 3 ROWS OF 10d NAILS @ 12" o/c

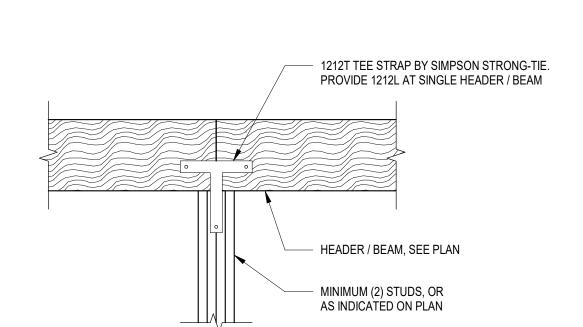


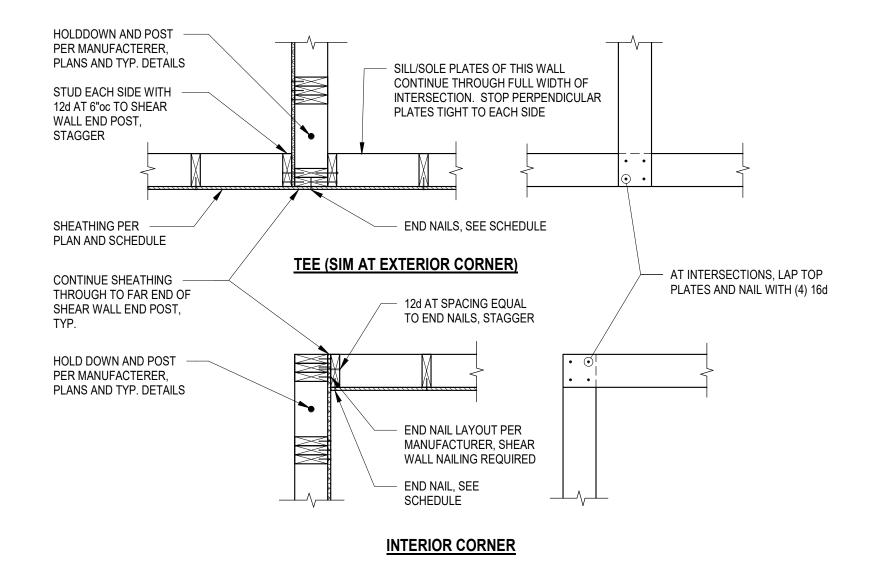
6" LENGTH AT 4 PLY

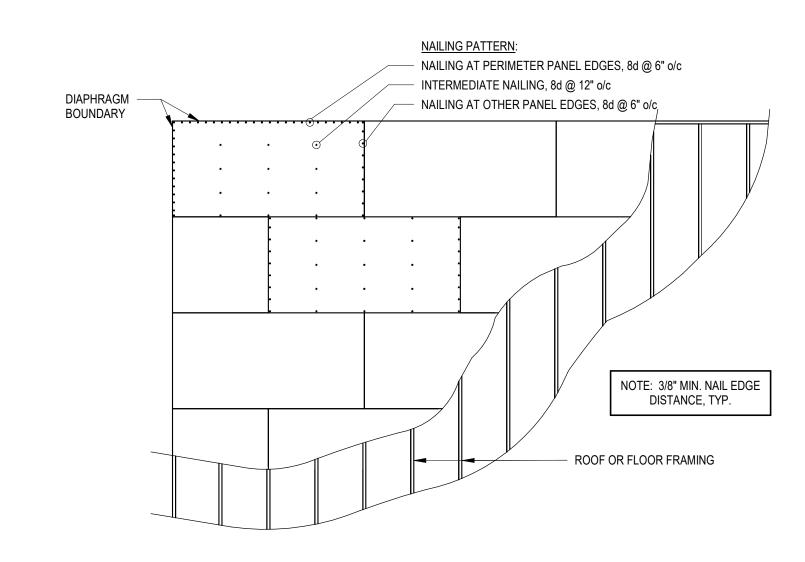
SEE WEYERHAEUSER MULTIPLE MEMBER CONNECTION INSTRUCTIONS FOR ADDITIONAL INFORMATION

ADDITIONAL SCREWS OR BOLTS MAY BE REQUIRED AT POINT LOADS PER WEYERHAEUSER

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



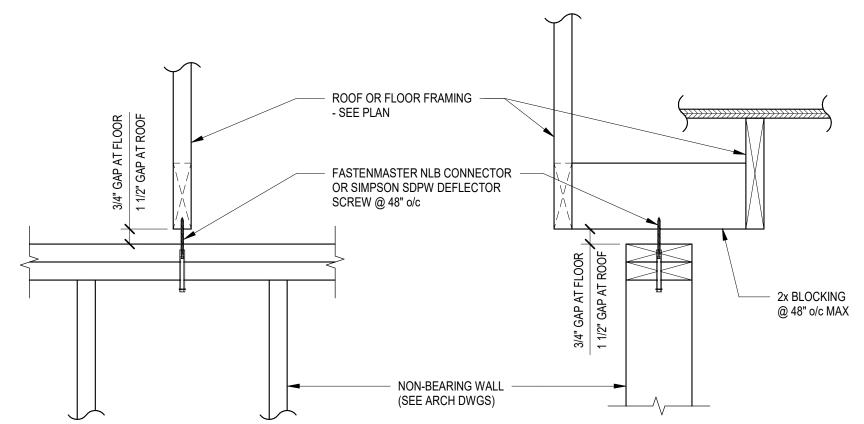


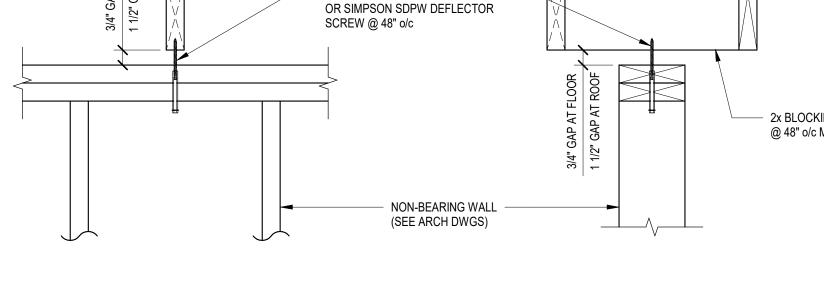


4 TYPICAL WOOD BEAM/HEADER
3/4" = 1'-0"

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

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





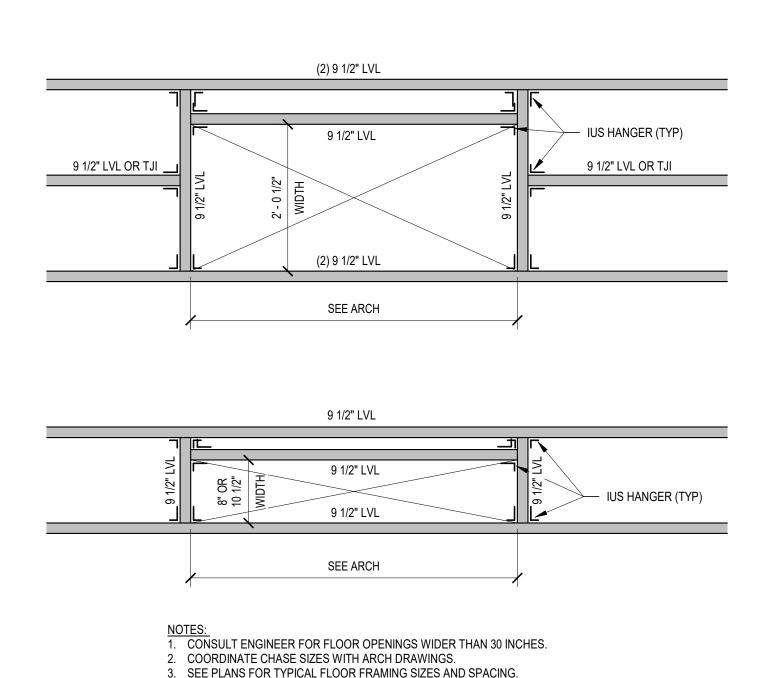
NON-BEARING WALL NON-BEARING WALL PARALLEL TO FRAMING PERPENDICULAR TO FRAMING

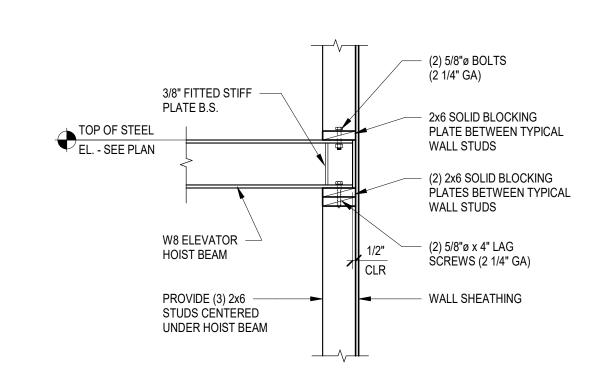
NOTES:

1. GAP SHALL APPLY AFTER ALL DEAD LOADS ARE IN PLACE.

2. FASTEN GWB AND OTHER FINISHES PER ARCH SO AS TO PERMIT FRAMING DEFLECTION. 3. NON-BEARING WALL TO HAVE SINGLE OR DOUBLE TOP PLATE.

TYPICAL SUPPORT AT TOP
OF NON-BEARING WALLS
1 1/2" = 1'-0" TYPICAL FRAMING AROUND CHASE OPENINGS









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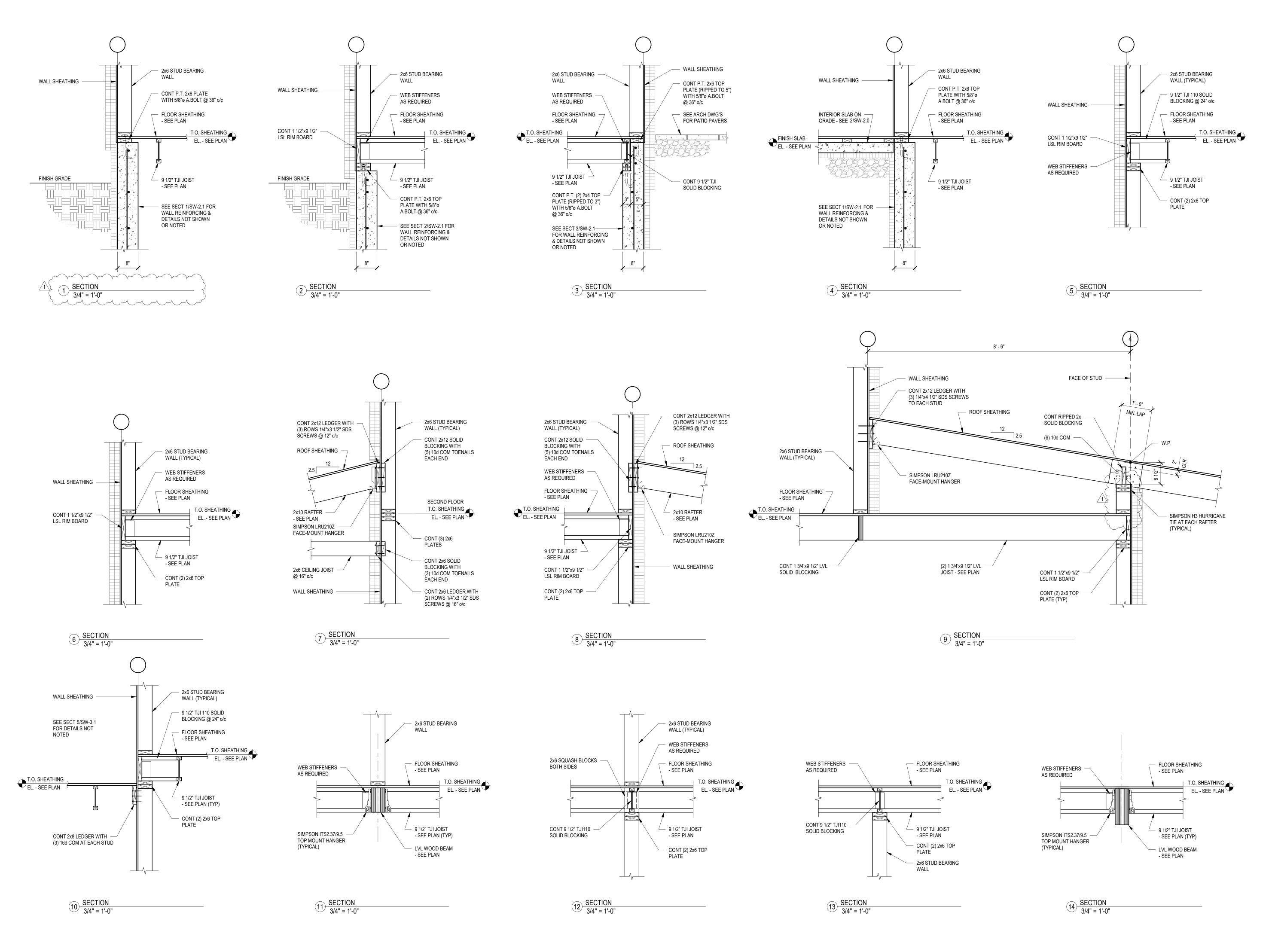
05/15/23 Scope Changes to Bid Set #1





Main Street, Meriden, NH 03770

TYPICAL FRAMING DETAILS





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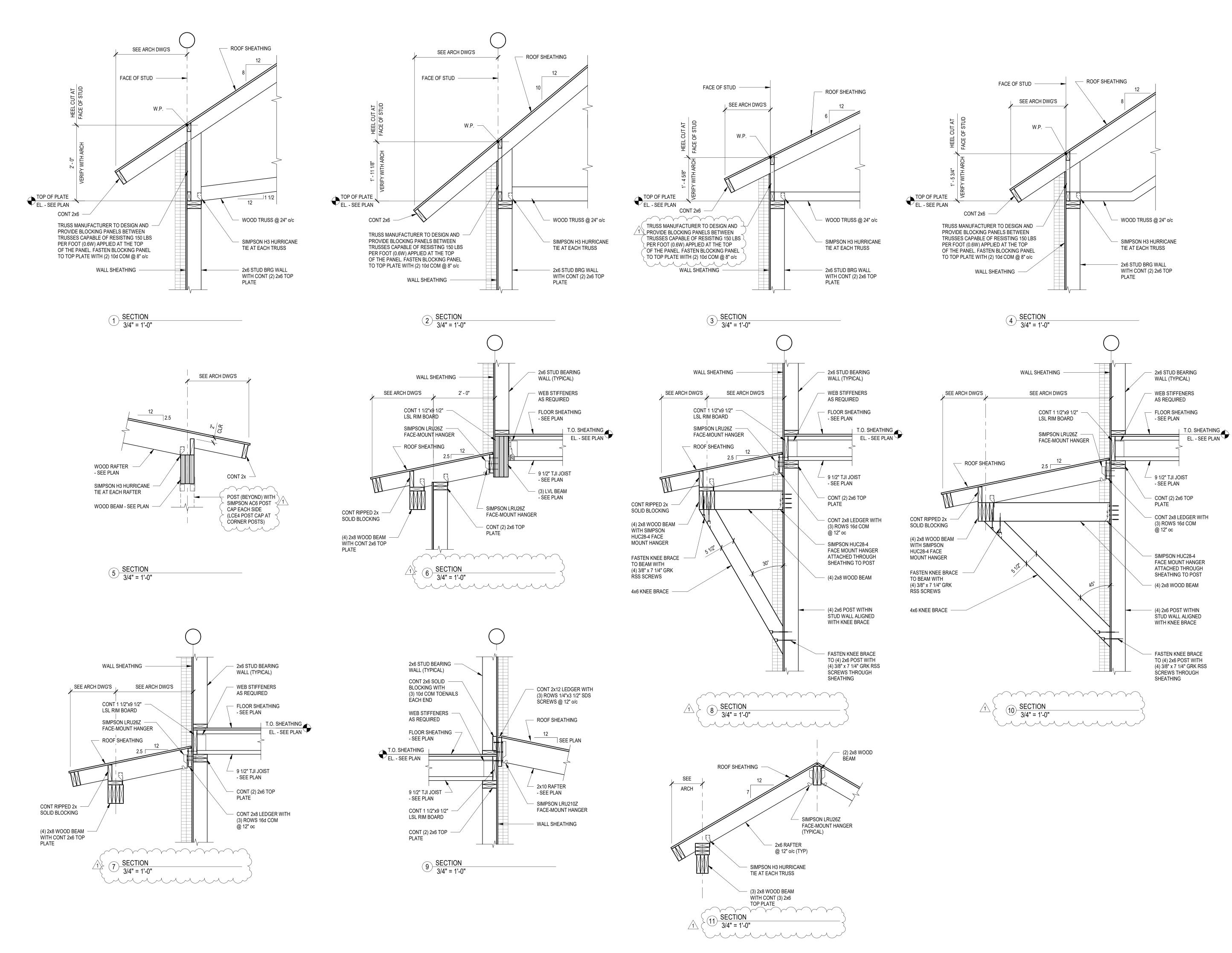
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Main Street, Meriden, NH 03770

FRAMING DETAILS

SW-3.1





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PERMIT SET 05/15/2023

KUA DORM PROJECT
MAY 12, 2023

ROBERT
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No. 08172

KUA

KILTON/WELCH

DORMITORIES

Main Street, Meriden, NH 03770

FRAMING DETAILS

SW-3.2

WOOD TRUSS DESIGN NOTES

- 1. VERIFY ALL TRUSS PROFILE DIMENSIONS WITH ARCH DRAWINGS.
- 2. TRUSS CONFIGURATION MAY VARY TO SUIT MANUFACTURER.
- 3. 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
- 4. TRUSS DESIGNER TO DESIGN ALL TRUSS-TO-TRUSS CONNECTIONS.
- 5. ROOF TRUSSES SHALL BE BOTTOM CHORD BEARING TRUSSES, UNLESS NOTED OTHERWISE IN SECTIONS.
- 6. TRUSSES SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS IN ACCORDANCE WITH 2015 IBC:

ROOF DESIGN LOADS:

DEAD LOAD = 15 PSF (INCLUDING 6 PSF FOR RACK-MOUNTED SOLAR) SNOW LOAD = 53 PSF (8:12-SLOPE); 44-PSE (10:12-SLOPE) WIND LOAD = MWFRS: 15 PSF (UPLIFT, 1.0W)

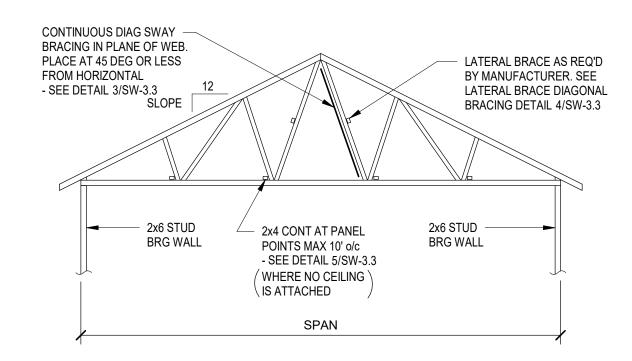
BOTTOM CHORD DEAD LOAD = 10 PSF

LIVE LOAD = 10 PSF WITH CLEAR HT LESS THAN 42 INCHES = 20 PSF WITH CLEAR HT GREATER THAN 42 INCHES

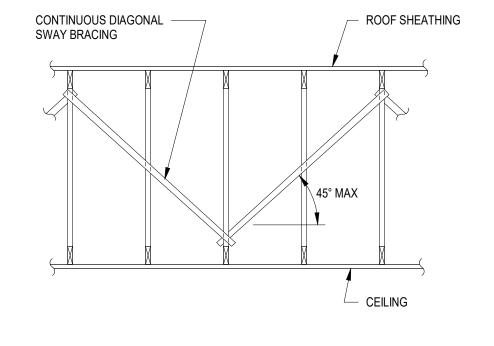
ROOF TRUSSES SHALL BE DESIGNED FOR AN UNBALANCED SNOW LOAD IN ADDITION TO THE LOADS NOTED ABOVE.

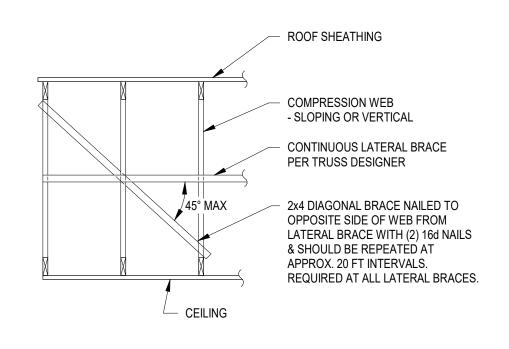
IN ADDITION TRUSS BOTTOM CHORDS ONLY SHALL BE ADEQUATE TO CARRY A 200 LBS CONCENTRATED LOAD PLACED ANYWHERE. LOAD DURATION FACTOR MAY BE INCREASED TO 1.50 WHEN THIS LOAD IS APPLIED.

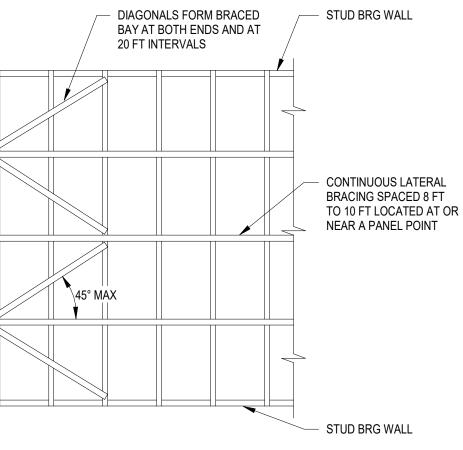
1) WOOD TRUSS DESIGN NOTES



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

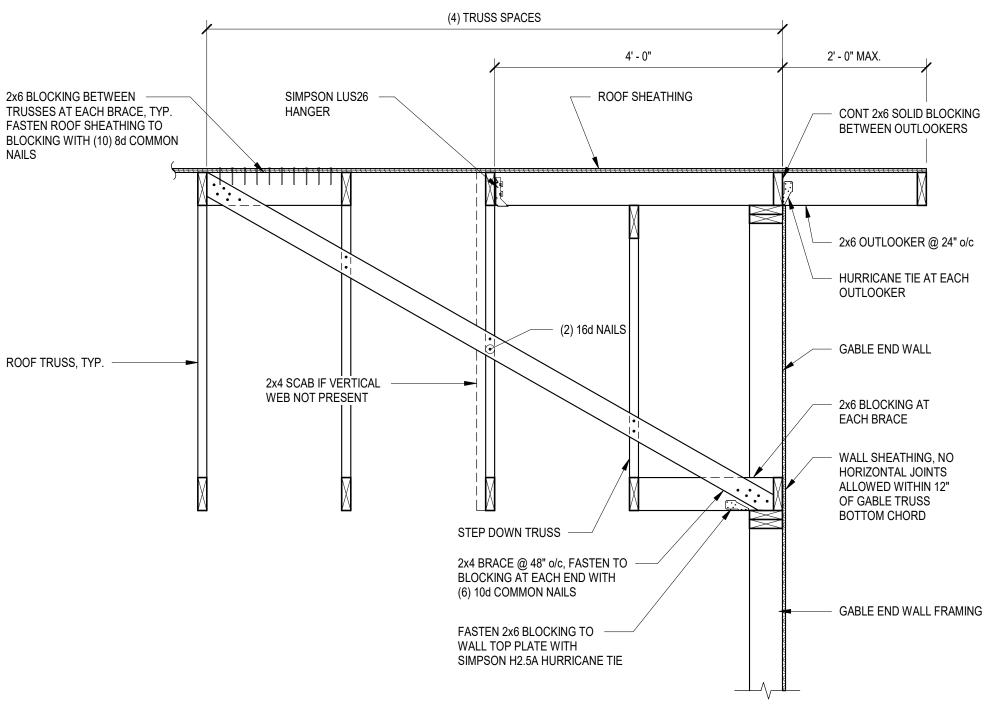


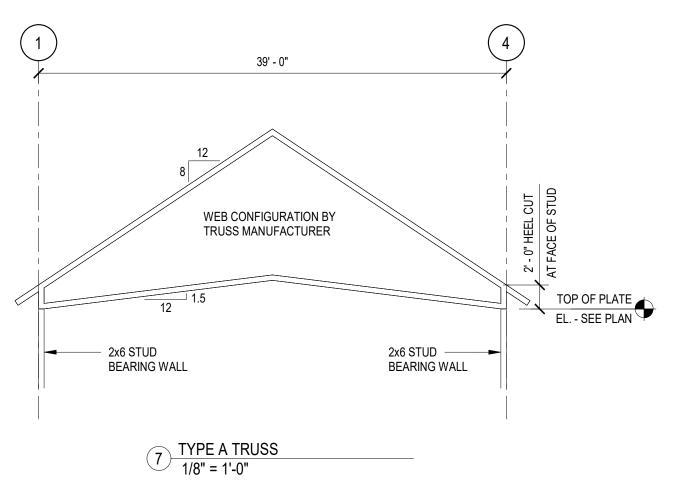


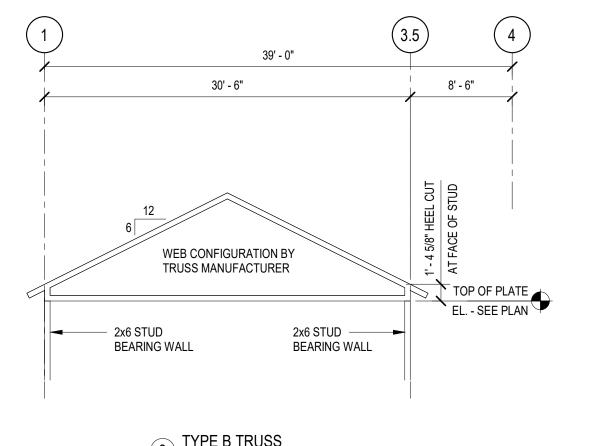


4 LATERAL BRACE DIAGONAL BRACING DETAIL 3 CONTINUOUS DIAGONAL SWAY BRACING DETAIL 1/8" = 1'-0"

WOOD TRUSS BOTTOM CHORD BRACING DETAIL

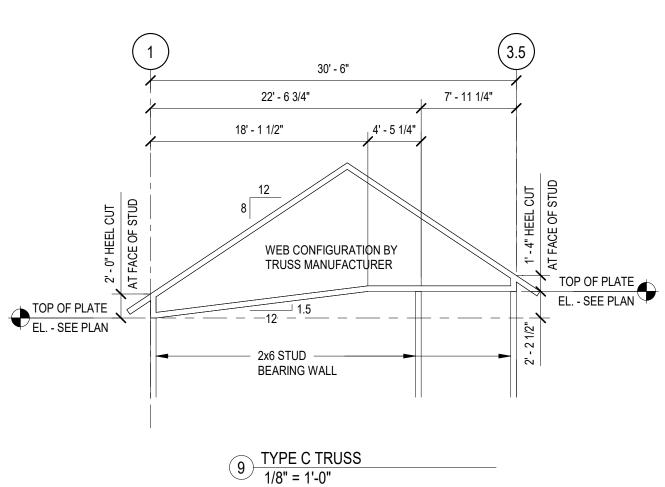






BEARING WALL

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



REVISIONS:

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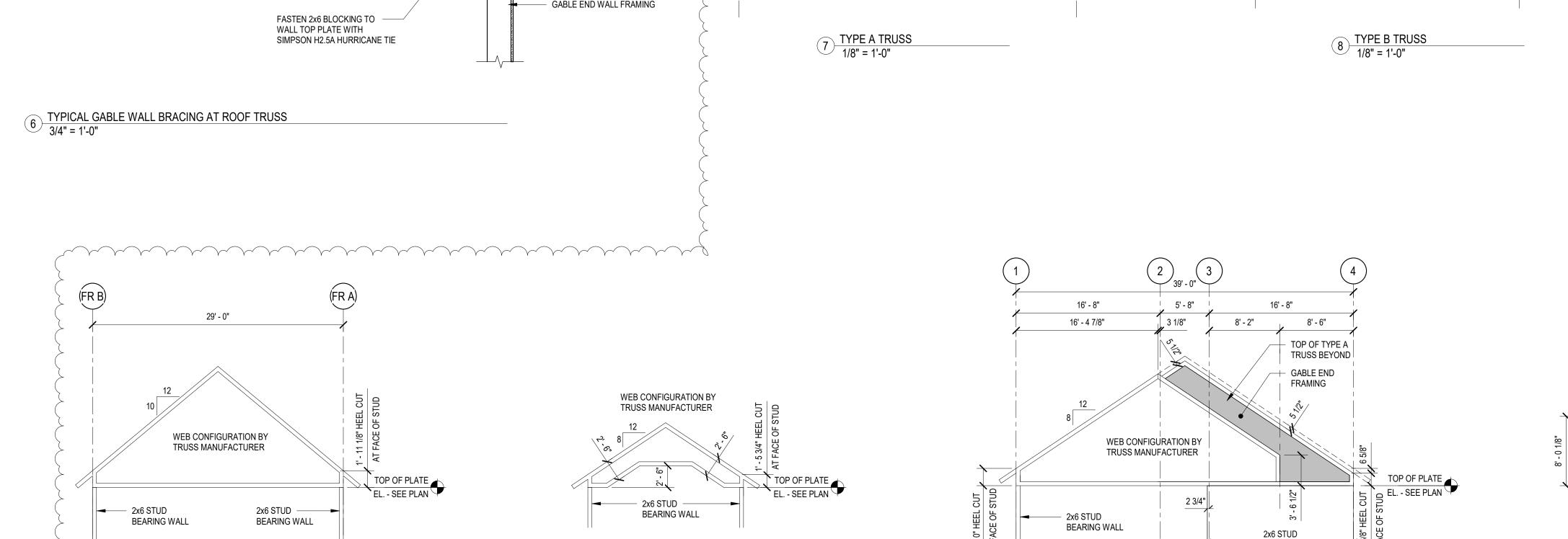
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PERMIT SET

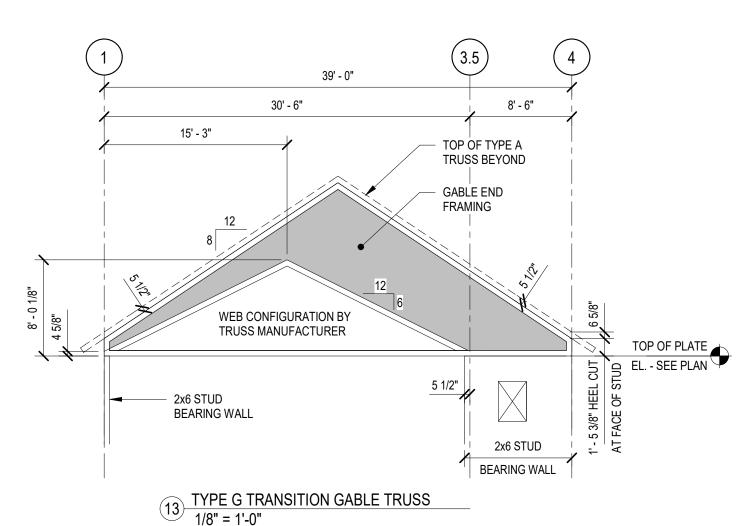


Main Street, Meriden, NH 03770

TYPICAL TRUSS DETAILS



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



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

SHEAR WALL SCHEDULE							
WALL MARK SHEATHING	NAILING		MINIMUM	BOTTOM PLATE			
	AT PANEL EDGES	AT INTERMEDIATE SUPPORTS	TIE DOWN STUDS ⁶	ATTACHMENT	SILL ANCHORS		
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"øx2 1/2") 16d COMMON (0.162"øx3 1/2")

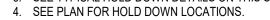
HOLD DOWN SCHEDULE						
MARK	HOLD DOWN	MINIMUM TIE DOWN STUDS ²	THREADED ROD ANCHOR	FASTENERS		
HD1	DTT2Z-SDS2.5	(2) 2x	1/2"Ø THREADED ROD	(8) 1/4" x 2 1/2" SDS SCREWS		
HD2	HTT4	(2) 2x	5/8"Ø THREADED ROD	(18) #10 x 1 1/2" SCREWS		
HD3	HTT5KT	(2) 2x	5/8"Ø THREADED ROD	(26) #10 x 2 1/2" SCREWS		
HD4	HDU8-SDS2.5	(3) 2x	7/8"Ø THREADED ROD	(20) 1/4" x 2 1/2" SDS SCREWS		

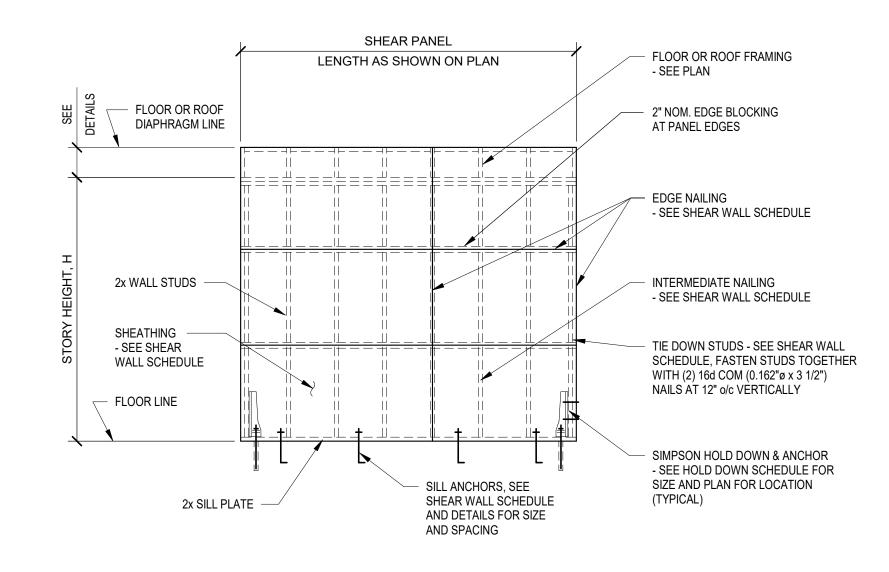
NOTES:

1. HOLD DOWNS BY SIMPSON STRONG-TIE.

2. PROVIDE MINIMUM TIE DOWN STUDS UNLESS END POST NOTED OTHERWISE ON PLAN.

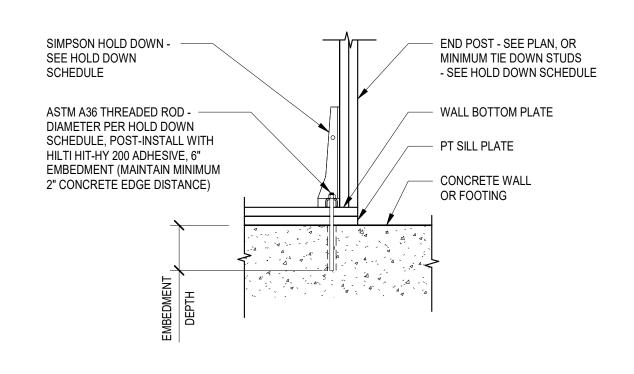
3. SEE TYPICAL HOLD DOWN DETAILS ON THIS SHEET.

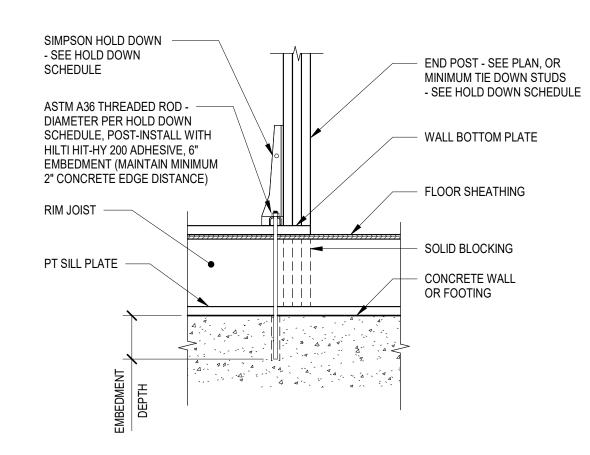


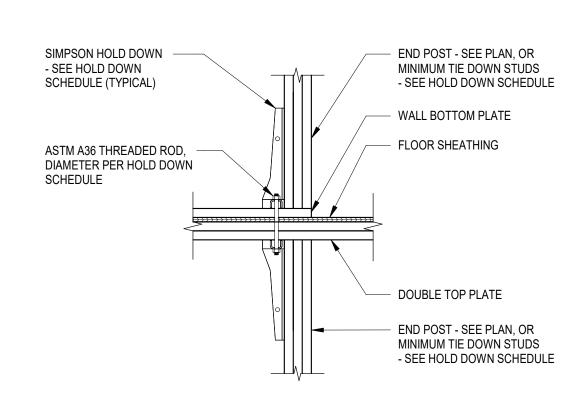


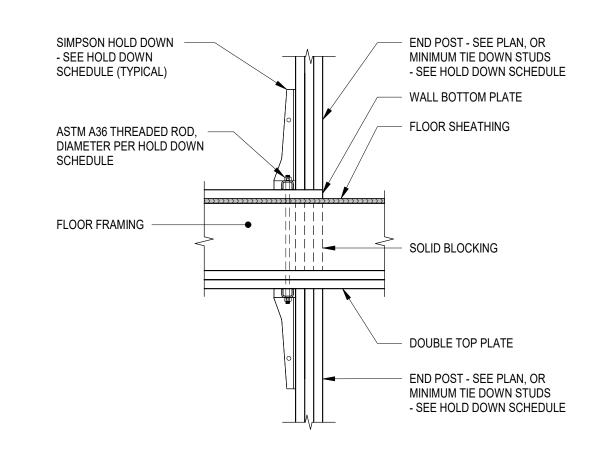


- 1. PROVIDE BLOCKING AT ALL PANEL EDGES. 2. ALL STUDS SHALL BE SPF No. 1 / No. 2 OR BETTER.
- 3. ALL WALL PLATES SHALL BE No. 1 / No. 2 OR BETTER.
- 4. ALL SHEATHING SHALL BE APA RATED. 5. ALL SHEAR WALLS TO EXTEND FROM FLOOR DIAPHRAGMS TO FLOOR OR ROOF DIAPHRAGMS.

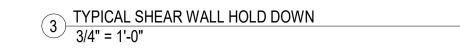








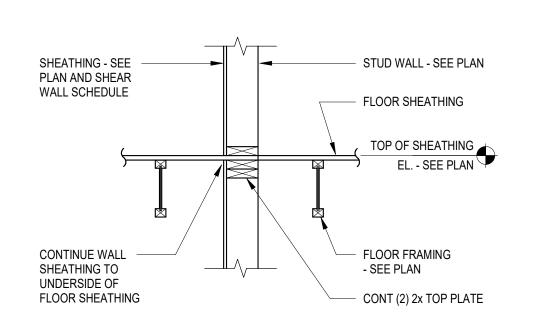


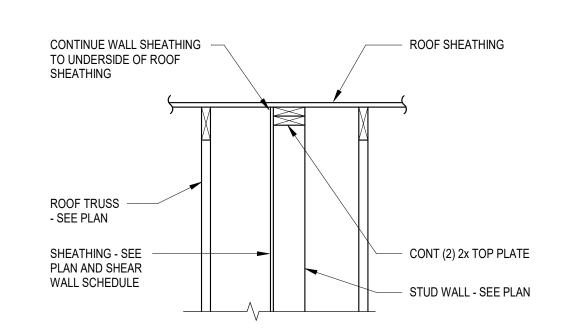


















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DATE ISSUED: 03/27/2023

Calvin Russell, Senior Project Manager

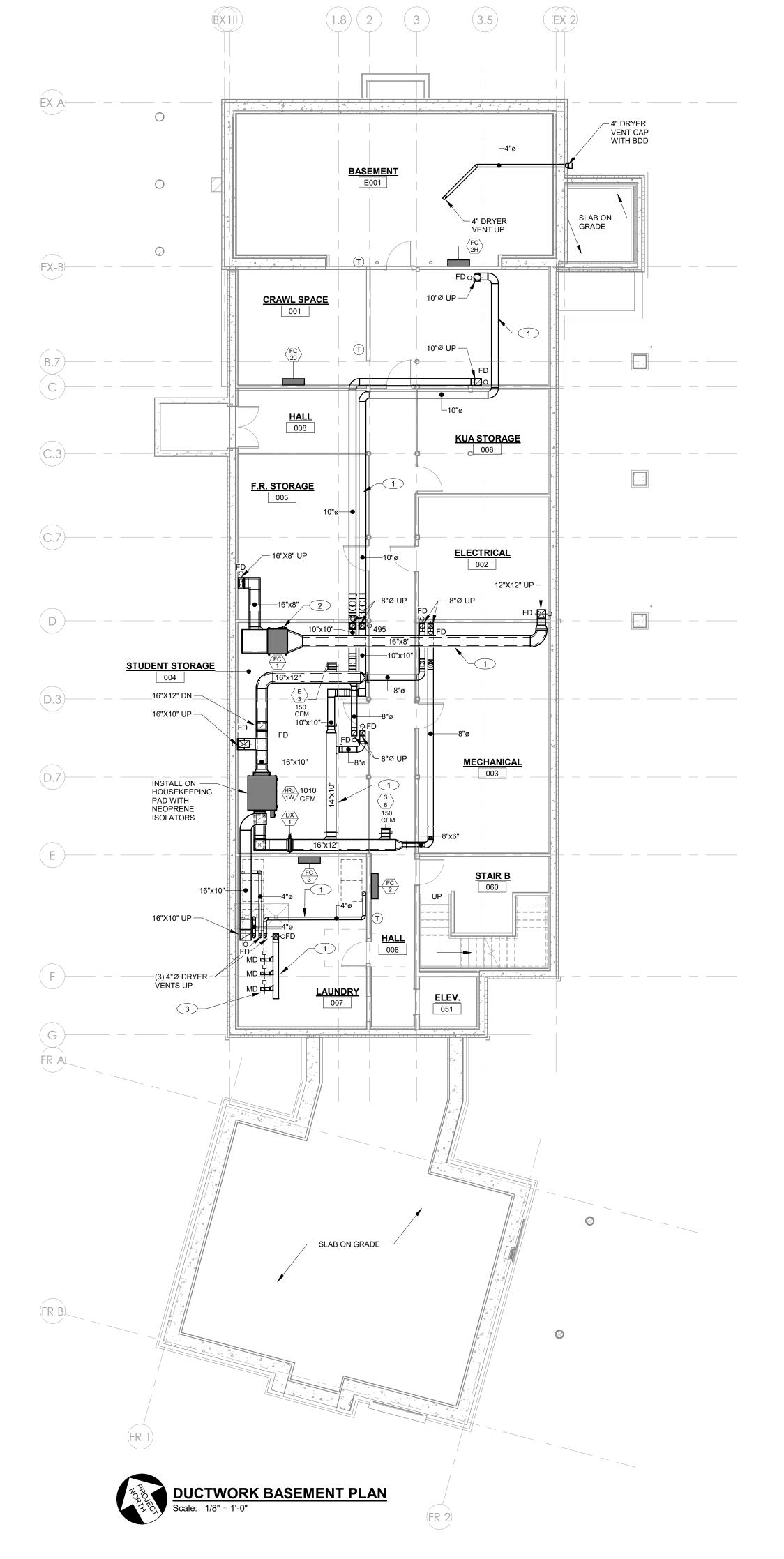
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TYPICAL SHEAR WALL DETAILS





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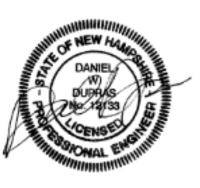
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KUA KILTON/WELCH DORMITORIES

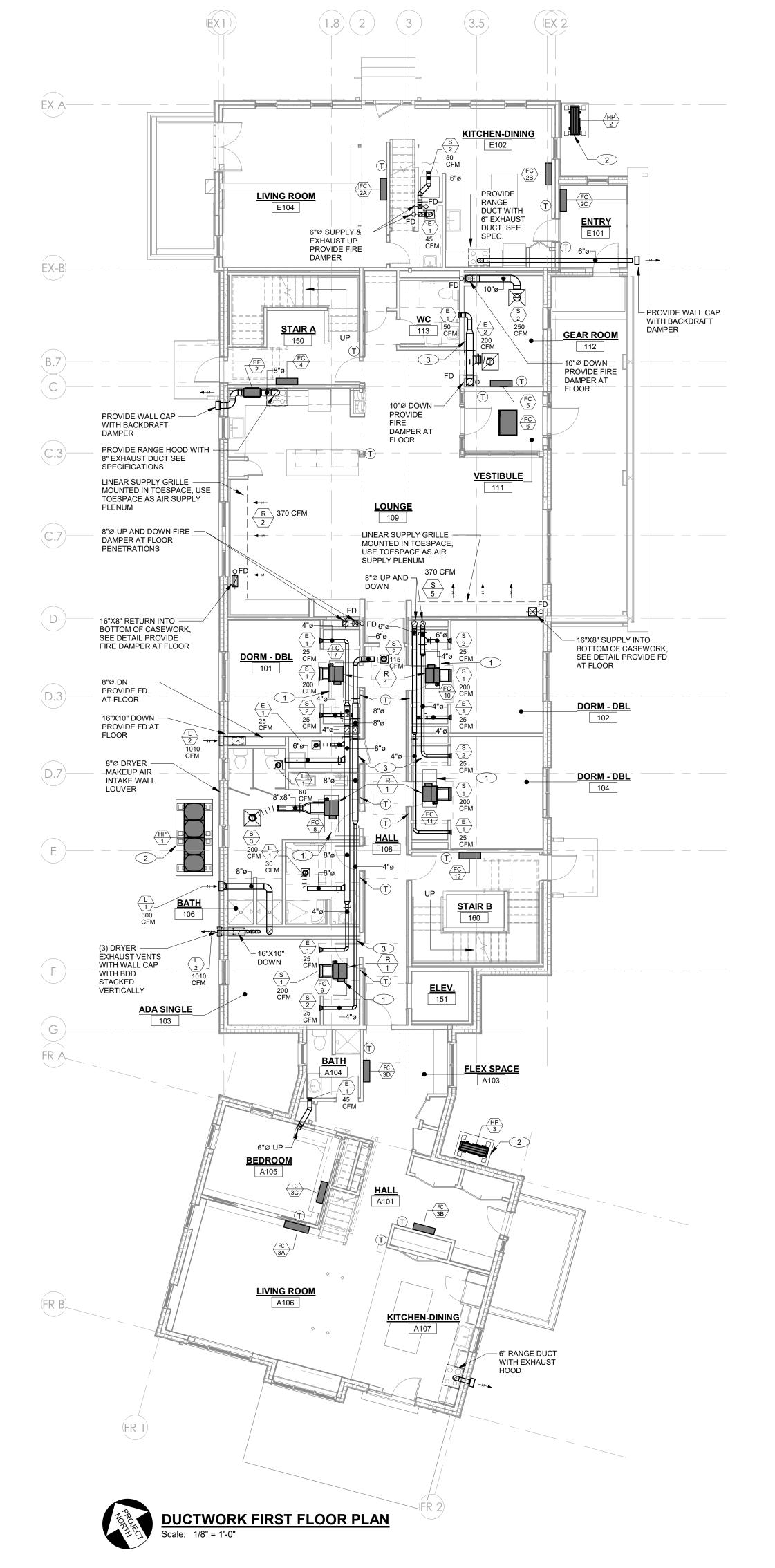
Main Street Meriden, NH 03770

WELCH BASEMENT - AIR

MW-1.1

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 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 DMAPER 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 PLIMP LINIT
- RUN ALL DUCTWORK IN SOFFIT, PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL GRILLES, REGISTERS AND DIFFUSERS.



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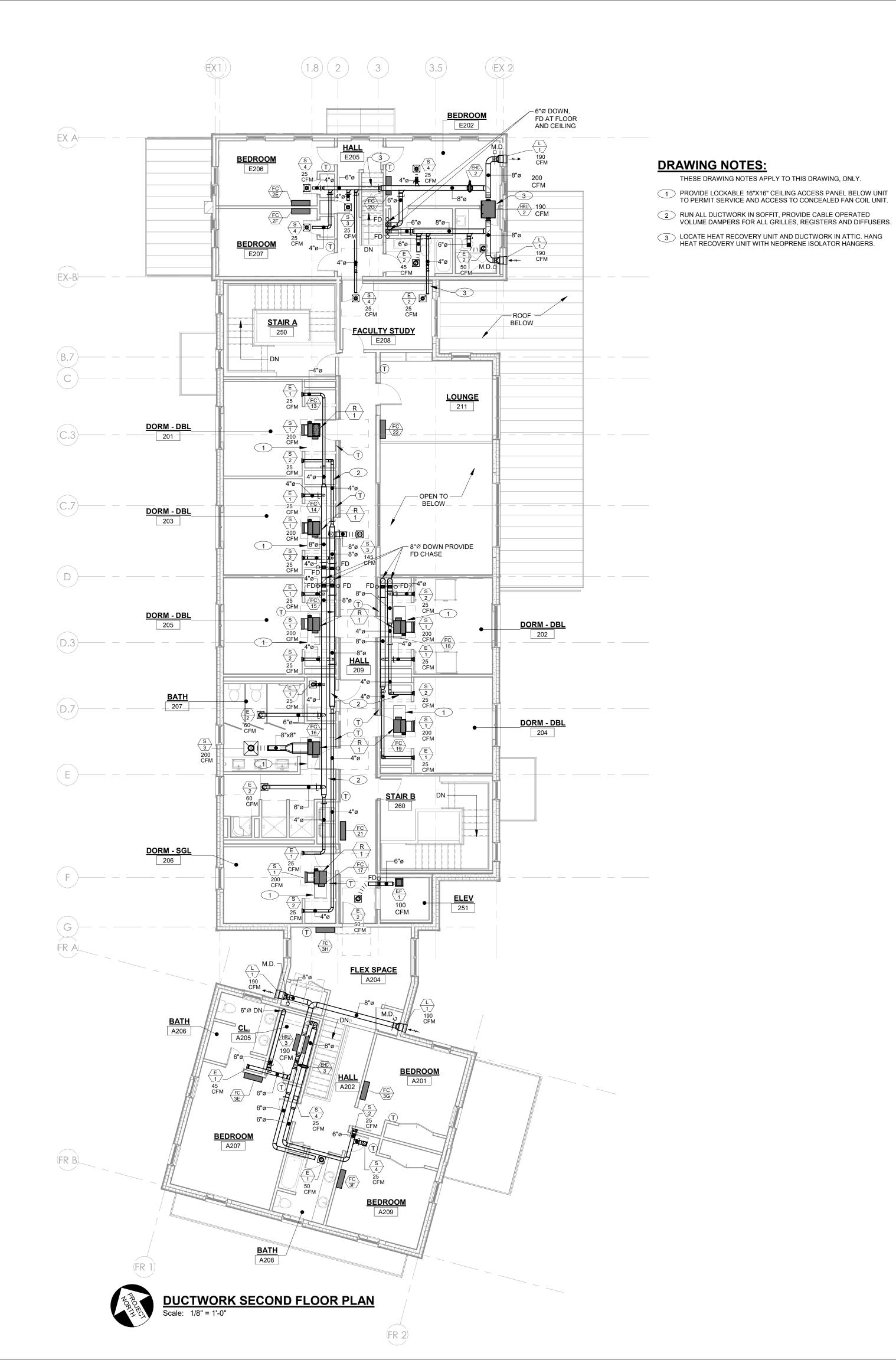
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KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

WELCH FIRST FLOOR - AIR

MW-1.2





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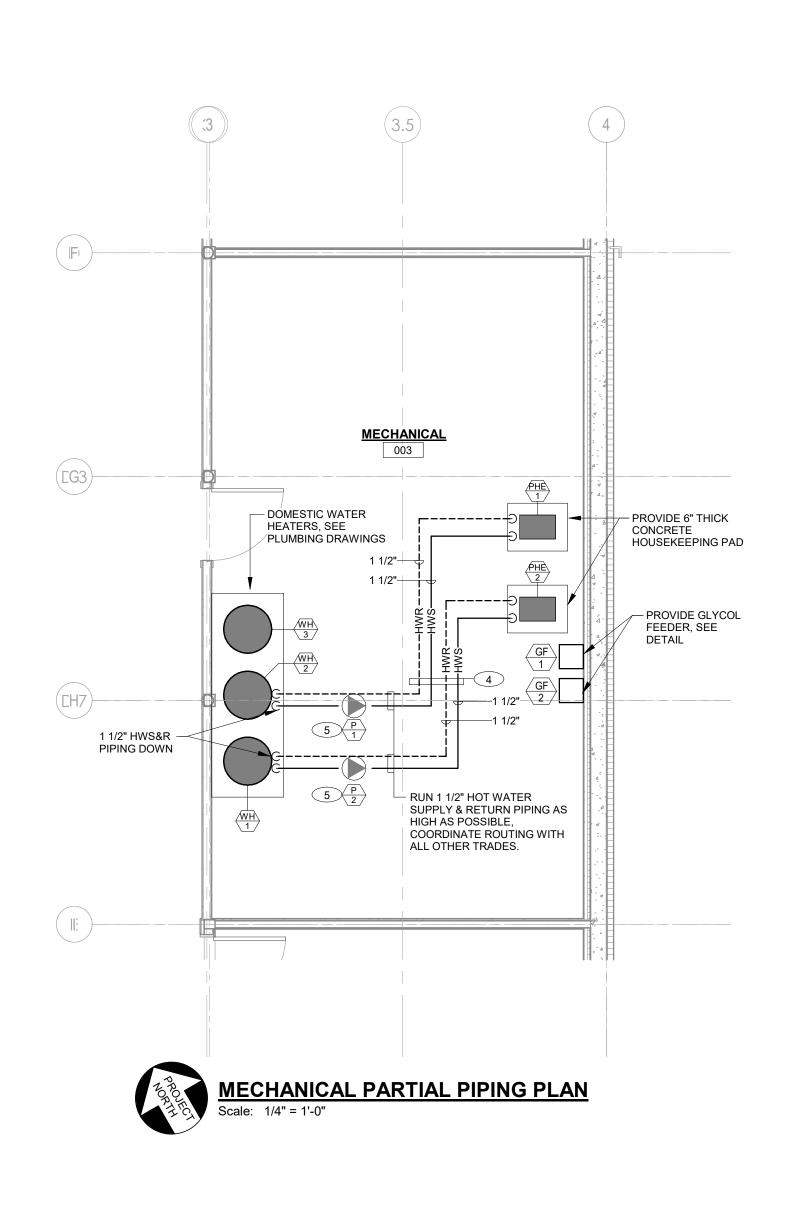
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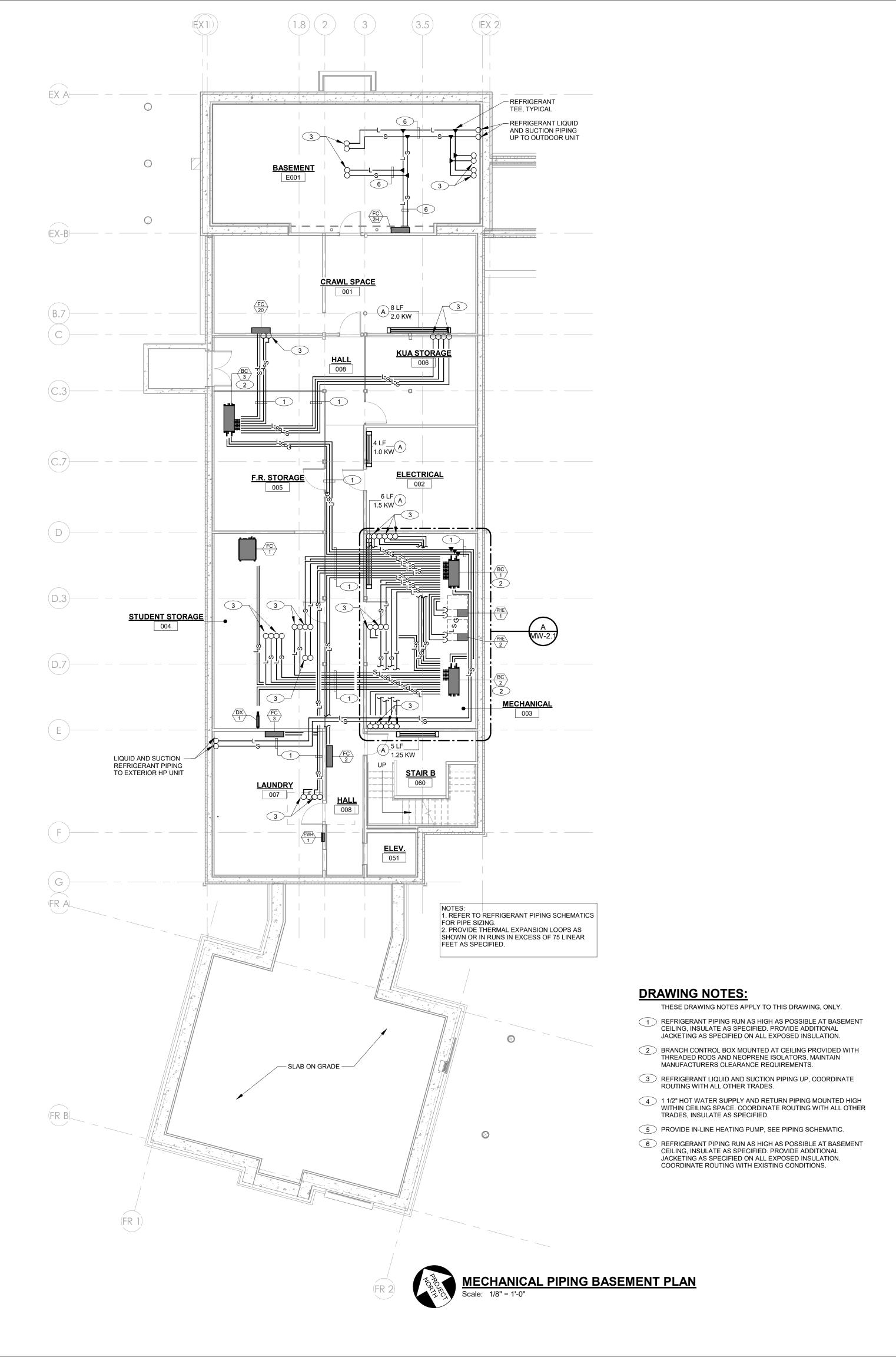
KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

WELCH SECOND FLOOR - AIR

MW-1.3







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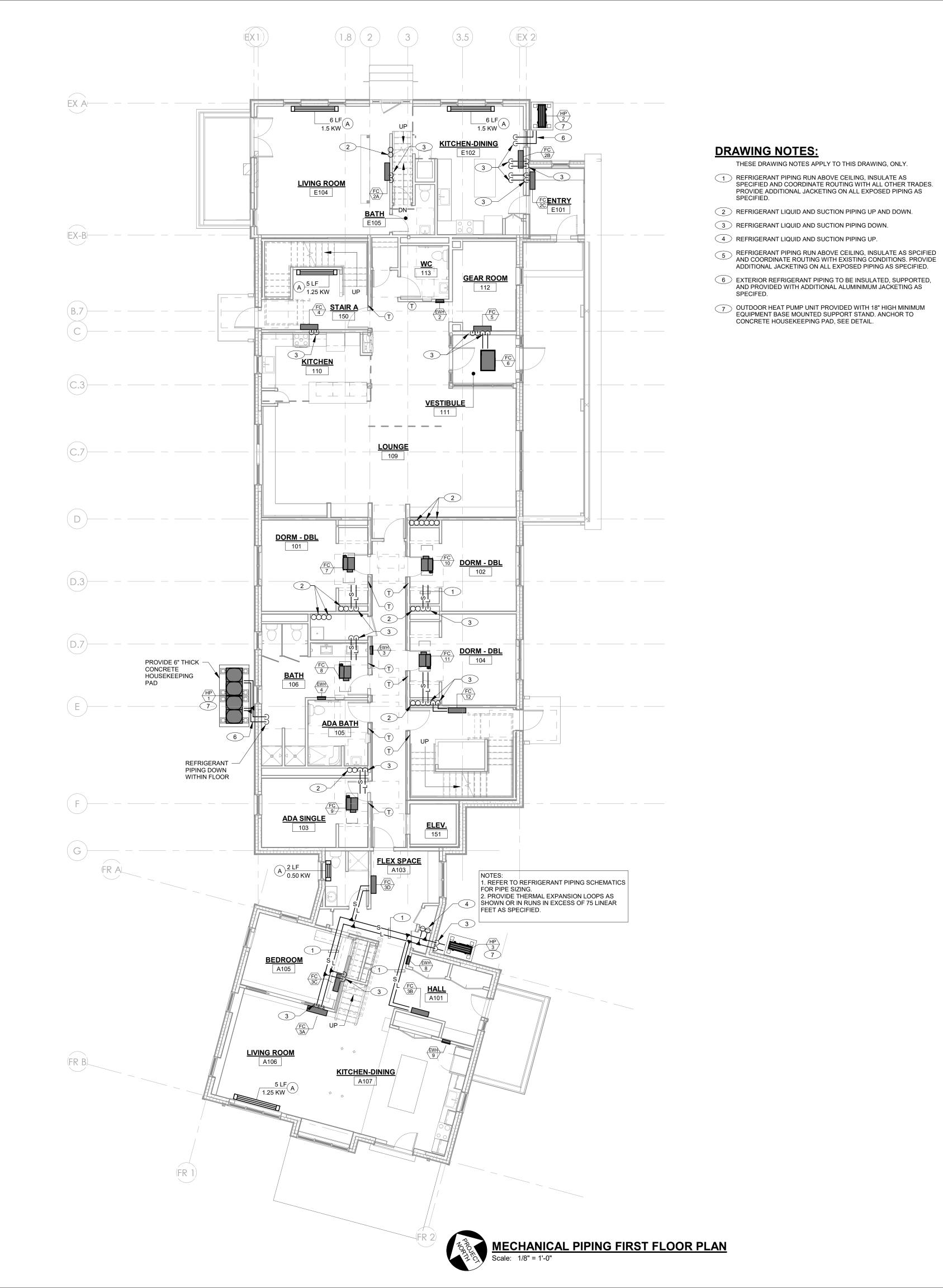
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KUA KILTON/WELCH DORMITORIES

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WELCH BASEMENT
- PIPING

MW-2.1





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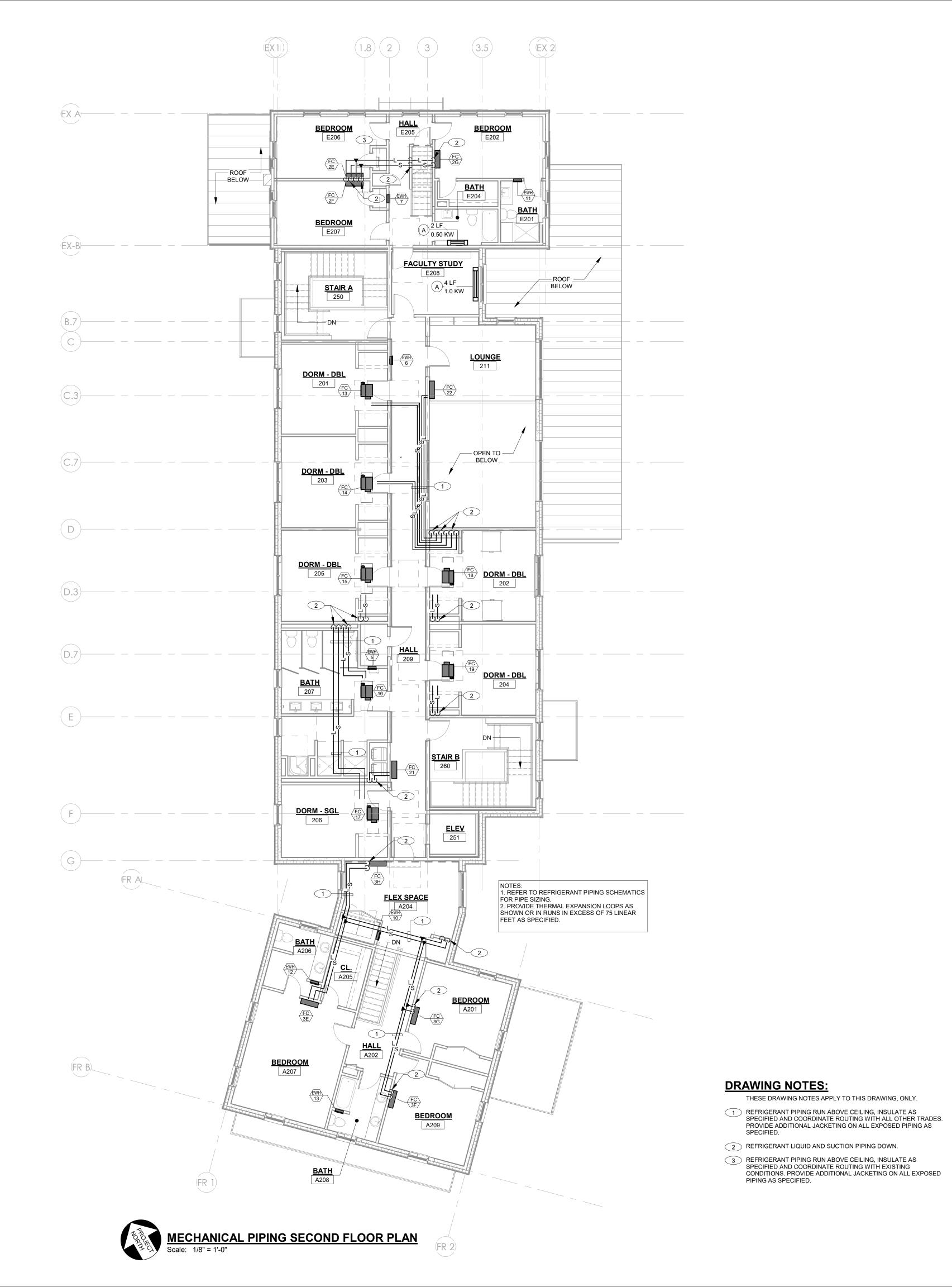
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KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

WELCH FIRST -PIPING

MW-2.2





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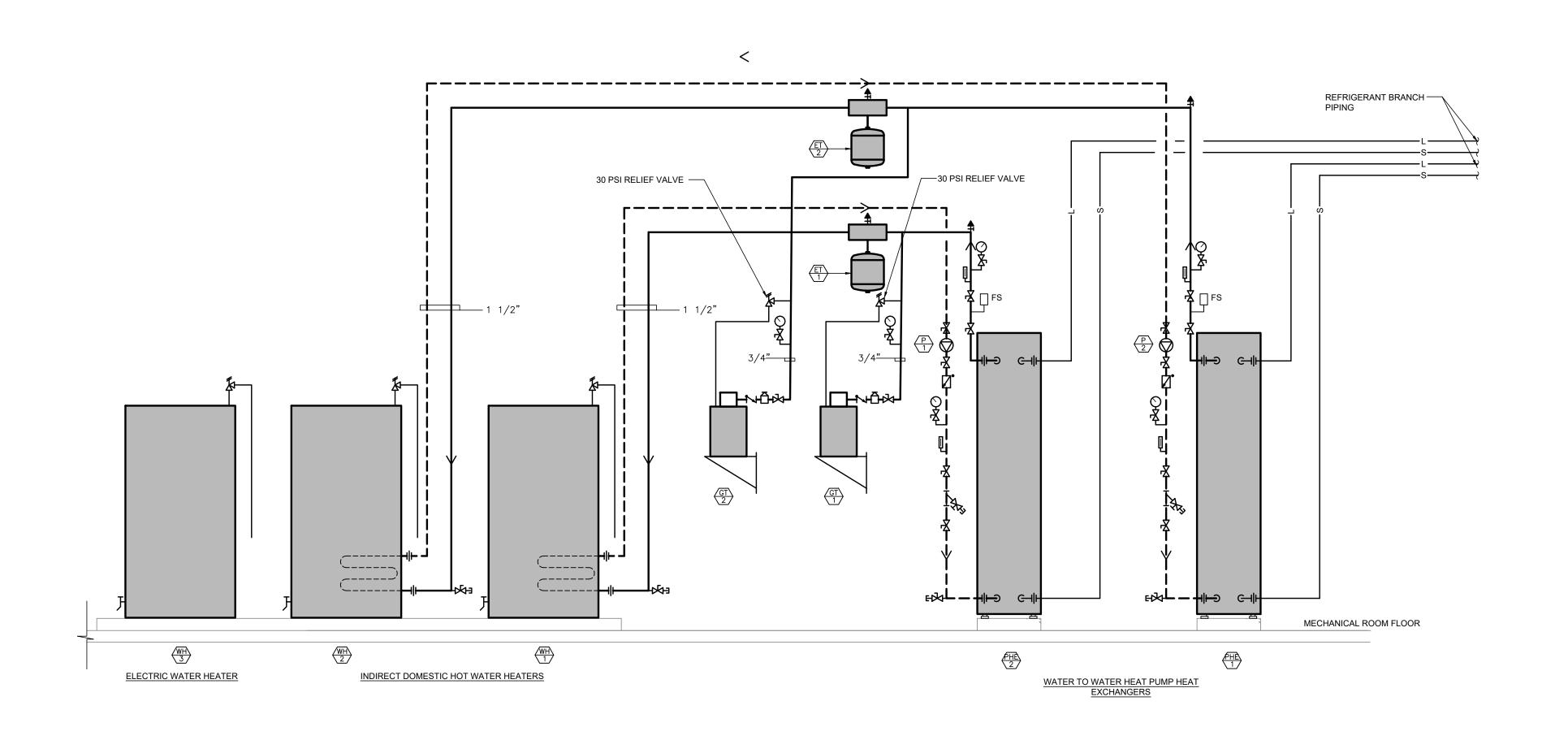
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KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

WELCH SECOND -PIPING

MW-2.3



HOT WATER SYSTEM PIPING DIAGRAM NOT TO SCALE

EQUIPMENT LIST ASS AS 1 2 AMTROL MODEL 445 AIR SCOOP WITH AIR VENT-SIZE 1 1/2" ETT ET AMTROL MODEL EX-60 EXPANSION TANK GT GT GT AXIOM MODEL MF200, 6 GALLON TANK WITH PUMP, TANK MOUNTING SHELF



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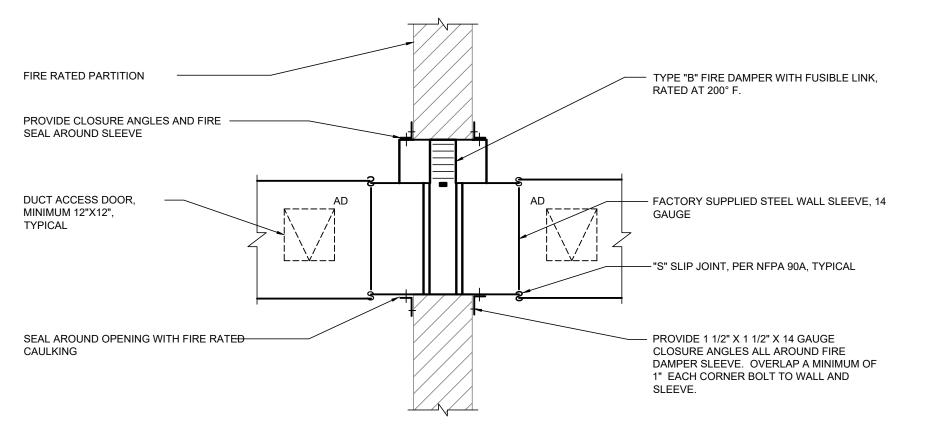


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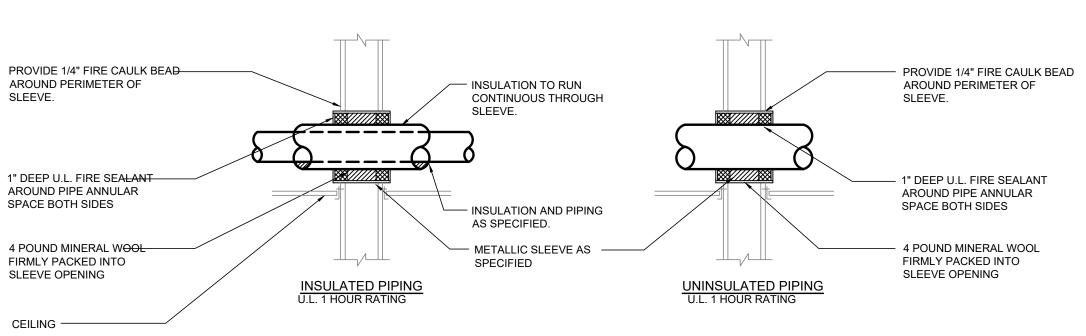
KUA KILTON/WELCH DORMITORIES

Main Street
Meriden, NH 03770
MECHANICAL
DETAILS

MW-3.1



FIRE DAMPER DETAIL



METALLIC PIPE WALL PENETRATION DETAILS

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.

- METALLIC PIPE

5/8" THICK MIN. U.L. LISTED

FIRE SEALANT AROUND

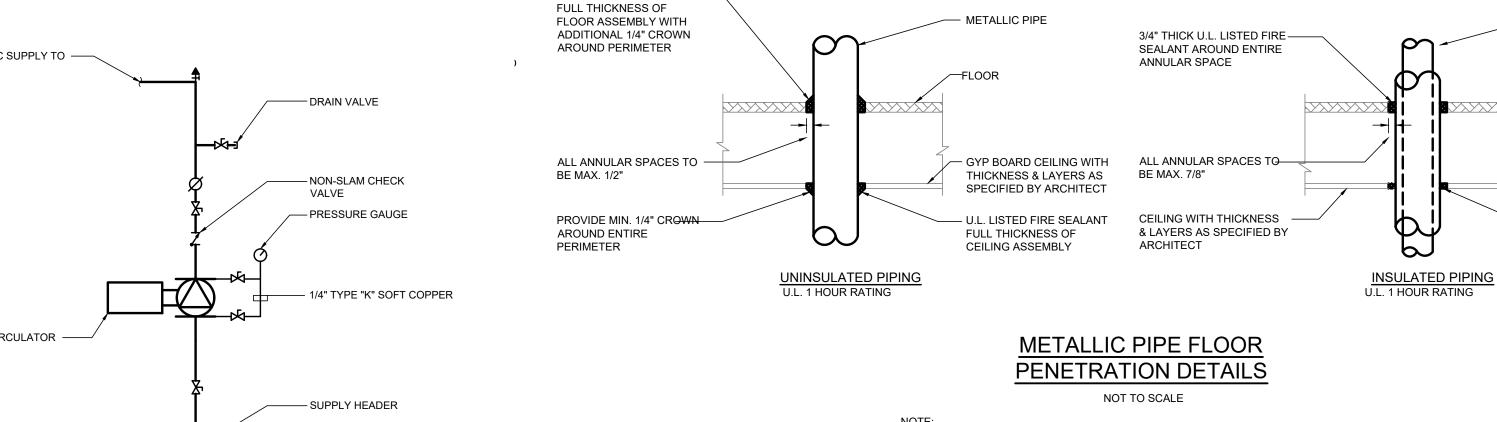
ENTIRE ANNULAR SPACE

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.

DUCT FLANGE AIR TIGHT TRANSITION TO ___ DISCHARGE AIR SENSOR SUPPLY TO BUILDING - DUCTWORK ACCESS DOOR, BOTH SIDES OF

DUCT COIL INSTALLATION DETAIL NOT TO SCALE



U.L. LISTED FIRE SEALANT -

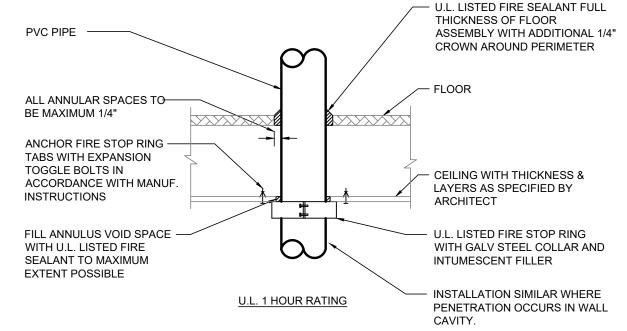
NOTE:
1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED. 2) ALL FIRE RATED FLOOR PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL. 3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS 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.

- и - MAIN DUCT - SQUARE TO ROUND TRANSITION TAKE OFF - LOCKING QUADRANT TYPE VOLUME FLEX DUCT BRANCH — DAMPER MAX 6'-0" TOTAL LENGTH, DON NOT USE BUCK DUCT SUPPLY DIFFUSER WITH ROUND NECK TRANSITION TYPICAL DIFFUSER/REGISTER

NOT TO SCALE



PVC PIPE FLOOR PENETRATION DETAILS NOT TO SCALE

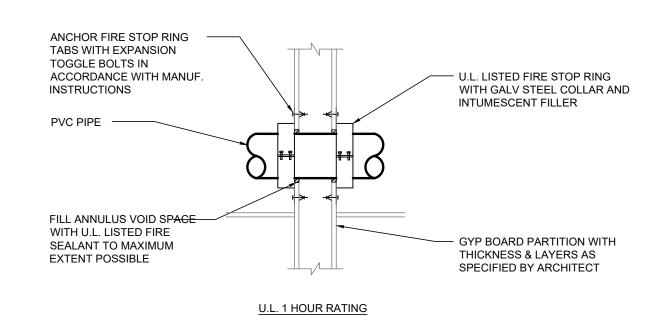
NOTE:

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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.



PVC PIPE WALL PENETRATION DETAILS

NOT TO SCALE

NOTE:

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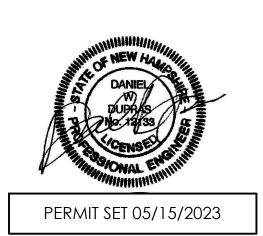
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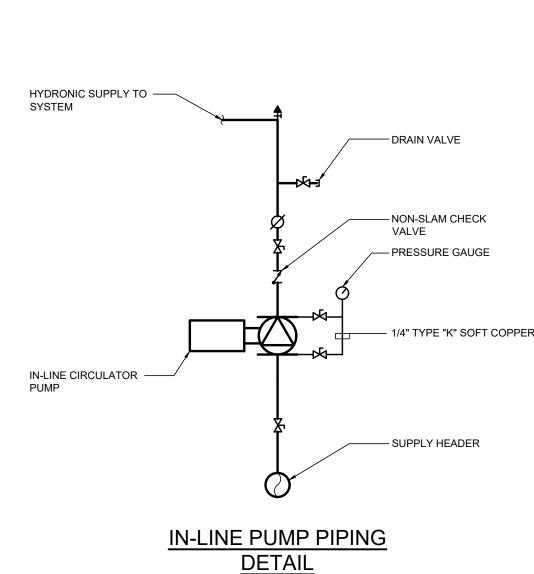
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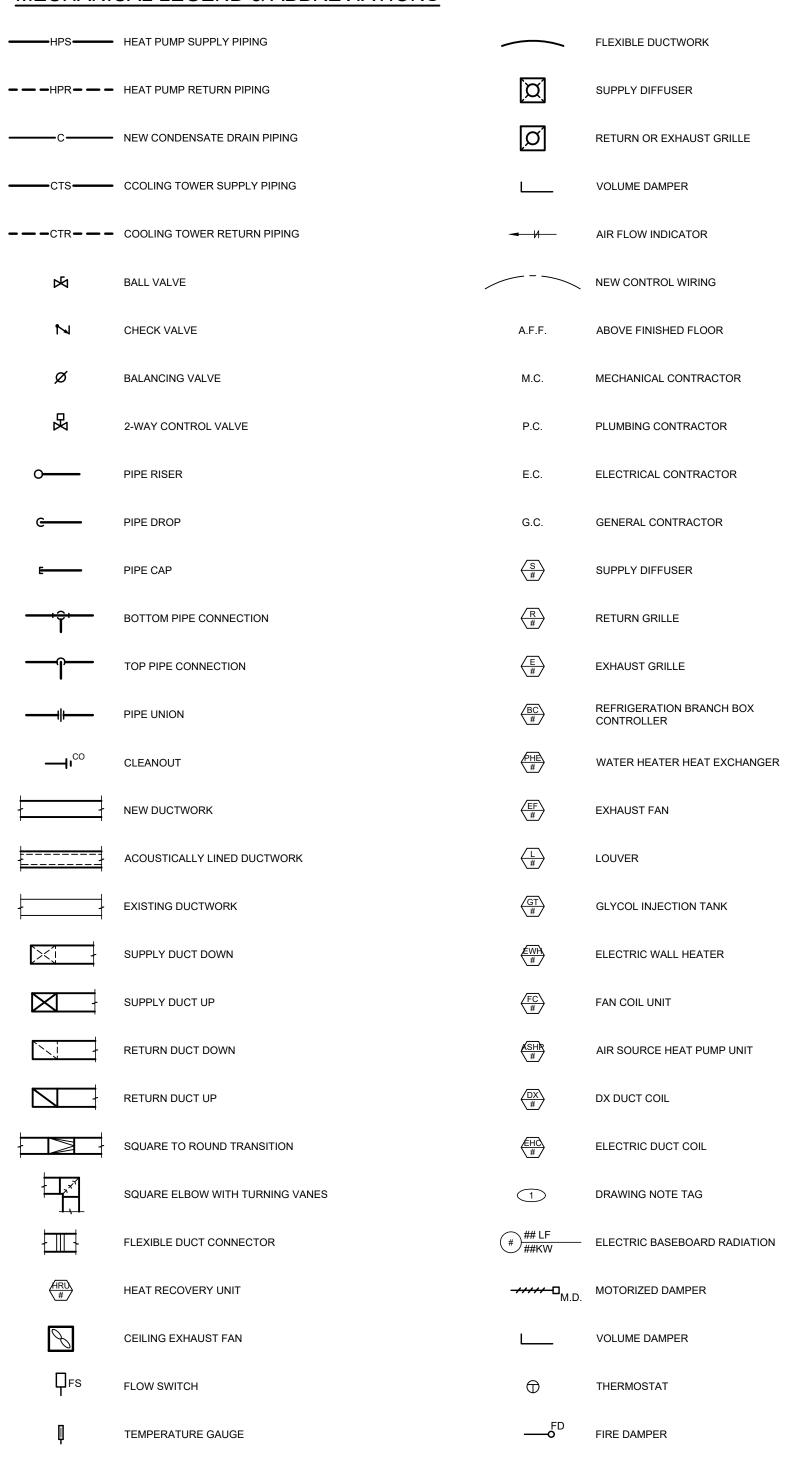


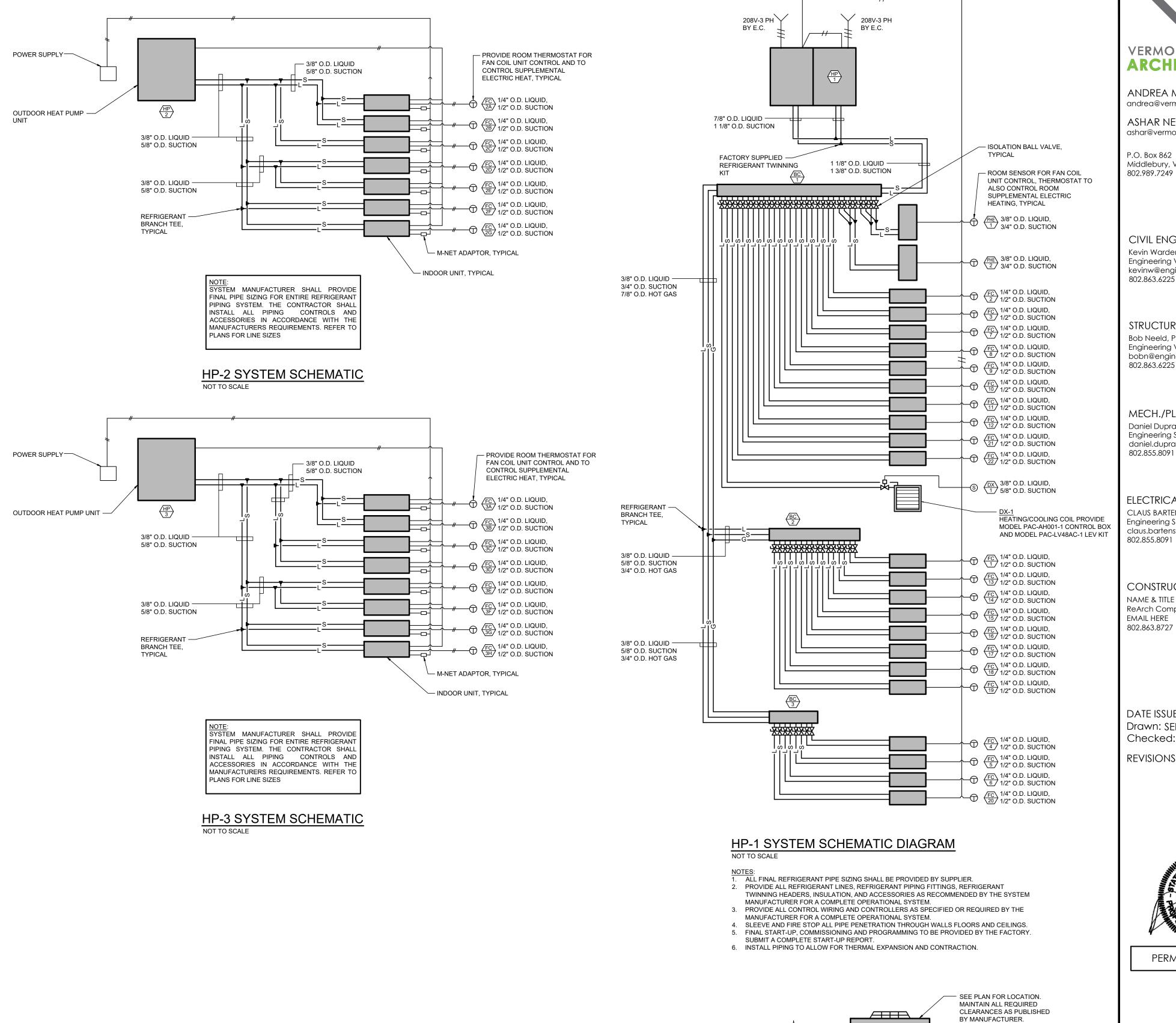
KUA KILTON/WELCH DORMITORIES

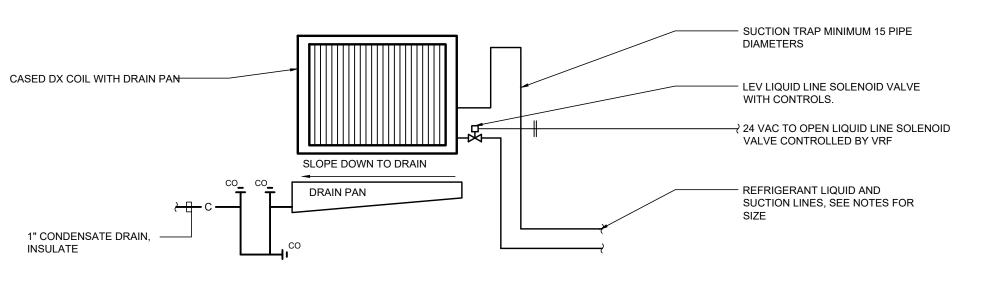
Main Street Meriden, NH 03770 MECHANICAL **DETAILS**



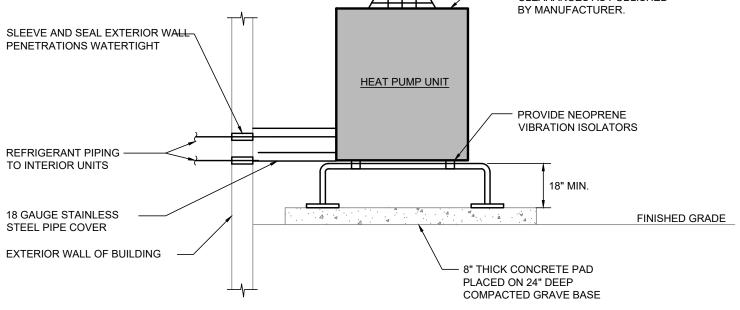
MECHANICAL LEGEND & ABBREVIATIONS







DX COIL REFRIGERANT PIPING DETAIL



HEAT PUMP UNIT DETAIL



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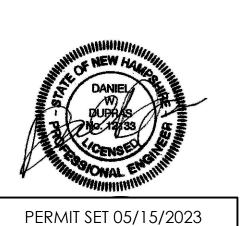
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KUA KILTON/WELCH DORMITORIES

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

HEAT	RECOVERY UNIT	SCHEDULE																PLAN SYMBOL	ARU #
						SUPPL'	Y & EXHAUS	T SIDE (TYP	PICAL OF TW	VO)									
REF.			AREA		MAX.		STAT			ECM N	MOTOR	1	EFFIC		EFFICI				
No.	MANUFACTURER/MODEL	MODEL	SERVED	CFM	FACE	RPM	PRESS. I		HP.	VOLTS	PHASE	HZ	WIN		SUMI			REMARKS	
					VEL. FPM		TOT.	EXT.	111 .	VOLIS	THACE	⊓∠	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, WERV13 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

UNIT TO BE FURNISHED WITH DOUBLE WALL CONSTRUCTION, FACTORY DISCONNECT, MOTORIZED DAMPERS ON INTAKE AND EXHAUST AIRSTREAMS, MERV 13 FILTERS, FACTORY SUPPLIED CONTROLS, AND NEOPRENE ISOLATORS, VED'S ON BOTH SUPPLY AND EXHAUST AIRSTREAMS, MERV 13 FILTERS, FACTORY ON BOTH SUPPLY AND EXHAUST AIRSTREAMS, MERV 13 FILTERS, FACTORY ON BOTH SUPPLY AND EXHAUST AIRSTREAMS, MERV 13 FILTERS, FACTORY SUPPLIED CONTROLS, AND NEOPRENE ISOLATORS, SUPPLIED CONTROLS, MERV 13 FILTERS, FACTORY DISCONNECT AND NEOPRENE ISOLATORS.
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 UNIT TO BE FURNISHED WITH FACTORY SUPPLIED CONTROLS, MERV 13 FILTERS, FACTORY DISCONNECT AND NEOPRENE ISOLATORS, MERV 13 FILTERS, FACTORY SUPPLIED CONTROLS, AND NEOPRENE ISOLATORS, A

W	ATER HEATE	R HEAT PUM	P SCI	HEDU	LE				PLAN SYMBOL	PHE #
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		

DIFFU	SER-GRILLE-REGI	STER-LOU	VER SCHEI	DULE		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:

SUBMIT COLOR CHART FOR COLOR SELECTION BY ARCHITECT, PROVIDE GALVANIZED STEEL BIRDSCREEN.

1/2" BOARD, 1/2 SQUARE STAMPED METAL, BLACK FINISH

ELE	CTRIC BASEBOAR	D RADIATI	ON SCHE	DULE				PLAN SYMBOL #
TYPE	MANUFACTURER (OR APPROVED EQUAL)	SERIES	LENGTH	VOLTS	PHASE	WATTS/LF	BTUH/LF	REMARKS
Α	QMARK	QMKC	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.

EXHAU	ST FAN SCHEDULE	<u> </u>									PLAN SYMBOL (#)
REF. NO.	MANUFACTURER	MODEL NO.	CFM	E.S.P.	TYPE	RPM		MOTOR			REMARKS
REF. NO.	MANOPACTORER	WODEL NO.	CFW	E.S.F.	ITPE	KPIVI	HP	VOLT	PHASE		REIVIARRS
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.

CIRCUL	ATOR PUMP SCHE	DULE							PLAN SYMBOL (P)
REF. NO.	MANUFACTURER	MODEL	MIN. FLOW	HEAD		MO	TOR		REMARKS
KELLINO.	WANTO ACTORER	WIODEL	(GPM)	(FT. HD.)	HP	VOLT	PHASE	RPM	NEWANNO
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.

ELECTR	IC WALL HEATER	SCHEDUI	_E						PLAN SYMBOL (#)
DEE NO	MANUEACTURER	MODEL	0175	\A/ATTC	DTIIII	E	ЕСМ МОТОГ	२	DEMARKS
REF. NO.	MANUFACTURER	MODEL	SIZE	WATTS	BTUH	AMPS	VOLT	PH	REMARKS
EWH-1 THROUGH EWH-9	QMARK	AWH	AWH4408F	2000	6824	9.6	208	1	SEE NOTES
EWH-10 THROUGH EWH-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.



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MECHANICAL SCHEDULES



OUTDO	OR AIR SOURCE HE	AT PUM	P UNIT SC	CHEDULE									PLAN SYMBOL (HP)
		NOMINIAL		COOLING	MAITED	LICATING			ELEC	TRICAL DAT	A		
REF. No.	MANUFACTURER/ MODEL	NOMINAL CAPACITY (TONS)	SUMMER AMBIENT TEMP. (°F)	COOLING CAPACITY (BTUH)	WINTER AMBIENT TEMP. (°F)	HEATING CAPACITY (BTUH)	REFRIG. TYPE	MAX FUSE	MCA AMPS	VOLTS	PHASE	HZ	REMARKS
HP-1	MITSUBISHI/PURY-EP288TSNU-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-SM48NAMHZ-U1	4.0	90	48,000	-13	54,000	R-410A	50	36	208/230	1	60	SEE NOTE 2
HP-3	MITSUBISHI/MXZ-SM42NAMHZ-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.

REF. NO.	MANUFACTURER	MODEL NO.	TOTAL COOLING MBH	TOTAL HEAT MBH	CFM	SOUND dBA	MCA AMPS	VOLTS	PHASE	REMARKS
EW DORMS - I	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
XISTING FACL	JLTY RESIDENCE - HEAT PUMP SY	STEM 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
	DENCE A - HEAT PUMP SYSTEM 3				1	1		<u> </u>	1	I
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 CONTRO	LLER							PLAN SYMBOL (BC)
REF. NO.	MANUFACTURER	MODEL	NUMBERS OF PORTS	CONNECTED			ELECTRICAL		REMARKS
NO.	WANUFACTURER	MODEL	NUMBERS OF FORTS	CAPACITY MBH	MCA	COOLING KW	HEATING KW	VOLTS/PH	REWARKS
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.

			SI	7F	E.A.	T. (°F)	L.A.	T. (°F)			
REF. No.	MANUFACTURER MODEL	ROWS	LENGTH	WIDTH	DB	WB	DB	WB	CFM	A.P.D (IN. WC)	REMARKS
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



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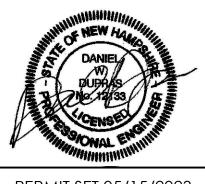
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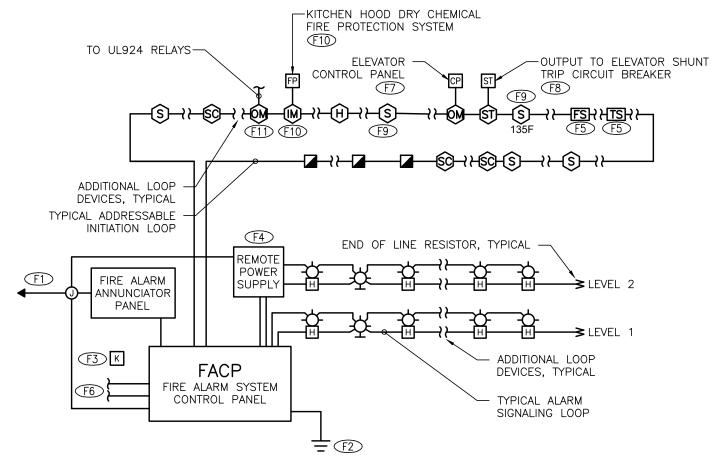


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MECHANICAL SCHEDULES



FIRE ALARM SYSTEM RISER DIAGRAM

FIRE RISER GENERAL NOTES:

- 1. COORDINATE FIRE ALARM SYSTEM DESIGN AND INSTALLATION WITH THE MUNICIPAL FIRE DEPARTMENT; SUBMIT SUBMITTAL DOCUMENTATION FOR THEIR REVIEW PRIOR TO ANY
- 2. FIRE ALARM SYSTEM SHALL MEET ALL VERMONT STATE CODE REQUIREMENTS. DEVICE INSTALLATION HEIGHTS AND SIGNAL COVERAGE SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
- 3. LOCATE FIRE ALARM EQUIPMENT AND DEVICES, GENERALLY, AS FOLLOWS:
- 3.1. MANUAL PULLSTATIONS: 3.2. VISUAL SIGNALS (STROBES): 84" AFF
- 3.3. REMOTE TEST STATIONS: 54" AFF
- 72" AFF TO TOP 3.4. FIRE ALARM PANEL: 3.5. REFER TO SPECIFICATIONS FOR ADDITIONAL RELATED, INFORMATION
- 4. INSTALLED FIRE ALARM SYSTEM SHALL BE ACCEPTANCE TESTED AS PER THE REQUIREMENTS OF NFPA 72, "INSPECTIONS, TESTING AND MAINTENANCE". INCLUDE THE COMPLETED "INSPECTION AND TESTING FORM" WITH THE OPERATION AND MAINTENANCE MANUALS THAT ARE ULTIMATELY PRESENTED TO THE OWNER.
- 5. PROVIDE FIRE ALARM SYSTEM INITIATION AND SIGNALING LOOP WIRING USING UL LISTED FIRE ALARM CABLE. SIZE CABLES APPROPRIATE FOR LOAD AND VOLTAGE DROP OF WIRING LOOPS. CABLING SHALL BE RUN WITHOUT RACEWAY WHERE CONCEALED IN WALLS OR ABOVE CEILINGS OR WHERE RUN IN EXPOSED ROOF STRUCTURE. PROVIDE RACEWAY WHERE RUN EXPOSED VERTICALLY ON WALLS OF SERVICE LEVEL TO MATCH RACEWAY UTILIZED FOR POWER
- 6. PROVIDE RED BOXES/COVERS FOR FIRE ALARM SYSTEM.
- 7. DORMITORY ROOMS: UPON A SMOKE DETECTOR LOCATED IN A DORM ROOM SENSING SMOKE, THE SIGNALING DEVICE IN THAT ROOM SHALL OPERATE (ONLY THAT DEVICE SHALL ALARM) AND CAUSE A TROUBLE SIGNAL AT THE FIRE ALARM SYSTEM. THE DORMITORY SMOKE DETECTORS SHALL OPERATE IN THE SAME/SIMILAR FASHION AS A SINGLE STATION DETECTOR EVÉN THOUGH IT IS A SYSTEM DETECTOR.
- 8. FACULTY RESIDENCES: UPON A SMOKE OR SMOKE/CO DETECTOR LOCATED IN A FACULTY RESIDENCE SENSING SMOKE OR CO, ALL SIGNALING DEVICES IN THAT RESIDENCE SHALL OPERATE AND CAUSE A TROUBLE SIGNAL AT THE BUILDING FIRE ALARM SYSTEM. THE FACULTY RESIDENCE SMOKE AND SMOKE/CO DETECTORS SHALL OPERATE IN THE SAME/SIMILAR FASHION AS MULTIPLE STATION DETECTORS EVEN THOUGH THEY ARE SYSTEM DETECTORS.

FIRE RISER DRAWING NOTES:

- F1 PROVIDE A 20A1P, 120VAC CIRCUIT TO THIS EQUIPMENT. PROVIDE A LOCK-ON CLIP FOR THE CIRCUIT BREAKER.
- F2 PROVIDE #4 AWG GROUND WIRE TO AN ELECTRICAL SYSTEM GROUNDING ELECTRODE.
- F3 PROVIDE KEY BOX PER FIRE DEPARTMENT REQUIREMENTS AND LOCATE AS PER MUNICIPAL FIRE DEPARTMENT DIRECTION.
- F4) PROVIDE A REMOTE POWER SUPPLIES (NAC, SNAC, ETC.) AS NECESSARY TO SUPPORT POWERING OF ALARM SIGNALS THROUGHOUT THE FACILITY. THE REMOTE POWER SUPPLY IS NOT INDICATED ON PLANS; LOCATE IN A NON-PUBLIC SPACE AND INDICATE LOCATION ON SHOP DRAWINGS. PROVIDE
- F5 COORDINATE THE FINAL LOCATION AND QUANTITY OF SPRINKLER SYSTEM FLOW SWITCHES, TAMPER SWITCHES, ETC. WITH THE FINAL FIRE ALARM AND SPRINKLER SHOP DRAWINGS PRIOR TO INSTALLATION. COORDINATE CONNECTIONS WITH SPRINKLER SYSTEM CONTRACTOR.

SMOKE DETECTOR ABOVE WHERE PANEL IS LOCATED.

- (F6) PROVIDE CONNECTION TO TWO TELEPHONE LINES FOR PROPER OPERATION OF FIRE ALARM PANEL DIGITAL DIALER AS PRIMARY COMMUNICATION FOR TRANSMITTING OF ALARM CONDITIONS OFF-SITE TO EITHER CENTRALLY MANNED STATION OR TO THE MUNICIPAL FIRE DEPARTMENT.
- F7 PROVIDE OUTPUT MODULES TO SEND SIGNAL TO ELEVATOR TO INITIATE RECALL UPON ALARM SIGNAL FROM HEAT OR SMOKE DETECTORS IN ELEVATOR MACHINE ROOM, SHAFT OR ELEVATOR
- F8 PROVIDE OUTPUT MODULES TO SEND SIGNAL TO ELEVATOR SHUNT TRIP CIRCUIT BREAKER TO OPEN UPON SIGNAL FROM 135F FIXED TEMPERATURE HEAT DETECTOR AT TOP OF SHAFT.
- F9 COMBINATION SMOKE DETECTOR WITH 135F FIXED EMPERATURE HEAT DETECTOR AT THE TOP OF SHAFT.
- (F10) PROVIDE INPUT MODULE TO MONITOR KITCHEN HOOD FIRE PROTECTION SYSTEM AND SEND SIGNAL FOR ALARM TO TH FIRE ALARM SYSTEM UPON SENSING FIRE AND RELEASING
- F11) PROVIDE OUTPUT MODULES AS NECESSARY FOR SIGNAL TO UL924 RELAYS TO BRING EMERGENCY LIGHTING TO FULL OUTPUT UPON FIRE ALARM GOING INTO ALARM.

ELECTRICAL LEGEND:

SEE LUMINAIRE SCHEDULE FOR LUMINAIRE

OCCUPANCY SENSOR LIGHTING CONTROL DEVICE; REFER TO SCHEDULE DAYLIGHT SENSOR MANUAL SINGLE POLE LIGHTING SWITCH; 3 = 3 WAY, OC = OCCUPANCY SENSOR, PIR =

- PASSIVE INFRARED; DT = DUAL TECHNOLOGY; D = DIMMING, LV = LOW VOLTAGE, P = SWITCH WITH PILOT, K = KEYED SWITCH
- PHOTOELECTRIC CONTROL SENSOR
- TIMECLOCK CONTROLLER
- ELECTRICAL PANELBOARD
- ELECTRIC METER HOMERUN TO PANEL INDICATED
- BRANCH CIRCUIT OR FEEDER WIRING
- UNDERGROUND WIRING
- SINGLE RECEPTACLE OUTLET
- DUPLEX RECEPTACLE OUTLET
- DUPLEX RECEPTACLE OUTLET WITH 2 USB
- DOUBLE-DUPLEX (QUAD) RECEPTACLE OUTLET
- GROUND FAULT PROTECTION RECEPTACLE
- SPECIAL OUTLET (AS NOTED ON PLANS)
- RANGE HOOD CONNECTION
- JUNCTION BOX
- CONTROL RELAY
- LINE VOLTAGE THERMOSTAT, 'C' INDICATES
- MOTOR SWITCH
- SAFETY/DISCONNECT SWITCH; PROVIDE RATINGS AND FUSES AS PER SCHEDULES
- MAGNETIC MOTOR STARTER, FULL VOLTAGE, NON-REVERSING
- EQUIPMENT CONTROL PACKAGE; FURNISHED INTEGRAL TO THE EQUIPMENT
- MOTOR
- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE FIGHTERS KEYBOX
- FIRE ALARM SYSTEM MANUAL PULLSTATION
- SPRINKLER SYSTEM FLOW SWITCH
- SPRINKLER SYSTEM TAMPER SWITCH
- SPRINKLER SYSTEM PRESSURE SWITCH
- FIRE ALARM SYSTEM INPUT MODULE
- FIRE ALARM SYSTEM OUTPUT MODULE
- SOUNDER BASE, LF = LOW FREQUENCY, SS = SINGLE STATION (NON-SYSTEM)

PHOTOELECTRIC SMOKE DETECTOR; SB =

- SMOKE/CARBON MONOXIDE COMBO DETECTOR; SB = SOUNDER BASE, LF = LOW FREQUENCY, SS = SINGLE STATION (NON-SYSTEM)
- FIRE ALARM SYSTEM HORN/STROBE WITH CANDELA RATING INDICATED
- FIRE ALARM SYSTEM STROBE VISUAL SIGNAL WITH CANDELA RATING INDICATED
- FIRE ALARM STROBE VISUAL SIGNAL, CEILING MOUNTED, SS = SINGLE STATION (NON-SYSTEM)
- DATA (LAN) DEVICE OUTLET, NUMBER INDICATES NUMBER OF CABLES; 1V1D = ONE
- VOICE, ONE DATA JACK/CABLE CATV (CABLE TELEVISION) DEVICE OUTLET
- CEILING MOUNTED DATA (LAN) WIRELESS ACCESS POINT, NUMBER INDICATES NUMBER
- ELEVATOR COMMUNICATIONS MASTER ANNUNCIATOR CONTROL PANEL
- ELEVATOR COMMUNICATIONS CALL STATION
- SECURITY CAMERA LOCATION, CEILING MOUNTED, UON
- ACCESS CONTROL SYSTEM CARD READER
- MONITOR POINT ACCESS POINT

ELECTRICAL ABBREVIATIONS:

OVERHEAD ELECTRICAL LINES AFF, AFG, AFR ABOVE FINISH FLOOR, GRADE, ROOF NIGHT LIGHTING LUMINAIRE, CONNECTED TO UNSWITCHED PORTION OF LIGHTING CIRCUIT WEATHERPROOF WITH COVER "CLOSED" FOR RECEPTACLES; NEMA 3R FOR ENCLOSURES WET LOCATION WITH COVER "OPEN" FOR

- RECEPTACLES; NEMA 4 FOR ENCLOSURES ABOVE COUNTER CEILING MOUNTED
- WALL MOUNTED **TYPICAL**
- NOT TO SCALE
- UNLESS OTHERWISE NOTED EXISTING, TO REMAIN
- REMOVE EXISTING
- REMOVE, RELOCATE
- RELOCATED
- MECHANICAL EQUIPMENT CONNECTION
- BUILDING EQUIPMENT CONNECTION

GENERAL NOTES:

THESE GENERAL NOTES APPLY TO ALL ELECTRICAL PLAN DRAWINGS.

- 1. FOLLOW ALL APPLICABLE CODES AND USE GOOD ELECTRICAL CONSTRUCTION PRACTICES WHEN DETERMINING TYPES O WIRING METHODS AND SIZING OF CONDUCTORS AND CONDUIT. INSTALL ALL POWER, CONTROL AND SIGNAL WIRING USING METHODS AS FOLLOWS:
- 1.1. UNDERGROUND ELECTRIC SERVICE WIRING: INDIVIDUAL CONDUCTORS IN GALVANIZED STEEL RIGID METALLIC CONDUIT (RMC) AS PER THE REQUIREMENTS OF LIBERTY
- 1.2. UNDERGROUND WIRING OR BENEATH CONCRETE SLAB (NOT ELECTRICAL SERVICE WIRING): INDIVIDUAL CONDUCTORS IN SCHEDULE 40 PVC RIGID NON-METALLIC CONDUIT (RNC) FOR DIRECT BURIAL TRANSITION TO GALVANIZED STEEL RIGID METALLIC CONDUIT (RMC) WHERE CONDUIT RISES TO BE EXPOSED ABOVE GRADE OR CONCRETE SLAB, FROM A MINIMUM OF 24" BELOW FINISHED GRADE.
- 1.3. UNDERGROUND WIRING OR BENEATH ROAD WAY OR PARKING AREA: INDIVIDUAL CONDUCTORS IN SCHEDULE 80 PVC RIGID NON-METALLIC CONDUIT (RNC) FOR DIRECT BURIAL: TRANSITION TO GALVANIZED STEEL RIGID METALLIC CONDUIT (RMC) WHERE CONDUIT RISES TO BE EXPOSED ABOVE GRADE OR CONCRETE SLAB, FROM A MINIMUM OF 24" BELOW FINISHED GRADE.
- 1.4. EXPOSED. EXTERIOR LOCATIONS: INDIVIDUAL CONDUCTORS IN GALVANIZED STEEL, RIGID METALLIC CONDUIT (RMC); FINAL CONNECTIONS TO MOTORIZED (VIBRATING) EQUIPMENT SHALL BE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LFMC), MAXIMUM 6' LENGTH
- 1.5. WIRING CONCEALED IN INACCESSIBLE WALLS AND CEILINGS: MULTI-CONDUCTOR TYPE NM (NON-METALLIC SHEATHED) AND TYPE SE (SERVICE ENTRANCE) CABLE.
- 1.6. CONCEALED WIRING ABOVE ACCESSIBLE CEILINGS: MULTI-CONDUCTOR TYPE NM (NON-METALLIC SHEATHED) AND TYPE SE (SERVICE ENTRANCE) CABLE.

1.7. EXPOSED BRANCH CIRCUITS (MECHANICAL ROOM, UTILITY

- SPACES): INDIVIDUAL CONDUCTORS IN ELECTRICAL METALLIC TUBING (EMT) WITH SET SCREW FITTINGS; FINAL CONNECTIONS TO MOTORIZED (VIBRATING) EQUIPMENT SHALL BE FLEXIBLE METALLIC CONDUIT (FMC), MAXIMUM 6' LENGTH
- 1.8. CONTRACTOR SHALL CONSULT WITH ENGINEER REGARDING QUESTIONS REGARDING WIRING METHODS PRIOR TO ROUGH-IN OF WIRING

2. MINIMUM CONDUCTOR SIZE SHALL BE 12 AWG. PROVIDE AN

INSULATED GROUND CONDUCTOR WITHIN ALL CABLES AND

RACEWAYS. ALL CONDUCTORS SHALL BE COPPER, UNLESS

OTHERWISE NOTED 3. CIRCUITS SHALL BE 20A1P, (2#12, 1#12G) 1/2"C. OR

CABLE, UNLESS INDICATED OTHERWISE.

- 4. ALL WIRING SHALL BE ROUTED CONCEALED AND DEVICES SHALL BE FLUSH/RECESSED MOUNTED TO THE GREATEST EXTENT POSSIBLE. WIRING IN THE UTILITY SPACES SHALL BE PERMITTED TO BE EXPOSED WHERE NO WALL FINISH EXISTS. WIRING ROUTED EXPOSED ON VERTICAL SURFACES SHALL BE ROUTED VERTICALLY; HORIZONTAL WIRING SHALL BE ROUTED AT THE CEILING LEVEL OF THESE SPACES, NOT ON THE WALLS.
- 5. MOUNT LIGHTING CONTROL SWITCHES 48" ABOVE FINISHED FLOOR, WITHIN 6" OF THE LATCH SIDE OF THE DOOR, UNLESS OTHERWISE INDICATED. "AC" INDICATES MOUNTING 8" ABOVE COUNTER BACK SPLASH, APPROXIMATELY 44" ABOVE FINISHED FLOOR.
- 6. EXIT SIGN LUMINAIRES SHALL BE CONNECTED TO THE LIFE SAFETY LIGHTING CIRCUIT SERVING THE AREA, AHEAD OF ANY SWITCHING OR AUTOMATIC CONTROLS.
- 7. ALL LIGHTING LAYOUTS SHALL BE COORDINATED WITH ARCHITECT'S REFLECTED CEILING PLANS AND EXACT LOCATION OF LUMINAIRES SHALL BE CHECKED AT CONSTRUCTION TIME AND PRIOR TO INSTALLATION WITH OTHER TRADE'S LATEST DRAWINGS AND EQUIPMENT LAYOUTS. COORDINATE LUMINAIRE TRIMS AND MOUNTING WITH CEILING CONSTRUCTION. FINAL LOCATION OF LUMINAIRES SHALL BE REASONABLY CONDUCIVE TO ACCESS BY THE OWNER FOR ROUTINE MAINTENANCE.
- 8. MOUNT RECEPTACLE DEVICES 18" ABOVE FINISHED FLOOR, FINISHED FLOOR.
- 8.1. ALL RECEPTACLES SHALL BE TAMPER PROOF STYLE. 8.1. ENSURE RECEPTACLE PLACEMENT MEETS ALL DWELLING UNIT CODE REQUIREMENTS, INCLUDING MAXIMUM 12' ON CENTER SPACING
- 8.2. RECEPTACLE (GENERALLY DEVICES) PLACEMENT ON
- 9. PROVIDE MEMBRANE PROTECTION FOR ALL DEVICE BOXES

BASEBOARD HEAT.

- 9.1. BASIS OF DESIGN PRODUCT IS 3M FIRE BARRIER MOLDABLE PUTTY PADS MPP+. PROVIDE A SUBMITTAL PRODUCT INFORMATION FOR REVIEW AND APPROVAL.
- BOXES, ETC.
- 11. SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS TO MAINTAIN A MINIMUM 3'-0" SEPARATION FROM ANY HVAC DIFFUSER OR PADDLE FAN.
- 12. WHERE MECHANICAL EQUIPMENT IS INDICATED ON PLAN WITHOUT LOCAL DISCONNECT, EITHER IT IS FURNISHED WITH THE EQUIPMENT OR IS INDICATED IN THE EQUIPMENT WIRING DIAGRAM AND EQUIPMENT SCHEDULE. REFER TO MECHANICAL EQUIPMENT SCHEDULE AND WIRING DIAGRAMS FOR CONNECTIONS TO CONTROL DEVICES.

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UNLESS OTHERWISE NOTED. MOUNT RECEPTACLE DEVICES SUCH THAT THEY ARE ORIENTED SO THE GROUND IS IN THE "UP" POSITION. "AC" INDICATES MOUNTING 8" OVER COUNTER BACK SPLASH, APPROXIMATELY 44" ABOVE

- WALLS COMMON BETWEEN DORM ROOMS SHALL BE LOCATED IN SEPARATE WALL CAVITY FROM THE NEIGHBORING ROOM. 8.3. DO NOT LOCATE ANY RECEPTACLES ABOVE ELECTRIC
- PENETRATING FIRE RATED WALLS.
- 10. AIR AND VAPOR TIGHT BOXES SHALL BE USED AT EXTERIOR WALLS AND CEILINGS, BELOW ATTIC SPACES, AND ADJACENT TO UNCONDITIONED SPACES. THIS INCLUDES ALL ELECTRICAL BOXES, CABLE BOXES, FIRE SAFETY SYSTEM

KILTON/WELCH

DORMITORIES

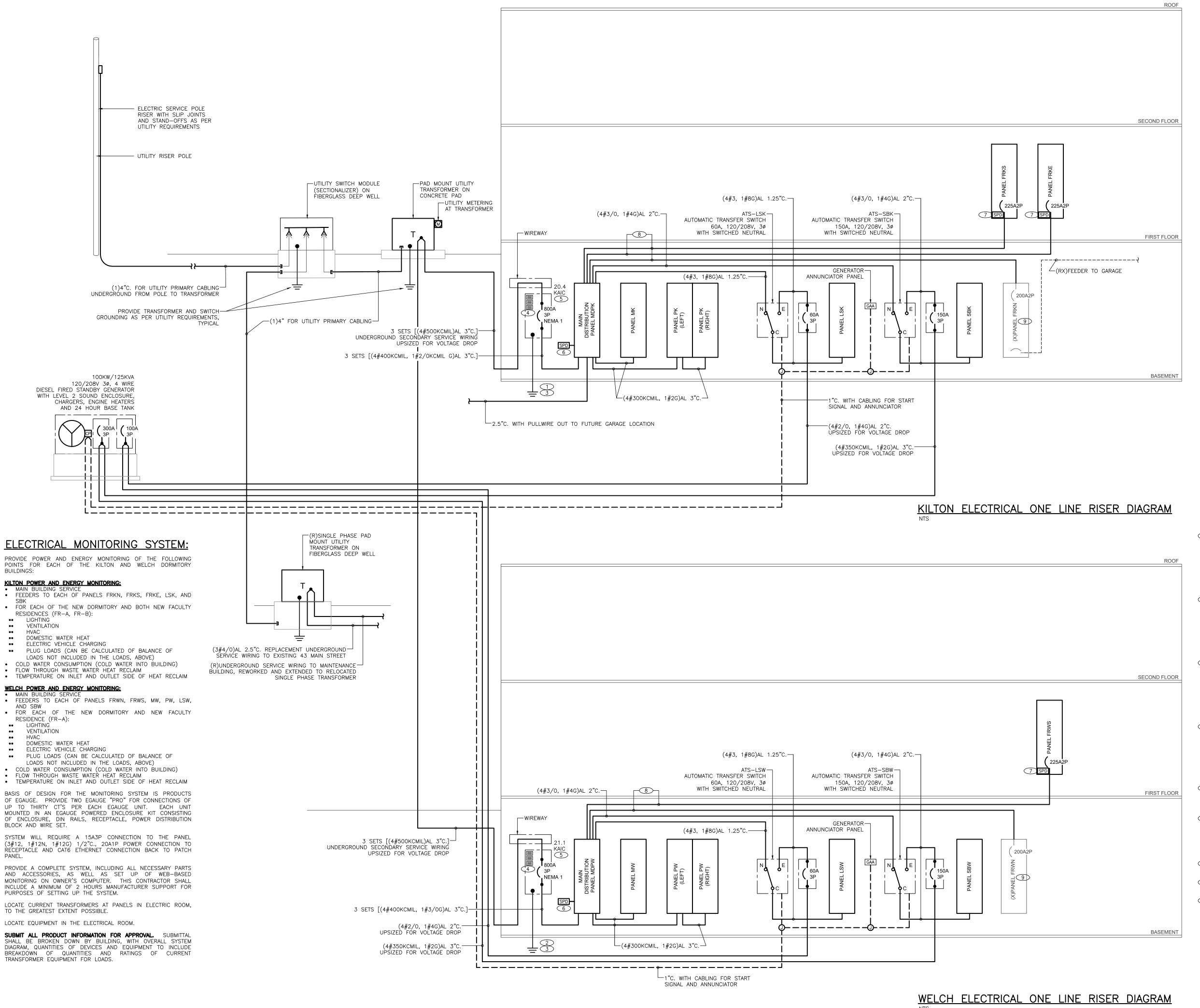
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ELECTRICAL NOTES, LEGEND, **DETAILS**

ELECTRICAL ALTERNATES

REFER TO SPECIFICATION SECTION 26 0010, ELECTRICAL GENERAL PROVISIONS, FOR ALTERNATES THAT AFFECT THE ELECTRICAL WORK INDICATED ON THESE DOCUMENTS.



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

- 1. REFER TO THE LIBERTY UTILITIES (LU) SPECIFICATIONS FOR <u>ELECTIRCAL</u> <u>INSTALLATIONS</u> <u>2019</u> (ELECTRICAL SERVICE BULLETIN No. 750, JANUARY 2019) AS WELL AS THE <u>UNDERGROUND</u> <u>COMMERCIAL</u> <u>DISTRIBUTION</u> INSTALLATION AND RESPONSIBILITY GUIDE (ELECTRICAL SERVICE BULLETIN 759B OCTOBER 2018)
- 1.1. REFER TO THESE DOCUMENTS FOR MATERIALS REQUIREMENTS, DIRECTION FROM THE ELECTRIC POWER UTILITY AND STANDARD INSTALLATION DETAILS, INCLUDING,
- BUT NOT LIMITED TO, THE FOLLOWING:
- 1.1.1. CONCRETE PAD FOR TRANSFORMER, CLEARANCES, CONSTRUCTION AND GROUNDING SECONDARY SERVICE DUCTBANK ARRANGEMENT,
- SPACING AND CLEARANCES CONCRETE ENCASEMENT REQUIREMENTS 1.1.4. BOLLARD REQUIREMENTS
- 1.1.5. METERING REQUIREMENTS

2. ELECTRIC SERVICE INSTALLATION RESPONSIBILITIES:

- 2.1. THIS DESCRIPTION OF RESPONSIBILITIES IS TENTATIVE, FOR DESIGN PURPOSES. ACTUAL ASSIGNMENT OF RESPONSIBILITIES WILL BE BY THE CONSTRUCTION MANAGER. VERIFY RESPONSIBILITIES PRIOR TO BIDDING.
- 2.2. LIBERTY UTILITIES RESPONSIBILITIES:
- 2.2.1. 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
- 2.2. ELECTRICAL CONTRACTOR RESPONSIBILITIES:
- 2.2.1. COORDINATION BETWEEN LIBERTY UTILITIES, THE
- GENERAL CONTRACTOR, THE SITE CONTRACTOR AND 2.2.2. PROVIDING PRIMARY LINE EXTENSION RACEWAY FROM POLE TO THE TRANSFOMRER, AS PER L-U REQUIREMENTS, INCLUDING POLE RISER MATERIALS.
- SUPPLY A PRE-CAST TRANSFORMER PAD 2.2.4. 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 2.2.6. PRIMARY WIRING SWEEP OUT OF TRANSFORMER FOR
- 2.2.7. PROVIDE CT METERING CABINET, METER SOCKET AND 1.25" CONDUIT BETWEEN THE TWO ENCLOSURES

8.2. SITE CONTRACTOR RESPONSIBILITIES:

- TRENCHING AND BACKFILL FOR THE UNDERGROUND PRIMARY LINE EXTENSTION AND ELECTRICAL SECONDARY SERVICE DUCTBANKS AS WELL AS FOR
- HE TRANSFORMER PAD 8.2.2. 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.

1 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.
- 2 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
- 3 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 ENCASEMENT. 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)).
- 4 PROVIDE ENGRAVED LABELS:
- 1. 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
- 2. CONDUCTOR COLOR IDENTIFICATION LEGEND . PHASE ROTATION
- 5 SHORT CIRCUIT CURRENT IS CALCULATED BASED UPON INFINITE AVAILABLE UTILITY SHORT CIRCUIT CURRENT, MOTOR CONTRIBUTIONS, ESTIMATED 500KVA UTILITY TRANSFORMER WITH 2.0% IMPEDANCE.
- 6 PROVIDE A SURGE PROTECTIVE DEVICE. CONNECT TO A 40A3P CIRCUIT BREAKER; WIRING SHALL BE (4#8, 1#10G) 3/4"C. 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.
- 7 PROVIDE 22.5KA, MINIMUM, 2 POLE SURGE PROTECTIVE DEVICE INTEGRAL TO UNIT PANEL.
- 8 BASIS OF DESIGN FOR SE(AL) CABLE IS SOUTHWIRE, 250-250-250-3/0 RATED 225 AMP FOR DWELLING.
- 9 PROVIDE NEW FEEDER FROM PANEL MDP TO SERVE EXISTING FACULTY RESIDENCE PANEL. DISCONNECT EXISTING GROUND ELECTRODE CONDUCTORS AND REMOVE BACK TO ELECTRODES; UTILIZE GROUND CONNECTION THROUGH NEW FEEDER.

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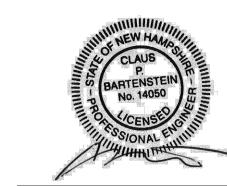
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WATER ENTRANCE IF SEPARATE FROM DOMESTIC WATER.



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KILTON/WELCH **DORMITORIES**

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ELECTRICAL ONE LINE DIAGRAM

	AUTOMATIO	C LIGHTING CO	ONTROL DEVIC	E SCHEDULE	
SYMBOL	TYPE/DESCRIPTION	VOLTS/WATTS/AMPS	MANUFACTURER	SERIES/CATALOG NO.	COVERAGE/PATTERN
PIR	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
DΤ	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
→ △	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
\$ _{PIR}	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
\$ _D T	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
DS	0-10VDC DIMMING DAYLIGHT SENSOR CONTROL	120VAC 12-24 VAC/VDC	SENSOR SWITCH	CMR-ADC CM-ADC	

AUTOMATIC LIGHTING CONTROL DEVICE SCHEDULE GENERAL NOTES:

1 INSTALL OCCUPANCY SENSOR CONTROL DEVICES AND ALL ACCESS

1. 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.).

1.1. SENSOR LOCATIONS INDICATED ON PLAN ARE APPROXIMATE; PROVIDE QUANTITIES NECESSARY AND LOCATE SENSORS AS PER THE MANUFACTURER'S APPROXIMATE.

THE MANUFACTURER'S APPROVED SHOP DRAWINGS.

1.2. 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.

2. INDICATE FINAL LOCATIONS OF SENSORS AND ASSOCIATED DEVICES (SWITCHES, POWER PACKS/POWER SUPPLY MODULES) ON

AS-BUILT DOCUMENTS.

3. DUAL TECHNOLOGY SENSORS SHALL EMPLOY A COMBINATION OF PASSIVE—INFRARED AND EITHER ULTRASONIC OR MIRCRO-PHONIC TECHNOLOGY TO SENSE THE PRESENCE OF OCCUPANTS IN A SPACE.

4. PROVIDE SENSOR FOR SURFACE OR RECESSED MOUNTING AS APPROPRIATE.

5. REFER TO AUTOMATIC LIGHTING CONTROLS PERFORMANCE SPECIFICATION FOR ADDITIONAL INFORMATION.

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 750 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 1,690 LUMEN 50,000 HRS LM70 90 CRI 3,000K CCT
В	2' VANITY LUMINAIRE, NICKEL TONE FORMED STEEL HOUSING, WHITE ACRYLIC DIFFUSER.		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 L108W 1220-277V 3000K H05 FB00 MIA	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 ©	24" ROUND x 6"H 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 × 2.5"D × X' (LENGTHS IDENTIFIED ON PLAN DRAWING)		MARK ARCHITECTURAL LIGHTING	S2WID LLP 80CRI 30K 300LMF I80CRI I30K I300LMF 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.	REFER TO NOTE ON PLAN DRAWINGS	DIODE LED	24V-BLBSC2 DI-CPCHA-SL DI24V-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 SFR7CSS	120/ 277V 35W	LED, INTEGRAL TO LUMINAIRE 4,298 LUMEN 100,000 HRS LM70 >80 CRI 3,000K CCT
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	STREETWORKS UTLD TRADITIONAIRE UTLD 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 LUMINAIRE, WHITE THERMOPLASTIC HOUSING, RED LED LETTERS, WITH FACES AND ARROWS AS INDICATED.		DUAL-LITE	EVC	120V 3W	LED; PROVIDED INTEGRAL TO LUMINAIRE
4	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	[2]	DUAL-LITE OR APPROVED EQUAL	EV4	120V 2W	LED LAMP HEADS PROVIDED INTEGRA TO LUMINAIRE

LUMINAIRE SCHEDULE

LUMINAIRE SCHEDULE KEYED NOTES:

- U1 WHERE LUMINAIRE IS MOUNTED ABOVE THE VANITY, CENTER ON VANITY, 6" ABOVE TOP OF MIRROR.
- 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.
- 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
- 1.3. MANUAL SWITCHES: OVER-RIDE AUTOMATIC CONTROLS TO SWITCH ALL LUMINAIRES BEING CONTROLLED, OFF.
- 1.4. 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.
- 2. AUTOMATIC LIGHTING CONTROL EQUIPMENT SHALL BE PRODUCTS OF ONE MANUFACTURER.
- 3. WHERE MANUAL DIMMING SWITCHES ARE INDICATED TO BE PROVIDED, COORDINATE DIMMING TYPE (STANDARD, 0-10VDC, ETC.) WITH LUMINAIRES BEING CONTROLLED TO ENSURE COMPATIBILITY.
- 3.1. 0-10VDC WIRING SHALL BE 300V RATED 18-2. MAINTAIN CONSISTENT VIOLET (+) AND PINK (-) COLOR CODING THROUGHOUT ALL 0-10VDC DIMMING CONTROL WIRING.
- 4. 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.
- 4.1. 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
- 5. EXTERIOR LIGHTING SHALL BE CONTROLLED BY LOCAL SWITCHES WITH PHOTOCELL OVERRIDE, OFF, UNLESS OTHERWISE NOTED.
- 6. PROVIDE UL924 RELAYS AS NECESSARY FOR OVERRIDING AUTOMATIC LIGHTING CONTROLS TO BRING ALL EMERGENCY (LIFE SAFETY) LUMINAIRES ON, AT FULL BRIGHTNESS.
- 6.1. 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.
 6.2. UPON LOSS OF NORMAL UTILITY POWER OR WHEN FIRE ALARM
- GOES INTO ALARM, UL924 RELAY SHALL PROVIDE OVERRIDE OF AUTOMATIC CONTROLS.

 6.3. SUBMIT PRODUCT FOR REVIEW AND APPROVAL.
- 7. 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.
- 8. 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
- 9. CONTRACTOR SHALL PROVIDE ALL NECESSARY PROGRAMMING AND ADJUSTMENTS OF THE LIGHTING CONTROL SYSTEM TO ENSURE OPERATION IS TO OWNER'S SATISFACTION.

TECHNICIAN.



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revisions:

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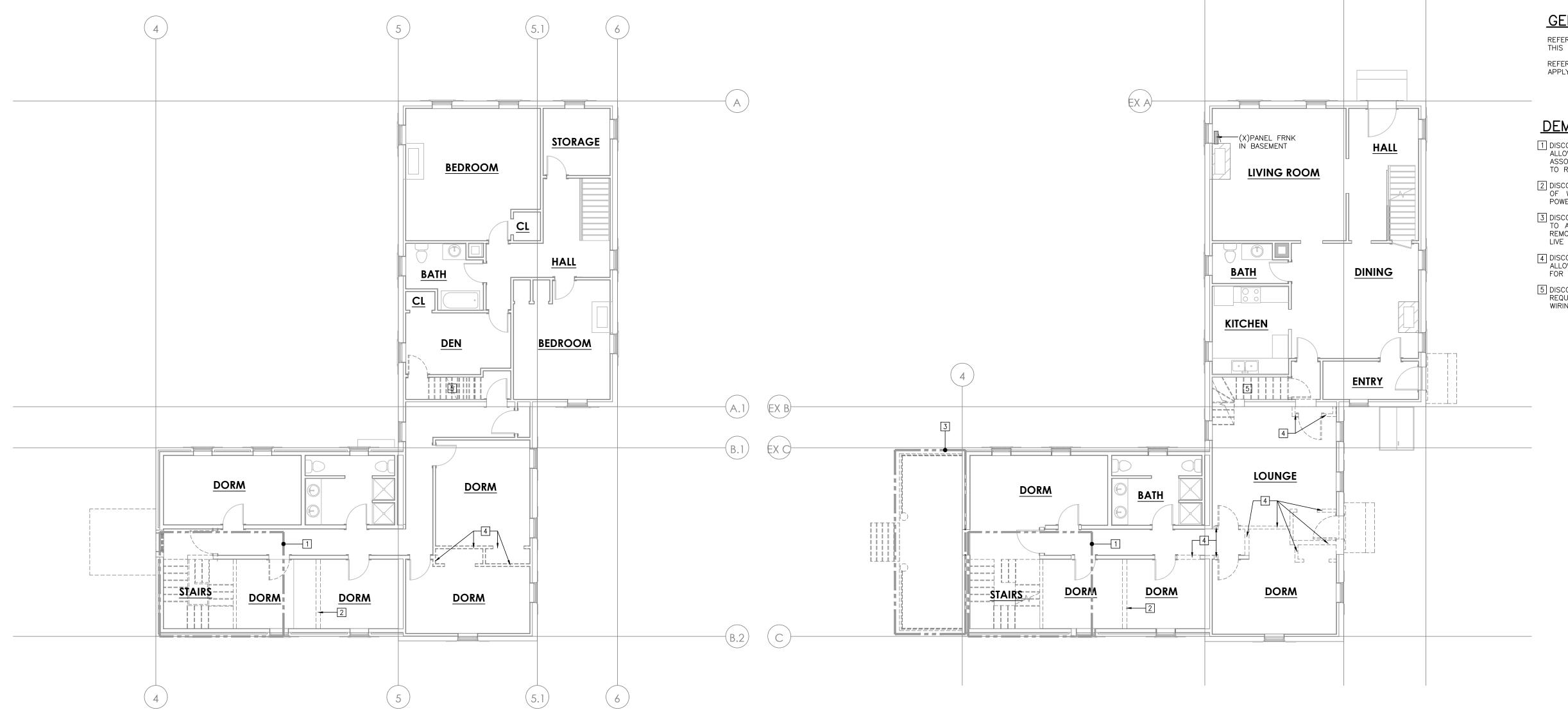
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KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

ELECTRICAL LUMINAIRE SCHEDULE

FZ



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

GENERAL NOTES:

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

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.

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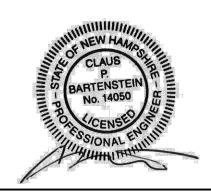
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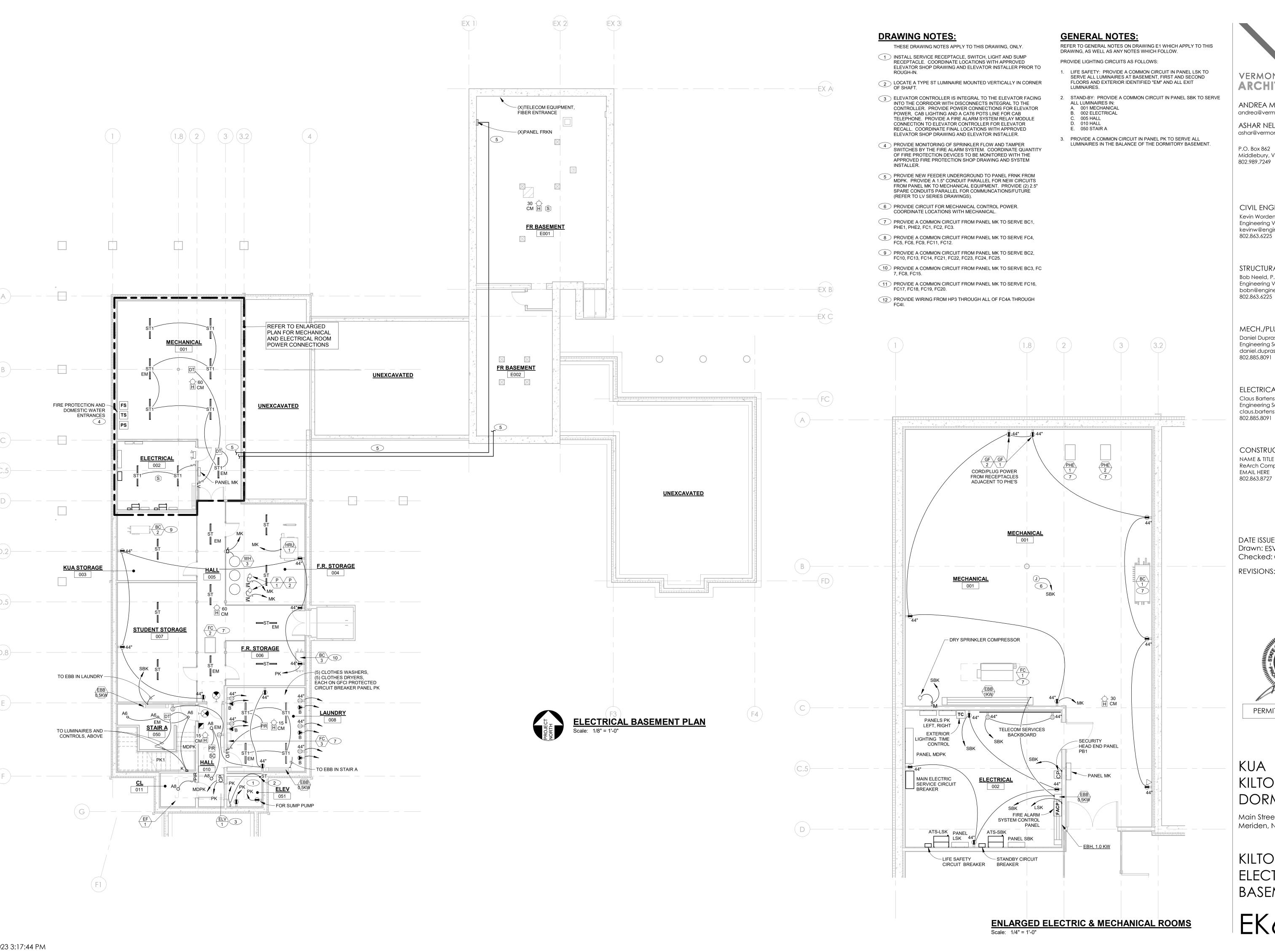
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KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

ELECTRICAL DEMOLITION

IEK5



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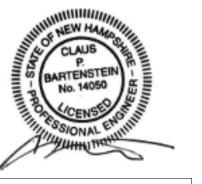
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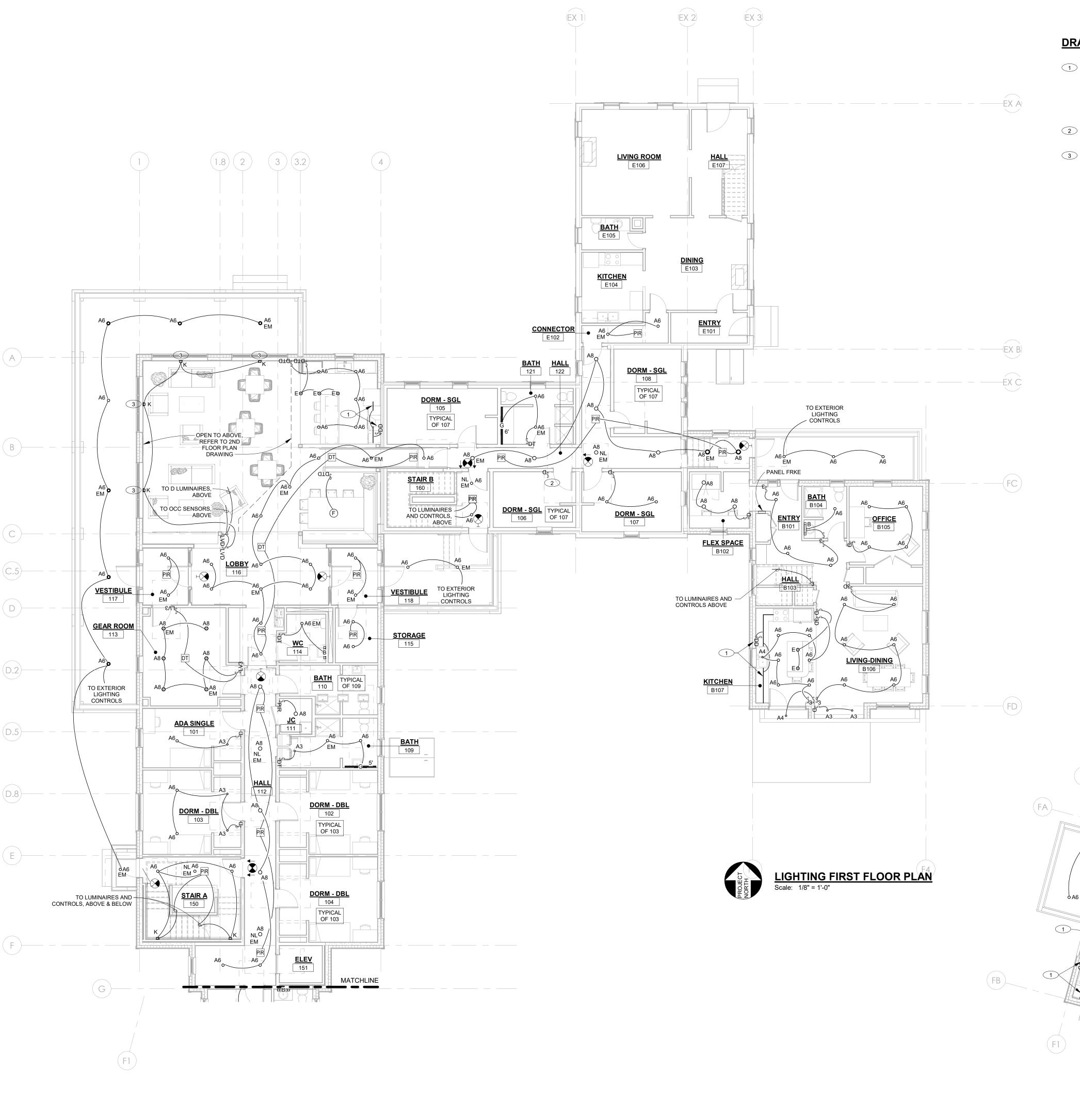
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KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

KILTON ELECTRICAL **BASEMENT**

EK6



DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 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
- BASE BID, PROVIDE NEW SWITCH FOR EXISTING DORM ROOM LIGHTING TO ACCOMODATE WALL WORK. REWORK AND EXTEND SWITCHLEG WIRING TO NEW SWITCH, AS NECESSARY.
- 3 CENTER LUMINARE IN-BETWEEN THE UPPER AND LOWER

GENERAL NOTES:

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

1. LIFE SAFETY: PROVIDE A COMMON CIRCUIT IN PANEL LSK TO

PROVIDE LIGHTING CIRCUITS AS FOLLOWS:

- SERVE ALL LUMINAIRES AT BASEMENT, FIRST AND SECOND FLOORS AND EXTERIOR IDENTIFIED "EM" AND ALL EXIT
- 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
- 109 BATH 110 BATH 114 WATER CLOSET
- G. 116 LOBBY H. 117 VESTIBULE 118 VESTIBULE
- J. 119 LOUNGE K. 122 HALL

MATCHLINE

TO LUMINAIRES
AND CONTROLS AT
SECOND FLOOR

BEDROOM

- L. E102 CONNECTOR M. 150 STAIR A N. 160 STAIR B
- PROVIDE A COMMON CIRCUIT IN PANEL PK TO SERVE ALL LUMINAIRES IN THE BALANCE OF THE DORMITORY FIRST FLOOR.

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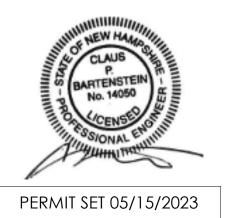
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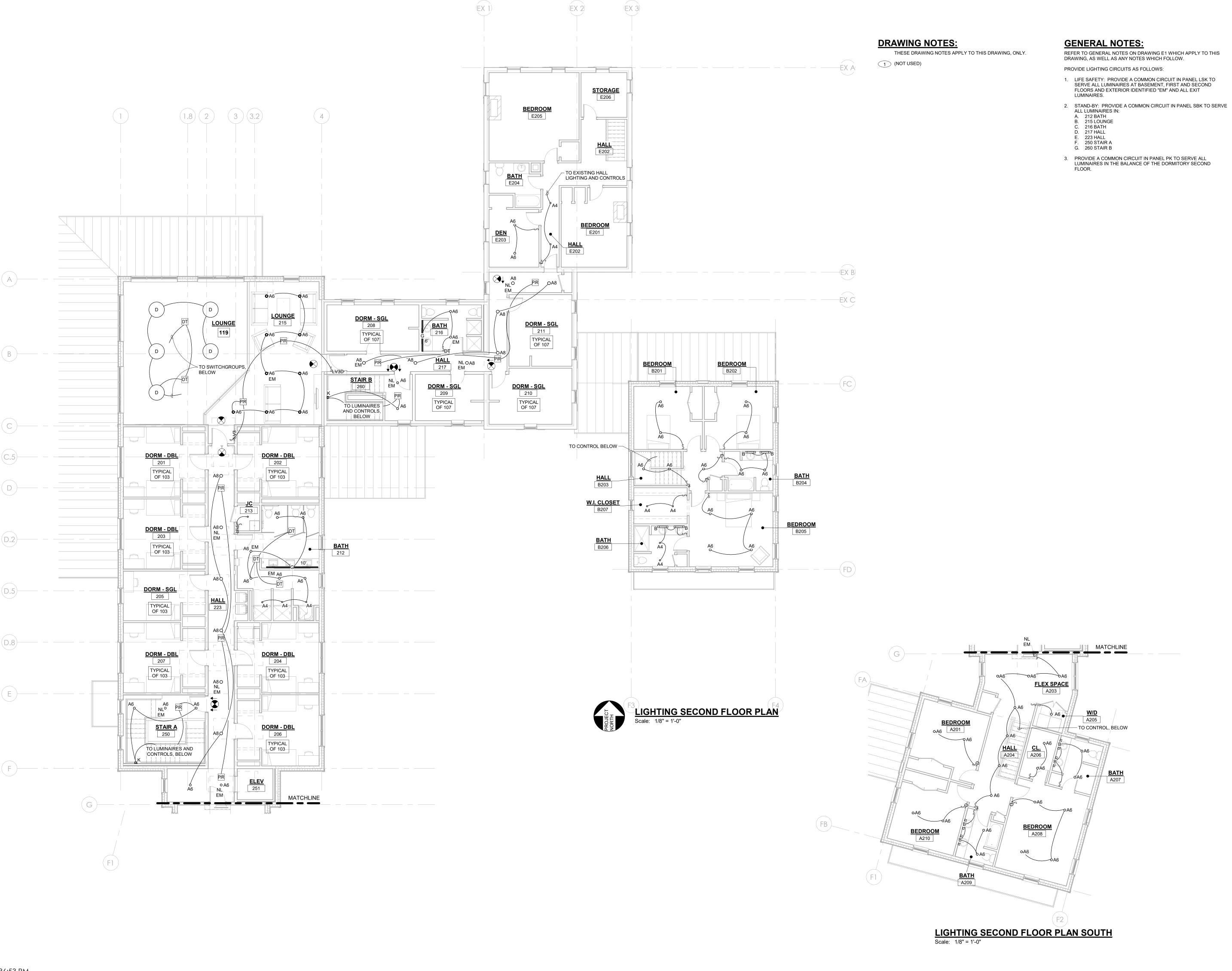
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KILTON LIGHTING FIRST FLOOR

EK7

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

LIVING ROOM





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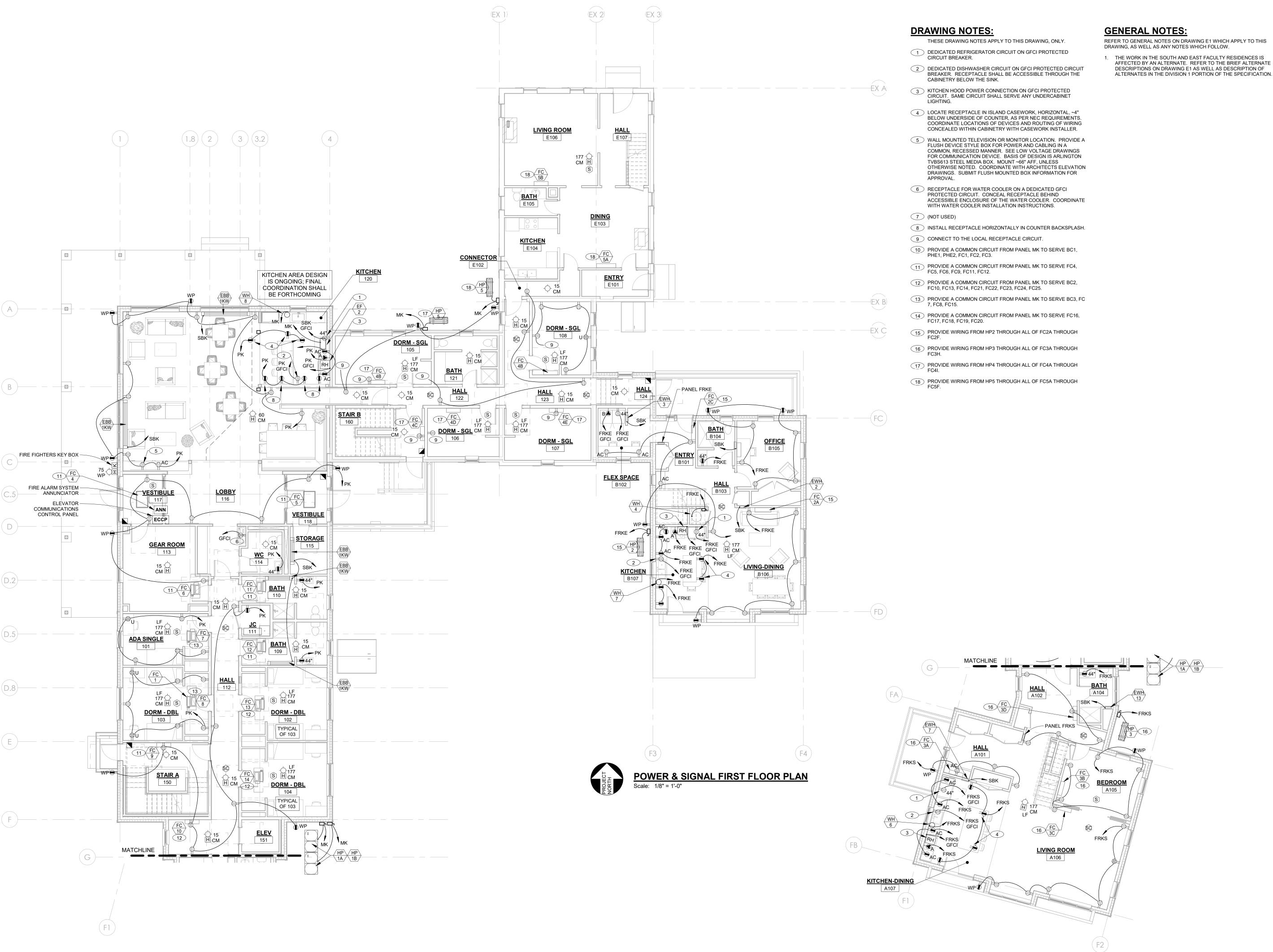


KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

KILTON LIGHTING SECOND FLOOR

EK8



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KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

KILTON POWER & SIGNAL FIRST FLOOR

EK9

POWER & SIGNAL FIRST FLOOR PLAN SOUTH

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

TYPE : SQUARE D QO LOAD C DIMENSIONS : 14.25"W x 3.75"D x 38"H MOUNTING : RECESSED PANEL FEED : BOTTOM	ENTER		-			FRKS ASE PAN	_		MAIN A.I.C	TAGE : 120/208V, 1Ø, 3W IS : 225A MCB . RATING : 10,000 S SIZE : SEE ONE LINE DIAGRAM
	ONNECTE	,	,		PHA:				D LOAD (\	•
DESCRIPTION	A	В	BKR	_	A	В	BKR	A	В	DESCRIPTION
LIGHTING	830		A 20/1	1	•	2	-		3750	HP3, FC3A THRU FC3G - HEAT PUMP, FAN COILS
SPARE		-	A 20/1	3		• 4		3750		FACULTY RESIDENCE A
RCPT - ELECTRIC RANGE	4160		50/2	5	•	6	15/1	400		HRU3 - HEAT RECOVERY UNIT
		4160		7		• 8	LO 20/2		1000	HRU3 - ELECTRIC HEATING COIL
RH - RANGE HOOD, U.C. LIGHTING	250		AG 20/1	9	•	10		1000		
DISHWASHER		1000	G 20/1	11		• 12	30/2		2250	WH5 - ELECT WATER HEATER
RCPT - REFRIGERATOR	700		AG 20/1	13	•	14		2250		
RCPT - APPLIANCE		1500	A 20/1	15		• 16	LO 20/1		1650	WH6 - ELECTRIC WATER HEATER
RCPT - APPLIANCE	1500		A 20/1	17	•	18	G 30/2	2500		RCPT - ELECTRIC CLOTHES DRYER
SPARE		•	AG 20/1	19		• 20			2500	
RCPT - KITCHEN A107, ISLAND	720		A 20/1	21	•	22	AG 20/1	1200		RCPT - CLOTHES WASHER
RCPT - LIVING ROOM A106, EXTERIOR		1440	A 20/1	23		• 24	A 20/1		1260	RCPT - FLEX SPACE A203, HALL A204
RCPT - STUDY A105	1080		A 20/1	25	•	26	A 20/1	1080		RCPT - BEDROOM A201
RCPT - HALL A101, EXTERIOR		720	A 20/1	27		• 28	A 20/1		1260	RCPT - BEDROOM A208
RCPT - FLEX SPACE A103	900		A 20/1	29	•	30	A 20/1	1080		RCPT - BEDROOM A210
RCPT - BATH A104		180	A 20/1	31		• 32	A 20/1		360	RCPT - BATH A207
SPARE	-		A 20/1	33	•	34	A 20/1	360		RCPT - BATH A209
SPARE		-	20/1	35		• 36	20/1		-	SPARE
SPARE	-		20/1	37	•	38	20/1	-		SPARE
SPARE		-	20/1	39		• 40	20/1		-	SPARE
SPARE	-		20/1	41	•	42	20/1	-		SPARE
TOTALS:	9980	8840						12870	14030	

DIMENSIONS: 14.25"W x 3.75"D x 38"H MOUNTING: RECESSED PANEL FEED: BOTTOM						FRKE SE PANI				IS : 225A MCB . RATING : 10,000 S SIZE : SEE ONE LINE DIAGRAM
	ONNECTE	`	,		PHA				D LOAD (\	•
DESCRIPTION	Α	В	BKR		Α	В	BKR	A	В	DESCRIPTION
LIGHTING	730		A 20/1	1	•	2	40/2		3750	HP2, FC2A THRU FC2F - HEAT PUMP, FAN COILS
SPARE		-	A 20/1	3		• 4		3750		FACULTY RESIDENCE B
RCPT - ELECTRIC RANGE	4000		50/2	5	•	6	15/1	400		HRU2 - HEAT RECOVERY UNIT
		4000		7		• 8	LO 20/2		1000	HRU2 - ELECTRIC HEATING COIL
RH - RANGE HOOD, U.C. LIGHTING	250		AG 20/1	9	•	10		1000		
DISHWASHER		1000	G 20/1	11		• 12	30/2		2250	WH4 - ELECT WATER HEATER
RCPT - REFRIGERATOR	700		AG 20/1	13	•	14		2250		
RCPT - APPLIANCE		1500	A 20/1	15		• 16	LO 20/1		1650	WH7 - ELECTRIC WATER HEATER
RCPT - APPLIANCE	1500		A 20/1	17	•	18	G 30/2	2500		RCPT - ELECTRIC CLOTHES DRYER
SPARE		-	AG 20/1	19		• 20			2500	
RCPT - KITCHEN B107, ISLAND	360		A 20/1	21	•	22	AG 20/1	1200		RCPT - CLOTHES WASHER
RCPT - LIVING ROOM B106, EXTERIOR		1260	A 20/1	23		• 24	A 20/1		1260	RCPT - FLEX SPACE A203, HALL A204
RCPT - OFFICE B105, EXTERIOR	1260		A 20/1	25	•	26	A 20/1	1080		RCPT - BEDROOM B201
RCPT - ENTRY B101, B102, B103, EXT		1080	A 20/1	27		• 28	A 20/1		900	RCPT - BEDROOM B202
SPARE	-		A 20/1	29	•	30	A 20/1	1260		RCPT - BEDROOM B205
RCPT - BATH B104		180	A 20/1	31		• 32	A 20/1		360	RCPT - BATH A204
SPARE	-		A 20/1	33	•	34	A 20/1	360		RCPT - BATH A206
SPARE		-	20/1	35		• 36	20/1		-	SPARE
SPARE	-		20/1	37	•	38	20/1	-		SPARE
SPARE		_	20/1	39		• 40	20/1		-	SPARE
SPARE	-		20/1	41	•	42	20/1	-		SPARE
TOTALS:	8800	9020						13050	13670	

TYPE : SQUARE D NQ DIMENSIONS : 20"W x 5.75"D x MOUNTING : SURFACE PANEL FEED : BOTTOM						EL SBK HASE PANE			MAIN A.I.C	IS . RATING	: 120/208V, 3Ø, 4W : 225A MLO : 10,000 : SEE ONE LINE DIAGRAM
	CONNE	CTED LO	AD (VA)		Pi	HASE		CONNE	CTED LO	AD (VA)	
DESCRIPTION	Α	В	C	BKR	Α	ВС	BKR	Α	В	C	DESCRIPTION
LTG - BASEMENT	390			A 20/1	1 •	2	20/1 A	720			RCPT - AT SERVICE ENTRANC
LTG - FIRST FLOOR		1380		A 20/1	3	• 4	20/1 A		360		RCPT - TELECOM BACKBOARD
LTG - SECOND FLOOR			490	A 20/1	5	• 6	20/1			1500	EWH10 - FR-B
EWH4 - DORM 2ND FLOOR	1000			LO 20/2	7 •	8	20/1	1500			EWH11 - FR-B
		1000			9	• 10	20/1		1500		EWH12 - FR-B
EBB - DORMITORY SECOND			1000	LO 20/2	11	• 12	20/2 LO			1000	EWH2 - FR-B
FLOOR	1000				13 •	14	1	1000			
EBB - DORMITORY SECOND		1000		LO 20/2	15	• 16	20/2 LO		1000		EWH3 - FR-B
FLOOR			1000		17	• 18	1			1000	
EBB - DORMITORY FIRST	1000			LO 20/2	19 •	20	20/2 LO	1000			EWH5 - FR-B
FLOOR		1000			21	• 22	1		1000		
EBB - DORMITORY FIRST			1500	LO 20/2	23	• 24	20/2 LO			1000	EWH6 - FR-A
FLOOR	1500				25 •	26	1	1000			
EBB - DORMITORY FIRST		1000		LO 20/2	27	• 28	20/2 LO		1000		EWH7 - FR-A
FLOOR			1000		29	• 30	1			1000	
PB1 - SECURITY HEAD END	500			20/1	31 •	32	20/2 LO	1000			EWH8 - FR-A
EBB - DORMITORY BASEMENT		1250		LO 20/2	33	• 34	1		1000		
			1250		35	• 36	20/2 LO			1000	EWH9 - FR-A
EBB - DORMITORY BASEMENT	1000			LO 20/2	37 •	38	1	1000			
		1000			39	• 40	20/1		1500		EWH13 - FR-A
SPARE			-	20/1	41	• 42	20/1			1500	EWH14 - FR-A
SPARE	-			20/1	43 •	44	20/1	-			SPARE
SPARE		-		20/1	45	• 46	20/1		-		SPARE
SPARE			-	20/1	47	• 48	20/1			-	SPARE
SPARE	-			20/1	49 •	50	20/1	-			SPARE
SPARE		-		20/1	51	• 52	20/1		-		SPARE
SPARE			-	20/1	53	• 54	AG 20/1			700	RCPT - KITCH 120 REFRIG.
TOTALS:	6390	7630	6240					7090	7360	8700	

DESCRIPTION	CONNE A	ECTED LO	AD (VA) C	BKR		PHASE A B C		BKR	CONNE A	CTED LO	AD (VA) C	DESCRIPTION
LTG - INTERIOR	1160			A 20/1	1 •	•	2	G 20/1	1200			RCPT - CLOTHES WASHER 008
LTG - EXTERIOR		600		A 20/1	3	•	4	G 20/1		1200		RCPT - CLOTHES WASHER 008
SPARE			-	A 20/1	5	•	6	G 20/1			1200	RCPT - CLOTHES WASHER 008
SPARE	-			A 20/1	7	•	8	G 20/1	1200			RCPT - CLOTHES WASHER 008
SPARE		-		A 20/1	9	•	10	G 20/1		700		RCPT - CLOTHES WASHER 008
RCPT - ELECTRICAL 002			720	20/1	11	•	12	50/2			4160	RCPT - ELECTRIC RANGE
RCPT - MECHANICAL 001	1260			20/1	13 •	•	14		4160			
RCPT - 003, 004, 006, 007, ETC		1080		A 20/1	15	•	16	AG 20/1		300		RH - RANGE HOOD, U.C. LTG
RCPT - LAUNDRY 007, 010, 050			720	A 20/1	17	•	18	G 20/1			1000	DISHWASHER
RCPT - ELEC CLOTHES DRYER	2500			G 30/2	19	•	20	A 20/1	1500			RCPT - APPLIANCE
		2500			21	•	22	A 20/1		1500		RCPT - APPLIANCE
RCPT - ELEC CLOTHES DRYER			2500	G 30/2	23	•	24	A 20/1			540	RCPT - KITCH 120, ISLAND
	2500				25	•	26	A 20/1	1260			RCPT - LOUNGE
RCPT - ELEC CLOTHES DRYER		2500		G 30/2	27	•	28	A 20/1		1080		RCPT - LOUNGE
			2500		29	•	30	A 20/1			1440	RCPT - GEAR, VEST, ETC
RCPT - ELEC CLOTHES DRYER	2500			G 30/2	31	•	32	A 20/1	180			RCPT - WATER CLOSET 114
		2500			33	•	34	G 20/1		500		RCPT - WATER COOLER
RCPT - ELEC CLOTHES DRYER			2500	G 30/2	35	•	36	20/1			300	ELV1 - ELEVATOR CAB POWER
	2500				37	•	38	20/1	20			LTG - ELEV PIT 051
SPARE		-		AG 20/1	39	•	40	20/1		180		RCPT - ELEV PIT 051
SPARE			-	20/1	41	•	42	20/1			180	RCPT - ELEV PIT SUMP PUMP
TOTALS:	12420	9180	8940						8360	4960	8160	

(TYPE : SQUARE D DIMENSIONS : 20"W x 5.75 MOUNTING : SURFACE PANEL FEED : BOTTOM	DIMENSIONS: 20"W x 5.75"D x 38"H MOUNTING: SURFACE PANEL FEED: BOTTOM CONNECTED LO					PANEL PK (RIGHT) THREE PHASE PANEL TED LOAD (VA) PHASE VOLTAGE : 120/208V, 3Ø, 4W MAINS : 225A MLO A.I.C. RATING : 10,000 LUGS SIZE : SEE ONE LINE DIA CONNECTED LOAD (VA)								
RCPT - DORM 102 1620 A 20/1 3 • 4 20/1 1620 RCPT - DORM 202	DESCRIPTION	Α	В	`c ´	BKR		АВ	С	BKR	Α	В	`c ´	DESCRIPTION		
	RCPT - DORM 101	1080			A 20/1	1	•	2	A 20/1	1620			RCPT - DORM 201		
RCPT - DORM 103 1620 A 20/1 5 ● 6 20/1 1620 RCPT - DORM 203	RCPT - DORM 102		1620		A 20/1	3	•	4	20/1		1620		RCPT - DORM 202		
	TOT I DOTTIN TOZ														

RCPT - DORM 101	1080			A 20/1	1 •	2	A 20/1	1620			RCPT - DORM 201
RCPT - DORM 102		1620		A 20/1	3	• 4	20/1		1620		RCPT - DORM 202
RCPT - DORM 103			1620	A 20/1	5	• 6	20/1			1620	RCPT - DORM 203
RCPT - DORM 104	1620			A 20/1	7 •	8	20/1	1620			RCPT - DORM 204
SPARE		-		20/1	9	• 10	20/1		1080		RCPT - DORM 205
SPARE			-	20/1	11	• 12	20/1			1620	RCPT - DORM 206
RCPT - 111, 112, 150, EXT.	1620			A 20/1	13 •	14	20/1	1620			RCPT - DORM 207
RCPT - BATH 109		180		A 20/1	15	• 16	20/1		-		SPARE
RCPT - BATH 110			180	A 20/1	17	• 18	20/1			540	RCPT - BATH 212
SPARE	-			20/1	19 •	20	20/1	1260			RCPT - 213, 223, 250
SPARE		-		20/1	21	• 22	G 20/1		1620		RCPT - LOUNGE 215
SPARE			-	20/1	23	• 24	20/1			-	SPARE
SPARE	-			20/1	25 ●	26	20/1	-			SPARE
SPARE		-		20/1	27	• 28	20/1		-		SPARE
SPARE			-	20/1	29	• 30	20/1			-	SPARE
SPARE	-			20/1	31 •	32	20/1	-			SPARE
GENERATOR RECEPTACLE		180		20/1	33	• 34	20/1		-		SPARE
GENERATOR BATTERY CHARG	E R		1000	20/1	35	• 36	20/1			-	SPARE
GENERATOR ALTERNATOR	750			20/2	37 ●	38	20/1	-			SPARE
HEATER		750			39	• 40	20/1		-		SPARE
GENERATOR OIL HEATER			750	20/1	41	• 42	20/1			-	SPARE
TOTALS:	5070	2730	3550		•			6120	4320	3780	

DIMENSIONS : 20"W x 5.75"D : MOUNTING : SURFACE PANEL FEED : BOTTOM	x 26"H			Т		NEL LS PHASE P				MAINS : 100A MLO A.I.C. RATING : 10,000 LUGS SIZE : SEE ONE LINE DIAGRAM				
	CONNE	CTED LO	AD (VA)			PHASE			CONNE	ECTED LO	AD (VA)			
DESCRIPTION	Α	В	С	BKR		A B C		BKR	Α	В	С	DESCRIPTION		
FIRE ALARM CONTROL PANEL	300			LC 20/1	1	•	2	20/1	-			SPARE		
SPARE		-		20/1	3	•	4	20/1		-		SPARE		
SPARE			-	20/1	5	•	6	20/1 A			750	LTG - LIFE SAFETY (EM)		
SPARE	-			20/1	7	•	8	20/1	-			SPARE		
SPARE		-		20/1	9	•	10	20/1		-		SPARE		
SPARE			-	20/1	11	•	12	20/1			-	SPARE		
SPARE	-			20/1	13	•	14	20/1	-			SPARE		
SPARE		-		20/1	15	•	16	20/1		-		SPARE		
SPARE			-	20/1	17	•	18	20/1			-	SPARE		
TOTALS:	-	-	-						-	-	-			

DIMENSIONS: 42"W x 9.5"D x MOUNTING: SURFACE PANEL FEED: BOTTOM	00 П				PANEL THREE PHA					. RATING	: 1,200A MLO 2 : 22,000 : SEE ONE LINE DIAGRAM
		CTED LO	` '			ASE			CTED LO	` '	
DESCRIPTION	Α	В	С	BKR	A E	3 C	BKR	A	В	С	DESCRIPTION
PREPARED SPACE	-			-/3	1 •	2	-/3	-			SPACE - FUTURE PV CONNECTION,
		-			3	4			-		MAXIMUM 144KW-AC
			-		5	• 6				-	(500A3P CIRCUIT BREAKER)
ENERGY/POWER MONITORING	-			15/3	7 ●	8	-/3	-			PREPARED SPACE
SYSTEM		-			9	10			-		
			-		11	• 12	40/2			3600	EV1 - ELECTRIC VEHICLE
PANEL LSW	300			60/3	13 ●	14		3600			CHARGING STATION
VIA ATS-LSK		0			15	16	40/2		3600		EV1 - ELECTRIC VEHICLE
			750		17	• 18				3600	CHARGING STATION
PANEL SBW	14520			150/3	19 •	20	225/2	22810			PANEL FRKE
VIA ATS-SBK		14520			21	22			22810		
			14520		23	• 24	200/2			10000	(X)PANEL FRKN
PANEL MK	22610			225/3	25 •	26		10000 EST		EST	
		22610			27	28	225/2		23400		PANEL FRKS
			22610		29	• 30	\bigcirc			23400	
ELV1 - ELEVATOR/LULA	2840			90/3	31 •	32	100/3	-			SPARE
		2840			33	34			-		
			2840		35	• 36				-	
SPD - SURGE PROTECTION	-			40/3	37 ●	38	225/3	24710			PANEL PK
DEVICE		-			39	40			24710		
			-		41	• 42				24710	
TOTALS:	40270	39970	40720		•			61120	80520	65310	

	CONNE	CTED LO	AD (VA)		PHA	ASE		CONNE	CTED LO	AD (VA)	
DESCRIPTION	Α	В	С	BKR	A E	3 C	BKR	Α	В	С	DESCRIPTION
PREPARED SPACE	-	-		-/3	1 • 3	2	-/3	-	-		SPACE - FUTURE PV CONNECTION; MAXIMUM 144KW-AC
			-		5	● 6				-	(500A3P CIRCUIT BREAKER)
ENERGY/POWER MONITORING SYSTEM	-			15/3	7 ●	8	-/3	-			PREPARED SPACE
STSTEIN		-			9	10			-		
			-		11	• 12	40/2			3600	EV1 - ELECTRIC VEHICLE
PANEL LSW	300			60/3	13 •	14		3600			CHARGING STATION
VIA ATS-LSK		0			15	16	40/2		3600		EV1 - ELECTRIC VEHICLE
			750		17	• 18				3600	CHARGING STATION
PANEL SBW	14520			150/3	19 •	20	225/2	22810			PANEL FRKE
VIA ATS-SBK		14520			21	22	(22810		
			14520		23	• 24	200/2	40000		10000 EST	(X)PANEL FRKN
PANEL MK	22610			225/3	25 ●	26	(10000 EST		L51	
		22610			27	28	225/2		23400		PANEL FRKS
			22610		29	• 30	(23400	
ELV1 - ELEVATOR/LULA	2840			90/3	31 ●	32	100/3	-			SPARE
		2840			33	34			-		
			2840		35	• 36				-	
SPD - SURGE PROTECTION	-			40/3	37 ●	38	225/3	24710			PANEL PK
DEVICE		-			39	40			24710		
					41	• 42				24710	
TOTALS:	40270	39970	40720					61120	80520	65310	

DIMENSIONS: 20"W x 5.75"D x MOUNTING: SURFACE PANEL FEED: BOTTOM				Т		L MK ASE PANE	EL .			. RATING	: 225A MLO : 10,000 : SEE ONE LINE DIAGRAM
	CONNE	CTED LO	, ,		PHA			CONNE	CTED LO		
DESCRIPTION	Α	В	С	BKR	A E	3 C	BKR	Α	В	С	DESCRIPTION
HP1A - OUTDOOR HEAT PUMP UNIT	5880	5880		80/3	1 • 3	2	40/2	3750	3750		HP4, FC4A THRU FC4I - HEAT PUMP, FAN COILS (X)FACULTY DORMITORY
HP1B - OUTDOOR HEAT PUMP	5880		5880	80/3	57 •	• 6 8	40/2	3750		3750	HP5, FC5A THRU FC5F - HEAT PUMP, FAN COILS (X)FACULTY RESIDENCE
UNIT		5880			9	10	20/1		20		EF1 - ELEV EXHAUST FAN
			5880		11	• 12	20/1 LO			200	EF2 - KITCHEN HOOD EXHAUS
BC1, PHE1, 2, FC1, FC2, FC3 -	570			LO 15/2	13 •	14	15/2	920			HRU1 - HEAT RECOVERY UNIT
BRANCH CONTROLLER, HEX'S, FAN COILS		570			15	16			920		
FC4, 5, 6, 9, 11, 12 - FAN COILS			630	LO 15/2	17	• 18	20/1			-	SPARE
	630				19 •	20	20/1	-			SPARE
BC2, FC10, 13, 14, 21 THRU 25 -		1210		LO 15/2	21	22	20/1		-		SPARE
BRANCH CONTROLLER, FAN COILS			1210		23	• 24	20/1			-	SPARE
BC3, FC7, FC8, FC15 - BRANCH	740			LO 15/2	25 ●	26	20/1	-			SPARE
CONTROLLER, FAN COILS		740			27	28	20/1		-		SPARE
FC16 THRU FC20 - FAN COILS			910	LO 15/2	29	• 30	20/1			-	SPARE
	910				31 ●	32	20/1	-			SPARE
WH3 - ELECTRIC DOMESTIC		2250		30/2	33	34	20/1		1		SPARE
WATER HEATER			2250		35	• 36	20/1			•	SPARE
P1 - CIRCULATOR PUMP	610			20/1	37 ●	38	20/1	-			SPARE
P2 - CIRCULATOR PUMP		610		20/1	39	40	20/1		-		SPARE
WH-8 - WATER HEATER			1650	20/1	41	• 42	20/1			•	SPARE
SPARE	-			20/1	43 ●	44	20/1	-			SPARE
SPARE		-		20/1	45	46	20/1		-		SPARE
SPARE			-	20/1	47	• 48	20/1			_	SPARE
SPARE	-			20/1	49 ●	50	20/1	-			SPARE
SPARE		-		20/1	51	52	20/1		-		SPARE
SPARE			-	20/1	53	• 54	20/1			_	SPARE
TOTALS:	15220	17140	18410					8420	4690	3950	

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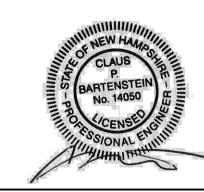
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PERMIT SET 05/15/2023

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

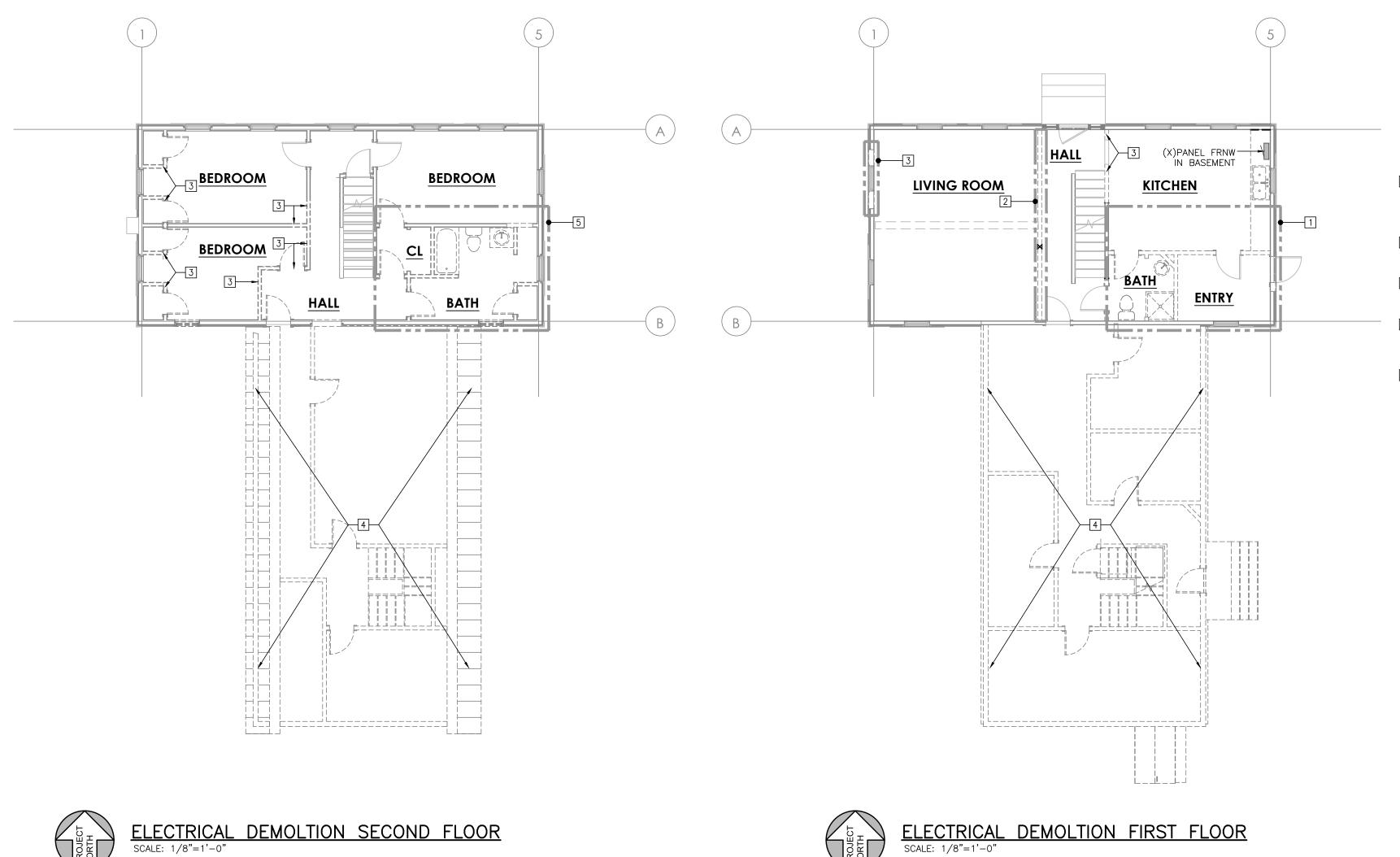
DRAWING NOTES:

- 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 ACCOMODATE FUTURE PV SOLAR INTERCONNECTION TO ALLOW A MAXIMUM OF 144KW-AC TO BE CONNECTED TO THE LOAD SIDE OF THE UTILITY METER.

KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

ELECTRICAL



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.

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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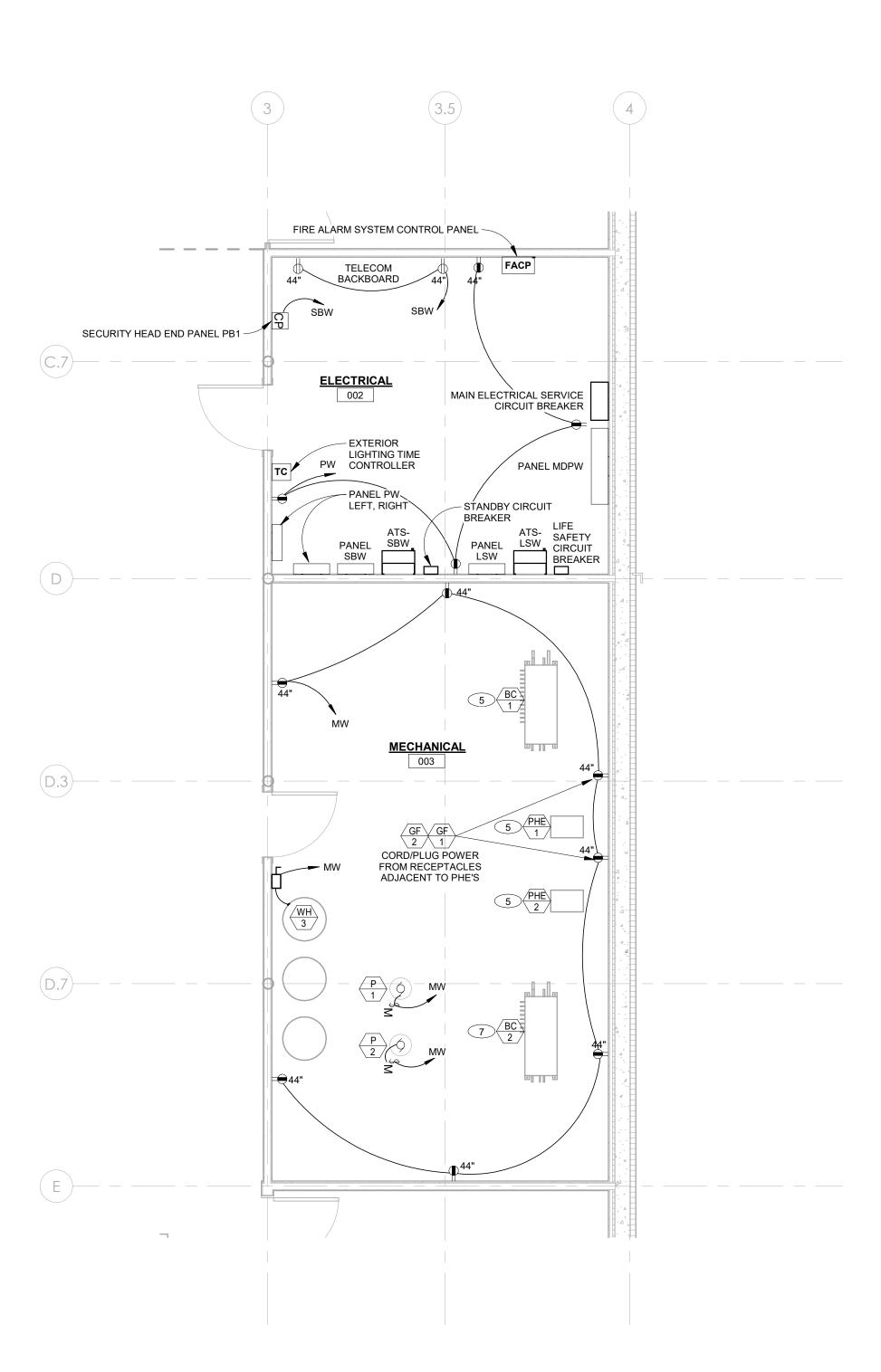
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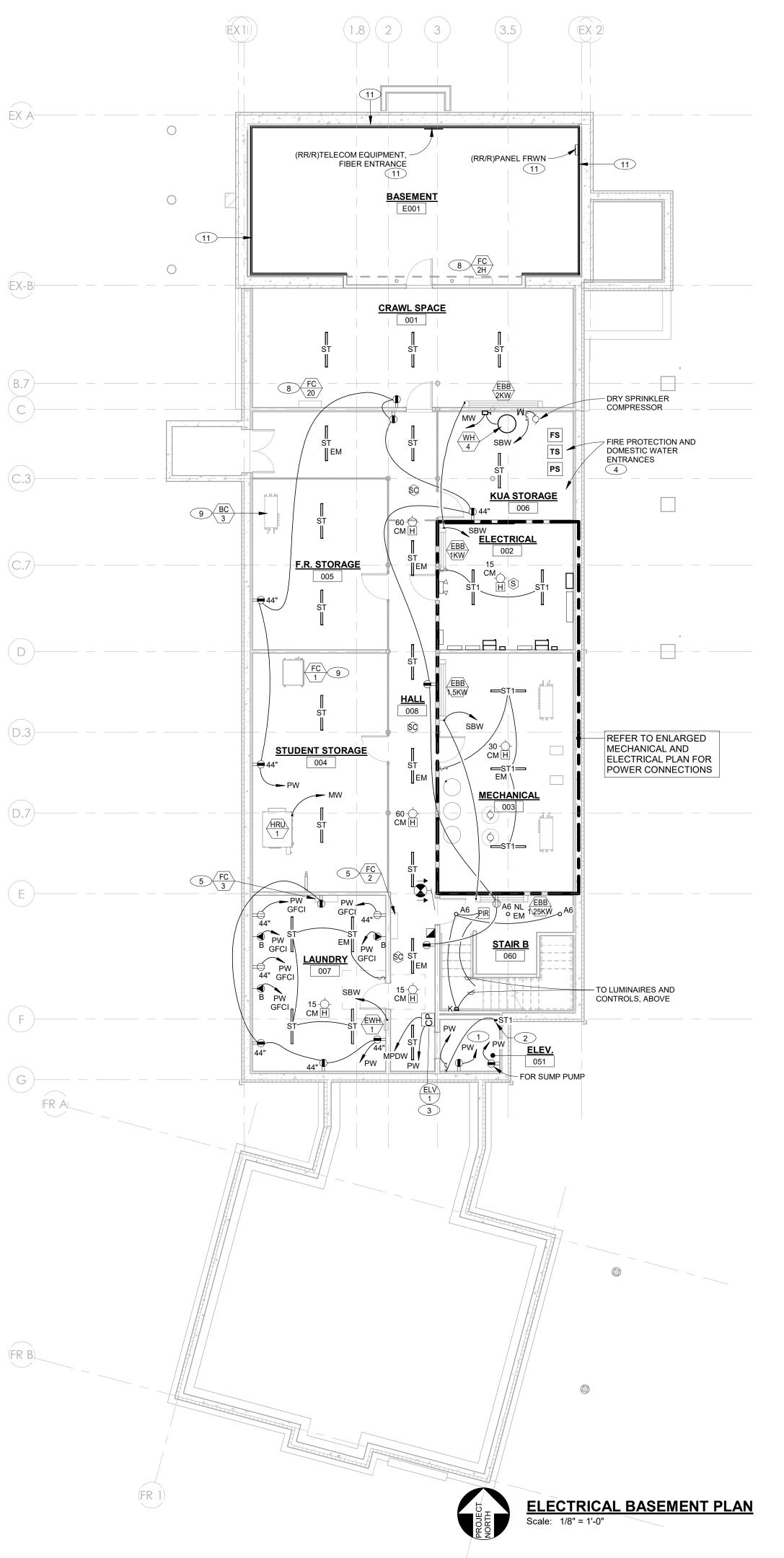
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ELECTRICAL DEMOLITION

IEW11



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



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
- 2. STAND-BY: PROVIDE A COMMON CIRCUIT IN PANEL SBW TO
- SERVE ALL LUMINAIRES IN: A. 002 ELECTRICAL B. 008 HALL C. 060 STAIR B
- 3. PROVIDE A COMMON CIRCUIT IN PANEL PW TO SERVE ALL LUMINAIRES IN:
- A. 001 CRAWL SPACE 003 MECHANICAL
- 004 STUDENT STORAGE
- 005 F.R. STORAGE 006 KUA STORAGE F. 007 LAUNDRY

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
- 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 CAT6 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
- 4 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.
- 5 PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE BC1, PHE1, PHE2, FC2, FC7, FC8.
- 6 PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE FC9, FC10, FC11, FC12, FC13
- 7 PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE BC2, FC13 THROUGH FC16.
- 8 PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE FC17
- 9 PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE BC3, FC1, FC4, FC5, FC6.
- 10 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 ACCOMODATE THIS ENVELOP WORK, REINSTALLING DEVICES IN APPROXIMATELY THE SAME LOCATION IN THE NEW WALL
 - ALL RECEPTACLE DEVICES SHALL BE REPLACED WITH NEW, TAMPER-RESISTANT DEVICES.
 - 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



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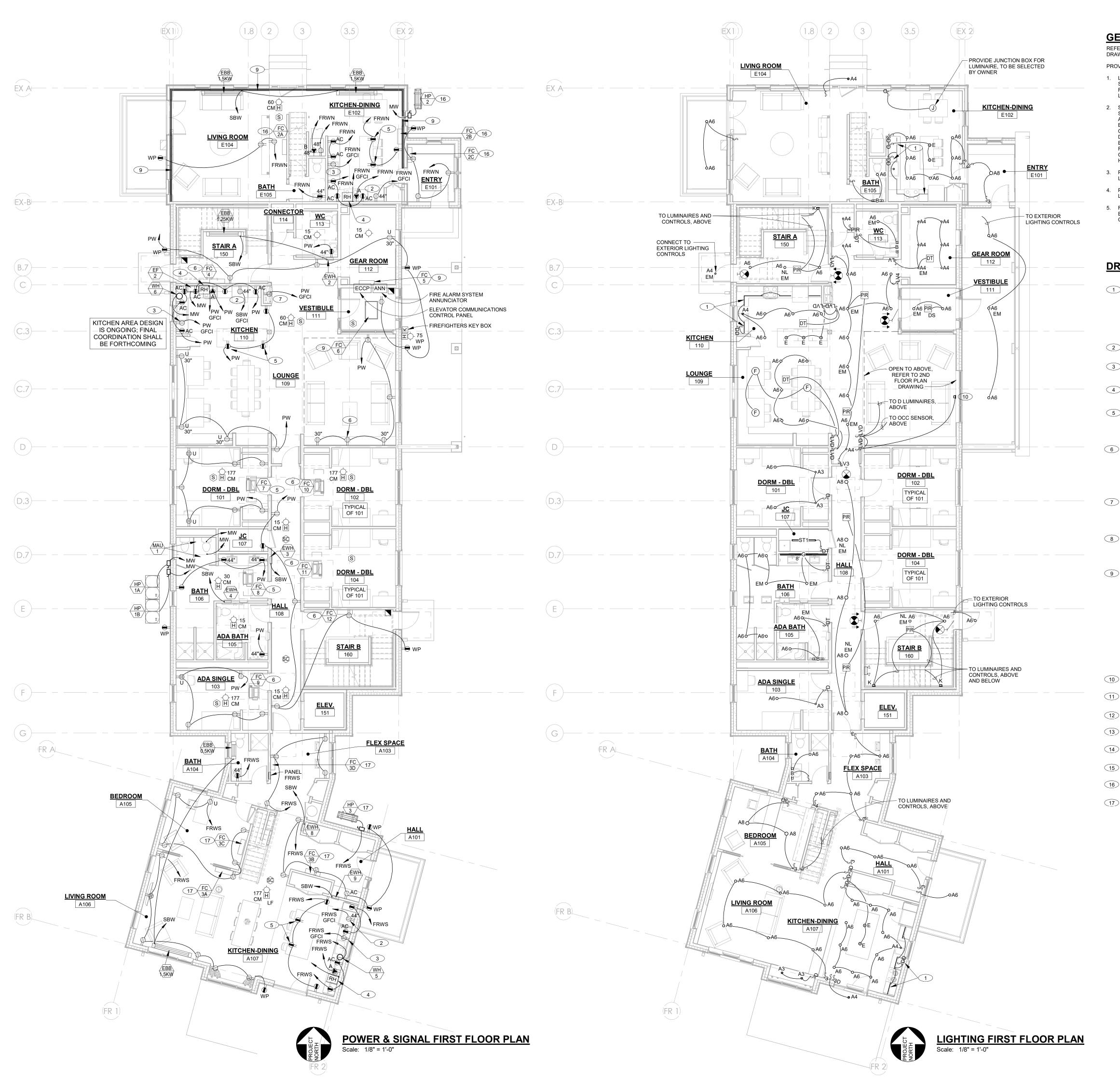
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KUA KILTON/WELCH DORMITORIES

Main Street Meriden NH, 03770

WELCH ELECTRICAL **BASEMENT**

EW12



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
- 2. 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
- 3. PROVIDE A COMMON CIRCUIT IN PANEL PW TO SERVE ALL LUMINAIRES IN THE BALANCE OF THE FIRST 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.
- 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 DEDICATED REFRIGERATOR CIRCUIT ON GFCI PROTECTED CIRCUIT BREAKER.
- 3 DEDICATED DISHWASHER CIRCUIT ON GFCI PROTECTED CIRCUIT BREAKER. RECEPTACLE SHALL BE ACCESSIBLE THROUGH THE CABINETRY BELOW THE SINK.
- 4 KITCHEN HOOD POWER CONNECTION ON GFCI PROTECTED CIRCUIT. SAME CIRCUIT SHALL SERVE ANY UNDERCABINET LIGHTING.
- 5 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.
- 6 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 TVBS613 STEEL MEDIA BOX. MOUNT ~66" AFF, UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECTS ELEVATION DRAWINGS. SUBMIT FLUSH MOUNTED BOX INFORMATION FOR APPROVAL.
- 7 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.
- 8 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 ACCOMODATE THIS ENVELOP WORK, REINSTALLING DEVICES IN APPROXIMATELY THE SAME LOCATION IN THE NEW WALL
 - ALL RECEPTACLE DEVICES SHALL BE REPLACED WITH

 NEW TAMPER RECIPTANT REVICES.
 - 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.
- 10 CENTER LUMINARE 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.
- 14 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.
- 16 PROVIDE WIRING FROM HP2 THROUGH ALL OF FC2A THROUGH
- PROVIDE WIRING FROM HP3 THROUGH ALL OF FC3A THROUGH

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KUA KILTON/WELCH DORMITORIES

Main Street Meriden NH, 03770

WELCH ELECTRICAL FIRST FLOOR

EW13



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
- 2. STAND-BY: PROVIDE A COMMON CIRCUIT IN PANEL SBW TO SERVE ALL LUMINAIRES IN:
- B. 209 HALL 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
- 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
- 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 ACCOMODATE THIS ENVELOP WORK, REINSTALLING DEVICES IN APPROXIMATELY THE SAME LOCATION IN THE NEW WALL SURFACES.
- 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

NEW, TAMPER-RESISTANT DEVICES.

THESE 20 DEVICES.

ALL RECEPTACLE DEVICES SHALL BE REPLACED WITH

- 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
- 6 PROVIDE WIRING FROM HP3 THROUGH ALL OF FC3A THROUGH



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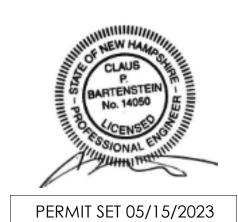
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KUA KILTON/WELCH DORMITORIES

Main Street Meriden NH, 03770

WELCH ELECTRICAL SECOND FLOOR

EW14

DIMENSIONS: 14.25"W x 3.75"D x 38"H MOUNTING: RECESSED PANEL FEED: BOTTOM			=		E PHASE I					IS : 225A MCB . RATING : 10,000 S SIZE : SEE ONE LINE DIAGRAM
CC DESCRIPTION	ONNECTEI A	D LOAD (\ B	/A) BKR		PHASE A B		CO BKR	NNECTEI A	D LOAD (\ B	/A) DESCRIPTION
LIGHTING	780		A 20/1	1	•	2	40/2	3750		HP3, FC3A THRU FC3G - HEAT PUMP,
SPARE		-	A 20/1	3	•	4			3750	FAN COILS FACULTY RESIDENCE A
RCPT - ELECTRIC RANGE	4160		50/2	5	•	6	15/1	400		HRU3 - HEAT RECOVERY UNIT
		4160		7	•	8	LO 20/2		1000	HRU3 - ELECTRIC HEATING COIL
RH - RANGE HOOD, U.C. LIGHTING	250		AG 20/1	9	•	10		1000		
DISHWASHER		1000	G 20/1	11	•	12	30/2		2250	WH7 - ELECT WATER HEATER
RCPT - REFRIGERATOR	700		AG 20/1	13	•	14		2250		
RCPT - APPLIANCE		1500	A 20/1	15	•	16	LO 20/1		1650	WH5 - ELECTRIC WATER HEATER
RCPT - APPLIANCE	1500		A 20/1	17	•	18	G 30/2	2500		RCPT - ELECTRIC CLOTHES DRYER
SPARE		-	AG 20/1	19	•	20			2500	
RCPT - KITCHEN A107, ISLAND	720		A 20/1	21	•	22	AG 20/1	1200		RCPT - CLOTHES WASHER
RCPT - LIVING ROOM A106, EXTERIOR		1440	A 20/1	23	•	24	A 20/1		1260	RCPT - FLEX SPACE A204, HALL A202
RCPT - STUDY A105	1080		A 20/1	25	•	26	A 20/1	1080		RCPT - BEDROOM A201
RCPT - HALL A101, EXTERIOR		1080	A 20/1	27	•	28	A 20/1		1440	RCPT - BEDROOM A207
RCPT - FLEX SPACE A103	900		A 20/1	29	•	30	A 20/1	1080		RCPT - BEDROOM A209
RCPT - BATH A104		180	A 20/1	31	•	32	A 20/1		360	RCPT - BATH A206
SPARE	-		A 20/1	33	•	34	A 20/1	360		RCPT - BATH A208
SPARE		-	20/1	35	•	36	20/1		-	SPARE
SPARE	-		20/1	37	•	38	20/1	-		SPARE
SPARE		-	20/1	39	•	40	20/1		-	SPARE
SPARE	-		20/1	41	•	42	20/1	-		SPARE
TOTALS:	10090	9360						13620	14210	

PANEL FEED : BOTTOM				I	HREE	PHAS	E PANE	:L		LUGS	S SIZE	: SEE ONE LINE DIAGRAM
DESCRIPTION	CONNE A	CTED LO	AD (VA) C	BKR		PHASI A B		BKR	CONNE A	CTED LO.	AD (VA) C	DESCRIPTION
LTG - BASEMENT	490			A 20/1	1 (•	2	50/2	4160			RCPT - ELECTRIC RANGE
LTG - FIRST FLOOR		690		A 20/1	3	•	4			4160		
LTG - SECOND FLOOR			590	A 20/1	5		• 6	AG 20/1			300	RH - RANGE HOOD, U.C. LTG
SPARE	-			A 20/1	7	•	8	G 20/1	1000			DISHWASHER
SPARE		-		A 20/1	9	•	10	20/1		1500		RCPT - APPLIANCE
RCPT - ELECTRICAL 002			720	20/1	11		• 12	20/1			1500	RCPT - APPLIANCE
RCPT - MECHANICAL 003	1260			20/1	13	•	14	20/1	540			RCPT - KITCH 110, ISLAND
RCPT - 001, 004, 005, 006, ETC		1440		20/1	15	•	16	20/1		720		RCPT - LOUNGE 109 DINING
RCPT - LAUNDRY 007			720	20/1	17		• 18	20/1			900	RCPT - LOUNGE 109 LIVING
RCPT - CLOTHES WASHER 007	1200			G 20/1	19	•	20	20/1	1260			RCPT - GEAR, VEST, ETC
RCPT - CLOTHES WASHER 007		1200		G 20/1	21	•	22	20/1		180		RCPT - WATER CLOSET 113
RCPT - CLOTHES WASHER 007			1200	G 20/1	23		• 24	G 20/1			500	RCPT - WATER COOLER
RCPT - ELEC CLOTHES DRYER	2500			G 30/2	25	•	26	20/1	-			SPARE
		2500			27	•	28	20/1		-		SPARE
RCPT - ELEC CLOTHES DRYER			2500	G 30/2	29		• 30	20/1			-	SPARE
	2500				31	•	32	20/1	-			SPARE
RCPT - ELEC CLOTHES DRYER		2500		G 30/2	33	•	34	20/1		-		SPARE
			2500		35		• 36	20/1			300	ELV1 - ELEVATOR CAB POWE
SPARE	-			20/1	37	•	38	20/1	20			LTG - ELEV PIT 051
SPARE		-		20/1	39	•	40	20/1		180		RCPT - ELEV PIT 051
SPARE			-	20/1	41		• 42	20/1			180	RCPT - ELEV PIT SUMP PUM
TOTALS:	7450	7830	7730						6820	6580	3680	

TYPE : SQUARE D DIMENSIONS : 20"W x 5.75 MOUNTING : SURFACE PANEL FEED : BOTTOM						N (RIG ase pane	•	VOLTAGE: 120/208V, 3Ø, 4W MAINS: 225A MLO A.I.C. RATING: 10,000 LUGS SIZE: SEE ONE LINE DIAGRAM			
DESCRIPTION	CONNE A	CTED LO	AD (VA) C	BKR		ASE B C	BKR	CONNE A	CTED LO. B	AD (VA) C	DESCRIPTION
RCPT - DORM 101	1620			A 20/1	1 •	2	A 20/1	1620			RCPT - DORM 201
RCPT - DORM 102		1620		A 20/1	3	• 4	20/1		1620		RCPT - DORM 202
RCPT - DORM 103			1080	A 20/1	5	• 6	20/1			1620	RCPT - DORM 203
RCPT - DORM 104	1620			A 20/1	7 •	8	20/1	1620			RCPT - DORM 204
SPARE		-		20/1	9	• 10	20/1		1620		RCPT - DORM 205
SPARE			-	20/1	11	• 12	20/1			1080	RCPT - DORM 206
RCPT - 107, 108, 160, EXT.	1080			A 20/1	13 •	14	20/1	-			SPARE
RCPT - ADA BATH 105		180		A 20/1	15	• 16	20/1		-		SPARE
RCPT - BATH 106			540	A 20/1	17	• 18	20/1			900	RCPT - BATH 207
SPARE	-			20/1	19 ●	20	20/1	1260			RCPT - 208, 209, 205, 260
SPARE		-		20/1	21	• 22	20/1		900		RCPT - FACULTY STUDY E208
SPARE			-	20/1	23	• 24	20/1			-	SPARE
SPARE	-			20/1	25 ●	26	20/1	-			SPARE
SPARE		-		20/1	27	• 28	20/1		-		SPARE
SPARE			-	20/1	29	• 30	20/1			-	SPARE
SPARE	-			20/1	31 ●	32	20/1	-			SPARE
SPARE		-		20/1	33	• 34	20/1		-		SPARE
SPARE			-	20/1	35	• 36	20/1			-	SPARE
SPARE	-			20/1	37 ●	38	20/1	-			SPARE
SPARE		-		20/1	39	• 40	20/1		-		SPARE
SPARE			-	20/1	41	• 42	20/1			-	SPARE
TOTALS:	4320	1800	1620					4500	4140	3600	

PANEL LSW

THREE PHASE PANEL

а в с

BKR

20/1 1 •

20/1 7 ●

20/1 13 •

20/1 17

20/1 9 • 10

20/1 15 • 16

20/1 5

TYPE : SQUARE D NQ
DIMENSIONS : 20"W x 5.75"D x 26"H
MOUNTING : SURFACE

CONNECTED LOAD (VA)

A В С

22 KVA 60 AMPS 1 KVA 7 AMPS

300

PANEL FEED : BOTTOM

DESCRIPTION

FIRE ALARM CONTROL PANEL

MAXIMUM PANEL CAPACITY: ESTIMATED CONNECTED LOAD:

SPARE

SPARE

SPARE

TOTALS:

TYPE : SQUARE D N DIMENSIONS : 20"W x 5.75"E MOUNTING : SURFACE PANEL FEED : BOTTOM						. PW (RIG E PHASE PANE	,		MAIN A.I.C	IS . RATING	: 120/208V, 3Ø, 4W : 225A MLO : 10,000 : SEE ONE LINE DIAGRAM
		CTED LO	, ,			PHASE			CTED LO	` ,	
DESCRIPTION	Α	В	С	BKR		АВС	BKR	Α	В	С	DESCRIPTION
RCPT - DORM 101	1620			A 20/1	1	• 2	A 20/1	1620			RCPT - DORM 201
RCPT - DORM 102		1620		A 20/1	3	• 4	20/1		1620		RCPT - DORM 202
RCPT - DORM 103			1080	A 20/1	5	• 6	20/1			1620	RCPT - DORM 203
RCPT - DORM 104	1620			A 20/1	7	• 8	20/1	1620			RCPT - DORM 204
SPARE		-		20/1	9	• 10	20/1		1620		RCPT - DORM 205
SPARE			-	20/1	11	• 12	20/1			1080	RCPT - DORM 206
RCPT - 107, 108, 160, EXT.	1080			A 20/1	13	• 14	20/1	-			SPARE
RCPT - ADA BATH 105		180		A 20/1	15	• 16	20/1		1		SPARE
RCPT - BATH 106			540	A 20/1	17	• 18	20/1			900	RCPT - BATH 207
SPARE	-			20/1	19	• 20	20/1	1260			RCPT - 208, 209, 205, 260
SPARE		-		20/1	21	• 22	20/1		900		RCPT - FACULTY STUDY E208
SPARE			-	20/1	23	• 24	20/1			-	SPARE
SPARE	-			20/1	25	• 26	20/1	-			SPARE
SPARE		-		20/1	27	• 28	20/1		-		SPARE
SPARE			-	20/1	29	• 30	20/1			-	SPARE
SPARE	-			20/1	31	• 32	20/1	-			SPARE
SPARE		-		20/1	33	• 34	20/1		-		SPARE
SPARE			-	20/1	35	• 36	20/1			-	SPARE
SPARE	-			20/1	37	• 38	20/1	-			SPARE
SPARE	Ī	-		20/1	39	• 40	20/1		-		SPARE
SPARE	Ī		-	20/1	41	• 42	20/1			-	SPARE
TOTALS:	4320	1800	1620					4500	4140	3600	

VOLTAGE : 120/208V, 3Ø, 4W MAINS : 100A MLO

CONNECTED LOAD (VA)

BKR A B C

530 -

20/1

20/1

• 6 20/1 A

18 20/1

A.I.C. RATING: 10,000 LUGS SIZE: SEE ONE LINE DIAGRAM

SPARE SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

530 LTG - LIFE SAFETY (EM)

DESCRIPTION

MOUNTING : SURFACE PANEL FEED : BOTTOM					PANEL ME THREE PHASE I					. RATING S SIZE	: 22,000 : SEE ONE LINE DIAGRAM
DESCRIPTION	CONNE	ECTED LO	AD (VA) C	BKR	PHASE A B C		BKR	CONNE	CTED LO	AD (VA) C	DESCRIPTION
PREPARED SPACE	-	-	-	-/3	1 • 3 • 5 •	2 4 6	125/3	-	-	-	SPACE - FUTURE PV CONNECTION, MAXIMUM 144KW-AC (500A3P CIRCUIT BREAKER)
ENERGY/POWER MONITORING SYSTEM	-	-	-	15/3	7 • 9 • 11 •	8 10 12	-/3	-	-	-	PREPARED SPACE
PANEL LSW VIA ATS-LSW	300	0	530	60/3	13 • 15 • 17 •	14 16 18	-/3	-	-	-	PREPARED SPACE
PANEL SBW VIA ATS-SBW	12890	12890	12890	150/3	19 • 21 • 23 •	20 22 24	100/3	-	-	-	SPARE
PANEL MW	22600	22600		225/3	25 • 27 •	26 28	-/2	-	-		PREPARED SPACE
ELV1 - ELEVATOR/LULA	2840		22600	90/3	29 • 31 •	30 32	200/2	10000 EST		10000 EST	(R)PANEL FRWN
		2840	2840		33 • 35 •	34 36	225/2		24490	24490	PANEL FRWS
SPD - SURGE PROTECTION DEVICE	-	-	-	40/3	37 • 39 • 41 •	38 40 42	225/3	21710	21710	21710	PANEL PW
TOTALS:	38630	38330	38860		•	•		31710	46200	56200	

TYPE : SQUARE D NC DIMENSIONS : 20"W x 5.75"D MOUNTING : SURFACE PANEL FEED : BOTTOM				Т	PANEL HREE PHAS				MAINS : 225A MLO A.I.C. RATING : 10,000 LUGS SIZE : SEE ONE LINE DIAGRAM		
DESCRIPTION	CONNE A	ECTED LO	AD (VA) C	BKR	PHAS A B		BKR	CONNE A	CTED LO	AD (VA) C	DESCRIPTION
HP1A - OUTDOOR HEAT PUMP UNIT	5880	5880		80/3	1 ● 3 ●	2	40/2	3750	3750		HP2, FC2A THRU FC2G - HEA PUMP, FAN COILS (X)FACULTY RESIDENCE
			5880		5	• 6	20/1			1260	RCPT - MECHANICAL ROOM
HP1B - OUTDOOR HEAT PUMP UNIT	5880			80/3	7 ●	8	20/1	-			SPARE
UNIT		5880	5880		9 •	10 • 12	15/2		920	920	HRU1 - HEAT RECOVERY UN
BC1, PHE1, 2, FC2, FC3, FC7	580			LO 15/2	13 •	14	20/1	400			HRU2 - HEAT RECOVERY UN
FC8 - BRANCH CONTROLLER, HEX'S. FAN COIL FC9, 10, 11, 12, 13 - FAN COILS		580	910	LO 15/2	15 •	16 • 18	20/2		1000	1000	HRU2 - ELECTRIC HEAT COIL
FC9, 10, 11, 12, 13 - FAIN COILS	910		910	LO 13/2	19 •	20	20/1	20		1000	EF1 - EXHAUST FAN
BC2, FC13 THRU FC16 -	910	730		LO 15/2	21 •	22	20/1 20/1 LO	20	190		EF2 - EXHAUST FAN
BRANCH CONTROLLER, FAN		730	730	LO 15/2	23	• 24	20/1 LO		190	610	P1 - CIRCULATOR PUMP
FC17 THRU FC22 - FAN COILS	1100			LO 15/2	25 •	26	20/1	610			P2 - CIRCULATOR PUMP
		1100			27 •	28	20/1		-		SPARE
BC3, FC 1, FC4, FC5, FC6 -			390	LO 15/2	29	• 30	20/1			-	SPARE
BRANCH CONTROLLER, FAN COILS	390				31 •	32	20/1	-			SPARE
WH3 - ELECTRIC DOMESTIC		2250		30/2	33 •	34	20/1		-		SPARE
WATER HEATER			2250		35	• 36	20/1			-	SPARE
WH4 - ELECTRIC DOMESTIC	2250			30/2	37 ●	38	20/1	-			SPARE
WATER HEATER		2250			39 •	40	20/1		-		SPARE
WH6 - INST. WATER HEATER			1650	LO 20/1	41	• 42	20/1			-	SPARE
SPARE	-			20/1	43 ●	44	20/1	-			SPARE
SPARE		-		20/1	45 •	46	20/1		_		SPARE
SPARE			-	20/1	47	• 48	20/1			_	SPARE
SPARE	_			20/1	49 •	50	20/1	-			SPARE
SPARE		-		20/1	51 •	52	20/1		-		SPARE
SPARE			-	20/1	53	• 54	20/1			-	SPARE
TOTALS:	16990	18670	17690					4780	5860	3790	



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



PERMIT SET 05/15/2023

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:

- 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 ACCOMODATE FUTURE PV SOLAR INTERCONNECTION TO ALLOW A MAXIMUM OF 144KW—AC TO BE CONNECTED TO THE LOAD SIDE OF THE UTILITY METER.

KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

ELECTRICAL

TYPE : SQUARE D NQ DIMENSIONS : 20"W x 5.75"D x MOUNTING : SURFACE PANEL FEED : BOTTOM	: 38"H				PANEL HREE PHAS				MAIN A.I.C	IS . RATING	: 120/208V, 3Ø, 4W : 225A MLO : 10,000 : SEE ONE LINE DIAGRAM
	CONNE	CTED LO	AD (VA)		PHAS	SE		CONNE	CTED LO	AD (VA)	
DESCRIPTION	Α	В	С	BKR	A B	С	BKR	Α	В	С	DESCRIPTION
LTG -STAND-BY	850			A 20/1	1 •	2	20/2 LO	1500			EBB - ELECTRIC BASEBOARI (X)FACULTY RESIDENCE
EBB - ELECTRIC BASEBOARD DORMITORY BASEMENT		1500		LO 20/2	3 ●	4			1500		FIRST FLOOR
DORWITORT DAGEWENT			1500		5	• 6	20/2 LO			1250	EBB, EWH7 - ELECTRIC HEAT (X)FACULTY RESIDENCE
EBB - ELECTRIC BASEBOARD DORMITORY BASEMENT	1880			LO 20/2	7 ●	8		1250			SECOND FLOOR
DORWITORT DAGEWENT		1880			9 •	10	20/1 LO		1500		EWH11 ELECTRIC HEATER
EWH1 ELECTRIC HEATER			1000	LO 20/2	11	• 12	20/1			-	SPARE
DORMITORY BASEMENT	1000				13 •	14	20/2 LO	1000			EBB - ELECTRIC BASEBOARD
RCPT - AT SERVICE ENTRANCE		180		A 20/1	15 ●	16			1000		FACULTY RESIDENCE A FIRST FLOOR
RCPT - TELECOM BACKBOARD			360	A 20/1	17	• 18	20/2 LO			1000	EWH8 ELECTRIC HEATER
RCPT - LOUNGE REFRIG.	900			AG 20/1	19 •	20		1000			FACULTY RESIDENCE A FIRST FLOOR
SPARE		-		20/1	21 •	22	20/2 LO		1000		EWH9 ELECTRIC HEATER
SPARE			-	20/1	23	• 24				1000	FACULTY RESIDENCE A FIRST FLOOR
SPARE	-			20/1	25 ●	26	20/2 LO	1000			EWH10 ELECTRIC HEATER
SPARE		-		20/1	27 •	28			1000		FACULTY RESIDENCE A SECOND FLOOR
SPARE			-	20/1	29	• 30	20/1 LO			1500	EWH12 ELECTRIC HEATER
SPARE	-			20/1	31 ●	32	20/1 LO	1500			EWH13 ELECTRIC HEATER
SPARE		-		20/1	33 •	34	20/2 LO		1000		EWH5 ELECTRIC HEATER
SPARE			-	20/1	35	• 36				1000	DORMITORY SECOND FLOOR
SPARE	-			20/1	37 ●	38	20/2 LO	1000			EWH3 ELECTRIC HEATER
SPARE		-		20/1	39 •	40			1000		DORMITORY FIRST FLOOR
SPARE			-	20/1	41	• 42	20/2 LO			1000	EWH4 ELECTRIC HEATER
SPARE	-			20/1	43 ●	44		1000			DORMITORY FIRST FLOOR
SPARE		-		20/1	45 ●	46	20/2 LO		1500		EBB, EWH6 - ELECTRIC HEAT
SPARE			-	20/1	47	• 48				1500	DORMITORY SECOND FLOOR
SPARE	-			20/1	49 ●	50	20/1	-			SPARE
SPARE		-		20/1	51 •	52	20/1		-		SPARE
SPARE			-	20/1	53	• 54	20/1			-	SPARE
TOTALS:	3730	3560	2860		-			9250	9500	8250	

	MEC	CHANIC	AL EQ	UIPMENT SCH	EDULE -	KILTON		
\ominus	DESCRIPTION	LOAD	VOLTAGE SYSTEM	CONDUCTORS AND CONDUIT	CIRCUIT PROTECT	CONTACTOR OR STARTER	LOCAL DISCONNECT	REMARKS
HP1A	OUTDOOR AIR SOURCE HEAT PUMP UNIT	49 MCA	208V 3ø	(3#10, 1#10G) 1/2°C.	80A3P MOCP	INTEGRAL TO EQUIPMENT	100A3P NON-FUSED NEMA 3R	1
HP1B	OUTDOOR AIR SOURCE HEAT PUMP UNIT	49 MCA	208V 3ø	(3#10, 1#10G) 1/2°C.	80A3P MOCP	INTEGRAL TO EQUIPMENT	100A3P NON-FUSED NEMA 3R	1
BC1	BRANCH BOX CONTROLLER	0.137 AMP	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
PHE-1, PHE-2	PLATE HEAT EXCHANGER	0.9 MCA	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
FC1	FAN COIL UNIT	2.94 MCA	208V 1ø	(2#12, 1#12G) 1/2°C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
FC2, FC3	FAN COIL UNIT	0.28 MCA	208V 1ø	(2#12, 1#12G) 1/2°C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
FC4, 5, 9	FAN COIL UNIT	0.28 MCA	208V 1ø	(2#12, 1#12G) 1/2°C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
FC6, 11, 12	FAN COIL UNIT	1.75 MCA	208V 1ø	(2#12, 1#12G) 1/2°C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
BC2	BRANCH BOX CONTROLLER	0.61 AMP	208V 1ø	(2#12, 1#12G) 1/2°C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
FC10, FC25	FAN COIL UNIT	0.28 MCA	208V 1ø	(2#12, 1#12G) 1/2°C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
C13, 14	FAN COIL UNIT	1.75 MCA	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
вс3	BRANCH BOX CONTROLLER	0.61 AMP	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
FC7, FC8	FAN COIL UNIT	1.75 MCA	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
FC15	FAN COIL UNIT	2.94 MCA	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
FC16 - FC20	FAN COIL UNIT	1.75 MCA	208V 1ø	(2#12, 1#12G) 1/2°C.	15A2P	INTEGRAL TO EQUIPMENT	7	1
HP2	OUTDOOR AIR SOURCE HEAT PUMP UNIT FACULTY RESIDENCE B	36 MCA	208V 1ø	(2#8, 1#10G) 3/4°C.	40A3P MOCP	INTEGRAL TO EQUIPMENT	60A3P NON-FUSED NEMA 3R	1
FC2A - FC2F	FAN COIL UNIT			(3#12, 1#12G) 1/2"C. FROM HP2	15A2P	INTEGRAL TO EQUIPMENT	6	1
HP3	OUTDOOR AIR SOURCE HEAT PUMP UNIT FACULTY RESIDENCE A	36 MCA	208V 1ø	(2#8, 1#10G) 3/4°C.	40A3P MOCP	INTEGRAL TO EQUIPMENT	60A3P NON-FUSED NEMA 3R	1
FC3A - FC2H	FAN COIL UNIT			(3#12, 1#12G) 1/2°C. FROM HP3	15A2P	INTEGRAL TO EQUIPMENT	6	1
HP4	OUTDOOR AIR SOURCE HEAT PUMP UNIT (X)DORMITORY	36 MCA	208V 1ø	(2#8, 1#10G) 3/4°C.	40A3P MOCP	INTEGRAL TO EQUIPMENT	60A3P NON-FUSED NEMA 3R	1
FC4A - FC4I	FAN COIL UNIT			(3#12, 1#12G) 1/2"C. FROM HP4	15A2P	INTEGRAL TO EQUIPMENT	6	1
HP5	OUTDOOR AIR SOURCE HEAT PUMP UNIT (X)FACULTY RESIDENCE	36 MCA	208V 1ø	(2#8, 1#10G) 3/4°C.	40A3P MOCP	INTEGRAL TO EQUIPMENT	60A3P NON-FUSED NEMA 3R	1
FC5A - FC5F	FAN COIL UNIT			(3#12, 1#12G) 1/2"C. FROM HP5	15A2P	INTEGRAL TO EQUIPMENT	6	1
EBB	ELECTRIC BASEBOARD RADIATION	250 WATT/FT KW VARIES, SEE PLANS	208V 1ø	(2#12, 1#12G) 1/2"C.	20A2P	INTEGRAL TO EQUIPMENT	7	1
EWH1 - EWH9	ELECTRIC WALL HEATERS	2 KW	208V 1ø	(2#12, 1#12G) 1/2"C.	20A2P	INTEGRAL TO EQUIPMENT	INTEGRAL TO EQUIPMENT	1
WH10 - EWH15	ELECTRIC WALL HEATERS	1.5 KW	120V 1ø	(2#12, 1#12G) 1/2"C.	20A1P	INTEGRAL TO EQUIPMENT	INTEGRAL TO EQUIPMENT	1
HRU1	HEAT RECOVERY UNIT	(2) 1HP	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	INTEGRAL TO EQUIPMENT	1
HRU2, HRU3	HEAT RECOVERY UNIT	3.3 FLA	120V 1ø	(2#12, 1#12G) 1/2°C.	20A1P	INTEGRAL TO EQUIPMENT	INTEGRAL TO EQUIPMENT	1
	HRU ELECTRIC HEAT COIL	2 KW	208V 1ø	(2#12, 1#12G) 1/2"C.	20A2P	INTEGRAL TO EQUIPMENT	7	1
EF1	CEILING EXHAUST FAN	13 WATT	120V 1ø	(2#12, 1#12G) 1/2"C.	20A1P	INTEGRAL TO EQUIPMENT	INTEGRAL TO EQUIPMENT	1
EF2	INLINE EXHAUST FAN	188 WATT	120V 1ø	(2#12, 1#12G) 1/2°C.	20A1P	INTEGRAL TO EQUIPMENT	7	1
P1, P2	CIRCULATOR PUMP	606 WATT	120V 1ø	(2#12, 1#12G) 1/2°C.	20A1P	INTEGRAL TO EQUIPMENT	MOTOR SWITCH	1
WH3	ELECTRIC WATER HEATER	4500 WATT	208V 1ø	(2#12, 1#12G) 1/2°C.	30A2P	INTEGRAL TO EQUIPMENT	30A2P NON-FUSED NEMA 1	1
WH4, WH5	ELECTRIC WATER HEATER	4500 WATT	208V 1ø	(2#12, 1#12G) 1/2°C.	30A2P	INTEGRAL TO EQUIPMENT	30A2P NON-FUSED NEMA 1	1
WH 6,7,8	POINT OF USE ELECTRIC WATER HEATER	1650 WATT	120V 1ø	(2#12, 1#12G) 1/2°C.	20A1P	INTEGRAL TO EQUIPMENT	7	1
ABBRI FLA HP KW	EVIATIONS = FULL LOAD AMF = MOTOR HORSEF = KILOWATTS				IINIMUM CIRCU IAXIMUM OVER	JIT AMPS CURRENT PR	OTECTION	

		4					
FC1	FAN COIL UNIT	2.94 MCA	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	7
FC2 - FC6	FAN COIL UNIT	0.24 MCA	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	7
FC7 - FC12	FAN COIL UNIT	1.75 MCA	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	7
FC13 - FC19	FAN COIL UNIT	1.75 MCA	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	7
PHE-1, PHE-2	PLATE HEAT EXCHANGER	0.9 MCA	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	7
GF-1, GF-2	GLYCOL FEEDERS	50 WATT	120V 1ø	(2#12, 1#12G) 1/2°C.	20A1P	INTEGRAL TO EQUIPMENT	CORD/PLUG NEMA 5-20
HP2	OUTDOOR AIR SOURCE HEAT PUMP UNIT (X)FACULTY RESIDENCE	36 MCA	208V 1ø	(2#8, 1#10G) 3/4°C.	40A3P MOCP	INTEGRAL TO EQUIPMENT	60A3P NON-FUSED NEMA 3R
FC2A - FC2G	FAN COIL UNIT			(3#12, 1#12G) 1/2"C. FROM HP2	15A2P	INTEGRAL TO EQUIPMENT	6
HP3	OUTDOOR AIR SOURCE HEAT PUMP UNIT FACULTY RESIDENCE A	36 MCA	208V 1ø	(2#8, 1#10G) 3/4°C.	40A3P MOCP	INTEGRAL TO EQUIPMENT	60A3P NON-FUSED NEMA 3R
FC3A - FC3G	FAN COIL UNIT			(3#12, 1#12G) 1/2"C. FROM HP2	15A2P	INTEGRAL TO EQUIPMENT	6
EBB	ELECTRIC BASEBOARD RADIATION	250 WATT/FT KW VARIES, SEE PLANS	208V 1ø	(2#12, 1#12G) 1/2°C.	20A2P	INTEGRAL TO EQUIPMENT	7
EWH1 - EWH10		2 KW	208V 1ø	(2#12, 1#12G) 1/2"C.	20A2P	INTEGRAL TO EQUIPMENT	INTEGRAL TO EQUIPMENT
EWH11 EWH13	ELECTRIC WALL HEATERS	1.5 KW	120V 1ø	(2#12, 1#12G) 1/2"C.	20A1P	INTEGRAL TO EQUIPMENT	INTEGRAL TO EQUIPMENT
HRU1	HEAT RECOVERY UNIT	(2) 1HP	208V 1ø	(2#12, 1#12G) 1/2"C.	15A2P	INTEGRAL TO EQUIPMENT	INTEGRAL TO EQUIPMENT
HRU2, HRU3	HEAT RECOVERY UNIT	3.3 FLA	120V 1ø	(2#12, 1#12G) 1/2"C.	20A1P	INTEGRAL TO EQUIPMENT	INTEGRAL TO EQUIPMENT
	HRU ELECTRIC HEAT COIL	2 KW	208V 1ø	(2#12, 1#12G) 1/2"C.	20A2P	INTEGRAL TO EQUIPMENT	7
							1
EF1	CEILING EXHAUST FAN	13 WATT	120V 1ø	(2#12, 1#12G) 1/2°C.	20A1P	INTEGRAL TO EQUIPMENT	INTEGRAL TO EQUIPMENT
EF1	CEILING EXHAUST FAN	13 WATT		(2#12, 1#12G) 1/2"C. (2#12, 1#12G) 1/2"C.	20A1P 20A1P		
			1ø 120V			EQUIPMENT INTEGRAL TO	EQUIPMENT 7
EF2 P1,	INLINE EXHAUST FAN	188 WATT	1ø 120V 1ø	(2#12, 1#12G) 1/2"C.	20A1P	EQUIPMENT INTEGRAL TO EQUIPMENT INTEGRAL TO	EQUIPMENT 7 MOTOR
EF2 P1, P2	INLINE EXHAUST FAN CIRCULATOR PUMP	188 WATT 606 WATT 4500 WATT	1ø 120V 1ø 120V 1 ø 208V	(2#12, 1#12G) 1/2"C. (2#12, 1#12G) 1/2"C.	20A1P 20A1P	EQUIPMENT INTEGRAL TO EQUIPMENT INTEGRAL TO EQUIPMENT INTEGRAL TO	EQUIPMENT 7 MOTOR SWITCH 30A2P NON-FUSED
EF2 P1, P2 WH3	INLINE EXHAUST FAN CIRCULATOR PUMP ELECTRIC WATER HEATER	188 WATT 606 WATT 4500 WATT 1650 WATT	1ø 120V 1ø 120V 1ø 208V 1ø 208V	(2#12, 1#12G) 1/2"C. (2#12, 1#12G) 1/2"C. (2#12, 1#12G) 1/2"C.	20A1P 20A1P 30A2P	EQUIPMENT INTEGRAL TO EQUIPMENT INTEGRAL TO EQUIPMENT INTEGRAL TO EQUIPMENT	MOTOR SWITCH 30A2P NON-FUSED NEMA 1 30A2P NON-FUSED

MECHANICAL EQUIPMENT SCHEDULE - WELCH

49 MCA | 208V | (3#10, 1#10G) 1/2"C. | 80A3P

FRACTIONAL 208V (2#12, 1#12G) 1/2"C. 15A2P

(3#10, 1#10G) 1/2"C. 80A3P

DESCRIPTION

49 MCA

208V

HP1A OUTDOOR AIR SOURCE

HP1B OUTDOOR AIR SOURCE

CONTROLLER

BC1 - BRANCH BOX

BC3

EAT PUMP UNIT

EAT PUMP UNIT

CIRCUIT CONTACTOR LOCAL PROTECT OR STARTER DISCONNECT

EQUIPMENT

INTEGRAL TO

EQUIPMENT

INTEGRAL TO

EQUIPMENT

INTEGRAL TO 100A3P

NON-FUSED

NON-FUSED

100A3P

7

REMARKS

		BUIL	DING I	EQUIPMENT S	CHEDUL	.E		
Θ	DESCRIPTION	LOAD	VOLTAGE SYSTEM	CONDUCTORS AND CONDUIT	CIRCUIT PROTECT	CONTACTOR OR STARTER	LOCAL DISCONNECT	REMARKS
ELV1	ELEVATOR (LIFT)	8.5 KW	208V 3ø	(3#10, 10G) 1/2°C.	30A3P		INTEGRAL TO ELEVATOR CONTROLLER	1)2
₽ A	TYPICAL ELECTRIC COOKING RANGE RECEPTACLE	8 KW	208V, 1ø	(2#6, 1#6N, 1#6G)AL SE CABLE	50A2P	INTEGRAL TO RANGE	CORD/PLUG CONNECTION NEMA 14-50	135
₽ B	TYPICAL ELECTRIC CLOTHES DRYER RECEPTACLE	5 KW	208V, 1ø	(2#10, 1#10N, 1#10G)AL SE CABLE	30A2P	INTEGRAL TO DRYER	CORD/PLUG CONNECTION NEMA 14-30	13
EV1	LEVEL 2 SINGLE PORT ELECTRIC VEHICLE CHARGING STATION	7.2 KW	208V, 1ø	(2#6, 1#10G) 1"C.	40A2P	INTEGRAL TO VEHICLE	INTEGRAL TO CHARGING STATION	16

ABBREVIATIONS

FLA = FULL LOAD AMPS

HP = MOTOR HORSEPOWER

KW = KILOWATTS

MCA = MINIMUM CIRCUIT AMPS MOCP = MAXIMUM OVER-CURRENT PROTECTION

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ELECTRICAL ENGINEER

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO CLAUS BARTENSTEIN, P.E., LEED-AP Engineering Services of Vermont, LLC claus.bartenstein@esvtllc.com

DRAWING NOTES:

GENERAL NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

- 1 ELECTRICAL CONNECTION INFORMATION IS BASED UPON THE SPECIFIED "BASIS OF DESIGN" EQUIPMENT. VERIFY ALL CONNECTION REQUIREMENTS WITH THE APPROVED EQUIPMENT SUBMITTALS AND/OR SHOP DRAWINGS PRIOR TO ANY
- 2 ELEVATOR INFORMATION IS BASED UPON BASIS OF DESIGN PRODUCT SAVARIA ORION SVL COMMERCIAL ELEVATOR. VERIFY ELEVATOR CHARACTERISTICS WITH THE APPROVED SHOP DRAWING PRIOR TO WORK.
- 3 PROVIDE MATCHING CORD/CAP ASSEMBLY AND INSTALL ON THE APPLIANCE.
- 4 PROVIDE LEVEL 2 ELECTRICAL VEHICLE CHARGING STATION. BASIS OF DESIGN IS CHARGEPOINT CT4011 SINGLE PORT BOLLARD MOUNT, 7.26KW OUTPUT POWER WITH 18' CABLE WITH SAE J1772 CHARGE CONNECTOR WITH CHARGEPOINT WIRELESS COMMUNICATIONS.
- PROVIDE INTEGRAL GATEWAY MODEM (USA) GW1. NO CELLULAR SERVICE AT THE CAMPUS; MODEM WILL HAVE TO CONNECT THROUGH WIFI OR HARDWIRED CAT6 CONNECTION.
- INSTALL ON CONCRETE BASE. REFER TO LIGHT POLE CONCRETE BASE DETAIL; EV CHARGING STATION SIMILAR EXCEPT ONLY 6" EXPOSED ABOVE FINISHED GRADE.
- PROVIDE BOLLARD CONCRETE MOUNTING KIT CT4001—CCM
- PROVIDE SOFTWARE AND SERVICE OPTIONS;
- •• CHARGPOINT COMMERCIAL SERVICE PLAN CPCLD-COMMERCIAL-(3 YEARS)
- •• CHARGEPOINT ASSURE CT4000-ASSURE-(3 YEARS)
- •• STATION ACTIVATION AND CONFIGURATION CPSUPPORT-ACTIVE

ALTERNATIVE PRODUCTS AND SERVICE PLANS, SUCH AS BREEZEV, MAY BE CONSIDERED BY KUA. ULTIMATELY KUA WILL HAVE FINAL SAY ON PRODUCT/SERVICE TO BE PROVIDED.

- 5 ROUTE CIRCUIT WIRING VIA EXHAUST HOOD FIRE PROTECTION CONTROL PANEL TO DE-ENERGIZE RANGE UPON ACTIVATION OF DRY CHEMICAL FIRE PROTECTION SYSTEM.
- 6 FAN COIL UNIT POWERED FROM HEAT PUMP UNIT IS AN APPLIANCE SYSTEM. LOCKING DISCONNECT AT HEAT PUMP SERVES AS A LOCKABLE DISCONNECT FOR FAN COIL UNIT.
- 7 LOCAL DISCONNECT IS NOT REQUIRED AS THE BRANCH CIRCUIT OVERCURRENT DEVICE (CIRCUIT BREAKER) SHALL BE PROVIDED WITH A PERMANENT PADLOCK CLIP TO ALLOW LOCKING OF THE CIRCUIT BREAKER IN THE OPEN (OFF) POSITION (NEC 422.31).

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

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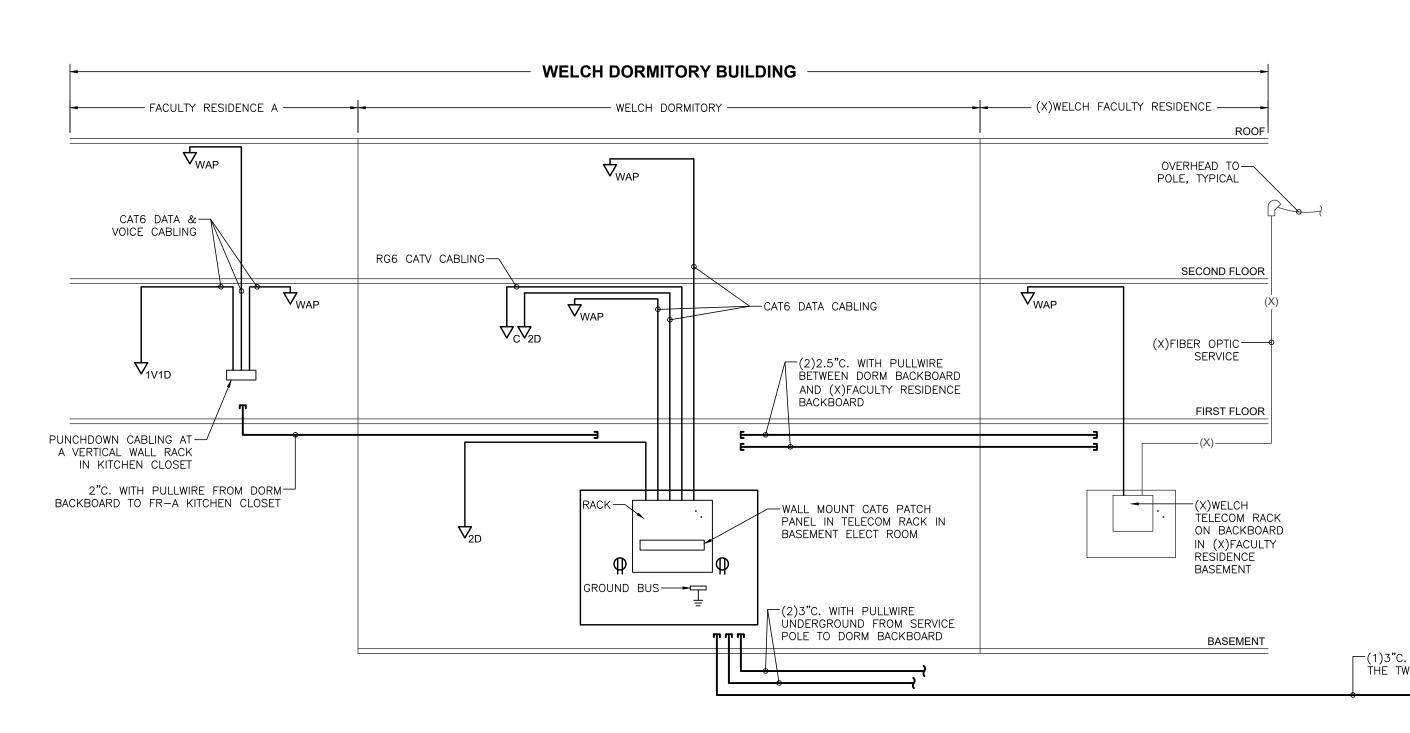


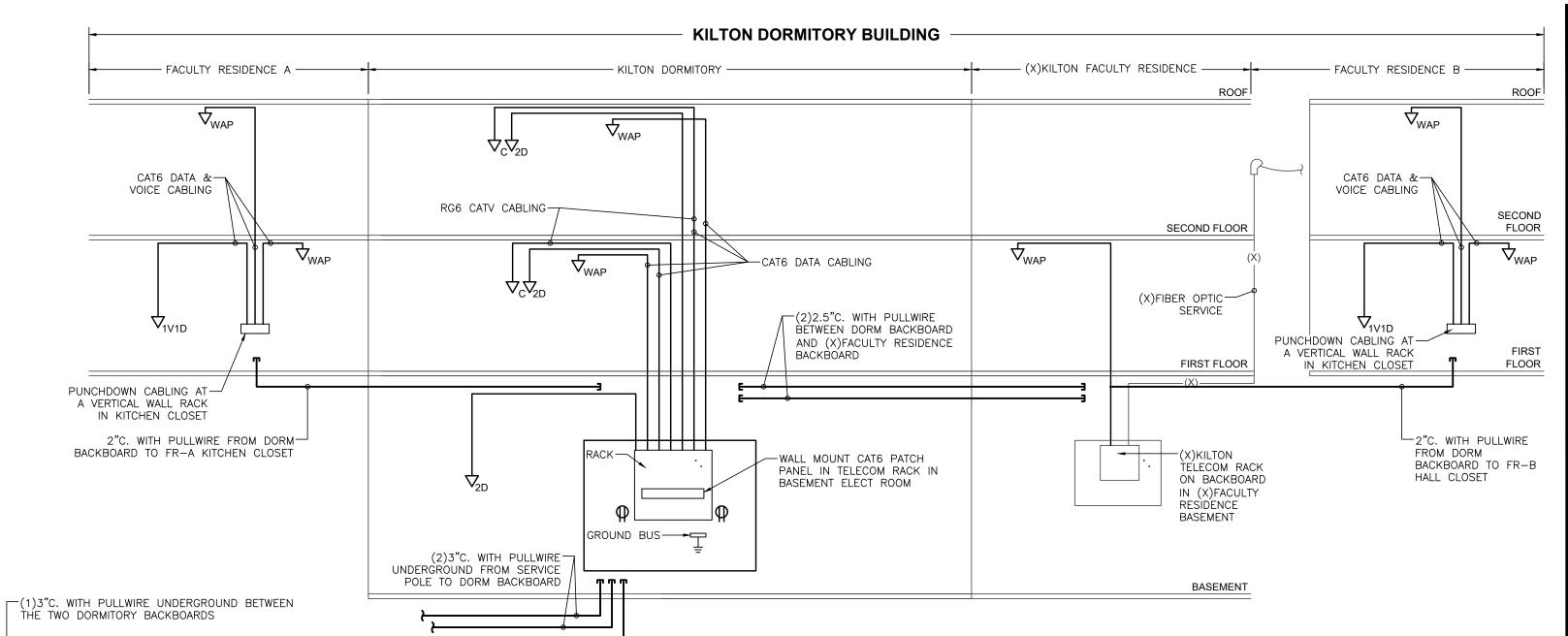
PERMIT SET 05/15/2023

KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

ELECTRICAL SCHEDULES





TELECOMMUNICATIONS RISER DIAGRAM

TELECOMMUNICATIONS SYSTEM NOTES:

- 1. PROVIDE A COMPLETE SYSTEM OF CABLING FROM THE SWITCHES IN THE WALL RACKS IN THE ELECT ROOM TO WALL ALL CABLING SYSTEMS SHALL BE PROVIDED COMPLETE FROM THE PATCH PANELS THROUGH TO WALL JACKS LOCATIONS TO INCLUDE LABELING AND TESTING.
- 1.1. THIS CONTRACTOR SHALL PROVIDE RACKS, POWER SUPPLIES, PATCH PANELS, CABLING AND WALL JACKS AS
- 1.2. COORDINATE WITH OWNER'S INFORMATION TECHNOLOGY 3. PROVIDE CABLING AS FOLLOWS: 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.
- 1.3. THIS CONTRACTOR SHALL PROVIDE (FURNISH AND INSTALL) ALL PATHWAYS (CONDUIT, SLEEVES, J-HOOKS, BOXES) AS SPECIFIED.
- 1.3.1. UTILIZE J-HOOKS IN THE CEILING FOR ROUTING CABLING; UTILIZE VELCRO STRAPS TO SECURE
- 2. 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
- 2.2. PROVIDE BUSHING ON THE OPEN ENDS OF ALL CONDUITS

CAT6 CABLES (BLUE)

- 3.1. CATV JACK SHALL HAVE (1) RG6 CABLE, BLACK 3.2. VOICE (TELEPHONE) JACK SHALL HAVE (1) CAT6 CABLE
- 3.2. DATA (ETHERNET/INTERET) JACK SHALL HAVE CAT6 CABLES, QUANTITY AS INDICATED (BLUE)

3.2. WAP (WIRELESS ACCESS POINT) JACK SHALL HAVE (2)

4. 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.

==== ROOF

- 4.1. PROVIDE GROUND BUS TERMINAL STRIP CONNECTED TO THE ELECTRICAL SERVICE GROUND ELECTRODE WITH #6 AWG COPPER CONDUCTOR. BUS SHALL BE FOUR SCRËW TERMINAL BRASS CONSTRUCTION, ARLINGTON #GBBS OR APPROVED EQUAL. PROVIDE CONNECTION TO EQUIPMENT
- 4.2. PROVIDË POWER STRIP MOUNTED VERTICALLY ON RACK. 4.3. PROVIDE THREE 20A DUPLEX RECEPTACLES ON EITHER SIDE AND MIDDLE OF THE BACKBOARD, 48" AFF

RACK, #6 AWG COPPER CONDUCTOR.

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ELECTRICAL ENGINEER

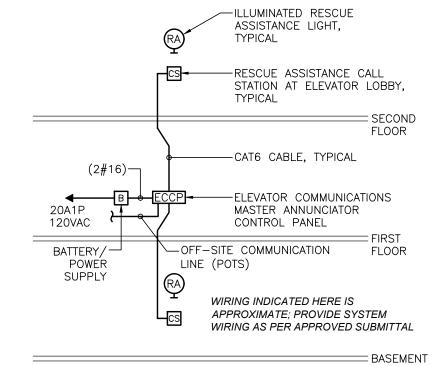
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ELEVATOR COMMUNICATIONS SYSTEM WIRING DIAGRAM

NOTES:
1. BASIS OF DESIGN IS THE CORNELL COMMUNICATIONS 4800

- 1.1. CORNELL A-4800IPM MASTER UNIT 1.2. CORNELL A-4800IP-MB UNINTERRUPTIBLE POWER SUPPLY 1.3. CORNELL A-4800IPB BASE STATOIN
- 1.4. CORNELL A-4800VIP FLUSH MOUNT INDOOR CALL STATION 1.5. CORNELL SN-P48SL SELF ADHESIVE SIGN 1.6. CORNELL SN-LM42S ILLUMINATED SIGN (SINGLE SIGN) 1.7. CORNELL SN-LM42D ILLUMINATED SIGN (DOUBLE SIGN)
- 2. PROVIDE 20A1P 120VAC CIRCUIT FROM HOUSE PANEL PSB WITH LOCK-ON CLIP. (2#12, 1#12G)
- 3. 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. 4. MOUNT CONTROL PANEL AND CALL STATIONS SUCH THAT THE
- TOP PUSHBUTTON IS NO HIGHER THAN 48" AFF.
- 5. COORDINATE LOCATIONS FOR CALL STATIONS AND CONTROL PANEL WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO
- 6. 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.
- 7. SUBMIT PRODUCT INFORMATION FOR APPROVAL. INCLUDE ALL COMPONENTS AS WELL AS WIRING DIAGRAM INCLUDING IDENTIFICATION OF ALL CABLING TYPES,

GENERAL NOTES:

- 1. ACCESS CONTROL DEVICES ARE AS PER GRIFFIN SECURITY TECHNOLOGIES, LLC DOCUMENTS, ACCESS CONTROL DEVICES ARE AS PER GRIFFIN SECURITY TECHNOLOGIES, LLC DOCUMENTS, DATED 05/02/2023. CABLING, RACEWAYS, 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.

LOW VOLTAGE LEGEND:

DATA (LAN) DEVICE OUTLET, NUMBER INDICATES NUMBER OF CABLES; 1V1D = ONE VOICE, ONE DATA JACK/CABLE CATV (CABLE TELEVISION) DEVICE OUTLET,

(1)RG6 CABLE CEILING MOUNTED DATA (LAN) WIRELESS

ACCESS POINT, NUMBER INDICATES NUMBER OF CABLES; (2)CAT6 CABLES ELEVATOR COMMUNICATIONS MASTER

ANNUNCIATOR CONTROL PANEL ELEVATOR COMMUNICATIONS CALL STATION

SECURITY CAMERA LOCATION, CEILING \square MOUNTED, UON

ACCESS CONTROL SYSTEM CARD READER

MONITOR POINT ACCESS POINT

ABOVE COUNTER

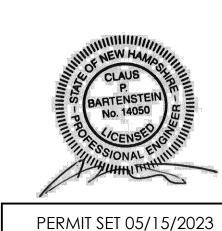
СМ CEILING MOUNTED

TYPICAL

NOT TO SCALE NTS

UNLESS OTHERWISE NOTED

EXISTING, TO REMAIN



KILTON/WELCH

DORMITORIES

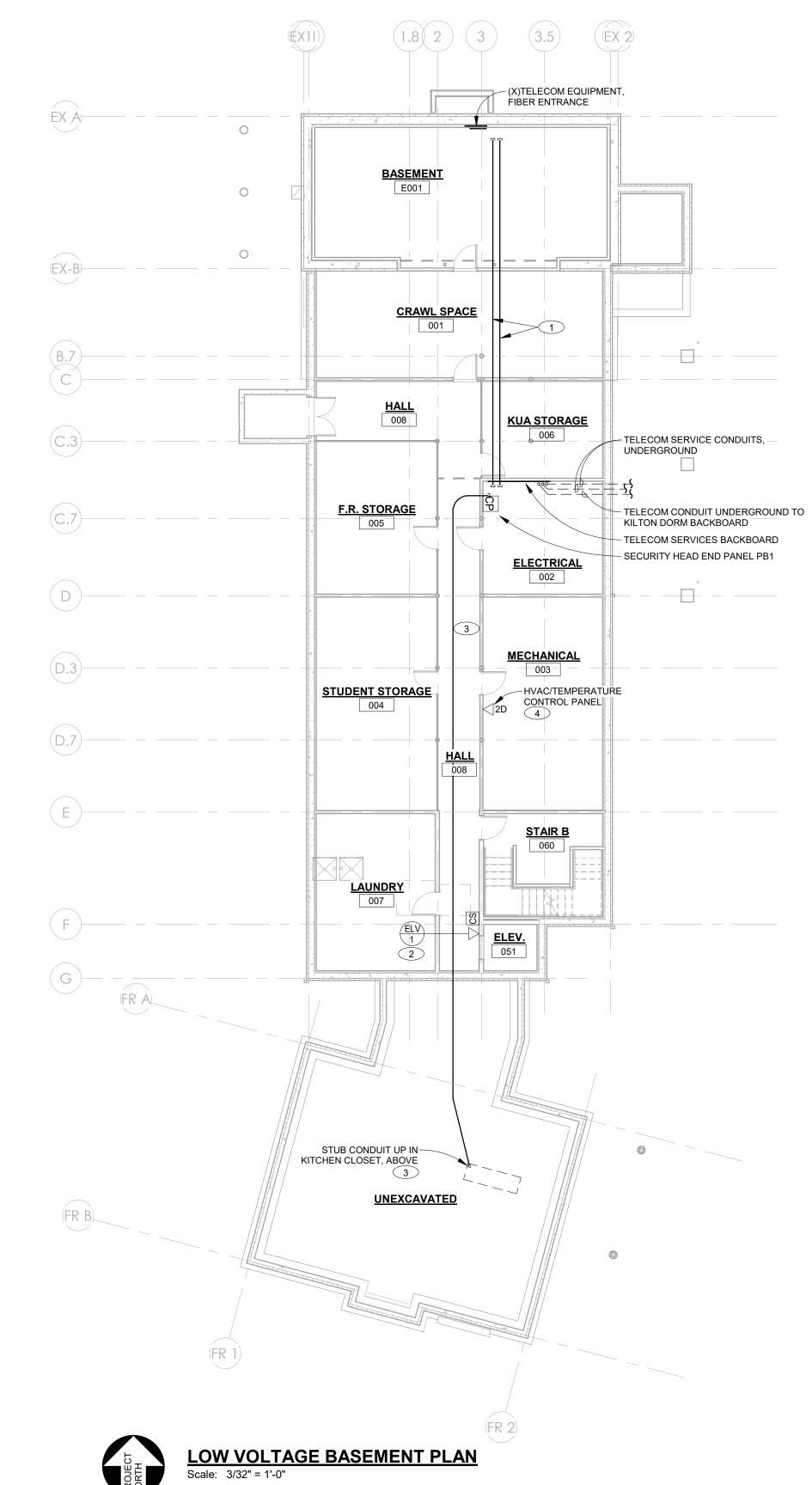
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LOW VOLTAGE NOTES & DIAGRAM





Cable Pull She	et					
Cable Label	Cable Type 🔻	From	End Location	▼ De ▼	Notes	7
WELCH DORMATORY	1					
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.
- 2 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.
- 5 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.

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- 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.



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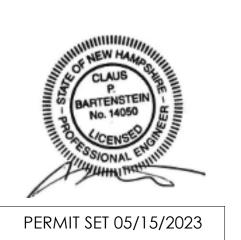
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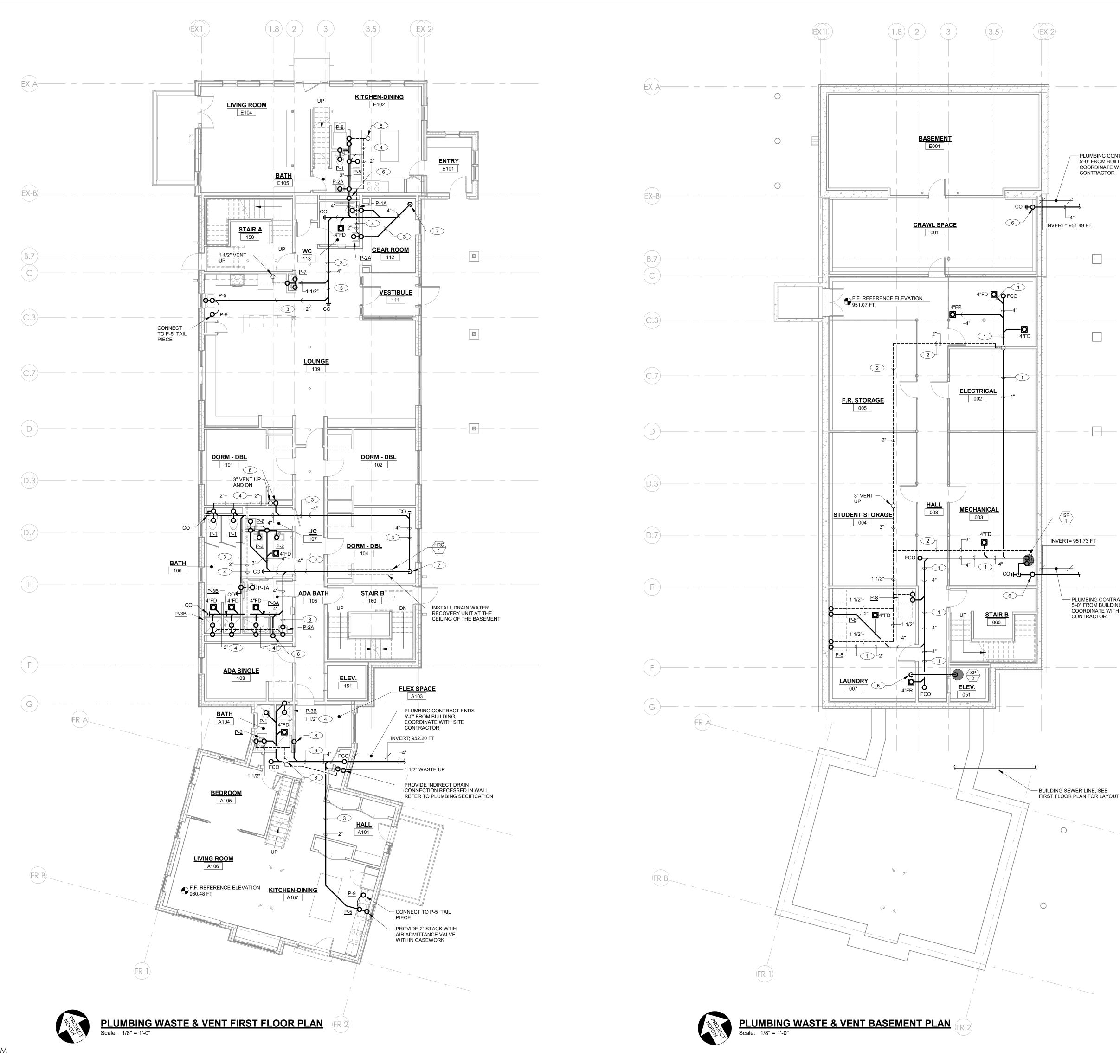


KUA KILTON/WELCH DORMITORIES

Main Street Meriden NH, 03770

WELCH LOW VOLTAGE

LVW5





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— PLUMBING CONTRACT ENDS 5'-0" FROM BUILDING, COORDINATE WITH SITE CONTRACTOR

- PLUMBING CONTRACT ENDS

DRAWING NOTES:

6 PROVIDE 4" WASTE UP. 7 PROVIDE 4" WASTE DOWN.

8 PROVIDE 2" VENT UP.

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.

RUN SANITARY WASTE PIPING BELOW FLOOR, PITCH 1/4" PER LINEAR FOOT MINIMUM IN DIRECTION OF FLOW. COORDINATE ROUTING WITH ALL OTHER TRADES.

RUN SANITARY VENT PIPING ABOVE CEILING, COORDINATE ROUTING WITH ALL OTHER TRADES.

TERMINATE 2" INDIRECT PUMPED WASTE LINE AT FLOOR RECEPTOR, PROVIDE 3" AIR GAP MINIMUM.

5'-0" FROM BUILDING,

CONTRACTOR

COORDINATE WITH SITE

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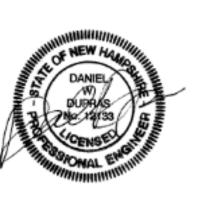
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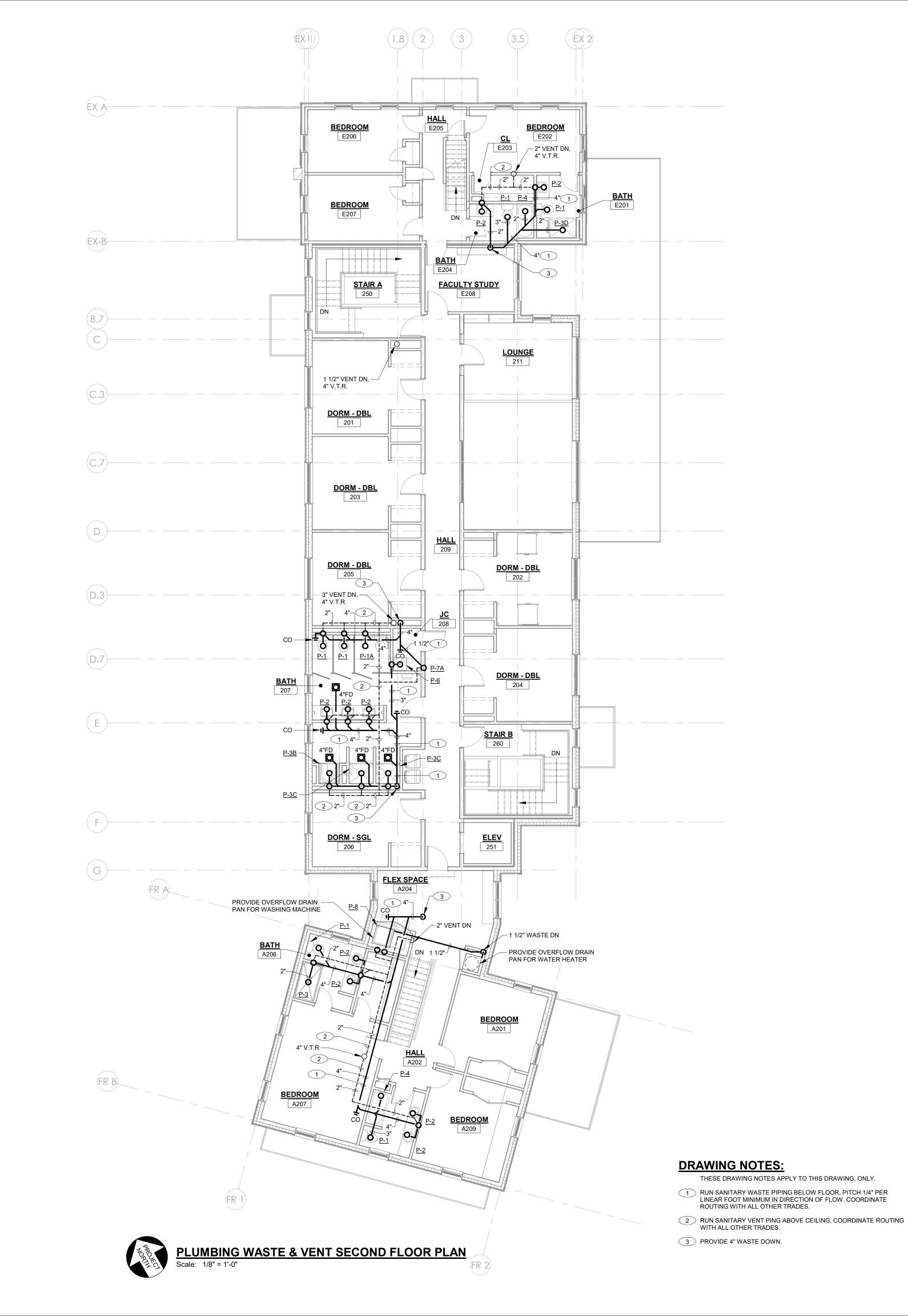
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KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

WELCH BASEMENT AND FIRST FLOOR - WASTE & VENT

PW-1.1





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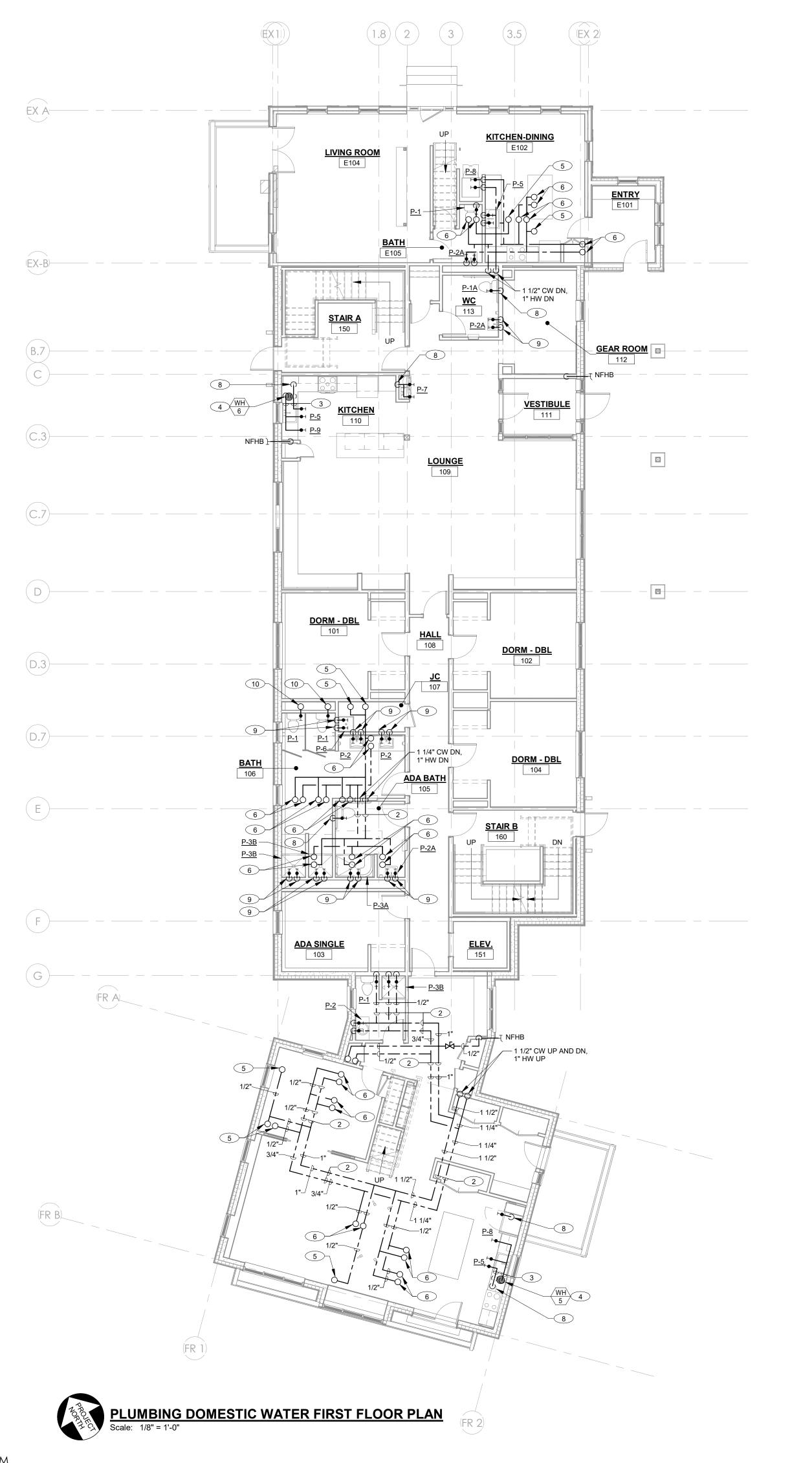
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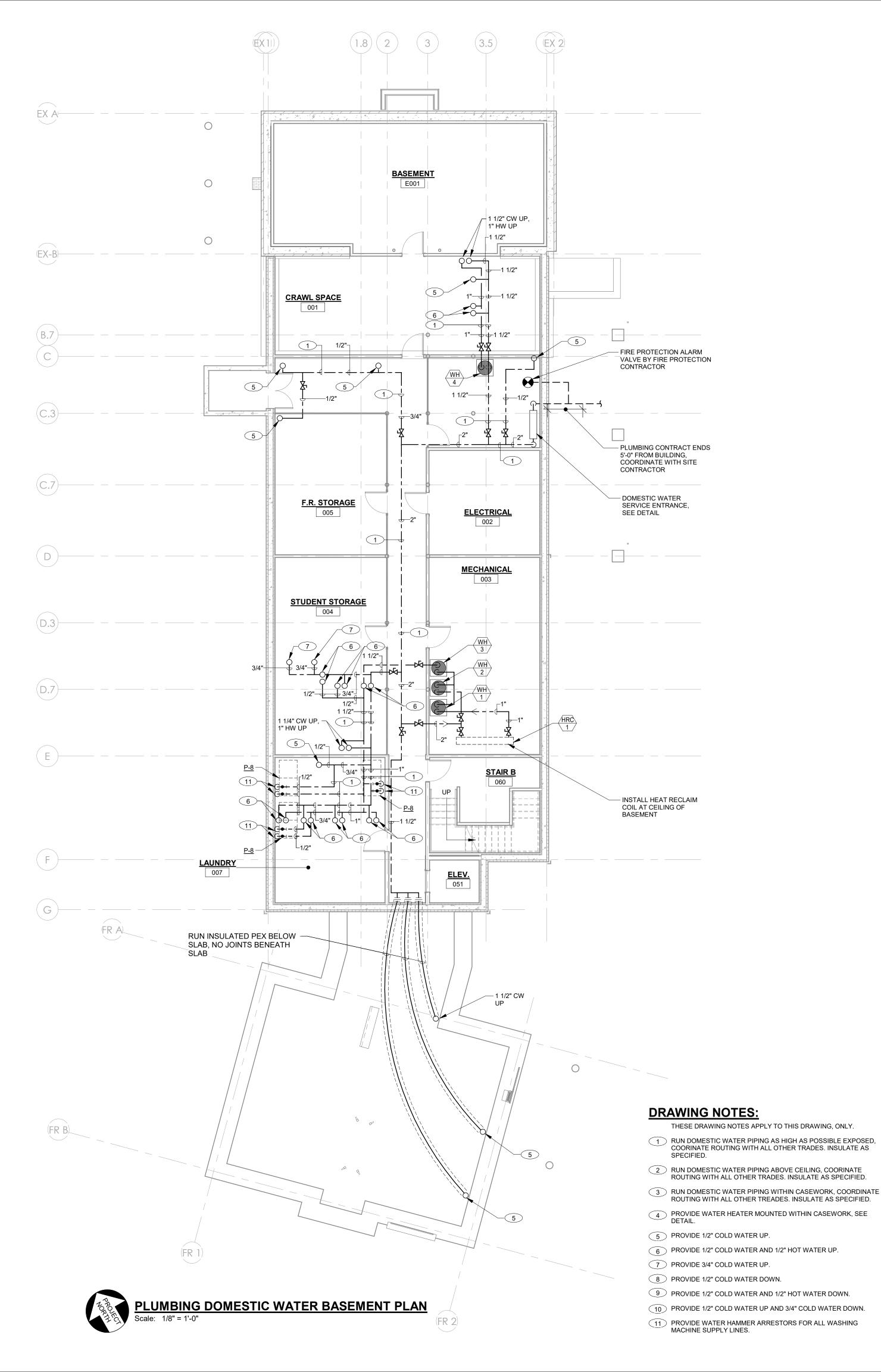
KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

WELCH SECOND
FLOOR - WASTE &
VENT

PW-1.2







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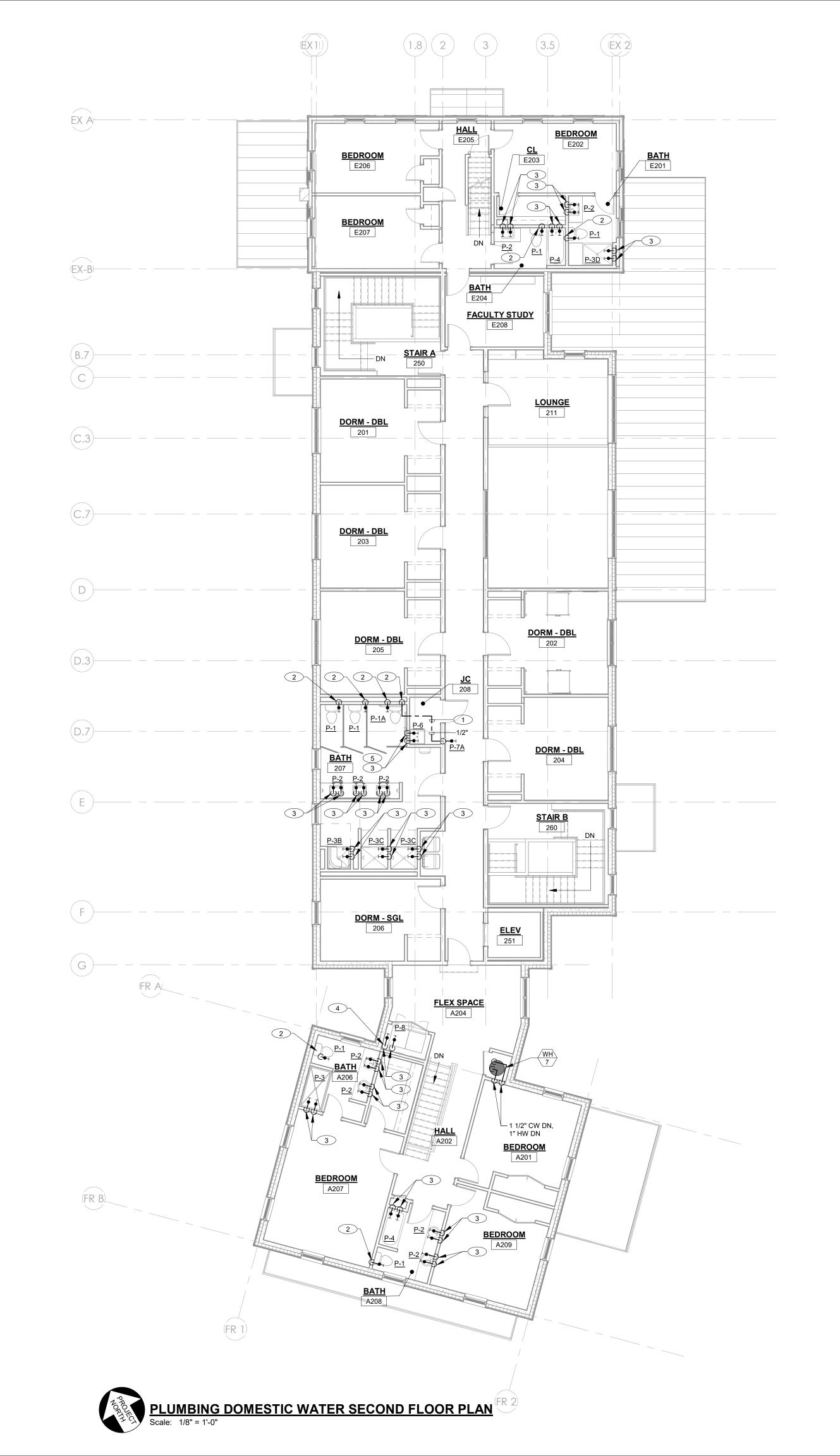
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KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

WELCH BASEMENT AND FIRST FLOOR - DOMESTIC

PW-2.1





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KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

WELCH SECOND FLOOR -DOMESTIC

PW-2.2

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1 RUN DOMESTIC WATER PIPING ABOVE CEILING, COORINATE 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.
- 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 RPZ BACKFLOW PREVENTER ON EACH LINE, TERMINATE WITH HOSE CONNECTION.





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KUA KILTON/WELCH DORMITORIES

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WELCH BASEMENT AND FIRST FLOOR - CONDENSATE

PW-3.1





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KUA KILTON/WELCH DORMITORIES

Main Street Meriden, NH 03770

DRAWING NOTES:

3 PROVIDE 1" CONDENSATE DOWN.

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.

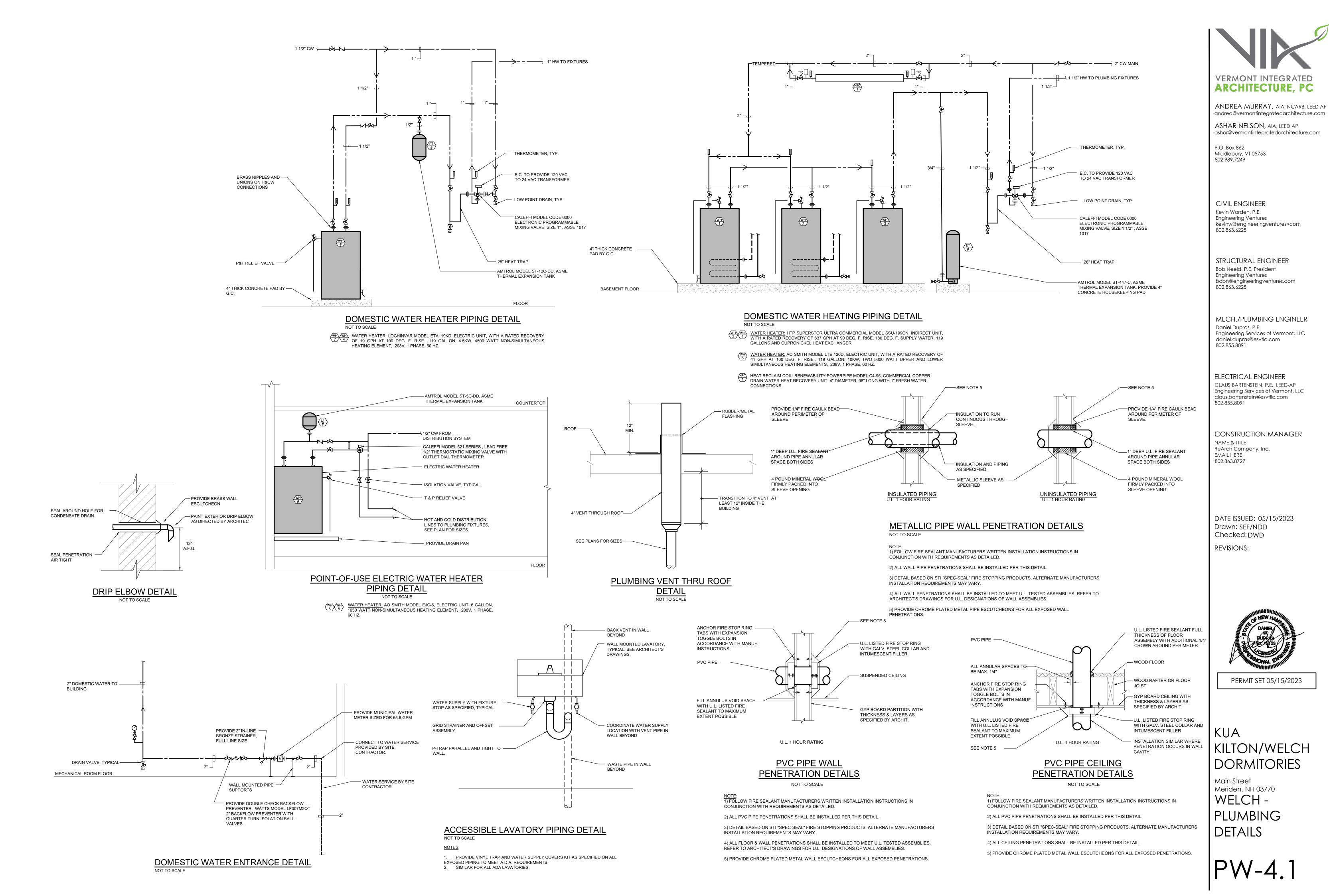
TERMINATE 1 1/2" CONDENSATE PIPING AT SERVICE SINK, PROVIDE INDIRECT DRAIN CONNECTION WITH 3" AIR GAP MINIMUM.

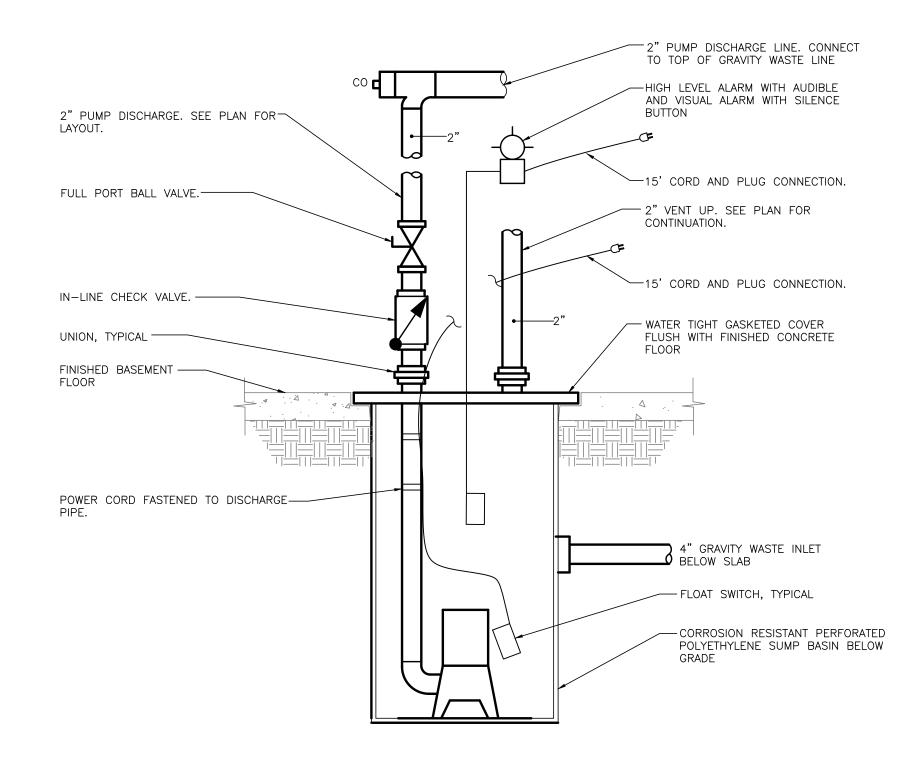
FAN COIL UNIT WITH CONDENSATE PUMP PROVIDED BY MECHANICAL CONTRACTOR, PROVIDE 1" CONDENSATE DRAIN CONNECTION.

5 FAN COIL UNIT PROVIDED BY MECHANICAL CONTRACTOR, PROVIDE 1" CONDENSATE DRAIN CONNECTION.

WELCH SECOND FLOOR -CONDENSATE

PW-3.2





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 LEGEND & ABBREVIATIONS

	SANITARY PIPING	M	BALL VALVE
	VENT PIPING	ያ	FIXTURE STOP
	COLD WATER PIPING	T NFHB	NON-FREEZE HOSE BIBB
	HOT WATER PIPING (110°F)	-र्	DRAIN VALVE
—TEMPERED—	TEMPERED HOT WATER PIPING	Ž	PIPE STRAINER
c	NEW CONDENSATE DRAIN PIPING	22	BACKFLOW PREVENTER, SUBSCRIPT: PRZ = REDUCED PRESSURE ZONE
	FLOW DIRECTION INDICATOR	P	PRESSURE GAUGE
o	PIPE RISER	7	CHECK VALVE
e	PIPE DROP	Q	TEMPERATURE GAUGE
	PIPE UNION	內	THERMOSTATIC MIXING VALVE
FD FD	FLOOR DRAIN	Ō	PRESSURE REDUCING VALVE
FR	FLOOR RECEPTOR	М	WATER METER
→ ı ^{co}	CLEANOUT	#	DRAWING NOTE TAG
─ I, ^{wco}	WALL CLEANOUT	<u>P-#</u>	PLUMBING FIXTURE TAG
⊸o FCO	FLOOR CLEANOUT	WH #	DOMESTIC WATER HEATER TAG
HRC #	DRAIN PIPE HEAT RECLAIM COIL TAG	V.T.R.	VENT THROUGH ROOF

LUIVI	BING FIXTURE CONN	IECTIO	IN SCHE	DULE				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 FOUTAIN	-	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" HIG 2" STANDPIPE
P-9	DISHWASHER	-	1 "	-	-	1/2"	I.D.	PIPE TO SINK TAILPIECE



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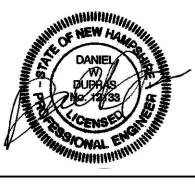
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DATE ISSUED: 05/15/2023 Drawn: SEF/NDD Checked:DWD REVISIONS:



PERMIT SET 05/15/2023

KUA KILTON/WELCH DORMITORIES

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