

RELOCATE THE SHED AS SHOWN ON A-1; HVAC SUBCONTRACTOR TO PUMP DOWN AND REMOVE SHED'S SINGLE ZONE HEAT PUMP SYSTEM;

REMOVE EXISTING FENCE. REMOVE EXISTING DECKS ON THE NORTH (PARKING) SIDE;

EXCAVATE PERIMETER AND INSTALL NEW PERIMETER DRAINAGE AROUND EXISTING FOUNDATION AS NEEDED:

REMOVE EXISTING SIDING AND ROOFING; REMOVE EXISTING EAVE OVERHANGS FOR "CHAIN SAW RETROFIT"; COVER EXISTING ROOF WITH MEMBRANE ICE AND WATER SHIELD; SEE DETAIL A-9;

EXCAVATE AND BUILD ADDITIONS ON THE WEST AND NORTH SIDES TO CONSTRUCT A NEW ENTRY, MUDROOMS, AND A MECHANICAL / STORAGE ROOMS FOR EACH UNIT; DRAWINGS A-5, A-6;

DEMOLISH EXISTING INTERIOR LAUNDRY ROOM AND ADJACENT CLOSETS AND CONSTRUCT A NEW BATHROOM FOR EACH UNIT; SEE A-6;

INSTALL AN EXTERIOR ENERGY RETROFIT, INCLUDING NEW EXTERIOR POLYISO BOARD INSULATION FOR EXISTING AND NEW WALLS AND ROOF. NEW CLOSED-CELL FOAM INSULATION FOR EXISTING ROOF CAVITIES AND ATTIC END WALLS; NEW CLOSED-CELL FOAM INSULATION FOR ADDITIONS; NEW CLOSED-CELL FOAM INSULATION FOR EXISTING AND NEW CRAWL SPACE WALLS; MINIMUM R VALUES LIST, DRAWING A-2. DETAILS, DRAWING A-8.

INSTALL NEW SIDING SMARTSIDE "BOARD AND BATTEN"; REPLACE ALL EXISTING WNDOWS; INSTALL NEW WINDOWS FOR EXISTING BATHROOMS. INSTALL NEW SHINGLE ROOFING; INSTALL "SOLADECK" FOR FUTURE SOLAR PV SYSTEM.

REMOVE THE OIL-FIRED FORCED HOT WATER SYSTEM, OIL TANK AND FINNED TUBE RADIATION, DRAWING A-3. ADD A DUCTED HEAT PUMP SYSTEM WITH SUPPLEMENTARY ELECTRIC HEATING FOR EACH UNIT AS ITS PRIMARY HEAT:

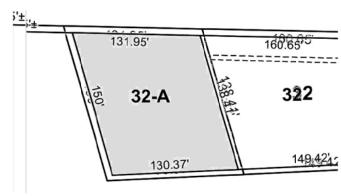
REMOVE THE "LOWBOY" DOMESTIC HOT WATER HEATERS AND INSTALL A HEAT PUMP DOMESTIC HOT WATER HEATER FOR EACH UNIT, DRAWINGS P-1, P-2.

INSTALL AN ENERGY RECOVERY VENTILATOR FOR EACH UNIT. MONITOR POST CONSTRUCTION AIR QUALITY. NOTE: PRE-RETROFIT AIR LEAKAGE RATE WAS MEASURED AT 3.7 ACH50 AND THE. EXISTING AIR QUALITY WAS POOR.

INSTALL NEW AND REPLACEMENT LIGHTING FOR EACH UNIT; REPLACE RECEPTACLES WITH TAMPER-PROOF.

INSTALL SITE LIGHTING;

SCOPE OF WORK OVERVIEW



LOT 32-A, BELFAST TAX MAP 14

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ENERGY RETROFIT AND ELECTRIFICATION

358 High Street Belfast, ME 04915

SCOPE OF WORK SITE PLAN

07-15-2024

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OUTSIDE DESIGN CONDITIONS								
SUMMER	WINTER	NOTES						
90 °F DBT / 70 °F WBT	-2 °F DBT	MODIFIED BRUNSWICK NAS						
INSIDE I	DESIGN	CONDITIONS						

WINTER SUMMER

72 °F

74 °F

NOTES

AREAS

ALL OCCUPIED AREAS

	HEATING COOLING AND VENTILATION LOADS										
SPACE	COND. AREA (SF)	HVAC UNIT	HEATING LOAD (MBH)	TOTAL COOLING LOAD (MBH / TONS)	NOTES						
UNIT 1	1,805	HPIU-1	12.6	9.6 / 0.8	INCLUDES VENTILATION; INCLUDES CRAWL SPACE AND STORAGE RM						
UNIT 2	1,805	HPIU-2	12.2	8.4 / 0.7	INCLUDES VENTILATION; INCLUDES CRAWL SPACE AND STORAGE RM						
			24.8	14.6 / 1.6	SEE DRWG. H-1						

THERMAL TRANSMISSION VALUES									
SURFACE	STATUS	R TOTAL	Uoverall (BTUh/ °F-SF)	DESCRIPTION					
WALL ABOVE-GRADE	RETROFIT	33.0	0.030	EXISTING 2x6 WITH FIBERGLASS BATT CAVITY INSULATION; ADD 2" OF POLYISO EXTERIOR BOARD, CONTINUOUS					
WALL ABOVE-GRADE	NEW	34.0	0.030	NEW 2x6, 3" ccSPF CAVITY INSULATION, 2" POLYISO EXTERIOR BOARD, CONTINUOUS					
WALL CRAWLSPACE	RETROFIT	18.9	0.053	EXISTING 1" XPS; ADD 2x4 INTERIOR WALL & 2" CLOSED CELL SPRAY FOAM, SEE DRAWINGS A-9, A-10					
WALL BELOW-GRADE	NEW	20.4	0.049	2x4 INTERIOR WALL WITH 1" CONTINUOUS AND 2" CAVITY CLOSED CELL SPRAY FOAM					
ROOF SYSTEM	RETROFIT	70.0	0.014	EXISTING 12" FG BATT IN ATTIC FLOOR CAVITIES; ADD 2" OF CCSPF IN TRUSS CEILING CAVITIES AND 4" POLYISO EXTERIOR BOARD CONTINUOUS, SEE SECTIONS DRAWINGS A-9, A-10					
ROOF SYSTEM	NEW	60.0	0.017	4" POLYISO EXTERIOR BOARD ON ROOF DECK, CONTINUOUS, AND 5" OF ccSPF CAVITY INSULATION					
WINDOW	NEW	5.0	0.20	MATHEWS BROTHERS SANFORD HILLS, SEE SCHEDULE					
FLOOR - CRAWL SPACE AND NEW	NEW / RETROFIT		0.02	VAPOR BARRIER MAT (Delta-FL), 1" XPS INSULATION, $\frac{5}{8}$ " SUBFLOOR					

	WINDOW SCHEDULE									
ID	MANUF / PRODUCT (or equal)	GLAZING - TRIPLE PANE	TYPE	UNIT WIDTH x HEIGHT (in. x in.)	UNIT ROUGH OPENING (in. x in.)	Uvalue Overall Minimum NFRC (BTUh/SF °F)	VLT / SHGC	EGRESS?	INSECT SCREEN	REMARKS
А	MATHEWS BROTHERS SANFORD HILLS	LE / Crl / LE Argon 1 ½"	DH	41 x 56	41 ½ x 56 ½	0.19	0.40 / 0.24	Yes	Yes	TRIPLE-GLAZED, LOW-e/Clear/Low-e (Argon) WHITE
B2	MATHEWS BROTHERS SANFORD HILLS	LE / Crl / LE Argon 1 ½"	DH - Mu ll ed	40 - 2 x 56	80 ½ x 56 ½	0.19	0.40 / 0.24	No	Yes	TRIPLE-GLAZED, LOW-e/Clear/Low-e (Argon) WHITE
С	MATHEWS BROTHERS SANFORD HILLS	LE / Crl / LE Argon 1 ½"	DH	29 x 36	29 ½ x 36 ½	0.19	0.40 / 0.24	No	Yes	TRIPLE-GLAZED, LOW-e/Clear/Low-e (Argon) WHITE
D	MATHEWS BROTHERS SANFORD HILLS	LE / Crl / LE Argon 1 ½"	Awning	28 x 18	28 ½ x 18 ½	0.18	0.41 / 0.25	No	Yes	TRIPLE-GLAZED, LOW-e/Clear/Low-e (Argon) WHITE
Е	MATHEWS BROTHERS SANFORD HILLS	LE / Crl / LE Argon 1 ½"	Awning	28 x 12	28 ½ x 12 ½	0.18	0.41 / 0.25	No	Yes	TRIPLE-GLAZED, LOW-e/Clear/Low-e (Argon) WHITE

	DOOR SCHEDULE									
ID	MANUF	MODEL, OR EQUAL	TYPE	HANDING	REMARKS					
1	JELD-WEN	CRAFTSMAN SPC-866SD3 BLC	3'0" x 6'8" Exterlor		THREE LIGHT, LOW-E GLAZING, BROSCO 2013 P.65					
2	JELD-WEN	CRAFTSMAN SPC-866SD3 BLC	3'0" x 6'8" Exterlor		THREE LIGHT, LOW-E GLAZING, BROSCO 2013 P.65					
3		REUSE EXISTING SOUTH EXTERIOR	3'0" x 6'8" Exterlor							
4	JELD-WEN	SMOOTH-PRO SP-648SWY SELWYN	3'0" x 6'8" Exterior		QUARTER LIGHT, DECORATIVE TO MATCH EXISTING; BROSCO 2013 P.123					
5	JELD-WEN	SMOOTH-PRO CRAFTSMAN SPC-866LE	3'0" x 6'8" Exterior		SINGLE LIGHT, LOW-E GLAZING; BROSCO 2013 P.65					
6	JELD-WEN	SMOOTH-PRO CRAFTSMAN SPC-866LE	3'0" x 6'8" Exterior		SINGLE LIGHT, LOW-E GLAZING; BROSCO 2013 P.65					
7		INTERIOR DOOR TO MATCH EXISTING	2'10" x 6'8" Interlor		REMOVE EXISTING 3'0" ENTRY DOOR					
8		INTERIOR DOOR TO MATCH EXISTING	2'10" x 6'8" Interior		REMOVE EXISTING 3'0" ENTRY DOOR					
9										
10		_								
11		·								

FINISH SCHEDULE

UNIT	ROOM NAME	USE	STATUS	GROSS AREA (SF)	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	CEILING	FLOOR	PAINT	NOTES
1	1-1 INCLUDING CLOSETS	BEDROOM	EXISTING	140	1/2-GWB	1/2-GWB	1/2-GWB	1/2-GWB	5/8-XGWB	5/8" HARDWOOD		PATCH WALLS; ENCLOSE DUCT IN CLOSET 1-1
1	1-1 INCLUDING CLOSETS	BEDROOM	EXISTING	120	1/2-GWB	1/2-GWB	1/2-GWB	1/2-GWB	5/8-XGWB	5/8" HARDWOOD		PATCH WALLS; ENCLOSE DUCT IN CLOSET 1-2; ELIMINATE ATTIC HATCH
1	BATH 1-1	FULL BATH	EXISTING	45	1/2-GWB	1/2-GWB	1/2-GWB	1/2-GWB	5/8-XGWB	3/8" TILE		PATCH CEILING; REFINISH WALL-CEILING EDGES
1	HALL 1	HALL	EXISTING	20	1/2-GWB	1/2-GWB	1/2-GWB	1/2-GWB	5/8-XGWB	5/8" HARDWOOD		REFRAME CLOSET TO NO DOOR; ENCLOSE DUCT
1	LIVING 1	LIVING	EXISTING	180	1/2-GWB	1/2-GWB	1/2-GWB	PWALL #2A	5/8-XGWB	5/8" HARDWOOD		SEE WALL DETAILS FOR WEST PARTY WALLS
1	KITCHEN 1	KITCHEN	EXISTING	180	1/2-GWB	1/2-GWB	1/2-GWB	PWALL #1	5/8-XGWB	3/8" TILE		
1	MUDROOM 1	ENTRY / LAUNDRY	NEW	30	1/2-GWB	1/2-GWB	1/2-GWB	PWALL #1	5/8-XGWB	3/8" TILE		
1	REAR ENTRY 1	ENTRY	EXISTING	80	1/2-GWB	1/2-GWB	1/2-GWB	PWALL #1	5/8-XGWB	3/8" TILE		
1	BATH 1-2	HALF BATH	NEW	30	PWALL #1	1/2-GWB	PWALL #3	PWALL #2A	5/8-XGWB	3/8" TILE		RESILIENT CHANNEL ON WEST (UNIT 2) SIDE OF PARTY WALL; EXISTING 5/8" CEILING
1	MECH/ STORAGE 1	STORAGE	NEW	130	1/2-GWB	PWALL #3	PWALL #1	1/2-GWB	1/2-GWB	SUBFLOOR	GRAY FLOOR PAINT	
2	2-1 INCLUDING CLOSETS	BEDROOM	EXISTING	140	1/2-GWB	1/2-GWB	1/2-GWB	1/2-GWB	5/8-XGWB	5/8" HARDWOOD		
2	2-1 INCLUDING CLOSETS	BEDROOM	EXISTING	120	1/2-GWB	1/2-GWB	1/2-GWB	1/2-GWB	5/8-XGWB	5/8" HARDWOOD		
2	BATH 2-1	FULL BATH	EXISTING	45	1/2-GWB	1/2-GWB	1/2-GWB	1/2-GWB	5/8-XGWB	3/8" TILE		PATCH CEILING; REFINISH WALL-CEILING EDGES
2	HALL 2	HALL	EXISTING	20	1/2-GWB	1/2-GWB	1/2-GWB	1/2-GWB	5/8-XGWB	5/8" HARDWOOD		
2	LIVING 2	LIVING	EXISTING	180	1/2-GWB	PWALL #2A	1/2-GWB	1/2-GWB	5/8-XGWB	5/8" HARDWOOD		
2	KITCHEN 2	KITCHEN	EXISTING	180	1/2-GWB	PWALL #1	1/2-GWB	1/2-GWB	5/8-XGWB	3/8" TILE		
2	MUDROOM 2	ENTRY / LAUNDRY	NEW	30	1/2-GWB	PWALL #1	1/2-GWB	1/2-GWB	5/8-XGWB	3/8" TILE		
2	REAR ENTRY 2	ENTRY	EXISTING	80	1/2-GWB	PWALL #1	1/2-GWB	1/2-GWB	5/8-XGWB	3/8" TILE		
2	BATH 2-2	HALF BATH	NEW	30	PWALL #3	PWALL #2A	PWALL #1	1/2-GWB	5/8-XGWB	3/8" TILE		RESILIENT CHANNEL ON EAST (UNIT 1) SIDE OF PARTY WALL; EXISTING 5/8" CEILING
2	MECH/ STORAGE 2	STORAGE	NEW	130	PWALL #1	1/2-GWB	1/2-GWB	1/2-GWB	1/2-GWB	SUBFLOOR	GRAY FLOOR PAINT	
ATTIC						PWALL #2		PWALL #2				
CRAWL SPACE						PWALL #2		PWALL #2				

FINISH SCHEDULE LEGEND

REFERENCE	DESCRIPTION
	1/2" DRYWALL, STANDARD
	5/8" DRYWALL, "TYPE X", 1 HOUR FIRE RATED
DRAWING A-9	TWO (2) LAYERS OF TYPE-X DRYWALL (5/8" 1 HR FIRE-RATED) ON EACH SIDE OF WALL
DRAWING A-9	NEW STAGGERED STUD WALL: RESILIENT CHANNEL ON ONE SIDE OF WALL, TWO (2) LAYERS OF TYPE-X DRYWALL (5/8" 1 HR FIRE-RATED) ON EACH SIDE OF WALL
DRAWING A-9	NEW STAGGERED STUD WALL: SAME AS 2A WITHOUT RESILIENT CHANNEL
	EXISTING WALL: RESILIENT CHANNEL, AND TWO LAYERS OF 5/8-XGWB ON ONE SIDE
	DRAWING A-9 DRAWING A-9

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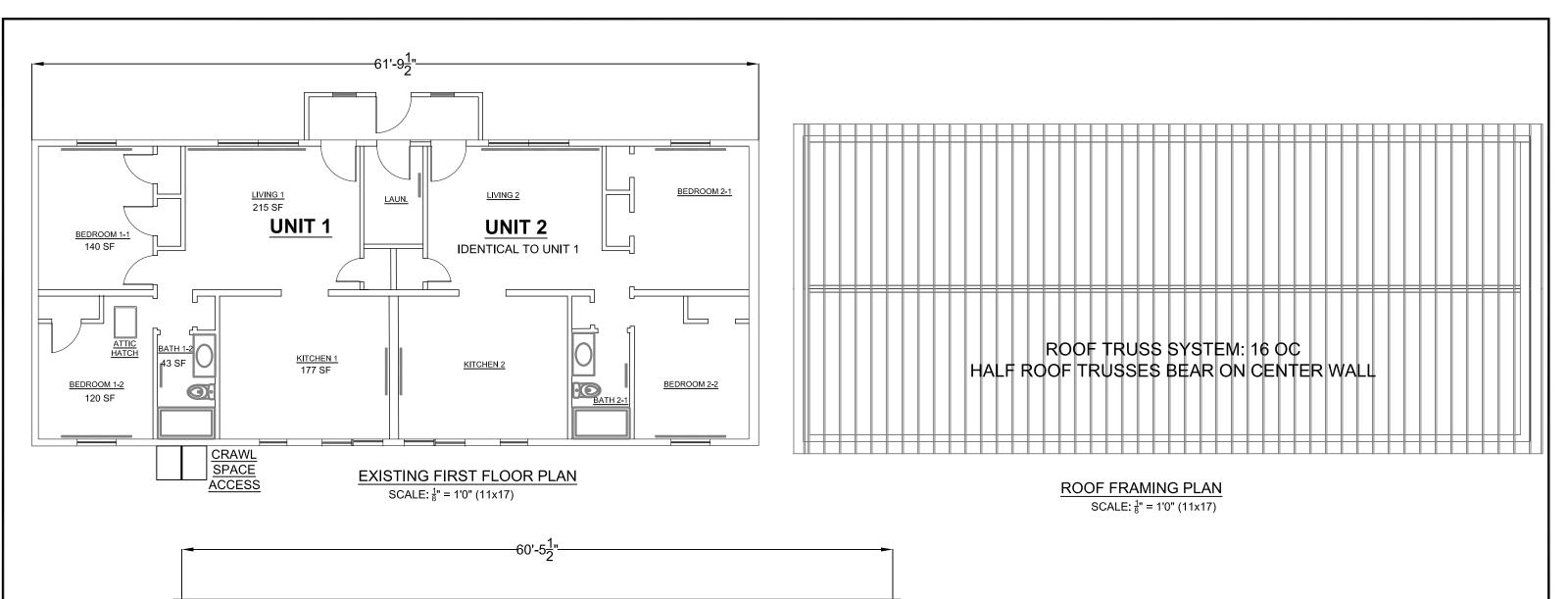
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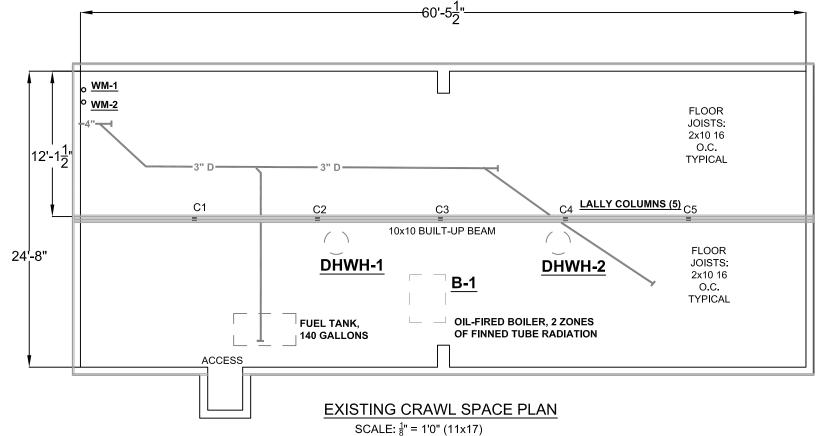
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SCHEDULES INSULATION

09-11-2024

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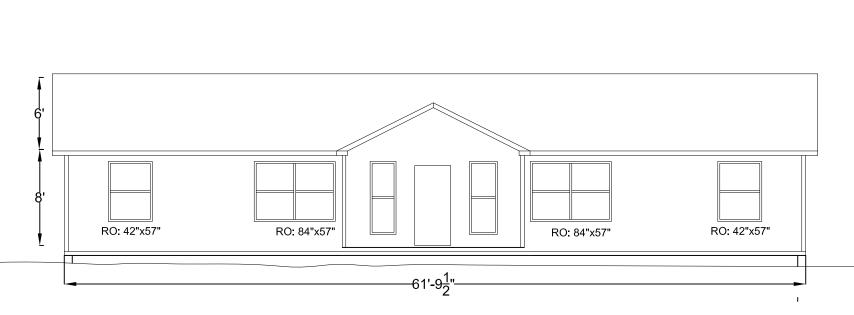
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> > **EXISTING 1**

04-16-2024

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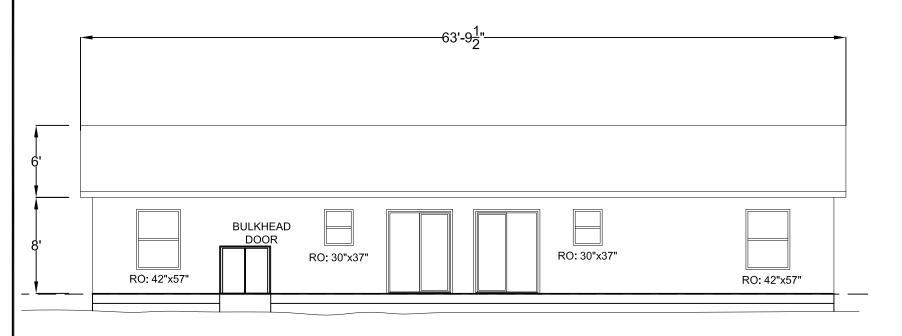
26'

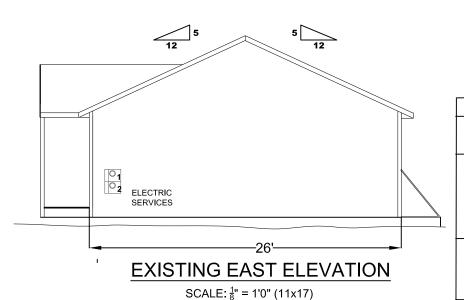
EXISTING SOUTH ELEVATION

SCALE: $\frac{1}{8}$ " = 1'0" (11x17)

EXISTING WEST ELEVATION

SCALE: $\frac{1}{8}$ " = 1'0" (11x17)





EXISTING NORTH ELEVATION

SCALE: $\frac{1}{8}$ " = 1'0" (11x17)

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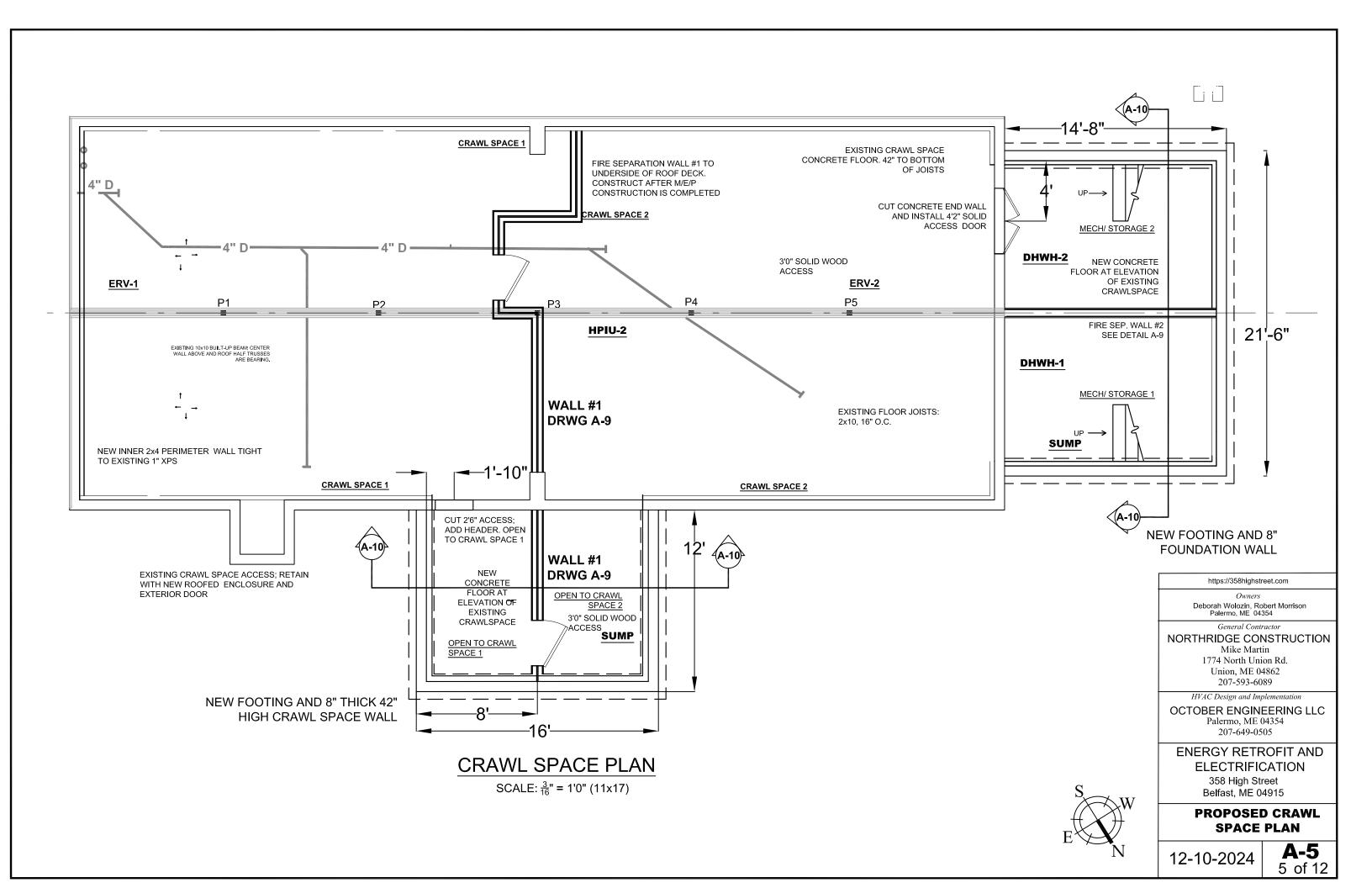
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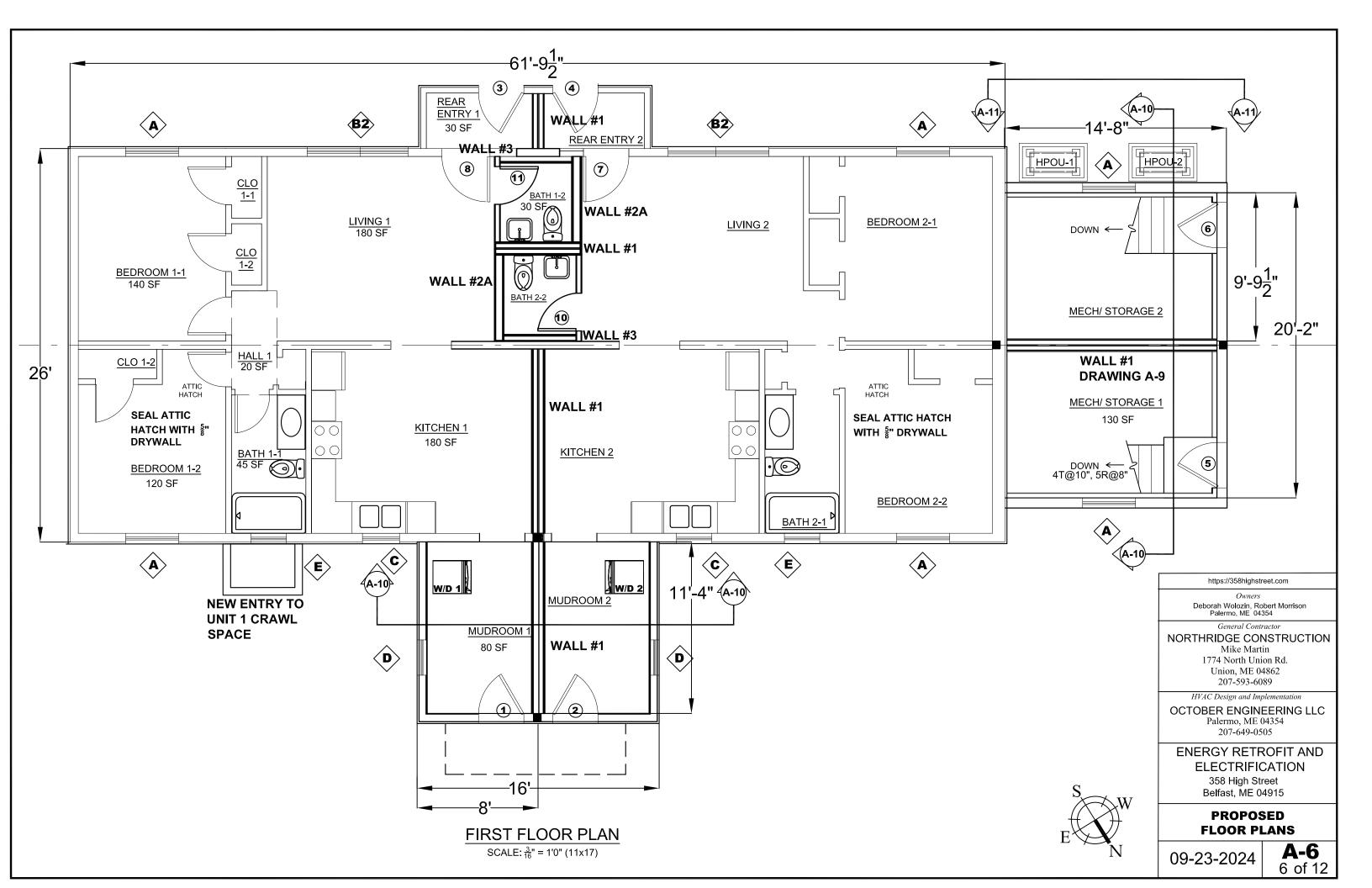
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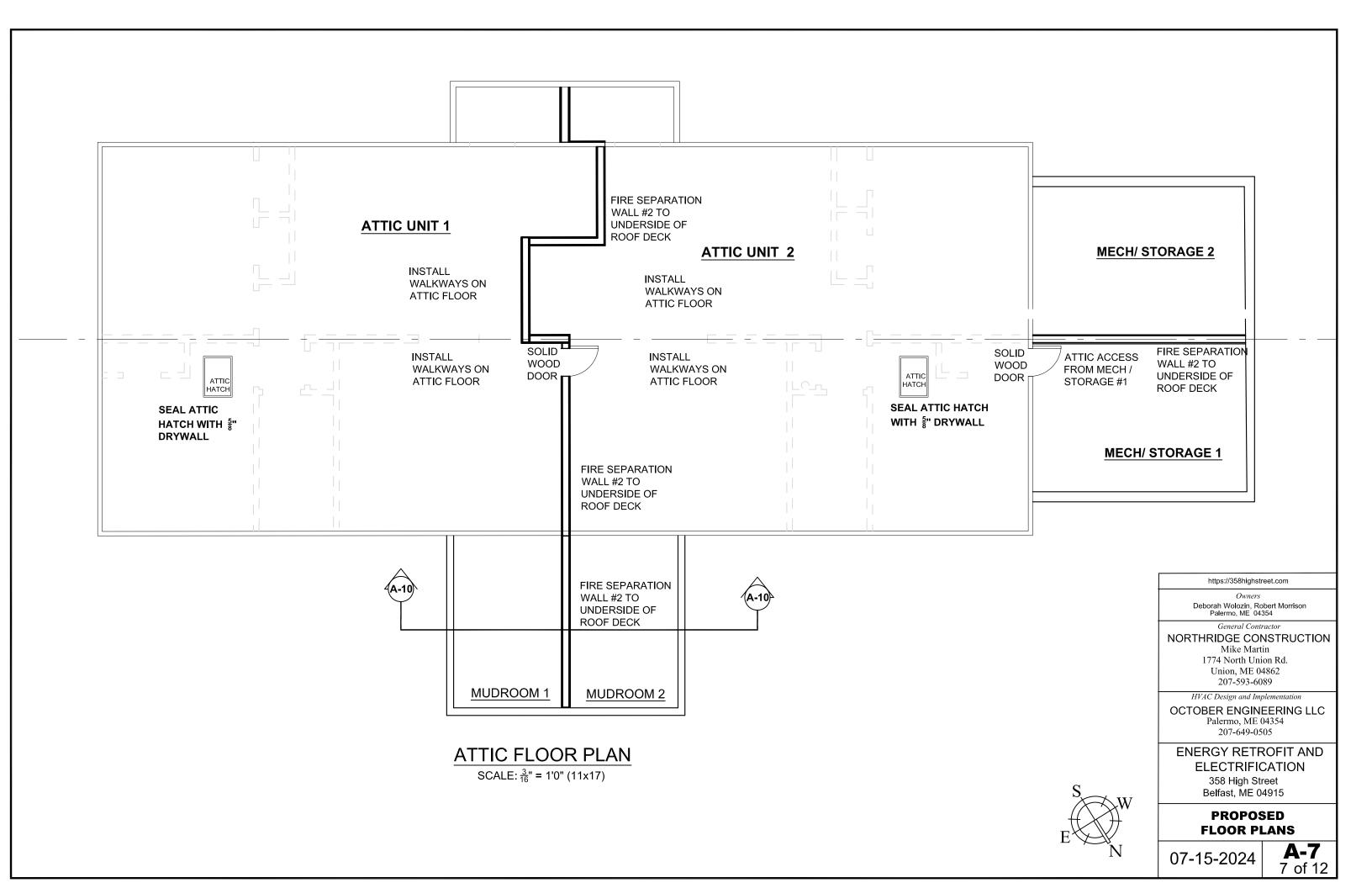
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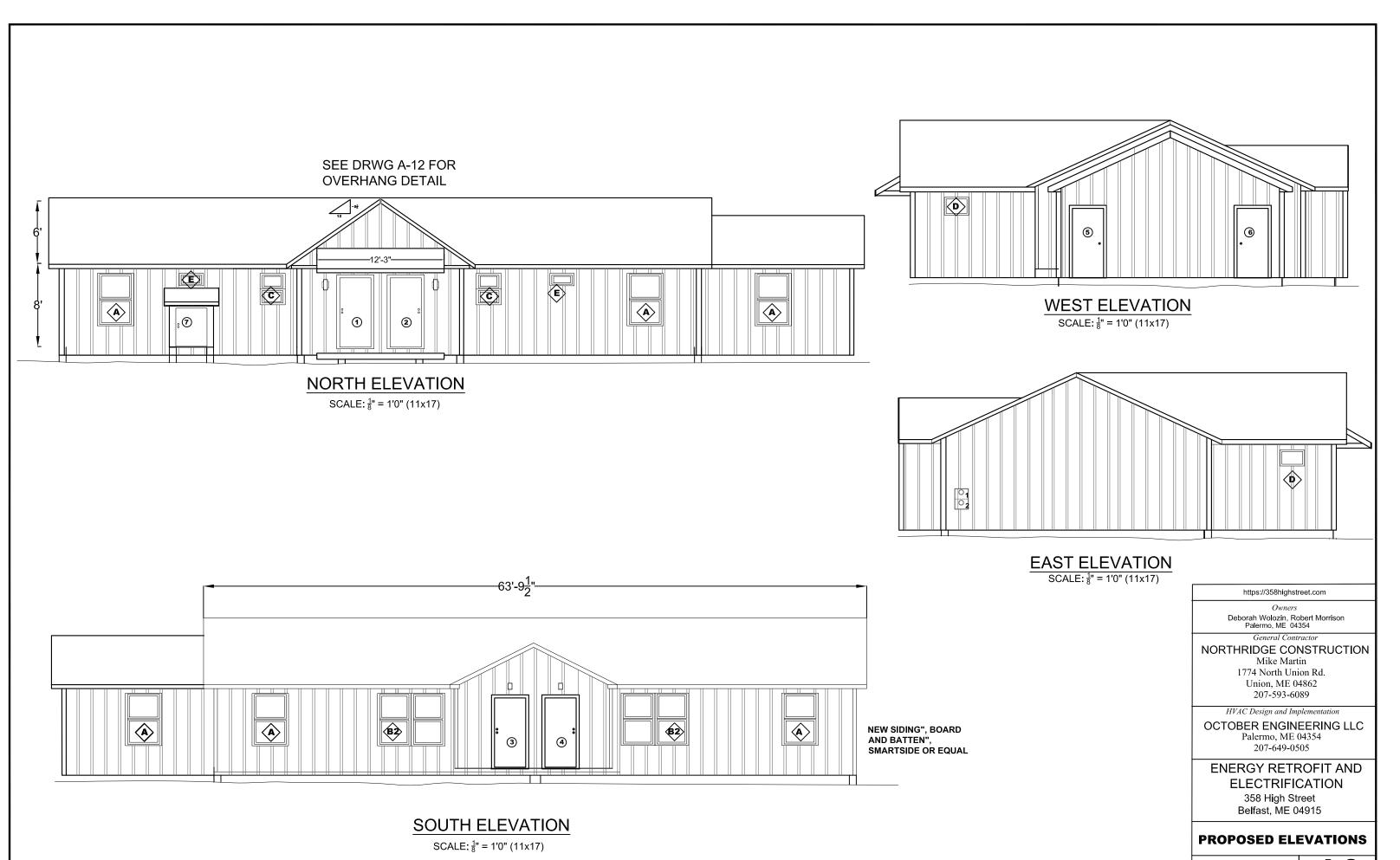
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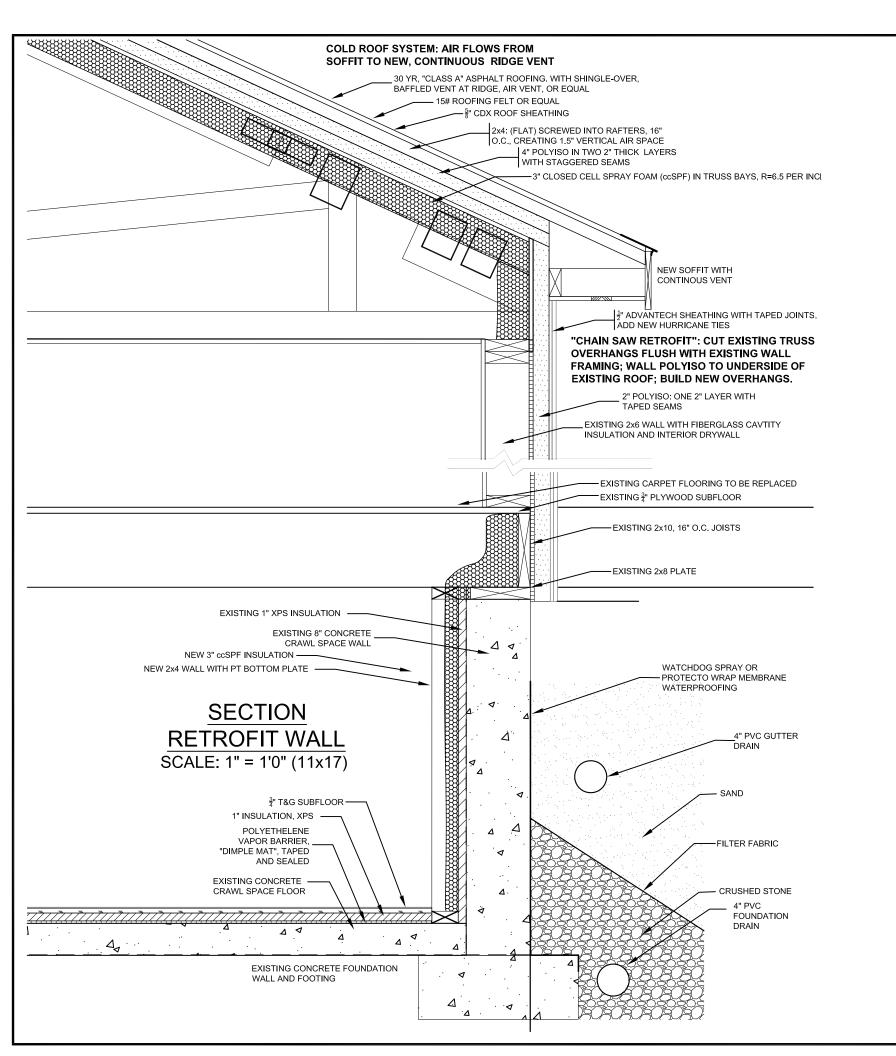


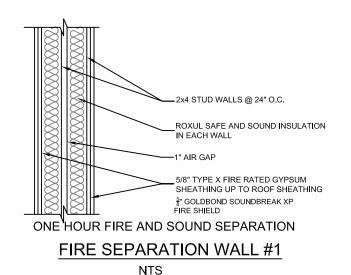


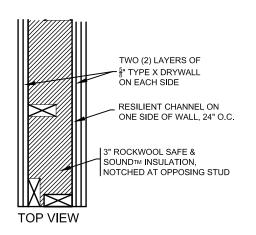


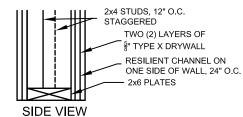


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ROCKWOOL ASSEMBLY IWS-354

FIRE SEPARATION WALL #2A

SCALE: 1" = 1'0" (11x17)

FIRE SEPARATION WALL #2B: SAME AS 2A WITHOUT CHANNEL

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PROPOSED SECTIONS

08-18-2024

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