Use figured dimensions only. 15 October 2023

Do not scale.

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Job Number: 2023xx COVER SHEET & INFORMATION

A1.0



Rendering - The Abbot Module A



Rendering - The Abbot Module B

Assembly type	Standard	Description
wall assemblies	R	_
fenestration/openings	U	_
roof/ceiling assemblies	R	
floors over conditioned spaces	R	
slab on grade	R	
crawl spaces	R	
lower level walls: continuous insulation	R	
lower level walls: cavity insulation	R	

PROJECT DATA

Project Name: Prototype Cottage Residence Project Address:

2015 Michigan Residential Code Michigan Barrier Free Codes

R302.1(1) Exterior Walls

Exter	or Wall Element	Minimum Fire Resistance Rating	Minimum Fire Resistance Separation	
Walls	Fire-resistance rated	1-hour tested in accordance with STM E199 or URL 263 with exposure from both sides	<5 feet	
	Not rated	0 hours	=> 5 feet	
	Not allowed	N/A	<2 feet	
Projections	Fire-resistance rated	1 hour on the underside	> 2 feet to < 5 feet	
	Not rated	0 hours	> 5 feet	
Oii-	Not allowed	N/A	< 3 feet	
Openings in	25% of maximum wall area	0 hours	3 feet	
walls	Unlimited	0 hours	5 feet	
Penetrations	All	Comply with Section R302.4	<3 feet	
		None required	3 foot	

R302.2 Townhouses

Common wall separating townhouses shall be assigned a fire-resistance rating in accordance with Section R302.2

R302.3 Two-family dwellings

Dwelling units in two-family dwellings shall be separated from each other by wall and floor assemblies having not less than a 1-hour fire-resistance rating.

R302.4 Dwelling Unit Penetrations

Penetrations of wall or floor-ceiling assemblies required to be fire-resistance rated in accordance with Section R302.2 or R302.3 shall be protected in accordance with this

R302.5 Dwelling-garage opening and penetration protection Openings and penetrations through the walls or ceilings separating the dwelling from the garage shall be in accordance with Sections R302.5.1 through R302.5.3.

R302.6 Dwelling-garage fire separation

The garage shall be separated as required by Table R302.6. Openings in garage walls shall comply with Section R302.5. Attachment of gypsum board shall comply with Table R702.3.5. The wall separation provisions of Table R302.6 shall not apply to garage walls that are perpendicular to the adjacent dwelling

R302.6 Dwelling Garage Separation

SEPARATION	MATERIAL
From the residence and attic	Not less than 1/2-inch gypsum board or equivalent applied to the garage side
From habitable rooms above the garage	Not less than 5/8-inch Type X gypsum board or equivalent
Structure(s) supporting floor/ceiling assemblies used for separation required by this section	Not less than 1/2-inch gypsum board or equivalent
Garages located less than 3 feet from a dwelling unit on the same lot	Not less than 1/2-inch gypsum board or equivalent applied to the interior side of exterior walls that are within this area

302.7 Under-stair protection.

Enclosed accessible space under stairs shall have walls, under-stair surface and any soffits protected on the enclosed side with 1/2-inch gypsum board.

R302.11 Fireblocking.

In combustible construction, fireblocking shall be provided to cut off both vertical and horizontal concealed draft openings and to form an effective fire barrier between stories, and between a top story and the roof space.

R302.12 Draftstopping.

In combustible construction where there is usable space both above and below the concealed space of a floor-ceiling assembly, draftstops shall be installed so that the area of the concealed space does not exceed 1,000 square feet. Draftstopping shall divide the concealed space into approximately equal areas. Where the assembly is enclosed by a floor membrane above and a ceiling membrane below, draftstopping shall be provided in floor-ceiling assemblies under the following circumstances:

- 1.Ceiling is suspended under the floor framing.
- 2.Floor framing is constructed of truss-type open-web or perforated members.

R302.13 Fire protection of floors.

Floor assemblies that are not required elsewhere in this code to be fire-resistance rated, shall be provided with a 1/2-inch gypsum wall-board membrane, 5/8-inch wood structural panel membrane, or equivalent on the underside of the floor framing member. Penetrations or openings for ducts, vents, electrical outlets, lighting, devices, luminaires, wires, speakers, drainage, piping and similar openings or penetrations shall be permitted.

ANY PENETRATION IN THE RATED FLOOR/CEILING SHALL BE FIRE RATED.

Shop Drawings for ROOF TRUSSES to be provided in a deferred submittal, based on local conditions

DRAWING SCHEDULE

Module A Series (Accessory Dwelling)

- A1.0 Cover Sheet and Building Info
- A2.0 Foundation, Main, Upper and Roof Plans
- A3.0 Building Section & Wall Section
- A4.0 Exterior Elevations A5.0 Interior Elevations
- A6.0 Details & Schedules

Module B Series (Barrier-free Cottage)

- B1.0 Cover Sheet and Building Info
- B2.0 Foundation, Main and Roof Plans
- B3.0 Building Section & Wall Section
- B4.0 Exterior Elevations
- **B5.0** Interior Elevations
- B6.0 Details & Schedules

Site Series

L1.0 Alternate Site Plans

Electrical Series

- **E0.1** Electrical Cover Sheet
- E1.1 Floor Plans Electrical
- E2.1 Floor Plans Electrical E5.1 Electrical Details
- E7.1 Electrical Schedules
- **Plumbing Series**
- P0.1 Plumbing Cover Sheet
- P1.1 Plumbing Floor Plans
- P6.1 Plumbing Schedules & Details

HVAC Series

- M0.1 HVAC Cover Sheet
- M1.1 HVAC Floor Plans
- M6.1 HVAC Details & Schedules

Duplex Series

X4.1 Front Elevation + Plan MEP not provided for Duplex Series

Townhouse Series

X5.1 Triplex Front Elevation + Plan MEP not provided for Townhouse Series

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proce	ess.						
SYN	MBOL LEGE	END		Owner			
	Section Number	•					
$\frac{2}{A3}$	Building	Section	on				
	Sheet Number			Ar	chite	ct	
	Detail Number						
$\frac{2}{A3}$	Detail fla	ag					
7.0	Sheet Number						
	-Detail Numbers	;		Engineer			
$\sqrt{3}$	Interior E		ion				
A3	Sheet Number	_10 vat					
	Vertical	Fleva	tion				
_							
(<u>A</u>)	Window	Call (Out	De	evelop	per/Contractor	
1	Door Ca	II Out					
$\langle 1 \rangle$	Note Ca	II Out					
ABE	BREVIATION	1 S					
AB AC A/C ARCH	Anchor Bolt Air Conditioning Asphaltic Concrete Architectural	GALV GLB GYP HVAC	Galvanized Glue Laminated Be Gypsum Heating & Cooling I	Equip	R REF REINF SC	Radius Refrigerator Reinforced (ing) Solid core	

		ABBREVIATIONS
--	--	---------------

AB	Anchor Bolt	GALV	Galvanized	R	Radius
AC	Air Conditioning	GLB	Glue Laminated Beam	REF	Refrigerator
A/C	Asphaltic Concrete	GYP	Gypsum	REINF	Reinforced (ing)
ARCH	Architectural	HVAC	Heating & Cooling Equip	SC	Solid core
BLK'G	Blocking	HRV	Heat Recovery Ventil.	SQFT	Square feet
CMU	Concrete Masonry Unit	HB	Hose Bib	SHT'G	Sheathing
CONC	Concrete	HC	Hollow Core	SIM	Similar
CONT	Continuous	HDR	Header	SS	Stainless steel
DBL	Double	HORIZ	Horizontal	TBD	To be determined
DET	Detail	INSUL	Insulation	TO	Top of
DF	Douglas Fir	INT	Interior	TYP	Typical
DS	Downspout	MAX	Maximum	VERT	Vertical
DW	Dishwasher	MC	Medicine cabinet	W/	With
EA	Each	MFR	Manufacturer	WH	Water heater
EQUIP	Equipment	MIN	Minimum	W/O	Without
(E)	Equal	NTS	Not to Scale		
FF	Finish Floor	OC	On center		
FTG	Footing	PLYW'D	Plywood		
GA	Gauge	RO	Rough opening		

BUILDING DATA

Module A Area Heated Area: 625 ft² Porches: N/A Patio: N/A Garage: 625 ft² Garage: N/A

Module B Area Heat Source: Electric Heated Area: 625 ft² Plumbing Front Porch: 40 ft² Rear Stoop: 31 ft²

DESIGN	CRITERIA

Roof Dead: Wind Septic: **Roof Live:** Wall Dead: Soil bearing:

Do not scale.

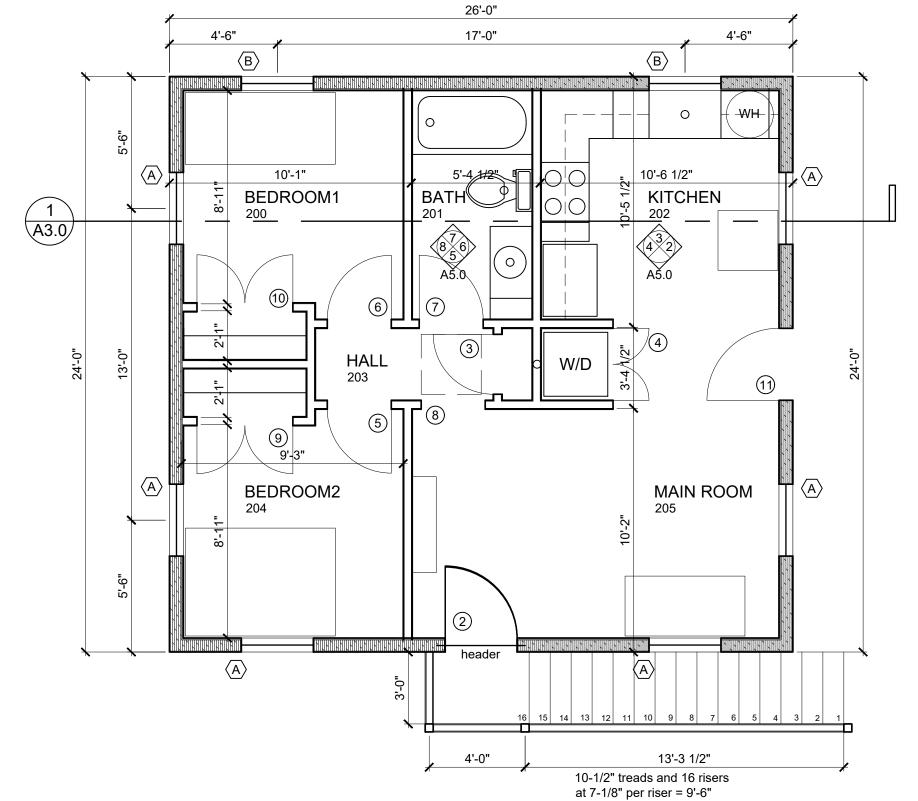
dimensions only.

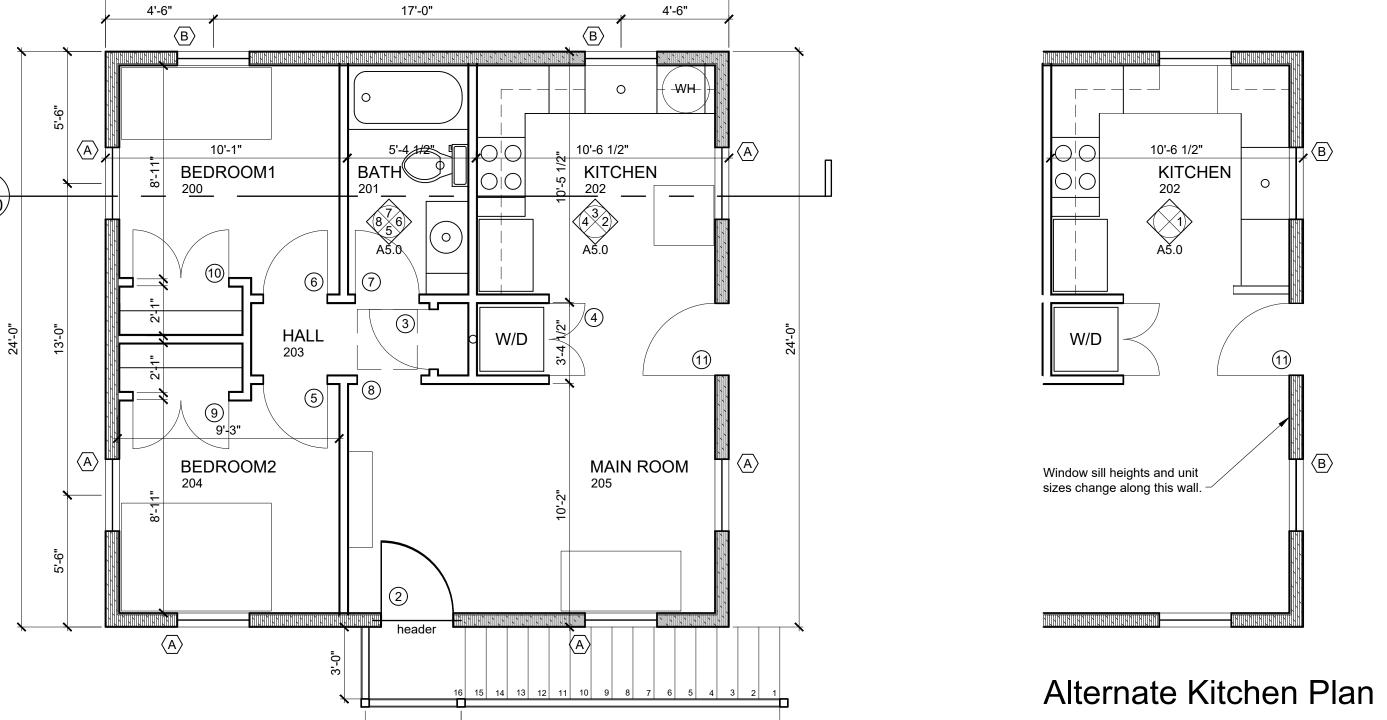
15 October 2023

Use figured

A2.0

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26'-0" 17'-0"

GARAGE/MAIN 100

13'-0"

Conditioned vertical chase for plumbing

Coordinate locations of

plumbing with Plumbing Series drawings

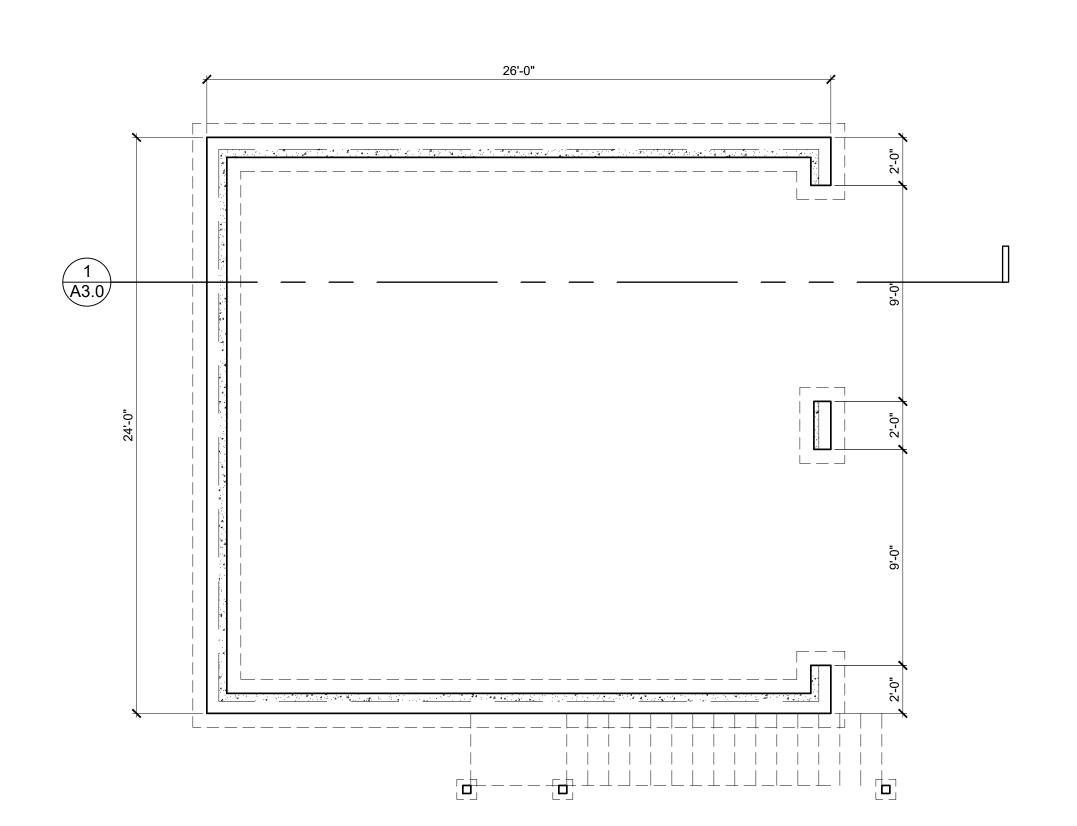
13'-5 1/2"

13'-0"

2 Module A Dwelling Unit Attic & Roof

13'-0"

Module A Upper Level



28'-0"

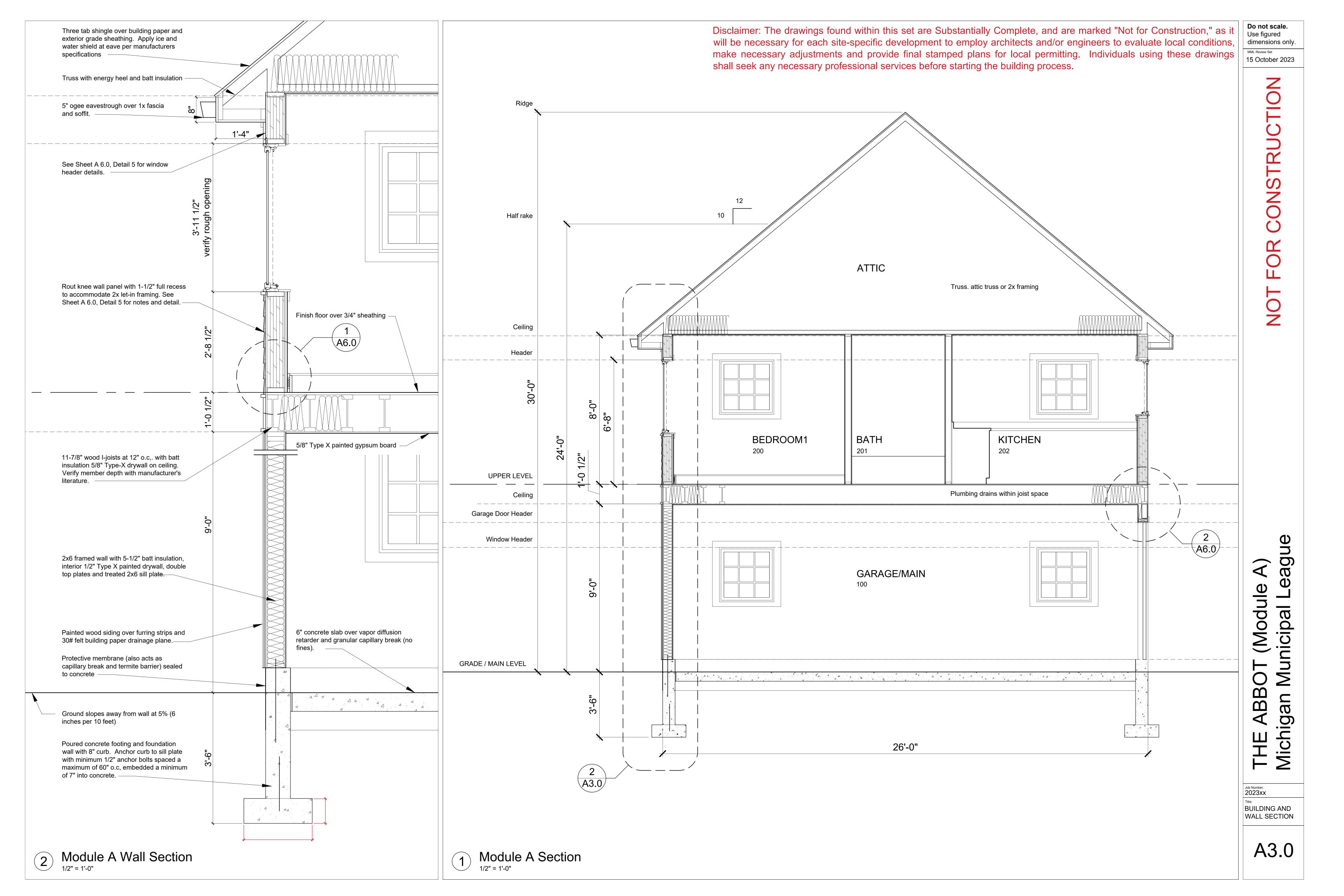
Attic access panel

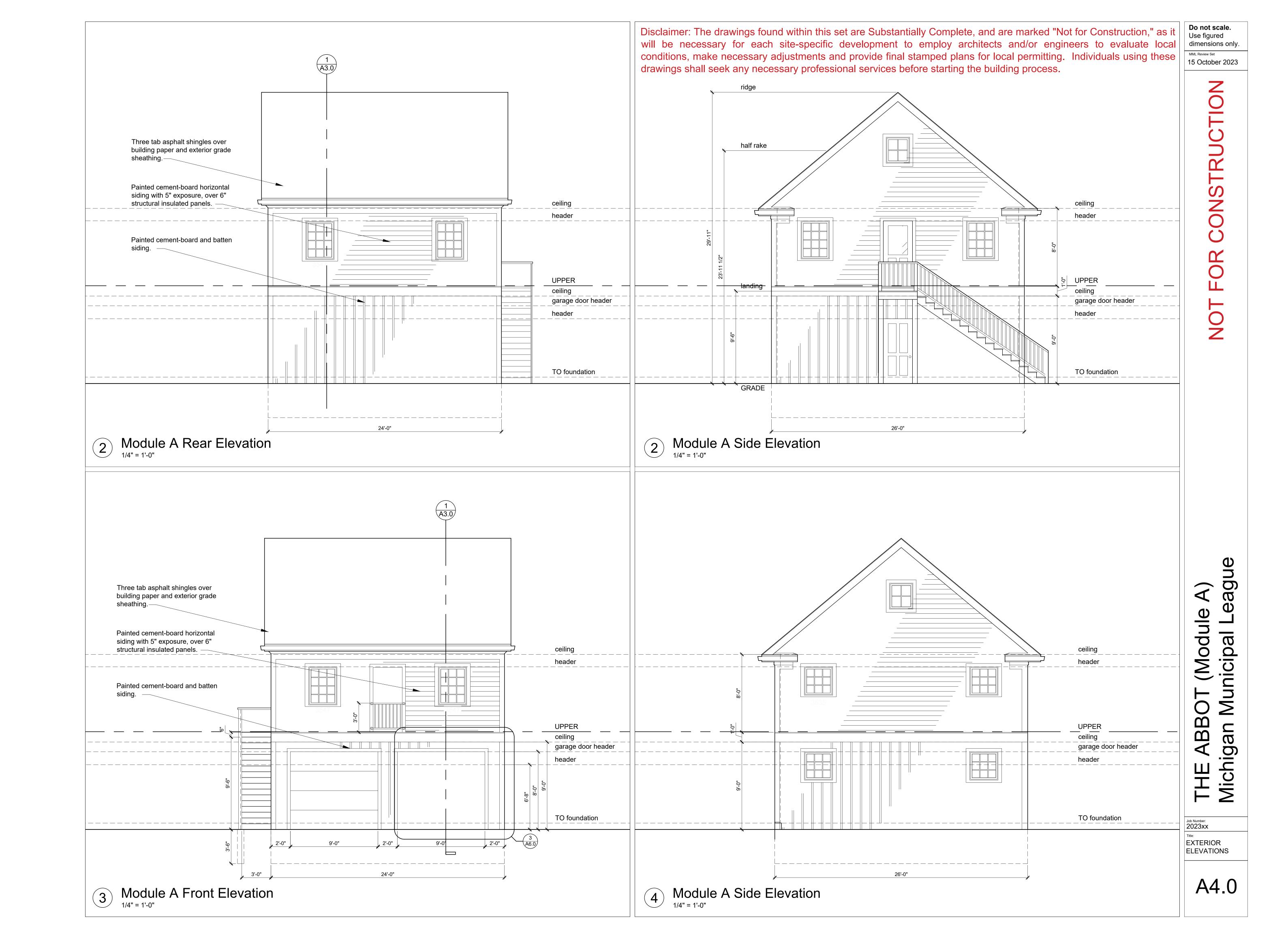
- Additional window in same location on opposite wall.

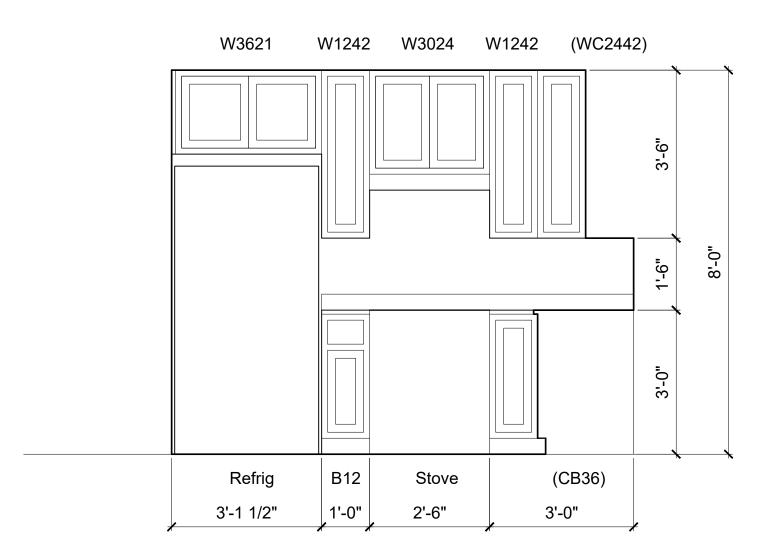
Module A Main Level/Framing

Module A Foundation

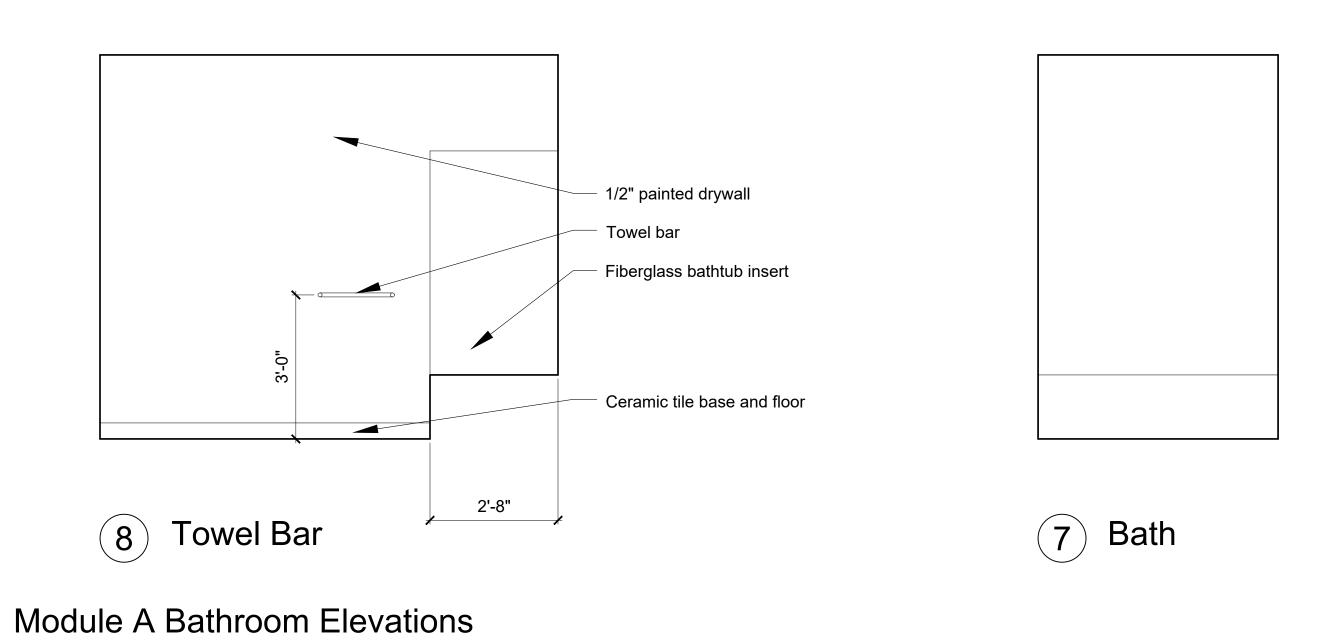
1/4" = 1'-0"







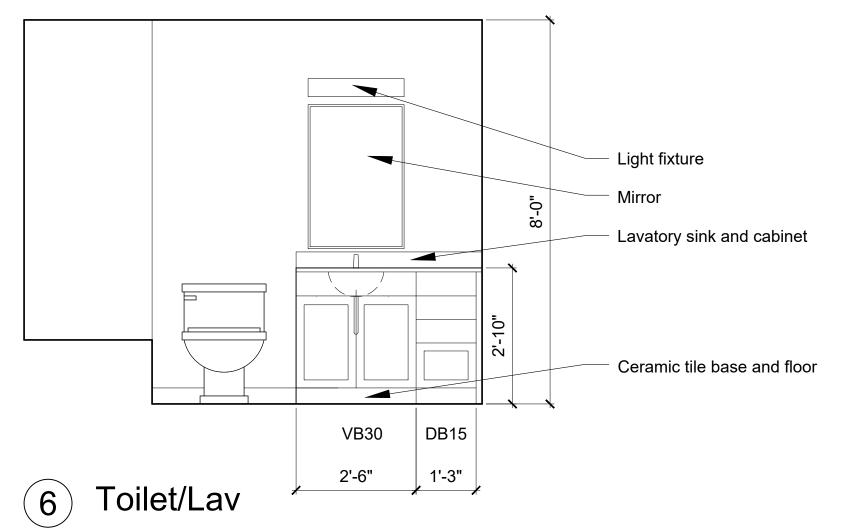
(3) Refrig/Stove Elevation

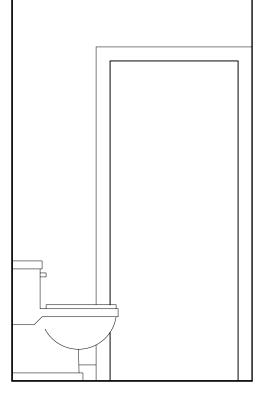


Module A Kitchen Elevations

Module A Alternate Kitchen Elevations

1/2" = 1'-0"





5 Door

INTERIOR ELEVATIONS

A5.0

Job Number: 2023xx

League

Municipal

Michigan

FINISH SCHEDULE NO. ROOM FLOOR WALLS CEILING NOTES

100	GARAGE	CONC	-		-	Ceiling treatment
200	BEDROOM1	CPT	WOOD	PAINT2	PAINT1	
201	BATH	VINYL	WOOD	PAINT2	PAINT1	
202	KITCHEN	VINYL	WOOD	PAINT2	PAINT1	
203	HALL	CPT	WOOD	PAINT2	PAINT1	
204	BEDROOM2	CPT	WOOD	PAINT2	PAINT1	
205	MAIN ROOM	CPT	WOOD	PAINT2	PAINT1	

Finish Descriptions

Mark	Description	Manufacturer	Collection	Color
PAINT	painted drywall			

VINYL Sheet Vinyl CPT1 Carpet WOOD Wood Base

Vinyl Base

WALL TYPES

3-1/2" wood stud frame interior partition wall, finished with 1/2" drywall, primed and painted

6" Structural Insulated Panel (SIP), finished with 1/2" drywall, primed and painted on the interior and exterior cladding

5-1/2" wood stud frame with 5-1/2" batt insulation, finished with 1/2" primed and painted Type X drywall interior and exterior cladding.

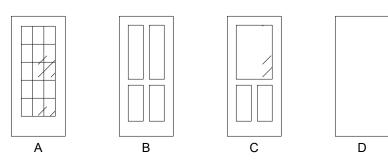
Disclaimer: The drawings found within this set are Substantially Complete, and are marked "Not for Construction," as it will be necessary for each site-specific development to employ architects and/or engineers to evaluate local conditions, make necessary adjustments and provide final stamped plans for local permitting. Individuals using these drawings shall seek any necessary professional services before starting the building process.

WINDOW SCHEDULE

MARK	SIZE	ROUGH OP'G	TYPE	NOTES
Α	36" W x 48" H		CASEMENT	Sized for egress
В	36" W x 36" H		CASEMENT	
С	29" W x 32" H		CASEMENT	

DOOR SCHEDULE

MARK	ID	SIZE	SWING	MATERIAL	HARDWARE	NOTES
1	С	36" x 80"	LEFT	STEEL	EGRESS	
2	С	36" x 80"	LEFT	STEEL	EGRESS	
3	С	30" x 80"	RIGHT	WOOD CLOSET		
4	В	32" x 80"	PAIR	WOOD	CLOSET	Hinged pair
5	В	32" x 80"	LEFT	WOOD	PRIVACY	
6	В	32" x 80"	RIGHT	WOOD	PRIVACY	
7	В	32" x 80"	LEFT	WOOD	PRIVACY	
8	D	32" x 80"	OPEN	-	-	Cased opening
9	В	32" x 80"	PAIR	WOOD	CLOSET	Hinged pair
10	В	32" x 80"	PAIR	WOOD	CLOSET	Hinged pair
11	С	32" x 80"	LEFT	STEEL	EGRESS	Exterior guardrail installed in opening



Door Types

Hardware Descriptions Schlage or approved equal

GENERAL

Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches minimum and 48 inches maximum above the finish floor or ground.

CLOSET

Latch is retracted with handle from either side.

EGRESS

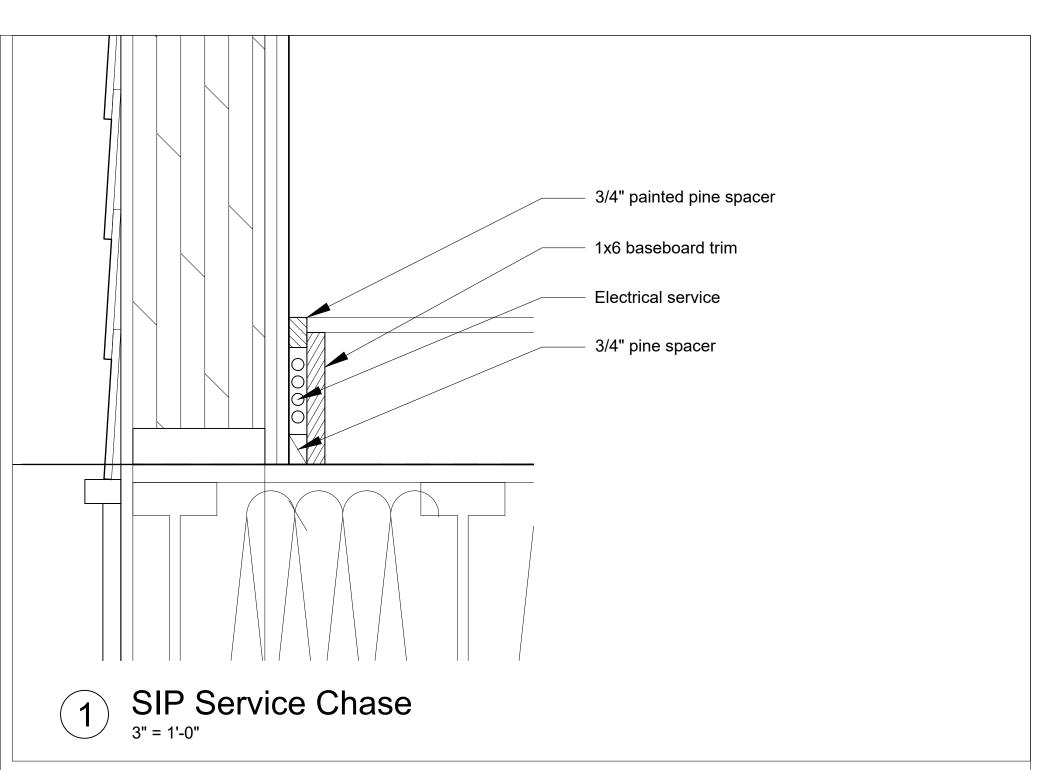
Latch is retracted with handle from inside and keyed lock from the outside.

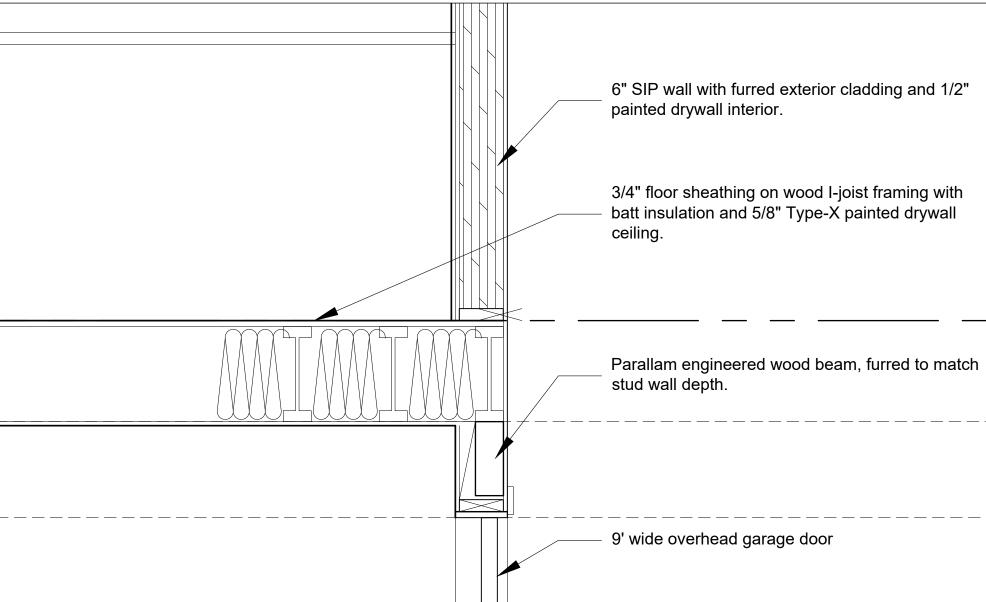
PASSAGE

Latch is retracted by grip on either side.

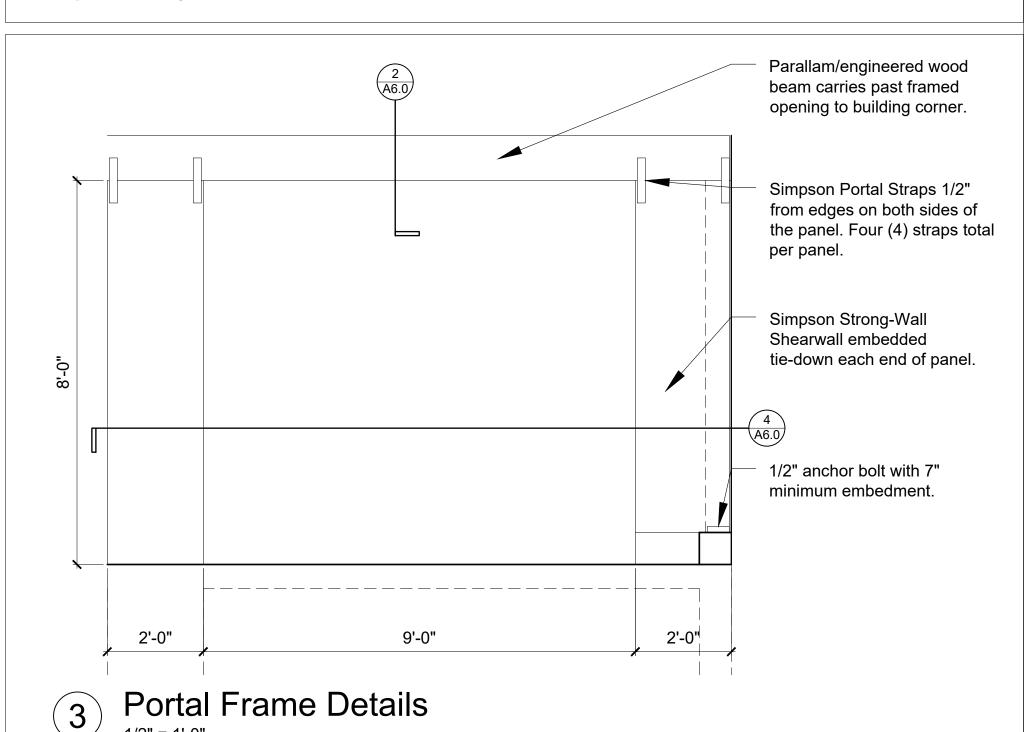
PRIVACY

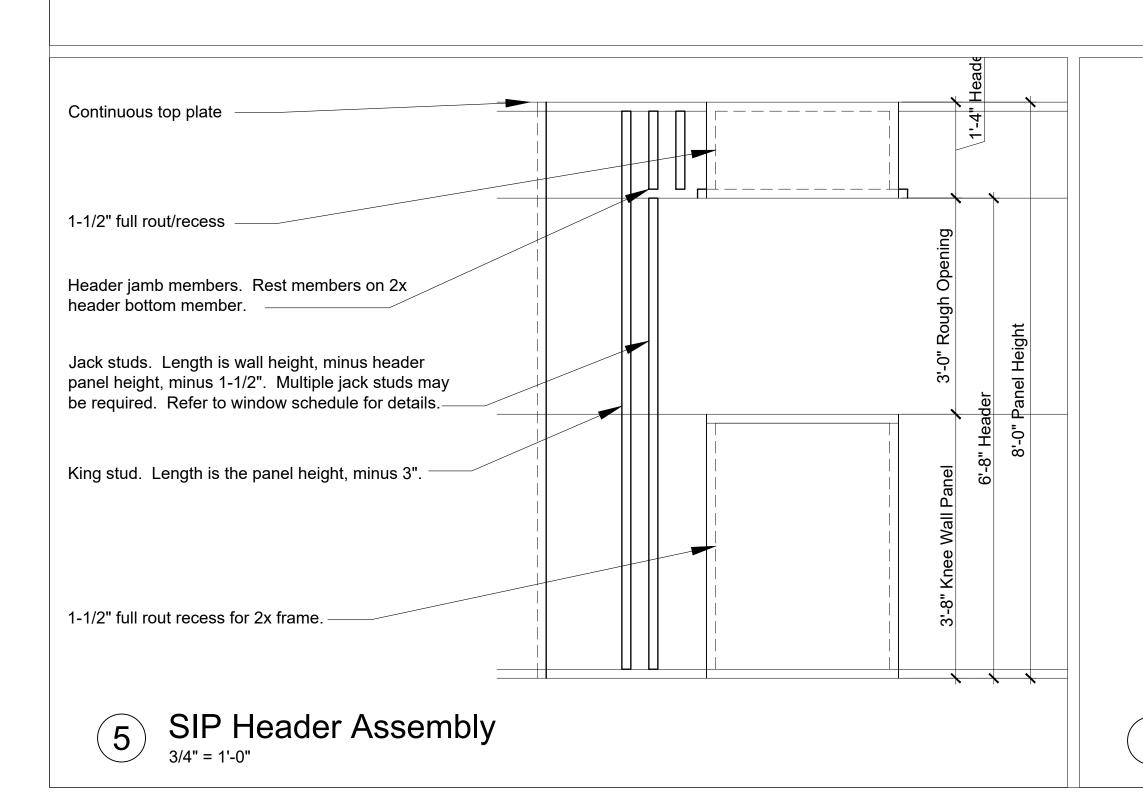
The latchbolt is retracted by the inside grip. The latchbolt is retracted by the outside grip unless the grip is locked by a thumb-turn from the inside.

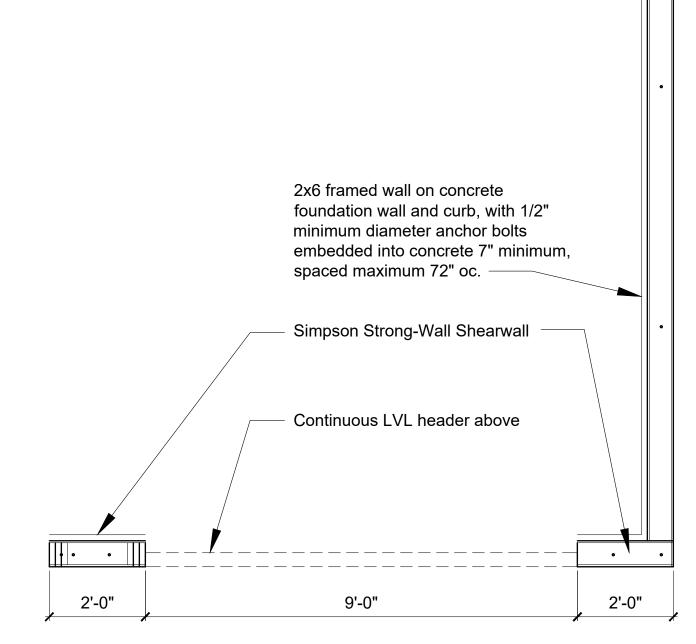




Garage Header Detail 1" = 1'-0"







Portal Frame Details
1/2" = 1'-0"

Job Number: 2023xx DETAILS & SCHEDULES

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Michigan

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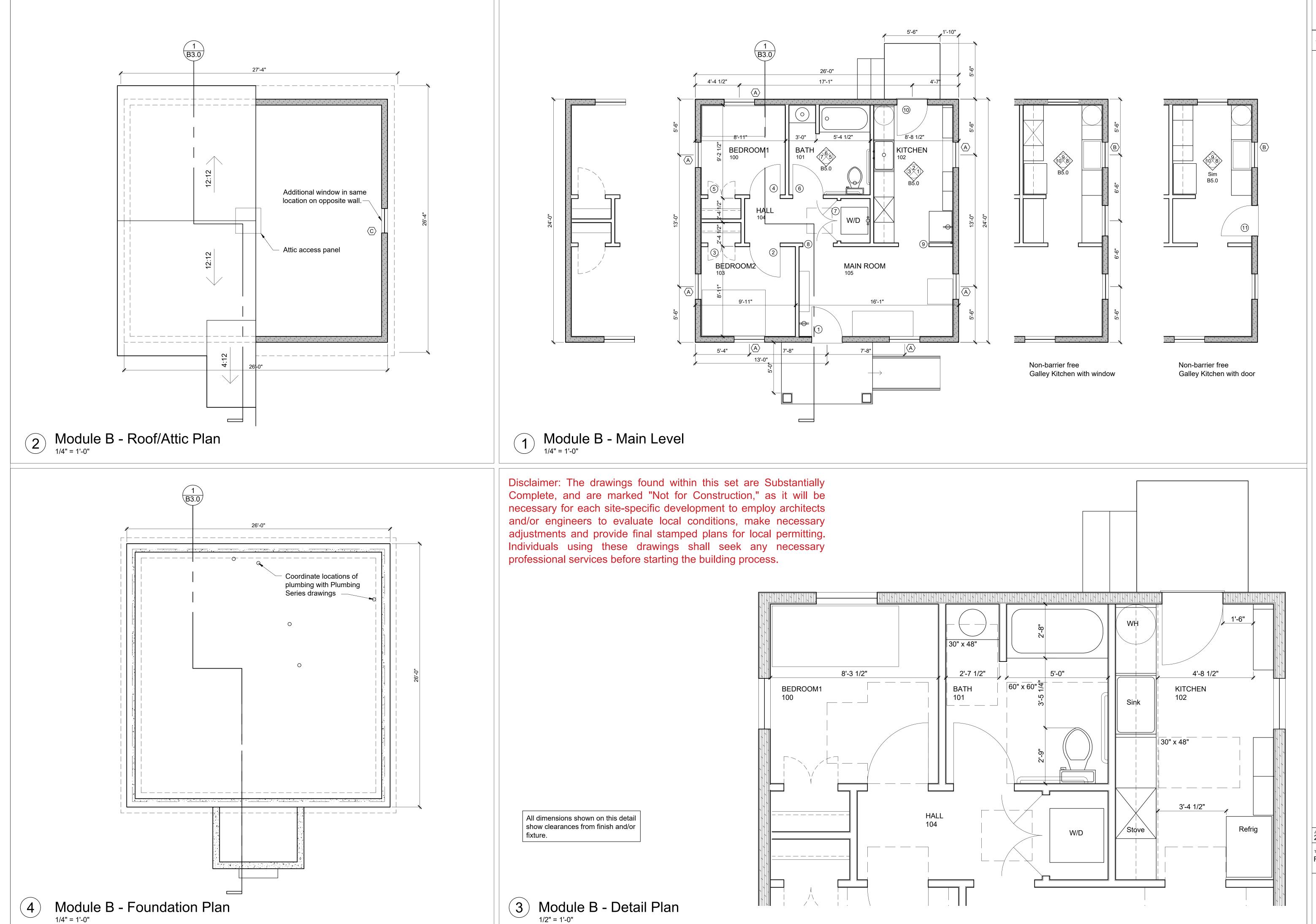
 \Box

Do not scale. Use figured

dimensions only.

15 October 2023

A6.0



Do not scale.
Use figured dimensions only.

MML Review Set

MML Review Set

15 October 2023

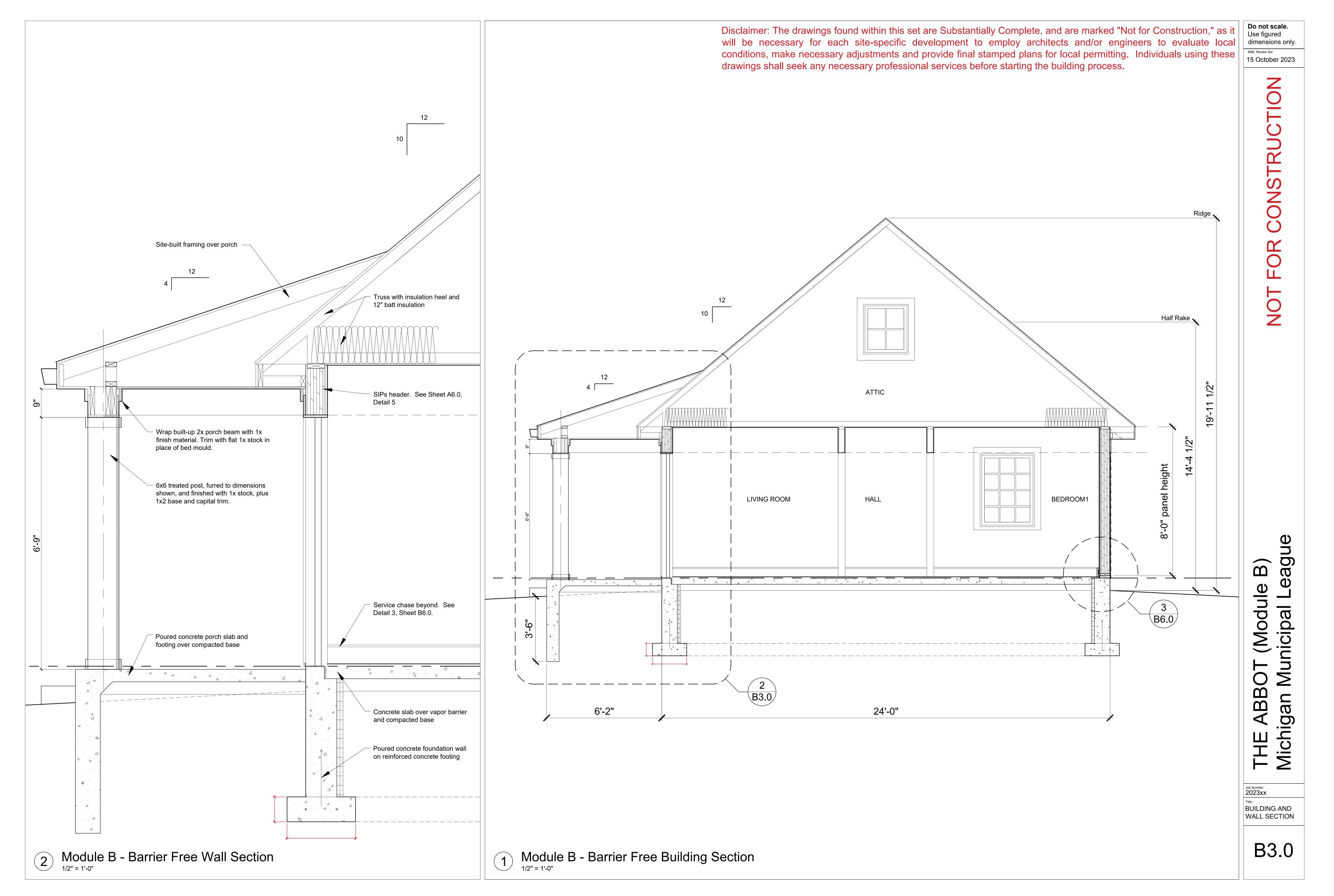
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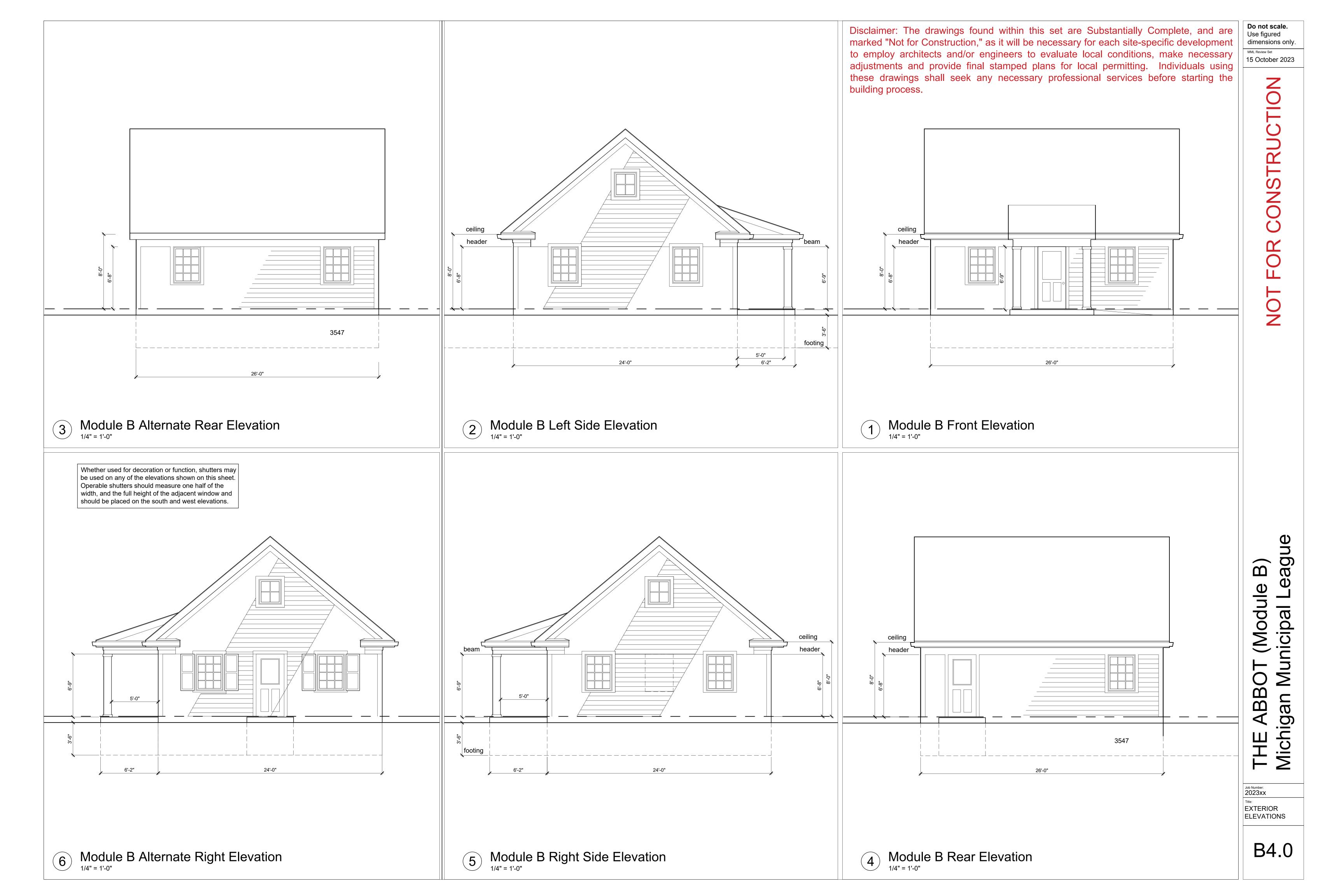
THE ABBOT (Module B) Michigan Municipal League

Job Number: 2023xx

Title: FLOOR PLANS

B2.0



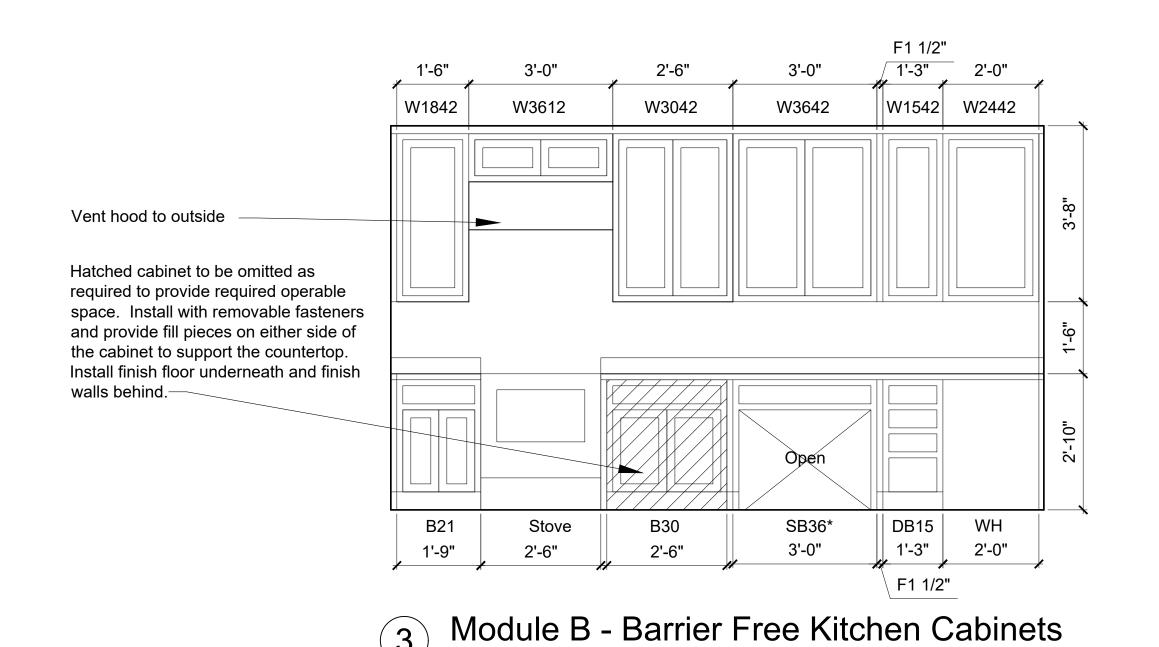


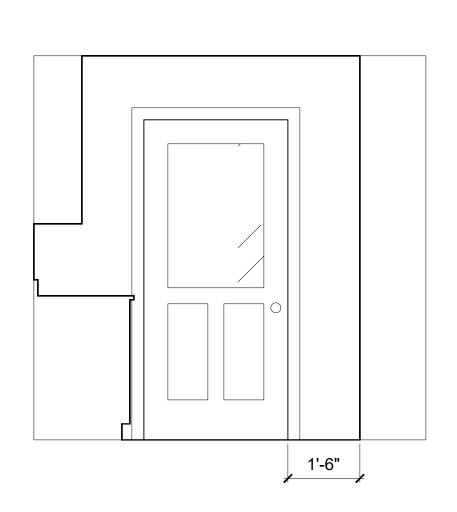
Do not scale. Use figured dimensions only.

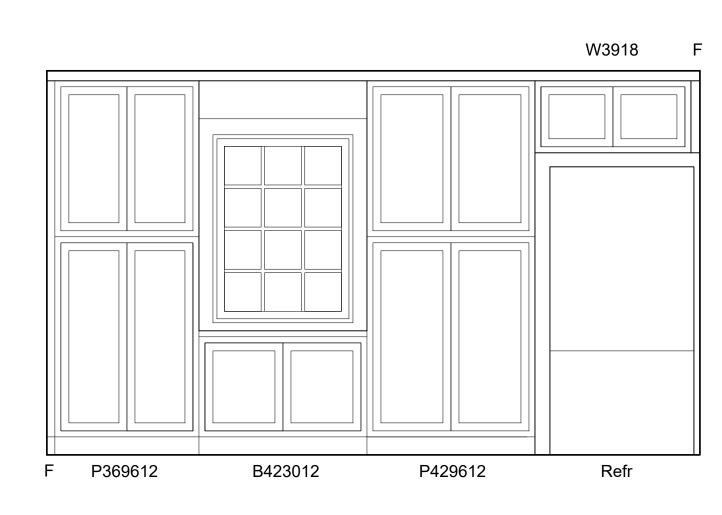
15 October 2023



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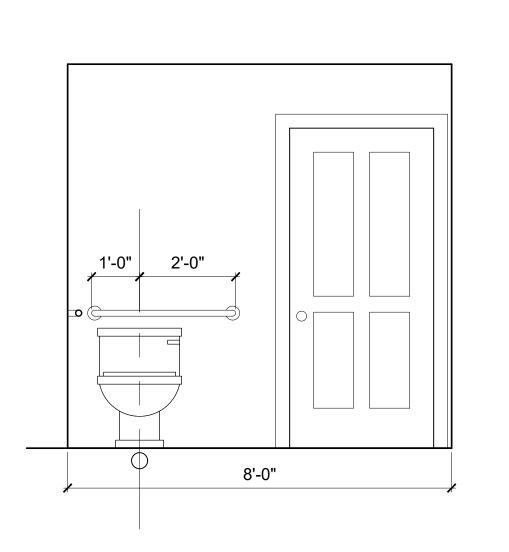


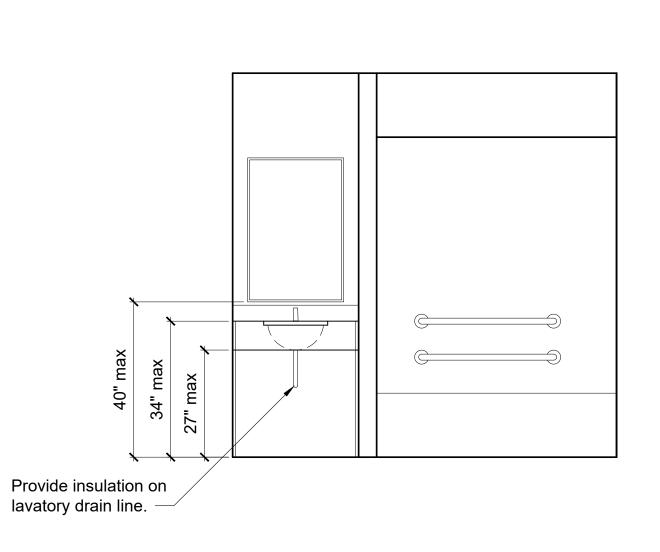


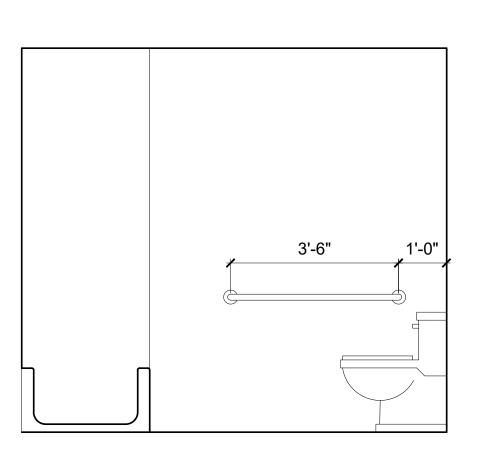


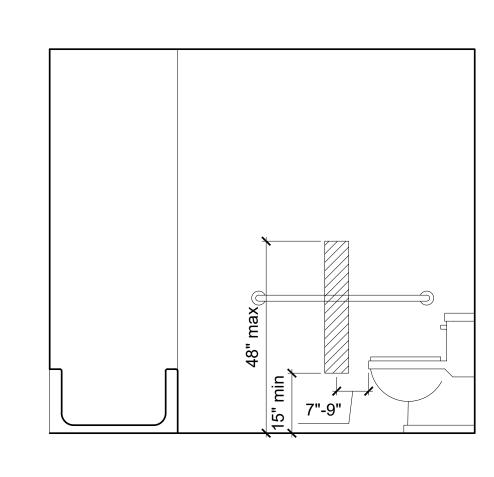
Module B - Barrier Free Kitchen Entry

Module B - Barrier Free Kitchen Pantry
1/2" = 1'-0"







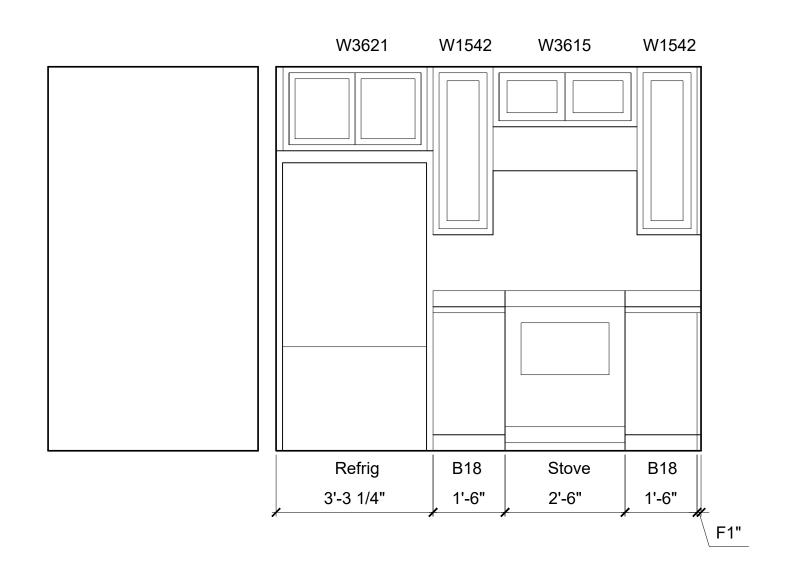


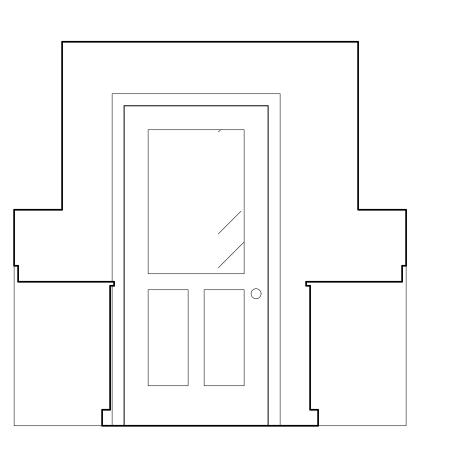
Module B - Barrier Free Toilet + Entry

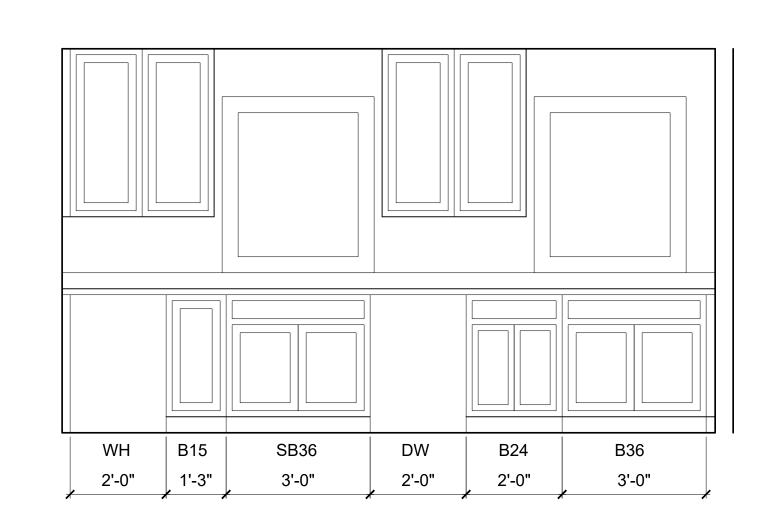
Module B - Barrier Free Lavatory + Tub

Module B - Barrier Free Tub + Toilet

Module B - Dispenser Location
1/2" = 1'-0"







Module B - Non-Barrier Free Kitchen Cabinets
1/2" = 1'-0"

Module B - Non-Barrier Free Kitchen Entry
1/2" = 1'-0"



Job Number: 2023xx INTERIOR ELEVATIONS

B5.0

FINISH SCHEDULE

	• · · • • · · · · · · ·					
NO.	ROOM	FLOOR	BASE	WALLS	CEILING	NOTES
100	BEDROOM1	CPT	WOOD	PAINT2	PAINT1	
101	BATH	VINYL	WOOD	PAINT2	PAINT1	
102	KITCHEN	VINYL	WOOD	PAINT2	PAINT1	
103	BEDROOM2	CPT	WOOD	PAINT2	PAINT1	
104	HALL	CPT	WOOD	PAINT2	PAINT1	
105	MAIN ROOM	CPT	WOOD	PAINT2	PAINT1	

Finish Descriptions

Mark Description Manufacturer Collection Color PAINT painted drywall

VINYL Sheet Vinyl CPT1 Carpet
WOOD Wood Base

Vinyl Base

WALL TYPES

3-1/2" wood stud frame interior partitions wall, finished with 1/2" drywall, primed and painted.

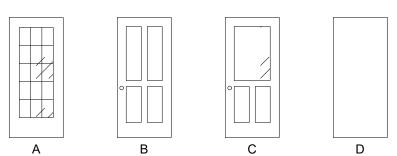
6" Structural Insulated Panel (SIP), finished with 1/2" drywall, primed and painted on the interior and exterior cladding.

WINDOW SCHEDULE

MARK	SIZE	ROUGH OP'G	JACK	TYPE	NOTES
Α	36" W x 48" H		1	CASEMENT	Sized for egress
В	36" W x 36" H		1	CASEMENT	
С	29" W x 32" H		1	CASEMENT	

DOOR SCHEDULE

MARK	ID	SIZE	SWING	JACK	MATERIAL	HARDWARE	NOTES
1	С	36" x 80"	LEFT	Χ	METAL	EGRESS	
2	В	36" x 80"	LEFT		WOOD	PRIVACY	
3	В	36" x 80"	PAIRED		WOOD	CLOSET	Hinged pair
4	В	36" x 80"	RIGHT		WOOD	PRIVACY	
5	В	36" x 80"	PAIRED		WOOD	CLOSET	Hinged pair
6	В	36" x 80"	LEFT		WOOD	PRIVACY	
7	В	36" x 80"	PAIRED		WOOD	CLOSET	Hinged pair
8	D	36" x 80"	OPEN		-	-	Cased opening
9	В	36" x 80"	OPEN		-	-	Cased opening
10	С	36" x 80"	RIGHT	Х	METAL	EGRESS	Optional based on plan
11	С	36" x 80"	LEFT	Х	METAL	EGRESS	Optional based on plan



Door Types

Hardware Descriptions

Schlage or approved equal

GENERAL

Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches minimum and 48 inches maximum above the finish floor or ground.

CLOSET

Latch is retracted with handle from either side.

EGRESS

Latch is retracted with handle from inside and keyed lock from the outside.

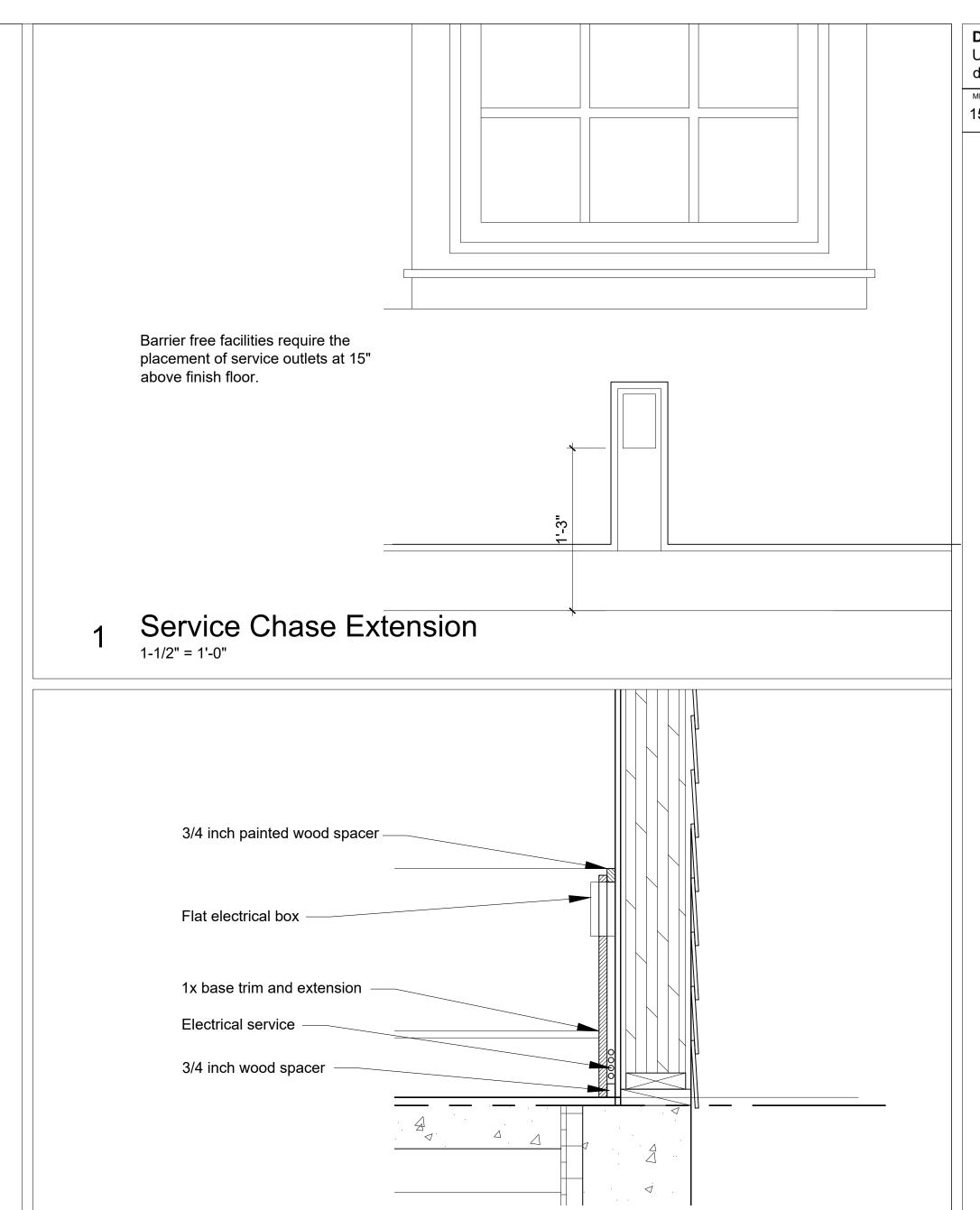
PASSAGE

Latch is retracted by grip on either side.

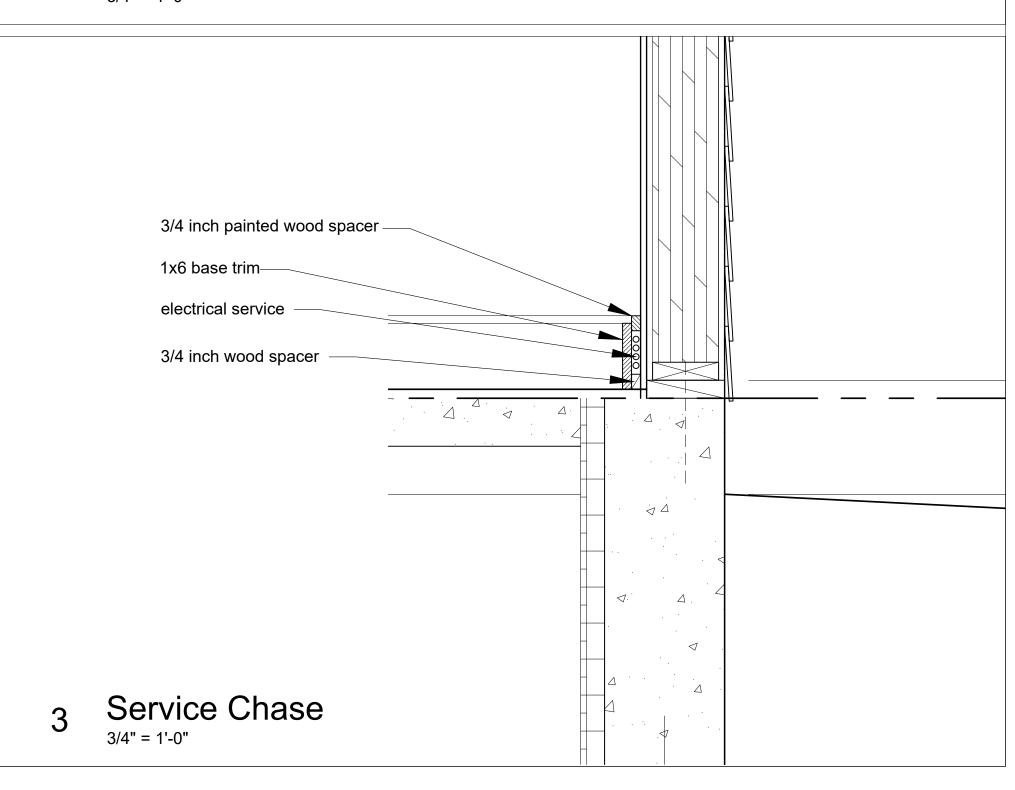
PRIVACY

The latchbolt is retracted by the inside grip. The latchbolt is retracted by the outside grip unless the grip is locked by a thumb-turn from the inside.

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2 Service Chase Extension



Do not scale.
Use figured dimensions only.

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15 October 2023

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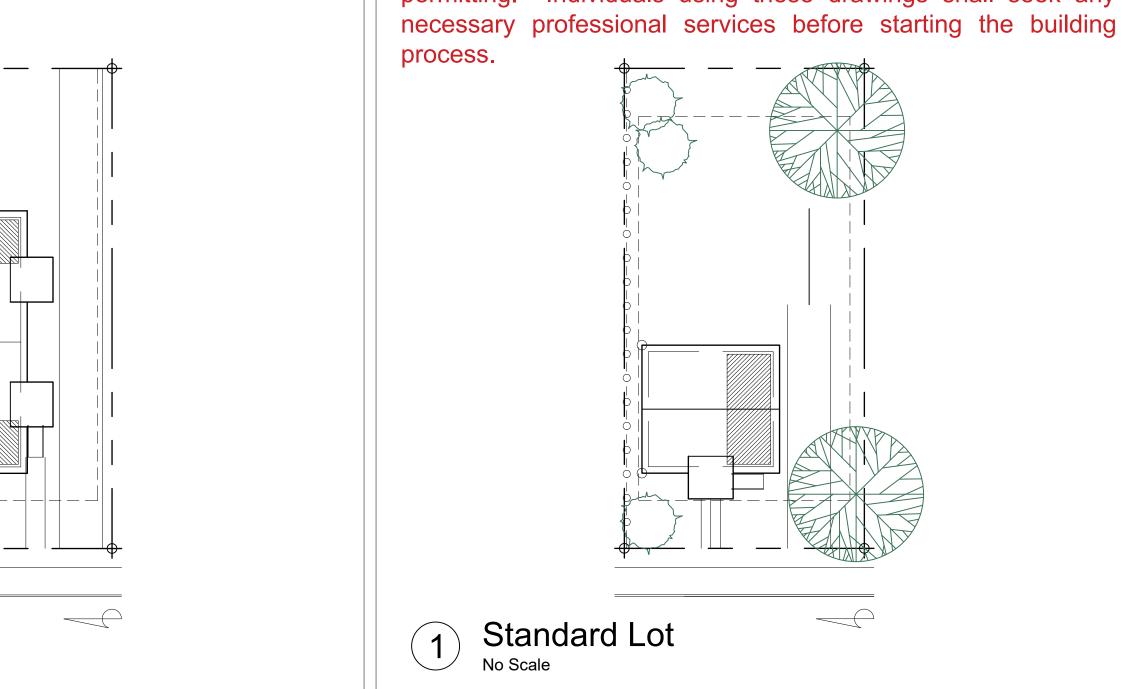
THE ABBOT (Module B) Michigan Municipal League

Job Number: 2023xx Title: DETAILS & SCHEDULES

B6.0

Side Duplex Lot

2 Back Duplex Lot



50'-0.0"

In Details 1 through 4, the shaded area indicates the location of the primary living

spaces in the building: the Kitchen/Dining Room and the Living Room. In order to

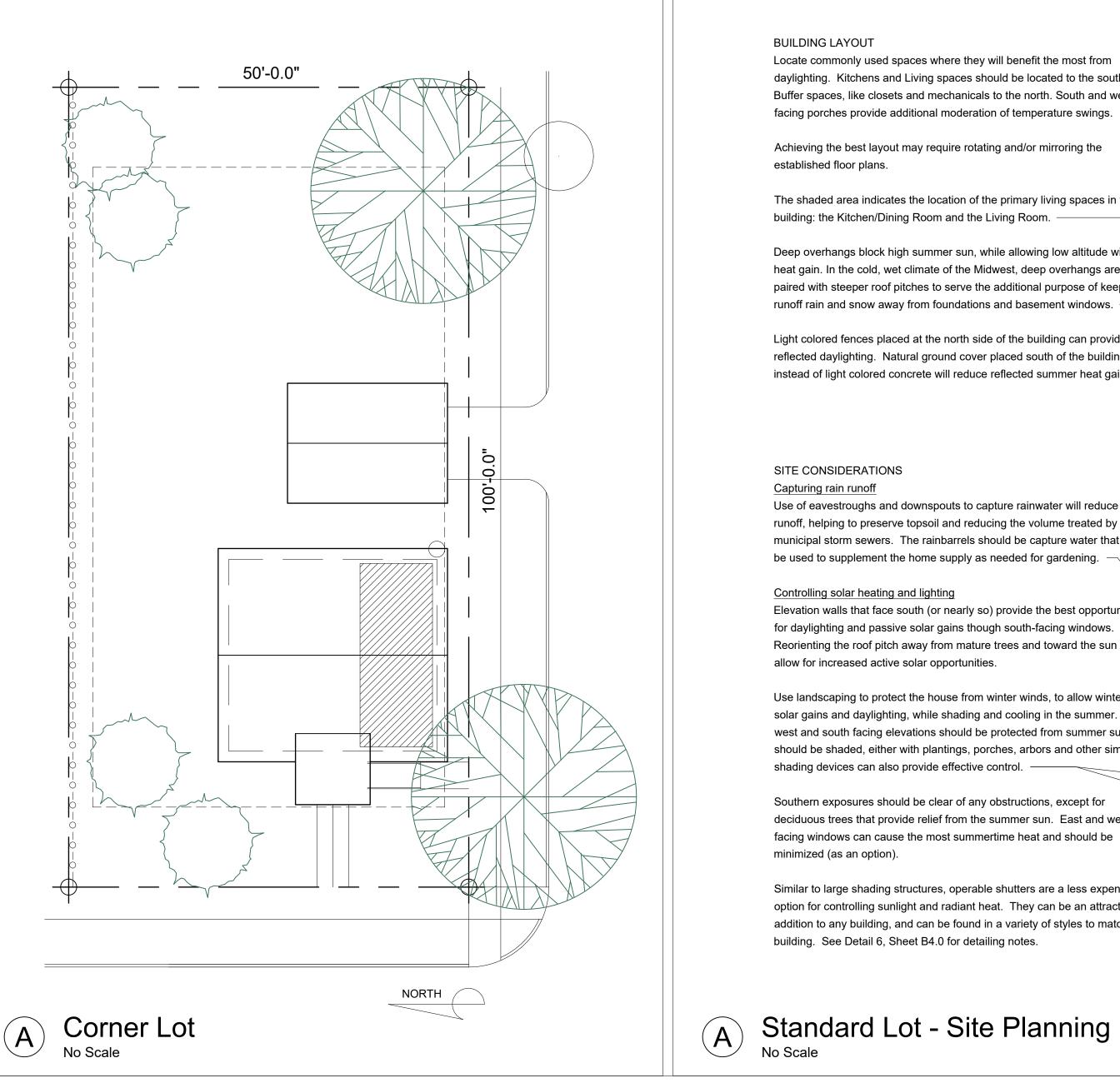
maximize daylighting, these spaces should be oriented to the south, or the outside

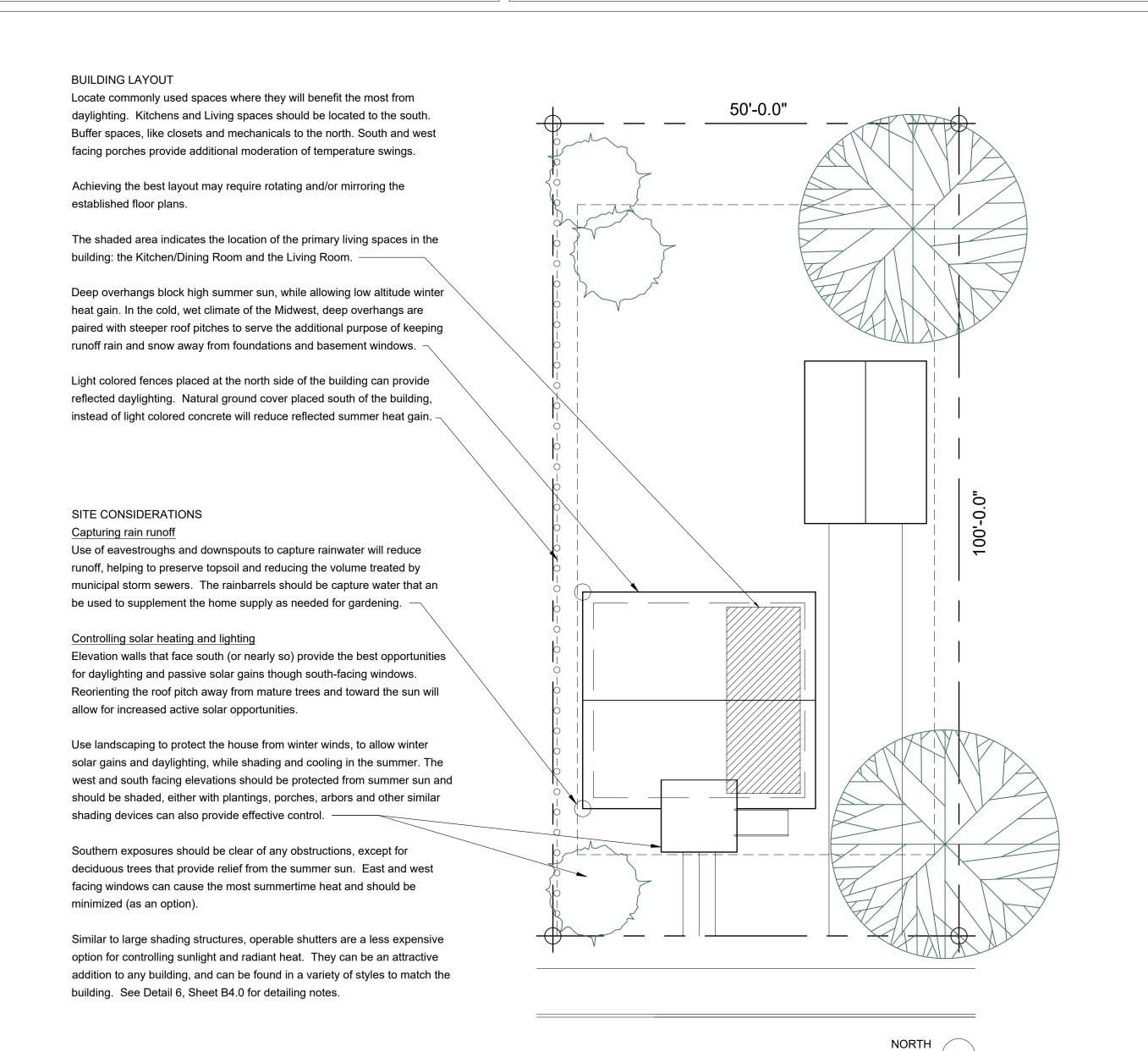
walls, if the south elevation is not available. Achieving the best layout may require

rotating and/or mirroring the established floor plans in the Duplex or Townhouse.

4 Courtyard Lot

Alley Lot





Do not scale.
Use figured dimensions only.

MML Review Set

15 October 2023

ONS

THE ABBOT Michigan Municipal

2023xx

Title:
SITE LAYOUT
OPTIONS

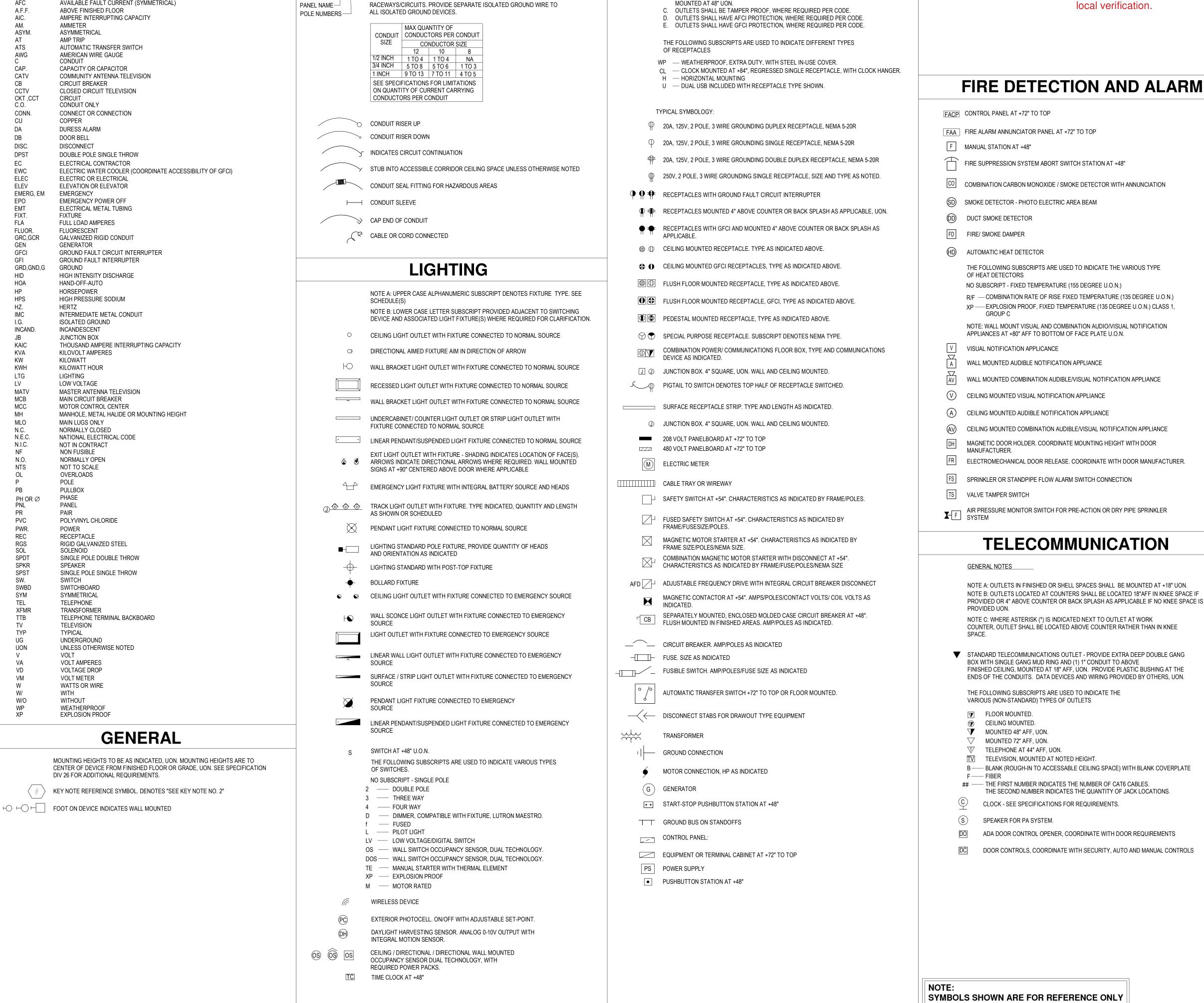
L1.0

Do not scale.

Use figured

dimensions only.

15 October 2023



POWER AND DIAGRAMS

MOUNTED AT 48" UON.

A. OUTLETS IN FINISHED OR SHELL SPACES SHALL BE MOUNTED AT +18" UON.

B. OUTLETS IN GARAGE, MECHANICAL, AND ELECTRICAL SPACES SHALL BE

CIRCUIT DESIGNATIONS

BRANCH CIRCUIT HOMERUN. PROVIDE PHASE, NEUTRAL AND GROUND

CONDUCTORS FOR EACH INDICATED CIRCUIT OR MULTI WIRE BRANCH

REQUIRED. PROVIDE EQUIPMENT GROUND WIRE IN ALL BRANCH CIRCUIT

AS REQUIRED. PROVIDE SWITCH LEGS FOR SWITCH CIRCUITING AS

ABBREVIATIONS

A, AMP

AMPERES

AMP FUSE OR AMP FRAME

AVAILABLE FAULT CURRENT (SYMMETRICAL)

GENERAL NOTES:

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architects and/or engineers to evaluate local conditions, make necessary adjustments and

provide final stamped plans for local permitting. Some items are indicated as blanks for

- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ACCEPTED EDITION OF THE NATIONAL ELECTRICAL CODE, NEC, AND ALL STATE AND LOCAL CODES.
- 2. COORDINATE THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT AND CONNECTIONS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND EQUIPMENT DRAWINGS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER, CONDUITS, AND OTHER COMPONENTS AS SHOWN ON THE EQUIPMENT PROVIDER DRAWINGS FOR INSTALLATION OF SYSTEM.
- 4. "BACK TO BACK" OR THROUGH THE WALL BOXES SHALL NOT BE USED.
- 5. ALL RECEPTACLES SHALL BE HARD USE, SPECIFICATION GRADE.
- 6. PROVIDE TAMPER RESISTANT RECEPTACLES WHERE REQUIRED BY APPLICABLE CODES.
- 7. RECEPTACLES INDICATED AS GROUND FAULT CIRCUIT INTERRUPTER TYPE SHALL BE MOUNTED IN AN ACCESIBLE LOCATION, PER CODE OR PROVIDED WITH A GFCI BREAKER.
- 8. ALL CONDUCTORS SHALL BE COPPER. ALUMINUM WIRES SHALL NOT BE USED.
- 9. FINAL CONNECTION TO ITEMS SUBJECT TO VIBRATION SHALL BE MADE WITH LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT.
- 10. 120/240VAC CIRCUIT WIRING FOR ANY ROOM OR AREA MAY BE GROUPED INTO RACEWAYS UNLESS SEPARATE RACEWAYS ARE REQUIRED BY THE NEC. COMPLY WITH NEC REQUIREMENTS FOR CONDUCTOR DERATING.
- 11. PROVIDE EQUIPMENT GROUNDING CONDUCTORS FOR ALL POWER AND LIGHTING
- 12. ALL LIGHTING AND POWER CONDUCTORS SHALL BE 12 AWG MINIMUM. ALL CONTROL CONDUCTORS SHALL BE 14 AWG MINIMUM OR AS SPECIFIED BY MANUFACTURER.
- 13. DEDICATED NEUTRAL SHALL BE PROVIDED FOR ALL CIRCUITS. SHARED NEUTRALS ARE
- 14. BASIS OF DESIGN IS FOR A COMPLETE ELECTRICAL SYSTEM, INSTALLED PER CODE REQUIREMENTS.

NOTE B: OUTLETS LOCATED AT COUNTERS SHALL BE LOCATED 18"AFF IN KNEE SPACE IF PROVIDED OR 4" ABOVE COUNTER OR BACK SPLASH AS APPLICABLE IF NO KNEE SPACE IS

AND DO NOT CONSTITUTE A CHECK LIST OF **DEVICES REQUIRED BY THE CONTRACT**

2023xx

ELECTRICAL COVER SHEET

Do not scale. Use figured dimensions only.

15 October 2023

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KEYNOTES:

1 LOCATE UNDER COUNTERTOP.

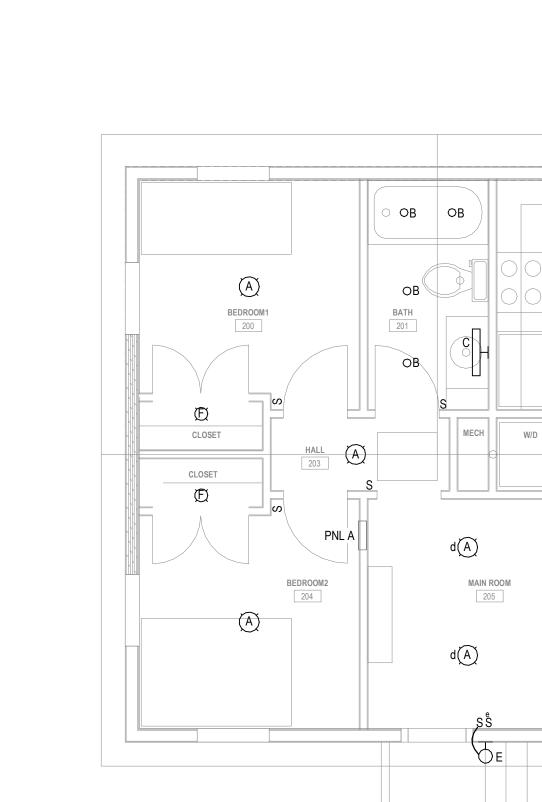
2 POWER FOR OVERHEAD GARAGE DOOR OPENER.

3 EMPTY 2" CONDUIT FOR POWER AND COMMUNICATION WITH PULL STRING STUBBED OUT 5'-0" FROM BUILDING. 4 CONNECT EXHAUST FAN TO LOCAL LIGHT CIRCUIT. CONTROL EXHAUST WITH LIGHTING.

<u>AHU-1</u> 60A-2P ACCESS PANEL

1 DWELLING UNIT MAIN LEVEL - ELECTRICAL

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



E1.1 SCALE = 1/4" = 1'-0"

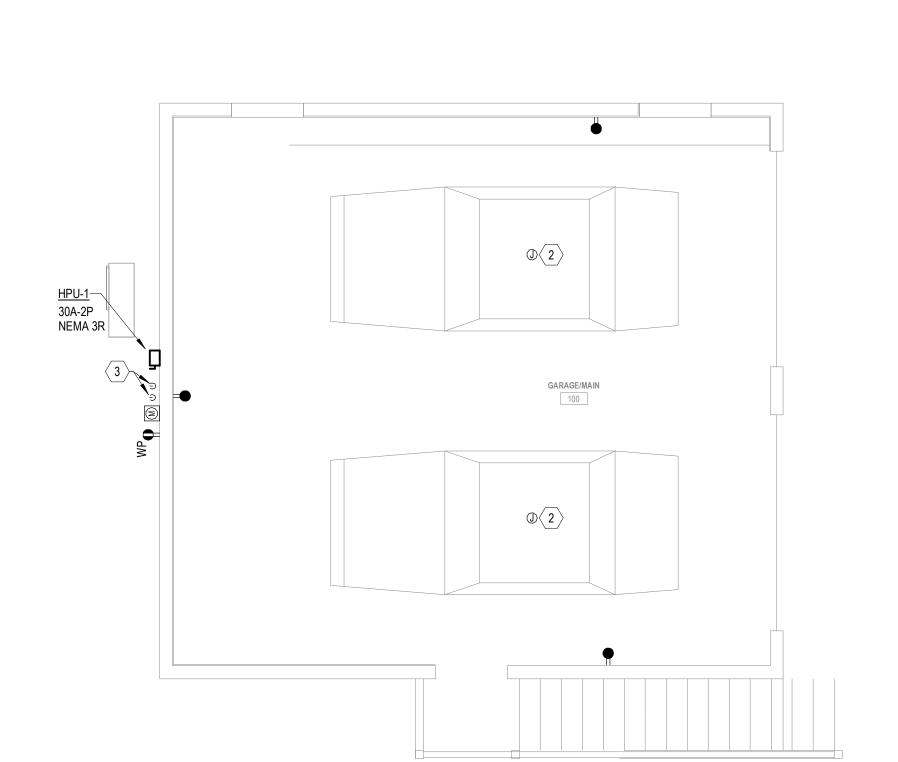
DWELLING UNIT UPPER LEVEL - LIGHTING

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

d(A)

MECH WASHER W/D 14-30R DRYER

DWELLING UNIT UPPER LEVEL - POWER





FLOOR PLANS -ELECTRICAL

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dimensions only.

15 October 2023

Use figured

FLOOR PLANS -ELECTRICAL

Job Number: 2023xx

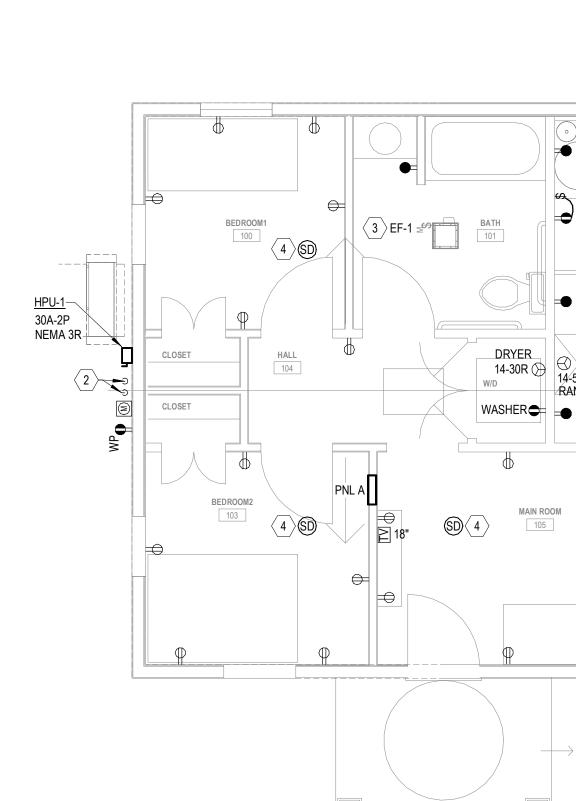
E2.1

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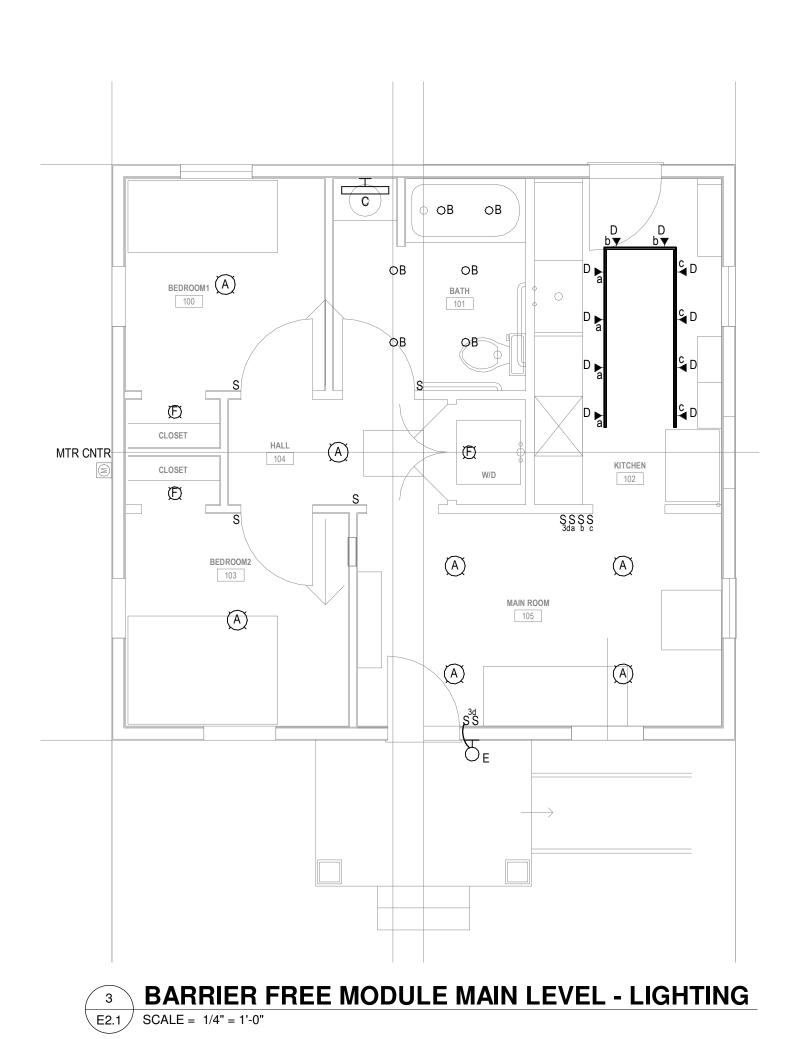
KEYNOTES:

\$ <u>DWH-1</u> WTR HTR

- 1 LOCATE UNDER COUNTERTOP.
- 2 EMPTY 2" CONDUIT FOR POWER AND COMMUNICATION WITH PULL STRING STUBBED OUT 5'-0" FROM BUILDING.
- 3 CONNECT EXHAUST FAN TO LOCAL LIGHT CIRCUIT. CONTROL EXHAUST WITH LIGHTING.
- 4 SMOKE DETECTORS WITH STROBE UNIT.



BARRIER FREE MODULE MAIN LEVEL - POWER E2.1 SCALE = 1/4" = 1'-0"





AHU-1 60A-2P NEMA 1

ACCESS PANEL

CABLE/CONDUIT SCHEDULE

2 3#1/0, #6 GND, 1 1/2"C

3 #6 AWG GND, GEC

I_{S.C.} (L-L): 7404 AMPS

1 EMPTY 2" CONDUIT WITH PULL ROPE

AVAILABLE FAULT CURRENT CALCULATIONS ARE BASED ON AN ASSUMPTION OF 30KVA

TRANSFORMER WITH AN INFINITE PRIMARY AND A 2.5% IMPEDENCE. CONTRACTOR TO CONFIRM WITH

THE UTILITY COMPANY THE AVAILABLE FAULT CURRENT AND ADJUST AIC RATINGS FOR ALL

ELECTRICAL EQUIPMENT PRIOR TO ORDERING.

120/240V ELECTRICAL RISER DIAGRAM E5.1 NOT TO SCALE

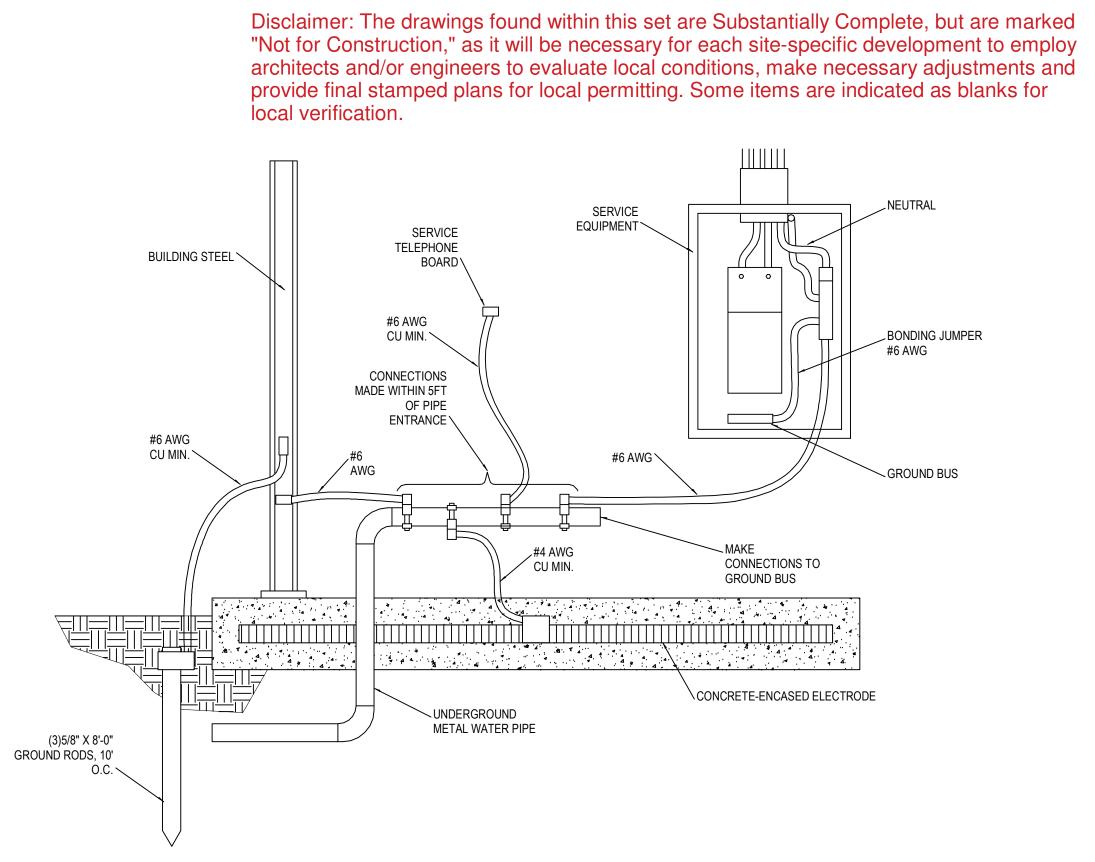
PROVIDE METER SOCKET. UTILITY METER BY OTHERS.

FINISHED GRADE

TO UTILITY CO. STRANSFORMER

PNL A 150A MCB QO SERIES 36-CKT

FINISHED FLOOR



2 GROUNDING AND BONDING DETAIL
E5.1 NOT TO SCALE

THE ABBOT Michigan Municipal

League

	LIGHT FIXTURE SCHEDULE													
ID	MANUEACTURER	MODELNO	VOLTAGE		REQUIR	RED LAMPS	DECODIDATION	NOTEO						
ID	MANUFACTURER	MODEL NO.	VOLTAGE	QTY	WATT	TYPE	DESCRIPTION	NOTES						
				1										
Α	JUNO	JSF-11IN-35K-90CRI-MVOLTZT-WH	120-277V	1	15 W	LED, 3500K, 1300LM, 90CRI	LED SURFACE MOUNT DOWNLIGHT							
В	JUNO	IC1LED-G4-14LM-35K-90CRI-MVOLT-ZT1	120-277V	1	17 W	LED, 3500K, 1400LM, 90CRI	4" DOWNLIGHT, WHITE FLANGE, 1% DIMMING							
С	LITHONIA	FMVTSL-24IN-MVOLT-30K090CRI-BN-M4	120-277V	1	10 W	LED, 3000K, 1300LM	2' LED VANITY							
D	JUNO	R605L-35K-90CRI-WFL-WH / TU-WH	120-277V	1	10 W	LED, 3500K, 3000LM, 90CRI	LED CYLINDER TRACK HEAD WITH TRACK SECTIONS	SEE LIGHTING PLAN FOR TRACK SECTION LENGTHS						
Е	SIGNATURE HARDWARE	SKU: 941513	120V	1	10 W	LED, 3000K, 1300LM	OUTDOOR ENTRANCE WALL SCONCE							
F	CLOUDY BAY	JSF-11IN-35K-90CRI-MVOLTZT-WH	120V	1	10 W	LED, 5000K, 600LM, 90CRI	MOTION SENSOR CEILING LIGHT							
Н	LITHONIA	OLVTCM-400-MVOLT-GREY	120-277V	1	15 W	LED, 4000K, 600LM	GENERAL PURPOSE LIGHT FIXTURE							

	Location: BEDROOM2 204 Mounting: RECESSED Enclosure: TYPE 1 Series: LOAD CENTER PS: OVIDE GFCI CIRCUIT BREAKE DN-BARRIOR FREE UNIT ONLY	Pha W	olts: 12 ises: 1 lires: 3	20/24	40	Single	M: No	A.I.C. Rating: 10kAIC Mains Type: MCB Mains Rating: 150 A Bus Rating: 150 A Neutral Buss: Yes Ground Buss: Yes				
CKT	Circuit Description	Trip	Poles	Α	В	Poles	Trip	Circuit Description	СКТ			
1	LTG BEDRM, CLOSET, HALL	20	1			1	20	LTG KITCHEN	2			
3	LTG MAIN ROOM, W/D,	20	1			1	20	LTG KITCHEN	4			
5	LTG ATTIC	20	1			1	20	LTG KITCHEN	6			
7	RECEPT BEDROOM1	20	1			1	20	RECEPT HALL	8			
9	RECEPT BATH	20	1			1	20	RECEPT BEDROOM2	10			
11	* D.W. KITCHEN	20	1			1	20	RECEPT MAIN ROOM	12			
13	DISPOSAL KITCHEN	20	1			1	20	RECEPT MAIN ROOM	14			
15	* MICRO KITCHEN	20	1			1	20	WASHER W/D	16			
17	REFRIG KITCHEN	20	1			2	30	DRYER W/D	18			
19	RECEPT KITCHEN	20	1						20			
21	RECEPT KITCHEN	20	1			2	25	WATER HEATER MECH	22			
23	RECEPT KITCHEN	20	1						24			
25	RANGE KITCHEN	50	2			2	35	AHU-1 ATTIC	26			
27									28			
29	HPU-1	20	2			1	20	RECEPT ATTIC	30			
31] .		1	20	SPARE	32			
33	** RECEPT GARAGE/MAIN	20	1			1	20	SPARE	34			
	** GDOP GARAGE/MAIN	20	1			1	20	SPARE	36			

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PIPE INSULATION SCHEDULE												
FLUID OPERATING	INSULATION CONE	UCTIVITY	IVITY NOMINAL PIPE OR TUBE SIZE, INCHES									
TEMP RANGE, °F	CONDUCTIVITY	MEAN TEMP	<1	1 TO <1.5	1.5 TO <4	4 TO <8	>8	NOTE				
	RANGE BTU-IN/HR-FT ² -°F	RATING, °F		INSULATION THICKNESS, INCHES								
105°+ (DOM. HW)	0.22 - 0.28	100°	0.5 a	0.5 a	1.0 a	1.0 a	1.0 a	2				
DOM. HW W/ HWR	0.27	100°	1.0 °	1.0 °	1.0 a,c	1.0 a,c	1.0 a,c	2				
40° TO 60°	0.21 - 0.27	75°	1.5 b,d	1.5 b,d	1.5 b,d	1.5 b,d	1.5 b,d	1				
> 40°	0.20 - 0.26	50°	1.5 ^{b,d}	1.5 b,d	1.5 b,d	1.5 b,d	1.5 b,d	1				
DOMESTIC CW	0.21 - 0.27	75°	1.0	1.0	1.0	1.0	1.0	1				

NOTE: THE VALUES LISTED IN THE SCHEDULE ARE BASED ON THE MICHIGAN UNIFORM ENERGY CODE (BASED ON ASHRAE 90.1-2013), 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) (AS REFERENCED BY 2015 MICHIGAN MECHANICAL CODE), & 2018 MICHIGAN PLUMBING CODE (MPC). THE MORE STRINGENT REQUIREMENTS ARE USED AS LISTED BELOW. VERIFY THE VALUES COMPLY WITH THE CODES IN EFFECT AT THE TIME OF CONSTRUCTION AND ADJUST ACCORDINGLY.

CODE REFERENCES: a. FROM ASHRAE 90.1, TABLE 6.8.3-1 "MINIMUM PIPING INSULATION THICKNESS" FOR "HEATING AND HOT WATER SYSTEMS

- (STEAM, STEAM CONDENSATE, HOT WATER HEATING AND DOMESTIC WATER SYSTEMS)"
 b. FROM ASHRAE 90.1, TABLE 6.8.3-2 "MINIMUM PIPING INSULATION THICKNESS" FOR "COOLING SYSTEMS (CHILLED WATER,
- BRINE, AND REFRIGERANT)."

 c. FROM IECC, SECTION C404 "SERVICE WATER HEATING (MANDATORY)" PARAGRAPH C404.4 "INSULATION OF PIPING."
- d. FROM IECC, SECTION C404 "SERVICE WATER HEATING (MANDATORY)" PARAC

NOTES:

- PROVIDE WITH VAPOR BARRIER. HANGERS/SUPPORTS SHALL BE INSTALLED OUTSIDE OF INSULATION.
 THE FOLLOWING DOMESTIC/SERVICE HOT WATER PIPING SHALL BE INSULATED AS INDICATED:
- a. RECIRCULATING SYSTEM PIPING, INCL THE SUPPLY AND RETURN PIPING OF A CIRCULATING TANK TYPE WATER HEATER
- b. THE FIRST 8 FT. OF OUTLET PIPING FOR A CONSTANT TEMPERATURE NONRECIRCULATING STORAGE SYSTEM.
- c. THE INLET PIPE BETWEEN THE STORAGE TANK AND A HEAT TRAP IN A NONRECIRCULATING STORAGE SYSTEM.d. PIPES THAT ARE EXTERNALLY HEATED (SUCH AS HEAT TRACE OR IMPEDANCE HEATING).

Do not scale.
Use figured dimensions only.

15 October 2023

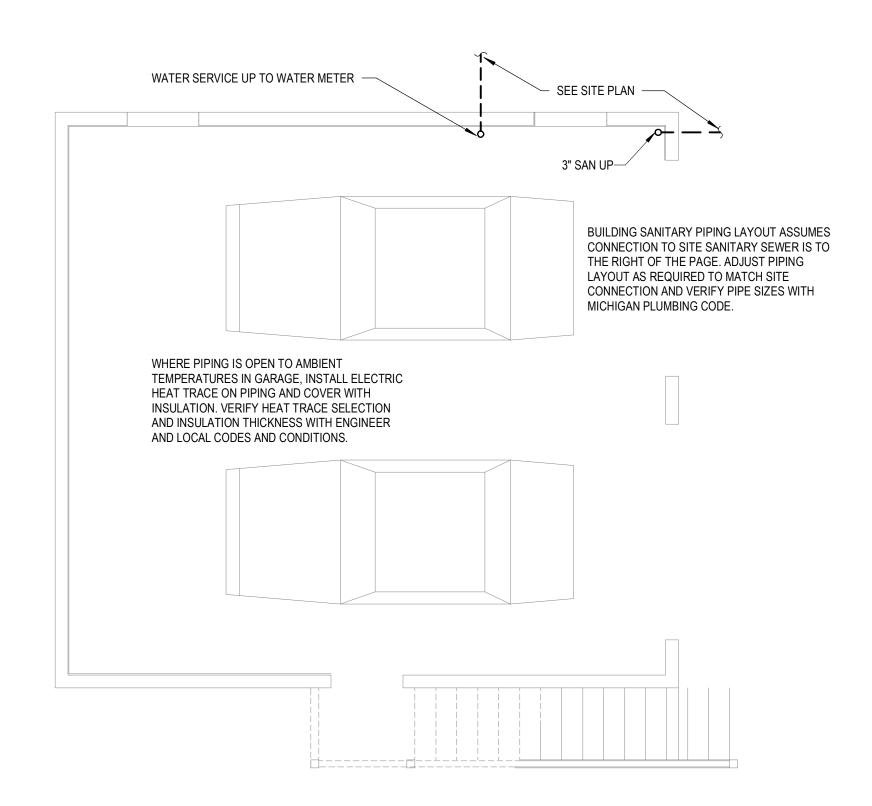
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Job Number: 2023xx

PLUMBING COVER SHEET

20 1

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COORDINATE LOCATION OF WATER METER WITH WATER SERVICE LEAD AND OTHER TRADES ——— _2" SAN UP 3" SAN UP-1 1/2" SAN UP-GARAGE/MAIN
100

CLOSET

ACCESSORY DWELLING UNIT -PLUMBING UNDERGROUND

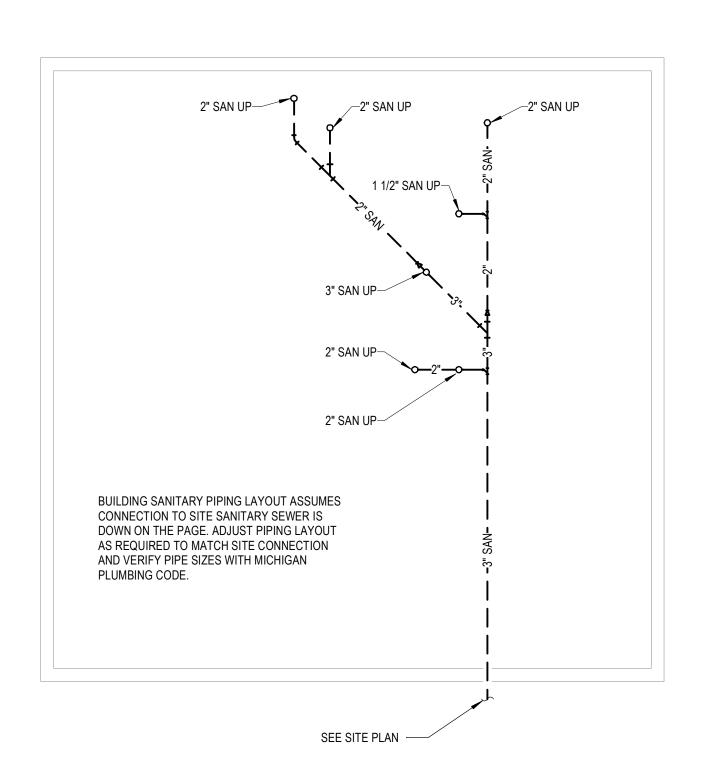
P1.1 | SCALE = 1/4" = 1'-0"

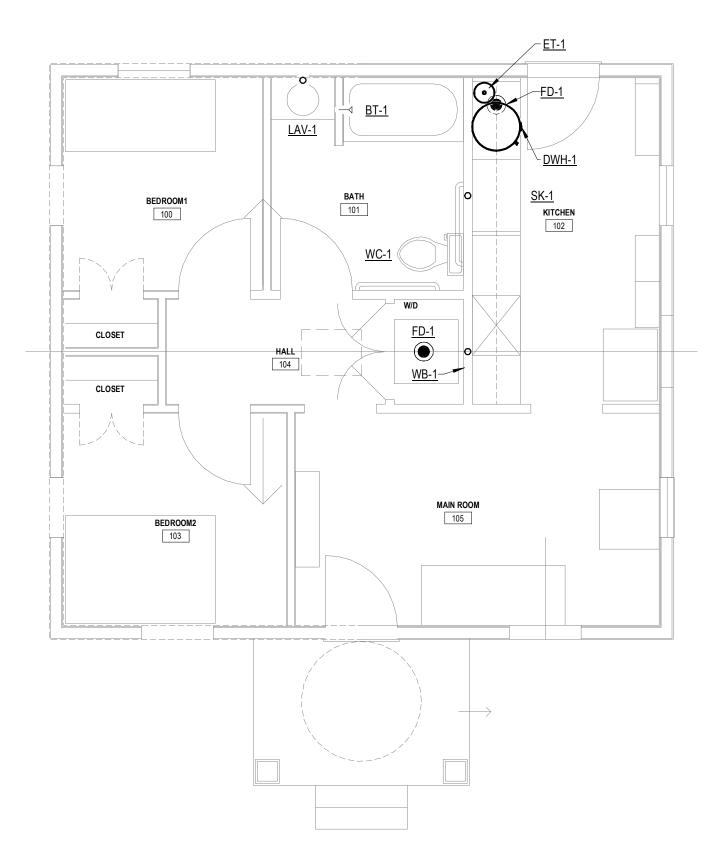
ACCESSORY DWELLING UNIT MAIN LEVEL -² PLUMBING

P1.1 SCALE = 1/4" = 1'-0"

ACCESSORY DWELLING UNIT UPPER LEVEL -

PLUMBING P1.1 | SCALE = 1/4" = 1'-0"





BARRIER FREE MODULE - PLUMBING 4 **UNDERGROUND**P1.1 SCALE = 1/4" = 1'-0"

BARRIER FREE MODULE - PLUMBING P1.1 SCALE = 1/4" = 1'-0"

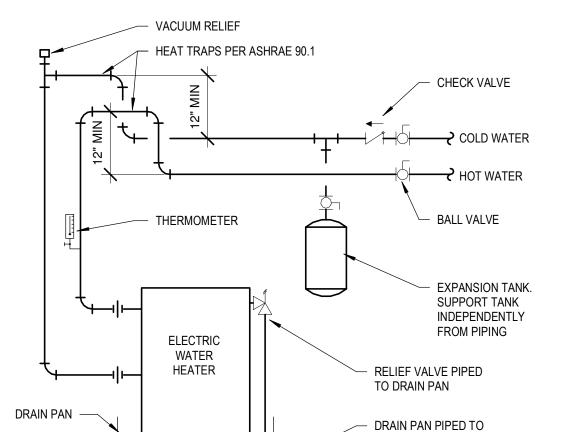
Job Number: 2023xx

PLUMBING FLOOR PLANS

-eague

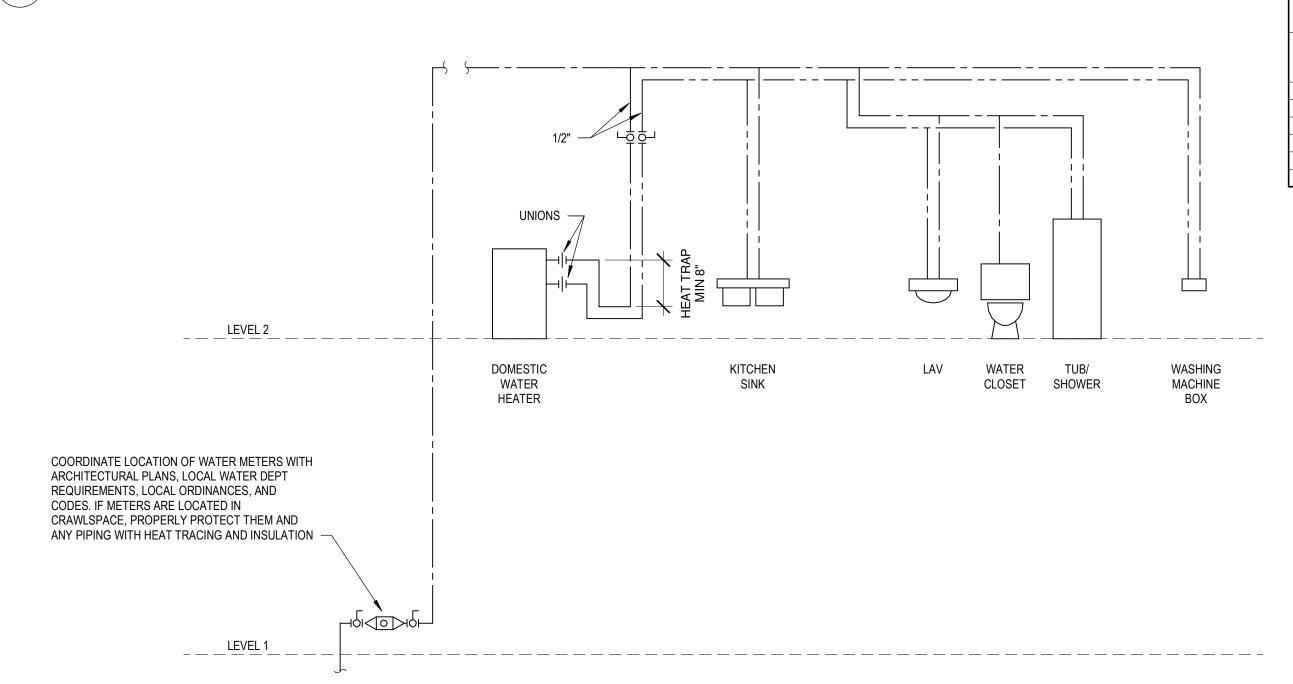
Municipal

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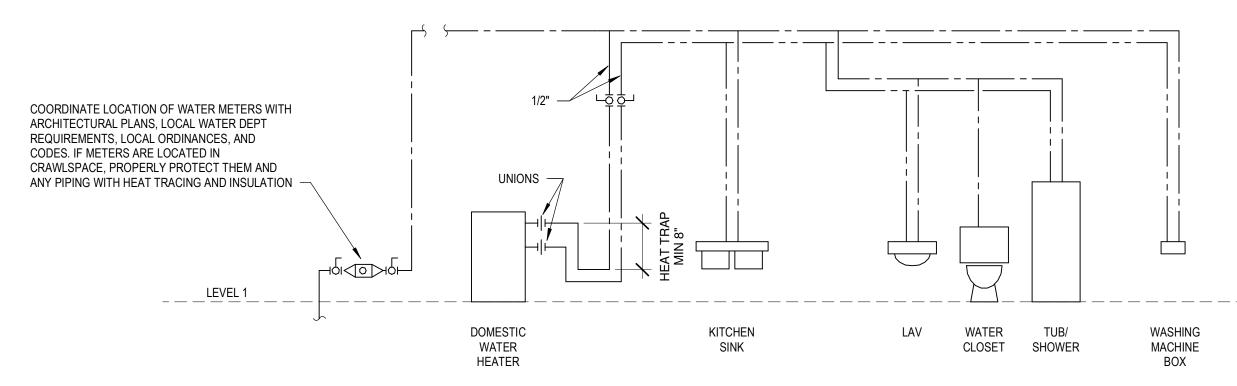
DOMESTIC WATER HEATER PIPING SCHEMATIC 1 DOMEST P6.1 NOT TO SCALE

FLOOR DRAIN



DOMESTIC WATER PIPING SCHEMATIC -ACCESSORY DWELLING UNIT

P6.1 NOT TO SCALE



DOMESTIC WATER PIPING SCHEMATIC -

BARRIER FREE MODULE

P6.1 NOT TO SCALE

	local verification.											
DOMESTIC WATER HEATER SCHEDULE												
2. PROVIDE WITH I 3. WATER HEATER	TEMPERATURE & PRESS DRAIN PAN. I SHALL INCLUDE INTEGF I SHALL HAVE SIDE INLE	RAL OR FACTORY INSTA										
	BASIS OF	DESIGN		STORAGE	RECOVERY	1 HR DRAW	RISE OF	EWT	LWT	ELECTRI	CAL DATA	
TAG	MANUFACTURER	MODEL	DESCRIPTION	(GALLONS)	GPH	(GALLONS)	RECOVERY °F	°F	°F	DWH KW	DWH VOLTAGE	COMMENTS
DWH-1	Lochinvar	JEA030KD	SHORT ELECTRIC WATER HEATER	28	27	47	70	50	120	4.5	240V / 1Ø	1, 2, 3, 4

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provide final stamped plans for local permitting. Some items are indicated as blanks for

		EXI	PANSIC	ON TANK S	CHEDUL	.E		
•	EL SHELL BUTYL BLADDER EEL CONNECTION				OXY FINISH EE F MAXIMUM TEMPERA XIMUM DESIGN PRESSU	··· •·· · -		
TAG	DESIGN BA	ASIS	TANK VOLUME	MAXIMUM ACCEPTANCE VOLUME	SYSTEM CONNECTION SIZE	ASME Rated	COMMENTS	
ET-1	Amtrol	ST-5	2.0 gal 0.9 gal 3/4" No 1, 2, 3, 4, 5, 6					

	PLUMBING FIXTURE CONNECTION SCHEDULE												
			PIPE CONNEC	CTION DATA		ELECTR	ICAL DATA						
TAG	FIXTURE TYPE	COLD WATER	HOT WATER	VENT	SANITARY	FLA	VOLTAGE	COMMENTS					
BT-1	BATHTUB / SHOWER	1/2"	1/2"	1-1/2"	2"	-	-						
FD-1	FLOOR DRAIN	-	-	1-1/2"	2"	-	-						
LAV-1	LAVATORY	1/2"	1/2"	1-1/4"	1-1/2"	-	-						
SK-1	KITCHEN SINK	1/2"	1/2"	1-1/4"	1-1/2"	-	-						
WB-1	WASHER BOX	1/2"	1/2"	1-1/2"	2"	-	-						
WC-1	TANK TYPE WATER CLOSET	1/2"	1/2"	1-1/2"	3"	-	-						

eague.

Municipal

DUCT SMOKE DETECTOR. INSTALLED BY M.T.C.

PROVIDED AND WIRED BY E.T.C.

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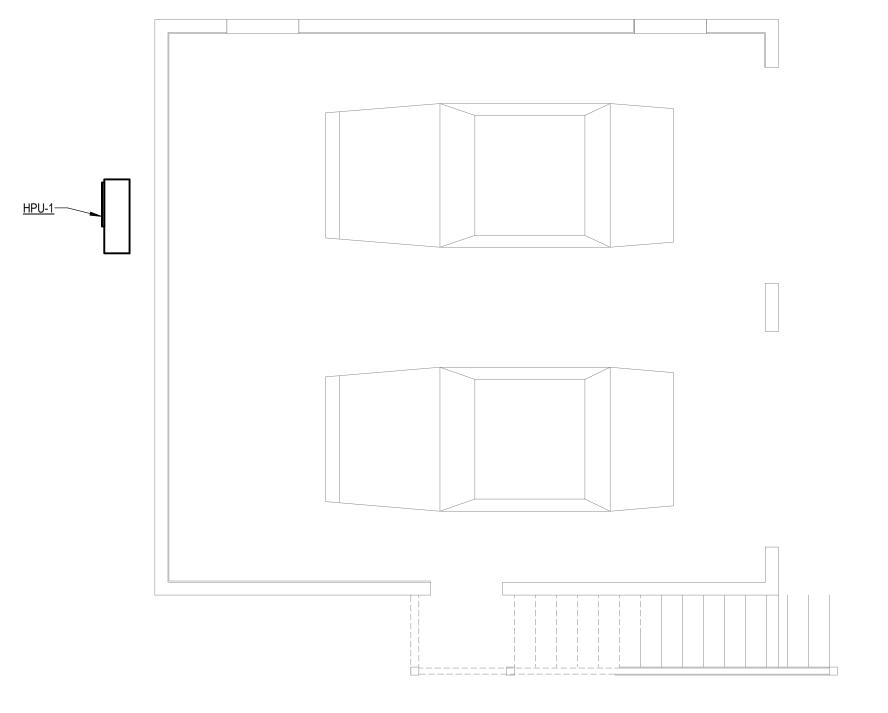
HVAC COVER SHEET

M0.1

dimensions only.

AHU AND ALL DUCTWORK ROUTED THROUGH ATTIC CEILING S.A. REGISTER (TYP) ATTIC ACCESS DOOR RETURN GRILLE W/ SOUND LINED DUCT WALL CAP—

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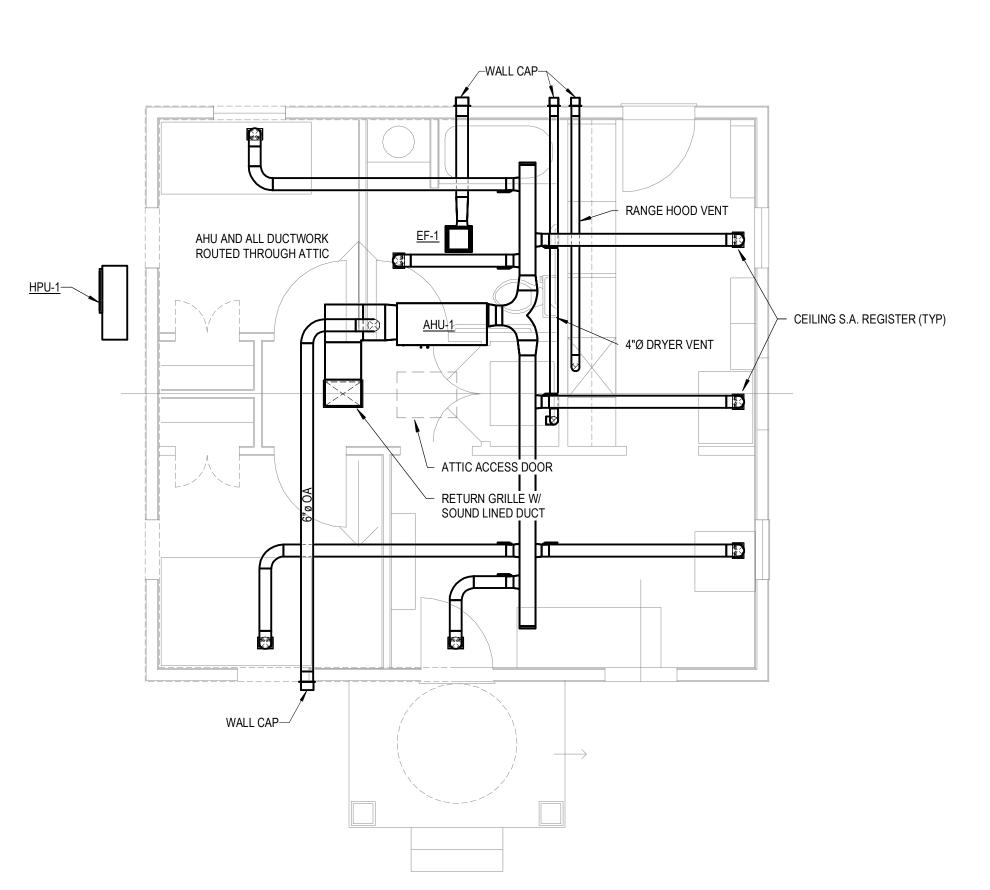


ACCESSORY DWELLING UNIT MAIN LEVEL -



ACCESSORY DWELLING UNIT UPPER LEVEL W1.1 SCALE = 1/4" = 1'-0"





BARRIER FREE MODULE - HVAC

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

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Job Number: 2023xx

HVAC DETAILS & SCHEDULES

15 October 2023

Do not scale.

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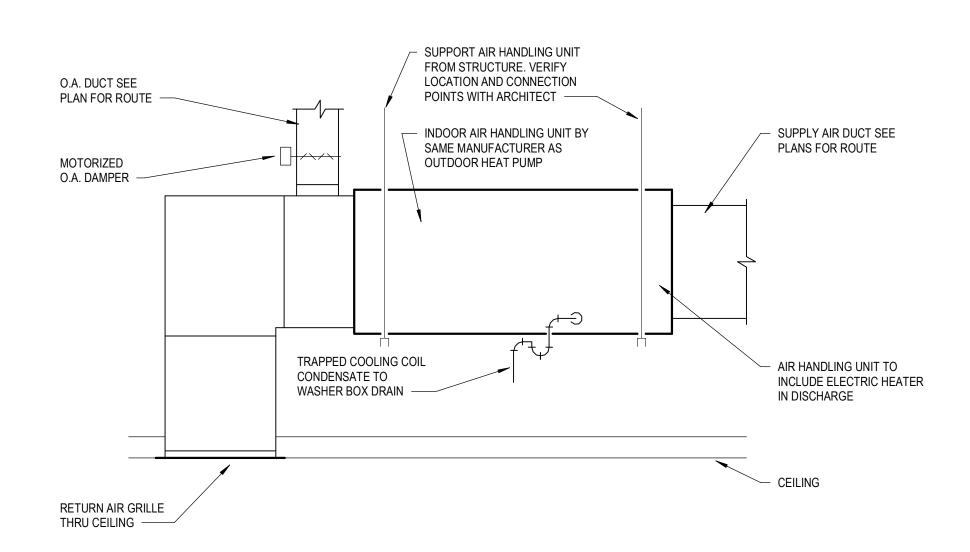
TAG	BASIS	OF DESIGN	CFM	E.S.P.	FAN SPEED (RPM)	DRIVE TY	/PF S	SONES	ELE	CTRICAL DAT	ГА	DISCONNE	CT BY V	FD	CON	ITROL		COMMENTS
17.0	MANUFACTURE	R MOI		(in-wg)	DESIGN	5		_	WATTS	VO	LTAGE	M.T.C.	E.T.C.		33.			
EF-1	Greenheck	SP-LF	P0511 80	0.28	831	DIREC	Т	2	11	120	0V / 1Ø	Х	1	lo LO	CAL SWITCH			1, 2, 3
ALL HAVE SE PROVIDE WIT PROVIDE WIT PROVIDE WIT JUIT SHALL O JUIT SHALL F CONNECT MO	TH FACTORY CONTRO ETTINGS FOR 7-DAYS OF TH CONDENSATE DRA TH ELECTRIC REHEAT GUNIT FAN AND CONT TH 1" MERV 8 FILTER. COMMUNICATE WITH COMMUNICATE WITH CONTONICALL DTORIZED OUTSIDE A CITY WITH LOCAL CLI	4- PERIODS. N SENSOR TO COIL. ELECTRI ROLS POWER ONDENSING U Y COMMUTATI R DAMPER TO	SHUT-DOWN UNIT I IC HEAT TO HAVE SE ED FROM OUTDOOF JNIT TO MATCH CAP ED MOTOR (ECM) FO SUPPLY FAN CONT	N THE EVEN EPARATE PO R UNIT. ELEC ACITY TO DE DR SUPPLY F ROL. DAMPE	ERMOSTAT THA T OF CONDENS WER CONNECT CTRIC HEAT TO EMAND AND FUI FAN. ER SHALL OPEN	AT WILL COO FATE DRAIN E TION. HAVE SEPAF RNACE FAN I	RDINATE T BLOCKAGE. RATE POWE SPEED.	HE OPERAT ER CONNEC	ION OF THE	SCHI AIR HANDLIN			HERMOSTA		SIGN CONDITION WINTER: 0°F OUTSII 70°F IN	SUN DE		B OUTSIDE B INSIDE /B INSIDE
	BASIS OF DESIG	N				Alf	R FLOW DA	ιΤΑ		HE	AT PUMP C	APACITY (ME	BH)			ELECTRICA	_ DATA	
ΓAG					OUTDOOR UNIT					AT AHRI CO		AT CON	ΓED	SEER2	EER2	ELECTRIC	HEAT	
					1	SUPPLY		OUTSIDE			HEATING	COOLING	HEATING	1		1		+
MA	NUFACTURER I	IODEL NO.	DESCRIPT	ION		CFM	E.S.P.	AIR CFM	REFRIG.	COOLING		@ 95°F	@ 0°F		kw	MCA	VOLTAGE	COMME

FTQ24TA Multi-Position Air Handling Unit HPU-1 680 0.5 45 R-410A 24 27 21.5 27.0 15.2 10.3 5 29.9 230V / 1Ø 1, 2, 3, 4

EXHAUST FAN SCHEDULE

1. PROVIDE WITH ELECTRONICALLY COMMUTATED MOTOR WITH CONSTANT CFM ADAPTIVE, VARIABLE SPEED TECHNOLOGY PROGRAMMED TO OVERCOME THE STATIC PRESSURE ASSOCIATED WITH COMMON RESIDENTIAL INSTALLATION SCENARIOS.
2. FOR SIDE WALL DISCHARGE: PROVIDE WITH WALL CAP INCLUDING BIRDSCREEN AND BACKDRAFT DAMPER.
3. FOR ROOF DISCHARGE: PROVIDE WITH ROOF CAP/JACK INCLUDING BIRDSCREEN AND BACKDRAFT DAMPER.

			HEA	T PUMI	P UNIT	SCHED	ULE					
2. PROVIDE WITH 3. PROVIDE EQUIF 4. PROVIDE WITH 5. UNIT SHALL CO	HAIL GUARDS. PMENT STANDS SUCH T INVERTER (VARIABLE SI MMUNICATE WITH AHU	HAT UNIT IS INSTALI PEED) COMPRESSC TO MATCH CAPACIT	R TO AIR HANDLING UNIT SCHEDULE FOR LED 24" MIN. ABOVE GRADE. R. Y TO DEMAND AND AHU FAN SPEED. DNS, SITE ORIENTATION, AND ENERGY CO		IONS AND CAPACIT	IES AT THOSE CON	DITIONS.					ER TO FAN COIL SCHEDULE ES AT DESIGN CONDITIONS.
	BASIS OF D	DESIGN					RATED C	CAPACITY	ELECTRICAL		DATA	
TAG MANUFACTURER MODEL DESCRIPTION INDOOR UNIT REFRIGERANT NOMINAL TONS COOLING HEATING MCA MOCP VOLTAGE COM										COMMENTS		
HPU-1	Daikin	RZQ24TAVJUA	Outdoor Split System Heat Pump Unit	AHU-1	R-410A	2	23.4	27.4	16.5	20	208-230V / 1Ø	1, 2, 3, 4, 5, 6



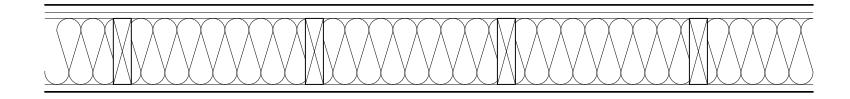
HORIZONTAL AIR HANDLING UNIT DETAIL

M6.1 NOT TO SCALE

Michigan Residential Code 2015

R302.3 Two-family dwellings.

Dwelling units in two-family dwellings shall be separated from each other by wall and floor assemblies having not less than a 1-hour fire-resistance rating where tested in accordance with ASTM E119 or UL 263. Fire-resistance-rated floor/ceiling and wall assemblies shall extend to and be tight against the exterior wall, and wall assemblies shall extend from the foundation to the underside of the roof sheathing.



UL U305 - 1 hour 7.25" thick STC 51

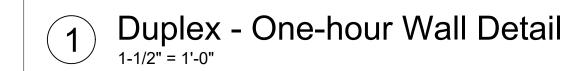
Gypsum Panel 1 layer 5/8" Sheetrock Gypsum Panel (UL Type SCX)

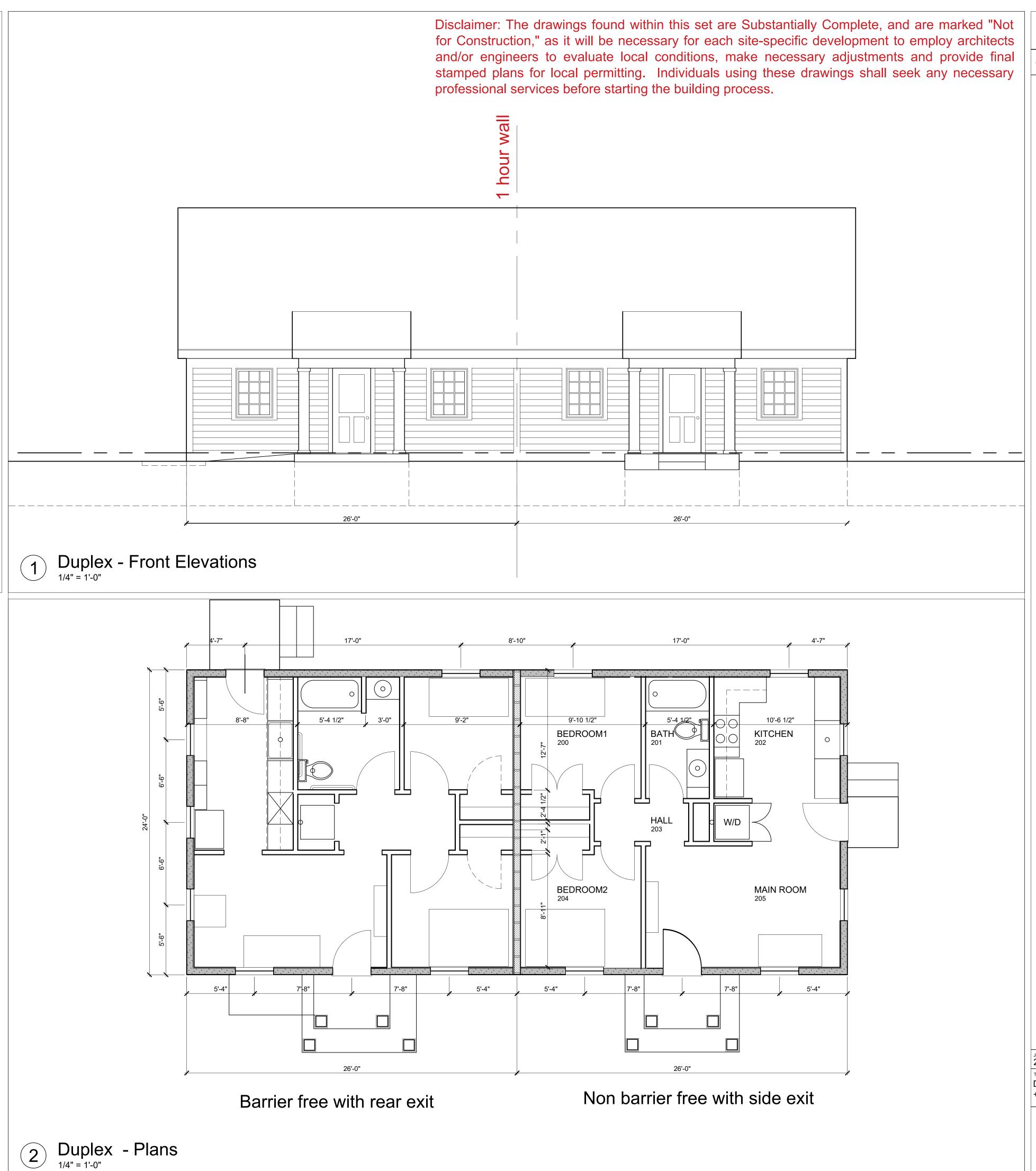
Resilient Channel 1 layer 1/2", 25 ga. 24" o.c

Wood Studs 1 layer 2x6 wood studs, 16" o.c.

Insulation 1 layer 5-1/2" Fiberglass insulation

Gypsum Panel 1 layer 5/8" Sheetrock Gypsum Panel (UL Type SCX)





Do not scale.
Use figured dimensions only.

MML Review Set

15 October 2023

T FOR CONSTRUCTION

THE ABBOT Michigan Municipal League

Job Number: 2023xx

Title:
DUPLEX PLANS
+ ELEVATIONS

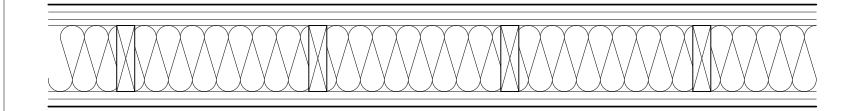
X4.1

Michigan Residential Code 2015

A single family dwelling unit constructed in a group of three or more attached units in which each unit extends from foundatin to roof and with a yard or public way on not less than two sides.

R302.2 Townhouses

Each townhouse shall be considered a separate building and shall be separated by a 2-hour fire-resistance-rated wall assembly tested in accordance with ASTM E119 or UL263 with exposure from both sides.



UL U301 - 2 hour 8.50" thick STC 56

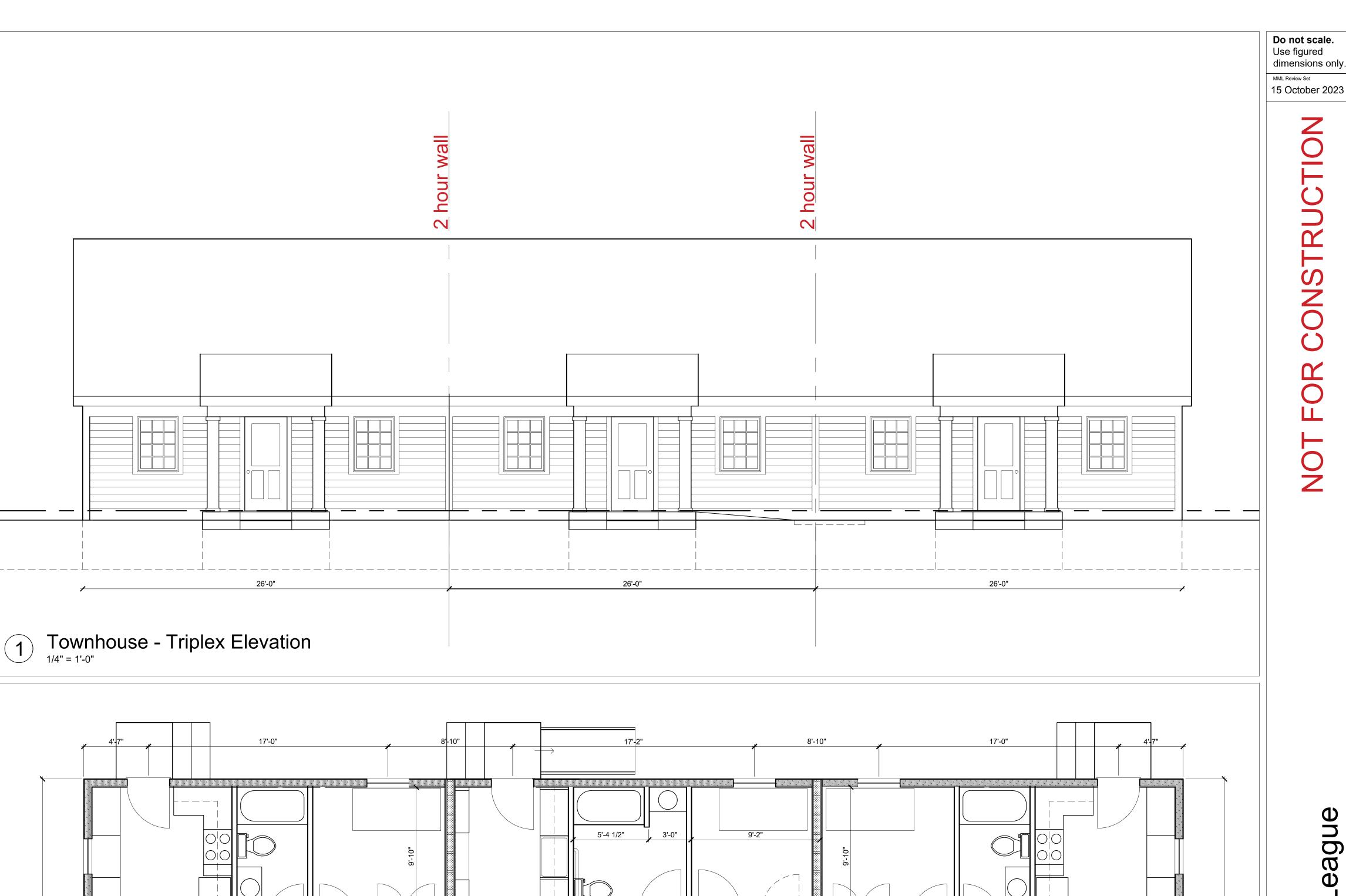
1 layer 5/8" Sheetrock Gypsum Panel (UL Type SCX) Gypsum Panel 1 layer 5/8" Sheetrock Gypsum Panel (UL Type SCX) Gypsum Panel

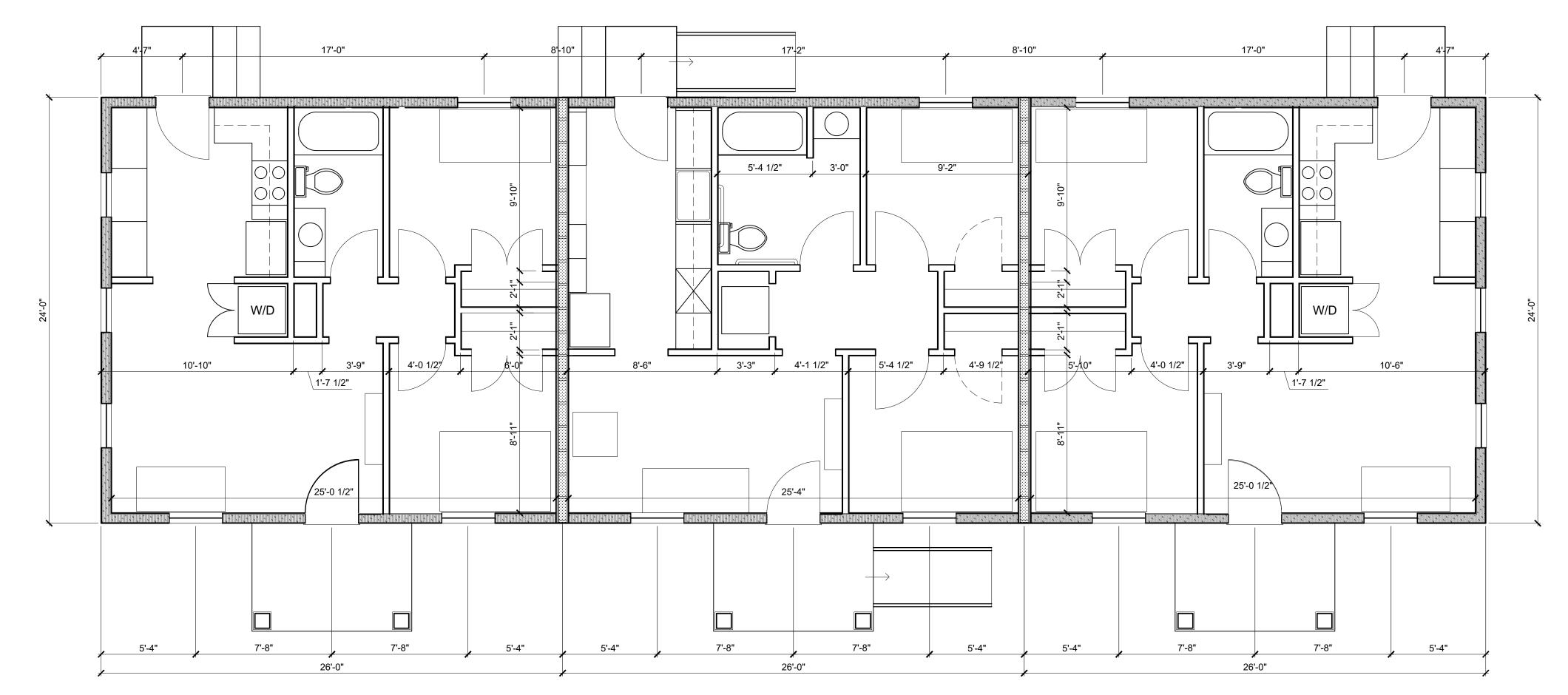
Resilient Channel 1 layer 1/2", 25 ga. 24" o.c Wood Studs 1 layer 2x6 wood studs, 16" o.c. 1 layer 5-1/2" Fiberglass insulation Insulation

1 layer 5/8" Sheetrock Gypsum Panel (UL Type SCX) Gypsum Panel 1 layer 5/8" Sheetrock Gypsum Panel (UL Type SCX) Gypsum Panel



Disclaimer: The drawings found within this set are Substantially Complete, and are marked "Not for Construction," as it will be necessary for each site-specific development to employ architects and/or engineers to evaluate local conditions, make necessary adjustments and provide final stamped plans for local permitting. Individuals using these drawings shall seek any necessary professional services before starting the building process.





(2) Townhouse - Triplex Plans

Do not scale. Use figured dimensions only.

League Municipal ABBO Michigan

Job Number: 2023xx

TRIPLE PLANS + ELEVATIONS

X5.1