

Old West Church Food Forest tool Storage Shed MockUp and Architectural Detail

Old West Church United Methodist
131 Cambridge Street, Boston, MA
02114

Old West Church Food Forest Tool Storage Shed Mockup and Architectural Detail

Mockup Photos

Construction Materials Detail

Roofing Detail

Architectural & Construction Drawings

Appendix

Mockup Photos



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Mockup Photos Lynde & Cambridge Streets



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08/10/2022

Construction Materials:

Floor	
	2x8x8' PT Floor Joists (16" Centers)
	2x4x8' PT (facia boards)
	4x8x1/2" CDX Ground Contact PT Plywood
	2 x 6 Joist Hangers (Simpson Strong-Tie)
Walls	
	2x4x8' Studs (16" Centers), upper & lower plate
Doors	
	Everbilt 3 1/2" Black Heavy Duty Tee Hinges
	Everbilt 6" Black Rotating Post Hasp Latch
	Internal Locking assemblies (4" barrel Bolt)
	2x4x8' construction grade for frame
MonoSlope Roofing	
	2x6x10' Rafters/Ceiling Joists (20" Centers)
	4x8x1/2" CDX Ground Contact PT Plywood
	GAF WeatherWatch 36"x50' Roll Roofing
	Ready Slate, 142 sq. ft
	Aluminum drip edging (8' length)

Fascia / Ext.Trim Boards	
	3/4 x 7 1/4/ x 8' Azek trim boards
Siding	
	4'x8'x7/16 SmartSide 38 Series CedarTexture Engineered wood/pre-primed
Paint	
	Premium Exterior Latex Paint
Silicone Caulking	
	DAP Alek Fast Dry (per tube)
Nails/screws/fasteners	
	Roofing Nails, 5 lbs/box
	Framing Nails 50 lbs/box
	Sheeting nails, 1 lbs/box
Misc. Hooks/Hangers	
	Misc. Materials to hang tools, wheel Barrell, etc.

Does not include aggregate to be used for footings

Construction Materials: Exterior Paint



Construction Materials: Exterior Siding

LP SmartSide 38 Series Cedar Texture Panel,
Engineered wood, 4' x 8' paintable



Roofing: ReadySlate

ready>>slate

DISTRIBUTED BY:

VERMONT SLATE CO.



READYSLATE® panels are composed of two layers:

- **Support layer:** Waterproofing bituminous self-adhesive membrane.
- **Visible layer:** High quality hand-quarried natural slates with a density of of 81 lb/ft³. Individual slates are predrilled and marked with an overlapping reference in order to simplify the installation process

DESCRIPTION

Panel	2-layer construction	51.2"x 13"
Toplayer	6 x natural slates	12"x 8"
Bottomlayer	SBS waterproofing membrane	-
Natural slate	Tectonic natural slate	Ø4 mm predrilled holes
Weight	4.2 lbs/sqft	55 lbs/box

*See appendix for Ready>>Slate brochure
and technical/installation guide*

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Roofing Detail: ReadySlate Mono Sloop Roof Installation

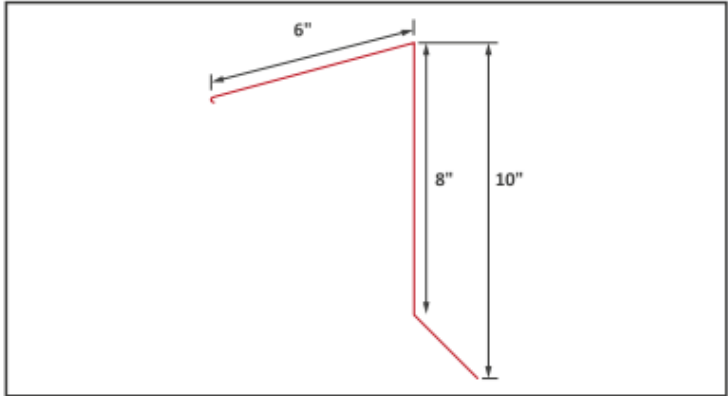
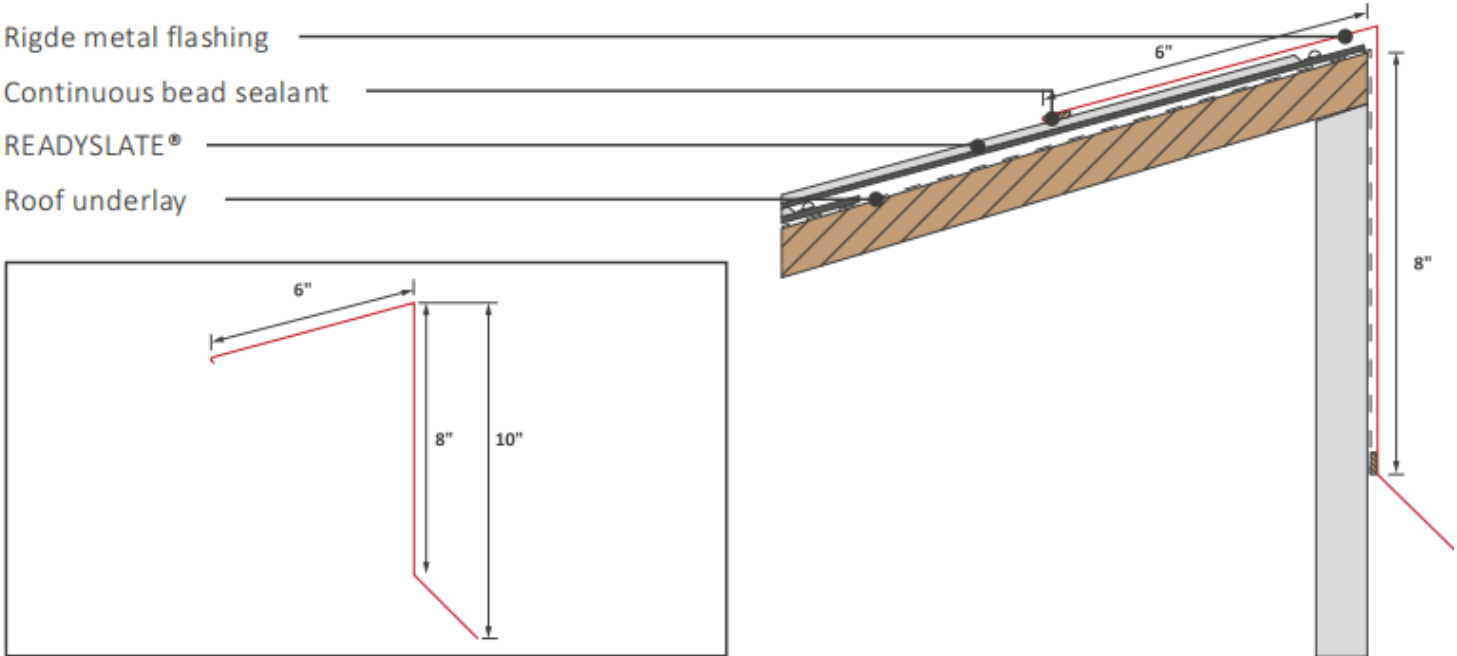
d. Monopitch ridge

Rigide metal flashing

Continuous bead sealant

READYSLATE®

Roof underlay

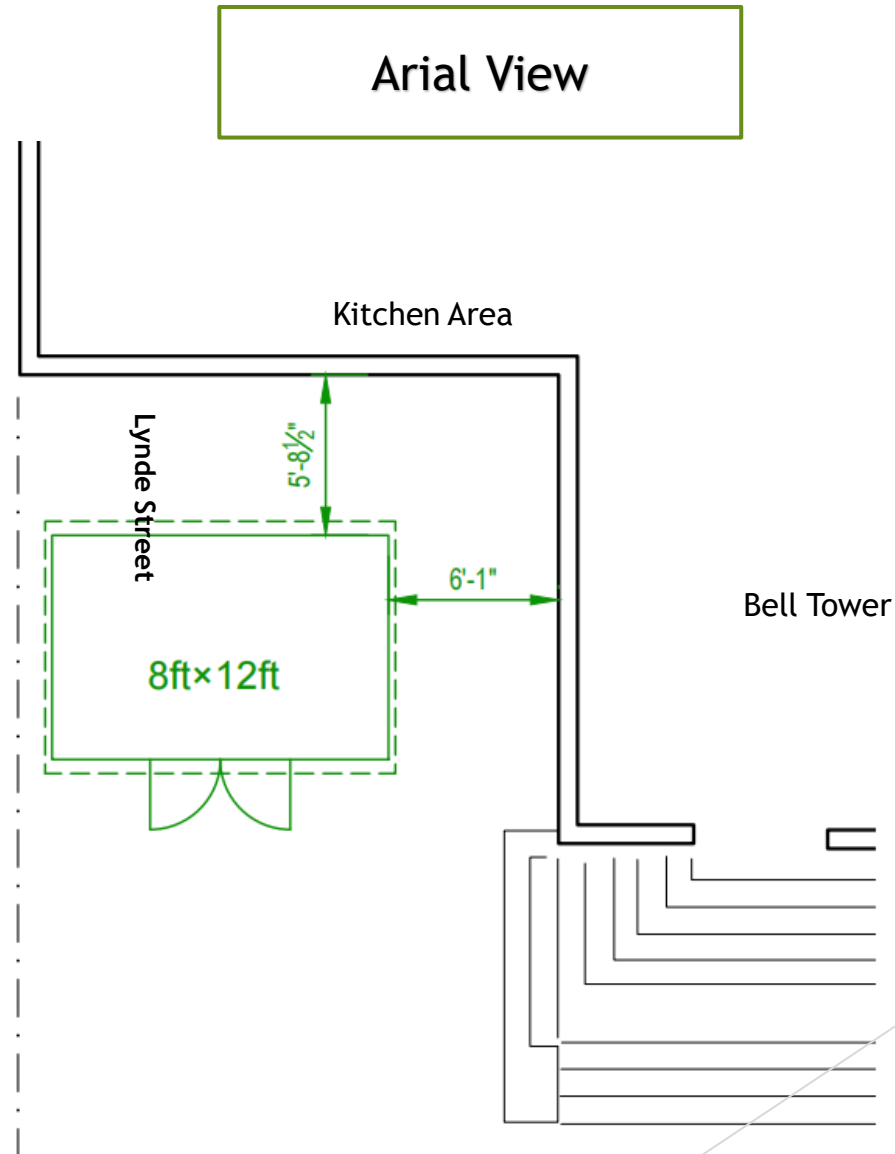


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ARCHITECTURAL DRAWINGS

Old West Church Food Forest Tool Storage Shed Proposal

Arial View



ARCHITECTURAL DRAWINGS

Old West Church Food Forest Tool Storage Shed Proposal

Front Elevation

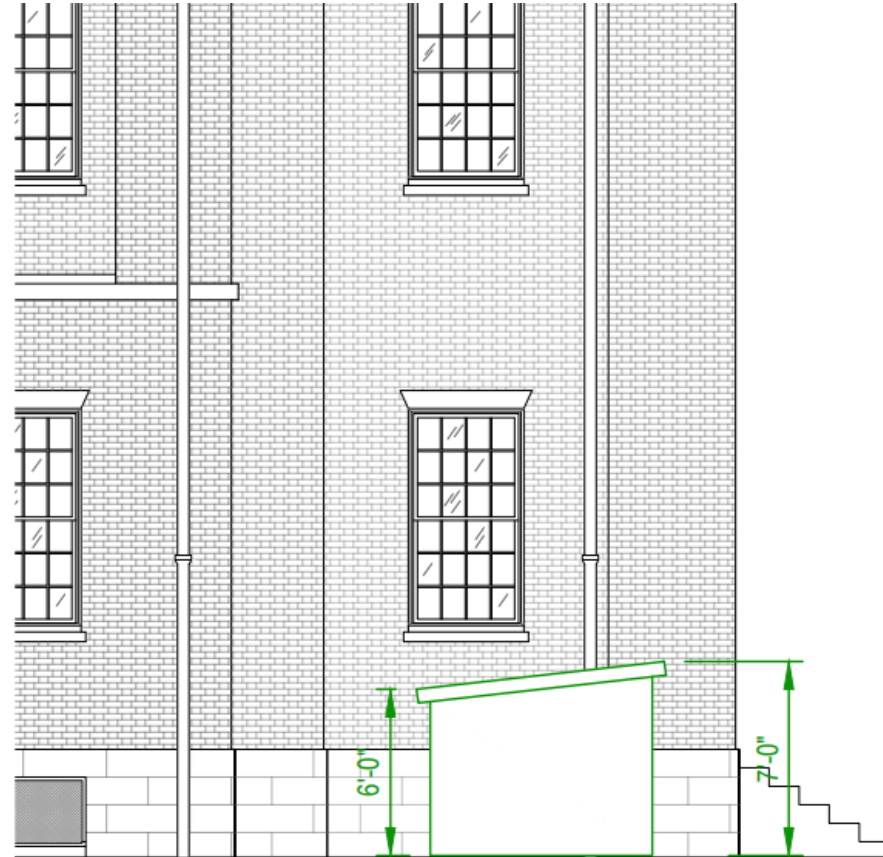


Cambridge Street

ARCHITECTURAL DRAWINGS

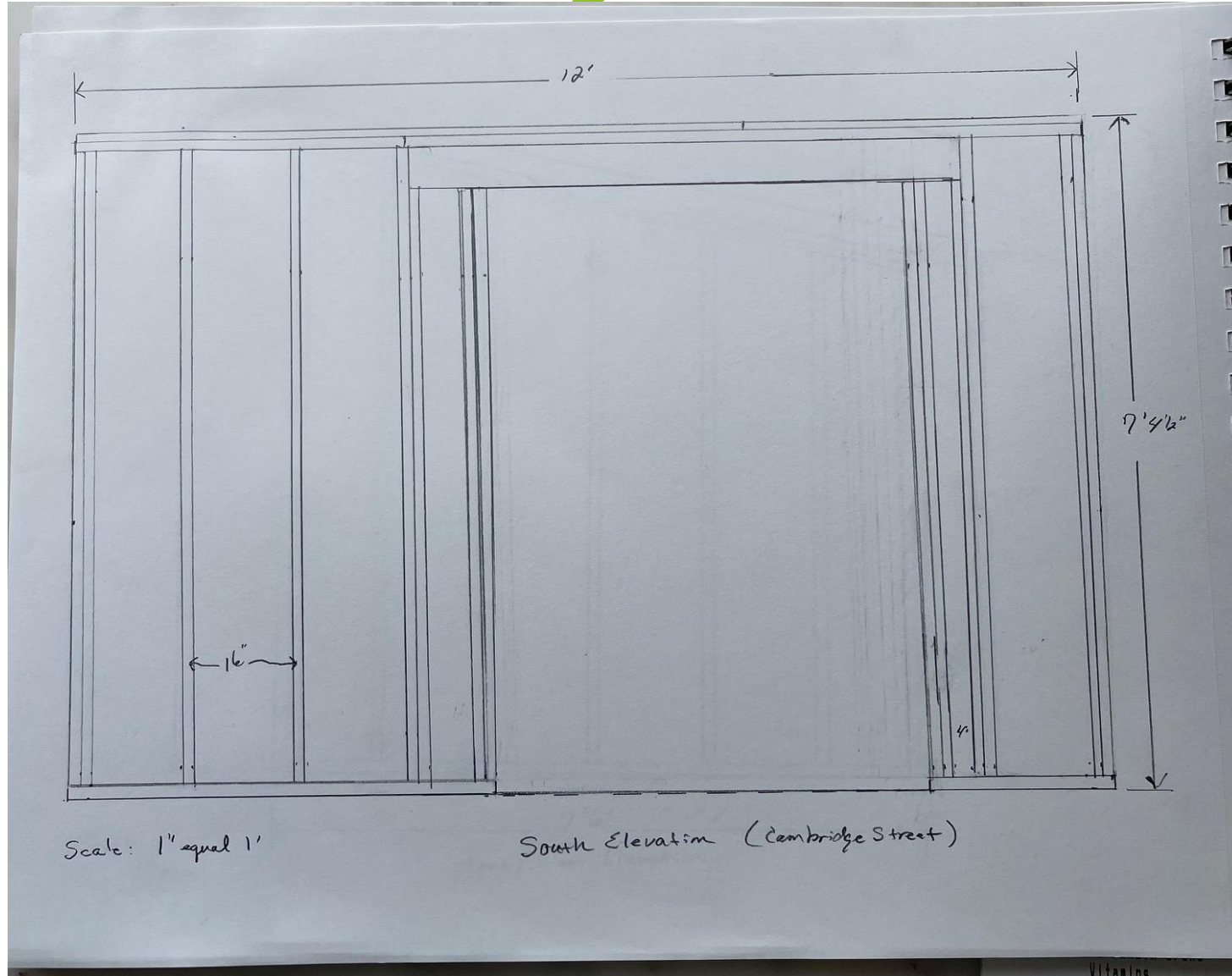
Old West Church Food Forest Tool Storage Shed Proposal

Side Elevation

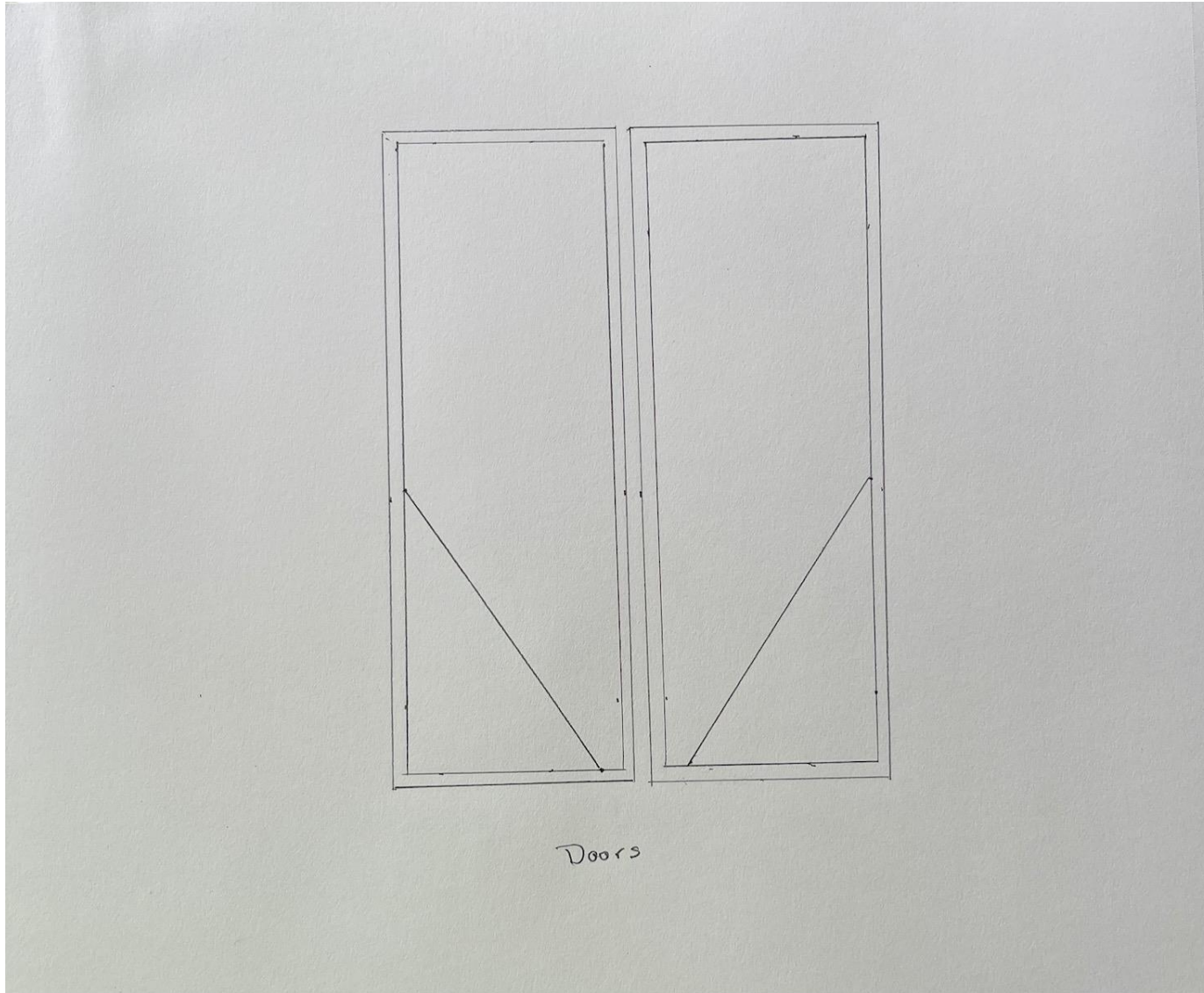


Lynde Street (Alley)

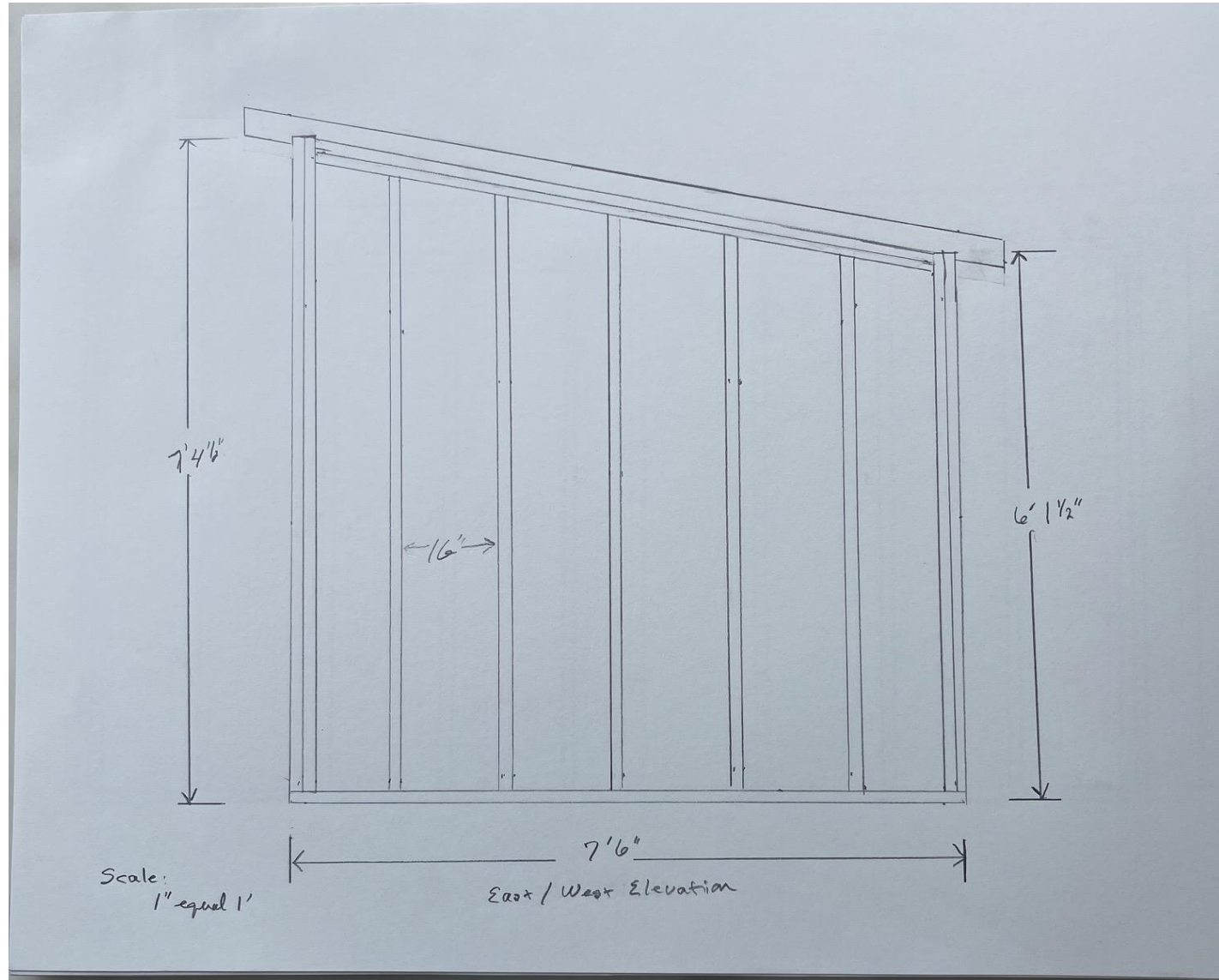
Construction Drawings



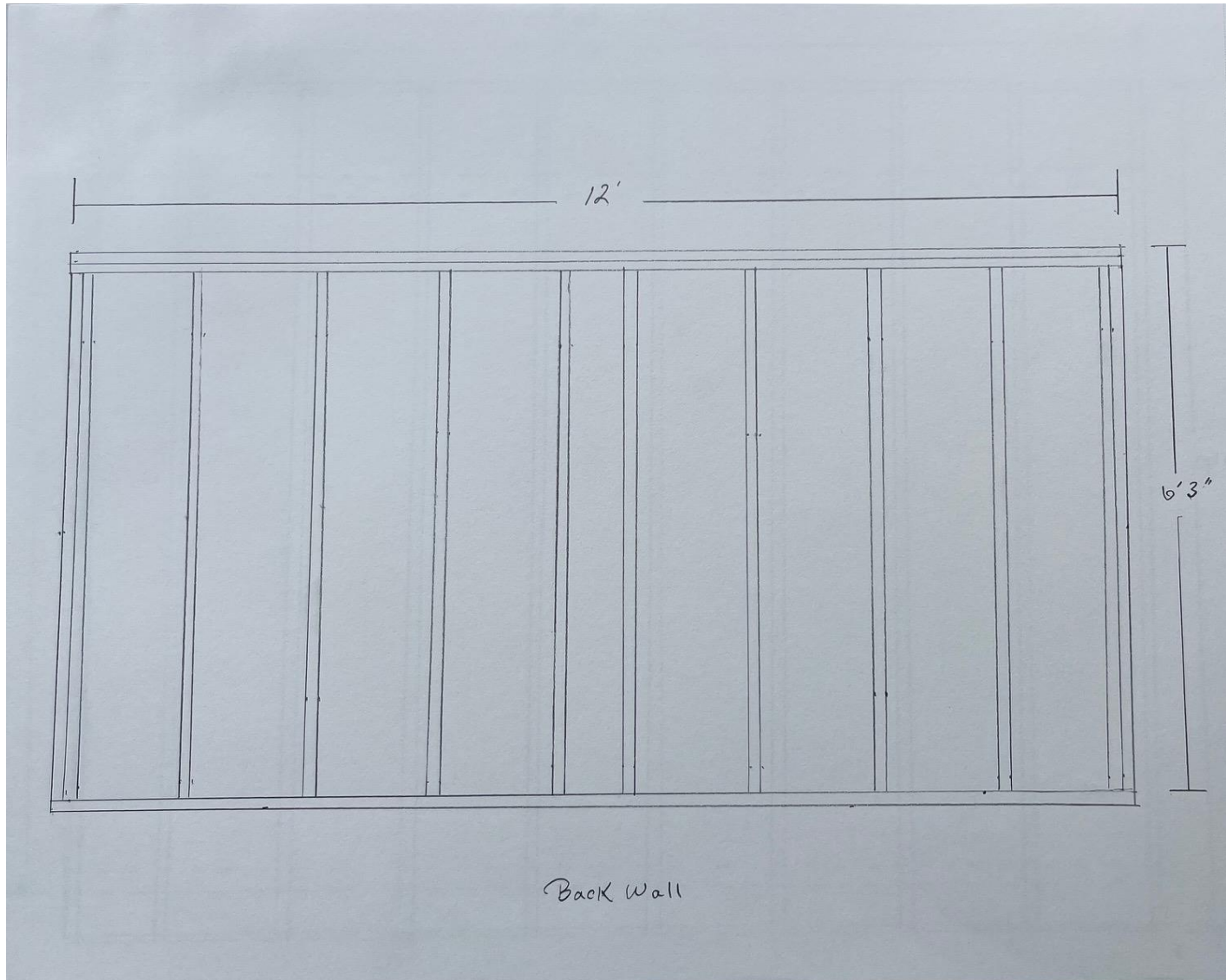
Construction Drawings



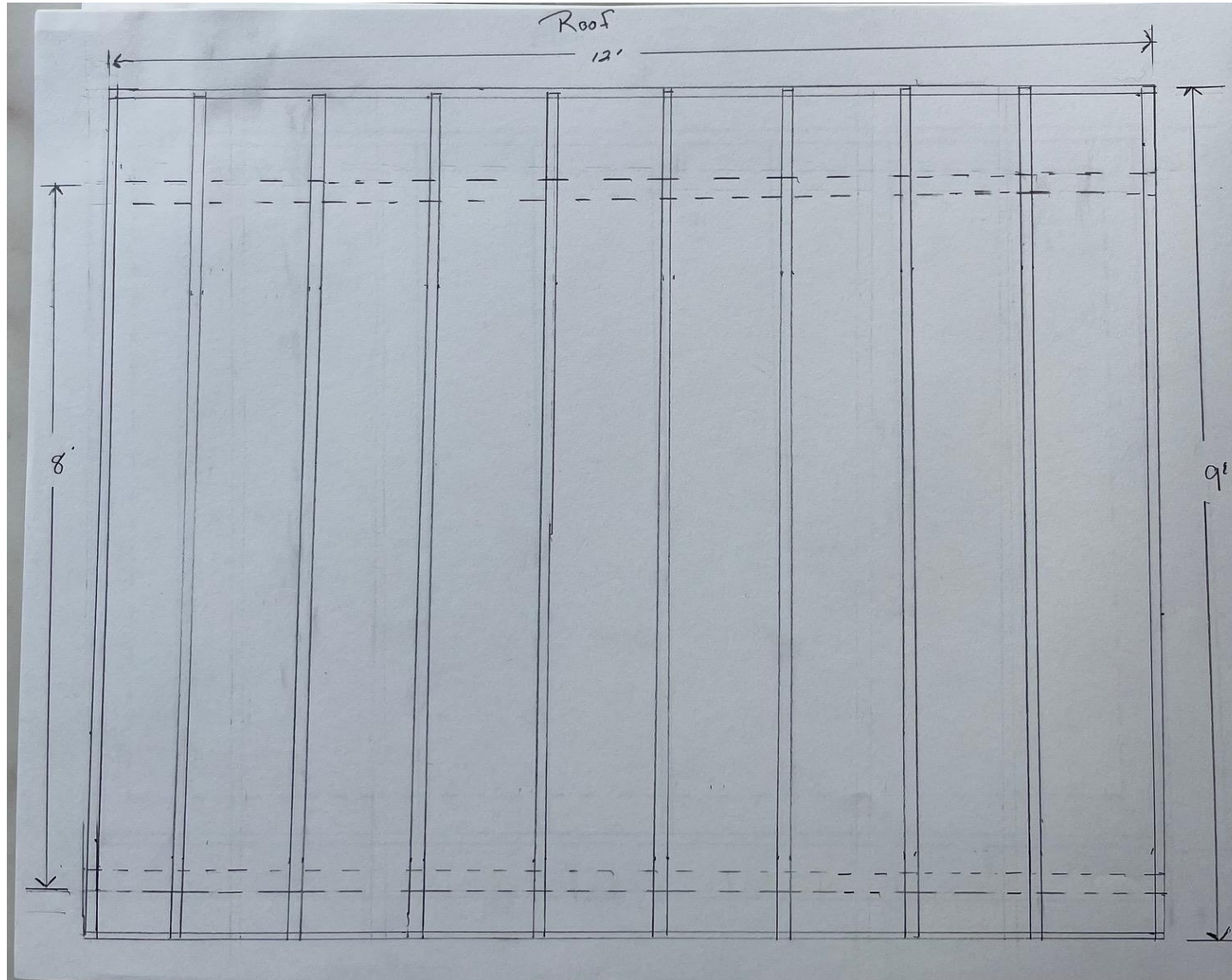
Construction Drawings



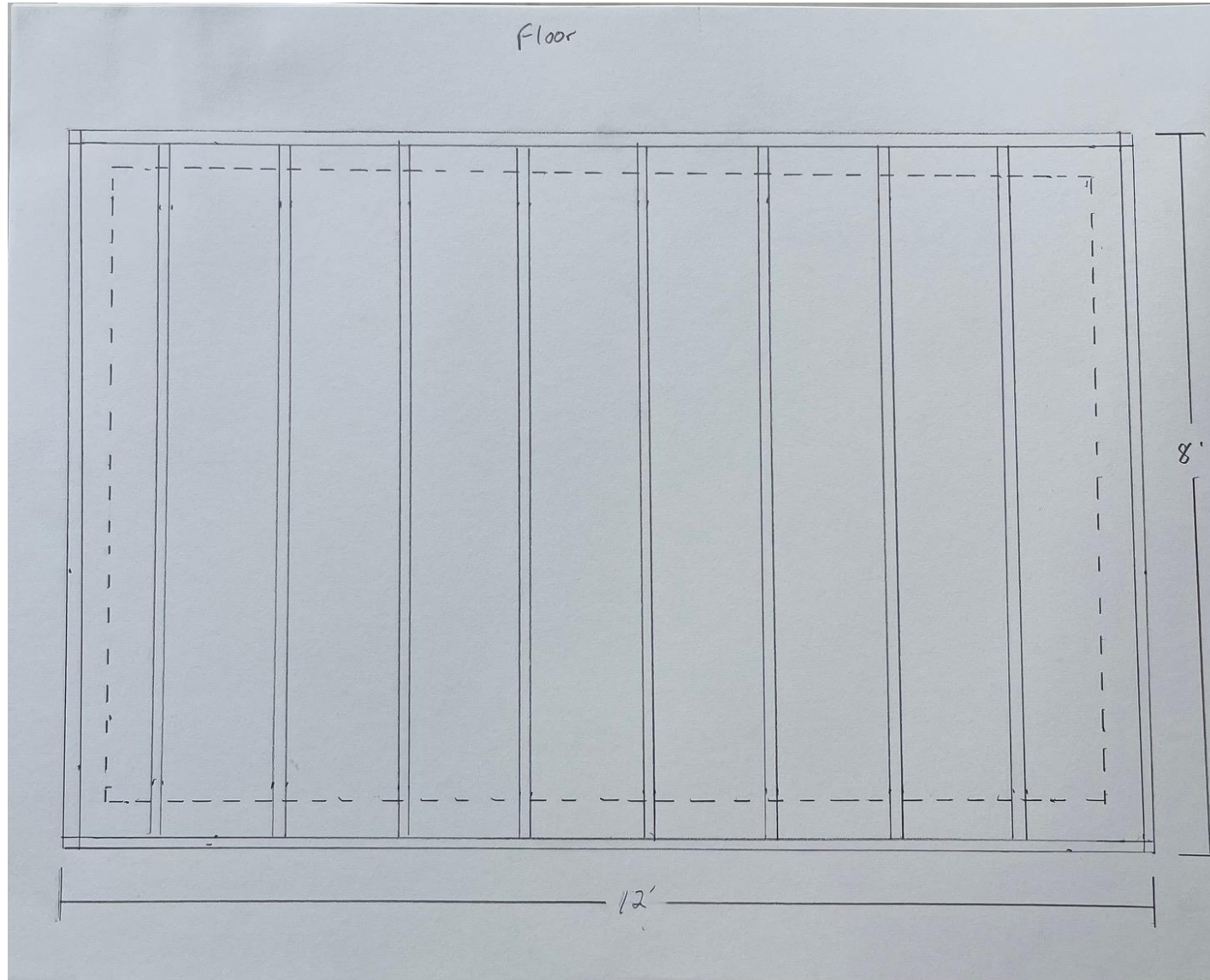
Construction Drawings



Construction Drawings



Construction Drawings



Thank You from the Leadership Team Old West Church United Methodist

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APPENDIX



1- Readyslate Technical Guide_US 2-6-21.pdf



Brochure22_READYSLATE_US_web.pdf

Old West Church Food Forest Tool Storage Shed Proposal

BACKGROUND

- ▶ Consistent with our core value focused on food justice, in 2014, Old West embarked on a mission to transform the church yard into a Food Forest
- ▶ We leveraged relationships with the Boston Food Forest Coalition and other urban farming organizations for guidance
- ▶ On a very limited budget we:
 - ▶ Deep tilled the soil and composted the entire yard to promote improved soil structure and establishing organic matter in the upper layers of the soil
 - ▶ Created an herb garden with potted herbs on the front steps of Old West
 - ▶ Constructed keyhole planting beds and filled with organic compost to begin some vegetable gardening.
 - ▶ From generous donations from a retiring local farmer and members of the congregation, we began to accumulate tools to work the fledgling food forest
 - ▶ Tools were stored in stairways, alcoves and even the sanctuary inside Old West
 - ▶ In 2018, a 5' x 7' metal shed was donated to Old West and erected on the east side of the bell tower but, the number of tools we've assembled to maintain the Food Forest has outgrown the capacity of such a small structure

Old West Church Food Forest Tool Storage Shed Proposal

BACKGROUND

- ▶ In 2019, we were the recipients of a significant grant from the Edmund Ingersoll Browne Fund enabling Old West to realized our dream of transforming the church yard into a Food Forest
- ▶ Delayed more than 12 months by the Coronavirus pandemic, in early 2021, we engaged a landscape architect to design the Food Forest and broke ground on our Food Forest/Pollinator Garden on April 6, 2021
- ▶ ADA paths and raised beds were constructed (filled with organic compost) and prepared for planting
- ▶ Greater than 1500 perennial plants were planted in the area designated as Pollinator Garden
- ▶ 11 apple trees and a plum tree were planted to add to the existing 2 apple trees and 2 cherry trees
- ▶ Vegetable and berry crops were planted

Old West Church Food Forest Tool Storage Shed Proposal

BACKGROUND

- ▶ Throughout 2021, in support of our gardening efforts, a reasonable volume of additional tools have been acquired (purchased or donated) to support the work the Food Forest and Pollinator garden requires
- ▶ With the additional tools we have very much outgrown the existing 5' x 7' storage shed
- ▶ From our initial larger volume crop year, we've learned we need space to prepare some vegetables for long term storage
 - ▶ E.g. Onions and Garlic need to be properly dried on shelves to enable them to be kept
 - ▶ Heirloom Corn can be harvested and dried to the correct moisture content
- ▶ It would also be consistent with our core values if we had sheltered space to use to plant seeds in pots in the late winter/early spring and then transplant seedlings from small to larger pots in preparation for planting in the Food Forest

Old West Church Food Forest Tool Storage Shed Proposal

PROPOSAL

- ▶ Construct an 8' x 12' "Lean-Too" style shed on the west side of the Old West Church bell tower
 - ▶ "Lean-Too" style referring to a single slope roof
 - ▶ Replace the current 5' x 7' metal shed
 - ▶ Provide storage of tools & supplies in service of our ongoing food justice ministry
 - ▶ Lower profile structure to reduce drawing attention to the shed, away from Old West
 - ▶ Adequate height for ergonomic walk in and inside work
 - ▶ Adequate space to house all tools
 - ▶ If space allows, add drop down shelves for use as potting shelving, bulb drying, etc.
 - ▶ Once a new shed is constructed, the existing 5' x 7' aluminum shed would be removed from the premises.

Old West Church Food Forest Tool Storage Shed Proposal

DESIGN CONCEPT

- ▶ Lean-Too style can be built with a lower overall profile making it less visible from the street(s) and obstruct less of the brick/granite facade of Old West
 - ▶ Overall height of the building was settled upon to prevent the building from attracting attention away from the historic Old West Church building
- ▶ To the extent possible, the shed will be constructed with sustainable materials to be as ecologically conscience as possible
- ▶ The shed will be placed to enable easy access to the façade of Old West for maintenance if / as needed and to avoid potential snow build up against the OWC foundation in the winter. *(see drawings later in this presentation)*

Old West Church Food Forest Tool Storage Shed Proposal

CONSTRUCTION PLAN AND MATERIALS

- ▶ Shallow (6" +/-) footing trench will be dug
- ▶ To create a rodent barrier, the footing trench will be backfilled with a 3-inch layer of $\frac{3}{4}$ inch clean white rock/limestone
- ▶ A 3" layer of crushed stone (decomposed granite) will be layered and leveled over the clean stone
- ▶ The foundation will be 5' x 5' rough cut cedar timbers placed on the leveled footing
 - ▶ Rough cut cedar timbers are weather resistant and are generally maintenance free
 - ▶ The foundation timbers will be anchored using 18" x $\frac{3}{8}$ " rebar
- ▶ Given the slope of the church yard in the designated area, this should result in no more than 3 - 5 inches of the cedar foundation exposed.

Old West Church Food Forest Tool Storage Shed Proposal

CONSTRUCTION PLAN AND MATERIALS

- ▶ Floor Construction:
 - ▶ 2" x 6" PT Double sill plate
 - ▶ Floor Joists: 2" x 6" PT wood, 16" centers
 - ▶ Floor Deck: 4' x 8' x $\frac{3}{4}$ inch marine plywood
- ▶ Wall Construction:
 - ▶ Studs: 2" x 4" x 6' - 7'-foot lengths, 20" centers
 - ▶ 4' x 8' exterior vertical board siding
- ▶ Door Construction
 - ▶ 5-foot x 6 $\frac{1}{2}$ foot tall center opening double barn style doors
 - ▶ Each door will be 2 $\frac{1}{2}$ foot wide x 6 $\frac{1}{2}$ foot tall
 - ▶ One door will be left hand pull, One door will be right hand pull
 - ▶ Plan to use period looking black enameled hinge/latch/handle hardware

Old West Church Food Forest Tool Storage Shed Proposal

CONSTRUCTION PLAN AND MATERIALS

- ▶ Roof Construction
 - ▶ Rafters: 2" x 6" pine on 20" centers
 - ▶ Decking: 4' x 8' x 15/32" plywood sheathing
 - ▶ #30 saturated felt moisture barrier
 - ▶ Aluminum drip molding
 - ▶ Slate shingles
 - ▶ Single 4" gutter, down spout, etc.
- ▶ Unless otherwise requested, paint and shingle colors will be selected to blend/coordinate as much as possible with the façade of Old West and not distract attention from Old West
 - ▶ Likely a granite color paint and gray slate shingles
- ▶ Plan to construct a "living wall" / trellis on the Cambridge street side of the proposed shed to further hide the shed from public view

ARCHITECTURAL DRAWINGS AND PHOTOGRAPHS

Street / Pedestrian Views of Proposed Shed Site from Old West Side of Cambridge Street

Red oval in a photo indicates proposed shed location



ARCHITECTURAL DRAWINGS AND PHOTOGRAPHS

Street / Pedestrian View of Proposed Shed Site from Across Cambridge Street

Red oval in a photo indicates proposed shed location

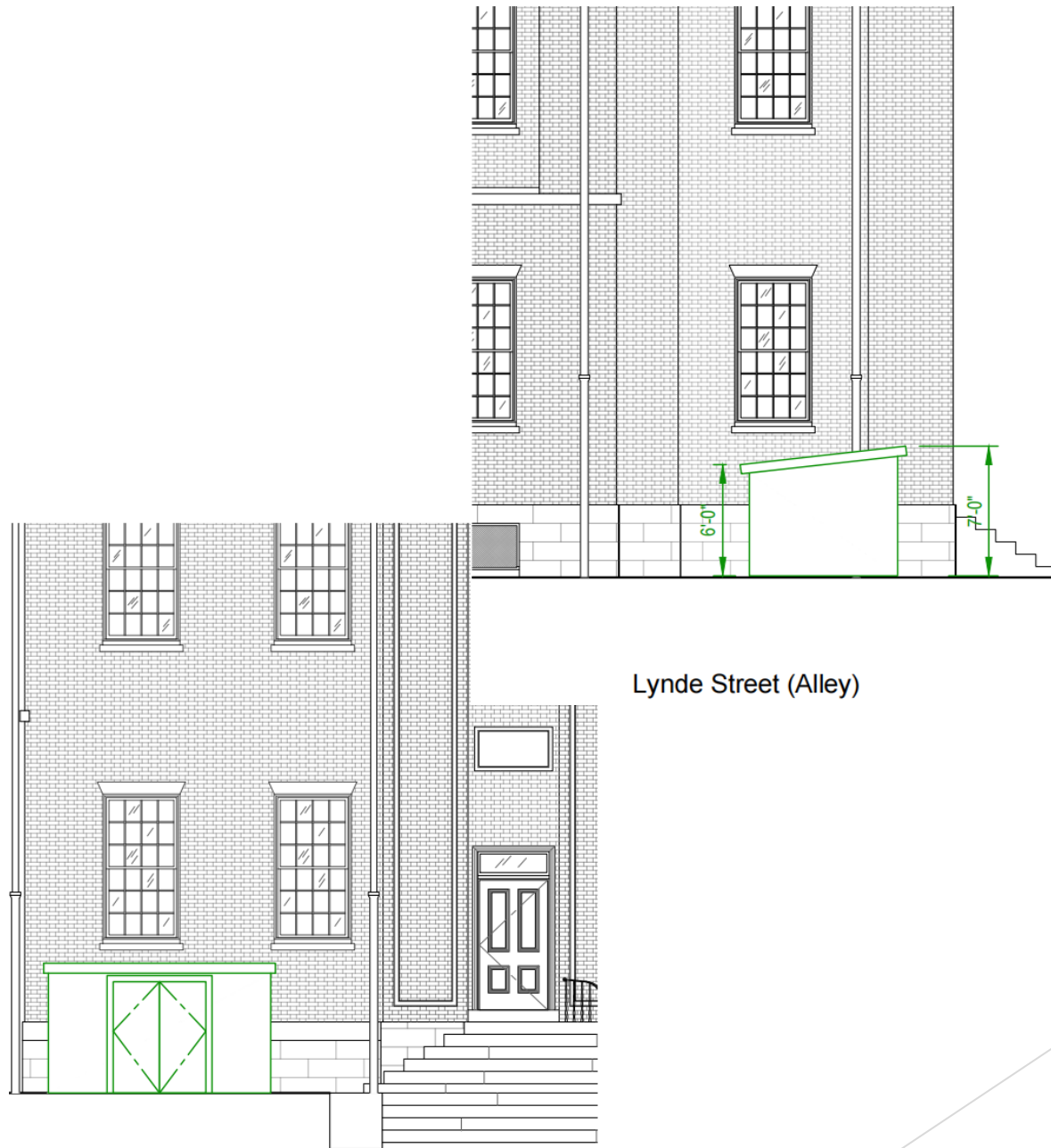
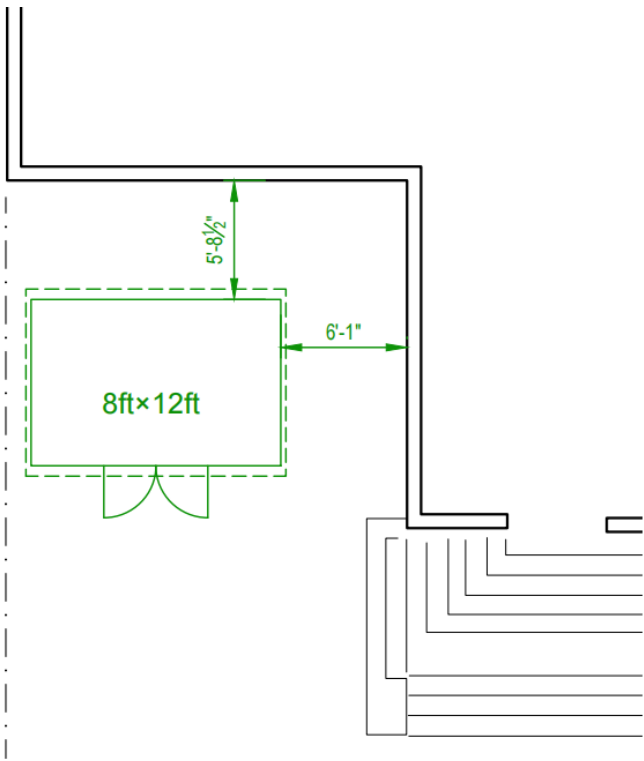


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