Demonstration House Project for:

ST. Vincent De Paul Society

Energy Studies in Buildings Laboratory
Center for Housing Innovation
University of Oregon
SSIC Demo Disclaimer

The University of Oregon DISCLAIMS all warranties express and implied (including the WARRANTY OF MERCHANTABILITY) of the St. Vincent dePaul Society stressed skin insulating core panel demonstration house plans or of their adequacy, suitability, completeness, safety, structural integrity, fitness for any particular site or habitation or occupant activity or of any labor, services, material or equipment which might be supplied or furnished in using the plans or of any structure, completed or otherwise, which might be made by use of such plans.
8. 4 in. thick framing members (4x4, 4x6, 4x8, & 4x12) shall be free of heart center.
10. Must be pre-cut and precut by manufacturer with a minimum of 10% waste.
12. Roof sheathing for garage, porch, and end walls: OSB or OSB rated 9000. 14 lbs. To be applied.
15. Gutters: 6" continuous roll downspout27"x27" pre-painted white 28 gage galvanized steel. Gutters to be seamless. Provide basket strainers at each downspout.
5. Exterior doors at each entrance. 1" Cedar "Thermat" Insulation Board 600 series with reflective film on both sides. Cut to fit in the T1-24 sequence. Continuous caulk on all edges.
6. Caulking: Paintable 15-year acrylic latex plus sillcone. Apply at all exterior fixed joints and other noted locations to provide wind and air tight seal.

DIVISION 8 - DOORS AND WINDOWS
1. Exterior doors at house: 6-8 insulated steel or fiberglass, simulated-panel, pre-hung. Sidelight: insulated, tempered, 3/6" clear glass. Exterior swinging door at garage: solid core wood door with single light, pre-hung AWI custom pane. 2. Overhead garage door: Wood clad door by Overhead Doors or its equivalent with glass lights, low heat hardware, and automatic door opener.
3. Interior doors (glazed bi-fold; flush, paint-grade birch, pre-hung except as noted on plans. 4" "Duro pores" 8RA/8, 8D 100 insulated carbon.
4. Hardware manufacturers:
   a. Locks and lever by Kwikset
   b. Butt by Stanley (3 per door)
   c. Thresholds and door bottoms by Penko
5. Roll-up doors for exterior:
   a. RFP 175-4
   b. RFP 170-5.5
   c. Flex stop
Type 1:
1012" in width x push button lock
1024" in width x cylinder deadbolt
103Threshold in width: extending door bottom
Weathershielding
Type 2:
104" in width x push button lock
4012" in width x cylinder deadbolt
4024" in width x cylinder deadbolt
403Threshold in width: extending door bottom
Weathershielding
Type 3:
105" in width x push button lock
4012" in width x cylinder deadbolt
4024" in width x cylinder deadbolt
403Threshold in width: extending door bottom
Weathershielding
Type 4:
1012" in width x cylinder deadbolt
Door Stop 300
Door Stop 400
4002" in height on door
Door Stop 104:
4012" in height on door
Door Stop 404:
4012" in height on door
4024" in height on door
403Threshold in width: extending door bottom
Weathershielding
5. Exterior Stormo Doors. Bell Knob USB
6. Attic storage access doors: 10/4" birth ply, back-vented, finished similar to adjacent wall.

8. Skylights: Custom, model no. 46907VGS with step flashing kit, model no. 4690L, polo operated or approved equal. Provide a pole for each skylight. Provide insect screens.

9. Relfight glazing: 10'6" single glaz.  

DIVISION 9 - FINISHES  

1. Gypsum board: 1/2" on first floor ceiling only, 1/2" thick elsewhere. Light texture finish throughout. Gypsum board applied to GSB on exterior walls and second floor ceiling shall have joints staggered from GSB joints 12" minimum. Gypsum board to be vapor-resistant around tub, protect joints, cut edges and pipe openings with sealant. Secure all gypsum board with screws. Use metal trim for external corners and exposed edges.

2. Carpet: Atlas, Oxford Plaza 36 oz. level loop, minimum number of seams. Pad to be S6, 1/2" Subreem foam, FHA approved.

3. Sheet vinyl: Tarkett "Coordinate," 58%, 12" width required to reduce number of seams.

4. Vinyl base: Flans 4" core rubber base, 1/8".

5. Metal edge strips: Nailock.

6. Primers, filters, adhesives, and cleaners to be approved by floor manufacturers. Leave floor covering remnants over 5" of job site. Flooring and base colors to be selected by architect.

7. Paint: Finish all exterior and interior surfaces unless specifically excised. Prepare surfaces per manufacturer's instructions. Color schedules to be provided by Architect.

Interior:  
All gypsum board surfaces to be painted with Gil Ham Interior-Aid latex primer. Finish coat to be flat Gilbad Speed 2000 except at bathrooms which shall be semi-gloss Gilbad Speed 2000. All trim to be primed with semi-gloss Gilbad Speed 2000. Oak stair landing and treads to be sanded and filled with paste wood filler per manufacturer's instructions. Finish with three coats of Flets Diamond Venetian gloss finish per manufacturer's instructions.

Passamall at stair opening to be filled, sanded, primed and painted to match adjacent wood trim.

Paint out duct openings visible through grilles and registers. Ductwork, piping, etc. in unfinished areas shall receive to finish.

Exterior:  
Walking surfaces of porches to be painted and primed with Gilbad Speed Floor Polyurethane Enamel No. 800. All other wood surfaces to be painted with Gilbad Ole-Oakly No. 5601. Unprimed metal surfaces to be painted with Gil-Gard Allied Purpose Metal Primer No. 4522. Top coat to be Gilbad Speed House Paint, Durasatin Finish No. 2600 except doors and all trim which shall be Gilbad Speed House Durasatin Finish No. 2600.

Paint lattice prior to installation. All under-floor lumber that is visible within four feet from exterior walls of the house shall also be painted.

8. Closets to be finished similar to adjacent room.

9. ANSI Water Closet: Millenium finished, tile, NC Range 65 - 75 or greater. 15"2 Aceastone or equal. Apply over gypsum board before installation of mechanical equipment.

10. Garage to have no interior finish except for painted doors and door trim. Color to be selected by Architect.

DIVISION 11 - EQUIPMENT  

1. Washer/dryer, refrigerator and range provided by Owner.

2. Range Hood: by Brass, 100 C.F.M., 75W bulb, ducted, white.

DIVISION 12 - FURNISHINGS  

1. Window blinds: Ovation line by Levelor. Color to be selected by architect.

DIVISION 13 - MECHANICAL  

1. House Supply: 1-3/8" galvanized steel supply line from meter to 1-1/4" shut-off in utility box. Install temporary manifold with three 3/4" hose bibs at location indicated on plan until structural testing is complete; afterward replace with single permanent hose bib.

2. Fixture Supply: Minimum 3/4" copper, soldered with lead-free solder, galvanized protection at joint to steel supply line, shut-off in utility box at house and stops at all fixtures.


4. Water Heater: To be part of Enviroheat HPVAC-60 ventilating heat pump unit by Thermo- Storm Products Group. Provide with overflow pan. Install on 3" non-compressible foam bottom board.

5. Interior Vent: Studi Mini-Vent air admittance valves per manufacturer's instructions. Exterior vent: 3" Schedule 40 ABS plastic.

6. Provide R-11 insulation with protective covering at exposed water supply lines and any tags below floor level to prevent freezing. Make straight seals around supply and waste penetrations through floor.

7. Base bibs: Merrill Manufacturing frostproof yard hydrant No. C7515 except three temporary hose bibs installed for duration of structural testing.

8. HVAC system: Enviroheat HPVAC-60 by Thermo-Storm Products Group. Use resilient mounts to dampen vibrations.

9. Locate fresh air intakes 6'-0" minimum away from kitchen exhaust vent.

10. Fresh air intakes: Fresh air ventilators by Thermo-Storm Products Group as indicated on plan.

DIVISION 14 - ELECTRICAL WORK  

1. Connect smoke detectors to house power and locate a minimum of 5'-0" upstream from any exhaust air grille.


3. Wall heaters: by Cadet. 1500W Advantage at bedroom, 1500W Advantage at living room, and 500W Hidden Heat TK-621ST at second floor bathroom. Advantage heater to be controlled by integral thermostate. Hidden Heat TK-621ST to be connected to spring timer switch per plan.

4. Test equipment: install only conduit and junction boxes as indicated on the electrical plan. Instruments and related low voltage wiring will be installed prior to testing by research technician.

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FRAMING DETAILS FRONT CORNERS (EVT)

NOTES:
- ALL WORK ON THIS SHEET IS INCLUDED IN ADDITIONAL SHEET.
- ROOF: 3-TAB COMPOSITION SHINGLES, 15# FELT PER SHINGLE. MEETS RECOMMENDATIONS, SFI, OSA.
- MANUFACTURED TRUSSES AT 9'-0" O.C., 24" FASCIA, GUTTER AND DOWNSPOUT (DRAIN TO STREET), 24" RAKE BOARD. ATTACH TRUSSES WITH H-S CLIPS (EPPS) TO TOP PLATE.
- WALLS: 2x4 STUDS @ 24" O.C., 15# STUDS AT SOUTH WALL, PT. 3/4 PLATE, DOUBLE TOP PLATE, 3/8" DURATEMP BEING LAPED TOP PLATE AT GABLE ENDS AND LAP FOUNDATION WALL. 1" FLASH HORIZONTAL JOINTS WITH ZINCAL-VENT AS SHOWN. NAIL PLY WITH 8D GALVANIZED NAILS, 6" O.C. AT PANEL EDGES, 4" O.C. AT TOP AND BOTTOM PLATES AND 8" IN FIELD. EXCEPT 2 ROOF 4" O.C. AT SOUTH WALL AT CORNERS AND AROUND DOOR OPENING. DOUBLE 2X4 HEADER AT DOOR. 1X4 CORNER TRIM. HOLD UNTREATED METALS MINIMUM 8" FROM SOIL.
- FOUNDATION: SPACE UP TO 2X10, 2X12 ANCHOR BOLTS MAX 8'-0" O.C. AND MIN. 18" FROM CORNERS AND SPACED EXCEPT SOUTH SIDE (SEE DETAIL 171).

WEIGHT ELEVATION (NOT ELEVATION SIMILAR)

BUILDING SECTIONS

FLOOR PLAN

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