Building Phases

Phases, Activities, Resources and Estimates

Order of Operations

Site Setup			
This phase includes preliminary work for getting the site ready			
Activities		Performed By	Described In
 Site clearing Permitting Surveying Set up temporary electric Acquire the Port-a-John Contractor Contractor HFH Staff Contractor HFH/Contractor Contractor 		3 – Foundation	
Predecessors N	lone		
Duration 6	to 8 weeks		

House Foundation				
> This phase	This phase includes activities to create the house foundation.			
Activities		Performed By	Described In	
 Pour the bas Insulate the Gas and wat	terior drainage sement walls basement walls ter services r/Replace the sewer	Contractor	3 – Foundation	
Predecessors	Site Setup			
Duration	2 to 3 weeks			

First Floor Deck		
This phase will include all work to build the first-floor deck		
Activities	Performed By	Described In
Install the sill platesInstall the basement bearing walls	Volunteers	5 – Decks

 Install the stre Install the dee Install the guardinate 	cking	
Predecessors	Foundation	
Duration	2 – 3 weeks	

First Floor Framing

- > This phase will include all activities to install the first floor wall panels.
- > For one-story houses, this phase will include the interior stairway.
- This phase maybe delayed until the Adopt-A-House team or Project Lead is available.
- If pre-built walls will be used, this phase must be coordinated with delivery of the walls.

Activities	Performed By	Described In
 Install the first floor exterior and interior walls Install the basement stairs (1-story only) 	Volunteers	6 – Walls 4 – Framing Materials & Tools
Predecessors House Foundation		
Duration 1 week		

Concrete Porch Cap

- This phase includes activities associated with installing the concreate caps on the front and back porches.
 - This phase will be schedule as soon as the 1st floor exterior walls are complete.

Activities		Performed By	Described In
 Insulation foundation wall behind the porches 		Volunteers	6 – Walls
Forming and pouring the caps		Contractor	
Predecessors	First Floor Framing.		
Duration	3 days		

Porch Framing

- > These activities will be performed after the porch cap is poured.
- If the contractor is delayed, these activities can be performed using alternative post bases.

Activities		Performed By	Described In
Install the po	rch posts and beams	Volunteers	7 – Porch Framing
Predecessors	Concrete Porch Cap First-floor wall framing		
Duration	1 week		

Second Floor Deck > For two-story houses, this phase will include all of the work to build the second floor deck and the interior stairways. Activities Performed By **Described In** Volunteers 10 – Scaffolding Install the interior Stairs 5 – Decks • Set up wall scaffolding • Install the floor joist and LVLs • Install the strong-backs • Install the decking • Install the guard rails First Floor Framing Predecessors Porch Framing 2 weeks Duration

Second Floor Framing			
For two-story houses, this phase will be performed to construct the second-floor walls.			
Activities	Activities Performed By Described In		
 Install the second-floor exterior and interior walls 		Volunteers	6 - Walls
Predecessors	Second Floor Deck		
Duration	1 -2 weeks		

Roof Framing

- > This phase includes all activities to prep and install the roof framing.
- At the Project Leaders discretion, this phase may also include prepping the gable end trusses with Styrofoam and siding.

Activities	Performed By	Described In
 Prep the roof trusses Install the cornice returns Set the roof trusses Install the sub-fascia Install the wind bracing 	Volunteers	8 – Roof Framing 11 – Exterior Insulation

Optional gab	le end prep		17 – Exterior Trim
o Exteri	or Dow Styrofoam		
o Frieze	e Board		16 - Siding
o Cornie	ce Covering		
o Soffits	s and Siding		
Predecessors 1 st and 2 nd Floor Framing			
Duration	1 - 2 weeks		

Roofing

> This phase includes all activities to install the roof sheathing and roofing.

Activities		Performed By	Described In
 Install the root Install the drive Install the weight Install the shift 	p edge eather shield	Contractors	9 - Roofing
Predecessors	Roof Framing		
Duration	ration 1 -2 days		

Walkways & Parking Pad

- > This phase includes activities for installing the concrete flat work
- This phase will be scheduled as early as possible after the roof framing is complete, depending on the contractor's availability.

Activities		Performed By	Described In
Form and po	our the porch steps our the sidewalks our the parking pad	Contractor	27 – Walkways & Parking Pad
Predecessors	edecessors Porch caps Roof Framing		
Duration	3 – 5 days		

Finish Framing & Fire Rating

- > This phase includes all activities to create framing for mechanicals and drywall.
- This phase also includes all activities required to create any fire-rated assemblies required.

Activities	Performed By	Described In
 Install the interior soffits & chases Install stair and cabinet blocking Build the basement shelving 	Volunteers	6 – Walls 13 - Finish Framing

plumbing ter	mmunication and mination boards all assemblies	15 – Rough Mechanicals
Predecessors	Second Floor Deck	
Duration	1 -2 weeks	

Water Plane, Windows & Doors

Fire-Rated Wall assemblies must be inspected before installing Dow over them

- > This phase will include all activities to "weather-in" a house.
- Once the house is weather-proofed, the contractors will begin the Rough-In Mechanicals.

Activities		Performed By	Described In
 Install the ex Install the fla Install the wi Install the ex 	ndows	Volunteers	11 – Exterior Insulation 12 – Windows & Doors
Predecessors	Wall Framing (Styrofoam on gable end trusses may be included in the Roof Framing) Fire-rated Wall Assemblies Roof Framing		
Duration	2-3 Weeks		

Exterior Trim

Porch Framing must be inspected before installing the porch trim

> This phase includes activities for installing porch, window and frieze board trim.

Activities		Performed By	Described In
with gable erInstall porchBuild porch r	trim	Volunteers	17 – Exterior Trim
Predecessors Duration	Porch Framing Roof Framing 1-2 Weeks		

Exterior Painting

This phase includes all activities for caulking and painting the exterior trim and doors.

Activities		Performed By	Described In
 Paint exterio Paint porch t Paint porch r Paint other e 	rim ailings	Volunteers	21 - Painting
Predecessors	Exterior Trim		
Duration	3 – 4 weeks		

Siding

\triangleright	This phase	includes	activities	s to	install	the e	xterio	or wall	со	veri	ngs.	
			-						-		-	

This phase will be performed in tandem with the Rough-In Mechanicals
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Activities	ities Performed By		Described In
 Install the J-blocks Install the siding Install the soffits Install the fascia 		Volunteers	15 – Rough Mechanicals 16 - Siding
Predecessors	Water Plane		
Duration	3 to 6 weeks (Volunteers)		

Pre-Mechanicals Air Sealing & Insulation					
This phase includes activities to seal chases and other areas which may be covered by HVAC and plumbing systems.					
Install bathtu	o enclosure sheathing Volunteers 14 – Air Sealing				
Insulate doub	 Insulate double walls and chases 				
Seal the base	Seal the basement slab				
Install the ba	Install the basement Thermax				
Predecessors	Finish Framing				
Duration	1 – 2 days				

Rough-In Mechanicals					
This phase includes activities to rough-in the HVAC, plumbing, gas and electrical systems.					
Activities	Performed By	Described In			
 Electrical wiring and boxes Plumbing lines Sump pump Radon system Water manifold Gas lines 	Contractors	15 – Rough Mechanicals			

Bathtub / she	nel and service ower (must be with the Pre-		
Predecessors	Framing Roof Framing Roofing Pre-Mechanical Air Sea Water Plane	aling	
Duration	1 -2 weeks		

Air Sealing

> This phase includes activities to seal exterior and plate penetrations.

Described In
14 – Air Sealing 19 - Insulation

Wall Insulation

Walls cannot be netted or insulated until the Structural inspection is complete.

> This phase includes activities to insulate the insides of the exterior walls

Activities		Performed By	Described In
Install insulation nettingInsulate the walls		Volunteers	14 – Air Sealing 19 - Insulation
Insulate joist bays		HFH Staff/ Volunteers	
Predecessors	Air Sealing		
Duration 1-2 Weeks			

Drywall Prep		
> This phase includes activities performed to prepare for the drywall installation.		
Activities	Performed By	Described In

 Clear work a tools Complete the Checklist 	reas of materials and e Pre-Drywall	Volunteers	20 - Drywall
Predecessors	Air Sealing Air Sealing and Insulation Aware, Thermal Bypass and Insulation inspections		pections
Duration	1 day		

Drywall			
 The drywall cannot be installed until AWARE Air Sealing, AWARE Insulation, City Insulation and Thermal Bypass inspections are complete. If any walls are part of a fire-rated wall assembly, the drywall cannot be finished until the fire-rated wall assembly is inspected. 			
basis. The drywall finishing will alway	The drywall will be installed by either volunteers or contractors on a case by case basis. The drywall finishing will always be performed by contractors. Estimated time for this phase is 7 to 10 days if only using contractors and 3 to 5 weeks for		
Activities	Performed By	Described In	
 Hang the drywall Finish the drywall Texture the ceilings Contractors 20 - Drywall 			
Predecessors Drywall Prep			
Duration 7 – 10 days			

Post Drywall Air Sealing and Insulation

This phase includes air sealing activities which are performed after drywall installation.

Activities		Performed By	Described In
 Caulk ceil Insulate the Insulate the In	0	Volunteers	14 – Air Sealing
Predecessors	Drywall		
Duration	1-2 Days		

Paint Prep		
This phase includes activities to prepare for painting		
Activities	Performed By	Described In

 Sand the floo Cleanout HV Clean walls a Clean the state 	AC ducts and floors	Volunteers	21 - Painting
Predecessors Drywall			
Duration	1 day		

Interior Painting

> This phase includes activities for covering the interior walls and trim with paint.

Activities		Performed By	Described In
 Paint the wa Paint the intervention Paint the Intervention Paint the state treads 	erior trim	Volunteers	21 - Painting
Predecessors	Post Drywall Air Sealing Paint Prep		
Duration	3 – 4 weeks		

Cabinets

> This phase includes activities for installing the kitchen and bath cabinetry.

Activities		Performed By	Described In
Install bathro tops	n cabinets n countertops oom vanities & sink for kitchen sink	Volunteers	22 - Cabinets
Predecessors Painting			
Duration 1 to 2 weeks			

Vinyl Flooring				
This phase includes activities for installing vinyl plank flooring.				
Activities	Activities Performed By Described In			
 Install the vinyl planks Install the transition strips 		Volunteers	25 - Flooring	
Predecessors	Cabinets			
Duration	2 – 3 weeks			

Interior Doors and Trim			
•	This phase includes activities for installing the interior doors, door casing, window trim, baseboards, knee wall caps and handrails.		
Activities		Performed By	Described In
ActivitiesPerformed ByDescribed In• Install pre-hung doorsVolunteers23 – Interior Doors and Trim• Install bypass doorsInstall casing22 - Cabinets• Install window trimInstall kick plates22 - Cabinets• Install cabinet trimInstall baseboardsInstall quarter round• Install knee wall capsInstall knee wall capsInstall handrailing• Install shoe molding (If needed)If needed)If needed		and Trim	
Predecessors	Vinyl Flooring		
Duration	2-3 weeks		

Finished Mechanicals			
This phase includes activities for completing the HVAC, plumbing, gas and electric systems.			
Activities Performed By Described In			Described In
 Electrical fixt Toilets Sinks Hot water tar A/C Condens All remaining 	nk	Contractors	24 – Finish Mechanicals
Predecessors	Painting, Cabinets		
Duration	1 to 2 weeks		

Interior Finishes			
This phase includes activities for installing the interior final items.			
Activities	Performed By	Described In	
 Install the door hardware Install the closet shelving Install the bathroom accessories & mirrors 	Volunteers	26 – Interior Finishes	

Install the wiInstall the do	oor viewers ome Owner Fire		
Predecessors	Interior doors and interior trim		
Duration	1 week		

Gutters & Downspouts

This phase includes the activities for installing the gutters.			
Activities		Performed By	Described In
Drop Eves/GuttersDownspouts		Contractor	18 – Gutters
Predecessors	Siding Exterior Painting Conductor Lines		
Duration	1 day		

Landscaping and Exterior Finishes			
This phase includes the activities for installing the landscaping materials and exterior final items.			
Activities		Performed By	Described In
 Install the bushes and trees Plant the grass seed Install other landscaping materials Install the mailbox Install the house numbers Install the splash blocks 		Volunteers	28 – Exterior & Landscaping
Predecessors	Walkways and parking pad Conductor lines Gutters and Downspouts		
Duration	1 to 2 weeks		

Carpeting			
This phase includes the activities for installing the carpeting			
Activities	Performed By	Described In	
CarpetingTransition strips	Contractor	25 - Flooring	

Predecessors	Interior trim Interior finishes
Duration	1-2 days

Clean-up and Final Inspections

This phase includes the activities for ensuring the house is clean and the work is complete.

Activities		Performed By	Described In
Perform F Inspection	e of Occupancy inal Walkthrough	Volunteers Habitat	29 – Clean Up 30 – Final Walkthrough
Predecessors	Everything except carpeting and landscaping (during winter months),		
Duration	1-2 weeks		

Appliances			
 This phase includes activities for installing the appliances. The microwave normally is installed with the final items. The remaining items will be installed just prior to closing 			
Activities Performed By Described In		Described In	
 Install the microwave Install the refrigerator Install the range Install the dishwasher 		Volunteers	31 - Appliances
Predecessors	Closing		
Duration	1 to 2 weeks		