



C00 PASSIVE HOUSE

ARTICLE 8 - RESIDENTIAL 1.0 (R-1.0) DISTRICT

USES BY RIGHT

- DETACHED SINGLE FAMILY DWELLINGS
- AGRICULTURE
- OPEN SPACE, PARKS AND TRAILS
- HOME OCCUPATIONS
- ACCESSORY USES

DEVELOPMENT STANDARDS FOR PUD

- MINIMUM LOT AREA SHALL BE 30,000 SQFT
- MAXIMUM DWELLING UNITS PER ACRE: 1
- NO STRUCTURES ARE PERMITTED IN A FLOODWAY OR AREA OF SPECIAL FLOOD HAZARD
- ACCESSORY STRUCTURE SETBACKS ARE SET FORTH BY ARTICLE 22 OF THE ZONING CODE
- MINIMUM LOT FRONTAGE ON A PUBLIC RIGHT-OF-WAY SHALL BE 30'
- MINIMUM LOT WIDTH SHALL BE 150'
- MAXIMUM GROUND COVERAGE FOR ACCESSORY STRUCTURES SHALL BE 900 SF PER ACRE

ZONING: R-1.0 + PUD OVERLAY

RESIDENTIAL 1.0 PUD

FRONT SETBACK: 40'-0"
REAR SETBACK: 40'-0"
MINIMUM SIDE SETBACK: 40'-0"

1 DWELLING UNIT / ACRE

ACCESSORY STRUCTURES ALLOWED
ACCESSORY STRUCTURES SHALL NOT EXCEED 12' IN HEIGHT AND
SHALL COMPLY WITH THE MINIMUM SETBACKS PROVIDED IN
ARTICLE 22 OF THE ZONING CODE

LOTS GREATER THAN 0.8/ ACRE MAX HEIGHT 28'-0"

LOTS UNDER 0.8/ ACRE MAX HEIGHT 26'-0"

MINIMUM OPEN SPACE 60% Lot

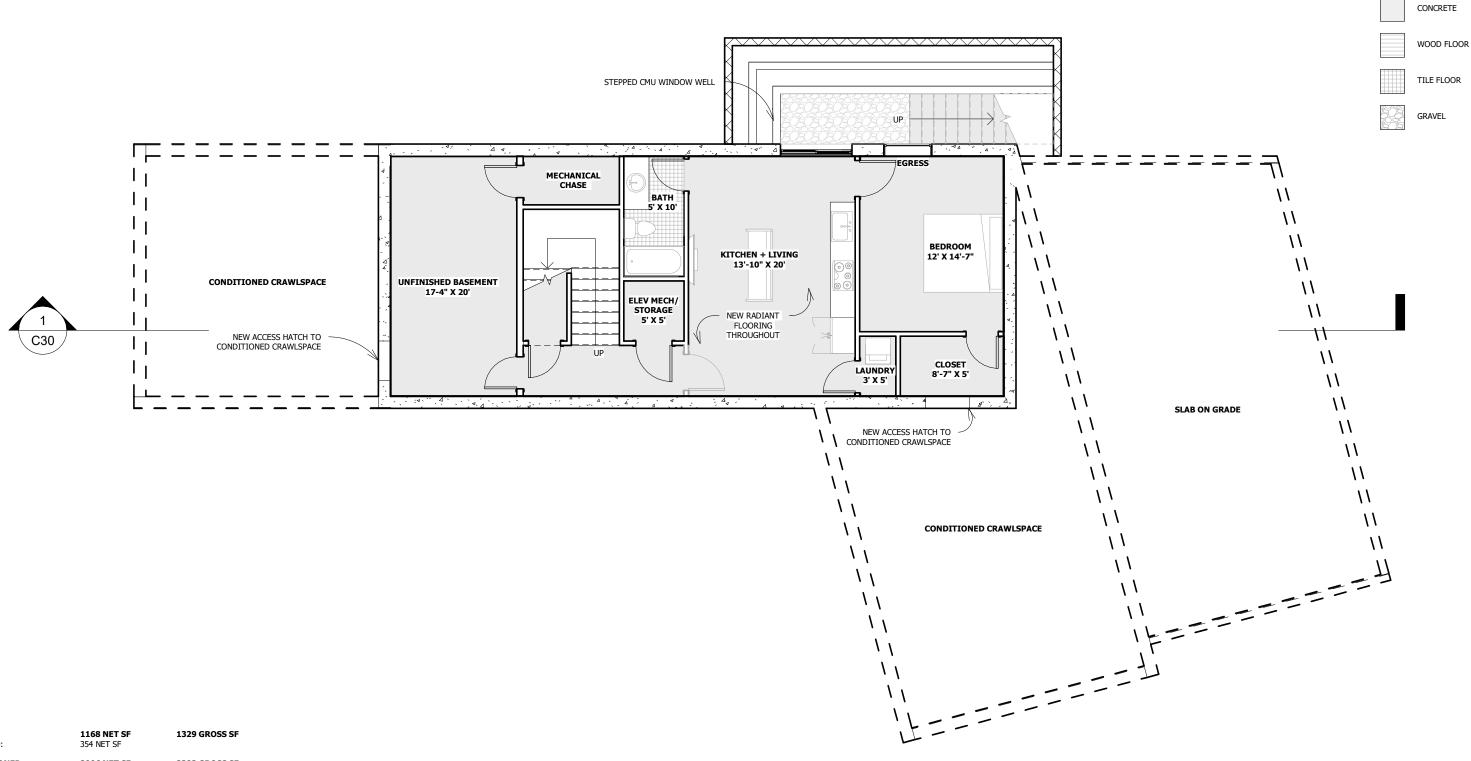
LOT 7:

29,792 SF

MIN LOT OPEN SPACE: 17,875 SF CONSTRUCTIBLE AREA: 7,910 SF



C0.1 PASSIVE HOUSE



BASEMENT: WALK OUT PATIO:

MAIN CONDITIONED: MAIN UNCONDITIONED: PATIO:

2006 NET SF 762 NET SF 2210 NET SF

1167 GROSS SF

2ND CONDITIONED: WEST DECK: EAST (MOON) DECK:

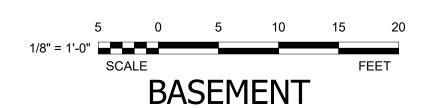
TOTAL:

1041 NET SF 160 NET SF 40 NET SF

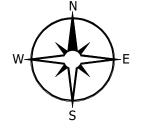
4215 NET SF

4879 GROSS SF

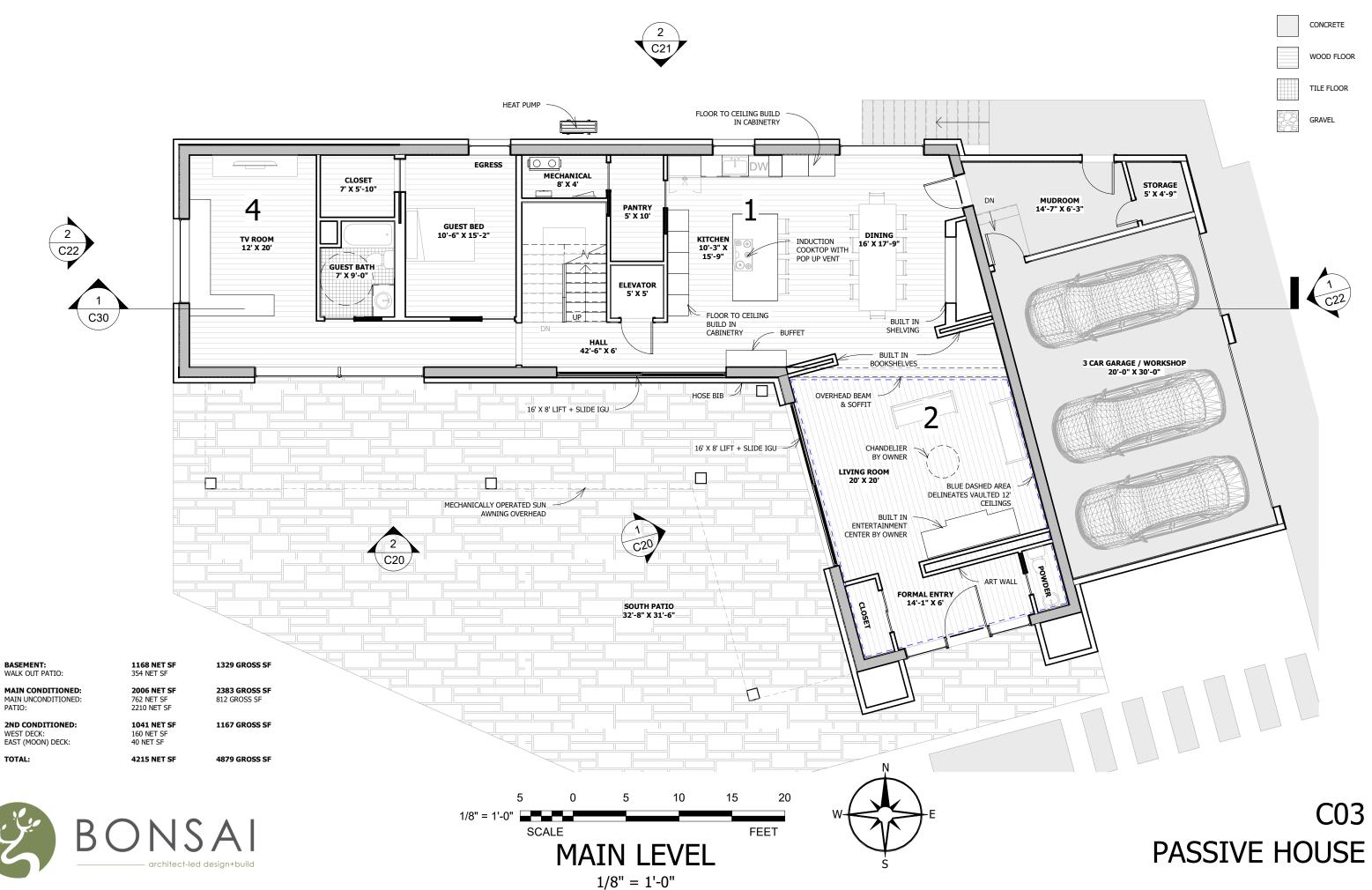


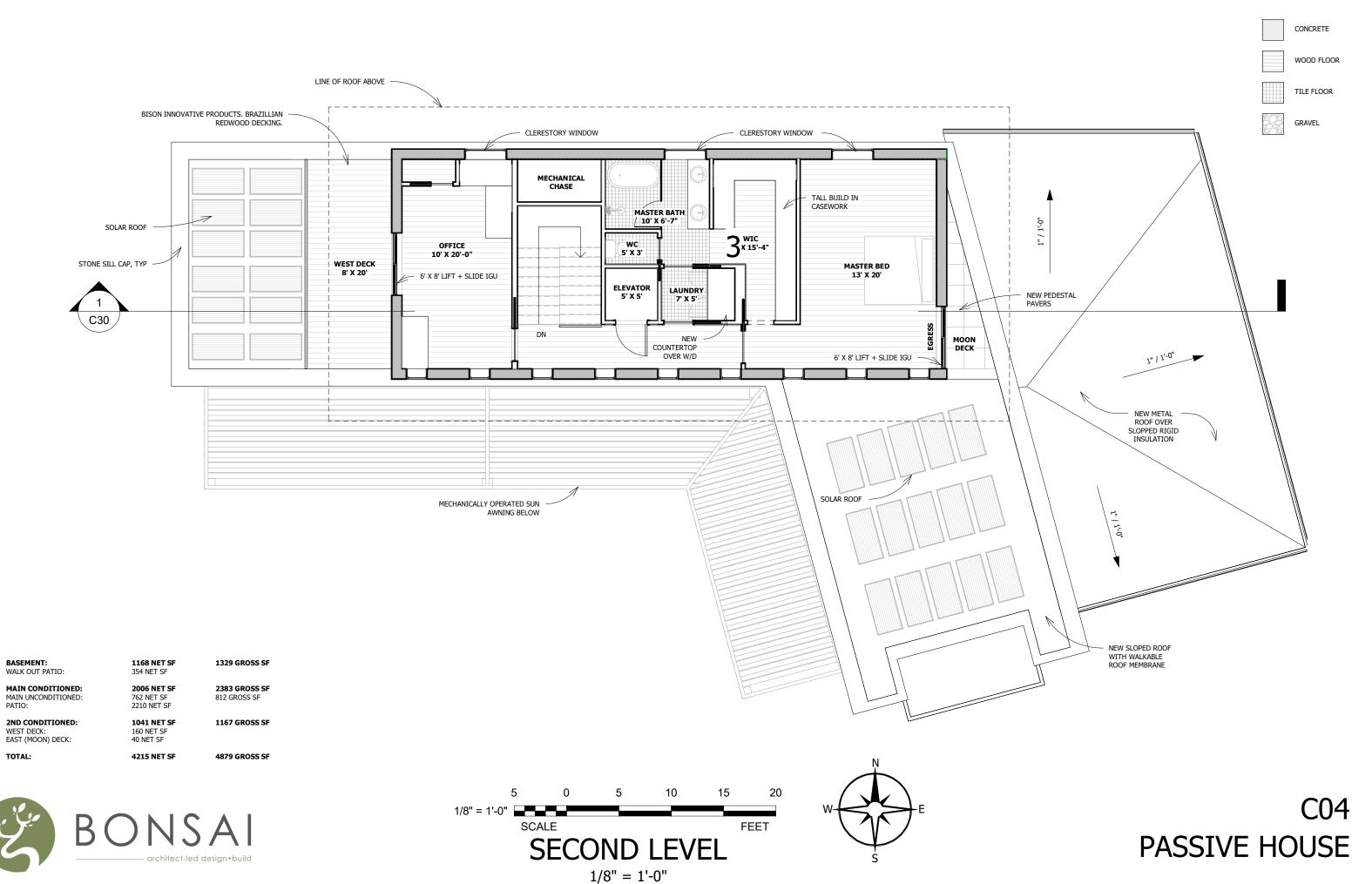


1/8" = 1'-0"



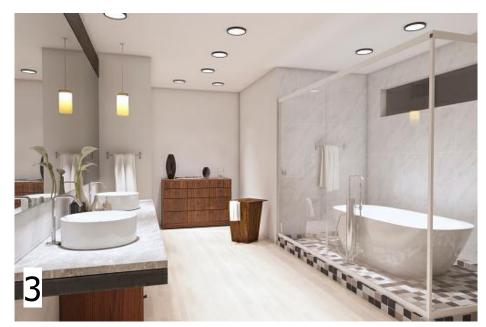
C02 **PASSIVE HOUSE**







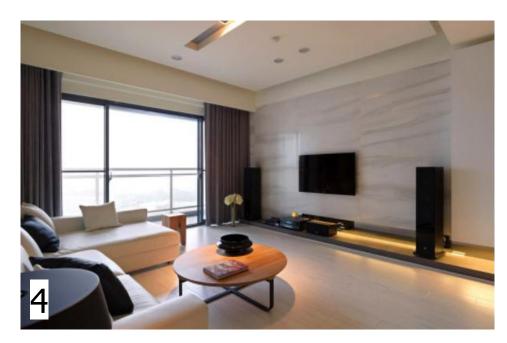
KITCHEN EXAMPLE



MASTER BATHROOM EXAMPLE

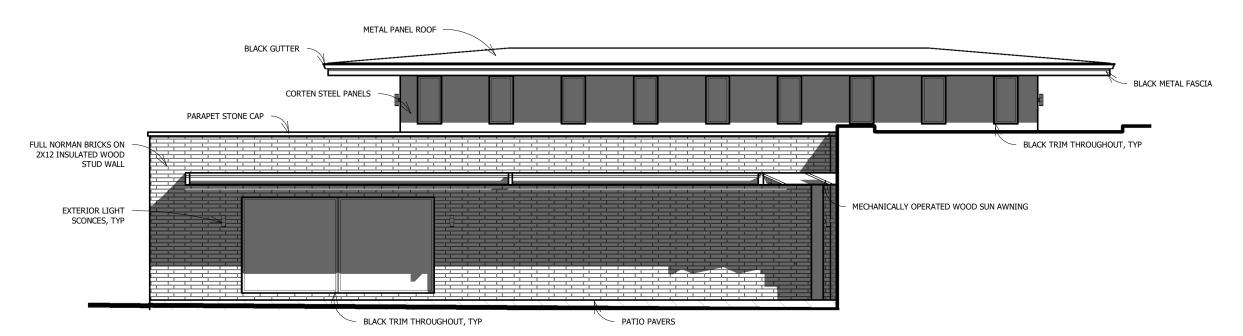


LIVING ROOM EXAMPLE



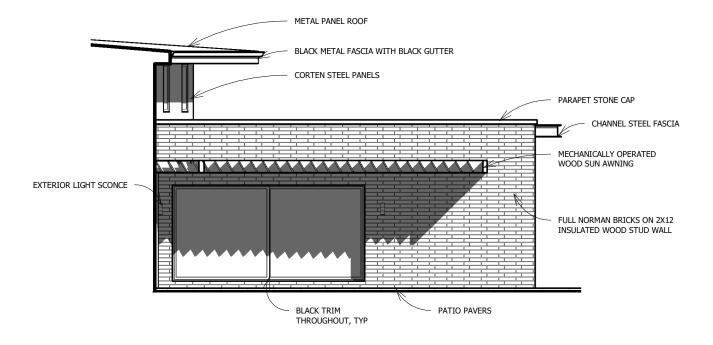
TV ROOM EXAMPLE



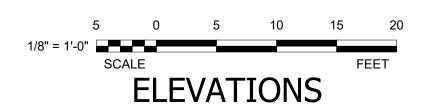


2 S. ELEVATION

1/8" = 1'-0"

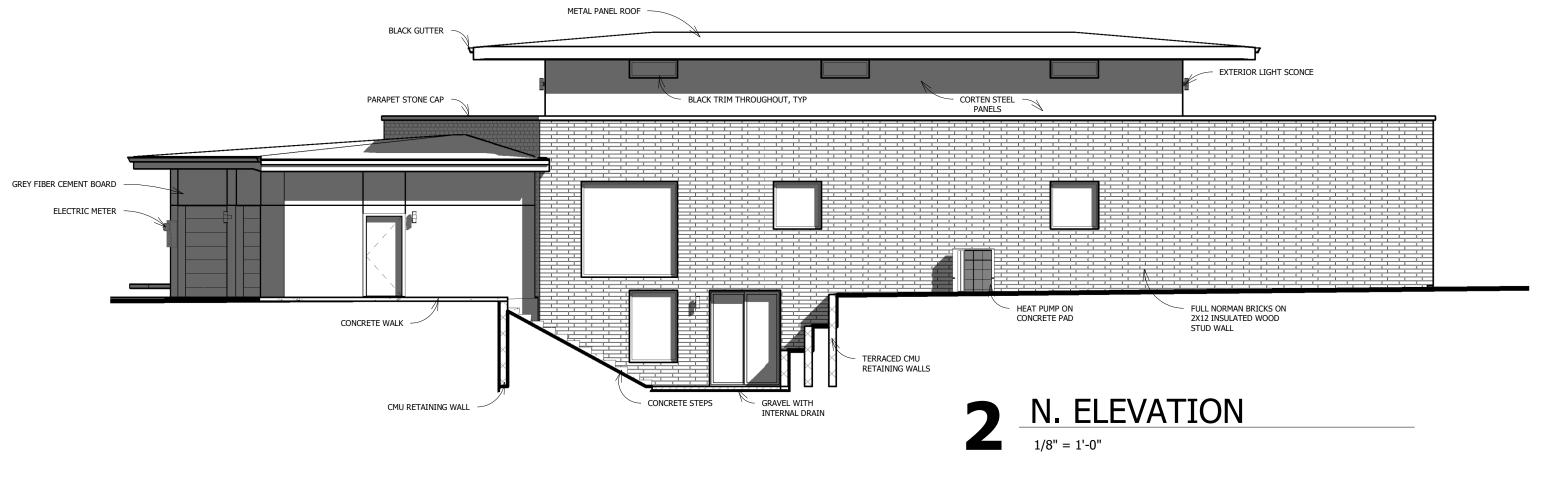


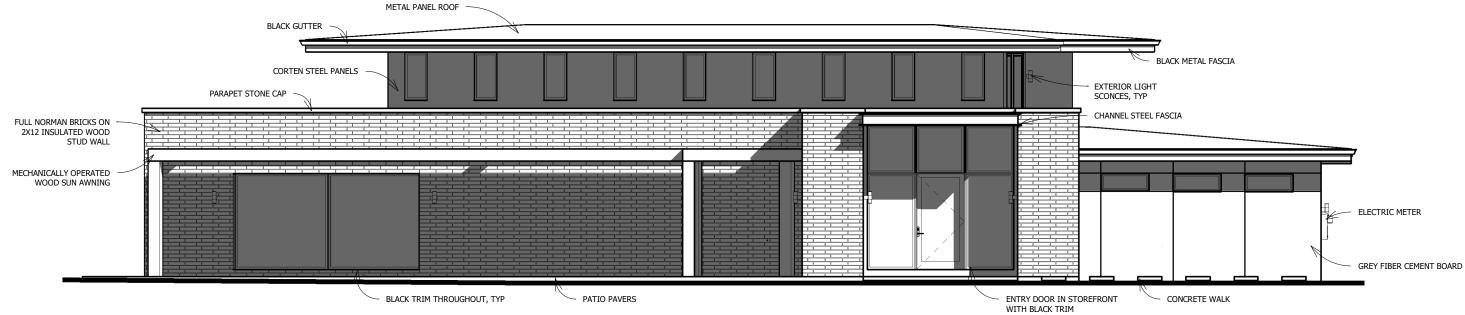




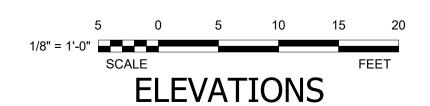
SW. ELEVATION1/8" = 1'-0"

C20 PASSIVE HOUSE





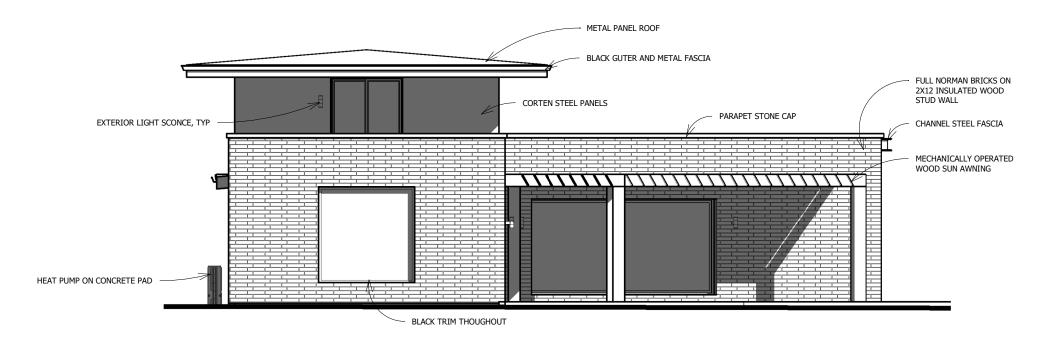




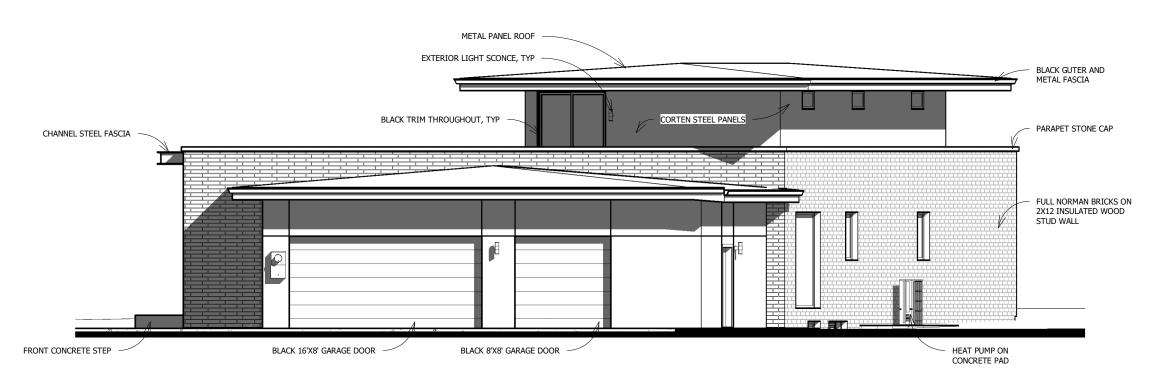
SE. ELEVATION (FRONT)

1/8" = 1'-0"

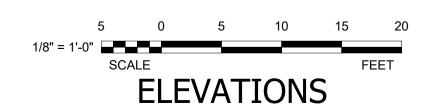
C21 PASSIVE HOUSE



W. ELEVATION1/8" = 1'-0"





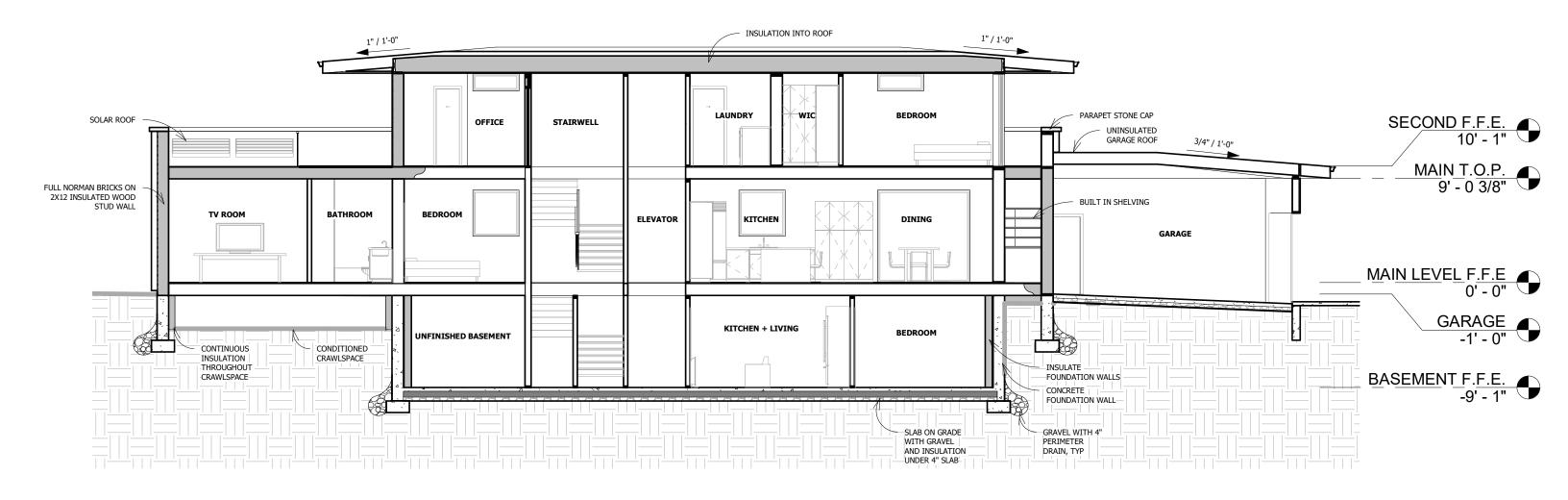


1/8" = 1'-0"

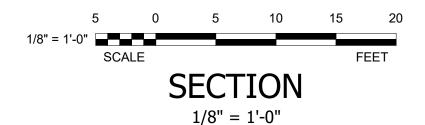
E. ELEVATION

1/8" = 1'-0"

C22 PASSIVE HOUSE







C30 PASSIVE HOUSE



Kearney House :: Concept Budget

| Accounting Code | Details | Original |
|--|--|----------|
| 0000 - Admin & General Requirements | Cleaning: Assuming cleaning throughout project, exterior areas, and final clean. General Materials: General Labor: Portable Toilet: Assume the use of one existing bathroomWaste Disposal: Dumpster for demolition and constructionReprographics: Floor | \$44,00 |
| | Protection - Material + Labor: plywood over existing house and plastic wrap on walls. | |
| Cleaning: | Assuming cleaning throughout project, exterior areas, and final clean. | \$5,000 |
| General Materials: | | \$10,000 |
| General Labor: | | \$10,000 |
| Portable Toilet: | Assume the use of one existing bathroom | |
| Waste Disposal: | Dumpster for demolition and construction | \$5,00 |
| Reprographics: | | \$1,000 |
| Floor Protection - Material + Labor: | plywood over existing house and plastic wrap on walls. | \$5,00 |
| Separation of Living areas: | If clients choose to live through construction, builders will construct temp. walls in all areas to divide living space from construction space. access doors as needed. | \$8,00 |
| 0100 - Permit and Fees | Building Permit Fee: Builders Risk: Client may add BC as | \$9,00 |
| 1100 - Permit and Fees | additionally insured to homeowners policy. Water Tap Fee: SUDP: 2-10 Warranty: | \$9,000 |
| Building Permit Fee: | | \$5,00 |
| Plan Review Fee: | | \$1,50 |
| Builders Risk: | Client may add BC as additionally insured to homeowners policy. | \$1,00 |
| Water Tap Fee: SUDP: | | |
| 2-10 Warranty: | | \$1,50 |
| | | |
| 000 - Engineering + Surveying | Survey: Survey for permitting purposing. Structural Design: Structural design and site investigation. Restructuring of portion of garage area, roof, and second floor. Engineer to verify existing wall for design. Additional structural elements not accounted for, elements to be charged to contingency. IECC Documentation + HVAC (Manual Design): | \$11,50 |
| Survey: | Survey for permitting purposing. | \$2,50 |
| Structural Design: | Structural design and site investigation. Restructuring of portion of garage area, roof, and second floor. Engineer to verify existing wall for design. Additional structural elements not accounted for, elements to be charged to contingency. | \$8,00 |
| IECC Documentation + HVAC (Manual Design): | | \$1,00 |
| | | |
| 200 - Sitework & Utilities | Water Service: Sewer System: Electric Service: Erosion Control: Solar Entitlements:All existing solar work, entitlements, leasing, or ownership agreements to be handled directly through client and solar company. Bonsai accepts no liability of existing solar systems and will not perform work until necessary approvals are cleared by solar company. Shoring: Temp Fence: | \$ |
| .300 - Demolition | Demolition - Interior: Demolition of partial areas on main and | \$23,60 |
| | second level. Demolition - Exterior: Demolition of (e) windows to on exterior. Partial demolition of (e) garage roof for restructure. Haul to dumpster. Hazardous Materials Testing: Lead and Asbestos testing. Remediation if required to be a contingency cost. | • |
| Demolition - Interior: | Demolition of partial areas on main and second level. | \$10,000 |
| Demolition - Exterior: | Demolition of (e) windows to on exterior. Partial demolition of | \$10,00 |
| 20110111011 2/1011011 | | . , |
| Hazardous Materials Testing: | Lead and Asbestos testing. Remediation if required to be a | \$1,60 |

| 1400 - Foundations & Footers | Excavation + Backfill: Potential need for restructuring or | \$0 |
|---|---|--|
| | replacement of exterior retaining walls and dictated by structural | |
| | investigation. All costs to be billed to contingency. Foundation - | |
| | House: Replace foundation wall at walk out w/ new. TBD pending structural. Bill to contingency. Foundation - Garage: | |
| | Perimeter Drain: Waterproofing: | |
| 1500 - Concrete Slab | Garage Slab - Materials + Labor: New concrete slab at elevator | \$4,000 |
| | location. To be specified by structural. cut and join existing slab. | . , |
| Garage Slab - Materials + Labor: | New concrete slab at elevator location. To be specified by | \$4,000 |
| 4500 ** | | 40 |
| 1600 - Masonry | | \$0 |
| 1700 - Framing | Framing - Labor: 750 SF new floor structure, exterior walls, | \$99,500 |
| | interior walls. Partial new roof area. Framing - Materials: 750 SF new floor structure, exterior walls, interior walls. Steel Framing | |
| | Material: Steel framing as specified by structural.Boom for Install: Boom lift for framing. | |
| Framing - Labor: | 750 SF new floor structure, exterior walls, interior walls. Partial | \$45,000 |
| Framing - Materials: | 750 SF new floor structure, exterior walls, interior walls. | \$45,000 |
| Steel Framing Material: | Steel framing as specified by structural. | \$7,500 |
| Boom for Install: | Boom lift for framing. | \$2,000 |
| 1900 Poofing 9 Cuttors | House Poofing Material Llabor Now Poof area to work | ĆOF FOO |
| 1800 - Roofing & Gutters | House Roofing - Material + Labor: New Roof area to match existing. House Gutter - Material + Labor: Gutters on all new | \$25,500 |
| | roofs and solarium. House Soffit + Fascia - Materials + Labor: To | |
| | match (e) wood, re-use if possible. Garage Roof - Material + | |
| | Labor: Placeholder for new TPO on garage. | |
| House Roofing - Material + Labor: | New Roof area to match existing. | \$7,500 |
| House Gutter - Material + Labor: | Gutters on all new roofs and solarium. | \$3,500 |
| House Soffit + Fascia - Materials + Labor: | To match (e) wood, re-use if possible. | \$7,500 |
| Garage Roof - Material + Labor: | Placeholder for new TPO on garage. | \$7,000 |
| | | |
| 1900 - Windows and Exterior Doors | Window + Door - Labor: Installation of 21 new windows. Window | \$49,000 |
| | - Materials: Materials for 21 new windows. Low-E in bedroom. | |
| | Double pane. Marvin integrity. Door - Materials: (1) fire rated | |
| | exterior door, (1) regular exterior door. Boom Lift: Lift for window installation. | |
| | | |
| Window + Door - Labor: | Installation of 21 new windows. | \$10,500 |
| Window + Door - Labor: Window - Materials: | Installation of 21 new windows. Materials for 21 new windows. Low-E in bedroom. Double pane. | \$10,500 \$35,000 |
| | Materials for 21 new windows. Low-E in bedroom. Double pane. | \$35,000 |
| Window - Materials: | | |
| Window - Materials: Door - Materials: | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. | \$35,000 \$1,500 |
| Window - Materials: Door - Materials: | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. | \$35,000 \$1,500 |
| Window - Materials: Door - Materials: Boom Lift: | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. | \$35,000 \$1,500 \$2,000 |
| Window - Materials: Door - Materials: | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. | \$35,000 \$1,500 \$2,000 |
| Window - Materials: Door - Materials: Boom Lift: | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. Stairs - Material + Labor: New framed stairs in second. Guard + Handrail - Material + Labor: New guardrail for framed stair in | \$35,000 \$1,500 \$2,000 |
| Window - Materials: Door - Materials: Boom Lift: 2000 - Stairs | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. Stairs - Material + Labor: New framed stairs in second. Guard + Handrail - Material + Labor: New guardrail for framed stair in second. | \$35,000 \$1,500 \$2,000 \$3,000 |
| Window - Materials: Door - Materials: Boom Lift: 2000 - Stairs Stairs - Material + Labor: | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. Stairs - Material + Labor: New framed stairs in second. Guard + Handrail - Material + Labor: New guardrail for framed stair in second. New framed stairs in second. | \$35,000 \$1,500 \$2,000 \$3,000 |
| Window - Materials: Door - Materials: Boom Lift: 2000 - Stairs Stairs - Material + Labor: Guard + Handrail - Material + Labor: | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. Stairs - Material + Labor: New framed stairs in second. Guard + Handrail - Material + Labor: New guardrail for framed stair in second. New framed stairs in second. | \$35,000 \$1,500 \$2,000 \$3,000 |
| Window - Materials: Door - Materials: Boom Lift: 2000 - Stairs Stairs - Material + Labor: Guard + Handrail - Material + Labor: 3100 - Porches, Decks & Rails | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. Stairs - Material + Labor: New framed stairs in second. Guard + Handrail - Material + Labor: New guardrail for framed stair in second. New framed stairs in second. New guardrail for framed stair in second. Guardrail - Material + Labor: New guard as needed at elevator in garage. | \$35,000 \$1,500 \$2,000 \$3,000 \$1,000 \$500 |
| Window - Materials: Door - Materials: Boom Lift: 2000 - Stairs Stairs - Material + Labor: Guard + Handrail - Material + Labor: | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. Stairs - Material + Labor: New framed stairs in second. Guard + Handrail - Material + Labor: New guardrail for framed stair in second. New framed stairs in second. New guardrail for framed stair in second. Guardrail - Material + Labor: New guard as needed at elevator in | \$35,000 \$1,500 \$2,000 \$3,000 \$2,000 \$1,000 |
| Window - Materials: Door - Materials: Boom Lift: 2000 - Stairs Stairs - Material + Labor: Guard + Handrail - Material + Labor: 3100 - Porches, Decks & Rails Guardrail - Material + Labor: | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. Stairs - Material + Labor: New framed stairs in second. Guard + Handrail - Material + Labor: New guardrail for framed stair in second. New framed stairs in second. New guardrail for framed stair in second. Guardrail - Material + Labor: New guard as needed at elevator in garage. New guard as needed at elevator in garage. | \$35,000 \$1,500 \$2,000 \$3,000 \$1,000 \$500 |
| Window - Materials: Door - Materials: Boom Lift: 2000 - Stairs Stairs - Material + Labor: Guard + Handrail - Material + Labor: 3100 - Porches, Decks & Rails Guardrail - Material + Labor: | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. Stairs - Material + Labor: New framed stairs in second. Guard + Handrail - Material + Labor: New guardrail for framed stair in second. New framed stairs in second. New guardrail for framed stair in second. Guardrail - Material + Labor: New guard as needed at elevator in garage. New guard as needed at elevator in garage. Siding + Exterior Finishes - Labor: exterior lime plaster for all | \$35,000 \$1,500 \$2,000 \$3,000 \$1,000 \$500 |
| Window - Materials: Door - Materials: Boom Lift: 2000 - Stairs Stairs - Material + Labor: Guard + Handrail - Material + Labor: 3100 - Porches, Decks & Rails Guardrail - Material + Labor: | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. Stairs - Material + Labor: New framed stairs in second. Guard + Handrail - Material + Labor: New guardrail for framed stair in second. New framed stairs in second. New guardrail for framed stair in second. Guardrail - Material + Labor: New guard as needed at elevator in garage. New guard as needed at elevator in garage. | \$35,000 \$1,500 \$2,000 \$3,000 \$1,000 \$500 |
| Window - Materials: Door - Materials: Boom Lift: 2000 - Stairs Stairs - Material + Labor: Guard + Handrail - Material + Labor: 3100 - Porches, Decks & Rails Guardrail - Material + Labor: | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. Stairs - Material + Labor: New framed stairs in second. Guard + Handrail - Material + Labor: New guardrail for framed stair in second. New framed stairs in second. New guardrail for framed stair in second. Guardrail - Material + Labor: New guard as needed at elevator in garage. New guard as needed at elevator in garage. Siding + Exterior Finishes - Labor: exterior lime plaster for all exterior walls. Installation of Corten banding. ~475 SF w/ current | \$35,000 \$1,500 \$2,000 \$3,000 \$1,000 \$500 |
| Window - Materials: Door - Materials: Boom Lift: 2000 - Stairs Stairs - Material + Labor: Guard + Handrail - Material + Labor: 3100 - Porches, Decks & Rails Guardrail - Material + Labor: 3500- Siding & Exterior Finishes | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. Stairs - Material + Labor: New framed stairs in second. Guard + Handrail - Material + Labor: New guardrail for framed stair in second. New framed stairs in second. New guardrail for framed stair in second. Guardrail - Material + Labor: New guard as needed at elevator in garage. New guard as needed at elevator in garage. Siding + Exterior Finishes - Labor: exterior lime plaster for all exterior walls. Installation of Corten banding. ~475 SF w/ current window patterning. Siding + Exterior Finishes - Materials: exterior lime plaster for all exterior walls. Corten banding. 475 SF w/ current window patterning. | \$35,000 \$1,500 \$2,000 \$3,000 \$1,000 \$500 \$500 |
| Window - Materials: Door - Materials: Boom Lift: 2000 - Stairs Stairs - Material + Labor: Guard + Handrail - Material + Labor: 3100 - Porches, Decks & Rails | Materials for 21 new windows. Low-E in bedroom. Double pane. (1) fire rated exterior door, (1) regular exterior door. Lift for window installation. Stairs - Material + Labor: New framed stairs in second. Guard + Handrail - Material + Labor: New guardrail for framed stair in second. New framed stairs in second. New guardrail for framed stair in second. Guardrail - Material + Labor: New guard as needed at elevator in garage. New guard as needed at elevator in garage. Siding + Exterior Finishes - Labor: exterior lime plaster for all exterior walls. Installation of Corten banding. ~475 SF w/ current window patterning. Siding + Exterior Finishes - Materials: exterior lime plaster for all exterior walls. Corten banding. 475 | \$35,000 \$1,500 \$2,000 \$3,000 \$1,000 \$500 |

| 00 - HVAC | HVAC - Material + Labor: New supplemental heating and cooling for new master bedroom + master bathroom. Assuming 1 minisplit head, 1 new heatpump. New routing of new bath fan. | \$16,0 |
|---|---|--------------|
| HVAC - Material + Labor: | New supplemental heating and cooling for new master bedroom | \$16,0 |
| | | |
| 00 - Plumbing, Gas & Fixtures | Plumbing - Labor: Plumbing labor for new master bathroom, washer, dryer. Plumbing Fixtures:(1) Toto elongated Toilet, (2) sinks. Water Heater: New Water heater. | \$12,5 |
| Plumbing - Labor: | Plumbing labor for new master bathroom, washer, dryer. | \$7,0 |
| Plumbing Fixtures: | (1) Toto elongated Toilet, (2) sinks. | \$3,0 |
| Water Heater: | New Water heater. | \$2, |
| 00 - Electrical & Lighting Fixtures | Electrical - Labor: New Electrical labor in new master, master bath, can lights in ceiling of new atrium space. potential new sub panel. New cans in (e) ceiling. 220 for new elevator, washer/dryer. Electric Heat: Heated floors in Master Bath. Electrical Fixtures: New vanity lights. | \$16,5 |
| Electrical - Labor: | New Electrical labor in new master, master bath, can lights in | \$12, |
| Electric Heat: | Heated floors in Master Bath. | \$2, |
| Electrical Fixtures: | New vanity lights. | \$1, |
| 00 - Insulation & Air Sealing | Insulation - Materials + Labor: Insulation of all new areas, walls, ceilings as necessary. R50 spray foam insulation. Vapor + Weather Barrier - Installation: Installation of wbr and vbr in new areas, in (e) atrium walls as needed post window install. Weather Barrier - Material: Liquid applied membrane. Vapor Barrier - | \$19, |
| | Material: Blower Door Test: | |
| Insulation - Materials + Labor: | Insulation of all new areas, walls, ceilings as necessary. R50 spray | \$7, |
| Vapor + Weather Barrier - Installation: | Installation of wbr and vbr in new areas, in (e) atrium walls as | \$2, |
| Weather Barrier - Material: | Liquid applied membrane. | \$2, |
| Vapor Barrier - Material: Blower Door Test: | + | \$2, \$1, |
| Window Air Sealing: | Labor and Materials for taping and sealing around windows. All | \$5, |
| 00 - Drywall, Tape & Mud | Drywall - Material + Labor: Drywall material + labor for ~750 SF. | \$7, |
| Drywall - Material + Labor: | Drywall material + labor for ~750 SF. | \$7 , |
| | | |
| 00 - Flooring & Tile | Flooring - Labor + Materials: New flooring ~750SF porcelain tile. Tile - Labor: Tile for new shower area and backsplash + toilet roomTile - Materials: New tile for shower area and backsplashes. | \$31, |
| Flooring - Labor + Materials: | New flooring ~750SF porcelain tile. | \$18, |
| Tile - Labor: | Tile for new shower area and backsplash + toilet room | \$8, |
| Tile - Materials: | New tile for shower area and backsplashes. | \$5, |
| 00 - Interior Trim, Int. Doors & Hardware | Interior Trim, Int. Doors + Hardware - Labor: install new doors and trim Interior Trim, Int. Doors + Hardware - Materials: New doors, trim. Paint grade. | \$6, |
| Interior Trim, Int. Doors + Hardware - Labor: | install new doors and trim | \$3, |
| Interior Trim, Int. Doors + Hardware - Materials: | New doors, trim. Paint grade. | \$3, |
| | | |

| 9200 - Wall & Ceiling Finishes | Wall + Ceiling - Materials + Labor: Lime Plaster for all new interior spaces. Walls only. Living Craft. Interior Ceiling - Materials + Labor: T&G Wood ceilings. Master bed and new solarium. | \$35,000 |
|--|---|-----------|
| Wall + Ceiling - Materials + Labor: | Lime Plaster for all new interior spaces. Walls only. Living Craft. | \$25,000 |
| Interior Ceiling - Materials + Labor: | T&G Wood ceilings. Master bed and new solarium. | \$10,000 |
| 9300 - Cabinets, Counters & Hardware | Cabinets + Hardware - Materials + Labor: Cabinets for new walk in closet, laundry area, master vanity. Countertops - Materials + | \$66,000 |
| | Labor: Countertops for new master bathroom, laundry. Quartz Lvl 2. | |
| Cabinets + Hardware - Materials + Labor: | Cabinets for new walk in closet, laundry area, master vanity. | \$60,000 |
| Countertops - Materials + Labor: | Countertops for new master bathroom, laundry. Quartz Lvl 2. | \$6,000 |
| 9400 - Shower Doors & Bath Accessories | Shower Door & Bath Accessories - Labor: installation of new | \$5,000 |
| | shower glassBath Accessories - Materials: | |
| Shower Door & Bath Accessories - Labor: | installation of new shower glass | \$3,500 |
| Bath Accessories - Materials: | | \$1,500 |
| 9600 - Appliances | Appliance - Labor + Material: New Washer, DryerElevator - | \$55,000 |
| Appliance - Labor + Material: | Material + Labor: Stiltz Trio Alta Elevator: New Washer, Dryer | \$25,000 |
| Elevator - Material + Labor: | Stiltz Trio Alta Elevator: | \$30,000 |
| 9700 - Landscaping & Paving | Landscaping: Repair damages to rear from boom lifts. | \$50,000 |
| Landscaping: | Repair damages to rear from boom lifts. | \$50,000 |
| | | |
| 9800 - Site Supervision | Project supervision, Job Site Superintendent (Cleanliness, Security, Traffic Flow, Signage), Fuel, Communication | \$105,000 |
| 9999 - General Contingency | @ 10% of cost | \$65,785 |