**DESIGN INTENT**

**CLADDING MATERIALS:**

- Fiber-cement siding painted white
- Corrugated metal siding painted white
- Galvalume or light gray corrugated metal
- Light blue corrugated metal
- Light green corrugated metal
- 7/8" corrugated metal siding by Bridgersteel
- 22 or 24 gauge. Exposed fasteners. PVDF or Galvalume finish

**BASIS OF DESIGN:**

- The Double-House is composed of two rectangular volumes, each with a lower window and spatial character. The volumes are offset to provide a series of spaces with increasing levels of privacy. The facades further emphasize these dual volumes with varying horizontal lines and light contrast. The bent windows are aligned with the facade of the entry volume.

**RECOMMENDED COLOR PALETTE:**

- Fiber-cement siding painted white
- Corrugated metal siding painted white
- Galvalume or light gray corrugated metal
- Light blue corrugated metal
- Light green corrugated metal
- 7/8" corrugated metal siding by Bridgersteel
- 22 or 24 gauge. Exposed fasteners. PVDF or Galvalume finish

**CLADDING:**

- Material A: Corrugated metal wall panel. 7/8" corrugated metal siding panel by Bridgersteel. 22 or 24 gauge. Exposed fasteners. Pop or Galvalume finish.
- Waterproofing: Vapor-permeable air barrier. Dupont HomeWrap or equivalent.
- Exterior wall board: 1/2" Hardie at walls. 5/8" Hardie at ceilings.

**ACKNOWLEDGMENT & DISCLAIMER**

The Double-House Design ("the Project") is the winning competition entry from the City of Houston's 2021 ADU/HOU Design Competition. The project was designed by students Siobhan Finlay and Adam Berman as part of the Rice Architecture Build Program at Rice University. Copyright of the design and instruments of service shall be retained by Rice University ("Rice"), Siobhan Finlay and Adam Berman (the "Designers").

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ABBREVIATIONS

APPENDIX OF SYMBOLS

GENERAL NOTES

1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODES AND ORDINANCES OF THE CITY OF HOUSTON AND THE RULES AND REGULATIONS OF ALL DEPARTMENTS, AGENCIES AND COMMISSIONS HAVING JURISDICTION. ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND OTHER JURISDICTIONS WHERE DISCREPANCIES OCCUR AND/OR WHERE THERE ARE MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR CORRECT INSTALLATION, SHALL BE REPORTED IMMEDIATELY TO THE OWNER. NO DEVIATION FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT WRITTEN APPROVAL FROM THE OWNER.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK AND SHALL NOTIFY THE OWNER ANY CONDITION OR DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS REQUIRING MODIFICATIONS BEFORE PROCEEDING WITH THE WORK.

3. THE CONTRACTOR MUST CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS BETWEEN THE DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE OWNER. NO DEVIATION FROM THE CONTRACT DOCUMENTS CALLED OUT IN THESE DOCUMENTS THAT CANNOT BE EXECUTED AS SHOWN OR DESCRIBED OR CANNOT BE FULLY GUARANTEED.

4. THE CONTRACTOR SHALL NOTE ANY OMISSIONS OR ERRORS IN THE CONTRACT DOCUMENTS AND NOTIFY THE OWNER IMMEDIATELY.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CALL BOXES AND OTHER PROTECTED CONSTRUCTION AVAILABILITY, THE CONTRACTOR SHALL MAKE USE OF APPROPRIATE SHOVELS AND BRUSHING FOR ALL STRUCTURAL UNFRIEDEN TICS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURED CAUSED BY OR DURING THE EXECUTION OF THE WORK.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING DORMITORS AND OTHER PROTECTED CONSTRUCTION AVAILABILITY, THE CONTRACTOR SHALL MAKE USE OF APPROPRIATE SHOVELS AND BRUSHING FOR ALL STRUCTURAL UNFRIEDEN TICS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURED CAUSED BY OR DURING THE EXECUTION OF THE WORK.

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21. APPROVAL BY A BUILDING AND SAFETY INSPECTOR DOES NOT CONSTITUTE AUTHORITY TO DEVOTE FROM CONTRACT DOCUMENTS.

22. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF EXISTING STRUCTURES AND FINISHED DURING CONSTRUCTION.

23. DRAWINGS ARE DIVIDED INTO SEPARATE SHEETS FOR GENERAL CONSTRUCTION ONLY. SHEET DESIGNATION OR NUMBERS MUST NOT BE CONSIDERED A BREAKDOWN OF AREA OF WORK RESPONSIBILITY OR TRADES. DRAWINGS MUST BE COORDINATED WITH EACH OTHER AND WITH THE PROJECT.

24. ABREVIATIONS THROUGHOUT THE PLANS ARE IN COMMON USE.

25. ALL DISCONNECTED METAL MACHINERY WHICH IS IN CONTACT WITH EARTH MUST BE PRESSURE TREATED WOOD. ALL FLOOR FRAMING MUST BE PRESSURE TREATED WOOD.

26. UMBRELLA ON CONCRETE CRACKS WHICH IS IN CONTACT WITH EARTH MUST BE PRESSURE TREATED WOOD.
LOCATE THE SECONDARY DWELLING AT THE END OF A DRIVEWAY (IF EXIST) TO ENSURE EASE OF ACCESS AND STREET VISIBILITY.

THE BUILDING CODE REQUIRES A MINIMUM 5FT SETBACK FROM THE PROPERTY LINE AND 10FT FROM EXISTING BUILDINGS.

POSSIBLE RAMP CONFIGURATIONS SHOWN FOR INFORMATIONAL PURPOSES ONLY. RAMPS ARE NOT INCLUDED AS PART OF THIS PERMIT SET.

RELATIVE GRADE DIFFERENCE FROM PORCH ELEVATION. RAMPS INDICATED ASSUME A DIFFERENCE OF 2'-4'.

HANDRAILS SHOULD BE PROVIDED IN ACCORDANCE TO IRC 2015 R31.7.8.

PER IRC R311.8:

R311.8.1 Maximum Slope
Ramps serving the egress door required by Section R311.2 shall have a slope of not more than 1 unit vertical in 12 units horizontal (8.33-percent slope). Other ramps shall have a maximum slope of 1 unit vertical in 8 units horizontal (12.5 percent).

Exception: Where it is technically infeasible to comply because of site constraints, ramps shall have a slope of not more than 1 unit vertical in 8 units horizontal (12.5 percent).

R311.8.2 Landings Required
There shall be a floor or landing at the top and bottom of each ramp, where doors open onto ramps, and where ramps change directions. The width of the landing perpendicular to the ramp slope shall be not less than 36 inches (914 mm).

R311.8.3 Handrails Required
Handrails shall be provided on not less than one side of ramps exceeding a slope of one unit vertical in 12 units horizontal (8.33-percent slope).
ASPHALT SHINGLES WITH MIN. 1 LAYER FELT UNDERLAYMENT AT 4:12 ROOF

ASPHALT SHINGLES WITH 2 LAYER FELT UNDERLAYMENT AT 2:12 ROOF

BATHROOM EXHAUST
SANITARY VENT
KITCHEN EXHAUST

LOCATE DOWNSPOUTS IN COORDINATION WITH FINAL GRADING AND SITE CONDITIONS.

ASPHALT SHINGLES TO FULLY COMPLY WITH R905.2

DISCLAIMER:
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FOR THE FULL TERMS, SEE ADDITIONAL PROJECT INFORMATION ON SHEET G0.01.

SHEET NUMBER A1.02
GENERAL NOTES

**A2.01**

1. **T.O. SUBFLOOR**
2. **T.O. TOP PLATE**
3. **GRADE**

**A4.01**

1. **T.O. SUBFLOOR**
2. **GRADE**

**DIMENSIONAL LAYOUT OF CURVED 2X16 MEMBER**

1/2" = 1'-0"

**NOTE:**

OPTIONALLY, THE KITCHEN AND ENTRY ROOF ASSEMBLY MAY BE FURRED DOWN TO PROVIDE A CURVED CEILING BY SISTERING A TRIMMED 2X16 TO EACH JOIST AS INDICATED.

**ROOF ASSEMBLY WITH TYPICAL JOISTS**

**OPTIONAL CURVED CEILING DESIGN**

**CLADDING MATERIAL A**

**CLADDING MATERIAL B**

**FOUNDATION TO BE ENGINEERED AND DESIGNED BY STRUCTURAL ENGINEER**

**R-13 MIN CC SPRAY FOAM AT FLOOR, TYP**

**R-19 BATT INSULATION AT EXT WALLS**

**R-19 BATT INSULATION AT ROOF, TYP**

**R-38 MIN CC SPRAY FOAM AT ROOF, TYP**

**COMPOSITE SHINGLE W/ 1 LAYER ROOFING FELT**

**STANDARD INSTRUMENTS OF SERVICE FOR PERMITTING OR CONSTRUCTION OF THE PROJECT.**

**FOR THE FULL TERMS, SEE ADDITIONAL PROJECT INFORMATION ON SHEET G0.01.**

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**DESIGNED BY:**

SIOBHAN FINLAY
ADAM BERMAN
RICE ARCHITECTURE

**CONSTRUCT DISCLAIMER:**

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**FOR THE FULL TERMS, SEE ADDITIONAL PROJECT INFORMATION ON SHEET G0.01.**
**GENERAL NOTES**

- **GRADE**
  - APPT. T.O. ROOF: 15'-2"
  - L1 T.O. SUBFLOOR: 2'-6"
  - APPT. T.O. ROOF: 0'-0"
  - L1 T.O. SUBFLOOR: 0'-0"
- **17'-0"**
  - **APPT. T.O. ROOF**
  - **L1 T.O. SUBFLOOR**
  - **WALL AREA**
  - **GLAZING AREA**
  - **PERCENT GLAZING**
  - **GLAZING RATIO**
  - **12'-4"**
  - **ROOF SLOPE**
  - **CLADDING MATERIAL A**:
    - FIBER CEMENT BOARD AND BATTEN; BATTENS 16" O.C.
  - **HEAT PUMP**
  - **12"**
  - **4"**
  - **ALIGN REQ'D JOINT IN B&B SIDING TO WINDOWS/Soffit**
  - **CLADDING MATERIAL B**:
    - CORRUGATED METAL PANEL
  - **1/2" = 1'-0"**
  - **PLANTER, REFER TO A5.03**
  - **DESIGNED BY:**
    - SIOBHAN FINLAY
    - ADAM BERMAN
    - RICE ARCHITECTURE
  - **CONSTRUCT**
  - **DISCLAIMER:**
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    - FOR THE FULL TERMS, SEE ADDITIONAL PROJECT INFORMATION ON SHEET G0.01.

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**ELEVATIONS**

**DOUBLE-HOUSE**

**SCALE**: 1/2" = 1'-0"
FRAMING LUMBER (CONT.)

22. WHERE JOIST ORIENTATION IS PARALLEL TO EXTERIOR STUD OR FOUNDATION WALLS, PROVIDE FULL-GRAIN BLOCKING FOR STATS (4" x 4") OR MAKER WAY SPANS LESS THAN 4'-0" AND 1-1/2" (4") IF TENSION STRAP BETWEEN ALIGNED STUDS IS REQUIRED.

GENERAL NOTES

1. ALL STRUCTURAL WOOD SHALL BE DESIGNATED INTO ARCHITECTURAL AND MECHANICAL DEPARTMENTS AS SHOWN ON THE PROJECT SPECIFICATIONS. CONSIDER THE CLASSIFICATIONS LISTED IN THESE NOTES SHALL BE THE EDITION REACTED IN THIS GOVERNING CODE.

2. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING, BRACING, SHEETING AND SHINGLES ON ALL FLOORS, ROOFS, WALLS AND ANY ADDITIONAL AS PROJECT CONDITIONS REQUIRE. SHEETING AND SHEETED SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION. CONTRACTORS MUST SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE OWNERS REVIEW.

FOUNDATIONS

1. BUILDING FOUNDATION DESIGN IS EXCLUDED.

2. FISH OR SUBGROUND HANGERS ARE PROVIDED BY A LICENSED ENGINEER AND SUBMITTED TO THE ARCHITECT FOR REVIEW.

3. INDICATED WOOD-FRAMED BUILDING IS DESIGNED TO BEAR ON PIER LOCATIONS RELATIVE IN DRAWINGS OR ON A CONCRETE SLAB AS SHOWN IN THE INCLUDED ALTERNATIVE.

4. CONCRETE PIER OR SLABS SHOWN ONLY TO INDICATE THEIR RELATIVE LOCATION INDICATED IN DRAWINGS OR ON A CONCRETE SLAB AS SHOWN IN THE INCLUDED ALTERNATIVE.

5. CONCRETE PIER OR SLAB FOUNDATIONS SHOULD BE DESIGNED BY A LICENSED ENGINEER HONORED BY THE CONTRACTOR WHO SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE OWNERS REVIEW.

WOOD STRUCTURAL PANEL SHEATHING

1. PROVIDE STRUCTURAL LVL OR 2X SHEATHING WITH BOND CLASSIFICATIONS APPROPRIATE TO THE END USE: "ECOEX" (PERMANENT EXPOSURE), "EXPOSURE I" (CONSTRUCTION EXPOSURE ONLY), "EXPOSURE II" (INTERIOR EXPOSURE) OR "EXPOSURE III" (SPECIAL EXPOSURE) AS INDICATED.

2. FLOOR SHEATHING: NON 2-3/4" THICK LVL OR PLYWOOD (HD 25/B 15 BIRCH) OR MAX. 1/2" (12MM) NAIL SPAN.

3. WALL SHEATHING: MAX. 1/2" (12MM) NAIL SPAN.

4. WOODLAM SHEETING: NON 1-1/2" (38MM) NAIL SPAN.

5. PROVIDE STRUCTURAL LVL OR 2X SHEATHING WITH APPROPRIATE BOND CLASSIFICATIONS TYPED IN DRAWINGS.

6. PROVIDE STRUCTURAL LVL OR 2X SHEATHING WITH BOND CLASSIFICATIONS APPROPRIATE TO THE END USE: "ECOEX" (PERMANENT EXPOSURE), "EXPOSURE I" (CONSTRUCTION EXPOSURE ONLY), "EXPOSURE II" (INTERIOR EXPOSURE) OR "EXPOSURE III" (SPECIAL EXPOSURE) AS INDICATED.

7. PROVIDE STRUCTURAL LVL OR 2X SHEATHING WITH BOND CLASSIFICATIONS APPROPRIATE TO THE END USE: "ECOEX" (PERMANENT EXPOSURE), "EXPOSURE I" (CONSTRUCTION EXPOSURE ONLY), "EXPOSURE II" (INTERIOR EXPOSURE) OR "EXPOSURE III" (SPECIAL EXPOSURE) AS INDICATED.

8. PROVIDE STRUCTURAL LVL OR 2X SHEATHING WITH BOND CLASSIFICATIONS APPROPRIATE TO THE END USE: "ECOEX" (PERMANENT EXPOSURE), "EXPOSURE I" (CONSTRUCTION EXPOSURE ONLY), "EXPOSURE II" (INTERIOR EXPOSURE) OR "EXPOSURE III" (SPECIAL EXPOSURE) AS INDICATED.

9. PROVIDE STRUCTURAL LVL OR 2X SHEATHING WITH BOND CLASSIFICATIONS APPROPRIATE TO THE END USE: "ECOEX" (PERMANENT EXPOSURE), "EXPOSURE I" (CONSTRUCTION EXPOSURE ONLY), "EXPOSURE II" (INTERIOR EXPOSURE) OR "EXPOSURE III" (SPECIAL EXPOSURE) AS INDICATED.

10. PROVIDE STRUCTURAL SHEATHING TF-3154 W/ DURAFLEX SIDING WITH BOND CLASSIFICATIONS APPROPRIATE TO THE END USE: "ECOEX" (PERMANENT EXPOSURE), "EXPOSURE I" (CONSTRUCTION EXPOSURE ONLY), "EXPOSURE II" (INTERIOR EXPOSURE) OR "EXPOSURE III" (SPECIAL EXPOSURE) AS INDICATED.

11. PROVIDE STRUCTURAL SHEATHING TF-3154 W/ DURAFLEX SIDING WITH BOND CLASSIFICATIONS APPROPRIATE TO THE END USE: "ECOEX" (PERMANENT EXPOSURE), "EXPOSURE I" (CONSTRUCTION EXPOSURE ONLY), "EXPOSURE II" (INTERIOR EXPOSURE) OR "EXPOSURE III" (SPECIAL EXPOSURE) AS INDICATED.

12. PROVIDE STRUCTURAL SHEATHING TF-3154 W/ DURAFLEX SIDING WITH BOND CLASSIFICATIONS APPROPRIATE TO THE END USE: "ECOEX" (PERMANENT EXPOSURE), "EXPOSURE I" (CONSTRUCTION EXPOSURE ONLY), "EXPOSURE II" (INTERIOR EXPOSURE) OR "EXPOSURE III" (SPECIAL EXPOSURE) AS INDICATED.
NOTES

T.O. CONCRETE
10" ABOVE GRADE
SLOPE 1/4" : 1'0"

SLOPE 1/4" : 1'0"
2" STEP IN CONC.

STEP 5.5"

STEP 6.5"

SLAB ON GRADE FOUNDATION SHOWN AS AN ALTERNATE TO PIER & BEAM FOUNDATIONS (BASIS OF DESIGN)
DESIGN AND ENGINEERING OF CONCRETE FOUNDATIONS TO BE COMPLETED BY OTHERS. DIMENSIONAL INFORMATION SHOWN ONLY FOR REFERENCE AND COORDINATION WITH WOOD-FRAMED STRUCTURE

DESIGNED BY:
SIOBHAN FINLAY
ADAM BERMAN
RICE ARCHITECTURE

CONSTRUCT

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FOR THE FULL TERMS, SEE ADDITIONAL PROJECT INFORMATION ON SHEET G0.01.

SHEET NUMBER
DOUBLE-HOUSE
SCALE 1/2" = 1' - 0"

ALT CONCRETE FOUNDATION PLAN

ISSUE AND REVISE
ISSUE DATE: 5/5/2022

S1.10
**LIGHTING FIXTURE SCHEDULE**

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<td>WALL MOUNT FIXTURE (OUTDOOR)</td>
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<td>LED POT LIGHT (OUTDOOR)</td>
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**ELECTRICAL SYMBOLS**

- **LED POT LIGHT**
- **WALL MOUNT FIXTURE**
- **TOILET**
- **ELECTRICAL PANEL**
- **EXHAUST FAN**
- **COMBINED SMOKE & CO ALARM**

**NOTES**

1. ALL FIXTURES TO BE INSTALLED 36" A.F.F.
2. OUTLETS IN BATHROOM, CLOSET, AND KITCHEN TO BE GFCI.
3. SMOKE/CARBON MONOXIDE DETECTORS TO BE HARDWIRED WITH BATTERY BACKUP.
4. INT. RECESSED LIGHTING SEALED AT INT. FINISH.
5. ALL INSTALLED LIGHTING TO BE LED.

**DESIGNED BY:**

SIOBHAN FINLAY
ADAM BERMAN
RICE ARCHITECTURE

**DESCRIPTION:**

- SIMPLEX 240V OUTLET, WALL
- DUPLEX OUTLET (OR H-BOX AT EQUIP. AS NECESSARY)
- WALL SWITCH
- WIRED SMOKE & CARBON MONOXIDE DETECTOR
- CENTER LINE
- EXHAUST FAN
- LED POT LIGHT
- TRACK LIGHT
- TOILET
- ELECTRICAL PANEL
- COMBINED SMOKE & CO ALARM

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DUCTLESS, WALL-MOUNTED AC UNIT IN RECESSED NICHE OVER CLOSET. RUN CONDENSATE TO BATHROOM SINK.

DUCTLESS, WALL-MOUNTED AC UNIT ABOVE, RUN CONDENSATE TO BATHROOM SINK.