GENERAL NOTES:
1. THE CONTRACTOR IS RESPONSIBLE FOR DRAINAGE AND SEPTIC SYSTEM DESIGN AND INSTALLATION.
2. ALL WORK MUST BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS DRAWING, THESE SPECIFICATIONS, AND THE LOCAL BUILDING CODE.
3. ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE.
4. ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE.
5. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY TIMBER CONNECTORS WITH ADHESIVE.
6. PROVIDE DOUBLE JOIST BELOW PARTITIONS PARALLEL TO JOIST INTERSECTIONS, AT THE INSIDE FACE OF STUDS, FROM TOP PLATE TO FLOOR BATTEN.
7. PROVIDE SOLID BRIDGING BETWEEN INTERIOR STUD WALLS.
8. PROVIDE DIAGONAL METAL STRAP BRACING AT ALL CORNERS AND WALL INTERSECTIONS, AT THE INSIDE FACE OF STUDS, FROM TOP PLATE TO FLOOR BATTEN.
9. PROVIDE SOLID BRIDGING BETWEEN INTERIOR STUD WALLS.
10. PROVIDE A CONTINUOUS BAND JOIST AT EXTERIOR STUD WALLS.

WOOD NOTES:
ALL LUMBER SHALL BE CARRIED DOWN TO A MINIMUM OF 20'-0" O.C. FROM FREEZING FOR A MINIMUM OF 5 DAYS AFTER THEY WERE POURED.

CONCRETE NOTES:
ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

REINFORCING NOTES:
ALL REINFORCEMENT FOR TIES AND STIRRUPS SHALL CONFORM TO ASTM 615-40.

EPOXY ANCHORS:
ANY EXISTING REINFORCING BARS IN CONCRETE SHALL BE REMOVED AND BE REPLACED WITH NEW REINFORCING BARS IN ACCORDANCE WITH THE REQUIREMENTS OF THIS DRAWING.

SOIL TESTING:
NOTE: THERE HAS BEEN NO SOIL TESTING PROVIDED TO THIS OFFICE FOR THIS PROJECT. THE SOIL BEARING CAPACITY OF THIS FOUNDATION SYSTEM AS DESIGNED IS BASED ON A 2 TON MINIMUM SOIL BEARING CAPACITY. SOIL TESTING SHOULD BE PERFORMED TO VERIFY THAT THE MINIMUM SOIL BEARING CAPACITIES ARE ACHIEVABLE. AN EXISTING REINFORCING CAPACITY OF 12" TO FLOOR IN X-AXIS, 12" TO WALLS IN Y-AXIS SHOULD BE ADDED TO THE REINFORCEMENT SPECIFIED IN THIS DRAWING. THE CONTRACTOR OR OWNER FOR A FOUNDATION DESIGNER.

ZONING SUMMARY:
PROPOSED 3 STORIES

CODE SUMMARY:
PROPOSED TYPE 5 CONSTRUCTION
PROPOSED 2 USE GROUP (THREE-FAMILY)
PROPOSED 3 STORIES
PROPOSED SPRINKLERED & ALARMED
ZONE: 3F-4000
1. PROVIDE R-30 INSULATION IN ALL FLOOR JOIST CAVITIES.

2. PROVIDE R-19 INSULATION IN ALL EXTERIOR BASEMENT STUD WALL CAVITIES.

3. PROVIDE R-49 INSULATION IN ALL ROOF JOIST CAVITIES, TYPICAL.

4. PROVIDE R-10 INSULATION IN SLAB.

5. PROVIDE R-30 INSULATION IN ALL FLOOR JOIST CAVITIES.

COMPLIANCE PRIOR TO CLOSING OF WALLS. THE PROPER ENERGY CONSULTANT, HERs RATER, OR OTHER ALLOWED PROFESSIONAL SHALL PERFORM THE FINAL INJECTIONS ASSOCIATED WITH THE CONSTRUCTION REQUIREMENTS AT THE DIRECTION OF THE CONTRACTOR.

GENERAL NOTES

- PROVIDE R-30 INSULATION IN ALL FLOOR JOIST CAVITIES.
- PROVIDE R-19 INSULATION IN ALL EXTERIOR STUD WALL CAVITIES.
- PROVIDE R-19 INSULATION IN ALL EXTERIOR BASEMENT STUD WALL CAVITIES.
- PROVIDE R-49 INSULATION IN ALL ROOF JOIST CAVITIES.

NOTE: ENERGY CODE COMPLIANCE.

FLOOR ASSEMBLIES

FLOOR/ROOF SYSTEM

- 1 FLOOR/ROOF ASSEMBLY 1 1/2" 50 BC Sound
- 16'-10" 1 FLOOR ASSEMBLY 1 1/2" 50 BC Sound

SYSTEM DESCRIPTION

- Engineered Joist
- Plaster Base
- Ecore 5mm ECO silence underlayment
- Hardwood Floor System
- 2X6 @ 16" O.C.
- 9-1/2" min. wood "I" joist max 24" O.C.
- 19/32" wood sheathing perpendicular
- 5/8" FIRECODE C Core Gypsum
- 1/16" veneer plaster exterior
- 1/16" veneer plaster

SYSTEM PERFORMANCE

- 1F: R-30 Insulation in floor joist cavities
- 1F: R-19 Insulation in exterior basement stud walls cavities
- 1F: R-49 Insulation in roof joist cavities, typical
- 1F: R-10 Insulation in slab

SCALE: 3" = 1' - 0"

FLOOR ASSEMBLIES

FLOOR/ROOF SYSTEM

- 1 FLOOR/ROOF ASSEMBLY 1 1/2" 50 BC Sound
- 16'-10" 1 FLOOR ASSEMBLY 1 1/2" 50 BC Sound

SYSTEM DESCRIPTION

- Engineered Joist
- Plaster Base
- Ecore 5mm ECO silence underlayment
- Hardwood Floor System
- 2X6 @ 16" O.C.
- 9-1/2" min. wood "I" joist max 24" O.C.
- 19/32" wood sheathing perpendicular
- 5/8" FIRECODE C Core Gypsum
- 1/16" veneer plaster exterior
- 1/16" veneer plaster

SYSTEM PERFORMANCE

- 1F: R-30 Insulation in floor joist cavities
- 1F: R-19 Insulation in exterior basement stud walls cavities
- 1F: R-49 Insulation in roof joist cavities, typical
- 1F: R-10 Insulation in slab

SCALE: 3" = 1' - 0"
**ROOF DETAILS**

- **Metal Bar Termination**
  - SURE-SEAL INSULATION
  - BRITE-PLY
  - APPROX. 1/2" (13 mm)

- **Field Fabricated Pipe Seal**
  - 3" (75 mm)

- **Membrane Splice with Splicing Cement**
  - SURE-SEAL/BRITE-PLY LAP SEALANT
  - SURE-SEAL WATER CUT-OFF MASTIC
  - EPDM MEMBRANE

- **Parapet/Curb Cured EPDM**
  - SURE-SEAL/BRITE-PLY EPDM MEMBRANE
  - 1/2" (13 mm) MIN.

- **Curb Flashing**
  - SURE-SEAL/BRITE-PLY LAP SEALANT
  - SURE-SEAL/BRITE-PLY LAP SEALANT

- **Parapet Flashing**
  - SURE-SEAL BONDING ADHESIVE
  - METAL CAP

- **Cured EPDM Sections**
  - SURE-SEAL IN-SEAM SEALANT
  - SURE-SEAL BONDING ADHESIVE

**NOTES:**
1. FASTENER PATTERN OF METAL BAR MUST PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
2. WHEN REINFORCED MEMBRANE IS USED, ENSURE FASTENER PATTERN OF METAL BAR PROVIDES CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC
3. IN-SEAM SEALANT SHALL BE CONTINUOUS ALONG THE LENGTH OF THE DECK
4. FASTENING PLATES MAY BE INSTALLED VERTICALLY.
5. IF A CONTINUATION OF THE DECK MEMBRANE IS TO BE USED AS WALL FLASHING, REFER TO DETAIL U-12-C OR U-12-D.
6. SPLICING CEMENT MAY BE USED IN LIEU OF SecurTAPE.
7. POLYMER SEAM PLATES ARE REQUIRED IN LIEU OF SEAM FASTENING BETWEEN ADJOINING SECTIONS OF CURED EPDM MEMBRANE.
8. SecurTAPE MAY BE USED IN LIEU OF SPLICING CEMENT.
**PROPOSED THREE-FAMILY HOUSE**

49 Woodcliff Street
Dorchester, MA 02125

**PROPOSED ELEVATIONS**

1/4" = 1'-0"

**WINDOW SCHEDULE**

<table>
<thead>
<tr>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th># NEEDED</th>
<th>R.O.</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PROVIDE HALF SCREENS ON TRACKS, WHITE FINISH HARDWARE, COLOR SELECTED BY OWNER</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>GC IS RESPONSIBLE FOR VERIFYING SIZES &amp; QUANTITIES IN THE FIELD PRIOR TO ORDERING</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PROVIDED ELEVATION 1/4&quot; TO 1'-0&quot; in 1/4&quot; intervals, ALL WINDOW W/SILL HEIGHT BELOW 3' A.F.F.</td>
</tr>
</tbody>
</table>

**WINDOW NOTES:**
1. ALL WINDOWS ARE BASED ON MARVIN INTEGRITY OR EQUAL.
2. GLAZING TO BE LOW-E TYPE.
3. ALL WINDOWS TO INCLUDE INSECT SCREENING PER MANUFACTURER.
4. DIMENSIONS SHOWN ARE BASED ROUGH OPENINGS. G.C. TO COORDINATE ROUGH OPENING DIMENSIONS WITH WINDOW MANUFACTURERS THAT COMPLY WITH ASTM F2090.
5. PROVIDE WINDOW OPENING CONTROL DEVICE.

**WINDOW SCHEDULE**

<table>
<thead>
<tr>
<th>NO.</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th># NEEDED</th>
<th>R.O.</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MARVIN</td>
<td>ITDH3335</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>MARVIN</td>
<td>ITDH3264</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>MARVIN</td>
<td>ITDH3664</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>MARVIN</td>
<td>ITDH3664 2W</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>MARVIN</td>
<td>ITDH3335</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WINDOW NOTES:**
1. ALL WINDOWS ARE BASED ON MARVIN INTEGRITY OR EQUAL.
2. GLAZING TO BE LOW-E TYPE.
3. ALL WINDOWS TO INCLUDE INSECT SCREENING PER MANUFACTURER.
4. DIMENSIONS SHOWN ARE BASED ROUGH OPENINGS. G.C. TO COORDINATE ROUGH OPENING DIMENSIONS WITH WINDOW MANUFACTURERS THAT COMPLY WITH ASTM F2090.
5. PROVIDE WINDOW OPENING CONTROL DEVICE.

**WINDOW SCHEDULE**

<table>
<thead>
<tr>
<th>NO.</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th># NEEDED</th>
<th>R.O.</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MARVIN</td>
<td>ITDH3335</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>MARVIN</td>
<td>ITDH3264</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>MARVIN</td>
<td>ITDH3664</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>MARVIN</td>
<td>ITDH3664 2W</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>MARVIN</td>
<td>ITDH3335</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WINDOW NOTES:**
1. ALL WINDOWS ARE BASED ON MARVIN INTEGRITY OR EQUAL.
2. GLAZING TO BE LOW-E TYPE.
3. ALL WINDOWS TO INCLUDE INSECT SCREENING PER MANUFACTURER.
4. DIMENSIONS SHOWN ARE BASED ROUGH OPENINGS. G.C. TO COORDINATE ROUGH OPENING DIMENSIONS WITH WINDOW MANUFACTURERS THAT COMPLY WITH ASTM F2090.
5. PROVIDE WINDOW OPENING CONTROL DEVICE.
RECOMMENDED FASTENING SCHEDULE

<table>
<thead>
<tr>
<th>BUILDING ELEMENT</th>
<th>NAIL SIZE AND TYPE</th>
<th>NUMBER AND LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2X6 BEARING HEADER DETAIL</td>
<td>16D</td>
<td>NTS</td>
</tr>
<tr>
<td>WOOD JOISTS SUPPORTED ON WOOD GIRDERS</td>
<td>16D</td>
<td>1'-0&quot;</td>
</tr>
<tr>
<td>INSULATED WALL DETAILS</td>
<td>16D</td>
<td>P = 1'-0&quot;</td>
</tr>
<tr>
<td>INSULATED WALL DETAILS</td>
<td>16D</td>
<td>P = 1'-0&quot;</td>
</tr>
<tr>
<td>2X PARTITION WALL HEADER DETAIL</td>
<td>16D</td>
<td>NTS</td>
</tr>
<tr>
<td>TOP PLATE FRAMING DETAIL</td>
<td>16D</td>
<td>NTS</td>
</tr>
<tr>
<td>WINDOW OPENING DETAIL</td>
<td>16D</td>
<td>1'-0&quot;</td>
</tr>
<tr>
<td>DOOR OPENING DETAIL</td>
<td>16D</td>
<td>1'-0&quot;</td>
</tr>
<tr>
<td>TYPICAL DOUBLE TOP PLATE SPLICE DETAIL</td>
<td>16D</td>
<td>NTS</td>
</tr>
<tr>
<td>PLATFORMS IN FIRE RATED STAIR SHAFTS</td>
<td>16D</td>
<td>1'-0&quot;</td>
</tr>
</tbody>
</table>

NOTE: SHINGLE NAILS SHALL PENETRATE NOT LESS THAN 3/4" INTO NAILING STRIPS, SHEATHING OR SUPPORTING CONSTRUCTION EXCEPT AS OTHERWISE PROVIDED IN 780 CMR 1225.4.4.
PROPOSED THREE-FAMILY
49 WOODCLIFF STREET
DORCHESTER, MA 02125

PROPOSED FOUNDATION PLAN

PROPOSED FIRST FLOOR FRAMING PLAN
Flexible Hose Bend Characteristics:

NOTE: For out-of-plane (three-dimensional) bends, care shall be taken to avoid imparting torque on the flexible hose.

The following table is used when the ambient temperature is maintained.

<table>
<thead>
<tr>
<th>Ambient Temperature</th>
<th>Exposed to</th>
<th>Minimum Barrel Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>40°F/4°C</td>
<td>40,000</td>
<td>4,000</td>
</tr>
<tr>
<td>50°F/10°C</td>
<td>30,000</td>
<td>1,000</td>
</tr>
<tr>
<td>60°F/16°C</td>
<td>20,000</td>
<td>400</td>
</tr>
<tr>
<td>70°F/25°C</td>
<td>10,800</td>
<td>300</td>
</tr>
<tr>
<td>80°F/40°C</td>
<td>8,000</td>
<td>200</td>
</tr>
<tr>
<td>90°F/50°C</td>
<td>6,000</td>
<td>200</td>
</tr>
<tr>
<td>100°F/60°C</td>
<td>4,000</td>
<td>250</td>
</tr>
<tr>
<td>110°F/70°C</td>
<td>2,000</td>
<td>350</td>
</tr>
<tr>
<td>120°F/80°C</td>
<td>1,200</td>
<td>100</td>
</tr>
</tbody>
</table>

NOTE: Exposed minimum barrel lengths are inclusive up to 30-mph/48-kph wind velocities.