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CITY OF PORTLAND, MAINE · RESURGAM
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 07/06/16

PEAKS ISLAND- CAST IN PLACE CONCRETE FOOTINGS STEPS & PROCEDURES

- *DIGGING OF HOLES*
  - **Location of Footings will be determined by plans and specifications and field measurements**
  - **All holes for the footings are to be hand dug to minimize soil disruption**
    - **All Holes will be dug to a minimum depth of 48" below grade, or until ledge is encountered, whichever comes first**
    - **Holes will be dug at a diameter of 12"**
      - **At approximately 36" depth, holes were "belled-out" to a diameter of 18" for a depth of 8"**
  - **Bottoms of holes are to be hand tamped before concrete is added**

- *POURING OF FOOTINGS*
  - **Concrete will be mixed in a powered mixer on site**
  - **Pre-mixed bags of concrete and aggregate will be used**
    - **Aggregate contained concrete sand and 3/8" pea stone**
    - **Water will be added until mix reached an approximate 2-3" slump**
    - **Concrete mix meets or exceeds ASTM C387 standards, with a 4,000 PSI strength at 28 days**
  - **Concrete will be poured into the holes from a maximum height of 48" to minimize separation**
    - **Approximately 12" of concrete will be added to the hole and then 36" of sono-tube was placed on top, leveled and dirt will be back filled around**
      - **Back fill will be compacted every 6"**
      - **Once approximately half of the sono-tube is filled, the concrete will be hand vibrated for 10 seconds**
      - **Remaining concrete will be added, vibrated and screen level**
  - **Approximately 3.3 80lb bags of sakrete was used per hole, at an average of 2.18 cubic feet(or .08 cubic yards)**
  - **1/2" Galvanized Concrete Wedge Anchor Bolts will be added**