

THE STATE OF CONNECTICUT
DEPARTMENT OF HOUSING (DOH)
COMMUNITY DEVELOPMENT BLOCK GRANT DISASTER RECOVERY PROGRAM (CDBG-DR)

OWNER OCCUPIED REHABILITATION AND REBUILDING PROGRAM (OORR)

**HAZARDOUS MATERIAL ABATEMENT
CONSTRUCTION OF NEW FOUNDATION
RAISING EXISTING RESIDENCE
ADDITION AND ALTERATIONS
JANELLE INPERATO RESIDENCE
50 VISTA DRIVE
EAST HAVEN, CONNECTICUT 06512**

ADDENDUM NO. 1115-2

Date: May 19, 2015

Application No. 1115
LAA Project No. 1524-07

This Addendum forms part of the Contract Documents and amends the original Bidding Documents dated April 29, 2015, only in the following particulars. Original provisions of the Contract Documents shall remain in effect except as specifically amended by this Addendum.

Bidders shall consider amendments and the resulting cost differences shall be included in all bids.

Acknowledge receipt of this Addendum in the space provided on the Bid Proposal Form. Failure to do so may subject the bidder to disqualification.

GENERAL

1. **BID FORM:** Replace Bid Form with revised Bid Form P.6A and 6B included in this Addendum.

SPECIFICATIONS

A. SECTION 010200 – ALLOWANCES. Add the following allowances:

4. Move House Contents Allowance – Include a cash allowance of \$3,000.00 for moving, storing and reinstalling the Owner's house contents during construction, as directed by the Homeowner.
5. Test and Inspection Allowance – Include a cash allowance of \$3,000.00 for concrete and reinforcing inspections and testing, as directed by the Architect.

- B. Add Section 224000- “Plumbing Performance Specification”, included in this Addendum.
- C. Add Section 230000- “HVAC Performance Specification”, included in this Addendum.
- D. Add Section 260000- “Electrical Performance Specification”, included in this Addendum.

DRAWINGS

DWG. G-002 - Add notes to Site Plan:

1. **Provided new gas service from existing gas main in Vista Drive to a new meter at the existing residence. Contractor shall make all arrangements with utility company, obtain permits, pay fees required for complete new gas service. Extend gas service into existing residence and connect to appliances and equipment as specified elsewhere.**
2. **Coordinate demolition work with dwgs AD-101, AD-102, AD-201.**

DWG. AD-101:

1. Delete Demolition Note D6, and replace with: **Remove existing masonry chimney in its entirety. Salvage bricks and stockpile on site as directed by Homeowner.**
2. Delete Demolition Note D17 and replace with: **Remove, dismantle existing Belgian Block planter walls and plant material. Salvage all materials and stockpile on site as directed by Homeowner.**
3. Add Demolition Note D34: **Disconnect, empty, remove and legally dispose of existing fuel oil tank off site. Obtain all necessary inspections and approvals from authorities having jurisdiction.**
4. Foundation Demolition Plan: Note that in the northwest corner of “Open Basement” there is an existing fuel oil tank. Tag tank with demolition note D34.

DWG. A-101:

1. Foundation Plan: Add note at concrete pads at each new stair bottom landing; **Provide a 12” diameter concrete pier and footing similar to deck support piers at each stair stringer. Provide an expansion joint in concrete pad in front of stair stringer bearing.**

DWG. A-201-A-202:

1. At each new stair add note: **Provide 1 ½ inch diameter wood handrail with attaching brackets on outboard side of each stair.**
2. Add note applicable to stairs and guardrails:

CONSTRUCTION OF GUARDRAILS AND INFILLS SHALL COMPLY WITH THE FOLLOWING CRITERIA:

Railing construction design loads-guardrails and handrails - 200 lbs./s.f.

A single concentrated load applied in any direction at any point along the top.

Guardrails infill components design loads – 50 lbs./s.f.

Guard infill components (all those except handrail) ballusters and panel fillers shall withstand a horizontally applied normal load of 50 lbs. on an area equal to one square foot.

DWG. S-104:

1. Delete drawing S-104 and replace with revised drawing S-104 included in this Addendum.

Attachments: Revised Bid Form- P6A,6B
Section 224000 – Plumbing Performance Specification
Section 230000 – HVAC Performance Specification
Section 260000 – Electrical Performance Specification
Drawing S-104 – Structural Notes-Boring Logs

END OF ADDENDUM 1115-2

BID FORM-REVISED

The undersigned, being familiarized with the local conditions affecting the cost of the work and with the Drawings, Specifications, Invitation to Bidders, Instructions to Bidders, General Conditions, Bid Form, Form of Contract and Form of Bonds for **Project No.1115** and Addenda No. _____ and _____ thereto, as prepared by **Lothrop Associates^{LLP} Architects**, Harford, Connecticut, and on file in the office of DOH, hereby proposes to furnish all permits, labor, materials, tools, equipment, and related items required for the demolition, abatement and construction including general construction, site improvements, plumbing, heating, electrical, and finish items for said **Project No.1115** located at **The Janelle Imperato Residence, 50 Vista Drive, in East Haven, State of Connecticut**, all in accordance with the Drawings and Specifications, for the sum of:

_____ Dollars (\$ _____)

BREAKDOWN OF COSTS FOR LUMP SUM BASE BID

The following is a Breakdown of Costs by Major Division used by the Bidder in assembling this bid:

GENERAL CONDITIONS, OVERHEAD AND PROFIT

| | |
|--|------------|
| DIVISION 01 GENERAL REQUIREMENTS | \$ _____ |
| HOUSE RAISING | \$ _____ |
| DIVISION 02 SELECTIVE DEMOLITION | \$ _____ |
| DIVISION 02 HAZMAT ABATEMENT | \$ _____ |
| DIVISION 03 CAST IN PLACE CONCRETE | \$ _____ |
| DIVISION 05 STRUCTURAL STEEL FRAMING | \$ _____ |
| DIVISION 06 WOOD AND PLASTICS | \$ _____ |
| DIVISION 07 THERMAL AND MOISTURE PROTECTION | \$ _____ |
| DIVISION 08 OPENINGS (Exclusive Of Allowances) | \$ _____ |
| DIVISION 09 FINISHES | \$ _____ |
| DIVISION 22-23 PLUMBING-HVAC | \$ _____ |
| DIVISION 26 ELECTRICAL (Exclusive Of Allowances) | \$ _____ |
| DIVISION 31 EARTHWORK | \$ _____ |
| DIVISION 31 HELICAL PILES | \$ _____ |
| ALLOWANCE #1- MAW | \$5,000.00 |

| | |
|--|------------|
| ALLOWANCE #2-DOOR HARDWARE (Doors @ \$100 ea.) | \$ _____ |
| ALLOWANCE #3-LIGHT FIXTURES (Fixtures @ 100. ea.) | \$ _____ |
| ALLOWANCE #4 – MOVE HOUSE CONTENTS | \$3,000.00 |
| ALLOWANCE #5 – TESTS AND INSPECTIONS | \$3,000.00 |

(CONTINUED ON P. 7- PROJECT MANUAL)

P.6B

ADDENDUM # 1115-2

SECTION 224000 PLUMBING PERFORMANCE SPECIFICATION

1.1 DESCRIPTION OF PLUMBING SCOPE

- A. Existing building structure, including plumbing fixtures located on the first and second floor, shall be lifted and reset on a new supporting structure above the flood plain.
- B. Plumbing scope of work shall include the following:
 - 1. Provide new thirty (30) gallon gas-fired water heater and locate in new mechanical room on the east side of the building.
 - 2. Extend existing sanitary waste piping from existing fixtures to existing below grade piping. Reuse existing piping to greatest extent possible.
 - 3. Provide new domestic water service in the new mechanical room. Connect from service to existing plumbing fixtures. Reuse existing piping to greatest extent possible. Provide new water meter in accordance with utility company requirements. Provide domestic cold water connection to new water heater.
 - 4. Provide new domestic hot water piping from water heater to existing fixtures. Reuse existing piping to greatest extent possible.
 - 5. Provide new gas piping from utility company meter to new domestic hot water heater, and to new gas-fired furnace.
 - 6. Provide required valves, expansion tanks, piping insulation as required for a complete plumbing installation.

1.2 PLUMBING SYSTEM – GENERAL REQUIREMENTS

- A. Pipe Threads: ASME B1.20.1 for factory-threaded pipe and pipe fittings.
- B. Comply with applicable codes for installation of backflow prevention devices.
- C. All plumbing systems shall be designed in accordance with the latest editions of the International Building Code, the International Plumbing Code and all local, state and federal codes and requirements.
- D. All below slab waste piping and vent piping shall be PVC. Above slab waste piping shall be non-hub cast iron (ASTM A888). The domestic water supply piping shall be type L copper with copper or brass fittings for all mains and risers. Type K copper shall be used where required for underground or under slab piping. All piping shall be clearly marked as to system type and direction of flow. Provide stops at all fixtures.
- E. Provide insulation for all domestic hot and cold water piping. All domestic hot water piping shall be 1" thick. Cold water piping shall be installed with 12" thick foam Armaflex self-sealing pipe insulation with vapor barrier jacket.
- F. When installing the domestic cold water system, maintain a minimum separation of six inches from any domestic hot water, domestic hot water lines. Do not install the domestic cold water

system within shared spaces of heat producing piping or equipment including, soffits, structures or within insulated cavities.

- G. Provide a sanitary waste system and connection to the sanitary system. All work shall confirm the authorities' requirements.
- H. Install all piping systems in such a manner to avoid pipe freezing. Provide not only piping insulation, but building insulation between cold surfaces and piping as well. Piping shall never be installed in spaces where potential pipe freezing can occur. Contact the Architect and Engineer immediately if such condition occurs. The pipes shall always be located on the warm side of the building insulation.
- I. Provide heat trace on all domestic water pipes installed in areas exposed to freezing temperatures. The heat trace to be self-regulating temperature cable system by Raychem.

1.2 SUPPLY WATER REQUIREMENTS

- A. Provide a new city water service form the street to the house. Provide a 1 1/2" main from the street to the water meter. Provide all grounding of the equipment, water meter and remote recorder, per the water authority's requirements.

1.3 DOMESTIC HOT WATER SYSTEMS

- A. Provide a gas fired water heater. Water heater shall be A O Smith Pro-Max or equal. Provide manufacturer recommended flue. Provide expansion tank, drain lines, PRV, and isolation valves as required by local ordinances.

1.4 FUEL SUPPLY SYSTEMS

- A. Provide gas piping distribution system to furnace and water heater. Provide gas cocks and shut-off valve at each terminal. Gas piping shall be Schedule 40 black steel and sized in accordance with the requirements of the International Mechanical Code and NFPA 54.

END OF SECTION 224000

SECTION 23000 HVAC PERFORMANCE SPECIFICATION

1.1 DESCRIPTION OF HVAC SCOPE

- A. Existing building shall be lifted and rest on a new supporting structure above the flood plain. All toilet exhaust fans and dryer vents shall remain in place and be reused.
- B. HVAC scope of work shall include the following:
 - 1. Remove existing hot water boiler from basement, and all related hydronic piping, pumps, valves and related hydronic accessories.
 - 2. Remove existing baseboard radiation, covers and related piping and valves.
 - 3. Provide new gas fired furnace.
 - 4. Provide new ductwork registers and diffusers

1.2 GAS FURNACES AND ACCESSORIES

- A. Provide a new gas fired condensing vertical mounted furnace. Furnace shall have a minimum input capacity of 40 MBH, and shall be a minimum of 92% efficient. Fan shall have the capability of proving a minimum of 900 cfm. Fan shall be sized to provide this volume at an external static pressure of 0.5", anticipating the installation of a d/x cooling coil in the future.
- B. Provide direct vent piping, and sealed combustion air.
- C. Furnace shall be Payne PG92BS or approved equal by Trane, Carrier or Lennox

1.3 DUCTWORK, GRILLES AND ACCESSORIES

- A. Ductwork distribution system and accessories: For all ductwork, provide galvanized steel supply and return air ductwork with vapor barrier, exterior blanket insulation for the furnace unit. The contractor shall size all ductwork. Ductwork mains shall be designed for a maximum velocity of 750 feet per minute and a maximum static pressure of 0.08 in. wc. per 100 feet of duct. Branch ducts shall be sized for a maximum velocity of 500 feet per minute. The return air system shall be ducted with internal noise attenuation lining for the first 10 feet of the ductwork minimum from unit
- B. Provide Young regulators manual balancing dampers, and Bowden Cable remote control systems, for each main and branch duct for system balancing. Provide air balancing for the entire system and adjustments so as to maintain the minimum CFM requirements. Total supply air rates shall be calculated to meet the heating loads for the building. Dampers shall be placed no closer than 6 feet from an air terminal outlet for ducts equal to and smaller than 10" in diameter and 8 times the duct diameter for ductwork larger than 12" or larger.
- C. Flexible duct shall be limited to 5' length with a minimum number of bends. Flexible duct shall not be used as an elbow.

- D. Wall mounted supply and return registers shall be square or rectangular, constructed of extruded aluminum, with adjustable deflection, model type TB for supply and TC for return as manufactured by Tuttle & Bailey. Floor mounted supply and return registers shall be square or rectangular, cast iron as manufactured by Reggio Register. Supply and return registers mounted within wood panels or wood moldings shall be square or rectangular, cast iron as manufactured by Reggio Register. The final louver sizes and locations shall be approved by the architect and engineer prior to placement. NC ratings shall not exceed 22 at the diffuser.

1.4 DUCTWORK INSULATION SYSTEM

- A. Insulation thickness shall be in accordance with latest edition of ASHRAE 90.2: except ductwork insulation shall not be less than 1 1/2" thick fiberglass with vapor barrier. All insulation materials, adhesives, coatings, and other accessories shall have flame spread ratings of 25 or less, and smoke developed ratings of 50 or less as tested by ASTM E84 (NFP A 255) method. All insulation materials shall be installed in accordance with the manufacturer's recommendations and in accordance with the latest edition of SMACNA and ASHRAE standards. Duct risers, within the conditioned space walls, and terminating at air outlets, do not require exterior duct insulation.

END OF SECTION 230000

SECTION 260000 ELECTRICAL PERFORMANCE SPECIFICATION

1.1 ELECTRICAL SYSTEM – GENERAL REQUIREMENTS

- A. Systems shall include, but are not limited to; raceways for all utility service requirements, secondary terminations, all trenching, main distribution and meter socket, load centers, fire alarm devices, telecommunications service, cable-TV service, photovoltaic system.
- B. Provide all electrical connections to all mechanical and plumbing equipment including but not limited to; condensing units, air handling units, make up air unit, boilers, exhaust fans, hydronic pumps, electric heat heaters, water circulating pump, and all control panels.
- C. Comply with all applicable codes for installation of electrical components.

1.2 MAIN ELECTRICAL SERVICE

- A. The electrical service shall be located overhead from utility pole located at street. Coordinate with utility company having jurisdiction.
- B. The service shall be routed from the utility pole to exterior revenue meter as per utility company requirements.
- C. The electrical service shall consist of a 240/120 volt, 200amp, 1 phase, 3 wire to utility meter mounted on building exterior.
- D. Provide all trenching.
- E. Coordinate with utility companies having jurisdiction and local cable company for exact requirements.

1.3 ELECTRICAL DISTRIBUTION SYSTEM

- A. Provide a 200amp 240V 1 phase, 3 wire, 42 pole panel board with 200amp main circuit breaker and 42 20A,1P C/B.
- B. Arc fault type circuit breakers shall be installed in all bedrooms.
- C. Provide surge suppression system for the electrical service, telephone service and CATV service.

1.4 WIRING

- A. Wiring for power distribution and general lighting throughout the interior shall be in non-metallic (Type NM) cable.

- B. All exterior wiring shall be in rigid galvanized steel conduit or PVC.

1.5 LIGHTING AND CONTROLS

- A. Lighting fixtures shall be provided under an allowance for specialty residence interior lighting which will be coordinated with the Architect and Owner. Refer to Section 265100.
- B. Lighting controls shall be a combination of wall rocker switches and dimmer switches. Dimmer switches and light switches shall be Lutron “Decora” style.

1.6 RECEPTACLES

- A. Provide receptacles with cover-plates according to National Electrical Code “NEC 2011” sections 210.52, including but not limited to; bed rooms, living room, family room, dining room, kitchen, exercise room including equipment, bathrooms, powder rooms, mechanical room, work shop, laundry room and equipment, garage, and at each exterior door.
- B. All receptacles in bathrooms, powder rooms, and kitchen shall be GFCI protected.
- C. All receptacles located on the exterior of the residence shall be weather proof listed “While-In Use” and GFCI protected.
- D. Receptacles shall be Lutron “Decora” style.

1.7 FIRE ALARM SYSTEM

- A. The fire alarm system shall consist of 120V smoke detectors with or without built-in strobes in each of the bedroom (strobes are not required by code “owner’s option”).
- B. Combination smoke and CO detectors outside of each bedroom.
- C. Heat detectors in all mechanical spaces, attic and crawl spaces.
- D. All of the smoke and heat detectors shall be interconnected therefore all devices will go into notification mode when activated.

1.8 TELECOMMUNICATION SYSTEM

- A. The telecommunications system shall include a new overhead service from a utility pole to exterior wall area of the house for telephone and data service.
- B. Provide 6 outlet locations with faceplates. The exact location and specific ports and cables shall be coordinated with the Owner and Architect.

1.9 CATV SERVICE

- A. The CATV system shall include a new overhead service from a utility pole to exterior wall area of the house for CATV service.
- B. Provide 4 outlet locations with faceplates. The exact location and specific ports and cables shall be coordinated with the Owner and Architect.
- C. For cabling infrastructure provide RG-6 coaxial cabling for lengths up to 150 feet and RG-11 for lengths 151 to 250 feet.
- D. Outlets and faceplates and the quantity of specific ports and cables shall be coordinated with the Owner and Architect.

END OF SECTION 260000

STRUCTURAL NOTES

GENERAL NOTES

GENERAL:

- All details shall be considered typical and shall apply to all same and similar conditions.
- The Contractor shall field measure and verify all dimensions of the existing building and all dimensions related thereto.
- The Contractor shall be responsible for all temporary shoring and bracing required to maintain the structural stability of the building during construction.
- All work shall be in accordance with Connecticut State Building Code (CSBC) which includes the 2009 International Residential Code, and the 2013 addendum.
- The Contractor shall be solely responsible for construction site safety.

DESIGN LOADS:

- The foundation has been Engineered to resist the following design loads in accordance with CSRC Chapter 3:
 - Floor live loads:
 - First Floor: 40 psf
 - Second Floor: 30 psf
 - Deck: 60 psf
 - Snow load:
 - Ground Snow Load - Pg = 30 psf
 - Wind load:
 - Main Wind Force - Resisting System
 - Basic Wind Speed, (3 sec gust), V = 100 mph
 - Exposure Classification - C
 - Importance Factor - I = 1.00
 - Velocity Pressure Exposure Coefficient, Kz = 0.70
 - Wind Directionality Factor, Kd = 0.85
 - Topographical Factor, Kzt = 1.08
 - Product of Internal Pressure Coefficient and Gust Factor, GCpi = ±0.18
 - Gust Effect Factor, G = 0.85
 - External Pressure Coefficient, Cp = varies
 - Windward Wall, Cp = 0.85
 - Leeward Wall, Cp = -0.50
 - Side Wall, Cp = -0.70
 - Velocity Pressure, qz = 0.00256 x Kz x Kzt x Kd x V2 x I = 20 psf
 - Design Wind Pressure, p = q x (G x Cp) - qi x (GCpi) use 23 psf
 - Earthquake load:
 - Site classification - D
 - Occupancy Category, General Building - I
 - Seismic Use Group, I
 - Occupancy Importance Factor, I = 1.0
 - Seismic Design Category (based on SD1) - B

Earthquake loads for single-family residences are exempt for SDC = B

CAST-IN-PLACE CONCRETE

- Concrete strength at 28 days:
 - 3,500 psi for foundation footings.
 - 3,500 psi for concrete slabs-on-grade.
- Air-entrain all concrete, except for concrete for interior slabs-on-grade.
- Reinforcing steel: ASTM A615 grade 60.
- Concrete work shall be in accordance with ACI 301-99 and ACI 318-02.
- Maximum slump:
 - 4 inches for slabs
 - 5 inches for all other concrete.
- Minimum cover on reinforcing steel:
 - concrete cast against the earth
 - concrete exposed to earth or weather
 - #6 and larger 2"
 - #5 and smaller 1 1/2"
 - interior slabs and walls 3/4"
- Interior floor slab shall receive a steel trowel finish. Exterior slabs and sidewalks shall receive a coarse broom finish. Coordinate with architect.
- Grout and rub all exposed surfaces of foundation walls within 48 hours of pour.
- Admixtures containing calcium chloride shall not be used.
- Apply curing compound to slabs immediately following final troweling.
- The testing laboratory shall cast 4 test cylinders for each 50 yards or each day's pour. Slump tests shall be performed when cylinders are cast. Test 1 cylinder at 7 days and 3 cylinders at 28 days.
- Inspections shall be made of reinforcing steel and concrete placement.

STRUCTURAL STEEL

- ASTM A36 for angles, channels, plates, and miscellaneous sections
- ASTM A501 or A53 for structural pipe
- Anchor rods: ASTM F1554, 3/4 inch diameter unless otherwise noted.
- Shop primer: one coat of red oxide rust inhibitive primer, except for members which are to be encased in concrete, spray fireproofed, or within 2 inches of field welds.
- Steel work shall be in accordance with AISC "Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings."
- Welders shall be certified in accordance with AWS standard qualification procedures.
- Welding electrodes: ASTM A233, E70xx series for all structural connections.

HELICAL PILES:

- All piles shall be patented helical piles and appurtenances as manufactured by A.B. Chance or an approved equal.
- Project is located in the vicinity of Long Island Sound, ground water elevation is tidal. Schedule pile installation during periods of low tide.
- All helical piles shall be installed by factory certified installers.
- All helical pile installations operations shall be supervised by a professional Engineer (Pile Engineer), licensed in the State of Connecticut, and hired by architect.
- The helical piles shall be installed to achieve an ultimate bearing capacity of 30 kips compression. The design capacity of the piles is 15 kips providing a safety factor of 2. The pile contractor shall submit, for review, calculations indicating the minimum pile depth, helix diameter and required torque to achieve the required load based upon the soil boring.
- If the minimum torque has not been achieved at the depth level, the contractor shall have the following options:
 - Install the pile deeper, using additional extensions until the specified torque has been obtained.
 - Remove the existing pile and install a pile with a larger and/or more helices. The revised pile shall be installed beyond the termination depth of the original pile, as directed by the engineer.
 - Add additional piles as recommended by the Pile Engineer.
- Helical piles leads shall have a 1 1/2"x1 1/2" inch shaft with three helices. The lower helix shall have a minimum diameter of 8 inches; the middle helix 10 inches the upper helix shall be 12 inches in diameter. Minimum embedment = 10 feet.
- The helical piles, extensions, and appurtenances shall be hot dipped galvanized in accordance with ASTM A153.
- Helical piles shall be installed as shown on the drawings. All changes to the pile locations must be approved by the Pile Engineer.
- If underground obstructions are encountered during the installation, the contractor shall have the option of removing the obstruction if possible, or relocating the pile with the engineer's approval. The latter option may require the relocation of adjacent piles or the installation of additional piles.
- A neat grout column shall be formed during pile installation.
- The grout column shall have a minimum compressive strength of 2,500 psi.
- Written installation records shall be obtained for each helical pile. The records shall include, but are not limited to, the following:
 - Project name and location
 - Name of contractor's foreman and representative who witnessed the installation.
 - Date and time of installation.
 - Location and/or reference number of each pile.
 - Description of lead section and extensions installed.
 - Overall depth of installation referenced from bottom of existing pile.
 - Torque reading for the last three feet of installation.
 - Any other relevant information relation the installation, such as but not limited to, depth of any obstructions encountered, sudden loss of torque, offset from plan location.

FOR ESTIMATE PURPOSES:

- All piles shall be installed to a depth of 25 feet below elevation + 9.75 ft. The exact embedment lengths shall be verified and recorded in the field by Pile Engineer. Final payment for installation length shall be determined using a constant unit price.

FOUNDATION

- The Contractor shall be responsible for all dewatering, shoring, sheeting, or bracing required to maintain a safe, dry, and stable excavation.
- No pile caps and grade beams shall be placed in water.
- Soil adjacent to and below pile caps and grade beams shall be kept from freezing at all times.
- Provide a granular sub-base under all slabs on grade. Where slab is within a heated space, the sub-base shall be 6 inches of compacted 3/4" crushed stone or bank run gravel with a maximum size of 2 inches. Where the slab is exposed to frost, the sub-base shall be 6 inches of 3/4 inch crushed stone.
- The Contractor shall verify the location of all underground utility lines, sewers, and fuel storage tanks to avoid any damage to these. Contractor shall contact "Call Before You Dig" prior to any excavation.
- Where grade beams are below the groundwater elevation, place 6 inches of crushed stone under footings.

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|--|--|--|--|--|--|
| SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850 | | CLIENT: Lothrop Associates LLP Architects PROJECT NO. G25-9960-15 PROJECT NAME Imperato Residence | | SHEET 1 OF 1 HOLE NO. B-1 | |
| FOREMAN - DRILLER TP/ad | | LOCATION 50 Vista Drive East Haven, CT | | BORING LOCATIONS per Plan | |
| INSPECTOR | | TYPE HSA SS | | CORE BAR SS | |
| GROUND WATER OBSERVATIONS AT _FT AFTER _HOURS AT _FT AFTER _HOURS | | SIZE I.D. HAMMER WT. HAMMER FALL | | OFFSET DATE START DATE FINISH SURFACE ELEV. GROUND WATER ELEV. | |
| AT _FT AFTER _HOURS | | HAMMER WT. HAMMER FALL | | DATE START DATE FINISH SURFACE ELEV. GROUND WATER ELEV. | |
| NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times. | | | | | |
| GROUND SURFACE TO FT. USED CASING THEN CASING TO FT. HOLE NO. B-1 A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST WGR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE | | | | | |

| | | | | | |
|--|--|--|--|--|--|
| SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850 | | CLIENT: Lothrop Associates LLP Architects PROJECT NO. G25-9960-15 PROJECT NAME Imperato Residence | | SHEET 1 OF 1 HOLE NO. B-2 | |
| FOREMAN - DRILLER TP/ad | | LOCATION 50 Vista Drive East Haven, CT | | BORING LOCATIONS per Plan | |
| INSPECTOR | | TYPE HSA SS | | CORE BAR SS | |
| GROUND WATER OBSERVATIONS AT _FT AFTER _HOURS AT _FT AFTER _HOURS | | SIZE I.D. HAMMER WT. HAMMER FALL | | OFFSET DATE START DATE FINISH SURFACE ELEV. GROUND WATER ELEV. | |
| AT _FT AFTER _HOURS | | HAMMER WT. HAMMER FALL | | DATE START DATE FINISH SURFACE ELEV. GROUND WATER ELEV. | |
| NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times. | | | | | |
| GROUND SURFACE TO FT. USED CASING THEN CASING TO FT. HOLE NO. B-2 A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST WGR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE | | | | | |



Lothrop Associates LLP Architects
 100 Pearl Street
 14th Floor
 Hartford, Connecticut 06103
 860-249-7251

White Plains Rochester Red Bank Hartford

STRUCTURAL ENGINEER:



ENVIRONMENTAL ENGINEER:



| | | |
|---|------------|------------------|
| 2 | 05-19-2015 | Addendum #1115-2 |
| 1 | 04-29-2015 | ISSUED FOR BID |

| ISSUE NO. | ISSUE DATE | DESCRIPTION |
|-----------|------------|-------------|
|-----------|------------|-------------|

State Of Connecticut
 Department Of Housing
 505 Hudson Street
 Hartford, Connecticut 06106

Application No. 1115
 HAZARDOUS MATERIAL ABATEMENT
 CONSTRUCTION OF NEW FOUNDATIONS
 RAISING EXISTING RESIDENCE
 FOR
 JANELLE IMPERATO
 50 Vista Drive
 East Haven, Connecticut 06512

STRUCTURAL NOTES
 BORING LOGS

PROJECT NO.: 1524-07 SCALE: AS NOTED

DRAWING NO.:

S-104