



Quisenberry Arcari Architects, LLC
318 Main Street
Farmington, CT 06032

www.qa-architects.com

(860) 677 – 4594 office

(860) 677 – 8534 facsimile

FACSIMILE COVER PAGE

DATE : 06.05.15	JOB # : 2409
RE: 83 Cooper Avenue, Milford, CT	
(CDBG-DR) & (OORR) Programs	
ADDENDUM #1	

PLEASE COMPLETE SECTION BELOW AND FAX BACK TO 860-677-8534

Received (Addendum #1)

CONTRACTOR : _____

SIGNED : _____ Date: _____

NUMBER OF PAGES INCLUDING THIS COVER PAGE: 19

FROM: Jeff Jahnke, AIA

**Community Development Block Grant Disaster Recovery Program (CDBG-DR)
Owner Occupied Rehabilitation and Rebuilding Program (OORR)**

(#2409) 83 COOPER AVENUE, MILFORD, CT

**Addendum # 01
June 5, 2015**

GENERAL / CLARIFICATIONS

Pre Bid Attendance List (see attached)

Clarification

1. Replace Bid Form with attached (Revised) Bid Form.
2. Drawings E1.1 and E1.2 in the bid set are to be replaced with the attached E1.1 and E1.2.
3. Drawings P1.1 and P2.1 in the bid set are to be replaced with the attached P1.1 and P2.1.
4. See attached Test Boring Report.
5. Coordinate location of second hose-bib with the owner prior to commencing plumbing rough-in.
6. Coordinate location of additional cable TV and data outlets with the owner prior to commencing electrical rough-in.
7. Provide Full View Storm Door with Screen for Door 1 and Door 6.
8. Provide Conventional Fiberglass Screens for all windows.
9. Provide Glass Shower Door to match shower enclosure.

END OF ADDENDUM #1

Community Development Block Grant Disaster Recovery Program (CDBG-DR)

Owner Occupied Rehabilitation and Rebuilding Program (OORR)

#2409 83 COOPER AVENUE

PRE-BID WALK-THROUGH SIGN-IN SHEET

Name	Company	Address	Phone & Fax	Email
Ken Thamy	Kenneth Thamy II LLC	207 Maplewood Lane Orange	203-414-4492	kenrct717@gmail.com
Chris Anastasio	wertchester modular Homes	4 Stony Hill Rd Bethel CT	203-868-6426	Chris@Today'sModular.com
Chris Theriault	Jim Construction and son LLC	70 Cummings Ave Fairfield Ct.	203-256-5785	JConstruct@aol.com
Matthew Willard	Banton Construction	339 Washington Ave North Haven, CT. 06473	P 203-234-2353 F 203-234-0010	mwillard@bantonstr.com
Ken Esposito	MADSON Properties	15 Wintersgreen Dr. EASTON, CT 06612	203-218-4141	espokje@aol.com
GABRIEL GONZALEZ	CHARTER OAK ENVIRONMENTAL	350 NAWATUCK AV. MILFORD, CT	888-775-6090 BOTH	gabe@coenviro.com
Gary Broderick	A. Scardino and son, INC	21 Acorn Rd Branford, CT 06405	203-481-3496	gbroderick@aScardinoandson.com
Dan Scardino	Dan A Scardino + son	21 Acorn Rd Branford, CT	11 11	Dan@AScardinoandson.com
Joseph DeRisi	Urbanminers LLC	30 Manila Ave Hamden, CT	203.287.0952	Urbanminers@gmail.com

Community Development Block Grant Disaster Recovery Program (CDBG-DR)

Owner Occupied Rehabilitation and Rebuilding Program (OORR)

#2409 83 COOPER AVENUE

PRE-BID WALK-THROUGH SIGN-IN SHEET

Name	Company	Address	Phone & Fax	Email
RICK Turzyk	RICK'S Plumbing Service Inc	1050 Bridgeport Rd Milford Ct 06460	203-874-6629 F-203-877-0818	RICK@RICKSPLUMBING.COM
GLEN MARKOVICS	DSW	58 RIVER ST MILFORD CT	203-693-2776	GLEN.MARKOVICS@DSWHOMES.COM
Brock Masler	DSW			Brock.Masler@Dswhomes.com Daniel.Foster@Dswhomes.com
Jim Rusco	J.R. Rusco LLC			RJames298@AOL.COM
Suzanne Mazzotta	DOH			Suzanne.mazzotta@doh.gov
Jeff Jabulce	Q.A.A.			

(Revised) BID FORM

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. **2409** and Addenda No. ___ and ___ thereto, as prepared by Quisenberry Arcari Architects, LLC at 318 Main Street, Farmington, CT 06032, and on file in the office of DOH, hereby proposes to furnish all permits, labor, materials, tools, equipment, and related items required for the rehabilitation and reconstruction including general construction, site improvements, plumbing, heating, electrical, and finish items for said Project No. **2409** located at **83 Cooper Avenue** in **Milford**, State of Connecticut, all in accordance with the Drawings and Specifications, for the sum of:

_____ Dollars (\$ _____)

ALTERNATE PROPOSALS

The undersigned bidder further proposes and agrees that should any or all of the following Alternates be accepted and included in the Contract, the amount of the Base Bid, as heretofore stated, shall be adjusted by the amount stated for each Alternate. All materials and workmanship shall be in strict accordance with the Drawings and Specifications and shall be in-place prices.

Alternates

Alternate 1a: Provide cost for demolition/removal of existing structure and all associated components from site.

Alternate 1b: Provide a cost for the deconstruction/removal of the existing structure and all associated components from site.. Use Urbanminers, LLC – 30 Manila Avenue, Hamden, CT (Joseph D. DeRisi – 203.287.0852) or equal as a basis for bid.

Alternate 2a: Provide a cost for Ethylene Propylene Diene Monomer (EPDM) Roofing in accordance with specification section 075323.

Alternate 2b: Provide a cost for Thermoplastic Polyolefin (TPO) Roofing in accordance with specification section 075423.

Allowances

#1 **\$15,000.00 For Miscellaneous Improvements**

Contractor to initial to acknowledge
inclusion of allowance in bid price

Supervision

Full time Supervision

Contractor to initial to acknowledge
inclusion of full time supervision in bid price

The undersigned agrees to commence the work on a date to be specified in the contract and to complete such work within **150** consecutive calendar days.

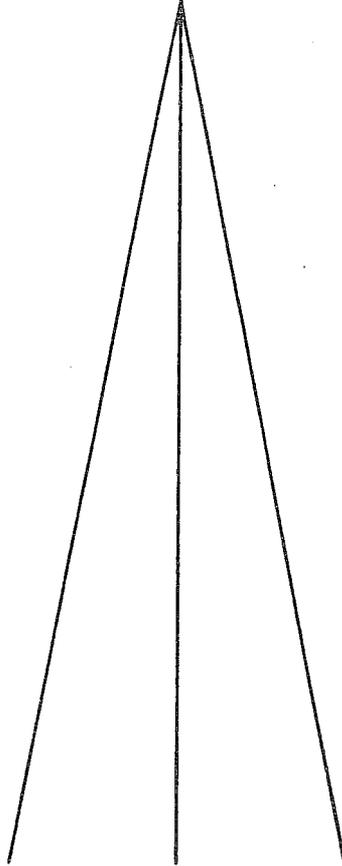
The undersigned agrees that if within the period of thirty (30) calendar days after the opening of bids, or when extended to the next work day immediately following said period, notice of the acceptance of this bid shall be mailed, or delivered to him/her at the business address given below, or at any time thereafter before this bid is withdrawn. Quisenberry Arcari Architects will

within fifteen (15) calendar days thereafter deliver to DOH, where directed, a contract properly executed in such number of counterparts as may be required by said DOH, on the forms annexed, with such changes therein as shall have been made by the DOH, prior to the time named for delivery of this proposal, together with a 100% Performance Bond of a Surety Company, which Surety must be authorized to transact business in the State of Connecticut, and duly qualified therefore, and in the form constituting part of the Specification and a letter indicating those Small/Minority Business Enterprises that will perform work and/or provide materials, equipment or services as part of the contract.

In submitting this bid, it is understood that the right is reserved by the abovementioned DOH to reject any and all bids; and it is agreed that this bid may not be withdrawn for a period of thirty calendar (30) days from the date of bid opening or until the next work day immediately following said period if such period ends on weekend or a State holiday.

SOILTESTING, INC.

TO Quisenberry Arcari Architects, LLC DATE August 26, 2014
ADDRESS 318 Main Street, Farmington, CT 06032
SITE LOCATION 83 Cooper Avenue, Milford, CT,
REPORT SENT TO Andrew Tarpill
SAMPLES SENT TO Storage (Max. 60 days)



90 Donovan Road
Oxford, Connecticut 06478-1028
203-262-9328

Branch Office:
White Plains, New York 10607
914-946-4850

JOB NO.
G156-9797-14

Phone
(203) 262-9328

Telefax
(203) 264-3414

WHITE PLAINS, N.Y.
(914) 946-4850



SOILTESTING, INC.

90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS



August 26, 2014

Quisenberry Arcari Architects, LLC
318 Main Street
Farmington, CT 06032
860-677-4594

Attn: Andrew Tarpill

Re: 83 Cooper Avenue
Milford, CT

G156-9797-14

Dear Mr. Tarfano,

Enclosed are boring logs and location plan for the above referenced project site.

If you have any questions, please do not hesitate to contact us.

Very truly yours,
SOILTESTING, INC.

James A. DeAngelis
President

JAD:lg



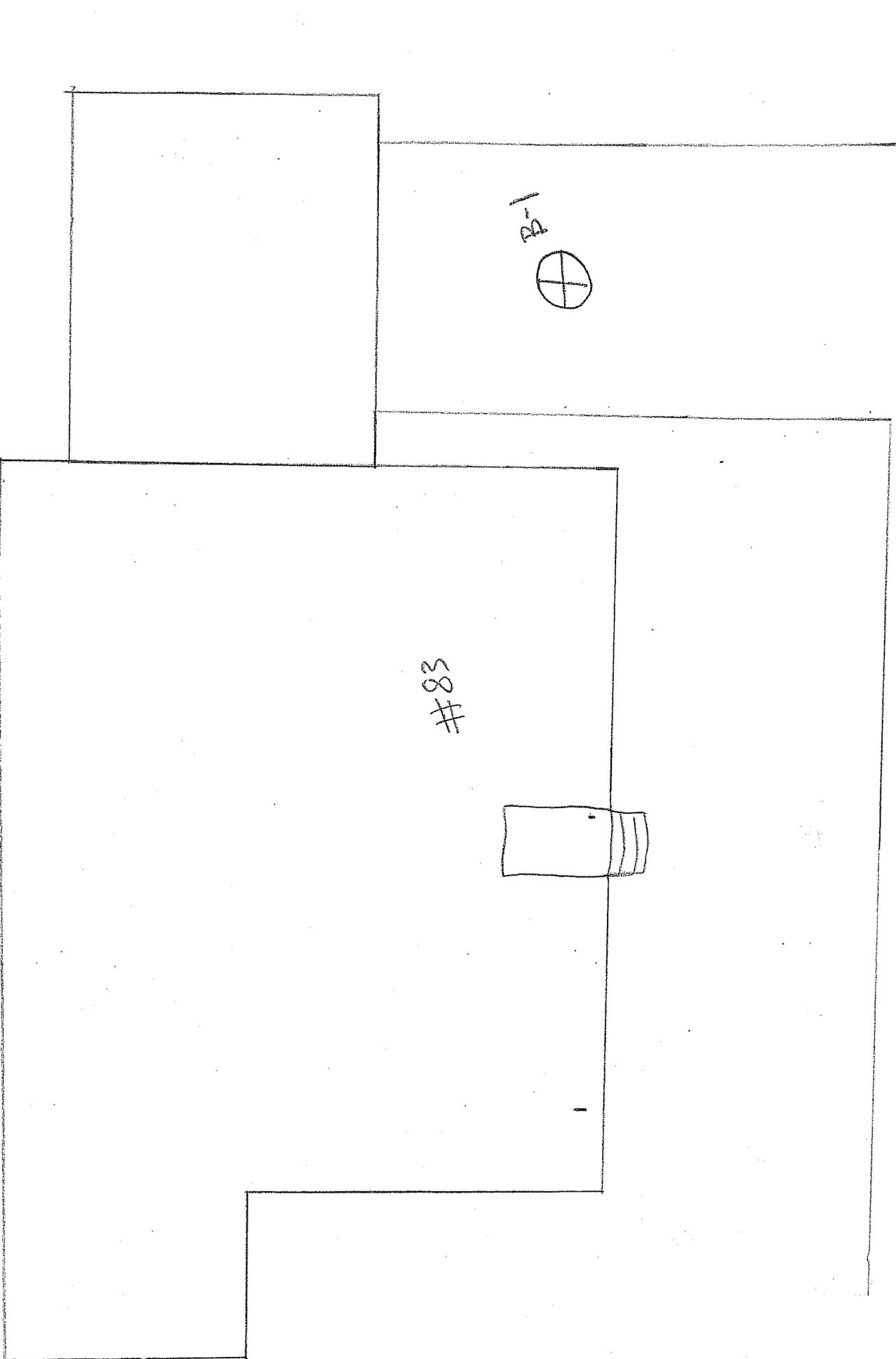
SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Quisenberry Arcari Architects	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. G156-9797-14	HOLE NO. B-1
	PROJECT NAME 83 Cooper Avenue	BORING LOCATIONS per Plan
FOREMAN - DRILLER TP/ad/mc	LOCATION Milford, CT	
INSPECTOR	CASING HSA SAMPLER SS CORE BAR	OFFSET
GROUND WATER OBSERVATIONS AT <u>5</u> FT AFTER <u>0</u> HOURS	TYPE	DATE START 8/13/14
AT <u> </u> FT AFTER <u> </u> HOURS	SIZE I.D. 4 1/4"	DATE FINISH 8/13/14
	HAMMER WT. 140#	SURFACE ELEV.
	HAMMER FALL 30"	GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT	0 - 6	6 - 12	12 - 18				
5		1	ss	24"	14"	2'0"	3	3		moist	1'0"	drk brn SILT (topsoil) sm F gravel, lit FM sand	
							12	13		compact		brn FMC SAND, sm F gravel, lit silt	
		2	ss	24"	12"	4'0"	14	20		dry		gry brn FMC SAND, sm F gravel, tr silt (fill)	
							14	7		dense			
		3	ss	24"	18"	6'0"	3	2		moist-wet	5'0"		
10							1	1		soft		gry ORGANIC SILT & PEAT	
		4	ss	24"	20"	8'0"	2	1		wet	7'0"		
							1	1		v loose		gry VF F SAND & ORGANIC SILT, lit peat	
		5	ss	24"	18"	10'0"	4	6		wet		brn gry VF F SAND, lit organic silt, roots	
							11	11		compact		brn FMC SAND, lit F gravel	
15		6	ss	24"	19"	12'0"	6	8		wet		gry FM SAND, lit C sand	
							10	11		compact			
		7	ss	24"	24"	17'0"	4	5		wet	16'0"	gry FM SAND	
20							8	13		compact		gry brn VF SAND, lit silt	
		8	ss	24"	20"	22'0"	4	9		wet		gry brn VF SAND, sm silt	
25							11	13		compact			
		9	ss	24"	16"	27'0"	6	9		wet	25'0"	gry SILT	
30							11	12		v stiff			
		10	ss	24"	15"	32'0"	11	11		wet		gry SILT, it VF sand, tr clay, F gravel	
35							12	22		v stiff		lit C gravel, tr cobble 32 - 33'	
		11	ss	24"	18"	37'0"	8	10		wet		gry SILT	
40							10	11		v stiff	37'0"		
												E.O.B. 37'0"	

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
 WOR = 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



Cooper Ave

Geotechnical Engineering Report

by

The Geotechnical Department, LLC

for

Soiltesting, Inc.

Dated: August 25, 2014

Quisenberry Arcari Architects, LLC

G156-9797-14

The Geotechnical Department, LLC

Consulting Engineers

41 Blanche Avenue, Demarest, NJ 07627

201-784-4444 • Fax: 201-768-0222

August 25, 2014
Project No. 2074

Quisenberry Arcari Architects, LLC
318 Main Street
Farmington, Connecticut 06032

Attn: Adam Tarfano, AIA

Re: Geotechnical Engineering Report
Proposed Alterations to Raise House
83 Cooper Avenue
Milford, Connecticut

This report is submitted as per our agreement with Soiltesting Inc. and the attached "Geotechnical Limitations." It includes our findings, conclusions and recommendations related to the design and construction for raising the house for future flood protection.

One (1) test borings was performed by Soiltesting Inc. on August 13, 2014. The location plan and record sheet are attached as part of this report. This information was used in preparation of this report.

Based on our interpretation of field conditions and the scope of the project it was deemed unnecessary to perform laboratory soil tests to assist with the identification of soil and the evaluation of their engineering properties.

Subsurface conditions include soil fill consisting of sand with silt and gravel to a depth of five (5) feet. Soft organic silt with peat then exists to a depth of seven (7) feet. Medium dense sand and organic silt with peat continues the soil profile to a depth of sixteen (16) feet. Then medium dense sand with silt exists to a depth of twenty-five (25) feet where very stiff silt with sand exists to the maximum depth of exploration, thirty-seven (37) feet.

Water was observed in the borehole at a depth of five (5) feet at the time the boring was completed.

The following were considered in developing the conclusions and recommendations of this report:

1. A rough sketch plan showing the house plan and boring locations.
2. The proposed work is to raise the existing building foundation for flood protection.
3. Differential settlement should not be greater than three-quarters (3/4) of an inch across the house footprint.
4. Design and construction shall be in accordance with the Connecticut Building Code (Code).

The in-place sand fill and organic layers are not suitable for the support of conventional spread footings. Spread footings bearing on the suitable soil below the fill and organics or on quality compacted soil fill placed after removal of the fill and organics are foundation alternatives. These alternatives, however, are considered impractical due to equipment access constraints, the quantity of excavation and backfill and the need for dewatering the excavation to allow construction.

Deep foundations are deemed a more appropriate foundation alternative. Drilled-in piles could be installed with the tips bearing in the undisturbed medium dense sand system below the in-place fill and organic silt and peat. Driven piles are not an option due to equipment access issues.

The following geotechnical design and construction recommendations are offered:

1. Use drilled-in pile foundations for support of the existing and/or altered house foundation.
2. Tabulated below are design recommendations for several typical pile sections. The capacities refer to the soil/pile interaction, not the structural capacity of the section performing as a column.

Drilled-In Pile Type	Design Capacity (tons)	Installed Capacity* (tons)
Grouted Pipe: 7" diameter	17	20
Auger (Helical)	9	12
Resistance Pier	8	10

** These values consider downdrag on the pile due to settlement of surrounding miscellaneous fill and organics.*

3. The pile tips should penetrate to a minimum depth of eighteen (18) feet below the existing site grades.
4. One (1) drilled-in pile should be load-tested in accordance with the ASTM D1143 Standard prior to installing the production piles.
5. The piles should be delivered to the project under a design-test-install type agreement. The design, testing and installation should be performed under the direction and signature of a licensed Engineer with experience with this type of work.
6. The Project Structural and Geotechnical engineer should review the design, test results and installation records.

We trust these recommendations will allow you to complete the design and construction of the alterations.

Very truly yours,
THE GEOTECHNICAL DEPARTMENT, LLC



Thomas H. Otto, P.E.

Attachments: Geotechnical Limitations
Boring Location Plan
Boring Record Sheet

Cc: Soiltesting Inc.

GEOTECHNICAL LIMITATIONS

Explorations

- The analyses and recommendations submitted in this report are based in part upon the data obtained from subsurface explorations. The nature and extent of variations between and apart from these explorations may not become evident until construction. If variations then appear evident, it will be necessary to reevaluate the recommendations of this report.
- The generalized soil profile described in the text is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and have been developed by interpretations of widely spaced explorations and samples; actual soil transitions are probably more erratic.
- Water level readings have been made in the drill holes at times and under conditions stated on the boring logs. These data have been reviewed and interpretations have been made in the text of this report. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall, temperature, and other factors occurring since the time measurements were made. More precise determinations of groundwater levels would require the installation of groundwater observation wells and water level readings taken over an extended period of time.

Review

- In the event that any changes in the nature, design or location of the proposed building are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and conclusions of this report modified or verified in writing by this firm. Further, it is recommended that this firm be provided the opportunity for a general review of final design and specifications in order that earthwork and foundation recommendations may be properly interpreted and implemented in the design and specifications.

Construction

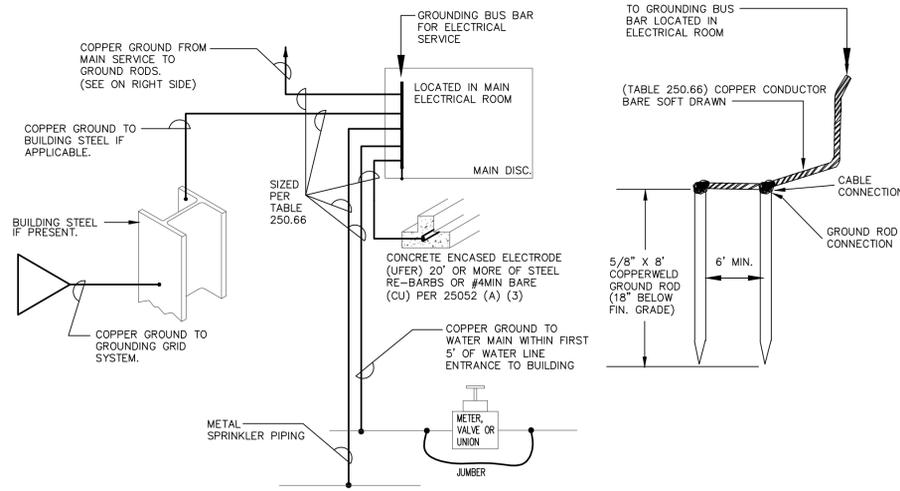
- It is recommended that this firm be retained to provide geotechnical engineering services during construction of the excavation and foundation phases of the work. This is to observe compliance with the design concepts, specifications, and recommendations and to allow design changes in the event that subsurface conditions differ from those anticipated prior to start of construction.

Use of Report

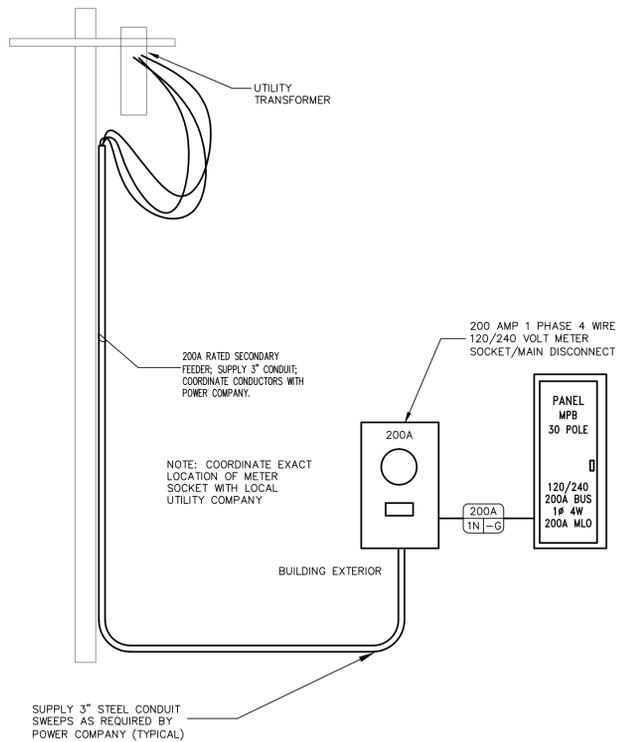
- This report has been prepared for the exclusive use of Quisenberry Arcari Architects, LLC, for specific application to construction at 83 Cooper Avenue, Milford, Connecticut, in accordance with generally accepted soil and foundation engineering practices. No other warranty, expressed or implied, is made.
- This report is for *design* purposes only and is not sufficient to prepare construction cost estimates or bids.

NOTE:

- IF AVAILABLE ON THE PREMISES AT EACH BUILDING OR STRUCTURE SERVED, EACH ITEM IN NEC 250.52 (A)(1) THROUGH (A)(6) SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. WHERE NONE OF THESE GROUNDING ELECTRODES ARE AVAILABLE, E.C. SHALL PROVIDE AT LEAST ONE PRIMARY GROUNDING ELECTRODE SYSTEM AND AT LEAST ONE SUPPLEMENTAL GROUNDING ELECTRODES AS SPECIFIED IN 250.52 (A)(4) THROUGH (A)(7).
- ALL OTHER METAL PARTS LIKE INTERNAL CU PLUMBING, MAIN SPRINKLER PIPE, WATER MAIN, GAS PIPES ETC SHALL BE BONDED WITH MAIN SERVICE GROUNDING WITH APPROPRIATE GROUNDING CONDUCTOR SIZED PER NEC.
- GROUNDING GRID TO BE INSTALLED 1'-8" BELOW FINISHED GRADE. ALL CONNECTIONS SHALL BE CADWELD.
- THE GROUND RODS SHALL BE INSTALLED SUCH THAT AT LEAST 8 FEET OF LENGTH IS IN CONTACT WITH THE SOIL. IT SHALL BE DRIVEN TO A DEPTH OF NOT LESS THAN 10 FEET EXCEPT THAT, WHERE ROCK BOTTOM IS ENCOUNTERED, THE ROD SHALL BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 2 1/2' DEEP.
- CONNECT MAIN SERVICE GROUNDING BUS TO BUILDING STEEL IF APPLICABLE. BUILDINGS WITHOUT STEEL STRUCTURE SHALL HAVE COPPER GROUNDING DIRECTLY CONNECTED TO GROUNDING GRID SYSTEM.
- PROVIDE GROUNDING ELECTRODE CONDUCTORS SIZED PER NEC



ELECTRICAL SERVICE AND BUILDING GROUNDING DETAIL
NO SCALE

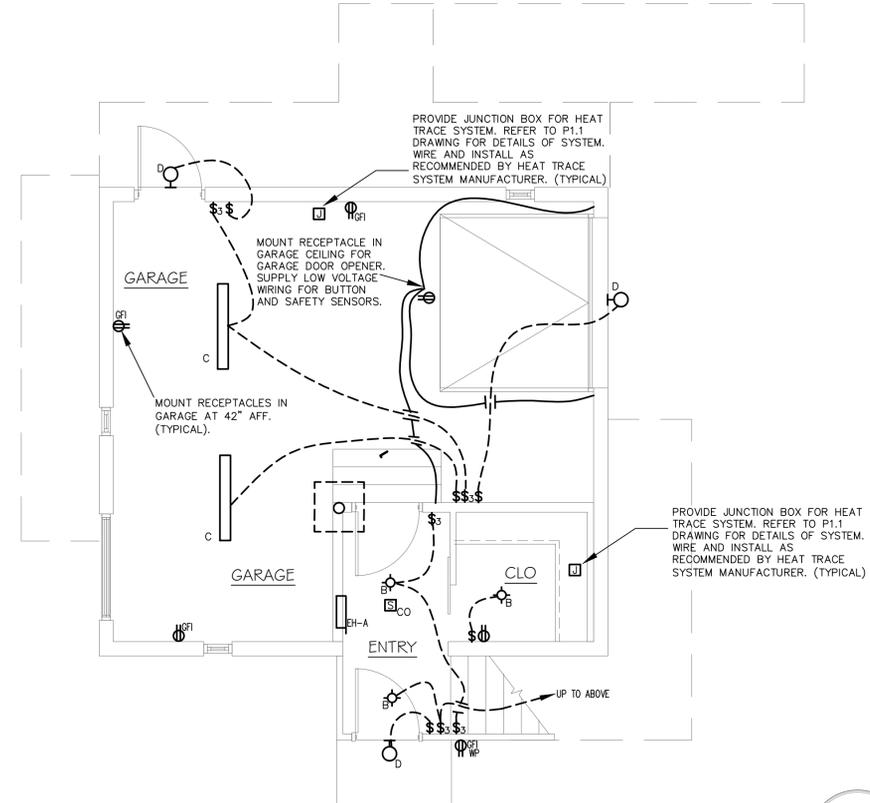


ELECTRICAL GENERAL NOTES:

- ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE BUILDING CODES.
- E.C. SHALL OBTAIN AND PAY FOR BOTH ROUGH AND FINAL INSPECTION AND OBTAIN A CERTIFICATE OF "ELECTRICAL INSPECTION". THIS CERTIFICATE SHALL BE PRESENTED WITH REQUEST FOR FINAL PAYMENT.
- IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND OPERATING ELECTRICAL SYSTEM. THE E.C. SHALL FURNISH AND INSTALL ALL WIRING, CONDUIT, EQUIPMENT, MATERIAL, ETC. AS REQUIRED, EXCEPT WHERE SPECIFICALLY NOTED AS BEING FURNISHED BY OTHERS. SHOULD THERE BE ANY QUESTIONS CONCERNING RESPONSIBILITY, THE QUESTIONS SHALL BE SETTLED BEFORE BID SUBMISSION AND CONTRACT SIGNING. NO EXTRA CHARGES WILL BE ALLOWED.
- THE E.C. SHALL COORDINATE ALL PHASING OF WORK WITH THE ARCHITECT, GENERAL CONTRACTOR AND/OR OWNER OF THE PROJECT.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS, ARRANGEMENTS, MOUNTING HEIGHTS, CEILING CONSTRUCTION, ETC. ALL COLORS AND FINISHES TO BE SELECTED BY THE ARCHITECT.
- ALL ELECTRICAL EQUIPMENT SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE LOCAL AND STATE BUILDING CODE.
- ALL NECESSARY MOUNTING HARDWARE, HANGERS, BRACKETS, RAILS, YOKES, STEMS, CHAINS, ETC. SHALL BE FURNISHED AND INSTALLED BY E.C.
- ALL WIRING INSTALLED UNDER THIS CONTRACT SHALL BE TESTED FOR PROPER CONNECTIONS AND SHORT CIRCUITS PRIOR TO THE TURNING OVER OF WORK AS A COMPLETE UNIT.
- ALL CONDUITS PASSING THROUGH PARTITIONS ARE TO BE APPROPRIATELY SLEEVED AND SEALED.
- E.C. SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL AND FINAL ACCEPTANCE.
- ALL CONDUIT AND WIRING SHALL BE RUN CONCEALED IN WALLS, FLOORS AND CEILINGS UNLESS OTHERWISE NOTED TO BE EXPOSED.
- ALL WIRING SHALL BE TYPE THWN OR THW UNLESS OTHERWISE NOTED. FOR CONDUCTORS LARGER THAN #6 AWG, TYPE XHHW WILL BE ACCEPTED.
- CONDUCTORS SIZED #10 AWG AND SMALLER SHALL BE SOLID WIRE CONDUCTORS. CONDUCTORS SIZED LARGER THAN #10 AWG SHALL BE STRANDED TYPE. COMMUNICATIONS AND CONTROL WIRE SHALL BE #14 GAUGE STRANDED, SHIELDED.
- ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED
- ALL DRAWINGS ARE SCHEMATIC IN NATURE; ALL DEVICES SHALL BE INSTALLED IN ALL AREAS AND LIVING SPACES PER NEC AND SHALL BE DIMENSIONED IN FIELD TO MEET PROPER CODES; ALL DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION DURING BID PROCESS AND/OR ADJUSTED IN FIELD DURING CONSTRUCTION
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.

ELECTRIC SYMBOL LIST

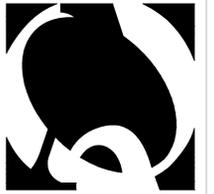
	DUPLIX RECEPTACLE OUTLET
	DUPLIX RECEPTACLE OUTLET MOUNTED ABOVE COUNTERTOP
	SINGLE RECEPTACLE OUTLET
	SPECIAL PURPOSES OUTLET; 208/240 VOLT
	TYPICAL LIGHTING FIXTURES (see schedule)
	SINGLE POLE WALL SWITCH
	WALL SWITCH: 3 DENOTES THREE WAY; 4 DENOTES FOUR WAY
	SWITCH WITH THERMAL OVERLOAD
	WIRE CONCEALED IN WALLS OR CEILING
	SWITCHED CIRCUIT
	HOMERUN TO SERVICE PANEL; NUMBER OF WIRES INDICATED
	TELEVISION LOCATION; PROVIDE CABLE PER UTILITY COMPANY SPECIFICATIONS PULLED FROM BUILDING DERMARCO TO BOX IN WALL WITH COVER PLATE; REFER TO SPECIFICATIONS FOR FURTHER DETAIL
	CIRCUIT BREAKER PANEL BOARD - VOLTAGE NOTED
	DISCONNECT SWITCH
	THERMOSTAT
	JUNCTION BOX
	TELEPHONE OUTLET; PROVIDE CABLE PER UTILITY COMPANY SPECIFICATIONS FROM BUILDING DERMARCO TO BOX IN WALL WITH COVER PLATE. TYPICAL TO ALL PHONE LOCATIONS; REFER TO SPECIFICATION FOR FURTHER DETAIL
	GROUND FAULT CIRCUIT INTERRUPTER
	WEATHERPROOF



LOWER LEVEL FLOOR PLAN

SCALE: 1/4" = 1'-0"

1



QUISENBERRY ARCARI ARCHITECTS, LLC
www.qa-architects.com
T (860) 677-4594
F (860) 677-8534
318 Main Street
Farmington, CT 06032

REHABILITATION/RECONSTRUCTION WORK FOR:

JEFF MILLER

APPLICANT #2409

83 COOPER AVE. MILLFORD, CT

Sheet Description:

ELECTRICAL LOWER LEVEL FLOOR PLAN

Issue Dates:

May 15, 2015

Project #:

QA 1346-32

Drawn By:

SS

Sheet #:

E1.1

- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND LOCATIONS. VERIFY WITH ARCHITECTURAL PLANS AND COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN. NOTIFY THE ARCHITECT/G.C. OF ANY DISCREPANCIES IF DISCREPANCIES ARE NOTED. DO NOT PROCEED WITHOUT ARCHITECTURAL APPROVAL.
- HVAC AND PLUMBING EQUIPMENT ARE SHOWN FOR REFERENCE ONLY. E.C. SHALL COORDINATE EXACT LOCATIONS AND POWER REQUIREMENTS OF APPLICABLE HVAC AND PLUMBING EQUIPMENT WITH MECHANICAL DRAWINGS. E.C. SHALL MAKE ALL FINAL CONNECTIONS TO ALL CONTROLS, OWNER-SUPPLIED EQUIPMENT, MECHANICAL AND PLUMBING EQUIPMENT AS NEEDED.
- E.C. SHALL PROVIDE DISCONNECT SWITCHES AND STARTERS AS REQUIRED FOR ALL EQUIPMENT WHERE THE DISCONNECT SWITCH IS NOT PROVIDED WITH THE EQUIPMENT OR BY OTHERS.
- E.C. SHALL SUPPLY AND INSTALL FEEDERS, FUSES AND CIRCUIT BREAKERS TO MATCH THE NAME-PLATE RATING OF ALL EQUIPMENT. THIS SHALL BE INCLUDED IN THE INITIAL BID PROPOSAL AND NO EXTRAS WILL BE ACCEPTED.
- ELECTRICAL OUTLET PLATE GASKETS SHALL BE INSTALLED IN ALL RECEPTACLES, SWITCHES OR OTHER ELECTRICAL BOXES IN WALLS SEPARATING CONDITIONED AND UNCONDITIONED SPACE.
- ALL HOMERUNS TO PANELBOARDS DESIGNATED SHALL CONSIST OF 2#12 AWG & 1#12 GROUND IN 3/4" CONDUIT TO PANEL LABELED AT THE HOMERUN SYMBOL UNLESS OTHERWISE NOTED.
- PROVIDE AFCI TYPE BREAKERS FOR ALL 120 VOLT 15 AND 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS IN SLEEPING AREAS IN UNIT.
- PROVIDE TAMPER PROOF OUTLETS FOR ALL 15A AND 20A CIRCUITS (EXCLUDING OUTLETS LOCATED IN DEDICATED SPACES IE REFRIGERATORS, DISHWASHER, WASHING MACHINES AND THE LIKE) IN LIVING SPACES OF DWELLING UNITS, CHILD CARES AREAS AND EDUCATIONAL AREAS.
- CONNECT ALL BATHROOM EXHAUST FANS TO ASSOCIATED LIGHT SWITCH UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO HVAC CONTROL WIRING; COORDINATE ALL REQUIREMENTS WITH DIV 15
- ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED
- CONNECT SMOKE/CO DETECTORS TO BEDROOM CIRCUIT.
- COORDINATE WITH ARCHITECT FOR EXACT LOCATIONS OF RECEPTACLES, SWITCHES AND LIGHT FIXTURES IN ALL AREAS.
- PROVIDE DUPLEX RECEPTACLE UNDER SINK BASE. TOP HALF TO BE SWITCHED TO ACCOMMODATE CORD CONNECTED DISPOSAL. PROVIDE CIRCUIT TO BOTTOM HALF TO ACCOMMODATE CORD CONNECTED DISHWASHER. NOTE: USE OF THIS CONFIGURATION REQUIRES THESE CIRCUITS TO BE CONNECTED TO A TWO(2) POLE BREAKER PER NEC 210.4.

CTK	DESCRIPTION	WATTS	AMP	CB	AMP	WATTS	DESCRIPTION	CTK
1	RANGE	6000	50/2P	A	40/2P	2500	DRYER	2
3		6000		B		2500		4
5	SMALL APPLIANCE	1500	20	A	20	1500	SMALL APPLIANCE	6
7	REFRIGERATOR	750	20	B	20	1200	DISHWASHER	8
9	WASHER	1200	20	A	20	750	DISPOSAL	10
11	LIVING ROOM	960	20	B	20	1500	DINING ROOM	12
13	BEDROOM ARC FAULT	960	20	A	20	720	BEDROOM ARC FAULT	14
15	BATH RECEPTACLE	1500	20	B	20	400	LIGHTS	16
17	GENERAL RECEPTACLE	720	20	A	20	400	LIGHTS	18
19	HEAT TRACE	1000	20	B	2P/20	750	EH-1	20
21				A		750		22
23				B	20			24
25				A	20			26
27	WATER HEATER	200	20	B	30/2P	2000	COOLING	28
29				A		2000		30
TOTAL WATTS/PH:		A= 19000		B= 18760			TOTAL WATTS: 37760	
							TOTAL AMPS: 181.5	

NOTES:
 1. VERIFY BREAKERS WITH NAMEPLATE RATINGS OF EQUIPMENT IN FIELD.
 2. PROVIDE SIX (6) 20A-1P SPARE BREAKERS.
 3. PROVIDE FULL COPPER BUSSING.

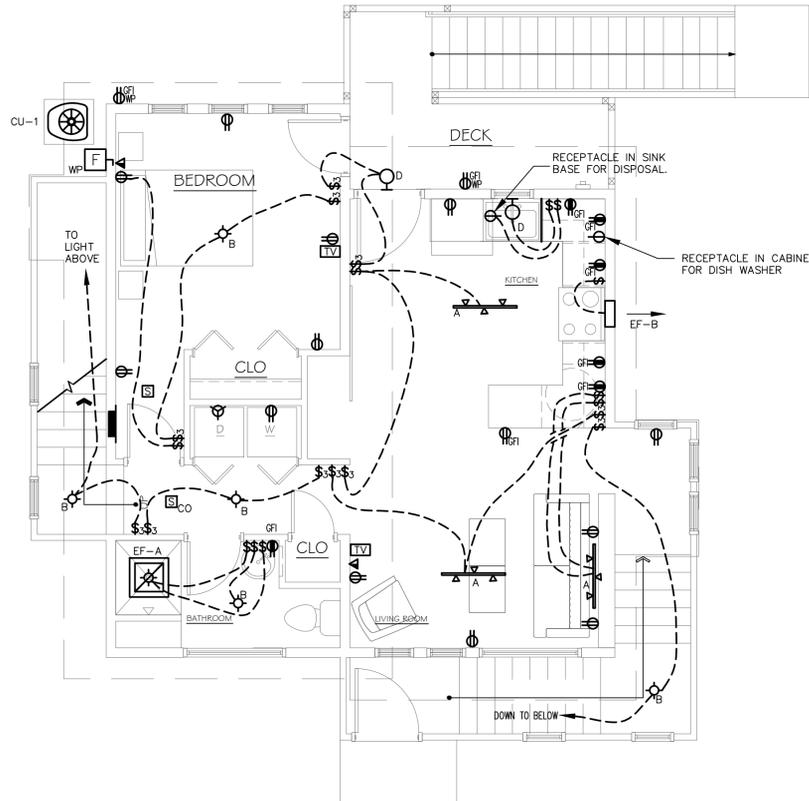
LIGHTING FIXTURE SCHEDULE						
TYPE	MFG.	CATALOG #	DESCRIPTION	LAMPS	VOLTAGE	
A	HALO	CAT# LASER TRACK BY HALO W/ LZR1330 HEADS	4' TRACK WITH 3 HEADS; COLOR TO BE SELECTED BY ARCHITECT	75 WATT PAR 30	120	
B	HALO	CAT# SLD405-90-30-WHJB	LED SURFACE DOWN LIGHT	INC	120	
C	COOPER	CAT# RZL-NL-3L35-1C-UNV-SU-JB-4-W	4' SURFACE LINEAR LED FIXTURE	INC	120	
D	COOPER	CAT# VT100G PLUS W/VERBTAIM A19 LED LAMP	"JELLY JAR" TYPE FIXTURE	INC	120	

ELECTRICAL LIGHTING NOTES:

- ALL LIGHT FIXTURES IN CEILING SHALL BE BRACED TO THE BUILDING STRUCTURE AND NOT TO THE CEILING.
- PROVIDE IC HOUSING FOR LIGHTING FIXTURE WHERE REQUIRED; COORDINATE WITH ARCHITECTURAL PLANS.

SITE ELECTRICAL NOTES:

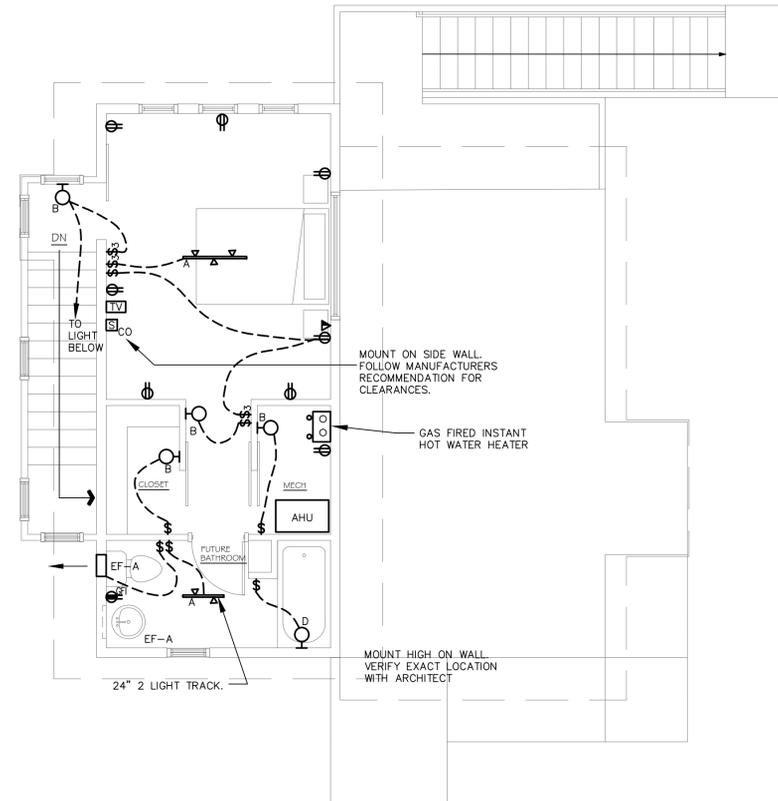
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL REQUIREMENTS, LOCATIONS AND ROUTING WITH LOCAL UTILITIES BEFORE INSTALLING ANY EQUIPMENT AND ASSOCIATED WIRING AND DEVICES TO UTILITY EQUIPMENT.
- PROVIDE THREE (3) 2" CONDUIT FOR TELEPHONE, CATV AND SPARE TO MAIN ELECTRICAL SERVICE LOCATION. VERIFY AND COORDINATE ALL LOCATIONS WITH LOCAL UTILITIES BEFORE INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TRENCHING FOR UTILITY CONDUIT; FINAL REQUIREMENTS AND COORDINATION TO BE MADE WITH LOCAL UTILITIES.
- ALL UNDERGROUND CONDUITS SHALL BE BURIED AND INSTALLED TO THE DEPTH PER NEC TABLE 300.5.



MAIN LEVEL FLOOR PLAN

SCALE: 1/4" = 1'-0"

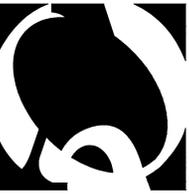
2



UPPER LEVEL FLOOR PLAN

SCALE: 1/4" = 1'-0"

3



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REHABILITATION/RECONSTRUCTION WORK FOR:

JEFF MILLER

APPLICANT #2409

MILLFORD, CT

83 COOPER AVE.

Sheet Description:

ELECTRICAL MAIN AND UPPER LEVEL FLOOR PLAN

Issue Dates:

May 15, 2015

Project #: QA 1346-32
 Drawn By: SS

Sheet #:

E1.2





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REHABILITATION/RECONSTRUCTION WORK FOR:

JEFF MILLER

APPLICANT #2409

MILLFORD, CT

83 COOPER AVE.

Sheet Description:

PLUMBING FLOOR PLANS

Issue Dates:
May 15, 2015

Project #: QA 1346-32
 Drawn By: RJM

Sheet #:

P1.1

- PLUMBING NOTES** NOTES PERTAIN TO ALL DRAWINGS
1. ALL BRANCH PLUMBING WATER PIPES TO HAVE STOP AND WASTE VALVES.
 2. PIPING AS SHOWN IS ONLY DIAGRAMMATICALLY PRESENTED; CONTRACTOR IS TO COORDINATE WITH OTHER TRADES AND STRUCTURAL ELEMENTS.
 3. ALL PENETRATIONS OF RATED ASSEMBLIES TO BE SEALED WITH APPROVED FIRE RATED CAULK; FIRE PENETRATION SYSTEMS SHALL MEET THE UL LISTING FOR EXISTING WALL OR FLOOR CONSTRUCTION.
 4. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS.

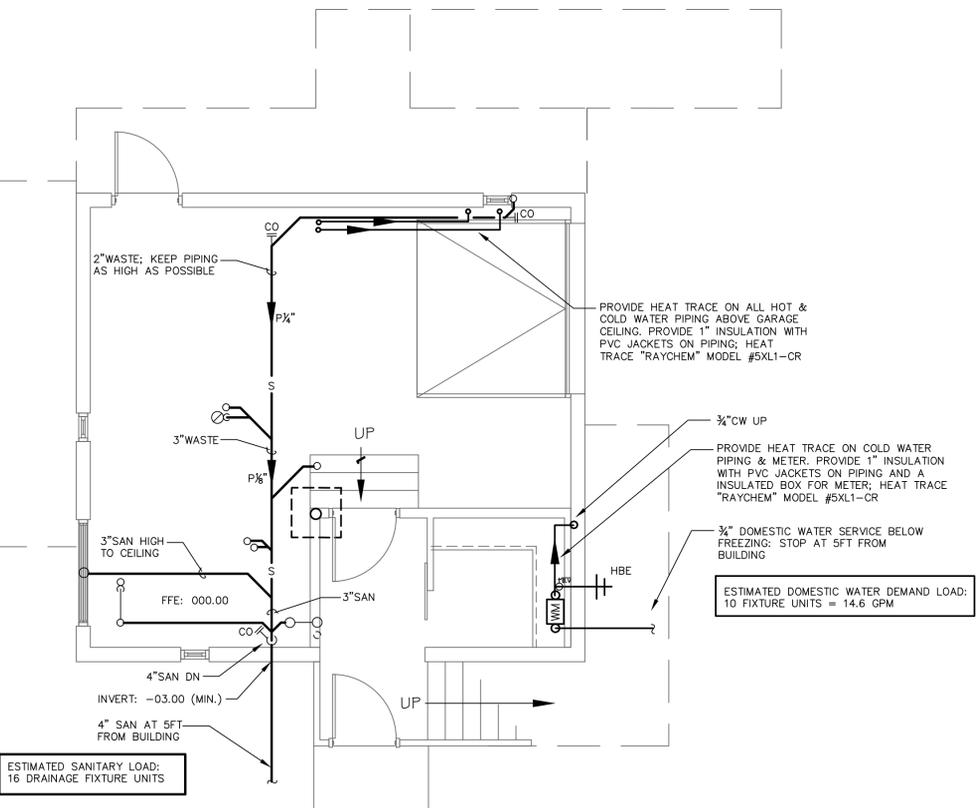
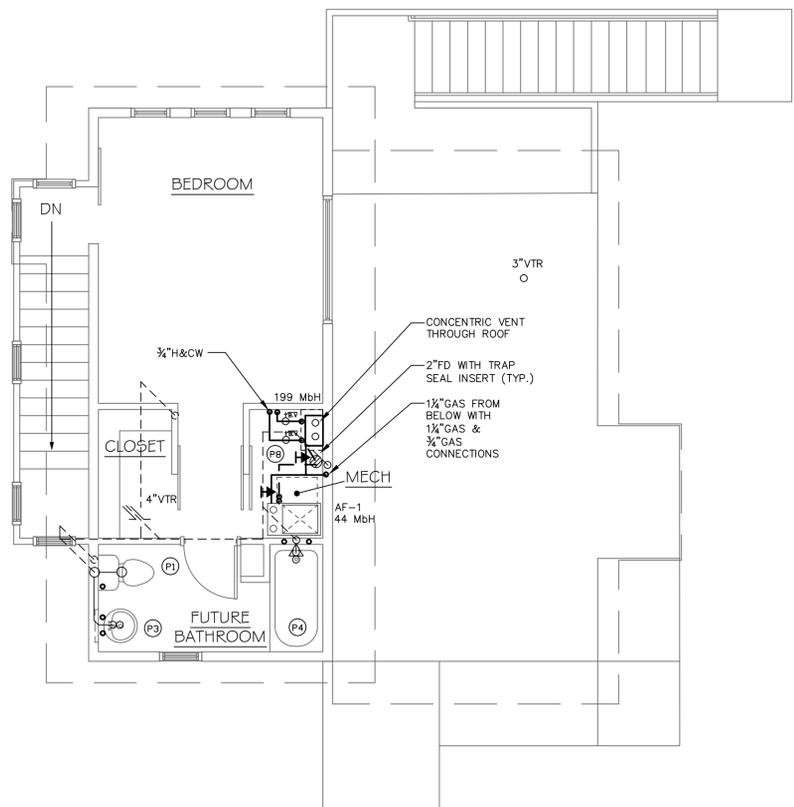
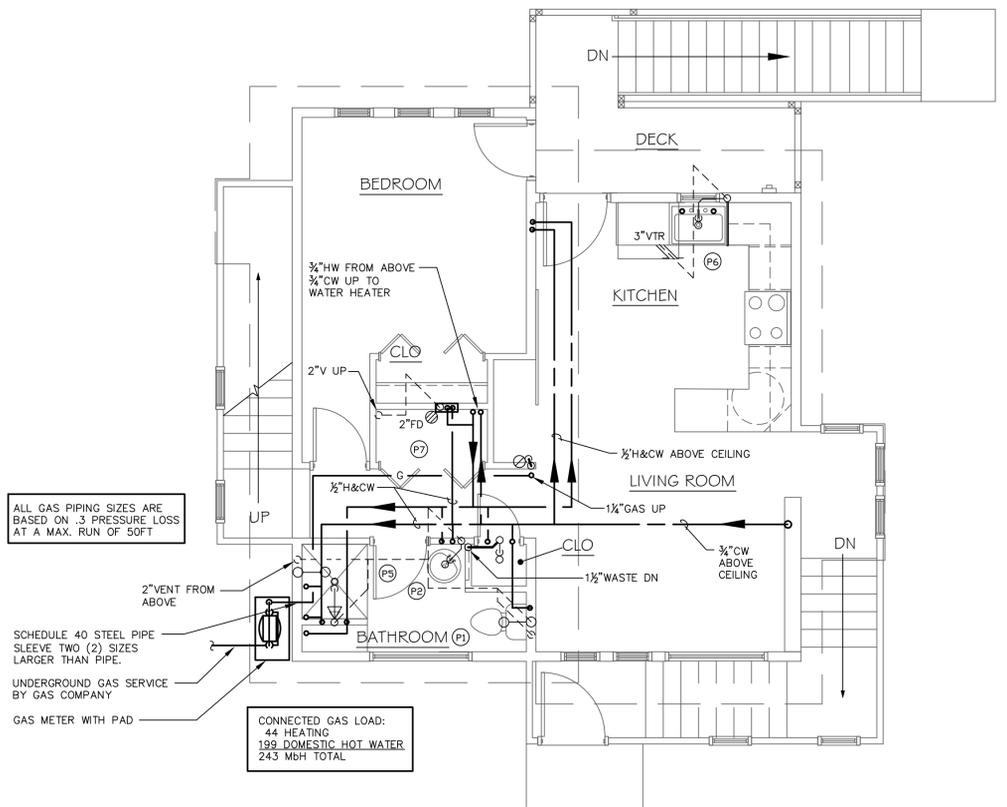
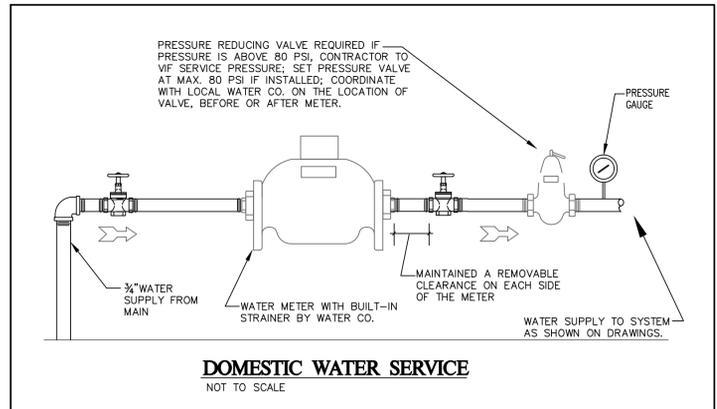
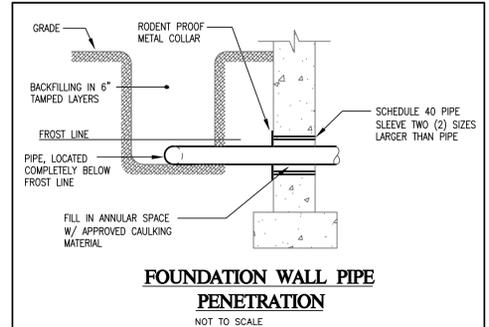
- FIXTURE SCHEDULE**
- (P1) FIXTURE: "Sterling", Windham Toilet Model#402078, Vitreous china, 15" Rim Height, 1.28 Gal. flush, Round bowl, Floor mounted, Floor outlet. Provide Braided supplies, stops & escutcheons.
 Seat: Round bowl, closed front seat with cover.
 - (P2) FIXTURE: American Standard" Cornice Pedestal Lavatory Model #0611.400, Vitreous china, 4" center holes. Provide braided supplies, stops & escutcheons, 1 1/4" 17ga chrome P-trap, Overflow.
 Trim: Faucet with pop-up assembly, 1/2GPM aerator.
 - (P3) FIXTURE: Self-rimming lavatory, Vitreous china, 4" center holes. Provide braided supplies, stops & escutcheons, 1 1/4" 17ga chrome P-trap, Overflow.
 Trim: Faucet with pop-up assembly, 1/2GPM aerator.
 - (P4) FIXTURE: Tub/Shower.
 Trim: "Delta" Shower Trim Model# T14459 Pressure balanced valve with lever handle & tub spout. Hand Shower Head Model# 75482D .
 - (P5) FIXTURE: "Sterling" Ensemble 42" Stall Shower Model #72210100. Vikrell material, 4-piece sectional.
 Trim: "Delta" Shower Trim Model# T14259 Pressure balanced valve with lever handle. Hand Shower Head Model# 75482D .
 - (P6) FIXTURE: "Sterling" Mcallister, Under-mount Kitchen Two Bowl Sink, Model #11409-L, 18 Gauge Stainless Steel, Size: 31-3/4" x 20-3/4" x 8". Provide braided supplies, stops & escutcheons, 1 1/2" 17ga chrome P-trap. Provide (1/2hp) In-Sink-Erator.
 Trim: "Pfister" Cantara Single lever faucet with pull out spray Model #F534-7CRC.
 - (P7) Laundry Box with water control valve for automatic washing machines, water hammer arrestors, 1/2" copper tubing and 2" drain. Provide pan.
 - (P8) Gas Fired Residential Tankless Water Heater. Direct vent, 199,000 Btu input. 5.2 gpm @ 70F rise. Provide pan.
 H.B.E ANSI/ASSE 1019; Non-freeze, self-draining type with chrome plated hose thread spout and integral vacuum breaker. Hydrant shall be Model #25C as manufactured by Woodford or approval equal.

SCHEDULE OF SIZING FOR ROUGHING FOR PLUMBING FIXTURES

WATER CLOSET- TANK TYPE	1/2" CW	3"	2" V
LAVATORY SINK	1/2" H & CW	1-1/2" W	1-1/2" V
TUB / SHOWER	1/2" H & CW	1-1/2" W	1-1/2" V
SHOWER	1/2" H & CW	2" W	1-1/2" V
KITCHEN SINK	1/2" H & CW	1-1/2" W	1-1/2" V
LAUNDRY BOX	1/2" H & CW	2" W	1-1/2" V
HOSE BIB	3/4" CW		

SYMBOL LIST

---	COLD WATER PIPE (CW)
- - - -	HOT WATER PIPE (HW) (110°F)
- - - - -	HOT WATER RECIRCULATION PIPE (HWR) (110°F)
- S -	SANITARY PIPE (BROKEN LINE IS BELOW FLOOR)
- - - - -	VENT PIPE (V)
- CD -	CONDENSATE / DRY PIPE
→	DIRECTION OF FLOW
WCO	WALL CLEANOUT
CV	CHECK VALVE
V.T.R.	VENT THROUGH ROOF
BV	BALL VALVE
BPF	BACKFLOW PREVENTER
H.B.	HOSE BIBB (NON-FREEZE WHEN INDICATED)
F.D.	FLOOR DRAIN
FCO	FLOOR CLEANOUT
(VIF)	VERIFY IN FIELD



PLUMBING SPECIFICATIONS

II. PLUMBING SPECIFICATIONS

1.01 SCOPE

- A. All plumbing equipment, materials and accessories necessary to complete the plumbing system as shown on drawings and described, or as required to put the system in operation, are a part of this Contract.
- B. Work shall include furnishing all labor and materials, equipment, and tools necessary to install a complete plumbing system as shown on Drawings and/or called for in the specifications, including all pipe valves, fittings, fixtures, drains, insulation, miscellaneous specialties and accessories. Contractor, to identify in field all existing sanitary, vent, cold water and hot water in order to connect new plumbing lines.
- C. The plumbing system for the building shall consist of, but not be limited to, the following:
1. A complete gravity sanitary system, vent and drain pipes to be connected into existing sanitary/vent system.
 2. A complete system of hot and cold water piping system to fixtures.
 3. Insulation of piping, as hereinafter described.
 4. A complete gas system to new RTU, including connection into existing piping.

1.02 SOIL, WASTE, VENT AND DRAINAGE LINES

- A. All offsets shall be made at an angle of not more than 45 degrees, and all horizontal runs shall have a pitch of not less than $\frac{1}{8}$ " to the foot ($\frac{1}{4}$ " for piping under 3"). Branch, waste and vent connections shall be run to the house drain or vent stacks as shown on the Drawings. Vertical vent pipes may be connected to a stacks as shown on the Drawings. Vertical vent pipes may be connected to a one main vent riser above fixtures serving other fixtures, the vent line shall be extended 3 ft. above the floor on which the fixtures are located vent line before being connected to the other vent lines, so as to prevent the use of any vent line as a waste.
- B. All changes in pipe size shall be made with reducing fittings or recessed reducers, Y-fittings, and $\frac{1}{8}$ " or $\frac{1}{16}$ " bends or combination Y- and $\frac{1}{8}$ " bends shall be used where possible.
- C. Sanitary long sweep bends and T's shall be used for connections to branch lines for fixtures and on vertical runs on pipe. Long turn fittings shall be used wherever conditions permit. Long sweep fittings shall be used on all horizontal to vertical runs.
- D. Soil, waste, and vent branch piping installed above floor slab shall be plastic pipe type "PVC" Schedule 40 with fittings. Joints to be solvent-cemented. Soil & waste piping installed below floor slab shall be plastic pipe type "PVC" Schedule 40 with fittings. Joints to be solvent-cemented. (Contractor to use plenum rated materials as required.)

1.03 CLEANOUTS

- A. The plumbing contractor shall provide cleanouts, of same size as line served up to 4", at changes in direction of drain lines of 90 degrees or more, and elsewhere as required by the Plumbing Code.
- B. Cleanouts shall have raised heads and shall be located and installed so that they may be readily accessible and removable for cleaning lines.

1.04 WATER PIPING

- A. Plumbing contractor shall supply and install valves, a complete system of hot and cold water piping, plumbing fixtures, etc., all as shown on Plumbing Drawings.
- B. Hot and cold water piping shall be hard drawn copper tubing Type "L". Joints to be 95-5 solder.
- C. Pipe sizes shall be not less than sized indicated on Drawings and specified herein.

1.05 GAS PIPING

- A. Gas piping shall be schedule 40 black steel pipe.
- B. Plumbing contractor shall commence with gas pipe to equipment as shown on plans. Plumbing contractor shall be responsible for any charges for the complete gas service.

1.06 CONNECTIONS TO FIXTURES

- A. All branches from mains shall be equipped with stop and waste valves.
- B. Connections shall be made from the top of the mains, unless otherwise specified. Branches shall drain toward the mains. The piping installation shall be so arranged that the entire system can be drained through accessible valves at low points. The plumbing contractor shall provide the necessary valves.

1.07 UNIONS

- A. Where union connections are installed on pipe 1" in diameter and smaller, they shall be of brass composition "B".
- B. All piping shall be provided at intervals with unions to permit alterations and repairs.

1.08 VALVES

- A. The entire plumbing system shall be provided with valves, so located that they may be operated, repaired and/or replaced with a minimum of effort.
- B. The following list of valves is intended only as a guide to the plumbing contractor:
1. Ball Valves, $\frac{1}{2}$ " - 4" - WATTS B6000 Series.
 2. Gate Valves, $\frac{1}{4}$ " - 4" - WATTS GV Series.
 3. Globe Valves, $\frac{1}{4}$ " - 2" - WATTS GLV Series.
 4. Stop and Waste Valves, 1" and smaller - WATTS Series SWS.
- C. Valves shall be Crane, Jenkins, Red & White or Nibco, located as shown on Drawings, and on all branch mains.

1.09 PIPE SUPPORTS

- A. Piping shall be supported from the building structure by means of approved hangers and supports. Pipeline shall be supported to maintain required grading and pitching of lines to prevent vibration and to secure piping in place, and shall be so arranged as to provide for expansion and contraction.
- B. The spacing of hangers shall not be greater than 4 ft. center to center for pipe smaller than 1".
- C. Vertical lines shall be adequately supported at their bases by a suitable hanger in place with the horizontal line near the riser.
- D. Hangers for copper tubing shall be copper plated, equal to Grinnell No. 97 CP. All other hangers shall be adjustable clevis hangers. Hanger rods shall have machine threads.

1.10 PIPE SLEEVES AND RECESSES

- A. The plumbing contractor shall furnish and install sleeves in connection with all piping passing through masonry. Plumbing contractor shall be responsible for location, setting and anchoring of sleeves in a substantial manner so that they will not be displaced. Plumbing pipes run in sleeves shall be made Fireproof by Contractor. Fire protection system shall meet the UL listing for existing wall or floor construction.
- B. Where recesses are required for piping, the plumbing contractor shall instruct the various trades as to sizes and locations required in advance of construction.

1.11 ESCUTCHEONS

- A. Where un-insulated, exposed pipes pass through floors, finished walls, or finished ceilings, they shall be fitted with neat, heavy spun or stamped escutcheons, firmly secured to pipes. Escutcheons shall be of sufficient outside diameter to amply cover the sleeve openings for pipes. Escutcheons shall be nonferrous metal, chromium plated.

1.12 INSULATION OF PIPING

- A. All insulation and covering on pipe and tubing to meet the IBC2003 Section 719.7 for flame spread index.
- B. Hot Water Lines: All hot water pipes shall be insulated with closed cell elastomeric insulation, $\frac{3}{4}$ " thick, as manufactured by Armstrong Corporation, Johns-Manville, or approved thermal equal.
- C. Cold Water Lines: All cold water pipes, including horizontal and vertical runs, shall be insulated with closed cell elastomeric insulation, $\frac{1}{2}$ " thick, with factory applied vapor barrier jacket, as manufactured by Armstrong Corporation, Johns-Manville, or approved thermal equal.

1.13 PLUMBING FIXTURES - GENERAL REQUIREMENTS

- A. Plumbing contractor shall furnish and install all fixtures in accordance with the Drawings and with the schedule.
- B. Where escutcheons are not furnished with plumbing fixtures, the plumbing contractor shall supply them.
- C. Each fixture shall be separately trapped, using the type and size of trap required by the Plumbing Code.
- D. Unless otherwise specified, faucets and all exposed fittings shall be chromium plated.
- E. All low voltage wire for fixtures and/or faucets shall be provided and installed by contractor.
- F. The Owner and the Architect shall be the final judges as to whether fixtures fulfill the requirements of the specifications and as to whether they are of a suitable quality.

1.14 INSTALLATION

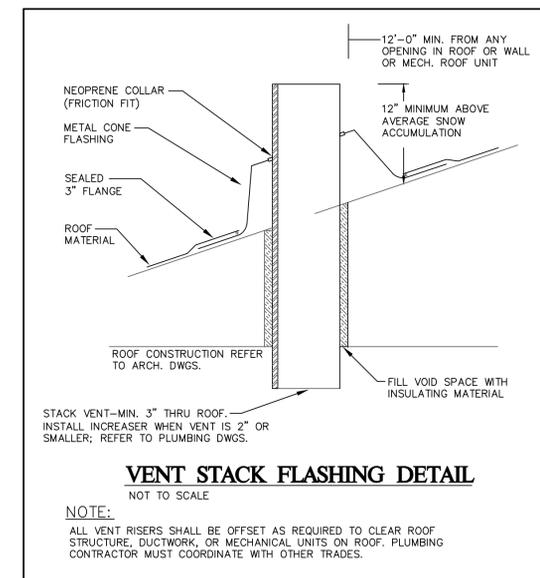
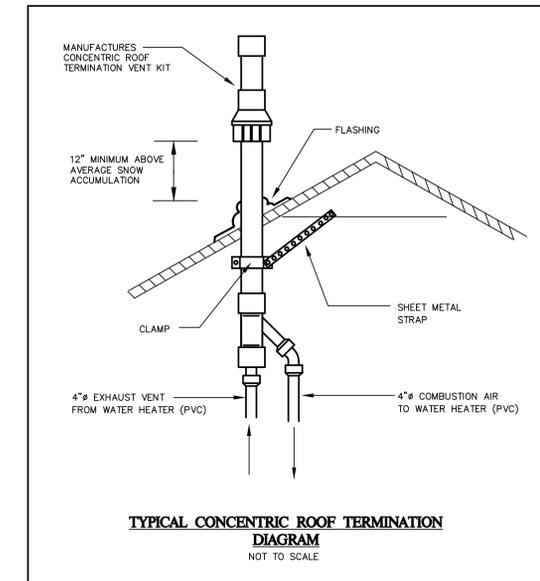
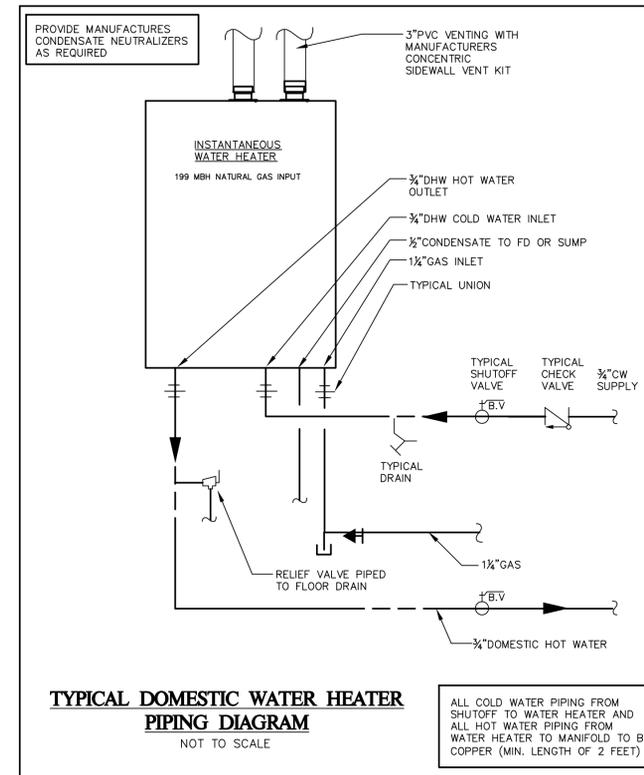
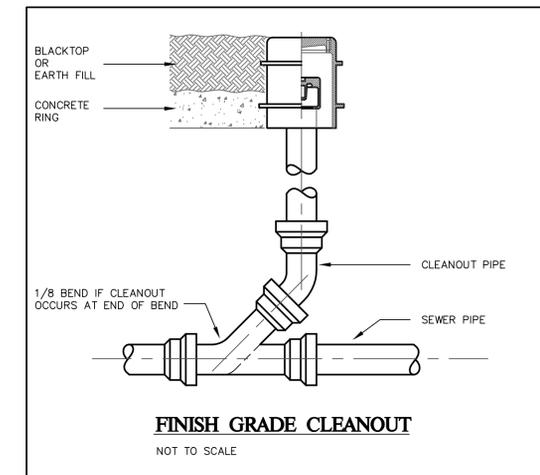
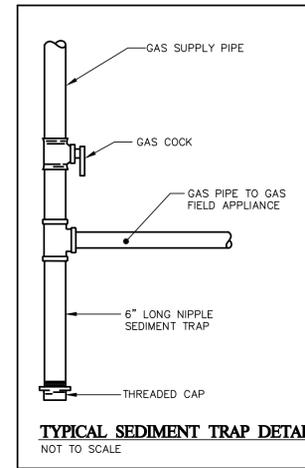
- A. Plumbing contractor shall furnish, set, seal and connect all fixtures and accessories shown and specified, including all necessary supports, connections, fittings and parts required to fully complete the plumbing installation.

1.15 ACCESS DOORS

- A. Where access doors in walls or ceilings are required for valves, traps, etc., they shall be of flush type with anchor, frame and hinged panel as manufactured by Milcor or Zurn. Access doors shall be furnished by plumbing contractor to the General Contractor who will install them.

1.16 TESTING AND START-UP

- A. Test all drainage piping, including vents to a minimum of 10 feet head for 2 hours without leakage or any drop in water level.
- B. Test all hot and cold water piping hydraulically to 150 psig for 24 hours without leaks or loss of pressure.
- C. Flush all piping to remove all dirt and debris before starting up any system.
- D. Check the water flow at faucet. Run full flow tests for each system and correct any noise, vibration, or water hammer.
- E. Perform disinfection of domestic water piping system, as required by Code.
- F. Test the final gas distribution entirely as per Code.



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APPLICANT #2409

MILLFORD, CT

83 COOPER AVE.

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RJM

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