

# QUISENBERRY ARCARI

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## ARCHITECTS, LLC

318 Main Street, Farmington, CT 06032    www.qa-architects.com    t (860) 677 - 4594    f (860) 677 - 8534

REHABILITATION / RECONSTRUCTION WORK FOR:

# ROBIN MONGILLO

APPLICANT #2206

ISSUE DATE: April 10, 2015

70 SHELL AVENUE

MILFORD, CT

### LIST OF DRAWINGS

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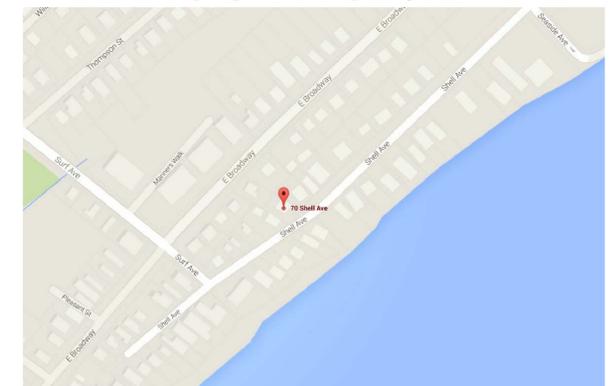
COMMUNITY DEVELOPMENT BLOCK GRANT  
DISASTER RECOVERY PROGRAM (CDBG-DR)

OWNER OCCUPIED REHABILITATION  
& REBUILDING PROGRAM (OORR)

SPONSORED IN CONJUNCTION WITH FUNDING FROM  
THE CONNECTICUT DEPARTMENT OF HOUSING



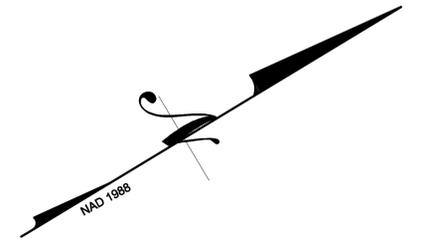
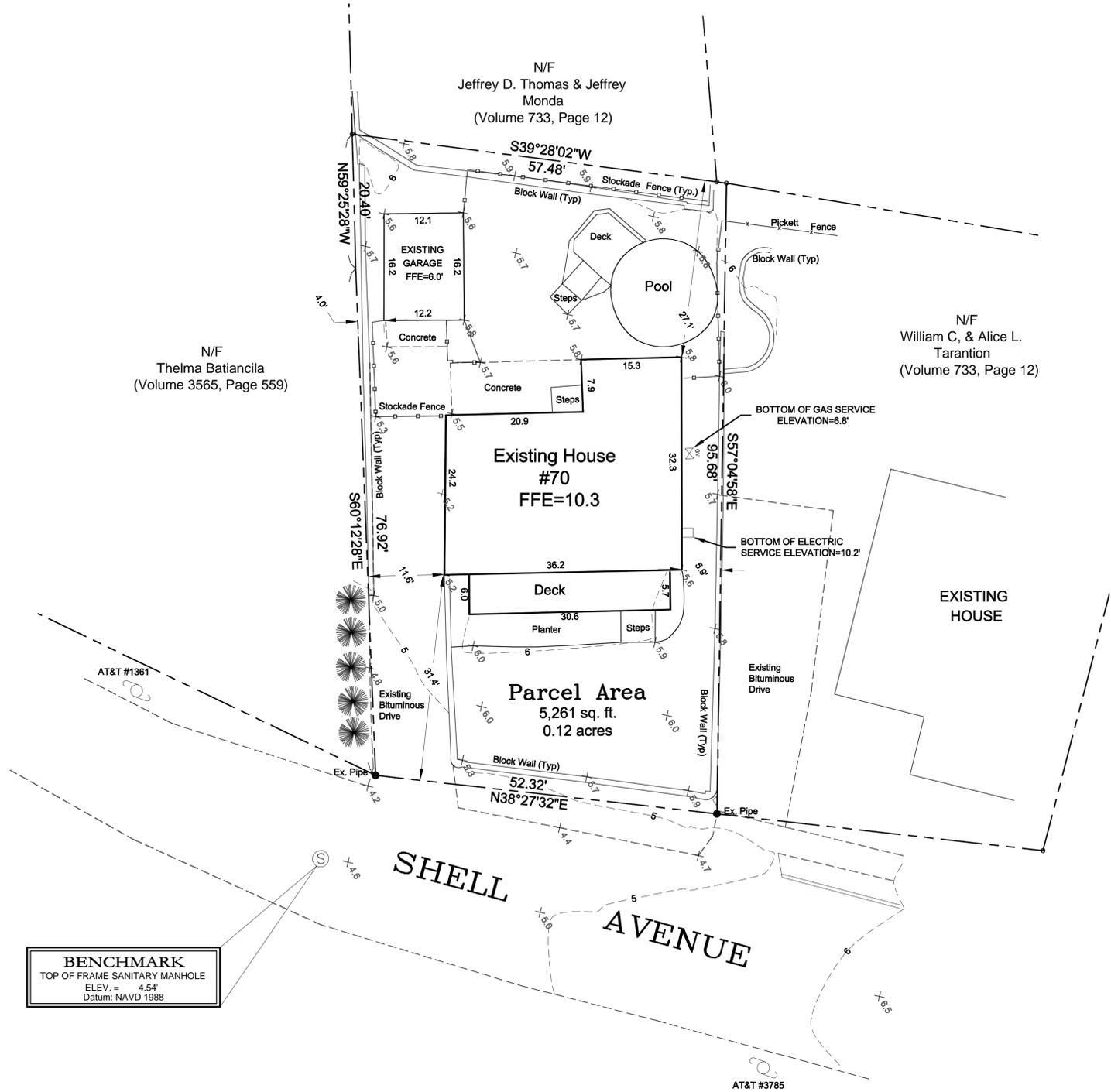
### LOCATION MAP



70 Shell Avenue, Milford, CT (QA#1346-38)

**LEGEND**

-  = Existing utility pole
-  = Existing light pole
-  = Existing fire hydrant
-  = Existing water valve
-  = Existing gas valve
-  = Existing underground pipe
-  = Existing edge of pavement
-  = Existing bituminous concrete lip curb
-  = Existing well
-  = Existing catch basin
-  = Existing drainage manhole
-  = Existing sanitary manhole
-  = Existing contour
-  = Existing spot elevation
-  = Existing iron pin
-  = Existing drill hole
-  = Existing monument



**SURVEY NOTES:**

1. This map has been prepared pursuant to the Regulation of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996.
2. Type of survey performed: Existing Conditions
3. Boundary determination category: Dependent Resurvey
4. Class of accuracy:  
Horizontal: A-2  
Vertical: T-2
5. The intent of this map is to depict or note the position of boundaries with respect to: (A) locations of all boundary monumentation found or set; (B) Apparent improvements and features, including as a minimum: dwellings, barns, garages, sheds, driveways, roadways, surface utilities, visible bodies of water and swimming pools; (C) record easements and visible means of ingress and egress; (D) record and apparent means of ingress and egress; (E) lines of occupation, including as a minimum: fences, walls, hedges and yards; (F) deed restrictions pertaining to the location of buildings or other apparent improvements; (G) unresolved conflicts with record deed descriptions and maps; (H) all apparent boundary encroachments; and (I) monumentation required to be set at all corners created by a deflection angle of not less than 70 degrees between two consecutive courses at an intervals not to exceed 600 feet (180 meters) along the boundaries between said corners, except where natural or man-made monumentation defines or occupies the line.
6. Map References:  
a) Map of Property owned by Emma & R. & Walter S. Goldman, and Thomas A. Viscount, Milford, Ct., Scale: 1"=20', Dated: Aug. 4, 1961, Rev. April 8, 1964.
7. Per agreement with property owner no boundary corners were set by this survey unless noted hereon. All monumentation found is depicted or noted hereon.
8. Zone: R5
9. Total area: 5,261 S.F. / 0.12 Ac.
10. Robin Mongillo
11. Town of Milford Assessors Map #27 Lot #443 4/A
12. Filed in Volume 2744, Page 128 of the Town Clerk's office.
13. Contours are established from field topography.
14. Vertical Datum is NAVD 1988 and based on the CGS Mon LX 0935.
15. There are no wetlands located on the property but are within 250' of the boundaries. (Waters of Long Island Sound lie approximately 220' to the south of the property.)
16. The subject property is situated in Zone "AE", (Elevation 13.0') which is a "Special Flood Hazard Area" subject to inundation by 1% annual-chance flood event determined by FEMA. The 500 Year Flood Event elevation is 16.25' (Firm Map 090009 Panel 533 Suffix J / Effective date of July 8, 2013) Subject Property is in Coastal Area Management (CAM).
17. This survey does not include the location of any underground improvements or encroachments, subsurface utility lines or buried debris. Nor does it necessarily reflect the existence of any waste dumps or hazardous materials. The underground items depicted or noted are approximate and are not guaranteed. Notify "CALL BEFORE YOU DIG" 1-800-922-4455 prior to any excavation operations.

**BENCHMARK**  
TOP OF FRAME SANITARY MANHOLE  
ELEV. = 4.54'  
Datum: NAVD 1988

DATE	REVISION
To the best of my knowledge and belief, this map is substantially correct as noted hereon.	
<i>Stephen M. Giudice</i>	
Stephen M. Giudice, L.S.	#70145
Reg. No.	
NOT VALID UNLESS EMBOSSED SEAL IS AFFIXED HERETO	

EXISTING CONDITIONS SURVEY  
PREPARED FOR  
**QUISENBERRY ARCARI ARCHITECTS, LLC**  
70 SHELL AVENUE  
MILFORD, CONNECTICUT  
SEPTEMBER 28, 2014  
SCALE: 1"=10'

F.B. #: 477 PROJECT #: 1220

**cole**  
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engineering. surveying. planning.

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ABBREVIATIONS			
A.F.F.	Above Finish Floor	HGT.	Height
A.C.	Acoustic, Acoustical	H.M.	Hollow Metal
A.C.T.	Acoustical Tile	HORIZ.	Horizontal
AC	Air Conditioning	H.B.	Hose Bbb
A.H.U.	Air Handling Unit	IN.	Inch
ALT.	Alternate	INCL.	Included
ALUM.	Aluminum	INFO.	Information
ALF.	Aluminum Frame	I.D.	Inside Diameter
ANCH.	Anchor, Anchorage	INSUL.	Insulation
AB.	Anchor Bolt	INT.	Interior
L	Angle	JT.	Joint
ANOD.	Anodized	K.P.	Kick Plate
APFR.	Approved	LAB	Laboratory
ARCH.	Architect, Architectural	LAV.	Lavatory
ASB.	Asbestos	LTG.	Lighting
A.P.B.O.	As Provided By Owner	MACH.	Machine
A.S.B.O.	As Selected By Owner	MAINT.	Maintenance
ASPH.	Asphalt	MFRG.	Manufacturer
ASSY.	Assembly	M.BD.	Marker Board
ASST.	Assistant	MA5.	Masonry
AUTO.	Automatic	M.O.	Masonry Opening
BM	Beam	MAT.	Material
BRG.	Bearing	MAX.	Maximum
BEV.	Bevel, Beveled	MECH.	Mechanical
BIT.	Bituminous	MEZZ.	Mezzanine
BLK.	Block	MIN.	Minimum
BLKG.	Blocking	MISC.	Miscellaneous
BD.	Board	N	North
BOT.	Bottom	N.I.C.	Not In Contract
B.O.	Bottom Of	N.T.S.	Not To Scale
B.E.J.	Brick Expansion Joint	OFF.	Office
BLDG.	Building	O.C.	On Center
B.U.R.	Built Up Roofing	O.H.	Overhead
CAB.	Cabinet	O.D.	Outside Diameter
C.U.H.	Cabinet Unit Heater	PTD.	Painted
CAP.	Capacity	PR.	Pair
CASE	Casement	P.T.D.	Paper Towel Dispenser
CLG.	Ceiling	PASS.	Passage
CLGHT.	Ceiling Height	PERP.	Perpendicular
CEM.	Cement	PLAS.	Plaster
CTR.	Center	PLAM.	Plastic Laminate
CL	Centerline	PL	Plate
C.T.	Ceramic Tile	PLUMB.	Plumbing
C.BD.	Chalk Board	PLYWD.	Plywood
CLO.	Closet	PVC.	Polyvinylchloride
COL.	Column	P.E.J.	Precast Expansion Joint
CONC.	Concrete	PREFAB.	Prefabricated
CONF.	Conference	QTY.	Quantity
CJ	Control Joint	Q.T.	Quarry Tile
CONT.	Continuous	RAD.	Radius
CONTR.	Contractor	RWC	Rain Water Conductor
CORR.	Corridor	RECV.	Receiving
CRS.	Course, Courses	REFR.	Refrigerator
DEG.	Degree	REINF.	Reinforce
DEMO.	Demolition	REM	Remove
DEPT.	Department	REQD	Required
DET.	Detail	REV.	Revised, Revision
DIA.	Diameter	R.	Riser
DIM.	Dimension	R.D.	Roof Drain
DIST.	Distance	RM.	Room
DR.	Door	S.N.D.	Sanitary Napkin Dispenser
DBL.	Double	S.N.R.	Sanitary Napkin Receptacle
D.H.	Double Hung	SCHED.	Schedule
DN	Down	SC.	Scupper
D.S.	Downspout	SECT.	Section
DWG.	Drawing	S.J.	Seismic Joint
D.F.	Drinking Fountain	SHT.	Sheet
EA.	Each	SIM.	Similar
ELEC.	Electric, Electrical	S.D.	Soap Dispenser
EWC.	Electric Water Cooler	S.T.D.	Sound Transmission Class
EL	Elevation	S.T.C.	Sound Transmission Coefficient
ELEV.	Elevator	SPEC.	Specifications
EMERG.	Emergency	SQ.	Square
EQ.	Equal	S.F.	Square Feet
EQUIP.	Equipment	S.S.	Stainless Steel
EXIST.	Existing	STD.	Standard
E.T.R.	Existing To Remain	STL.	Steel
EXP.	Expansion	STOR.	Storage
E.J.	Expansion Joint	STRUCT.	Structure, Structural
EXT.	Exterior	S. STL.	Structural Steel
E.I.F.S.	Exterior Insulation Finish System	SUSP.	Suspend, Suspension
FT.	Feet, Foot	S.A.T.C.	Susp. Acoustic Tile Ceiling
F.R.G.P.	Fiber Reinforced Gypsum Panel	T.BD.	Tack Board
FIN.	Finish, Finished	THRU	Through
F.E.	Fire Extinguisher	T.P.D.	Toilet Paper Dispenser
F.R.	Fire Retardant	T.M.E.	To Match Existing
FPRFG.	Fireproofing	T&G	Tongue and Groove
FIXT.	Fixture	T.O.	Top Of
FLASH	Flashing	T.	Tread
FLR.	Floor	TYP.	Typical
F.D.	Floor Drain	U.L.	Underwriter's Laboratory
FLR.FIN.	Floor Finish	U.H.	Unit Heater
FTG.	Footing	U.V.	Unit Ventilator
FDN	Foundation	U.O.N.	Unless Otherwise Noted
FURN.	Furnish, Furnishings, Furniture	VEST.	Vestibule
FURR.	Furred, Furring	VCT.	Vinyl Composition Tile
GA.	Gauge	W.P.	Waterproofing
GALV.	Galvanized	W.W.F.	Welded Wire Fabric
GYP. BD.	Gypsum Board	W.BD.	White Board
G.C.	General Contractor	W	With
H.C.	Handicapped	WD.	Wood

FINISHES
<p><b>GYPHUM BOARD</b></p> <ol style="list-style-type: none"> <li>PROVIDE AND INSTALL GYPSUM WALL BOARD IN ACCORDANCE WITH AMERICAN STANDARD SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM WALLBOARD, AS APPROVED BY THE AMERICAN STANDARDS ASSOCIATION, LATEST EDITION; APPLICABLE PARTS THEREOF ARE HEREBY MADE A PART OF THIS SPECIFICATION EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE CALLED FOR IN THE SPECIFICATION, IN LOCAL CODES, OR BY THE MANUFACTURER OF THE GYPSUM WALLBOARD, WHOSE REQUIREMENTS SHALL BE FOLLOWED.</li> <li>PROVIDE AND INSTALL MOISTURE-RESISTANT GYPSUM WALLBOARD WHERE REQUIRED. PROVIDE TYPE X GYPSUM BOARD AS CALLED FOR ON THE DRAWINGS.</li> <li>PROVIDE 5/8" TYPE X GYPSUM BOARD SHALL BE PROVIDED AT GARAGE CEILING WHICH HAS LIVING SPACE ABOVE.</li> </ol> <p><b>PAINT</b></p> <ol style="list-style-type: none"> <li>APPLICATION OF PAINT OR OTHER COATING SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. READY-MIXED PAINT SHALL NOT BE THINNED, EXCEPT AS PERMITTED IN THE APPLICATION INSTRUCTIONS.</li> </ol>

THERMAL & MOISTURE PROTECTION
<ol style="list-style-type: none"> <li>PROVIDE AND INSTALL BUILDING THERMAL INSULATION IN ACCORDANCE WITH THE FOLLOWINGS: <ul style="list-style-type: none"> <li>A. EXTERIOR WALLS: R-19 MINIMUM</li> <li>B. SLOPED CEILINGS: R-30 MINIMUM</li> <li>C. FLAT CEILINGS: R-38 MINIMUM</li> <li>D. CEILINGS OVER UNCONDITIONED SPACE: R-21 MINIMUM</li> <li>E. CEILINGS OVER BASEMENT: R-21 MINIMUM</li> </ul> </li> <li>INSTALL VENTING IN SLOPED CEILING AREAS TO PERMIT AIRFLOW ALONG THE COOL SIDE OF THE INSULATION FROM THE EAVE TO RIDGE.</li> <li>DO NOT LEAVE KRAFT-PAPER FACED INSULATION EXPOSED. INSTALL TYPE FSK FOIL TO PROTECT EXPOSED INSULATION.</li> <li>INSTALL EITHER INTERIOR AND/OR EXTERIOR FOUNDATION INSULATION AS REQUIRED BY LOCAL BUILDING CODES.</li> </ol>

ELECTRICAL NOTES
<ol style="list-style-type: none"> <li>ELECTRICAL DRAWINGS ARE INTENDED TO BE USED FOR SCHEMATIC DESIGN ONLY. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF FINAL ELECTRICAL DESIGN.</li> <li>FINAL LOCATIONS OF ALL ELECTRICAL DEVICES AND THEIR INTENDED OPERATION IS TO BE COORDINATED WITH THE OWNER.</li> <li>ELECTRICAL CONTRACTOR SHALL PURCHASE AND INSTALL ALL NEW COMPONENTS AS REQUIRED TO PROPERLY SERVICE THE SPACE(S) AFFECTED BY THIS CONSTRUCTION PROJECT. IF THE MODIFICATION OF EXISTING ELECTRICAL SYSTEMS IS NECESSARY, SUCH MODIFICATIONS SHALL NOT ADVERSELY AFFECT THE OPERATION OF THESE SYSTEMS.</li> <li>ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.</li> <li>COORDINATE ELECTRICAL WORK WITH THE WORK OF OTHER TRADES. DO NOT ALTER THE WORK OF PREVIOUS TRADES WITHOUT PRIOR APPROVAL.</li> <li>ELECTRICAL CONTRACTOR MUST PROVIDE AND INSTALL ALL DUCT WORK ASSOCIATED WITH EXHAUST FANS.</li> <li>PERFORM ALL NEW ELECTRICAL WORK IN ACCORDANCE WITH LOCAL CODES AND ACCEPTED STANDARDS OF PRACTICE.</li> </ol>

ELECTRICAL MOUNTING HEIGHTS
<ol style="list-style-type: none"> <li>ALL DIMENSIONS ARE TO THE CENTER OF THE DEVICE UNLESS OTHERWISE NOTED. SEE ELECTRICAL DRAWINGS FOR TYPES AND LOCATIONS.</li> <li>RECEPTACLES: 18" A.F.F. (AT LOCATIONS ABOVE CASEWORK, MOUNT BOTTOM OF RECEPTACLE AT 2" ABOVE BACKSPASH, AT LOCATIONS BELOW CASEWORK, MOUNT AT 24" A.F.F.</li> <li>EXTERIOR RECEPTACLES: 24" A.F.F.G. (20" A.F.F.)</li> <li>SWITCHES: 48" A.F.F.</li> <li>BOILER EMERGENCY SWITCHES: 60" A.F.F.</li> <li>DATA / PHONE OUTLETS: 18" A.F.F.</li> <li>TV OUTLETS: 18" A.F.F. OR 18" BELOW FINISHED CEILING</li> <li>WALL PHONE: 48" A.F.F. TO CENTER OF EARPIECE</li> <li>SECURITY KEYPAD: 48" A.F.F.</li> </ol>

CONCRETE
<ol style="list-style-type: none"> <li>ALL CONCRETE WORK SHALL BE IN COMPLIANCE WITH THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE' (ACI 318) AND 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING' (ACI 301).</li> <li>CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT THE AGE OF 28 DAYS: 3000PSI, EXCEPT 4000PSI FOR EXTERIOR WORK.</li> <li>CONCRETE SHALL HAVE A SLUMP NOT EXCEEDING 5", EXCEPT FOR 4" SLABS.</li> <li>CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR THE CURING OF CONCRETE AS DIRECTED BY ACI 301. USE OF CALCIUM CHLORIDE SHALL NOT BE PERMITTED.</li> <li>REINFORCING BARS SHALL BE DEFORMED BILLET STEEL BARS AND CONFORM TO ASTM A-615-GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM-A-185.</li> <li>REINFORCING BARS MARKED 'CONT.' SHALL BE LAPPED 32 BAR DIAMETERS AT SPLICES AND CORNERS, HOOKED AT DISCONTINUOUS ENDS. WELDED WIRE FABRIC SHALL BE LAPPED 6" AT END SPLICES.</li> <li>CONTRACTOR SHALL INSTALL ALL ANCHORS, ANCHOR BOLTS, LEVELING PLATES, AND ALL INSERTS TO BE SET IN CONCRETE AS REQUIRED FOR THE WORK OF ALL TRADES.</li> <li>ALUMINUM OBJECTS SHALL NOT BE EMBEDDED OR IN CONTACT WITH CONCRETE.</li> <li>REINFORCED CONCRETE FLOOR SLABS SHALL BE PLACED ON A MINIMUM OF 6" OF CRUSHED 3/4" STONE ON STRUCTURAL FILL PLACED IN 8" LAYERS AND COMPACTED TO 95% OF MODIFIED OPTIMUM DENSITY ON FIRM, INORGANIC, VIRGIN SOIL. NOT LESS THAN ONE LAYER OF STRUCTURAL FILL SHALL BE USED.</li> </ol>

CONCRETE MASONRY
<ol style="list-style-type: none"> <li>ALL MASONRY SHALL CONFORM TO AND BE ERECTED IN ACCORDANCE WITH ACI 530 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND ACI 530.1 SPECIFICATION FOR MASONRY STRUCTURES.</li> <li>ALL MASONRY WALLS ARE TO BE CONSTRUCTED OF CONCRETE MASONRY WITH COMPRESSIVE STRENGTH FM = 1500 P.S.I. THE CONTRACTOR IS RESPONSIBLE FOR ASSURING MASONRY STRENGTH AS SPECIFIED.</li> <li>TYPE "M" OR "S" MORTAR SHALL BE USED IN ALL MASONRY.</li> <li>CONTINUOUS HORIZONTAL JOINT REINFORCING SHALL BE INSTALLED IN ALTERNATE COURSES OF ALL MASONRY. EXTERIOR MASONRY VENEER SHALL BE TIED TO INTERIOR MASONRY BLOCKWORK IN ACCORDANCE WITH DRAWING NOTATIONS.</li> <li>REINFORCING STEEL FOR MASONRY SHALL BE GRADE 60. ALL LAP SPLICES SHALL BE A MINIMUM OF 48 BAR DIAMETERS (I.E. #4 BAR = 24").</li> <li>ALL MASONRY UNIT CORES CONTAINING REINFORCING BARS SHALL BE FILLED WITH 2000 P.S.I. GROUT. GROUT SHALL BE INSTALLED IN USING LOW LIFT GROUT METHOD (5'-0" MAXIMUM LIFTS).</li> </ol>

METALS
<ol style="list-style-type: none"> <li>STRUCTURAL STEEL COMPONENTS SHALL CONFORM TO THE CURRENT SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.</li> <li>UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATIONS A-36. STEEL FOR PIPE COLUMNS SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATIONS A-501.</li> <li>ALL STEEL-TO-STEEL CONNECTIONS SHALL BE FABRICATED IN ACCORDANCE WITH INDUSTRY STANDARD PRACTICES FOR BOLTED OR WELDED CONNECTIONS.</li> <li>ALL STEEL SHALL BE PAINTED WITH ONE SHOP COAT OF RED-OXIDE PRIMER. GALVANIZED MEMBERS SHALL BE UTILIZED WHERE SHOWN ON THE DRAWINGS.</li> </ol>

WOOD
<ol style="list-style-type: none"> <li>ALL STRUCTURAL WOOD SHALL BE IN ACCORDANCE WITH THE 'NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION' AND THE 'MANUAL OF HOUSE FRAMING' AS PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA), INCLUDING PROVISIONS FOR NAILING, FIRE STOPPING, ANCHORAGE, FRAMING AND BRACING.</li> <li>UNLESS NOTED OTHERWISE ON THE DRAWINGS, STRUCTURAL LUMBER SHALL BE AS FOLLOWS: <ul style="list-style-type: none"> <li>A. INTERIOR EXPOSURE: STRUCTURAL WOOD PROTECTED FROM MOISTURE SHALL BE HEM-FIR #2 OR BETTER.</li> <li>B. EXTERIOR EXPOSURE: STRUCTURAL WOOD EXPOSED TO MOISTURE, THE WEATHER, IN CONTACT WITH CONCRETE, LOCATED WITHIN 8 INCHES OF SOIL, OR LESS THAN 1 1/2 INCHES FROM THE FLOOR OF A CRAWL SPACE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR BETTER, WITH RETENTION MEETING OR EXCEEDING THE REQUIREMENTS OF THE BUILDING CODE.</li> <li>C. PLYWOOD: PLYWOOD SHALL BE IN ACCORDANCE WITH THE AMERICAN PLYWOOD ASSOCIATION (APA) SPECIFICATIONS (Y 510). PLYWOOD FLOOR DECKING SHALL BE CONTINUOUS OVER TWO OR MORE SPANS WITH THE FACE-GRAIN RUNNING PERPENDICULAR TO SUPPORT JOISTS. <ul style="list-style-type: none"> <li>I. ROOF SHEATHING: C-D/EXT-APA, 1/2" THICK</li> <li>II. WALL SHEATHING: C-D/EXT-APA, 1/2" THICK</li> <li>III. SUBFLOORING: C-D/EXT-APA, 3/4" THICK</li> </ul> </li> </ul> </li> <li>NAILING SCHEDULE SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE'S RECOMMENDED FASTENING SCHEDULE. NAIL PLYWOOD SHEATHING AND SUBFLOORING AND C AT EDGES AND 1/2" O.C. ALONG INTERMEDIATE SUPPORTS, LEAVING SPACES BETWEEN PANELS AS RECOMMENDED BY THE APA. UTILIZE RING-SHANK OR SCREW TYPE NAILS FOR PLYWOOD SUBFLOORING AND APPLY APPROPRIATE CONSTRUCTION ADHESIVE TO ADEQUATELY SECURE PLYWOOD TO FLOOR JOISTS.</li> <li>INSTALL JOIST HANGERS, COLUMN CAPS AND BASES WHERE REQUIRED. METAL FABRICATIONS SHALL BE OF APPROPRIATE SIZE AND TYPE FOR THE MEMBERS AND SUPPORT CONDITIONS. WHERE FLANGE SUPPORT JOIST HANGERS ARE USED IN CONJUNCTION WITH STEEL BEAMS, CARE SHALL BE TAKEN TO INSTALL THE HANGERS CLEAR OF CONTACT WITH THE STEEL BEAM BY INSTALLING 2X WOOD TOP PLATES.</li> <li>NOTCHING SHALL NOT EXCEED 1/8TH OF THE DEPTH OF A JOIST OR RAFTER AND SHALL OCCUR ONLY IN THE OUTER QUARTER OF THE SPAN. NOTCHES SHALL NOT BE PERMITTED IN THE MIDDLE HALF OF THE SPAN. NOTCH LENGTH SHALL NOT EXCEED 1/3RD OF THE JOIST DEPTH. NOTCHES ARE NOT PERMITTED IN ENGINEERED LUMBER PRODUCTS.</li> <li>HOLES IN JOISTS OR RAFTERS SHALL OCCUR IN THE MIDDLE 1/3RD OF THE SPAN. THE HOLE DIAMETER SHALL NOT EXCEED 1/3RD OF THE JOIST DEPTH. HOLES IN ENGINEERED LUMBER PRODUCTS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.</li> <li>ENGINEERED LUMBER INDICATED ON THE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. JOISTS LABELED TJI ARE COMPOSITE I-JOISTS AS MANUFACTURED BY TRUS-JOIST. MEMBERS LABELED LVL ARE LAMINATED VENEER LUMBER (1.98 MICROLAM BY TRUS-JOIST), THE SUBSTITUTION OF OTHER PRODUCTS ARE ONLY PERMITTED WITH BACKUP ENGINEERING PLANS AND CALCULATIONS.</li> </ol>

FOUNDATION
<ol style="list-style-type: none"> <li>ALL FOOTINGS SHALL REST ON UNDISTURBED SOIL WITH A MINIMUM BEARING CAPACITY OF 4000 PSF. BACKFILL OVER-EXCAVATION WITH CONCRETE, NOT ADDITIONAL SOIL.</li> <li>NO BACKFILLING OF FOUNDATION WALLS SHALL BE UNDERTAKEN UNTIL SUITABLE WALL BRACING (TEMPORARY OR PERMANENT) HAS BEEN INSTALLED.</li> <li>DO NOT POUR FOOTINGS ON FROZEN SOIL. REMOVE ALL FROST PRIOR TO POURING CONCRETE.</li> <li>BOTTOM OF FOOTINGS SHALL BE INSTALLED BELOW GRADE TO PROVIDE PROTECTION FROM FROST PENETRATION. CONSULT WITH LOCAL BUILDING OFFICIALS REGARDING REQUIRED DEPTH IN THE LOCAL WHERE THE FOUNDATION IS CONSTRUCTED.</li> <li>PROVIDE 2-#5 REINFORCING BARS CONTINUOUS IN THE TOP AND BOTTOM OF WALLS, AND IN CONTINUOUS FOOTINGS. SEE FOUNDATION PLAN FOR ADDITIONAL REINFORCING REQUIRED AT COLUMN FOOTINGS.</li> <li>PROVIDE 1/2" DIAMETER ANCHOR BOLTS AT 6'-0" O.C. MAXIMUM TO SECURE FRAMING SILL TO FOUNDATION.</li> <li>PROVIDE EXTERIOR AND/OR INTERIOR FOOTING DRAINS AS REQUIRED BY SITE CONDITIONS.</li> <li>INSTALL FOUNDATION WATERPROOFING TO BELOW GRADE SURFACES.</li> <li>INSTALL FOUNDATION INSULATION AS REQUIRED BY LOCAL CODES.</li> </ol>

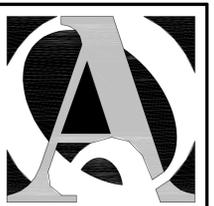
DESIGN CRITERIA							
GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM		WINTER DESIGN TEMP	
	SPEED (mph)	TOPOGRAPHIC effects		WIND EXPOSURE CATEGORY	Weathering	Frost Ice depth	Termin
30 psf APPEND	R. n/a	R301, 2, 1, 4	APPEND. R	SEVERE	42"	MODERATE TO HEAVY	7° F
ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARD	AIR FREEZING INDEX	MEAN ANNUAL TEMP	CLIMATE ZONE			
YES	FEWA MAR. 500 OR LESS	50° F	5A				

CODES THIS PROJECT WAS DESIGNED TO:  
2009 INTERNATIONAL RESIDENTIAL CODE W/ 2013 CONNECTICUT AMENDMENT  
2009 INTERNATIONAL ENERGY CONSERVATION CODE W/ 2013 CONNECTICUT AMENDMENT  
2011 NATIONAL ELECTRICAL CODE (NFPA 70) W/ 2013 CONNECTICUT AMENDMENT

ARCHITECTURAL SYMBOLS	
	EXISTING WALL
	WALL TO BE DEMOLISHED
	NEW STUD WALL
	NEW CMU WALL
	NEW FOUNDATION WALL
	ROOM NAME FLOOR FINISH ROOM SIZE (if applicable)
	SECTION MARKER
	ELEVATION MARKER
	WINDOW IDENTIFICATION
	ELEVATION MARKER
	EXISTING DOOR
	NEW DOOR

GENERAL NOTES
<ol style="list-style-type: none"> <li>ALL CONSTRUCTION ON THIS HOME, AND ANY CHANGES MADE TO THE DESIGN OF THIS HOME, EITHER BEFORE OR DURING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE BUILDING CODE. NOTHING REPRESENTED WITHIN THESE PLANS SHALL ALLEVIATE THE APPLICABLE CODE REQUIREMENTS FOR THE CONSTRUCTION RELATED TO THIS PROJECT.</li> <li>NOTIFY QUISENBERRY ARCARI ARCHITECTS, LLC AT (860) 677-4594 IMMEDIATELY IF PROBLEMS SHOULD ARISE DURING THE CONSTRUCTION ON THIS HOME WITH RESPECT TO STRUCTURAL INTEGRITY, FRAMING CONFLICTS, OR GENERAL CONCERNS.</li> <li>THESE DRAWINGS DO NOT REPRESENT ALL COMPONENTS OR DETAILS REQUIRED TO PROPERLY CONSTRUCT THIS HOME. IT IS ASSUMED THAT THE WORK WILL BE PERFORMED BY COMPETENT, SKILLED AND LICENSED TRADE CONTRACTORS IN ACCORDANCE WITH INDUSTRY STANDARDS AND CARE.</li> <li>UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL NEW FINISHES (ROOFING, SIDING, TRIM, ETC.) SHALL MATCH EXISTING.</li> <li>PATCH EXISTING AREAS AFFECTED BY THE NEW WORK. MATCH EXISTING FINISHES GUIDELINES.</li> <li>EXTEND EXISTING SERVICES (MECHANICAL, PLUMBING, ELECTRICAL, ETC.) TO ACCOMMODATE THE NEW CONSTRUCTION. PROVIDE UPGRADES TO EXISTING COMPONENTS AS NECESSARY TO PROVIDE SATISFACTORY PERFORMANCE WITHIN THE COMPLETED STRUCTURE.</li> </ol>

MECHANICAL NOTES
<ol style="list-style-type: none"> <li>MECHANICAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY THE ARCHITECT OF ANY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER INSTALLATION OF THE NEW SYSTEMS.</li> <li>MECHANICAL CONTRACTOR SHALL DESIGN, PURCHASE AND INSTALL ALL NEW COMPONENTS AS REQUIRED TO PROPERLY CONDITION THE SPACE(S) AFFECTED BY THIS CONSTRUCTION PROJECT. IF THE MODIFICATION OF EXISTING SYSTEMS IS NECESSARY, SUCH MODIFICATIONS SHALL NOT ADVERSELY AFFECT THE OPERATION OF THESE SYSTEMS OR COMPONENTS.</li> <li>COORDINATE MECHANICAL WORK WITH THE WORK OF OTHER TRADES. DO NOT ALTER THE WORK OF PREVIOUS TRADES WITHOUT PRIOR APPROVAL.</li> <li>PERFORM ALL NEW MECHANICAL WORK IN ACCORDANCE WITH LOCAL CODES AND ACCEPTED STANDARDS OF PRACTICE.</li> </ol>



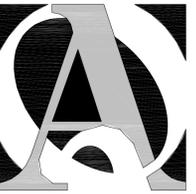
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318 Main Street  
Farmington, CT 06032

**REHABILITATION/RECONSTRUCTION WORK FOR:**

**ROBIN MONGILLO**  
APPLICANT #2206  
MILFORD, CT  
70 SHELL AVE.

Sheet Description:	
GENERAL NOTES	
Issue Dates:	
April 10, 2015	
No Scale	
Project #:	Drawn By:
QA 1346-38	JcB
Sheet #:	
<b>G1.0</b>	





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REHABILITATION/RECONSTRUCTION WORK FOR:

**ROBIN MONGILLO**  
 APPLICANT #2206

MILFORD, CT

70 SHELL AVE.

Sheet Description:

**ELEVATIONS**

Issue Dates:

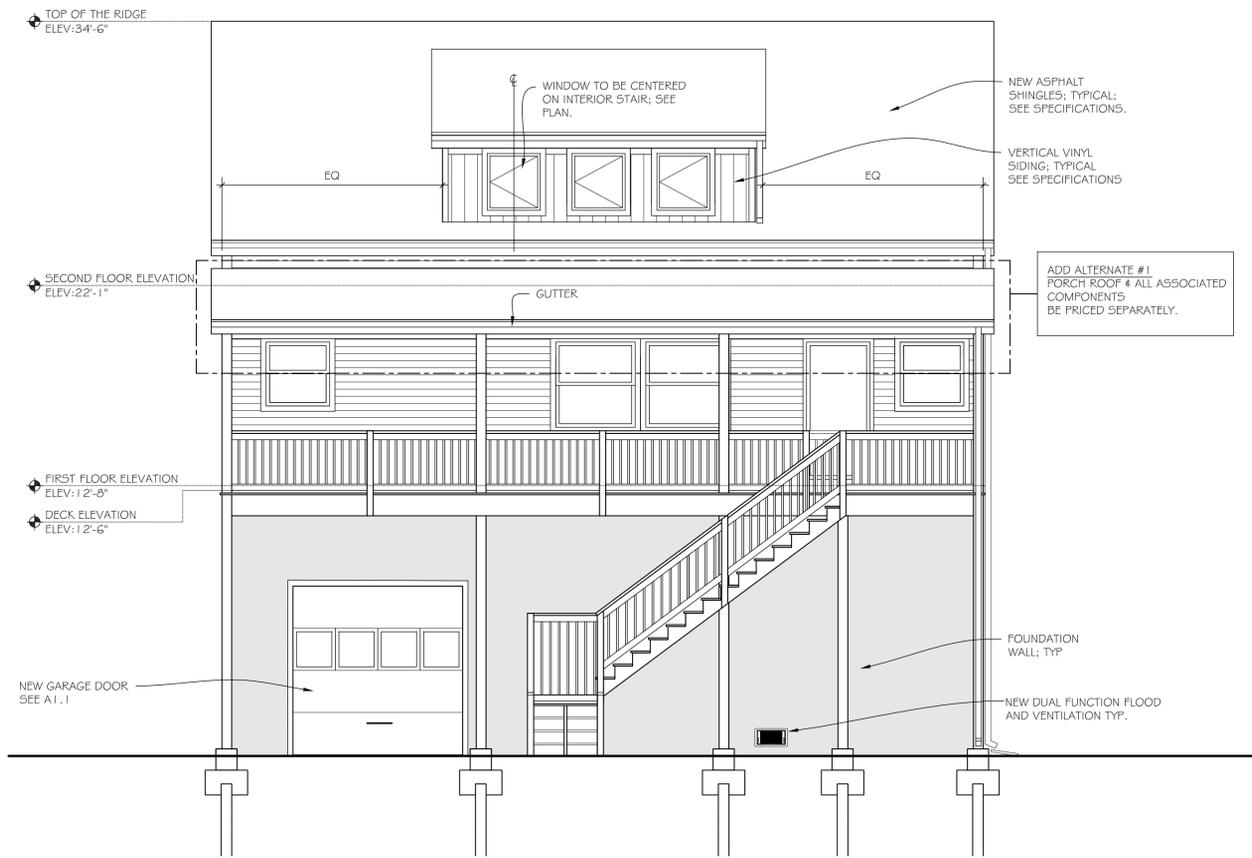
April 10, 2015

Project #:  
QA 1346-38

Drawn By:  
CPH

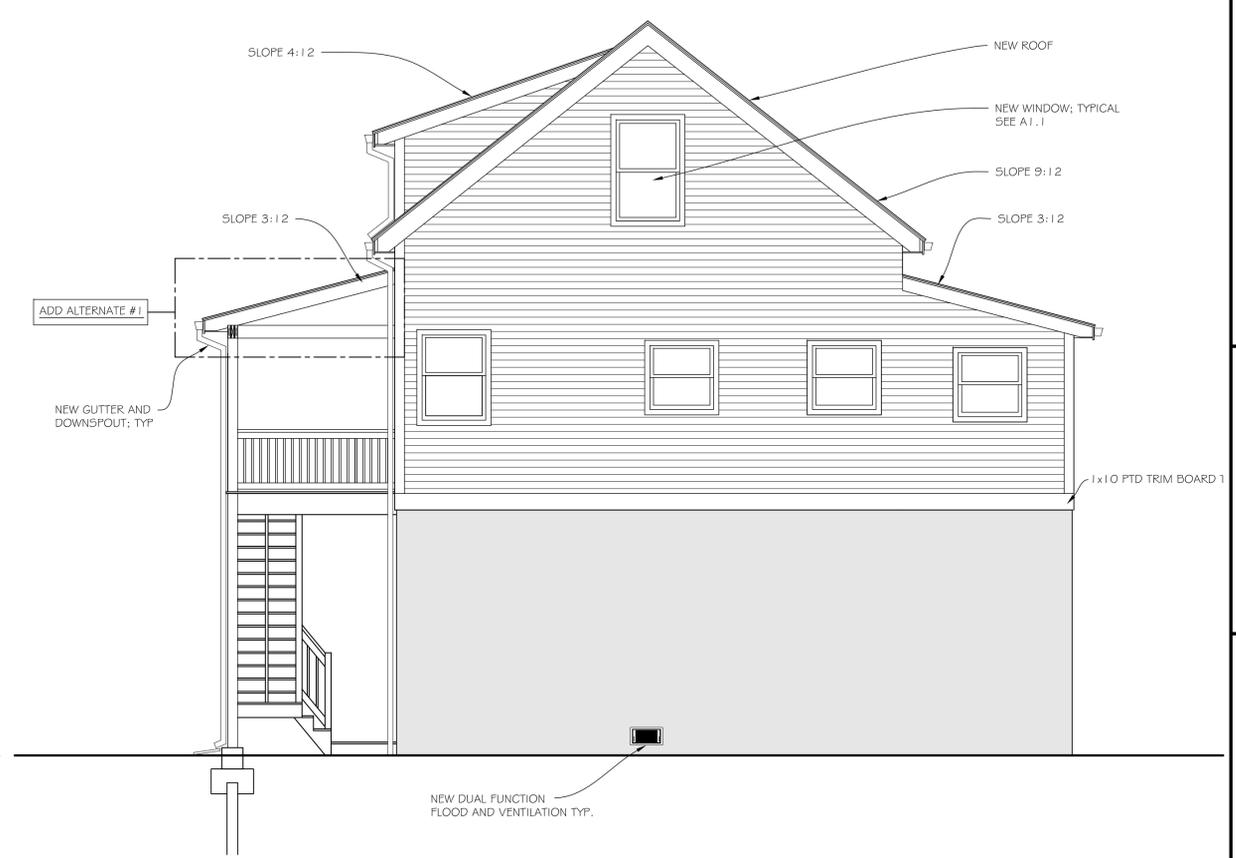
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**A2.0**



**FRONT ELEVATION/EAST**

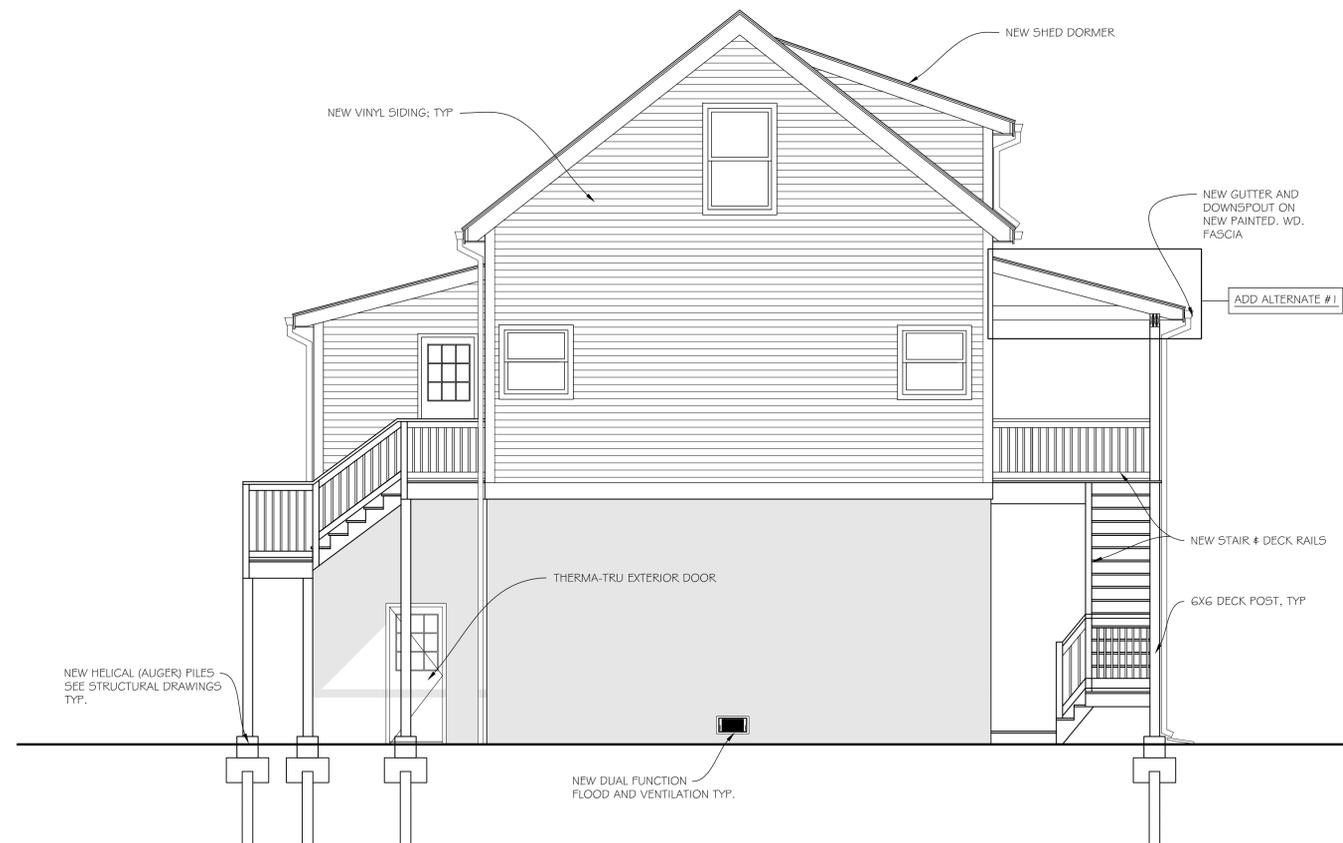
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**SIDE ELEVATION/NORTH**

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

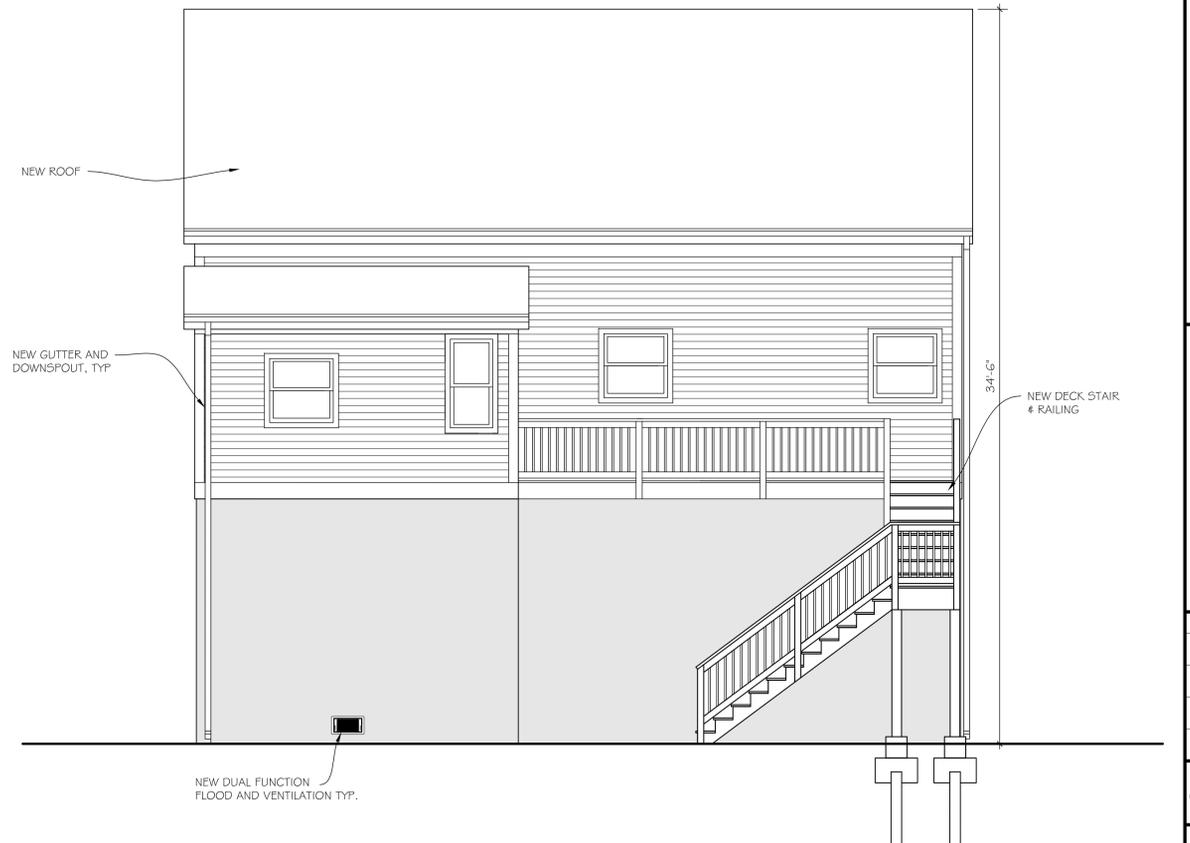
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**SIDE ELEVATION/SOUTH**

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

2



**REAR ELEVATION/WEST**

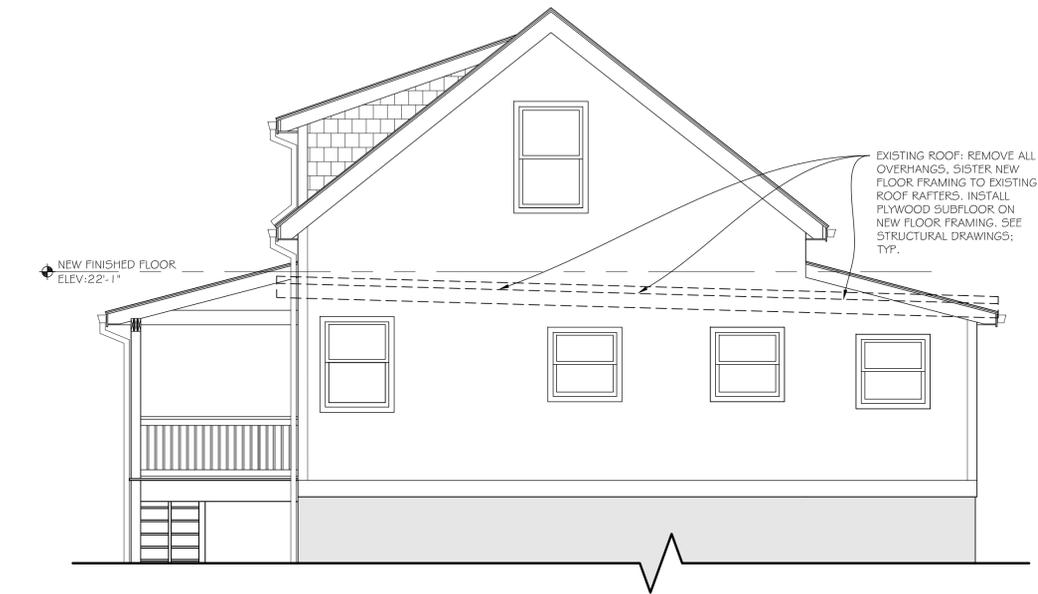
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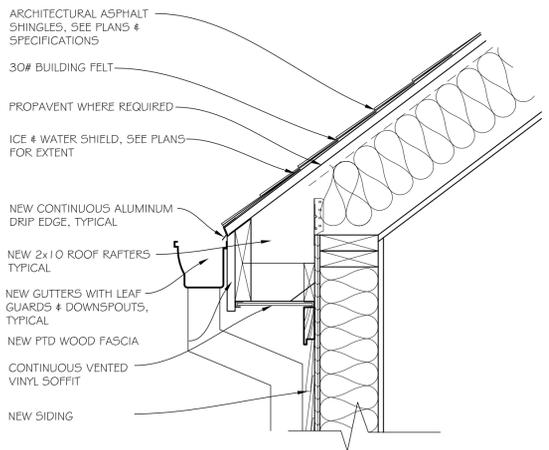
**EXISTING CONDITIONS**  
SCALE: NTS

7



**SIDE ELEVATION / NORTH**  
SCALE: 1/4"=1'-0"

6

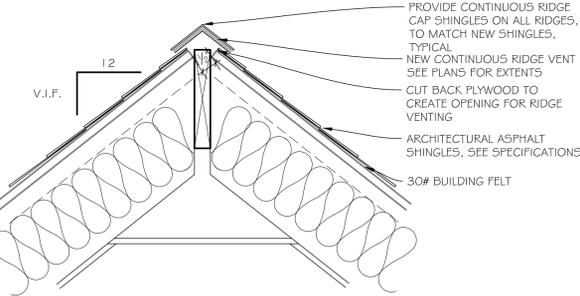


**TYPICAL EAVE DETAIL "NEW"**  
SCALE: 1 1/2"=1'-0"

6

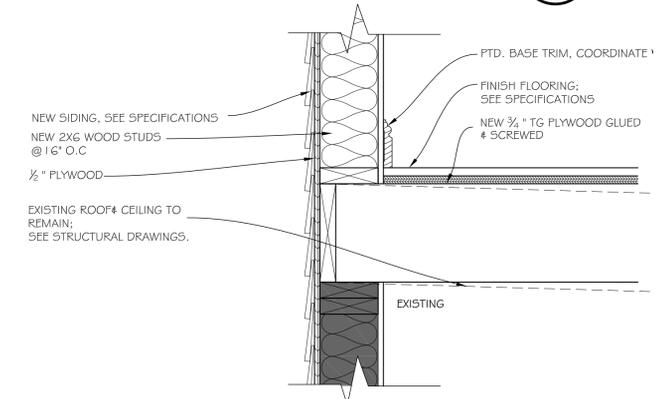
**TYPICAL WALL/ROOF DETAIL AS OCCURS**  
SCALE: 1 1/2"=1'-0"

5



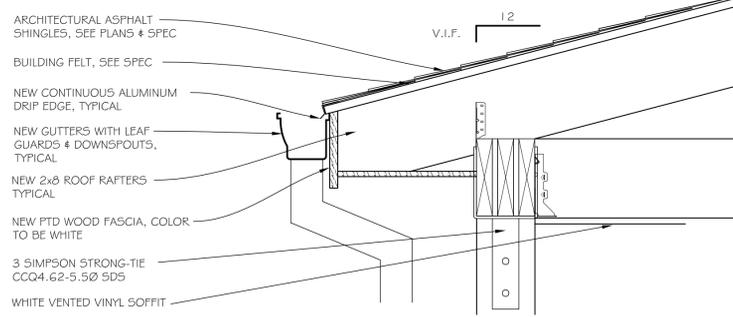
**TYPICAL RIDGE DETAIL "NEW"**  
SCALE: 1 1/2"=1'-0"

4



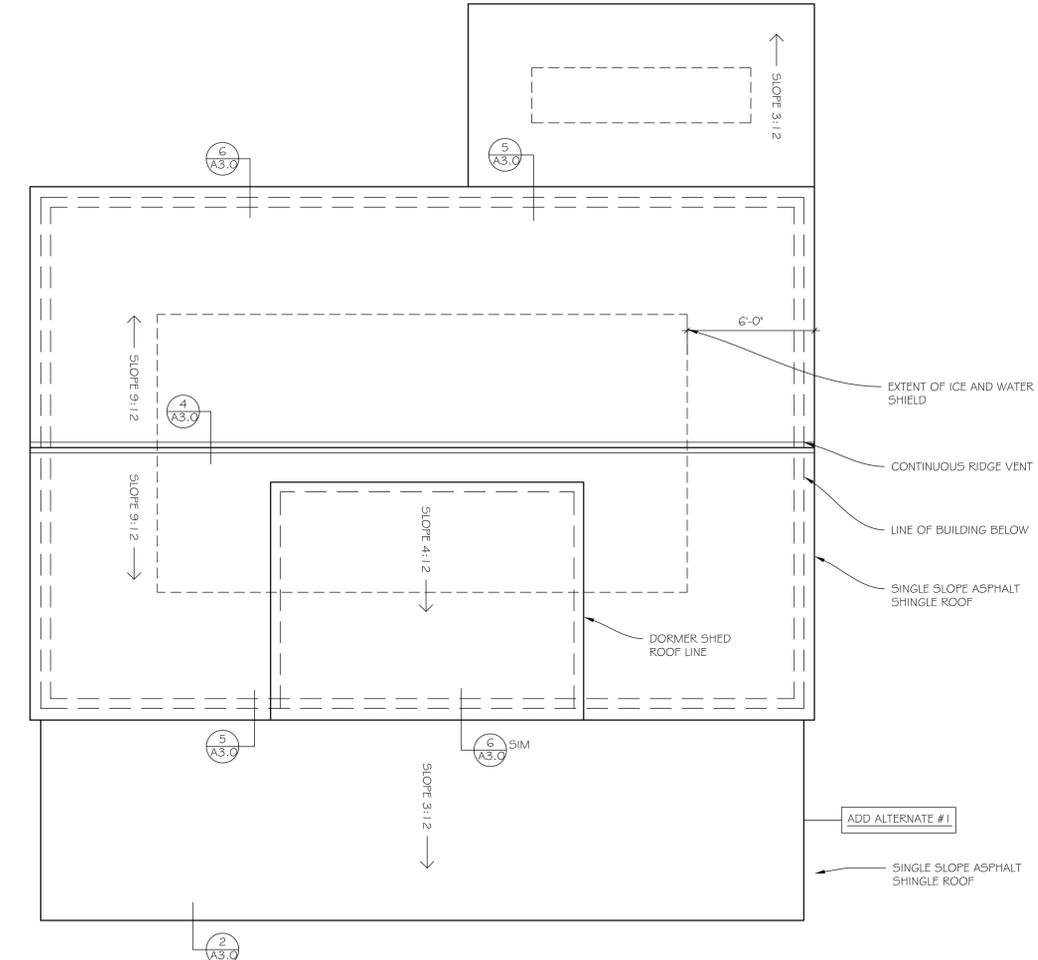
**TYPICAL EAVE DETAIL "NEW"**  
SCALE: 1 1/2"=1'-0"

3



**TYPICAL EAVE DETAIL AT PORCH (ADD ALTERNATE #1)**  
SCALE: 1 1/2"=1'-0"

2



**ROOF PLAN**  
SCALE: 1/4"=1'-0"

1

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REHABILITATION/RECONSTRUCTION WORK FOR:  
**ROBIN MONGILLO**  
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70 SHELL AVE.  
MILFORD, CT

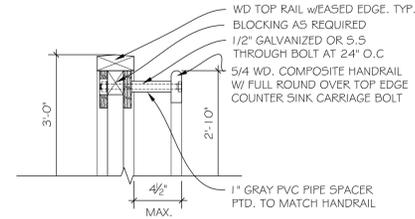
Sheet Description:  
**ROOF PLAN, ROOF DETAILS**

Issue Dates:  
April 10, 2015

Project #: QA 1346-38  
Drawn By: CPH

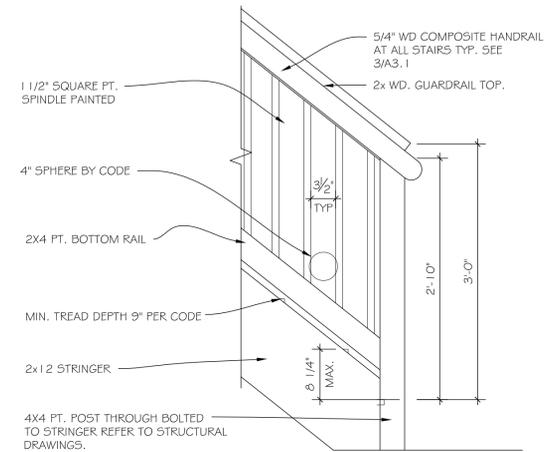
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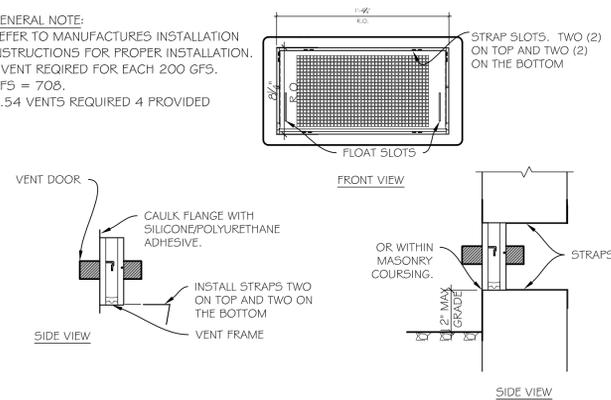
**HANDRAIL DETAIL**  
SCALE: 1-1/2"=1'-0" **4**

- GENERAL STAIR NOTES:
1. STAIR WIDTH SHALL NOT BE LESS THAN 36"
  2. STAIR WIDTH BETWEEN HANDRAILS SHALL NOT BE LESS THAN 27"
  3. HANDRAILS SHALL NOT PROJECT MORE THAN 4 1/2" INTO THE WIDTH OF THE STAIR ON EITHER SIDE.
  4. HANDRAILS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF EACH FLIGHT.

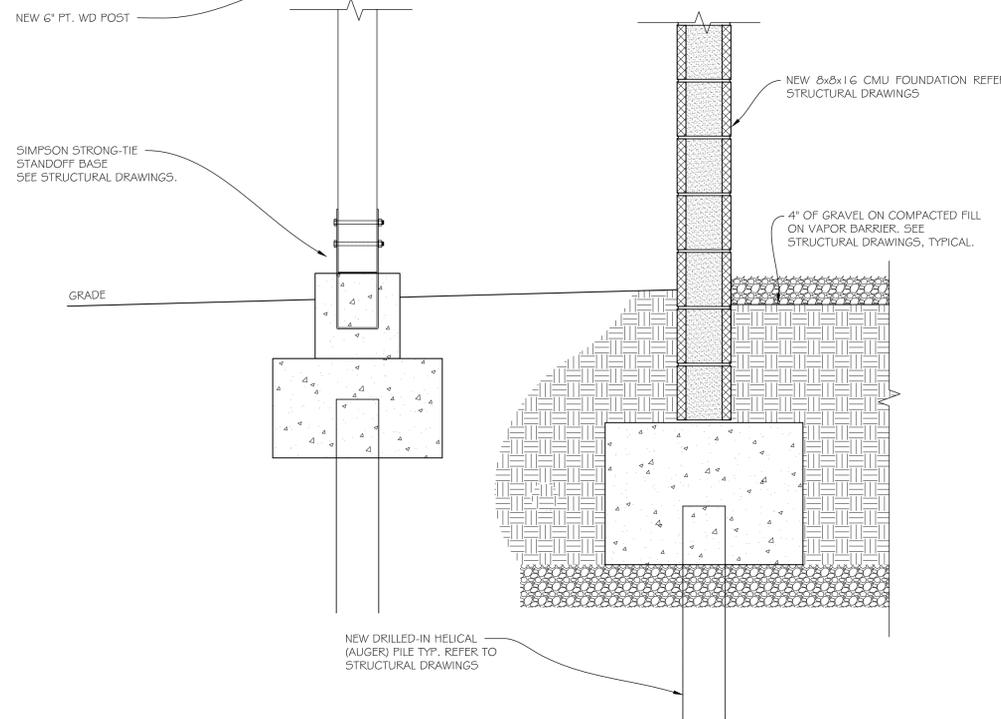
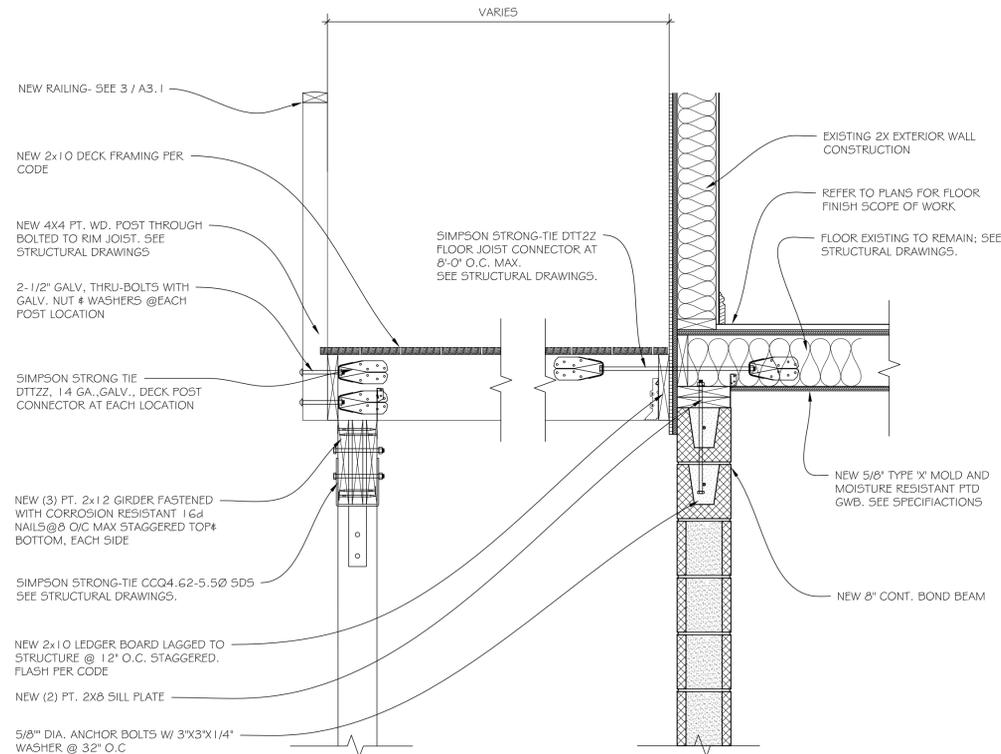


**DECK STAIR AND RAIL**  
SCALE: 1"=1'-0" **3**

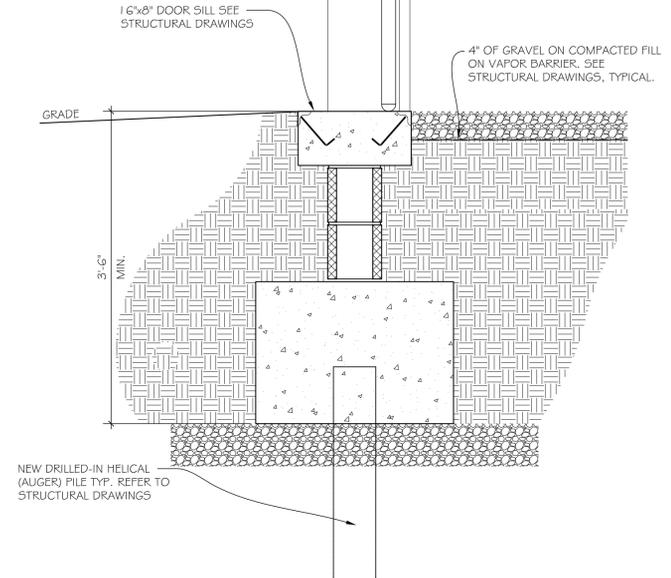
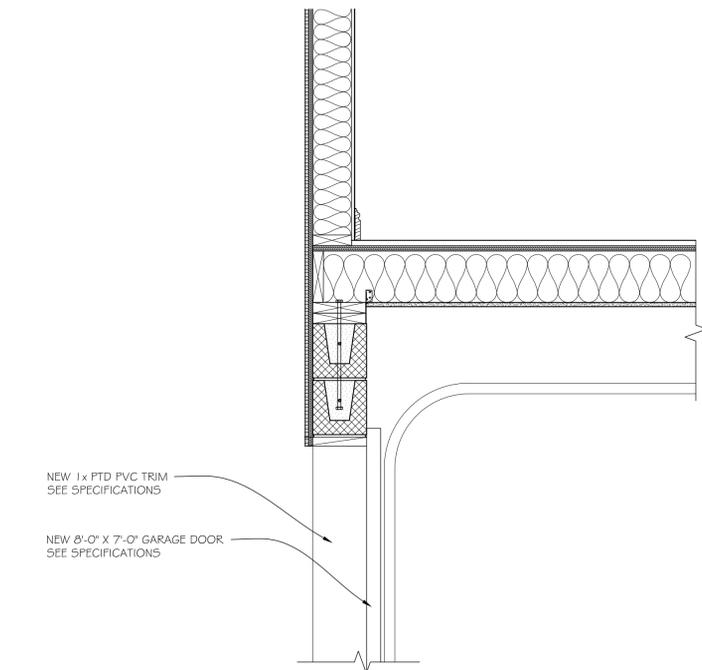
- GENERAL NOTE:
1. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PROPER INSTALLATION.
  2. 1 VENT REQUIRED FOR EACH 200 GFS. GF5 = 708.
  3. 5.4 VENTS REQUIRED 4 PROVIDED



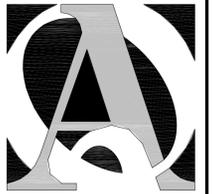
**DUAL FUNCTION FLOOD & VENTILATION VENT**  
SCALE: 1 1/2"=1'-0" **2**



**WALL SECTIONS AT DECK AND GARAGE DOOR**  
SCALE: 1 1/2"=1'-0" NOTE: ALTERNATE#1 (FRONT PORCH ROOF) NOT SHOWN



**1**



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REHABILITATION/RECONSTRUCTION WORK FOR:

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MILFORD, CT  
70 SHELL AVE.

Sheet Description:

**SECTIONS AND DETAILS**

Issue Dates:

April 10, 2015

Project #:

QA 1346-38

Drawn By:

CPH

Sheet #:

**A3.1**

# "STRUCTURAL GENERAL NOTES"

## A. CODES AND STANDARDS:

1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.
  - a. 2005 CONNECTICUT STATE BUILDING CODE
    - (1) "2009 INTERNATIONAL RESIDENTIAL BUILDING CODE"
    - (2) 2009/2011/2013 CONNECTICUT AMENDMENTS
  - b. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318", (LATEST EDITION) AMERICAN CONCRETE INSTITUTE.
  - c. HOT WEATHER CONCRETING, ACI 305R AND COLD WEATHER CONCRETING ACI 306R (LATEST EDITION).

## B. DESIGN DATA:

1. GRAVITY - FLOOR LIVE LOADS
  - a. ROOMS 40 PSF
  - b. ATTIC WITHOUT STORAGE 10 PSF
  - c. DECK PLATFORM 40 PSF
2. GRAVITY - SNOW LOADS
  - a. GROUND SNOW LOAD (Pg) 30 PSF
  - b. SNOW EXPOSURE FACTOR (Ce) 0.9
  - c. THERMAL FACTOR (Ct) 1.0
  - d. SNOW LOAD IMPORTANCE FACTOR (I) 1.0
  - e. FLAT-ROOF SNOW LOAD (Pf) 30 PSF (NON-REDUCIBLE ROOF LIVE LOAD)
3. LATERAL LOADS - WIND
  - a. MAIN WIND-FORCE RESISTING SYSTEM:
    - (1) BASIC WIND SPEED, 3 SECOND GUST (V35): 100 MPH EXPOSURE: D
4. LATERAL LOADS - SEISMIC
  - a. SEISMIC DESIGN CATEGORY: B

## C. FOUNDATIONS/GEOTECHNICAL REPORT:

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 08/25/2014 GEOTECHNICAL ENGINEERING REPORT PREPARED BY THE GEOTECHNICAL DEPARTMENT LLC. SEE THAT REPORT FOR ADDITIONAL REQUIREMENTS.

## D. MATERIALS:

1. THE FOLLOWING ASTM STANDARDS AND DESIGN STRESSES SHALL BE USED FOR THE APPROPRIATE MATERIALS USED IN CONSTRUCTION OF THIS PROJECT.
2. CEMENT: ASTM C150; TYPE I OR III
3. AGGREGATES: ASTM C33 (NOMINAL WEIGHT)
4. CONCRETE: ALL CONCRETE SUBJECT TO EXPOSURE SHALL BE AIR-ENTRAINED 5% +/- 1-1/2% BY VOLUME. AIR-ENTRAINING ADMIXTURE TO COMPLY WITH ASTM C-260
 

APPLICATION	F'c @ 28 DAYS	WT (PCF)
a. GRADE BEAMS	3500	145
b. FOOTINGS/PIERS	3000	145
c. EXTERIOR CONCRETE SLABS AND CURBS	4000	145
5. REINFORCEMENT:
  - a. DEFORMED REINFORCING BARS ASTM A615, GRADE 60
  - b. WELDED WIRE FABRIC (WWF) ASTM A185

## E. CONSTRUCTION:

1. GENERAL:
  - a. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
  - b. SUBMIT SHOP DRAWINGS AT LEAST 15 DAYS BEFORE DATE REVIEWED SUBMITTALS WILL BE NEEDED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
  - c. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPERLY DESIGNED FORMWORK, STAGINGS, BRACING, SHEETING, SHORING, ETC.
  - d. IMPLEMENTING JOB SAFETY, CONSTRUCTION PROCEDURES AND TEMPORARY SHORING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - e. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS.
  - f. HOUSE RAISING CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO BEGINNING WORK. VERIFY EXISTING BEARING WALLS ARE PLATFORM FRAMED, NOT BALLOON FRAMED. CONTRACTOR IS SOLELY RESPONSIBLE TO SHOW ALL SHORING AND BRACING, AS REQUIRED TO STABILIZE THE HOUSE DURING THE LIFTING PROCESS.

- g. DISCONNECT ALL UTILITIES AND WALL SILL ANCHORAGE BEFORE LIFTING HOUSE. WORK. VERIFY EXISTING BEARING WALLS ARE PLATFORM FRAMED, NOT BALLOON FRAMED. CONTRACTOR IS SOLELY RESPONSIBLE TO SHOW ALL SHORING AND BRACING, AS REQUIRED TO STABILIZE THE HOUSE DURING THE LIFTING PROCESS.
- h. EXCAVATE AROUND FOUNDATION AND CUT HOLES IN FOUNDATION AND HOUSE WALLS ARE REQUIRED TO INSTALL LIFTING BEAMS. RAISE HOUSE WITH JACKS.
- i. CONTRACTOR IS RESPONSIBLE FOR REPAIR ALL WALL AND FLOOR FRAMING AND FINISHES CRACKED OR DAMAGED AS A RESULT OF THE HOUSE LIFTING PROCESS.
- j. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
- k. CONTRACTOR SHALL FURNISH DIMENSIONED SHOP DRAWINGS AT ALL LEVELS LOCATING FLOOR AND ROOF EDGES FOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER.
- l. THE EXISTING SUPERSTRUCTURE HAS NOT BEEN RETROFITTED TO MEET CURRENT CODE REQUIREMENTS.

## F. HELICAL PILES:

1. GENERAL:
  - a. HELICAL PIER COMPONENTS SHALL BE DESIGNED WITHIN LIMITS PROVIDED BY AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) AND COMPLY WITH ICBO REPORT ER-5110 OR PFC-5551 (SUBMIT CERTIFICATION). COMPONENTS SHALL BE MANUFACTURED BY A.B. CHANCE HELICAL PIER FOUNDATION OR DIXIE ANCHORING SYSTEM (OR APPROVED EQUIVALENT) CONSISTING OF HELICAL STEEL PIERS WITH ONE OR MORE HELICALLY SHAPED STEEL PLATES ATTACHED TO A CENTRAL SHAFT, PIERS AND EXTENDED BY ADDING SHAFT EXTENSIONS.
  - b. THE INSTALLING CONTRACTOR SHALL SUBMIT TO THE OWNER OR OWNER'S REPRESENTATIVE PILE MANUFACTURER'S CERTIFICATE OF COMPETENCY IN INSTALLATION OF HELICAL PILES. CONTRACTOR'S EVIDENCE OF A MINIMUM FIVE YEARS OF EXPERIENCE IN THE INSTALLATION OF HELICAL PILES, AND A LETTER FROM THE PILE MANUFACTURER, PILE DISTRIBUTOR OR MANUFACTURER'S REPRESENTATIVE EXPRESSING ABILITY AND INTENT TO PROVIDE ON-SITE SUPERVISION OF THE PILE INSTALLATION.
  - c. CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL, SHOP DRAWINGS AND SPECIFICATIONS FOR THE HELICAL PILES AND HELICAL ANCHORS INTENDED FOR USE ON THIS PROJECT. THE SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF THE CONTRACTOR'S PILE DESIGN PROFESSIONAL (INFORMATION TO INCLUDE MAXIMUM ALLOWABLE MECHANICAL COMPRESSION AND TENSILE STRENGTH OF THE HELICAL PILES AND ANCHORS; PLANNED INSTALLATION DEPTH; NUMBER OF LEAD AND EXTENSION SECTIONS; HELICAL CONFIGURATION; MANUFACTURER'S RECOMMENDED CAPACITY TO INSTALLATION TORQUE RATIO; MINIMUM FINAL INSTALLATION TORQUES; AND CORROSION PROTECTION). CONTRACTOR'S PILE DESIGN PROFESSIONAL SHALL ALSO SUBMIT SIGNED AND SEALED DESIGN CALCULATIONS (INCLUDING CONSIDERATIONS FOR DOWNDRAW, BUCKLING, AND EXPANSIVE SOILS); SOIL BEARING AND PULLOUT CAPACITY; AND BRACKETS, BEARING PLATES, CAP PLATES OR OTHER TERMINATION DEVICES THAT ARE BOLTED OR WELDED TO THE ENDS OF THE HELICAL PILES OR ANCHORS.
  - d. THE MANUFACTURER SHALL PROVIDE A TEN YEAR WARRANTY AGAINST MANUFACTURING DEFECTS ON HELICAL PILE, HELICAL ANCHOR, AND BRACKET PRODUCTS.
  - e. WORK SHALL NOT BEGIN UNTIL ALL THE SUBMITTALS HAVE BEEN RECEIVED AND APPROVED BY THE ENGINEER. ALL COSTS ASSOCIATED WITH INCOMPLETE OR UNACCEPTABLE SUBMITTALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - f. IT IS THE CONTRACTOR'S PILE DESIGN PROFESSIONAL'S RESPONSIBILITY TO SELECT THE APPROPRIATE SIZE AND TYPE OF HELICAL PILES, HELICAL ANCHORS, AND BRACKETS TO SUPPORT THE NOMINAL DESIGN LOADS SHOWN ON THE DRAWINGS. THESE SPECIFICATIONS AND THE DRAWINGS PROVIDE MINIMUM REQUIREMENTS TO AID THE CONTRACTOR IN MAKING APPROPRIATE MATERIALS SELECTIONS. FAILURE TO ACHIEVE PROPER TORQUE AND CAPACITY SHALL RESULT IN CONTRACTOR REPLACING HELICAL PILES AND ANCHORS AS APPROPRIATE TO SUPPORT THE REQUIRED LOADS. ALL MATERIAL REPLACEMENTS SHALL BE ACCEPTABLE TO ENGINEER.
  - g. THE DESIGN STRENGTH OF THE HELICAL BEARING PLATES, SHAFT CONNECTIONS, BRACKETS, AND THE PILE SHAFT ITSELF SHALL BE SUFFICIENT TO SUPPORT THE NOMINAL DESIGN LOADS SPECIFIED ON THE CONTRACT DRAWINGS TIMES A FACTOR OF SAFETY OF 2.
  - h. THE CENTRAL SHAFT, SHAFT CONNECTIONS AND EXTERNAL SLEEVES SHALL BE HIGH STRENGTH STRUCTURAL STEEL MEETING THE REQUIREMENTS OF ASTM A513 HELIX PLATES SHALL BE STRUCTURAL STEEL MEETING THE REQUIREMENTS OF ASTM GRADE 50 MINIMUM.
  - i. EACH PILE ASSEMBLY SHALL BE DESIGNED TO MEET CORROSION SERVICE LIFE OF 50 YEARS IN ACCORDANCE WITH ICC-ES ACCEPTANCE CRITERIA 358. PROVIDE A HOT DIPPED GALVANIZED COATING ON ALL PILES, BRACKETS, AND ASSOCIATED ASSEMBLIES IN ACCORDANCE WITH ASTM A123 MINIMUM.
  - j. EACH HELICAL PILE SHALL BE INSTALLED AT THE LOCATION AND TO THE ELEVATION, MINIMUM LENGTH, INSTALLATION TORQUE, AND ALLOWABLE CAPACITIES SHOWN ON THE DRAWINGS AND IN THE GEOTECHNICAL REPORT.
  - k. USE PLACEMENT METHOD WHICH WILL NOT CONFLICT OR CAUSE DAMAGE TO EXISTING STRUCTURES.
    - l. THE MINIMUM INSTALLATION EQUIPMENT RATING SHALL EQUAL OR EXCEED THE MAXIMUM TORQUE OF THE SPECIFIED HELICAL PIER.
    - m. PROVIDE A TORQUE MONITORING DEVICE AS PART OF THE INSTALLING UNIT OR AS A SEPARATE IN-LINE DEVICE. MONITOR TORQUE APPLIED BY THE INSTALLING UNITS DURING THE ENTIRE INSTALLATION AND RECORD VALUES ACHIEVED ON EACH PIER.
    - n. INSTALL PIERS IN A SMOOTH AND CONTINUOUS MANNER. APPLY SUFFICIENT DOWNWARD PRESSURE TO ADVANCE THE PIER. THE RATE OF PIER ROTATION SHALL BE FIVE TO TWENTY REVOLUTIONS PER MINUTE.
    - o. THE HELICAL PILE AND ANCHOR SHAFT ALIGNMENT SHALL BE WITHIN A TOLERANCE OF 3° (IN ANY DIRECTION). THE VERTICAL ALIGNMENT SHALL BE WITHIN 2 DEGREES OF VERTICAL.

## G. FOUNDATIONS + STRUCTURAL EARTHWORK:

1. GENERAL:
  - a. SEE THE 08/25/2014 GEOTECHNICAL REPORT PREPARED BY THE GEOTECHNICAL DEPARTMENT LLC DRILLED-IN DEEP PILE FOUNDATION SYSTEM REQUIREMENTS. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK.
  - b. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK.
  - c. EXISTING UTILITIES KNOWN TO BE IN THE CONSTRUCTION AREA HAVE BEEN INDICATED. THE SIZE, LOCATION AND DEPTH OF THE UTILITIES ARE NOT KNOWN EXACTLY AND MAY VARY SIGNIFICANTLY FROM THAT INDICATED. OTHER UNKNOWN UTILITIES NOT INDICATED MAY ALSO BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES, WHETHER INDICATED OR NOT, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS.
  - d. ALL GRADE BEAMS AND PILE CAPS SHALL BE PLACED ON UNDISTURBED SOIL, CRUSHED STONE OR COMPACTED STRUCTURAL FILL. VERIFICATION OF BEARING CONDITIONS SHALL BE MADE BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT.
  - e. CONCRETE FOR FOUNDATIONS SHALL BE PLACED ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN BY THE GEOTECHNICAL ENGINEER.
  - f. EXCAVATIONS SHALL BE DEWATERED TO ALLOW INSTALLATION OF FOOTINGS IN DRY ATMOSPHERE.
  - g. ALL SHORING, SHEETING, AND DEWATERING SHALL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR. SHEETING AND SHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR CONTRACTOR'S /ENGINEERING SEAL AND SIGNATURE.
2. BACKFILL
  - a. ALL BACKFILL SHALL BE PER THE 08/25/2014 GEOTECHNICAL REPORT PREPARED BY THE GEOTECHNICAL DEPARTMENT LLC, WITH OPTIMUM MOISTURE CONTENT FOR COMPACTING.
  - b. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST FOUNDATION WALLS UNTIL THE CONCRETE/ GROUTED MASONRY WALLS HAVE REACHED DESIGN STRENGTH.
  - c. WHERE THE FINAL GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL, BACKFILL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS WITHIN 12" ON BOTH SIDES AT ANY TIME.
3. STRUCTURAL FILL
  - a. REFER TO 08/25/2014 GEOTECHNICAL REPORT REQUIREMENTS PREPARED BY THE GEOTECHNICAL DEPARTMENT LLC FOR COMPACTED STRUCTURAL FILL. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK. INSPECTION OF THE PLACEMENT OF COMPACTED STRUCTURAL FILL SHALL BE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER.

## H. CONCRETE:

1. CAST-IN-PLACE
  - a. REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
 

NON-POST-TENSIONED CONCRETE:	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	2"
#6 BARS AND LARGER	1-1/2"
#5 AND SMALLER	

CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALL, JOISTS:	3/4"
#11 BARS OR SMALLER	
  - b. ALL FORMWORK, SHORING AND RESHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMISSIONS SHALL BEAR THE ENGINEER'S SEAL AND SIGNATURE.
  - c. NO SLEEVE SHALL BE PLACED THROUGH ANY CONCRETE ELEMENT UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, APPROVED SLEEVING SHOP DRAWINGS OR SPECIFICALLY AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
  - d. CORE DRILLING OF FOUNDATIONS, GRADE BEAMS, SHALL NOT BE PERMITTED, UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
  - e. NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. MAKE BARS CONTINUOUS AROUND CORNERS.
  - f. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING BOLTS OR ADHESIVE ANCHORS.
  - g. ANY STOP IN CONCRETE MUST BE MADE WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS, UNLESS OTHERWISE SHOWN. ALL REINFORCING IS TO BE CONTINUOUS THROUGH JOINTS.



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REHABILITATION/RECONSTRUCTION WORK FOR:

ROBIN MONGILLO

APPLICANT #2206

MILFORD CT

70 SHELL AVENUE

Sheet Description:

**STRUCTURAL  
GENERAL  
NOTES**

Issue Dates:

APRIL 10, 2015

Project #:  
QA1346/16

Drawn By:  
B.R.P

Sheet #:



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**S-01**

# "STRUCTURAL GENERAL NOTES"



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REHABILITATION/RECONSTRUCTION WORK FOR:

**ROBIN MONGILLO**

APPLICANT #2206

MILFORD CT

70 SHELL AVENUE

Sheet Description:

**STRUCTURAL GENERAL NOTES AND TYPICAL DETAILS**

Issue Dates:

APRIL 10, 2015

Project #:  
QA1346/16

Drawn By:  
B.R.P.

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**S-02**

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## J. STRUCTURAL WOOD NOTES:

- ALL VISUALLY GRADED STRUCTURAL LUMBER AND WOOD CONSTRUCTION SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND ITS SUPPLEMENT "DESIGN VALUES FOR WOOD CONSTRUCTION".
- PLYWOOD SHALL BE APA RATED SHEATHING WITH A MINIMUM THICKNESS OF 3/4" T&G FOR FLOORS, 15/32" FOR WALLS AND 19/32" FOR ROOF SHEATHING.
- ALL WOOD IN PERMANENT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- PLYWOOD SHEATHING SHALL BE INSTALLED WITH ITS FACE GRAIN PERPENDICULAR TO THE SUPPORTING MEMBERS AND WITH A MINIMUM TWO SPAN CONDITION.
- UNLESS OTHERWISE NOTED ON THE DRAWINGS ALL STRUCTURAL NAILING SHALL CONFORM TO APPENDIX C OF THE CBCB.
- PROVIDE A MINIMUM OF TWO STUDS AT ALL BEAMS AND HEADERS, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

### WOOD FRAMING

- STRUCTURAL LUMBER INCLUDES: ROOF JOISTS, BUILT-UP HEADERS BEAMS, SISTERED JOISTS, STUD WALLS, TIES, AND BLOCKING. USE NEW LUMBER CONFORMING TO NOMINAL SIZES INDICATED.
- ALL LUMBER SUPPORT FRAMING SHALL BE DOUGLAS FIR #2 OR BETTER, AND HAVE THE FOLLOWING MINIMUM STRENGTH PROPERTIES:

MODULUS OF ELASTICITY	E = 1,600,000 PSI
BENDING STRESS	F <sub>b</sub> = 875 PSI
COMPRESSION PERPENDICULAR TO GRAIN	F <sub>c<sub>⊥</sub></sub> = 625 PSI
COMPRESSION PARALLEL TO GRAIN	F <sub>c<sub>  </sub></sub> = 1,300 PSI
HORIZONTAL SHEAR	F <sub>v</sub> = 95 PSI
TENSION PARALLEL TO GRAIN	F <sub>t</sub> = 575 PSI

### MICROLLAM (LVL)

- MICROLLAM LAMINATED VENEER LUMBER (LVL) SHALL BE FABRICATED OF EASTERN SPECIES (ES) OR WESTERN SPECIES (WS). THE FINISH PRODUCT SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

SHEAR MODULUS OF ELASTICITY	G = 125,000 PSI
MODULUS OF ELASTICITY	E = 2,000,000 PSI
FLEXURAL STRESS	F <sub>b</sub> = 2,600 PSI
TENSION STRESS	F <sub>t</sub> = 1,555 PSI
COMPRESSION PERPENDICULAR TO GRAIN PARALLEL TO GLUE LINE	F <sub>c<sub>⊥</sub></sub> = 750 PSI
COMPRESSION PARALLEL TO GRAIN	F <sub>c<sub>  </sub></sub> = 2510 PSI
HORIZONTAL SHEAR PERPENDICULAR TO GLUE LINE	F <sub>v</sub> = 285 PSI

### PARALLAM PLUS (PSL) WITH WOLMANIZED PRESERVATIVE

- PARALLAM PLUS PARALLEL STRAND LUMBER (PSL) SHALL BE FABRICATED OF EASTERN SPECIES (ES) OR WESTERN SPECIES (WS). THE FINISH PRODUCT SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

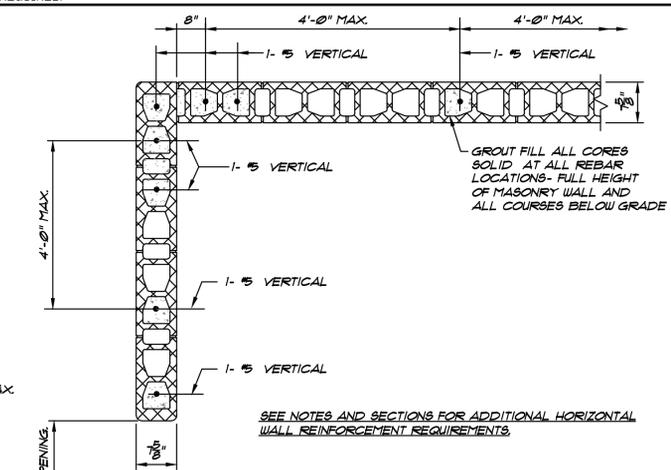
SHEAR MODULUS OF ELASTICITY	G = 91,250 PSI
MODULUS OF ELASTICITY	E = 1,460,000 PSI
FLEXURAL STRESS	F <sub>b</sub> = 1,827 PSI
TENSION STRESS	F <sub>t</sub> = 1,397 PSI
COMPRESSION PERPENDICULAR TO GRAIN PARALLEL TO GLUE LINE	F <sub>c<sub>⊥</sub></sub> = 368 p.s.i.
COMPRESSION PARALLEL TO GRAIN	F <sub>c<sub>  </sub></sub> = 1,508 p.s.i.
Horizontal shear perpendicular to glue line	F <sub>v</sub> = 197 p.s.i.

### PARALLAM (PSL)

- PARALLAM PARALLEL STRAND LUMBER (PSL) SHALL BE FABRICATED OF EASTERN SPECIES (ES) OR WESTERN SPECIES (WS). THE FINISH PRODUCT SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

SHEAR MODULUS OF ELASTICITY	G = 125,000 PSI
MODULUS OF ELASTICITY	E = 2,000,000 PSI
FLEXURAL STRESS	F <sub>b</sub> = 2,900 PSI
TENSION STRESS	F <sub>t</sub> = 2,025 PSI
COMPRESSION PERPENDICULAR TO GRAIN PARALLEL TO GLUE LINE	F <sub>c<sub>⊥</sub></sub> = 368 p.s.i.
COMPRESSION PARALLEL TO GRAIN	F <sub>c<sub>  </sub></sub> = 2,900 p.s.i.
Horizontal shear perpendicular to glue line	F <sub>v</sub> = 290 p.s.i.

- PARALLAM MANUFACTURER SHALL PROVIDE ALL METAL HANGERS FOR PARALLAM BEAMS & COLUMNS AS REQUIRED.



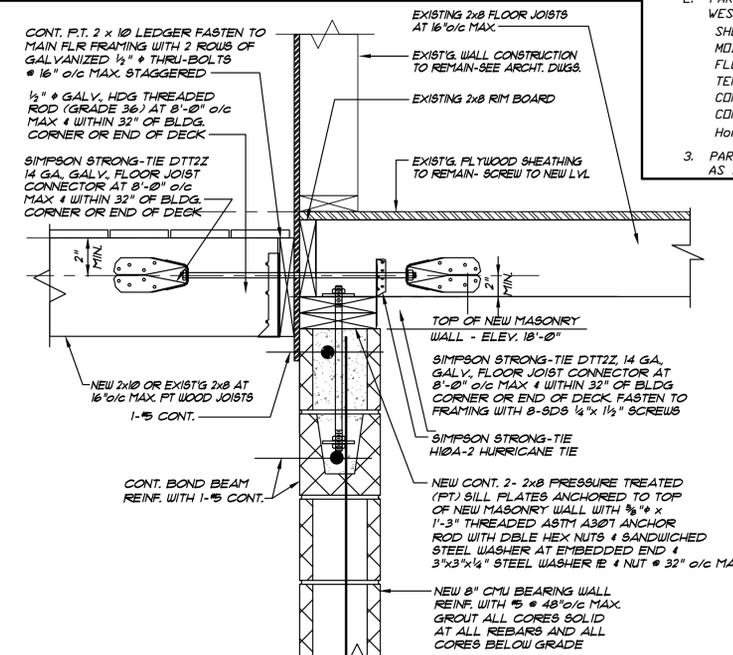
**PLAN DETAIL OF MASONRY WALL WALL VERTICAL REINFORCING**  
 SCALE: 3/4" = 1'-0"

## I. CONCRETE MASONRY:

- ALL MASONRY SHALL CONFORM TO AND BE ERRECTED IN ACCORDANCE WITH THE AMERICAN STANDARD BUILDING CODE REQUIREMENTS FOR MASONRY AND THE NATIONAL CONCRETE MASONRY ASSOCIATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING MASONRY.
- ALL MASONRY WALLS ARE TO BE CONSTRUCTED OF CONCRETE MASONRY WITH COMPRESSIVE STRENGTH F<sub>m</sub> = 1900 PSI. THE GENERAL CONTRACTOR IS RESPONSIBLE TO ASSURE MASONRY STRENGTH AS SPECIFIED.
- TYPE "S" MORTAR SHALL BE USED IN ALL CMU MASONRY.
- DUR-O-WALL TYPE JOINT REINFORCING SHALL BE INSTALLED IN ALTERNATE COURSES OF MASONRY.
- PROVIDE REINFORCED BOND BEAMS AND VERTICAL REINFORCING AS CALLED FOR ON THE DRAWINGS.
- GROUT FOR BOND BEAMS AND CORE FILL AT VERTICAL REINFORCING BARS SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- ALL REINFORCING BARS USED IN MASONRY SHALL BE GRADE 60 CONFORMING TO ASTM A-615. ALL LAP SPLICES SHALL BE A MIN. 48 BAR DIAMETERS. LOW LIFT GROUT CONSTRUCTION (5'-0" MAX. HEIGHT PER LIFT).
- MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6-95)" PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DRAWINGS.
- ALL REINFORCEMENT SHALL BE CONTINUOUS UNLESS OTHERWISE NOTED. PROVIDE LONGEST PRACTICAL LENGTHS TO MINIMIZE SPLICES.
- ALL BLOCK CORES CONTAINING REINFORCEMENT SHALL BE GROUTED SOLID. ALL REINFORCEMENT, INCLUDING DOWELS SHALL BE ACCURATELY PLACED, SUPPORTED AND TIED. PLACE VERTICAL REINFORCEMENT IN MIDDLE OF CORES AND OFFSET TO CLEAR STRUCTURAL STEEL WHERE REQUIRED. MASONRY INSERTS, INSULATION INSERTS, IF USED, SHALL BE REMOVED FROM MASONRY CORES WHERE VERTICAL REINFORCING OCCURS.
- PROVIDE VERTICAL CONTROL JOINTS AT THE LESSER OF 25 FT. O/C OR 15 TIMES HEIGHT (LOCATE VERTICAL JOINT AT JAMB OF AN OPENING WHEN POSSIBLE). HORIZONTAL REINFORCING SHALL BE DISCONTINUOUS ACROSS JOINTS AT ALTERNATE REINFORCING COURSES. (HORIZONTAL JOINT REINFORCING SHALL BE CONTINUOUS ACROSS JOINTS AT 32" O/C VERTICAL).
- WHERE VERTICAL REINFORCING IS TO PASS THROUGH MASONRY BOND BEAMS, PROVIDE MASONRY UNITS PREFABRICATED WITH SLOTTED BOTTOM SHELLS OR PRE-DRILL BOTTOM SHELL AS REQUIRED.
- STEEL LADDER-TYPE REINFORCEMENT FOR USE IN HORIZONTAL BED JOINTS OF ALL WALL UNITS SHALL BE PREFABRICATED FROM COLD DRAWN STEEL WIRE CONFORMING TO ASTM SPECIFICATION A-82 AND SHALL CONSIST OF TWO 3/16" DIAMETER DEFORMED LONGITUDINAL STEEL RODS WELDED AT 16" INTERVALS TO A CONTINUOUS DIAGONAL CROSS ROD FORMING A TRUSS DESIGN.
- OUT TO OUT SPACING OF SIDE RODS SHALL BE APPROXIMATELY 2" LESS THAN THE NOMINAL THICKNESS OF THE WALL OR WYTHE.
- CROSS RODS SHALL NOT BE LESS THAN No. 9 GAUGE.
- PREFABRICATED OR JOB FABRICATED CORNER AND TEE SECTIONS SHALL BE USED TO FORM CONTINUOUS REINFORCEMENT AROUND CORNERS.
- HORIZONTAL LADDER-TYPE WALL REINFORCEMENT SHALL BE USED IN BED JOINTS 16" O/C VERT. IN ALL MASONRY WALLS STARTING AT TOP FIRST BASE COURSE AND IN THE FIRST AND SECOND BED JOINTS ABOVE LINTELS AND BELOW SILL IN WALL OPENINGS EXTENDING 2 FEET BEYOND JAMBS.
- PROVIDE GALVANIZED WIRE POSITIONERS SPACED AT NOT MORE THAN 10 FEET. LOCATE THE FIRST POSITIONER WITHIN 40 INCHES OF THE TOP OF THE FOUNDATION.
- GENERAL CONTRACTOR SHALL COORDINATE THE LOCATIONS OF VERTICAL REINFORCING FROM FOUNDATION, WITH VERTICAL REINFORCING OF MASONRY WALL.

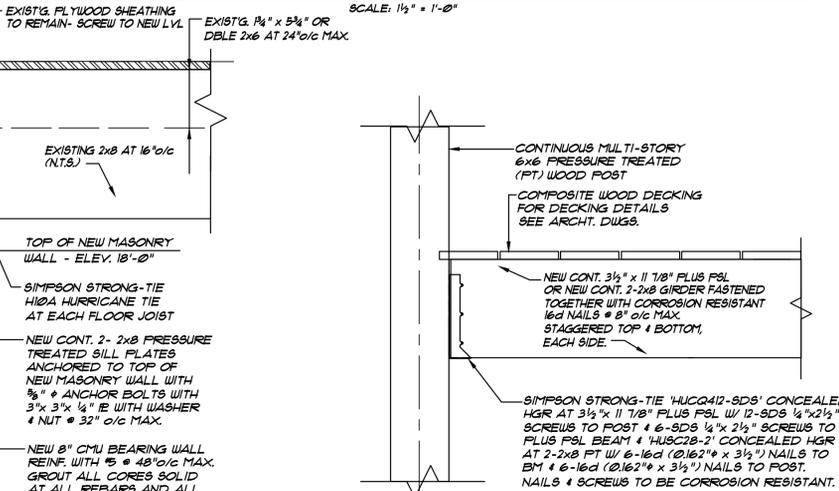
## K. DIMENSIONS:

- THE CONTRACTOR SHALL COORDINATE THE DIMENSIONS AND LOCATIONS OF THE ROOF, FLOOR & WALL OPENINGS SO THE FRAMING PROPERLY FITS THE REQUIREMENTS OF ALL TRADES.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS SHOWN ON THE DRAWINGS PRIOR TO ANY FABRICATION AND INSTALLATION OF ANY NEW MATERIALS. IF ANY DISCREPANCIES ARE FOUND BETWEEN ACTUAL CONDITIONS AND THESE DRAWINGS NOTIFY ARCHITECT AND/OR ENGINEER FOR FURTHER INSTRUCTIONS.

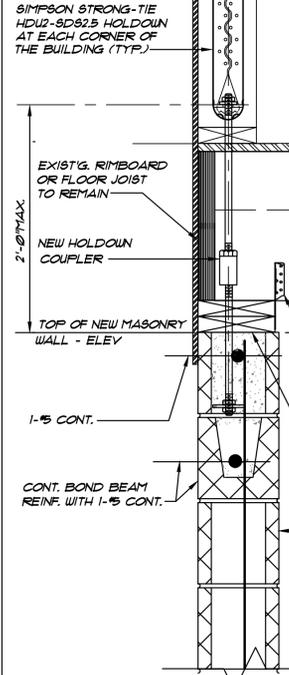


**TYPICAL CONNECTION ASSEMBLY DETAIL AT NEW & EXIST'G WOOD & CONTINUOUS LEDGER**  
 SCALE: 1/2" = 1'-0"

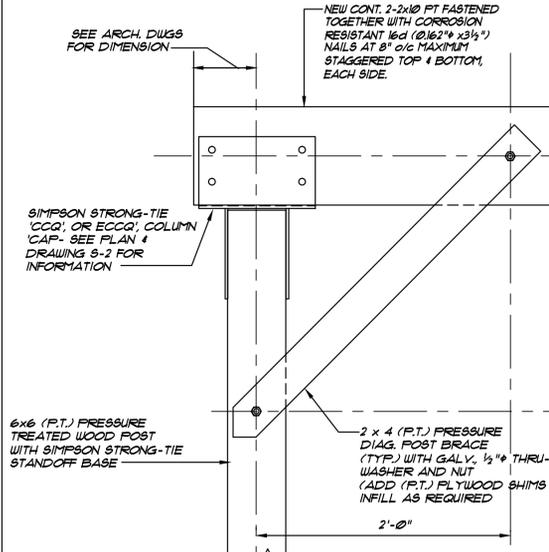
**TYPICAL ANCHORAGE DETAIL OF EXISTING STUD WALL TO EXISTING/NEW RIM BOARD OR FLOOR JOIST**  
 SCALE: 1/2" = 1'-0"



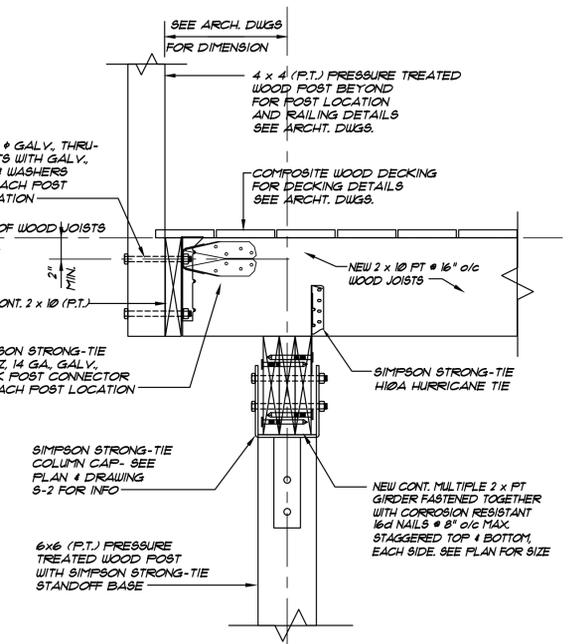
**TYPICAL BEAM TO CONT. MULTI-STORY WOOD POST CONNECTION DETAIL**  
 SCALE: 1/2" = 1'-0"



**TYPICAL DETAIL AT NEW SIMPSON STRONG-TIE HOLD-DOWN LOCATION**  
 SCALE: 1/2" = 1'-0"



**TYPICAL DIAGONAL POST BRACE DETAIL @ NEW WOOD DECK & STAIR LANDINGS**  
 SCALE: 1/2" = 1'-0"



**TYPICAL CONNECTION DETAIL AT NEW WOOD DECK SUPPORT BEAM & POST AND TYPICAL DECK RAILING POST**  
 SCALE: 1/2" = 1'-0"



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REHABILITATION/RECONSTRUCTION WORK FOR:

**ROBIN MONGILLO**

APPLICANT # 2206

70 SHELL AVENUE MILFORD CT

Sheet Description:

**FOUNDATION  
AND PILE  
LOCATION  
PLAN**

Issue Dates:

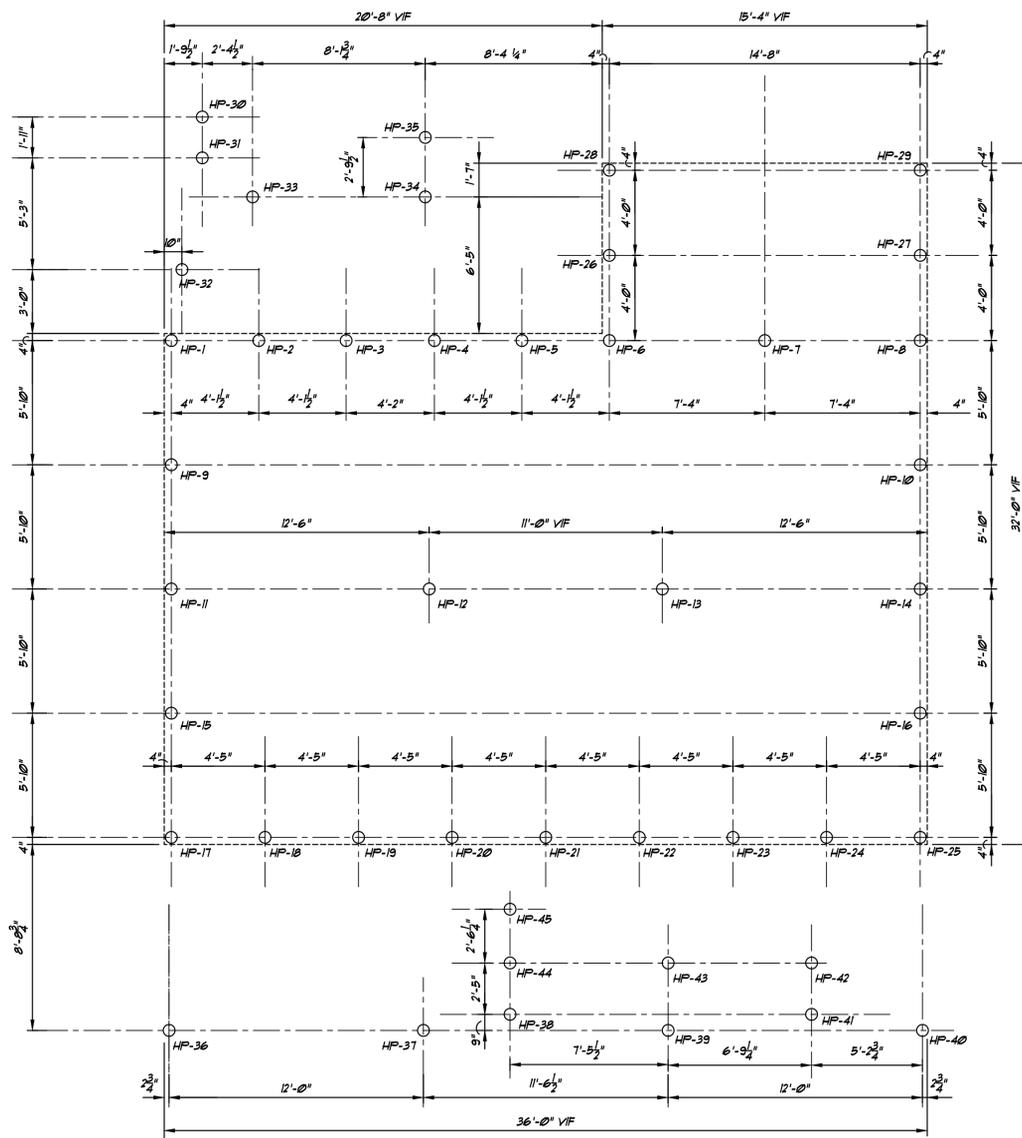
APRIL 10, 2015

Project #:  
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**S-1**



**PILE LOCATION PLAN**

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

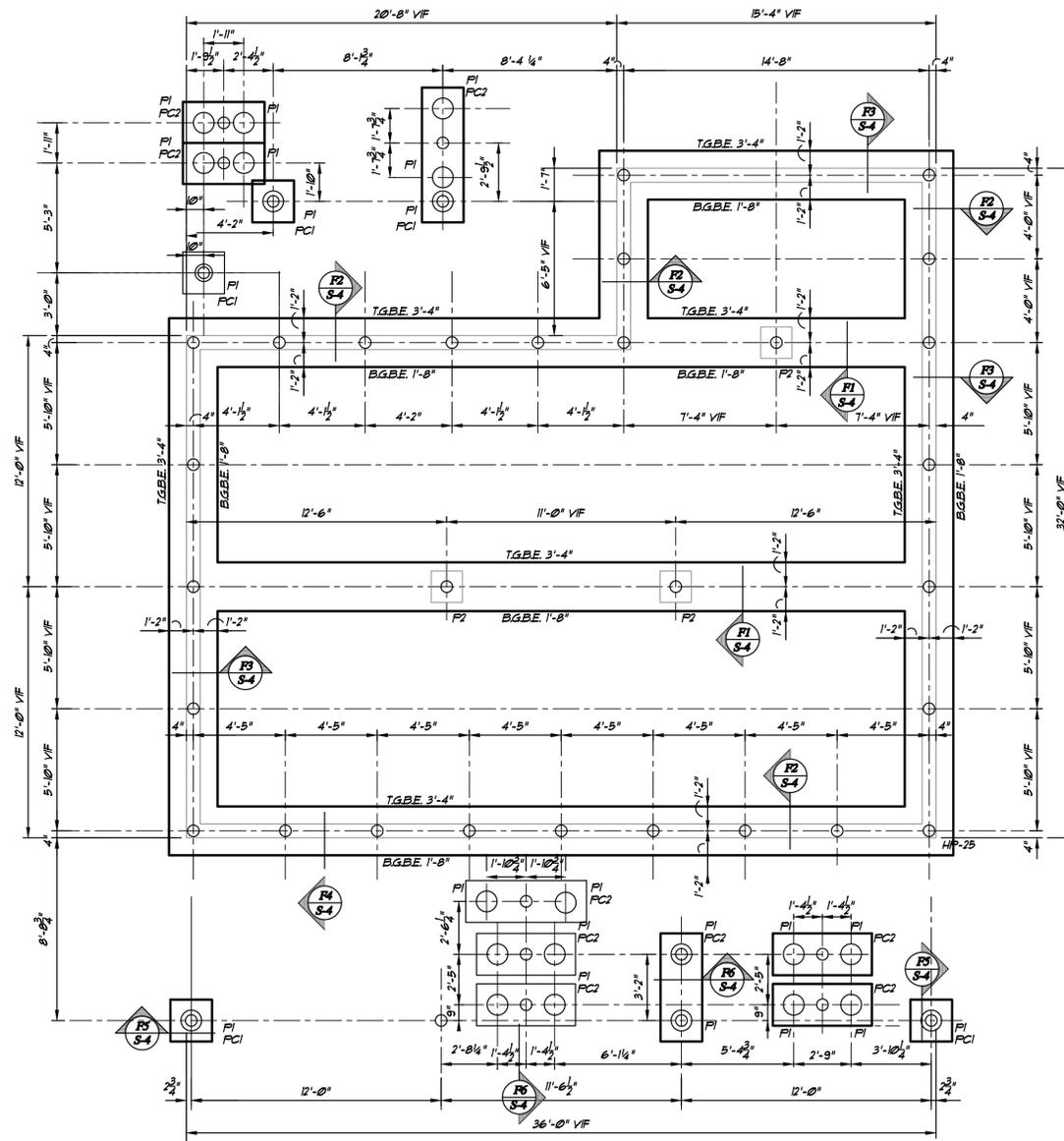
**NOTES:**

1. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO STARTING FABRICATION AND INSTALLATION OF ANY NEW MATERIALS. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES FOR POSSIBLE FURTHER INSTRUCTIONS AS MAY BE REQUIRED.
2. PILES HP-1 THRU HP-29 & HP-36 THRU HP-40 SHALL BE HELICAL (AUGER) DRILLED-IN PILES. INSTALLED CAPACITY = 24 TONS, DESIGN CAPACITY = 10 TONS.
3. PILES HP-30 THRU HP-35 & HP-41 THRU HP-45 SHALL BE HELICAL (AUGER) DRILLED-IN PILES. INSTALLED CAPACITY = 4 TONS, DESIGN CAPACITY = 3 TONS.
4. INSTALL ALL PILES WHERE SHOWN ON PLAN.

CONCRETE PIER SCHEDULE				
DESIGNATION	SIZE	REINFORCING		REMARKS
		VERTICAL	HORIZONTAL	
P-1	12" DIAM.	4 - #4	#3 @ 4"	
P-2	18" x 18"	8 - #7	#3 @ 12"	TOP 5 (2) - #3 HORIZ. TIES @ 3" o/c MAX.

**NOTES:**

1. ALL VERTICAL PIER REINFORCING SHALL BE DOUELED INTO CONCRETE GRADE BEAM OR CONCRETE PILE CAP.
2. VERTICAL PIER REINFORCING SHALL BE LAPPED MINIMUM 30 x BAR DIAMETERS.



**FOUNDATION PLAN**

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

**NOTES:**

1. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO STARTING FABRICATION AND INSTALLATION OF ANY NEW MATERIALS. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES FOR POSSIBLE FURTHER INSTRUCTIONS AS MAY BE REQUIRED.
2. PC-1 INDICATES 2'-0" x 2'-0" x 1'-2" DEEP CONCRETE PILE CAP REINFORCED WITH 4 - #4 x 1'-6" EACH WAY TOP AND BOTTOM BARS.
3. PC-2 INDICATES 2'-0" x 5'-6" x 1'-2" DEEP CONCRETE PILE CAP REINFORCED WITH 4 - #5 x 5'-0" LONG WAY TOP AND BOTTOM BARS WITH #4 @ 8" o/c MAXIMUM STIRRUPS.
4. TOP OF MASONRY WALL TO BE AT ELEVATION 10'-0", UNLESS OTHERWISE NOTED THIS T.W.E.
5. T.G.B.E. INDICATES TOP OF GRADE BEAM ELEVATION.
6. B.G.B.E. INDICATES BOTTOM OF GRADE BEAM ELEVATION.
7. NEW CONTINUOUS GRADE BEAM SHALL BE 2'-4" x 1'-8" DEEP CONCRETE BEAM REINFORCED WITH CONTINUOUS 4 - #5 HORIZONTAL TOP & BOTTOM BARS WITH #4 @ 8" o/c MAXIMUM STIRRUPS.
8. NEW FOUNDATION WALLS SHALL BE 8" CMU MASONRY WALLS REINF. WITH VERTICAL #5 @ 48" o/c MAX. FULL HEIGHT OF WALL WITH CONTINUOUS BOND BEAM AT ELEVATION 11'-4" REINFORCED WITH CONTINUOUS 1 - #5 HORIZONTAL BAR GROUT ALL CORES SOLID AT ALL REBARS. GROUT ALL MASONRY CORES BELOW GRADE SOLID.



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REHABILITATION/RECONSTRUCTION WORK FOR:

**ROBIN MONGILLO**

APPLICANT # 2206

MILFORD CT  
 70 SHELL AVENUE

Sheet Description:

**MAIN FLOOR FRAMING PLAN**

Issue Dates:  
**APRIL 10, 2015**

Project #:  
**QA1346/16**

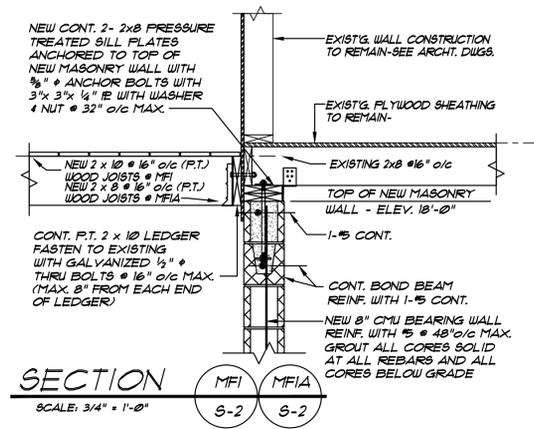
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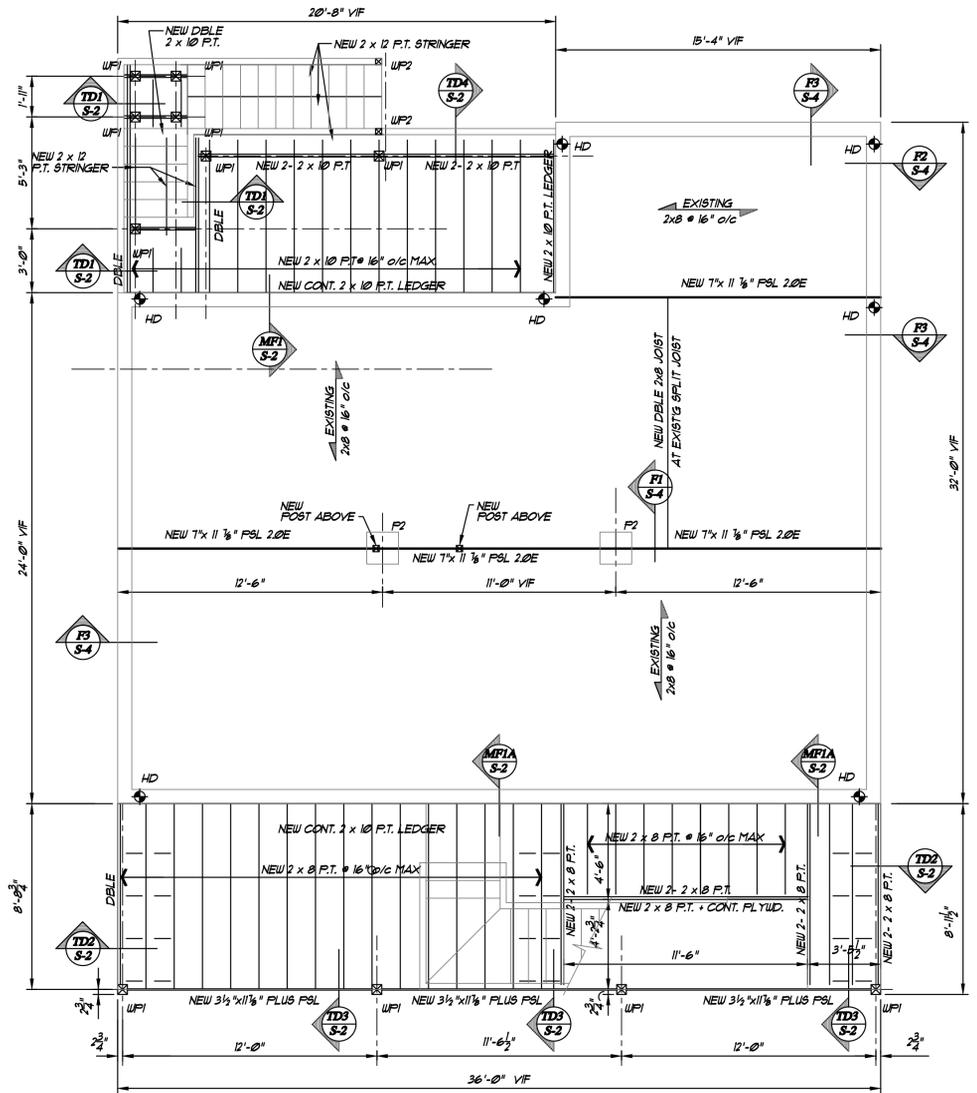
**S-2**



**PERRONE & ZAJDA ENGINEERS, LLC**  
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**SECTION**  
 SCALE: 3/4" = 1'-0"



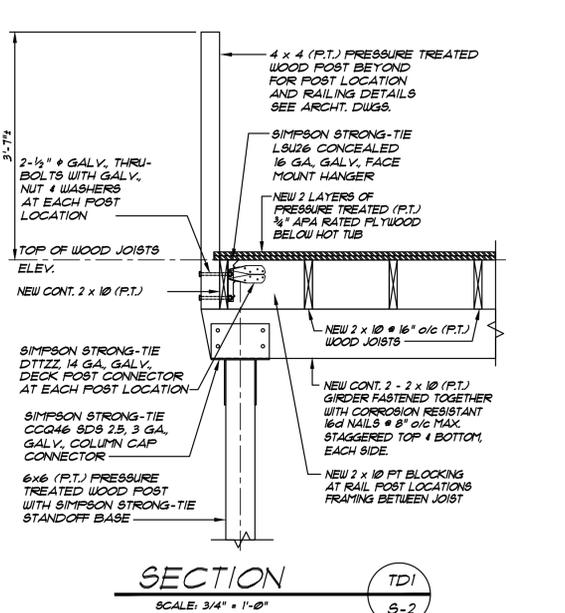
**MAIN FLOOR FRAMING PLAN**  
 SCALE: 1/4" = 1'-0"

1. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO STARTING FABRICATION AND INSTALLATION OF ANY NEW MATERIALS. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES FOR POSSIBLE FURTHER INSTRUCTIONS AS MAY BE REQUIRED.
2. ALL EXTERIOR DECK AND STAIR FRAMING SHALL BE PRESSURE TREATED (P.T.) LUMBER
3. ALL EXTERIOR DECK AND STAIR TREADS SHALL BE COMPOSITE WOOD DECKING, UNLESS OTHERWISE SHOWN ON PLAN AND/OR DETAILS.
4. INDICATES LOCATION OF NEW SIMPSON STRONG-TIE HDU2-SDS2.5 HOLDDOWN SEE TYPICAL DETAIL ON DRAWING 9-02
5. PROVIDE NEW 2x8 BLOCKING AT 16" O/C MAX. FRAMED BETWEEN EXISTING FLOOR BEAMS AT 1ST AND 2ND FLOOR JOIST SPACING AT REAR AND FRONT ENDS OF BLDG.
6. UPI INDICATES NEW 6x6 FT WOOD POST.
7. UP2 INDICATES NEW 4x4 FT WOOD POST.
8. SEE ARCH. DUGS FOR STAIR CONSTRUCTION.
9. DECK LIVE LOAD DESIGN IS 40 LBS PER SQ. FT.

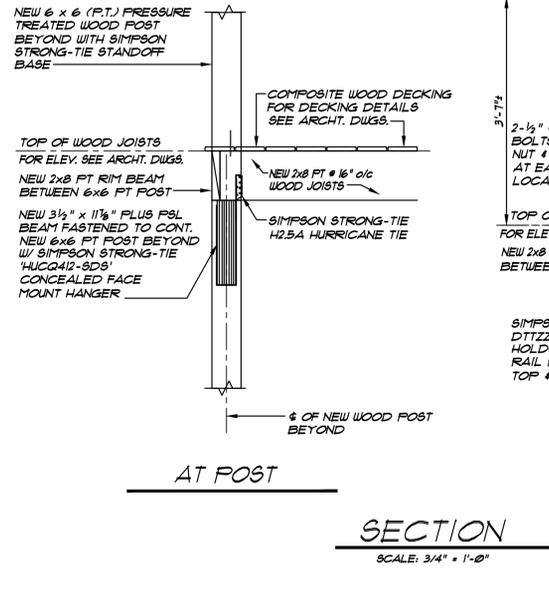
PROVIDE SIMPSON STRONG-TIE PRODUCTS AS FOLLOWS:

- TRIPLE 2x12 BEAM TO FACE OF 6x6 POSTS:**  
 'HUC212-2', 14 GA. GALVANIZED CONCEALED FACE MOUNT HANGERS WITH 22-16d NAILS TO FACE OF POST AND 10-10d NAILS TO TRIPLE BEAMS.
- 2x12 STAIR STRINGERS TO SUPPORT BEAMS:**  
 'LSC2', 18 GAGE, ADJUSTABLE STRINGER CONNECTOR WITH 10d x 1 1/2" NAILS TO BEAM, 8-10d x 1 1/2" NAILS TO STRINGER WIDE FACE AND 1-10d x 1 1/2" NAILS TO STRINGER NARROW FACE
- STAIR TREADS TO FACE OF STAIR STRINGERS:**  
 'TA102', 12 GAGE, STAIR ANGLES WITH 3-SDS 1/4" x 1 1/2" SCREWS TO STRINGER AND 4-SDS 1/4" x 1 1/2" SCREWS TO TREADS
- 6x6 FT POSTS TO CONCRETE PIERS:**  
 'CBSG66-SDS2', COLUMN BASES EMBEDDED INTO CONCRETE AND FASTENED TO POSTS WITH 14- 1/2" x 2" SCREWS
- 4x4 FT POSTS TO CONCRETE PIERS:**  
 'ABU44', STANDOFF POST BASE WITH 2- 1/2" x 1/2" GALVANIZED THRU-BOLTS TO POST AND 3/8" x 1 1/2" THREADED ASTM A307 ANCHOR RODS WITH DOUBLE HEX NUTS & SANDWICHED STEEL WASHER AT EMBEDDED ENDS INTO CONCRETE PIER
- VERTICAL HOLDDOVS TO WOOD WALL STUDS:**  
 'HDU2-SDS2.5', HOLDDOVS WITH 3/8" x 3" STEEL THREADED RODS, 1/2" x 1/2" COUPLER NUTS, 3/8" x 1-3" THREADED ASTM A307 ANCHOR RODS WITH DOUBLE HEX NUTS & SANDWICHED STEEL WASHER AT EMBEDDED ENDS INTO GROUTED MASONRY CORES. CORES AND FASTENED TO MINIMUM DOUBLE WALL STUDS WITH 6-SDS 1/4" x 2 1/2" SCREWS
- HORIZONTAL HOLDDOVS DECK RAILING POSTS & DECK JOISTS TO LEDGERS:**  
 'DTT2', 14 GA. GALVANIZED HOLDDOVS WITH 1/2" GALVANIZED STEEL THREADED RODS AND FASTENED TO DECK FLOOR JOISTS WITH 8-SDS 1/4" x 1 1/2" SCREWS
- DOUBLE CORNER BEAMS TO CORNER POSTS:**  
 'LCE4', 20 GA. GALVANIZED POST CAPS WITH 14-16d NAILS TO BEAMS & 10-16d NAILS TO POST
- 3 1/2" x 11 3/8" PLUS FSL TO 6x6 POSTS:**  
 'HUCQ412-SDS', 14GA, GALV. CONCEALED HEAVY DUTY JOIST HANGERS WITH 12-SDS 1/4" x 2 1/2" SCREWS TO POST & 6-SDS 1/4" x 2 1/2" SCREWS TO FSL BEAMS

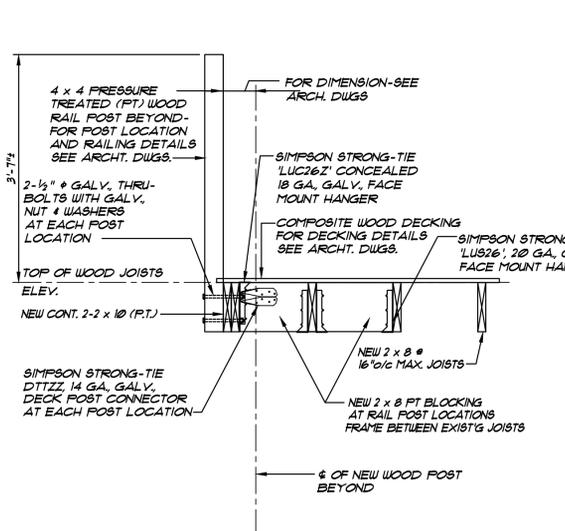
- PORCH RAFTERS OVER SUPPORT BEAMS:**  
 'H1', 18 GAGE, GALVANIZED TIES WITH 6-8d x 1 1/2" NAILS TO RAFTERS AND 4-8d NAILS TO BEAMS
- RAFTERS TO CONTINUOUS LEDGER:**  
 'LSDU28', 18 GAGE, GALVANIZED ADJUSTABLE LIGHT SLOPEABLE 'U' HANGERS WITH 10-10d NAILS TO LEDGER AND 5-10d x 1 1/2" NAILS TO RAFTERS.
- PORCH CEILING JOISTS TO LEDGER/BEAMS:**  
 'LUC26', 20 GAGE, GALVANIZED FACE MOUNT HANGERS WITH 6-16d NAILS TO LEDGER/BEAM AND 4-10d x 1 1/2" NAILS TO CEILING JOISTS.
- DOUBLE BEAMS ATOP 6x6 POSTS:**  
 'CCQ46SDS2.5', 7 GAGE, COLUMN CAPS AT INTERMEDIATE 6x6 WOOD POSTS WITH 16- 1/4" x 2 1/2" SCREWS TO BEAM AND 14- 1/4" x 2 1/2" SCREWS TO POSTS. AND 'CCQ46SDS2.5', 7 GAGE, COLUMN CAPS AT CORNER 6x6 WOOD POSTS WITH 16- 1/4" x 2 1/2" SCREWS TO BEAM AND 14- 1/4" x 2 1/2" SCREWS TO POSTS.
- BLOCKING BETWEEN RAFTERS AND CEILING JOISTS:**  
 'A34', 18 GAGE, GALVANIZED FRAMING ANGLES AT EACH END OF BLOCKING TO RAFTERS/JOISTS WITH 4- 8d x 1 1/2" NAILS PER ANGLE LEG.
- TRIPLE BEAMS ATOP 6x6 POSTS:**  
 'CCQ462-5.5SDS', 7 GAGE, COLUMN CAPS AT INTERMEDIATE 6x6 WOOD POSTS WITH 16- 1/4" x 2 1/2" SCREWS TO BEAM AND 14- 1/4" x 2 1/2" SCREWS TO POSTS. AND 'CCQ462-5.5SDS', 7 GAGE, COLUMN CAPS AT CORNER 6x6 WOOD POSTS WITH 16- 1/4" x 2 1/2" SCREWS TO BEAM AND 14- 1/4" x 2 1/2" SCREWS TO POSTS.
- JOISTS OVER SUPPORT BEAMS:**  
 'H2.5A', 18 GAGE, GALVANIZED TIES WITH 5-8d NAILS TO JOISTS AND 5-8d NAILS TO BEAMS.
- SINGLE 2x6 OR 2x8 JOISTS TO LEDGER/BEAMS:**  
 'LUS26-2', 20 GAGE, GALVANIZED FACE MOUNT HANGERS WITH 6-16d NAILS TO LEDGER/BEAM AND 4-10d x 1 1/2" NAILS TO CEILING JOISTS.
- 'LUC26-2', 18 GAGE GALVANIZED CONCEALED FACE MOUNT HANGERS W/ 6-16d NAILS TO LEDGER/BEAM AND 4-10d x 1 1/2" NAILS TO CEILING JOISTS.**
- SINGLE 2x10 JOISTS TO LEDGER/BEAMS:**  
 'LUS28', 20 GAGE, GALVANIZED FACE MOUNT HANGERS WITH 8-16d NAILS TO LEDGER/BEAM AND 6-10d x 1 1/2" NAILS TO CEILING JOISTS.
- DOUBLE 2x8 OR 2x10 BEAMS TO LEDGER/BEAMS:**  
 'LUS28-2', 18 GAGE, GALVANIZED FACE MOUNT HANGERS WITH 6-16d NAILS TO LEDGER/BEAM AND 4-10d NAILS TO DOUBLE BEAMS. AND 'HUC218-2', 14 GAGE GALVANIZED CONCEALED FACE MOUNT HANGERS WITH 18-16d NAILS TO LEDGER/BEAM AND 10-10d NAILS TO DOUBLE BEAMS.



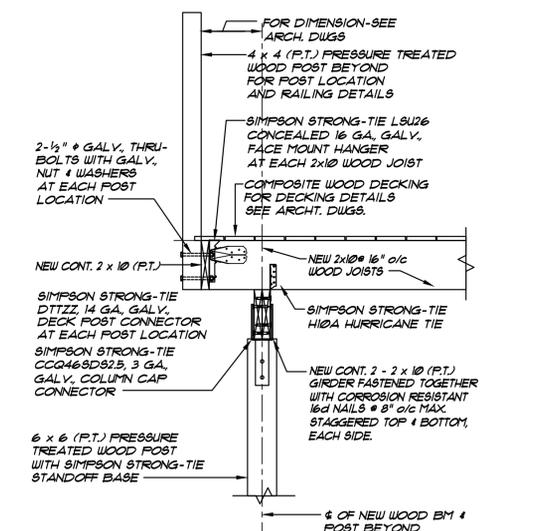
**SECTION**  
 SCALE: 3/4" = 1'-0"



**SECTION**  
 SCALE: 3/4" = 1'-0"



**SECTION**  
 SCALE: 3/4" = 1'-0"



**SECTION**  
 SCALE: 3/4" = 1'-0"



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REHABILITATION/RECONSTRUCTION WORK FOR:

**ROBIN MONGILLO**

APPLICANT # 2206

MILFORD CT

70 SHELL AVENUE

Sheet Description:

**SECOND FLOOR ROOF FRAMING PLAN**

Issue Dates:

APRIL 10, 2015

Project #:

QA1346/16

Drawn By:

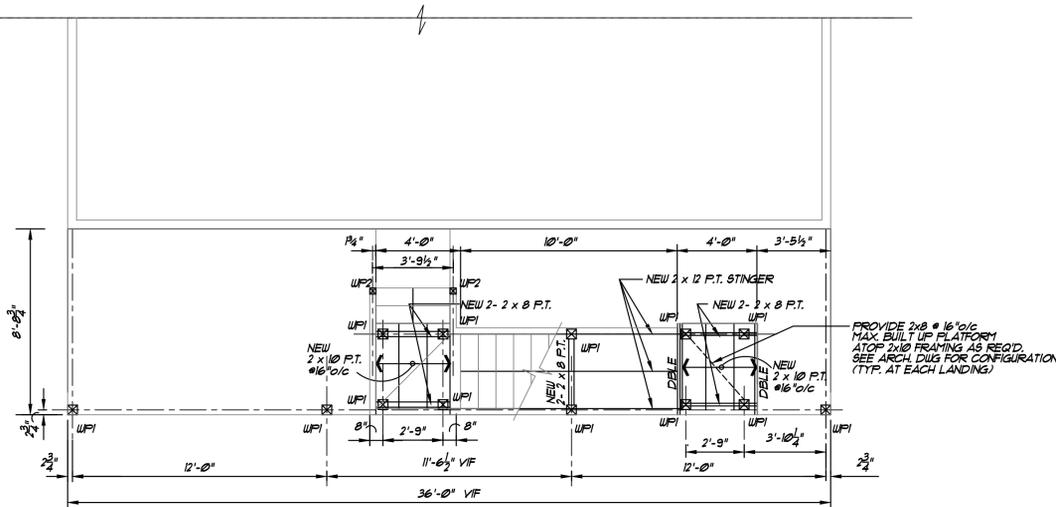
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Sheet #:

**S-3**



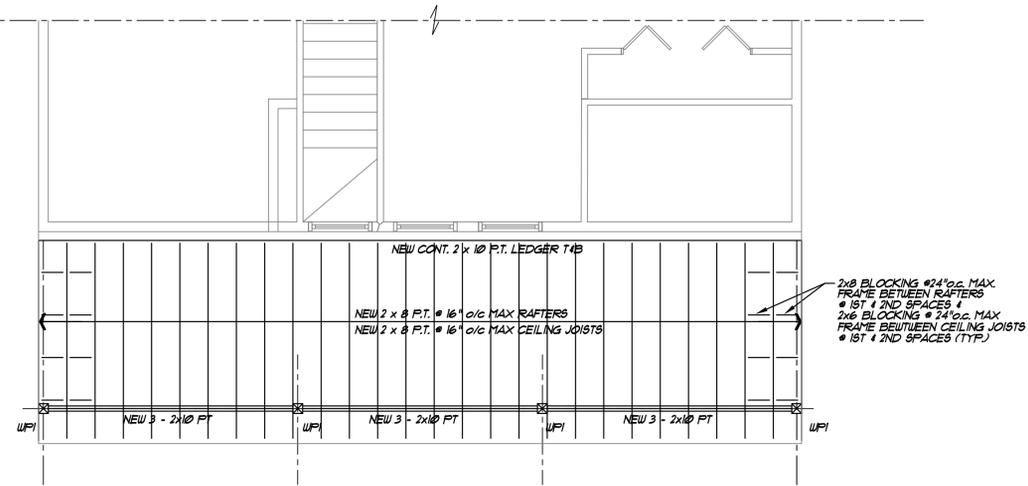
**PERRONE & ZAJDA ENGINEERS LLC**  
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**PORCH STAIR PLATFORM OF STAIR FRAMING PLAN**

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

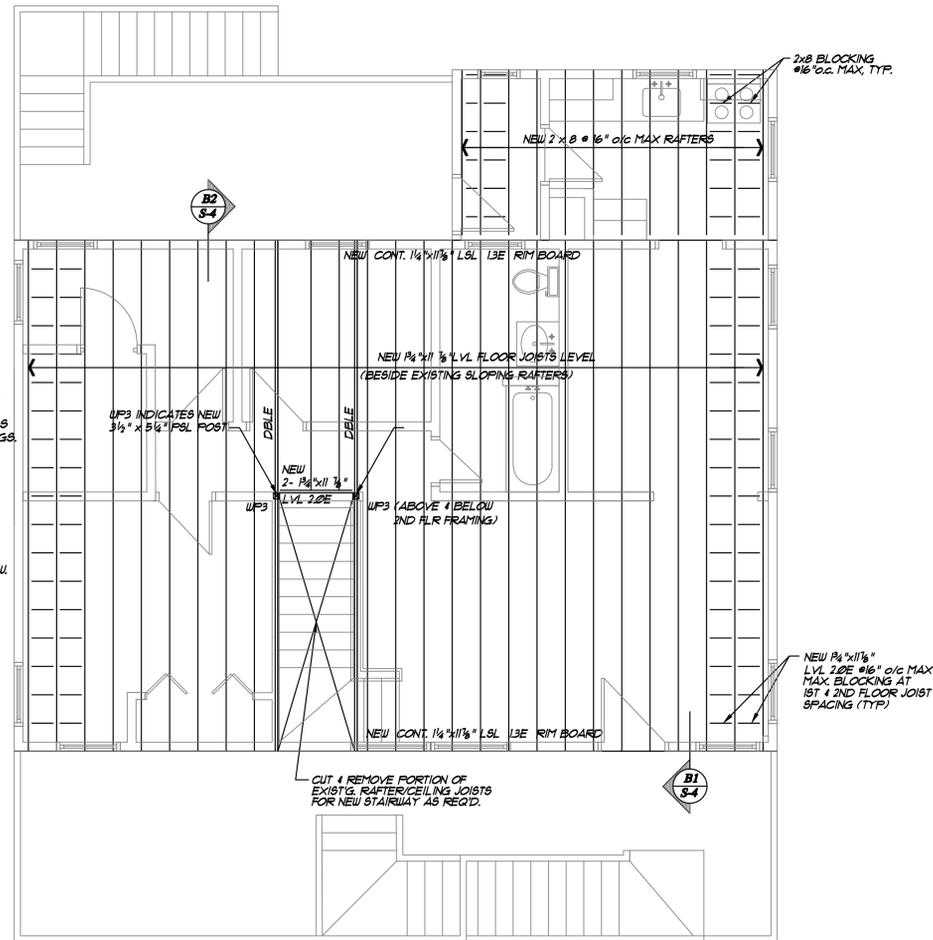
1. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO STARTING FABRICATION AND INSTALLATION OF ANY NEW MATERIALS. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES FOR POSSIBLE FURTHER INSTRUCTIONS AS MAY BE REQUIRED.
2. ALL EXTERIOR DECK AND STAIR FRAMING SHALL BE PRESSURE TREATED (P.T.) LUMBER
3. ALL EXTERIOR DECK AND STAIR TREADS SHALL BE COMPOSITE WOOD DECKING, UNLESS OTHERWISE SHOWN ON PLAN AND/OR DETAILS.
4. W/P1 INDICATES NEW 6x6 PT WOOD POST.
5. W/P2 INDICATES NEW 4x4 PT WOOD POST.
6. SEE ARCH. DWGS FOR STAIR CONSTRUCTION.
7. DECK LIVE LOAD DESIGN IS 40 LBS PER SQ. FT.



**PORCH ROOF FRAMING PLAN ( ALTERNATE)**

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

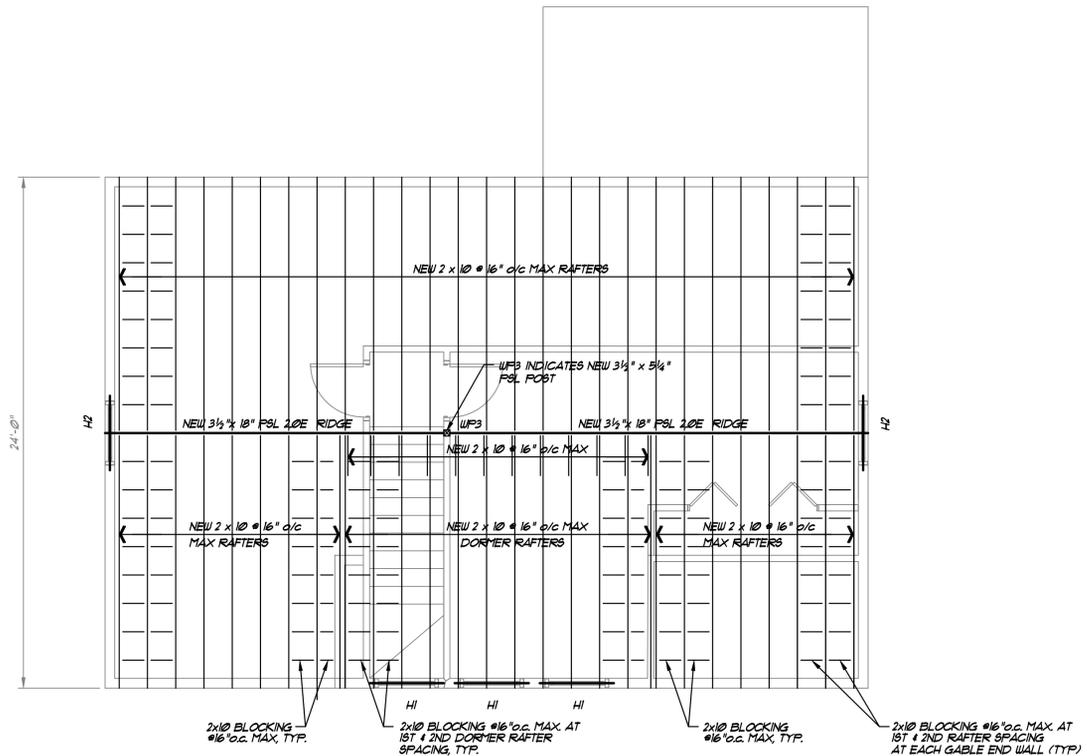
1. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO STARTING FABRICATION AND INSTALLATION OF ANY NEW MATERIALS. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES FOR POSSIBLE FURTHER INSTRUCTIONS AS MAY BE REQUIRED.
2. PORCH ROOF DECK TO BE 3/4" APA STRUCTURAL RATED SHEATHING NAILED TO FRAMING WITH 8d NAILS AT 6" o.c. MAXIMUM.
3. FOR TOP OF PORCH BEAM ELEVATION- SEE ARCHITECTURAL DRAWINGS.
4. PORCH ROOF LIVE LOAD DESIGN IS 30 LBS PER SQ. FT.
5. WIND LOAD FOR 3 SECOND GUST IS 100 MPH.
6. PROVIDE FULL DEPTH BLOCKING AT 24" o.c. MAXIMUM, FRAMED BETWEEN 1ST AND 2ND SPACES OF PORCH RAFTERS AND CEILING JOISTS.
7. WOOD FRAMING TO BE DOUGLAS FIR #2 OR BETTER.
8. STRUCTURAL PLYWOOD SHALL CONFIRM TO REQUIREMENTS OF AMERICAN PLYWOOD ASSOCIATION (APA) EXPOSURE. PANEL SPACING TO BE 1/16" AT ENDS - 1/8" AT EDGES, UNLESS OTHERWISE NOTED, STAGGERED JOINTS.
9. FOR CONFIGURATION OF PORCH WOOD RAFTERS AND CEILING JOISTS, WORKING POINT DIMENSIONS, AND BOTTOM OF CEILING JOIST AND CARRYING BEAM ELEVATIONS, SEE ARCHITECTURAL DRAWINGS.
10. PORCH FRAMING TO BE PRESSURE TREATED (PT).
11. W/P1 INDICATES 6x6 PT WOOD POSTS.



**SECOND FLOOR FRAMING PLAN**

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

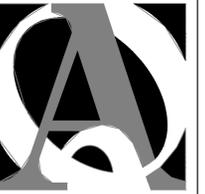
1. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO STARTING FABRICATION AND INSTALLATION OF ANY NEW MATERIALS. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES FOR POSSIBLE FURTHER INSTRUCTIONS AS MAY BE REQUIRED.
2. NEW FLOOR DECK TO BE 3/4" T&G APA STRUCTURAL RATED PLYWOOD FLOOR DECK GLUED AND NAILED TO FRAMING WITH 8d NAILS AT 6" o.c. MAXIMUM.
3. FOR TOP OF SUB-FLOOR DECK ELEVATION- SEE ARCHITECTURAL DRAWINGS.
4. FLOOR LIVE LOAD DESIGN IS 30 LBS PER SQ. FT.
5. NAIL NEW CONTINUOUS RIM BOARDS TO EACH END OF NEW LVL FLOOR JOISTS WITH 3-10d (0.148" x 3") FACE NAILS. PROVIDE SIMPSON STRONG-TIE 'A35', 18 GA., GALV. FRAMING ANGLES W/ 6-8d (0.131" x 1 1/2") NAILS AT EACH ANGLE LEG AT EACH END OF NEW LVL FLOOR JOISTS OVER EXISTING WALL OPENINGS BELOW.



**ROOF FRAMING PLAN**

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

1. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO STARTING FABRICATION AND INSTALLATION OF ANY NEW MATERIALS. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES FOR POSSIBLE FURTHER INSTRUCTIONS AS MAY BE REQUIRED.
2. ROOF DECK TO BE 3/4" APA STRUCTURAL RATED SHEATHING NAILED TO FRAMING WITH 8d NAILS AT 6" o.c. MAXIMUM.
3. FOR TOP OF NEW WALL, TOP PLATE ELEVATION- SEE ARCHITECTURAL DRAWINGS.
4. ROOF LIVE LOAD DESIGN IS 30 LBS PER SQ. FT.
5. WIND LOAD FOR 3 SECOND GUST IS 100 MPH.
6. PROVIDE FULL DEPTH BLOCKING AT 24" o.c. MAXIMUM, FRAMED BETWEEN 1ST AND 2ND SPACES OF RAFTERS AND CEILING JOISTS.
7. WOOD FRAMING TO BE DOUGLAS FIR #2 OR BETTER.
8. H1 AND H2 INDICATE 3-2x8 HEADERS.
9. STRUCTURAL PLYWOOD SHALL CONFIRM TO REQUIREMENTS OF AMERICAN PLYWOOD ASSOCIATION (APA) EXPOSURE. PANEL SPACING TO BE 1/16" AT ENDS - 1/8" AT EDGES, UNLESS OTHERWISE NOTED, STAGGERED JOINTS.
10. FOR CONFIGURATION OF PORCH WOOD RAFTERS AND CEILING JOISTS, WORKING POINT DIMENSIONS, AND BOTTOM OF CEILING JOIST AND CARRYING BEAM ELEVATIONS, SEE ARCHITECTURAL DRAWINGS.
11. NEW EXTERIOR WALLS TO BE 2x6 AT 16" o/c MAX. WOOD STUDS WITH 1/2" EXTERIOR GRADE APA STRUCTURAL RATED PLYWOOD SHEATHING FASTENED TO FRAMING WITH 8d (0.131" x 2 1/2") NAILS AT 6" o/c MAXIMUM. PROVIDE MINIMUM DOUBLE UP OF WALL STUDS AT EACH SIDE OF NEW WALL OPENINGS, EXCEPT AT OPENINGS GREATER THAN 6'-0". PROVIDE MINIMUM TRIPLE STUDS AT EACH SIDE OF NEW WALL OPENINGS. 2 JACK STUDS + 1 KING STUD. PROVIDE TRIPLE STUDS AT EACH CORNER L&P. PLYWOOD SHEATHING OVER HEADERS AND JAMBS.
12. PROVIDE 2x6 BLOCKING FRAMED BETWEEN ROOF RAFTERS & WALL STUDS AT UNSUPPORTED EDGES OF NEW PLYWOOD SHEATHING PANELS. NAIL SHEATHING TO BLOCKING AS PER NOTE #2.



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REHABILITATION/RECONSTRUCTION WORK FOR:

**ROBIN MONGILLO**

APPLICANT # 2206

MILFORD CT

70 SHELL AVENUE

Sheet Description:

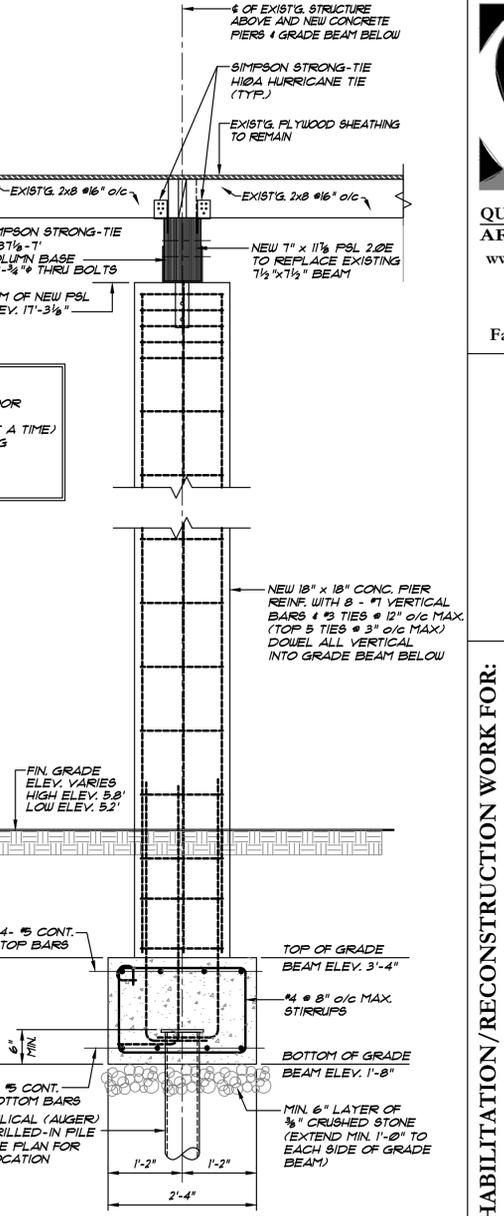
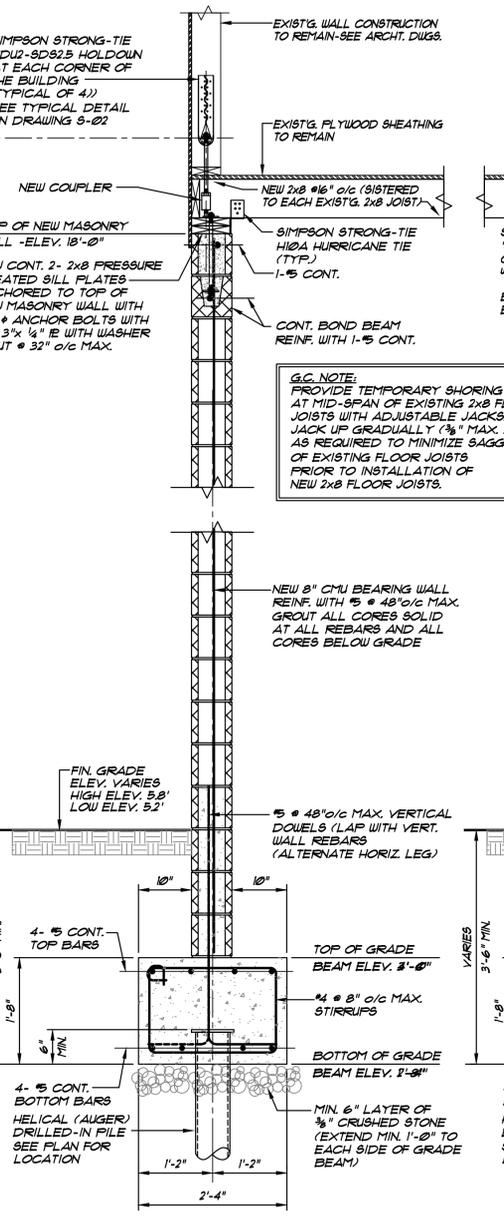
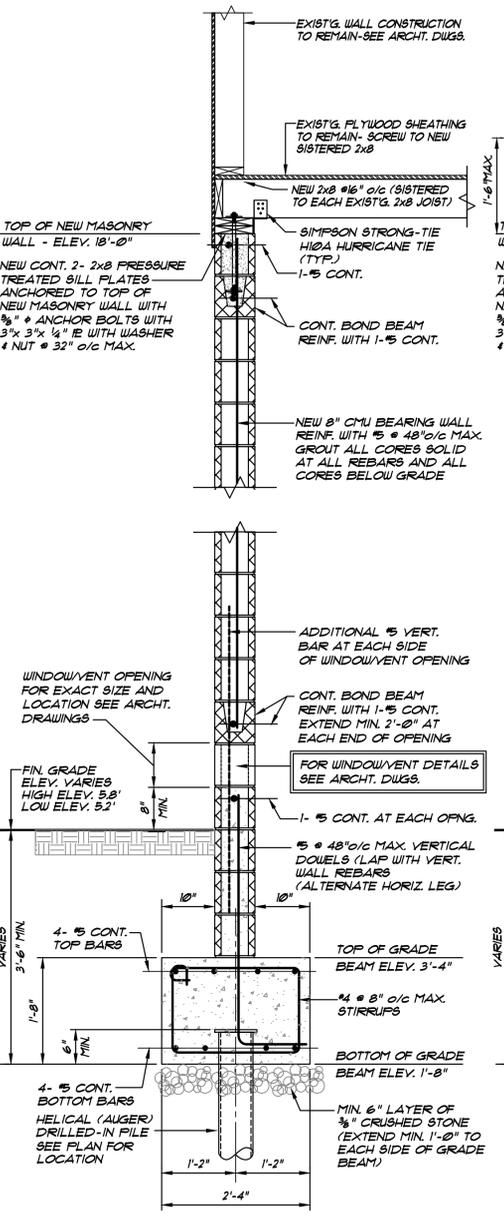
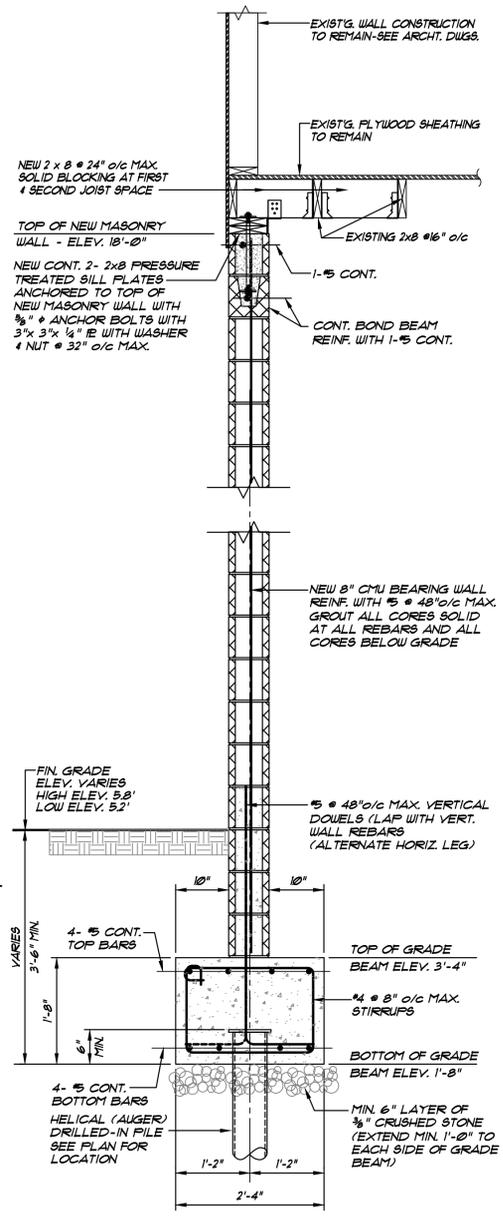
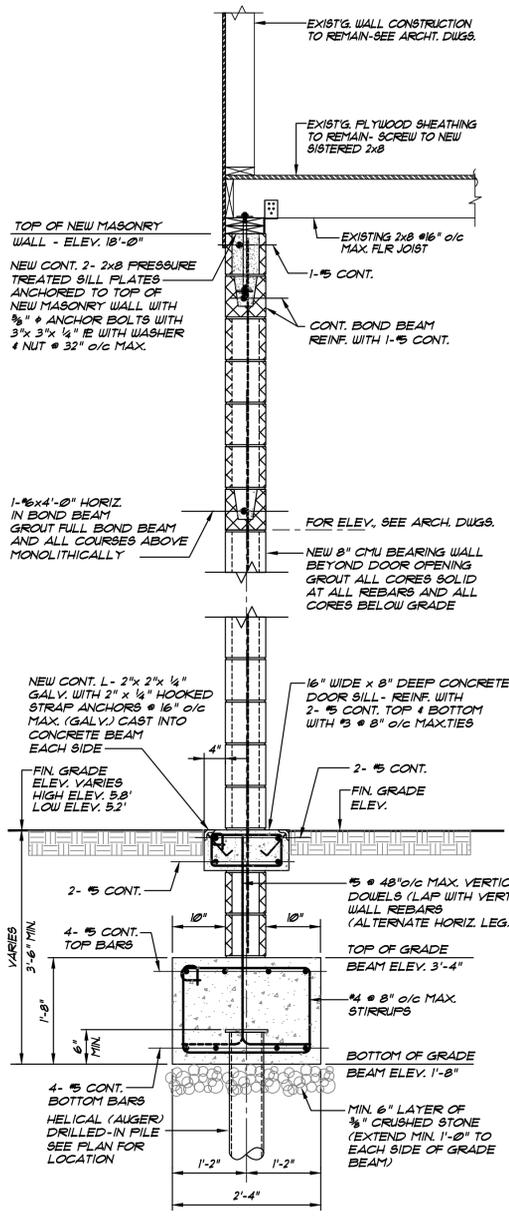
**STRUCTURAL DETAILS**

Issue Dates:  
**APRIL 10, 2015**

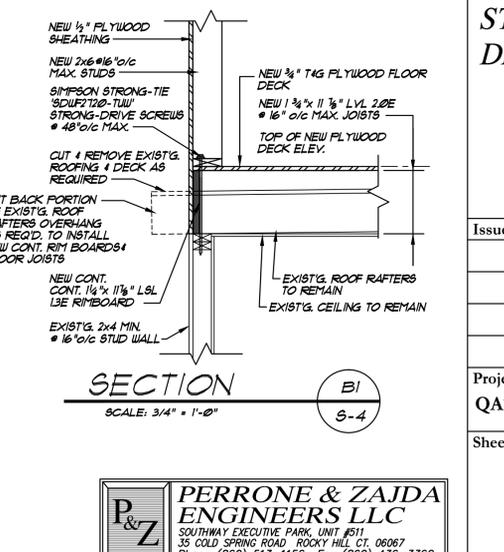
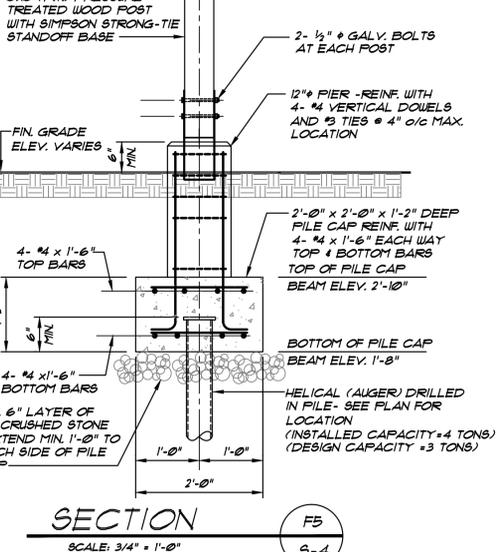
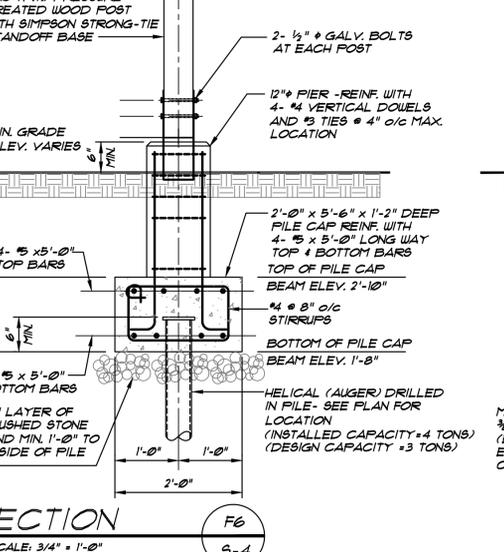
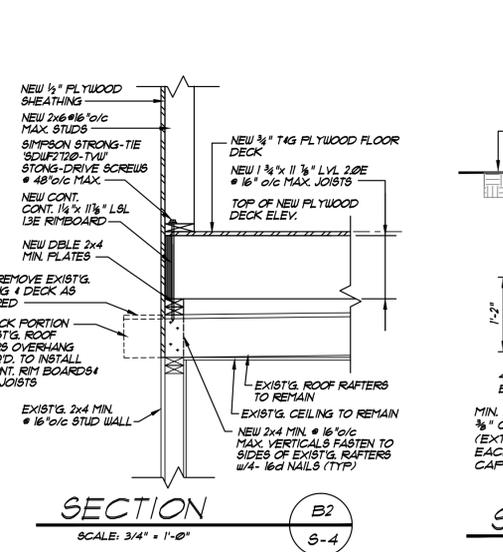
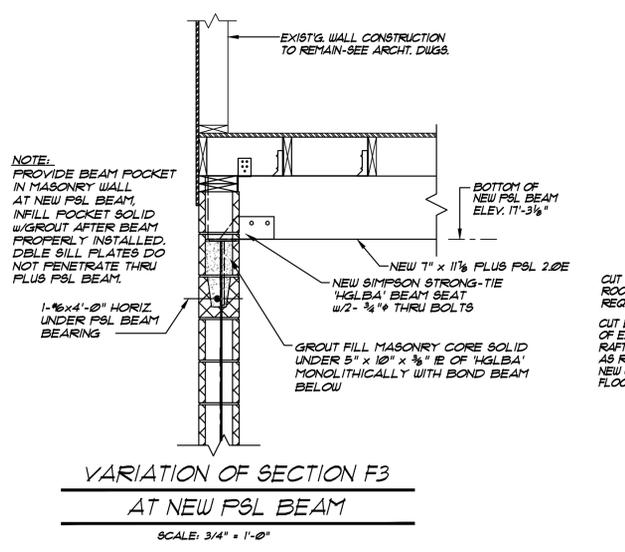
Project #: QA1346/16  
 Drawn By: B.R.P.

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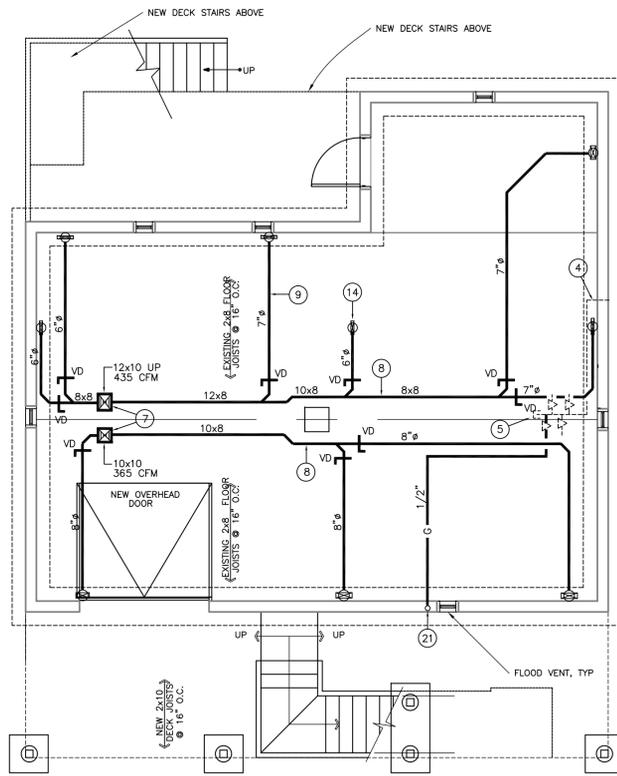
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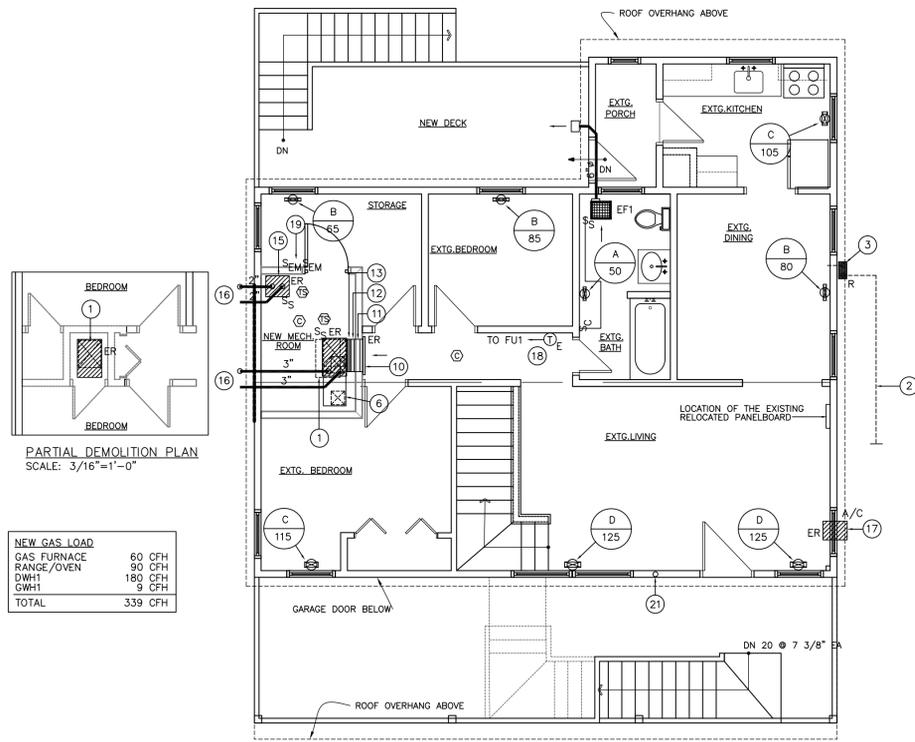
**G.C. NOTE:**  
 PROVIDE TEMPORARY SHORING AT MID-SPAN OF EXISTING 2x8 FLOOR JOISTS WITH ADJUSTABLE JACKS. JACK UP GRADUALLY (3/8" MAX. AT A TIME) AS REQUIRED TO MINIMIZE SAGGING OF EXISTING FLOOR JOISTS PRIOR TO INSTALLATION OF NEW 2x8 FLOOR JOISTS.



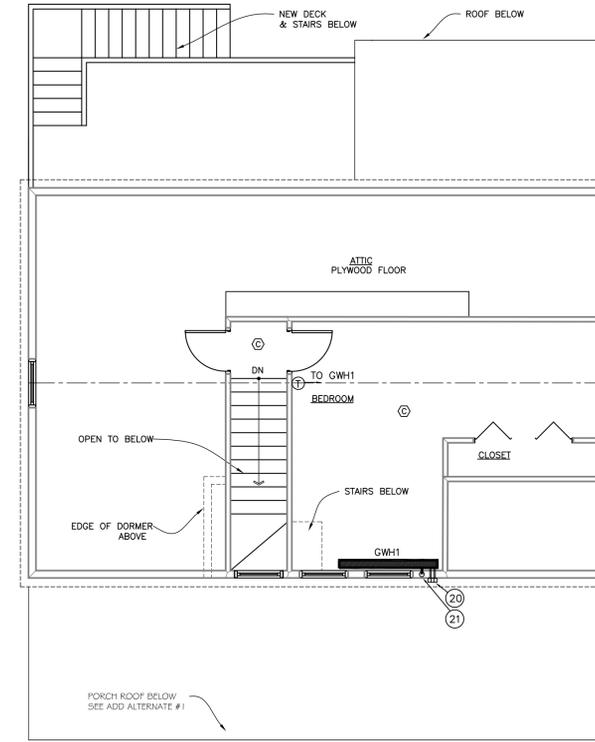
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NEW GARAGE — MECHANICAL  
SCALE: 3/16"=1'-0"



FIRST FLOOR — MECHANICAL  
SCALE: 3/16"=1'-0"



SECOND FLOOR — MECHANICAL  
SCALE: 3/16"=1'-0"

**MECHANICAL NOTES:**

1. EXISTING DOWNFLOW GAS-FIRED FURNACE "AMERICAN STANDARD", GOLD 95 SERIES, MODEL ADH2B060A9V3VB, RATED FOR 60.0 MBH GAS INPUT & 57.0 MBH NET HEATING OUTPUT, 800 CFM @ 0.6" W.C. ESP, 1/3 HP @ 120V/1 PH, TO BE DISCONNECTED, REMOVED AND STORED FOR RE-USE AT NEW INDICATED LOCATION. SUPPORT THE RELOCATED UNIT ABOVE THE FINISHED WITH FLOOR AND WALL SUPPORTS, AS REQUIRED. EXTEND EXISTING FLEXIBLE GAS PIPING AND PROVIDE NEW GAS PLUG VALVE AT UNIT.
2. EXISTING 1" BURIED GAS SERVICE TO BE VERIFIED BY THE GAS COMPANY VERSUS THE NEW GAS LOAD.
3. EXISTING GAS METER (AG-250) TO BE DISCONNECTED AND REMOVED (R) BY THE GAS COMPANY. THE SERVICE PIPING TO THE GAS METER SHALL BE CAPPED ABOVE GRADE AND CLEARLY MARKED-UP AS "GAS PIPING SERVICE" BY THE GAS COMPANY. A NEW GAS METER SHALL BE PROVIDED BY THE GAS COMPANY AT SAME LOCATION.
4. EXISTING 1-1/4" GAS SERVICE PIPING IN CRAWL SPACE SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF IN A LEGAL MANNER. AFTER THE HOUSE IS RAISED PROVIDE NEW GAS PIPING HIGH AT THE GARAGE LEVEL AND CONNECT THIS NEW GAS PIPING TO THE NEW GAS METER AND THE RELOCATED GAS MANIFOLD (SEE ITEM 5 BELOW). PROVIDE NEW MAIN PLUG SHUTOFF GAS VALVE ON GAS METER RISER AT AN ACCESSIBLE HEIGHT.
5. EXISTING 1-1/4" GAS SERVICE MANIFOLD & FLEXIBLE GAS PIPING SHALL BE TEMPORARILY STORED, AND LATER RELOCATED ABOVE THE 500 YEARS FLOOD LEVEL. RE-CONNECT THE EXISTING FLEXIBLE GAS PIPING TO THE EXISTING RANGE/OVEN AND RELOCATED FURNACE AND DOMESTIC WATER HEATER.
6. NEW 50" x 18" x 16" SUPPLY AIR INSULATED PLENUM MOUNTED 4" ABOVE THE FINISHED FLOOR, FURNISHED WITH (2) BOTTOM CONNECTIONS 12" x 10" & 10" x 10" THROUGH GARAGE TO GARAGE BELOW CONNECT THE TOP OF PLENUM TO THE GAS FURNACE SUPPLY AIR VIA A FLEXIBLE DUCTWORK CONNECTOR.
7. NEW 12"x10" AND 10"x10" INSULATED SUPPLY AIR RISERS TO THE NEW SUPPLY AIR PLENUM ABOVE IN MECHANICAL ROOM, SERVED BY THE RELOCATED GAS-FURNACE.
8. NEW INSULATED SUPPLY AIR DUCTWORK TO RUN ALONG THE STRUCTURAL BEAM IN THE GARAGE ABOVE THE 500 YEARS FLOOD LEVEL.
9. NEW INSULATED SUPPLY AIR DUCTWORK BRANCH TO RUN IN THE GARAGE ABOVE THE 500 YEARS FLOOD LEVEL (TYP). EXISTING RELOCATED RETURN AIR REGISTER.
10. NEW INSULATED RETURN AIR DUCTWORK WITH SIZE TO MATCH THE EXISTING RELOCATED RETURN AIR REGISTER. NEW FILTER HOUSING WITH 1" THICK THROWAWAY FILTER.
11. NEW FLEXIBLE DUCTWORK CONNECTOR AT EXISTING RELOCATED FURNACE.
12. NEW FLOOR BOOT WITH TRANSITION TO THE FLOOR SUPPLY AIR REGISTER ABOVE (TYP).
13. EXISTING RELOCATED DOMESTIC WATER HEATER BY THE PLUMBING CONTRACTOR "NAVEN", MODEL NPE-210A, RATED FOR 180 CFH. EXTEND FLEXIBLE GAS PIPING AND PROVIDE NEW GAS PLUG VALVE AT UNIT.
14. NEW COMBUSTION AND EXHAUST AIR PIPING (PVC SCH. 80) TERMINATED OUTSIDE AS PER THE MANUFACTURER'S INSTRUCTIONS, RECOMMENDATIONS AND WARRANTY.
15. EXISTING THRU-THE-WINDOW AIR CONDITIONING UNIT TO BE TEMPORARILY REMOVED DURING THE CONSTRUCTION WORK AND RE-INSTALLED AFTER THE WORK IS COMPLETED. EXISTING THERMOSTAT TO REMAIN.
16. EACH SERVICE EMERGENCY SHUTDOWN SWITCH TO BE WIRED IN SERIES WITH THE SERVICE SWITCH AND A THERMAL SWITCH FACTORY SET AT 165 F.
17. NEW CONCENTRIC ADJUSTABLE VENT KIT.
18. NEW 1/2" GAS PIPING IN WALL (BLACK STEEL SCHEDULE 40) WITH ACCESSIBLE PLUG SHUTOFF VALVE, DOWN IN WALL TO GARAGE LEVEL. EXTEND THE GAS PIPING TO THE EXISTING GAS MANIFOLD. MODIFY THE EXISTING GAS MANIFOLD AS REQUIRED TO RECEIVE A NEW 1/2" CONNECTION AND PROVIDE A NEW GAS PLUG SHUTOFF VALVE AT THIS LOCATION.

**SCOPE OF WORK**

1. - ALL POTENTIAL CONTRACTORS SHALL BECOME FAMILIAR WITH THE SITE CONDITIONS, PRIOR TO START ANY WORK.
2. - ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2009 INTERNATIONAL RESIDENTIAL CODE AND 2009, 2011, 2012 & 2013 CONNECTICUT AMENDMENTS TO THE STATE BUILDING AND FIRE SAFETY CODES, OTHER APPLICABLE CODES, STANDARDS, REGULATIONS, ORDINANCES, ETC., AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES AND UTILITY COMPANIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE A LICENSED MECHANICAL CONTRACTOR, AND SHALL BE RESPONSIBLE TO OBTAIN A CONSTRUCTION PERMIT AND PAY FOR ALL APPLICABLE FEES, TAXES, TESTS, ETC. NO WORK SHALL BE PERFORMED UNTIL SHOP DRAWINGS FOR ALL EQUIPMENT, DEVICES AND MAJOR MATERIALS ARE SUBMITTED AND APPROVED IN WRITING BY THE PROJECT ENGINEER.
3. - FURNISH & INSTALL ALL EQUIPMENT, DEVICES, MATERIALS, ETC., AS INDICATED, SHOWN AND SPECIFIED FOR COMPLETE OPERATIONAL SYSTEMS, APPROVED BY ARCHITECT/ENGINEER & OWNER'S REPRESENTATIVE, AND LOCAL AUTHORITIES HAVING JURISDICTION.
4. - THIS CONTRACTOR IS RESPONSIBLE TO SUBMIT TO THE ARCHITECT/ENGINEER SHOP DRAWINGS FOR ALL EQUIPMENT & DEVICES, MATERIALS, ETC., AND FURTHER OBTAIN ALL NECESSARY APPROVALS, PRIOR TO STARTING THIS WORK.
5. - THIS CONTRACTOR SHALL INCLUDE IN HIS/HER WORK, WITHOUT EXTRA COST TO OWNER, ANY LABOR, MATERIAL APPARATUS AND DRAWING ADDITIONS TO THE CONTRACT DRAWINGS AND SPECIFICATIONS IN ORDER TO COMPLY WITH THE CURRENT APPROVED CODES, STANDARDS, REGULATIONS, RULES AND ORDINANCES, EITHER SHOWN OR NOT ON THESE DRAWINGS AND SPECIFICATIONS.
6. - ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS, RECOMMENDATIONS AND WARRANTY, WITH ALL REQUIRED CLEARANCES FOR MAINTENANCE AND SERVICE.
7. - PROVIDE DEMOLITION WORK TO THE EXTENT INDICATED, IMPLIED AND REQUIRED. ALL EXISTING DUCTWORK IN THE CRAWL SPACE SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF IN A LEGAL MANNER. REFER TO DEMOLITION UNDER CONSTRUCTION NOTES ON THIS DRAWING.
8. - FURNISH AND INSTALL NEW DUCTWORK, FITTINGS, SUPPORTS, VOLUME DAMPERS, ETC., AS INDICATED AND REQUIRED COMPLETE OPERATIONAL SYSTEMS. THE DUCTWORK SHALL BE FABRICATED OF GALVANIZED STEEL G90, IN STRICT ACCORDANCE WITH THE LATEST APPROVED "SMACNA" STANDARDS. FURNISH AND INSTALL LOW LEAKAGE VOLUME DAMPERS WHERE INDICATED, AT ALL TAKEOFFS AND WHERE REQUIRED FOR AIR BALANCING.
9. - FURNISH AND INSTALL NEW GAS PIPING, VALVES, SUPPORTS, ETC., TO THE EXTENT INDICATED & REQUIRED. THE GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED JOINTS. GAS PLUG OR BALL VALVES SHALL BE 150 PSI WOG BRONZE BODY, STRAIGHTAWAY PATTERN, SQUARE HEAD, THREADED ENDS. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION. SLOPE PIPING TO DRAIN AT LOW POINTS. PIPE HANGERS AND SUPPORTS TO CONFORM TO ASME B31.9 AND MSS SP58. FURNISH & INSTALL EXHAUST & COMBUSTION AIR PIPING, PVC SCHEDULE 80, FOR THE RELOCATED FURNACE AND DOMESTIC WATER HEATER, AS INDICATED ON DRAWINGS.
10. - FURNISH & INSTALL DUCTWORK INSULATION TO MEET 2009 IECC REQUIREMENTS, AS FOLLOWS:
  - INSULATE ALL EXPOSED DUCTWORK IN THE GARAGE WITH (2) LAYERS OF 2" THICK DUCT WRAP INSULATION FURNISHED WITH AN ADDITIONAL VAPOR BARRIER.
  - INSULATE ALL OTHER SUPPLY & RETURN DUCTWORK IN THE GARAGE WITH (1) LAYERS OF 1" THICK DUCT WRAP INSULATION FURNISHED WITH AN ADDITIONAL VAPOR BARRIER.
11. - COVER ALL EXPOSED GAS PIPING, FITTINGS & SUPPORTS IN THE GARAGE WITH TWO (2) COATS OF PRIMER AND (2) LAYERS OF YELLOW ENAMEL WEATHER RESISTANT PAINT.
12. - RE-USE THE EXISTING CONTROLS AND PROVIDE NEW CONTROLS FOR THE NEW PROVIDED EQUIPMENT AS INDICATED AND REQUIRED FOR COMPLETE OPERATIONAL SYSTEMS. CHECK EXISTING CONTROLS AND PROVIDE ANY NECESSARY REPAIRS, AS REQUIRED. ALL NEW CONTROL WIRING SHALL BE COPPER, TWISTED PAIR SHIELDED TYPE #16 AWG OR BETTER. PROVIDE ALL NECESSARY DEMONSTRATION AND TRAINING TO THE OWNER'S REPRESENTATIVE(S) FOR COMPLETE OPERATIONAL SYSTEMS.
13. - HIRE THE SERVICES OF A CERTIFIED AIR BALANCING ORGANIZATION TO AIR BALANCE THE AIR DIFFUSION DEVICES TO WITHIN 10% OF THE INDICATED DESIGN AIR FLOWS. FURNISH A COPY OF THE FINAL AIR BALANCING REPORT TO THE ARCHITECT / ENGINEER AT PROJECT'S COMPLETION FOR REVIEW AND COMMENT.
14. - FURNISH & INSTALL EQUIPMENT NAMEPLATES, PIPE MARKERS, VALVE TAGS, ETC., IN COMPLIANCE WITH ANSI A13.1.
15. - PROVIDE THREE (3) SETS OF "AS-BUILT" DRAWINGS TO ARCHITECT/ENGINEER AT PROJECT COMPLETION.
16. - THIS PROJECT SHALL BE DEEMED COMPLETE ONLY AFTER IS THOROUGHLY INSPECTED, DEMONSTRATED TO AND APPROVED IN WRITING BY THE LOCAL AUTHORITIES HAVING JURISDICTION, OWNER'S REPRESENTATIVE AND ARCHITECT/ENGINEER. ALL WARRANTIES SHALL START AFTER RECEIVING THESE APPROVALS.

**NEW HVAC EQUIPMENT**

- GAS-FIRED BASEBOARD WALL HEATER**  
 GWH1 GAS-FIRED BASEBOARD WALL HEATER, EQUAL TO "COZY", MODEL BBT103, RATED FOR 9,000 BTU/HR @ 80.4% 120V/1 PH, UL LISTED AND AGA APPROVED, 72" L x 5-3/8" DEEP x 9-3/8" H, 67 LBS OPERATING WEIGHT, FURNISHED WITH 24VAC REMOTE WALL MOUNTED ELECTRONIC PROGRAMMABLE THERMOSTAT, DIRECT SPARK IGNITION AND ADJUSTABLE THROUGH THE WALL CONCENTRIC VENT KIT.
- BATHROOM EXHAUST FAN**  
 EF1 EXHAUST FAN, CEILING CABINET TYPE, EQUAL TO "GREENHECK", MODEL SP-B110-QD QD, RATED FOR 90 CFM @ 525" W.C. TSP, 80 WATTS @ 120V/1 PH, UL LISTED, FURNISHED WITH A WALL HOODED CAP MODEL WC-6 AND A WALL MOUNTED SPEED CONTROLLER.
- AIR DIFFUSION DEVICES**  
 A FLOOR SUPPLY REGISTER, EQUAL TO "LIMA", SERIES 40, SIZE 2-1/4"x10", STEEL CONSTRUCTION, DURA-BEIGE FINISH.  
 B SAME AS ABOVE, SIZE 2-1/4"x12".  
 C SAME AS ABOVE, SIZE 4"x10".  
 D SAME AS ABOVE, SIZE 4"x12".
- NOTES:**  
 1. - INSTALL THE AIR DIFFUSION DEVICES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, RECOMMENDATIONS AND WARRANTY.

**MECHANICAL LEGEND AND ABBREVIATIONS**

- EXISTING DUCTWORK/PIPING/EQUIPMENT TO REMAIN (E)
- EXISTING DUCTWORK/PIPING/EQUIPMENT TO BE REMOVED (R)
- NEW DUCTWORK/PIPING/EQUIPMENT
- FU# FURNACE, GAS-FIRED
- GWH# GAS-FIRED BASEBOARD WALL HEATER, GAS-FIRED
- EF# EXHAUST FAN
- DWH# DOMESTIC WATER HEATER
- G GAS PIPING
- V VOLUME DAMPER
- D DESIGNATION
- 125 AIR DIFFUSION DEVICE
- 125 AIR FLOW, IN CFM
- CO CARBON MONOXIDE DETECTOR/CONTROLLER
- TS THERMAL SWITCH (SET AT 165 F)
- SW SERVICE SWITCH
- SC SPEED CONTROLLER
- ES EMERGENCY SHUTDOWN SWITCH
- ER EXISTING TO REMAIN
- R EXISTING TO BE RELOCATED
- Ø EXISTING TO BE REMOVED
- ⊙ CONNECT TO EXISTING



**GENERAL NOTES**

1. - THE INFORMATION SHOWN ON THIS DRAWING IS BASED UPON THE INFORMATION SHOWN ON THE BUILDING PLANS AND LIMITED FIELD INVESTIGATIONS AND MAY OR MAY NOT REFLECT ACTUAL FIELD CONDITIONS. THIS CONTRACTOR SHALL VERIFY THE INFORMATION INDICATED ON THIS DRAWING AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO SUBMITTING HIS BID.
2. - THIS CONTRACTOR IS REQUIRED TO PERFORM THIS WORK IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, ETC., AND TO MEET THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND OWNER, WHETHER OR NOT SPECIFICALLY INDICATED OR SPECIFIED ON THIS DRAWING.
3. - ALL PENETRATIONS THRU FLOOR AND WALLS SHALL BE FIRE STOPPED WITH "THOMAS AND BETTS" - FLAMESAFE, TYPE FST FIRESTOP COMPOUND OR APPROVED EQUIVALENT, CONFORMING TO ASME E814/UL179.

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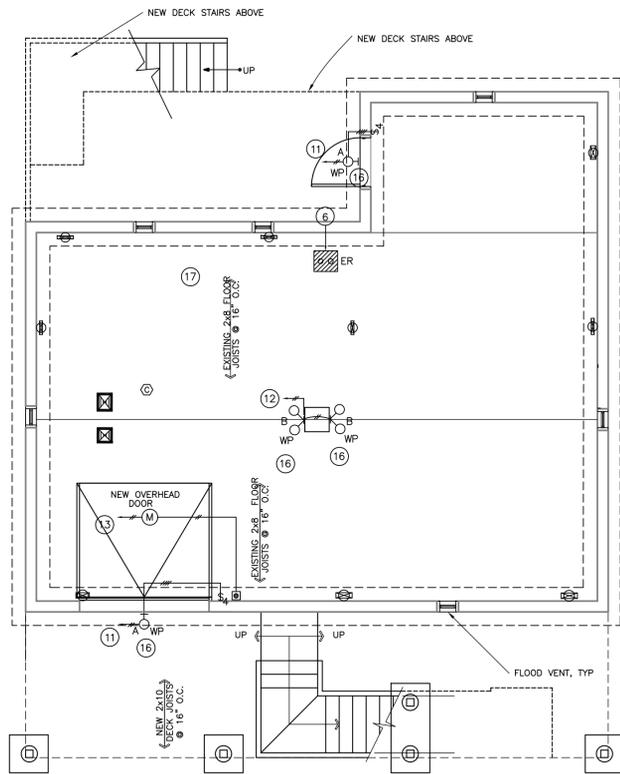
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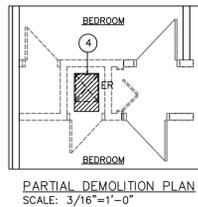
**CONTRACTOR:**  
**REHABILITATION/RECONSTRUCTION WORK FOR:**  
**ROBIN MONGILLO**  
 APPLICANT #2206  
 70 SHELL AVE.,  
 MILFORD, CT  
**MECHANICAL**

**Project:** REHABILITATION/RECONSTRUCTION WORK FOR:  
**ROBIN MONGILLO**  
 APPLICANT #2206  
 70 SHELL AVE.,  
 MILFORD, CT  
**MECHANICAL**

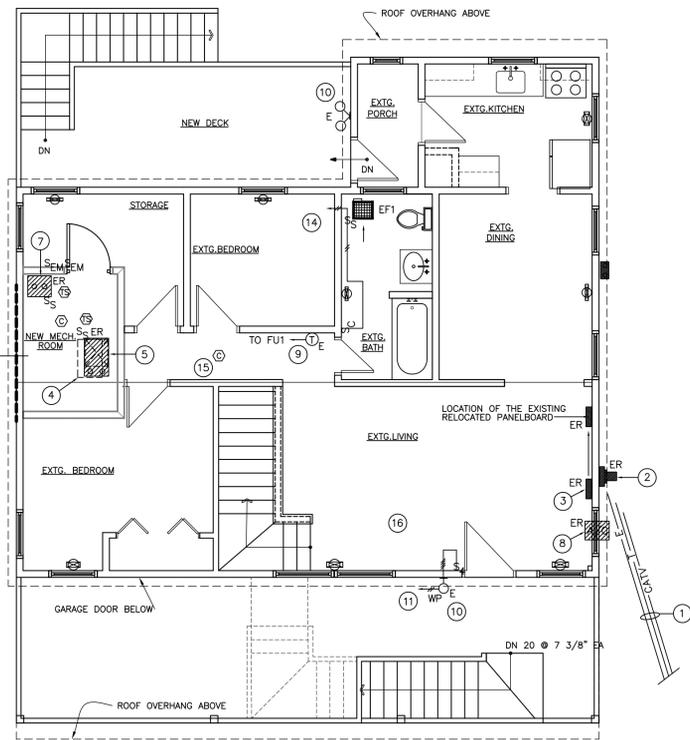
drawn by: DTP  
 scale: NOTED  
 date: April 10, 2015  
 checked by: DTP  
 project number: DTP14036  
 drawing number: M-1



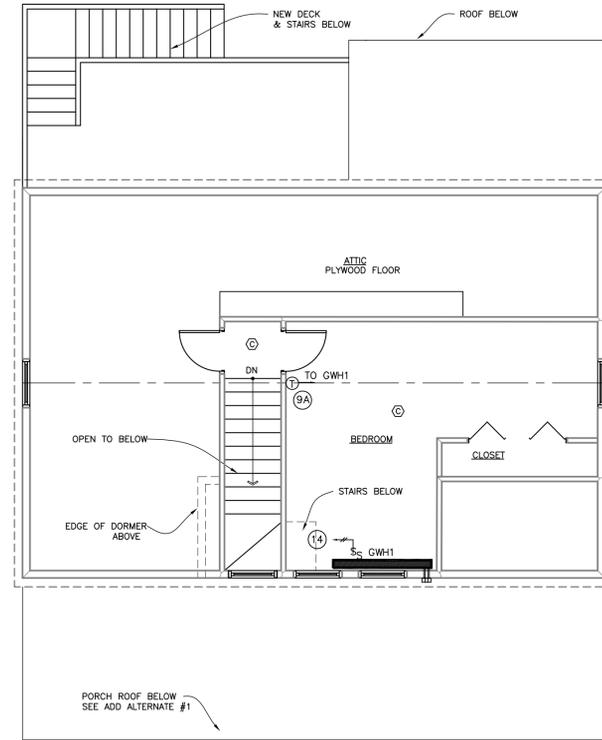
NEW GARAGE — MECHANICAL  
SCALE: 3/16"=1'-0"



PARTIAL DEMOLITION PLAN  
SCALE: 3/16"=1'-0"



FIRST FLOOR — MECHANICAL  
SCALE: 3/16"=1'-0"



SECOND FLOOR — MECHANICAL  
SCALE: 3/16"=1'-0"

**ELECTRICAL NOTES:**

1. EXISTING ELECTRICAL, TEL/DATA & CABLE TV OVERHEAD SERVICES TO BE TEMPORARILY REMOVED DURING THE DURATION OF THE HOUSE RAISE. COORDINATE THIS WORK WITH THE RESPECTIVE UTILITY COMPANIES.
2. EXISTING ELECTRICAL, TEL/DATA & CABLE TV OVERHEAD SERVICES TO BE RE-ESTABLISHED AFTER THE HOUSE RAISE. COORDINATE THIS WORK WITH THE RESPECTIVE UTILITY COMPANIES. PROVIDE APPROVED ELECTRICAL SERVICE WEATHERHEAD, 2" GALVANIZED STEEL CONDUIT DOWN TO METER SOCKET AND 5/8" DIAMETER 8'-0" LONG COPPER ROD WITH BONDED GROUND CONDUCTOR AS PER 2011 NEC REQUIREMENTS.
3. EXISTING ELECTRICAL METER TO BE TEMPORARILY REMOVED DURING THE DURATION OF THE HOUSE RAISE. EXISTING ELECTRICAL METER TO BE RE-INSTALLED ON THE ELEVATED WALL AFTER THE HOUSE RAISE. COORDINATE THIS WORK WITH THE ILLUMINATING CO.
4. EXISTING ELECTRICAL PANEL, 100A @ 120/240V, 1 PH, MCB, 42 CKTS TO BE RELOCATED WHERE SHOWN. EXTEND THE EXISTING SERVICE FROM EXISTING LOCATION WITH 3#2+1#4, 1-1/2" TO NEW PANEL LOCATION. PROVIDE PULL BOX AT CEILING AT OLD PANEL LOCATION. EXTEND WIRING TO NEW PANEL LOCATION AND PROVIDE NEW CIRCUIT BREAKERS AS INDICATED AND REQUIRED.
5. EXISTING GAS-FIRED DOWNFLOW FURNACE TO BE DISCONNECTED, AS REQUIRED FOR RELOCATION. LOCATION OF THE EXISTING RELOCATED GAS-FIRED DOWNFLOW FURNACE RE-WIRE THE RELOCATED FURNACE SERVICE SWITCH WITH 2#10+1#12G, 3/4" IN SERIES WITH A NEW THERMAL SWITCH AND EMERGENCY SHUTDOWN SWITCH LOCATED WHERE INDICATED.
6. EXISTING DOMESTIC WATER HEATER IN CRAWL SPACE TO BE DISCONNECTED, AS REQUIRED FOR RELOCATION. LOCATION OF THE EXISTING RELOCATED GAS-FIRED DOMESTIC WATER HEATER, RE-WIRE THE RELOCATED WATER HEATER SERVICE SWITCH WITH 2#12+1#12G, 3/4" IN SERIES WITH A NEW THERMAL SWITCH AND EMERGENCY SHUTDOWN SWITCH LOCATED WHERE INDICATED.
7. EXISTING THRU-THE-WINDOW AIR CONDITIONING UNIT TO BE TEMPORARILY REMOVED DURING THE CONSTRUCTION WORK AND RE-INSTALLED AFTER THE WORK IS COMPLETED. EXISTING THERMOSTAT TO REMAIN.
8. NEW LOW VOLTAGE ELECTRONIC PROGRAMMABLE THERMOSTAT.
9. EXISTING WALL MOUNTED LIGHTING FIXTURE TO REMAIN (E) (TYP).
10. WIRE WITH 2#12+1#12G TO EXISTING EXT. LIGHTING CIRCUIT. REPLACE EXISTING SINGLE POLE SWITCH WITH FOUR POLE SWITCH INSIDE HOUSE.
11. WIRE WITH 2#12+1#12G TO EXISTING EXT. LIGHTING CIRCUIT.
12. WIRE THE NEW GARAGE DOOR OPENER WITH 2#12+1#12G TO NEW 20A-1P IN THE EXISTING RELOCATED PANELBOARD.
13. WIRE NEW SERVICE SWITCH WITH 2#12+1#12G TO NEW 20A-1P CIRCUIT BREAKER IN EXISTING RELOCATED PANELBOARD. WIRE THE EXHAUST FAN (EF) SERVICE SWITCH TO THE WALL MOUNTED SPEED CONTROLLER WITH 2#12+1#12G.
14. NEW AC/DC CARBON MONOXIDE DETECTOR WITH VISUAL & AUDIBLE ALARM, UL 2034 & 2075 LISTED. WIRE WITH 2#12+1#12G TO EXISTING LIGHTING CIRCUIT PRIOR TO ANY SWITCHES OR OTHER MEANS OF DISCONNECT (TYP).
15. NEW WALL MOUNTED WEATHERPROOF LIGHTING FIXTURE. REFER TO SPECIFICATIONS ON THIS DRAWING.
16. FOR THE NEW HEAT TRACING CIRCUITS FOR EXPOSED COLD, HOT AND WASTE/SANITARY PIPING IN THE GARAGE, REFER TO NOTES UNDER THE EQUIPMENT SELECTION ON THIS DRAWING.
- 17.

**SCOPE OF WORK**

1. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING CONDITIONS, PRIOR TO STARTING THIS WORK.
2. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2009 INTERNATIONAL RESIDENTIAL CODE, 2005 CONNECTICUT STATE BUILDING & FIRE SAFETY CODES, 2011 NATIONAL ELECTRICAL CODE, 2009, 2011, 2012 & 2013 AMENDMENTS TO THE SAFE BUILDING AND FIRE SAFETY CODES, AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
3. THIS CONTRACTOR IS REQUIRED TO APPLY AND OBTAIN ALL REQUIRED PERMITS, PAY FOR ALL FEES, TAXES AND PROVIDE ALL TESTS REQUIRED BY THE LOCAL AUTHORITIES JURISDICTION.
4. THIS CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED DURING CONSTRUCTION FOR HIS/HER WORK, AND FURTHER PAY FOR UTILITY COMPANY CHARGES. ALL POWER INTERRUPTIONS SHALL BE SCHEDULED AT AT LEAST 48 HOURS IN ADVANCE.
5. THIS CONTRACTOR IS REQUIRED TO PROVIDE DEMOLITION, NEW SERVICE EQUIPMENT, LIGHTING FIXTURES, ACCESSORIES & SUPPORTS, POWER TO EQUIPMENT FURNISHED BY OTHERS (I.E. HVAC & PLUMBING CONTRACTORS, ETC.), JUNCTION/PULLING BOXES, WIRING/CONDUITS & SUPPORTING DEVICES, SWITCHING DEVICES, ETC., FOR COMPLETE OPERATIONAL SYSTEMS, APPROVED BY THE LOCAL AUTHORITIES HAVING JURISDICTION, OWNER'S REPRESENTATIVE AND PROJECT ENGINEER.
6. ALL NEW ELECTRICAL EQUIPMENT, SUCH AS SERVICE EQUIPMENT, LIGHTING FIXTURES, CONDUITS, ETC., SHALL BE RESTRAINED TO THE BUILDING'S STRUCTURAL ELEMENTS, AS REQUIRED.
7. FURNISH & INSTALL GROUNDING AND BONDING FOR ALL ELECTRICAL EQUIPMENT AND OWNER'S FURNISHED EQUIPMENT IN STRICT ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE.
8. FURNISH AND INSTALL NEW LIGHTING FIXTURES, LAMPS AND SUSPENSION ACCESSORIES. APPLY FOR ANY UTILITY COMPANY INCENTIVES/REBATES TOWARDS ENERGY EFFICIENT LAMPS/BALLASTS AND PROVIDE CREDIT TO OWNER AT PROJECT COMPLETION.
9. ALL WIRING SHALL BE COPPER OR EQUAL, WITH THIN OR THIN INSULATION, RATED FOR 600 VOLTS. USE EMT CONDUITS BETWEEN PANELBOARDS IN DRY AREAS, USE GALVANIZED STEEL RIGID CONDUITS WITH LIQUIDTIGHT FITTINGS BETWEEN PANELBOARDS IN WET AREAS AND WHEN EXPOSED AT EXTERIOR, USE NON-METALLIC CONDUITS WITH FUSION WELDED FITTINGS BELOW GRADE. USE ROMEX/BX WIRING INSIDE THIS HOUSE.
10. ALL WIRING, CABLES & CONDUITS ARE REQUIRED TO BE IDENTIFIED EVERY TWENTY (20) FEET ALONG ROUTING, WITH WIRE AND CONDUIT MARKERS, EQUAL TO "SETON NAMEPLATE" AND IN STRICT ACCORDANCE WITH ANSI Z53.1-1979 AND NFPA-70 REQUIREMENTS. THESE MARKERS SHALL IDENTIFY CIRCUIT NUMBER & PANELBOARD SERVING EACH INDIVIDUAL CIRCUIT. PROVIDE TYPED DIRECTORIES FOR ALL PANELBOARDS.
11. THIS WORK SHALL BE DEEMED COMPLETE ONLY AFTER HAS BEEN THOROUGHLY INSPECTED AND APPROVED BY THE LOCAL AUTHORITIES HAVING JURISDICTION AND AND PROJECT ENGINEER. THIS CONTRACTOR IS REQUIRED TO PROVIDE THREE (3) SETS OF "AS-BUILT" DRAWINGS AND OPERATION & MAINTENANCE MANUALS, PRIOR TO PROJECT COMPLETION & COMMISSIONING. NO WORK SHALL START BEFORE THE CONTRACTOR SUBMIT SHOP DRAWINGS FOR ALL DEVICES AND ACCESSORIES, MATERIALS, ETC., AND FURTHER OBTAIN APPROVALS FROM THE ENGINEER AND OWNER'S REPRESENTATIVE.

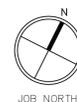
**EQUIPMENT SELECTION**

- LIGHTING FIXTURES**
- A. WALL MOUNTED FULL CUTOFF FLUORESCENT LIGHTING FIXTURE, EQUAL TO "COOPER LIGHTING", MODEL PLIP-32-MT-LL, FURNISHED WITH 32W COMPACT FLUORESCENT LIGHTING FIXTURE, UL LISTED FOR WET LOCATIONS.
  - B. WALL MOUNTED FLOOD HALOGEN LIGHTING FIXTURE, EQUAL TO "COOPER LIGHTING", MODEL LSV27BW, FURNISHED WITH (2) 100W QUARTZ HALOGEN LAMPS AND MOTION DETECTOR, UL LISTED FOR WET LOCATIONS.
- NOTES:**
1. INSTALL LIGHTING FIXTURES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, RECOMMENDATIONS AND WARRANTY.
  2. PROVIDE ALL NECESSARY ACCESSORIES, SUPPORTS, ETC., AS REQUIRED FOR AN APPROVED COMPLETE INSTALLATION.
- HEAT TRACING TAPE**
- HEAT TRACING TAPE, WET SELF-REGULATING PIPE HEATING TAPE, EQUAL TO "RAYCHEM", MODEL H612050, RATED FOR 6W/FT OR 0.05A/FT @ 40 F & 120V/1 PH, FURNISHED WITH BUILT-IN THERMOSTAT, UL LISTED.
- NOTES:**
1. INSTALL HEAT TRACING TAPE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, RECOMMENDATIONS AND WARRANTY.
  2. REFER TO THE DRAWING P1, SCOPE OF WORK, ITEM #19, TO THE EXTENT OF THE HEAT TRACING TAPE WORK. ALL EXPOSED COLD & HOT WATER PIPING IN THE GARAGE SHALL RECEIVE (2) HEAT TRACING CIRCUITS, AND ALL EXPOSED WASTE/SANITARY PIPING IN THE GARAGE SHALL RECEIVE (1) HEAT TRACING CIRCUIT.
  3. PROVIDE (3) HEAT TRACING TAPE CIRCUITS TO (3) NEW 20A-1P CIRCUIT BREAKERS IN EXISTING RELOCATED PANELBOARD, EACH WIRED WITH 2#10+1#12G, 3/4".

SYMBOL LIST	
SYMBOL	DESCRIPTION
HO	WALL MOUNTED FIXTURE
Q	WALL MOUNTED FLOOD FIXTURE
S S <sub>3</sub>	SINGLE POLE/THREE POLE SWITCH
SW S <sub>3W</sub>	SINGLE POLE/THREE POLE SWITCH WEATHERPROOF TYPE
S <sub>S</sub>	SERVICE SWITCH
S <sub>EM</sub>	EMERGENCY SHUTDOWN SWITCH
S <sub>C</sub>	SPEED CONTROLLER
OR	JUNCTION BOX
DP	DUPLEX/QUAD RECEPTACLE
GD	GARAGE DOOR PUSH BUTTON
SD	SAFETY/DISCONNECT SWITCH
TS	THERMAL SWITCH
CD	CARBON MONOXIDE DETECTOR
WP	WEATHERPROOF
AFF	ABOVE FINISHED FLOOR
FU#	FURNACE, GAS-FIRED
GWH#	BASEBOARD WALL HEATER, GAS-FIRED
EF#	EXHAUST FAN
DWH#	DOMESTIC WATER HEATER
E	EXISTING TO REMAIN
ER	EXISTING TO BE RELOCATED
R	EXISTING TO BE REMOVED

**GENERAL NOTES**

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3. ALL PENETRATIONS THRU FLOOR AND WALLS SHALL BE FIRE STOPPED WITH "THOMAS AND BETTS" - FLAMESAFE, TYPE FST FIRESTOP COMPOUND OR APPROVED EQUIVALENT, CONFORMING TO ASME E814/UL1479.



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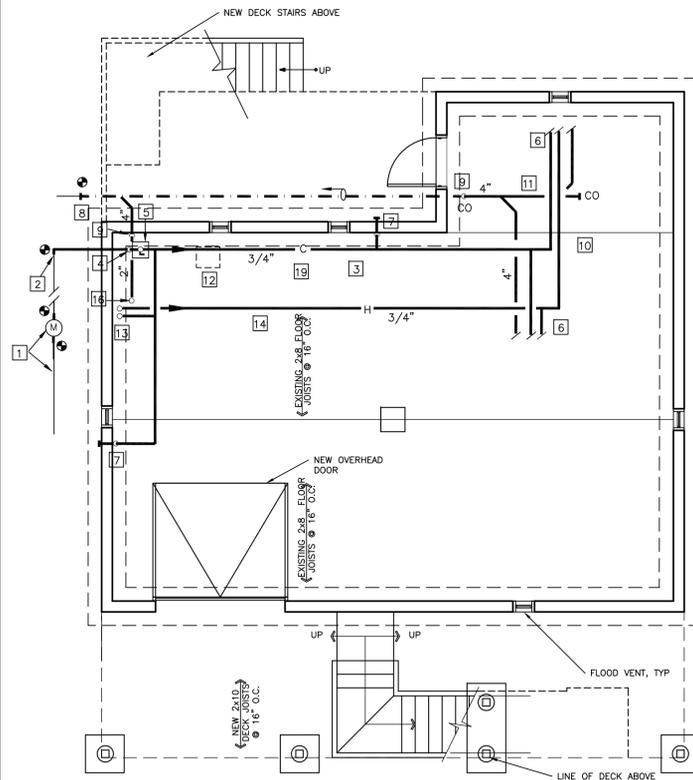
**REHABILITATION/RECONSTRUCTION WORK FOR:**

**ROBIN MONGILLO**  
APPLICANT #2206

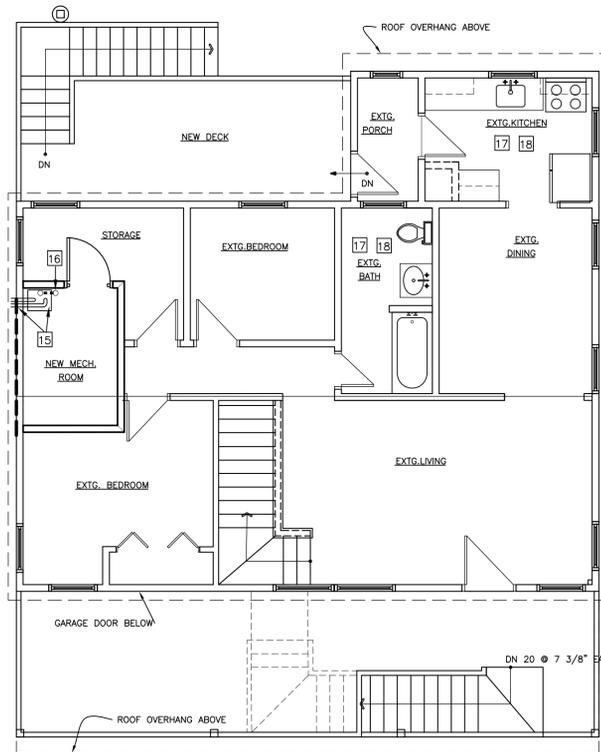
70 SHELL AVE.,  
MILFORD, CT

**ELECTRICAL**

drawn by	DTP
scale	NOTED
date	April 10, 2015
checked by	DTP
project number	DTP14036
drawing number	E-1



NEW GARAGE -- PLUMBING  
SCALE: 3/16"=1'-0"



FIRST FLOOR -- PLUMBING  
SCALE: 3/16"=1'-0"

PLUMBING CONSTRUCTION NOTES

- 1 EXISTING WATER SERVICE TO REMAIN. EXACT LOCATION TO BE FIELD DETERMINED. COORDINATE INSTALLATION OF NEW WATER METER AND WATER METER PIT WITH THE WATER CO. COMPLY WITH WATER CO. RULES AND REGULATIONS.
- 2 CONNECT NEW SAME SIZE WATER SERVICE PIPING TO EXISTING WATER SERVICE MAIN. ROUTE NEW PIPING BELOW GRADE AS REQUIRED TO ENSURE CLEARANCES FOR NEW CONCRETE FOOTINGS.
- 3 DISCONNECT AND REMOVE EXISTING WATER PIPING IN CRAWL SPACE.
- 4 NEW WATER SERVICE RISE TO ABOVE GARAGE FLOOR CEILING
- 5 NEW BALL VALVE AND DRAIN VALVE ABOVE GYPSUM CEILING SHALL BE ACCESSIBLE BY 12X12, 1 HOUR FIRE RATED INSULATED HINGED ACCESS DOOR TO BE FURNISHED BY THE GENERAL CONTRACTOR.
- 6 ROUTE NEW COLD WATER PIPING ABOVE GYPSUM CEILING TO ALL PLUMBING FIXTURES, EQUIPMENT AND NEW WALL FAUCETS
- 7 NEW 3/4" COLD WATER DOWN TO NON-FREEZE WALL FAUCET.
- 8 CONNECT NEW 4" SANITARY SEWER PIPING TO EXISTING MAIN EXACT LOCATION TO BE FIELD DETERMINED.
- 9 NEW SANITARY/WASTE PIPING DROP BELOW GRADE WITH CLEANOUT ON RISER.
- 10 DISCONNECT AND REMOVE EXISTING SANITARY/SEWER AND VENT PIPING IN CRAWL SPACE.
- 11 NEW 4" SANITARY SEWER PIPING TO RUN EXPOSED BELOW GYPSUM CEILING, PITCH 1/8"/FOOT AND CONNECT TO ALL PLUMBING FIXTURES.
- 12 EXISTING ON DEMAND GAS FIRED WATER HEATER TO BE DISCONNECTED, REMOVED AND RELOCATED AT FIRST FLOOR MECHANICAL ROOM. REMOVE ALL EXISTING HOT AND COLD WATER DISTRIBUTION PIPING TO PLUMBING FIXTURES.
- 13 NEW 3/4" COLD WATER UP TO RELOCATED WATER HEATER, AND 3/4" HOT WATER DN FROM WATER HEATER ABOVE.
- 14 NEW COLD DISTRIBUTION PIPING TO ALL EXISTING PLUMBING FIXTURES TO REMAIN.
- 15 EXISTING RELOCATED WATER HEATER, WITH 3/4" COLD WATER FEED FROM BELOW. NEW WATER HEATER EXHAUST AND INTAKE TO RUN THRU WALL
- 16 2" DRAIN WASTE FROM WATER HEATER ABOVE. INSTALL STUDOR VENT ON P-TRAPPED PIPING IN MECHANICAL ROOM ABOVE.
- 17 ALL NEW VENT PIPING SHALL BE ROUTED TO ROOF THRU NEW SECOND FLOOR.
- 18 REPIPE ALL EXISTING PLUMBING FIXTURES AND EQUIPMENT, ENSURE PROPER OPERATIONAL SYSTEMS
- 19 ALL WATER AND SAN/SEWER PIPING ABOVE AND BELOW GARAGE CEILING, SHALL BE HEAT TRACED AND INSULATED. REFER TO ELECTRICAL DWG.

PLUMBING LEGEND

---	NEW PIPING (DARK)
---	EXISTING PIPING (LIGHT)
-C-	COLD WATER PIPING
-H-	HOT WATER PIPING
---	DIRECTION OF FLOW
---	PITCH OF PIPING
-CO-	CLEANOUT
CW	COLD WATER
CLG	CEILING
●	POINT OF NEW CONNECTION

FIXTURE CONNECTION SCHEDULE

FIXTURE	HOT	COLD	SAN/WASTE	VENT
WATER CLOSET	-	1/2"	4"	2"
LAV	1/2"	1/2"	1-1/2"	1-1/2"
TUB/SHOWER	1/2"	1/2"	2"	1-1/2"
SINK	1/2"	1/2"	2"	1-1/2"

PLUMBING EQUIPMENT SELECTION

NON-FREEZE, ANTI-SIPHON WALL FAUCET SHALL BE EQUAL TO "WOODFORD MANUFACTURING CO. MODEL 9"

SCOPE OF WORK

- 1 - ALL POTENTIAL CONTRACTORS SHALL BECOME FAMILIAR WITH THE SITE CONDITIONS, PRIOR TO START ANY WORK.
- 2 - ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2009 INTERNATIONAL RESIDENTIAL CODE AND 2009, 2011, 2012 & 2013 CONNECTICUT AMENDMENTS TO THE STATE BUILDING AND FIRE SAFETY CODES, OTHER APPLICABLE CODES, STANDARDS, REGULATIONS, ORDINANCES, ETC., AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES AND UTILITY COMPANIES HAVING JURISDICTION. THIS CONTRACTOR SHALL BE A LICENSED MECHANICAL CONTRACTOR, AND SHALL BE RESPONSIBLE TO OBTAIN A CONSTRUCTION PERMIT AND PAY FOR ALL APPLICABLE FEES, TAXES, TESTS, ETC. NO WORK SHALL BE PERFORMED UNTIL SHOP DRAWINGS FOR ALL EQUIPMENT, DEVICES AND MAJOR MATERIALS ARE SUBMITTED AND APPROVED IN WRITING BY THE PROJECT ENGINEER.
- 3 - FURNISH & INSTALL ALL EQUIPMENT, DEVICES, MATERIALS, ETC., AS INDICATED, SHOWN AND SPECIFIED FOR COMPLETE OPERATIONAL SYSTEMS, APPROVED BY ARCHITECT/ENGINEER & OWNER'S REPRESENTATIVE, AND LOCAL AUTHORITIES HAVING JURISDICTION.
- 4 - THIS CONTRACTOR IS RESPONSIBLE TO SUBMIT TO THE ARCHITECT/ENGINEER SHOP DRAWINGS FOR ALL EQUIPMENT & DEVICES, MATERIALS, ETC., AND FURTHER OBTAIN ALL NECESSARY APPROVALS, PRIOR TO STARTING THIS WORK.
- 5 - THIS CONTRACTOR SHALL INCLUDE IN HIS/HER WORK, WITHOUT EXTRA COST TO OWNER, ANY LABOR, MATERIAL APPARATUS AND DRAWING ADDITIONS TO THE CONTRACT DRAWINGS AND SPECIFICATIONS IN ORDER TO COMPLY WITH THE CURRENT APPROVED CODES, STANDARDS, ORDINANCES, RULES AND REGULATIONS, EITHER SHOWN OR NOT ON THESE DRAWINGS AND SPECIFICATIONS.
- 6 - ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS, RECOMMENDATIONS AND WARRANTY, WITH ALL REQUIRED CLEARANCES FOR MAINTENANCE AND SERVICE.
- 7 - WATER PIPING SHALL BE COPPER TYPE L, HARD DRAWN, AS PER ASTM B88. FITTINGS SHALL BE SOLDER WROUGHT COPPER, AS PER ASME B16.22. JOINTS SHALL BE SOLDER LEAD FREE, AS PER ASME B32. SANITARY AND VENT PIPING ABOVE AND BELOW GRADE, SHALL BE PVC PIPING, ASTM D2729, SCHEDULE 40, WITH PVC FITTINGS AND ASTM D2855 SOLVENT WELD JOINTS. HEATING HOT WATER AND DRAIN PIPING SHALL BE COPPER TYPE L, HARD DRAWN, AS PER ASTM B88. FITTINGS SHALL BE SOLDER WROUGHT COPPER, AS PER ASME B16.22. FURNISH AND INSTALL SHUT-OFF/ISOLATION VALVES ON ALL MAIN BRANCHES AS REQUIRED. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION. SLOPE PIPING TO DRAIN AT LOW POINTS. INSTALL SPECIALTIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PERFORM COLD LEAK TESTS AND REPAIR JOINTS, AS NECESSARY. CLEAN AND FLUSH PIPING BEFORE START-UP. CLEANOUTS FOR EXPOSED PIPING SHALL BE EQUAL TO "WADE". PIPE HANGERS AND SUPPORTS TO CONFORM TO ASME B31.9 AND MSS SP58. HANGERS SHALL BE CARBON STEEL RING, ADJUSTABLE, COPPER PLATED. UNIONS SHALL BE BRONZE SOLDERED JOINTS. DIELECTRIC CONNECTIONS SHALL BE UNION WITH GALVANIZED OR PLATED THREADED END, COPPER SOLDER END, WATER IMPERVIOUS ISOLATION BARRIER. BALL VALVES SHALL BE BRONZE, ONE PIECE BODY, CHROME PLATED BRONZE BALL, TEFLON SEATS AND STUFFING BOX RING WITH SOLDERED ENDS. GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED JOINTS. GAS BALL VALVES SHALL BE 150 PSI WOG BRONZE BODY, STRAIGHTAWAY PATTERN, SQUARE HEAD, THREADED ENDS. FURNISH AND INSTALL CONDENSATE DRAIN PIPING, FITTINGS AND SPECIALTIES FOR A COMPLETE OPERATIONAL SYSTEMS. BEFORE BEING PLACED IN SERVICE, ALL NEW POTABLE WATER (DOMESTIC COLD AND HOT WATER) SHALL BE PURGED OF DELETERIOUS MATTER, AND CHLORINATED IN ACCORDANCE WITH AWWA C651 OR AWWA C652, AND AS REQUIRED BY LOCAL BUILDING AND HEALTH DEPARTMENT CODES.
- 8 - FURNISH & INSTALL PIPING INSULATION TO ALL NEW PIPING, AS FOLLOWS:
  - INSULATE HOT AND COLD WATER PIPING RUNNING AT/ABOVE GARAGE CEILING, WITH 1-1/2" THICK FIBERGLASS INSULATION WITH ASJ. PROVIDE HEAT TRACING ON THIS PIPING AND COVER WITH INSULATION.
  - INSULATE SANITARY SEWER AND DRAIN PIPING RUNNING BELOW GYPSUM BOARD CEILING WITH 1-1/2" THICK FIBERGLASS INSULATION WITH ASJ. PROVIDE HEAT TRACING ON THIS PIPING AND COVER WITH INSULATION.
- 9 - FURNISH & INSTALL EQUIPMENT NAMEPLATES, PIPE MARKERS, VALVE TAGS, ETC., IN COMPLIANCE WITH ANSI A13.1.
- 10 - PROVIDE THREE (3) SETS OF "AS-BUILT" DRAWINGS TO ARCHITECT/ENGINEER AT PROJECT COMPLETION.
- 11 - THIS PROJECT SHALL BE DEEMED COMPLETE ONLY AFTER IS THOROUGHLY INSPECTED, DEMONSTRATED TO AND APPROVED IN WRITING BY THE LOCAL AUTHORITIES HAVING JURISDICTION, OWNER'S REPRESENTATIVE AND ARCHITECT/ENGINEER. ALL WARRANTIES SHALL START AFTER RECEIVING THESE APPROVALS.



GENERAL NOTES

- 1 - THE INFORMATION SHOWN ON THIS DRAWING IS BASED UPON THE INFORMATION SHOWN ON THE BUILDING PLANS AND LIMITED FIELD INVESTIGATIONS AND MAY OR MAY NOT REFLECT ACTUAL FIELD CONDITIONS. THIS CONTRACTOR SHALL VERIFY THE INFORMATION INDICATED ON THIS DRAWING AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO SUBMITTING HIS BID.
- 2 - THIS CONTRACTOR IS REQUIRED TO PERFORM THIS WORK IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, ETC., AND TO MEET THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND OWNER, WHETHER OR NOT SPECIFICALLY INDICATED OR SPECIFIED ON THIS DRAWING.
- 3 - ALL PENETRATIONS THRU FLOOR AND WALLS SHALL BE FIRE STOPPED WITH "THOMAS AND BETTS" - FLAMESAFE, TYPE FST FIRESTOP COMPOUND OR APPROVED EQUIVALENT, CONFORMING TO ASME E814/JUL1479.

NO.	NATURE OF REVISION	DATE	BY
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**Project:** REHABILITATION/RECONSTRUCTION WORK FOR:  
drawn by CP  
scale NOTED  
date April 10, 2015  
checked by DTP  
project number DTP14036  
drawing number P-1