

**THE STATE OF CONNECTICUT  
DEPARTMENT OF HOUSING (DOH)**

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

**OWNER-OCCUPIED REHABILITATION AND REBUILDING PROGRAM (OORR)**



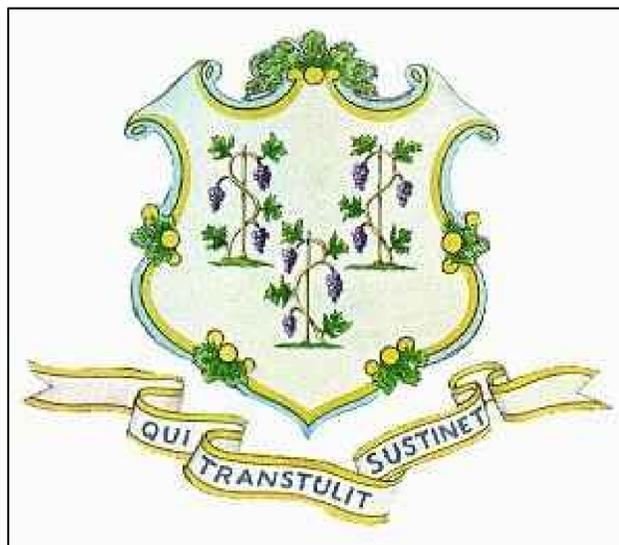
PROJECT LOCATION MAP  
NTS

**STORM SANDY RELIEF  
GOVERNOR DANIEL P. MALLOY**

**APPLICATION NO. 1253  
31 MOREHOUSE AVE.  
MILFORD, CT 06460**

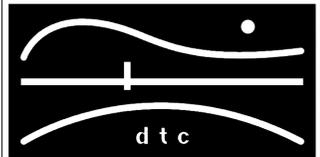
**8/20/2014**

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E-001	ELECTRICAL NOTES, LEGENDS, ABBREVIATIONS, DETAILS & SCHEDULES
E-100	ELECTRICAL BASEMENT & FIRST FLOOR PLANS



NOTES:

REVISIONS



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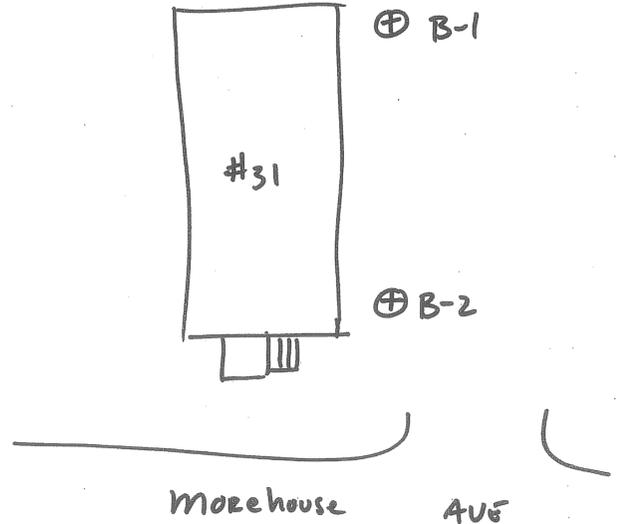
OORR  
APPLICATION NO. 1253  
MASURY RESIDENCE  
31 MOREHOUSE AVE.  
MILFORD, CT

COVER SHEET

DTC PROJECT NUMBER: 13-449-009  
DTC DRAWING FILE:  
SCALE: NA DRAWN BY:  
DATE: 8/20/2014 CHECKED BY:

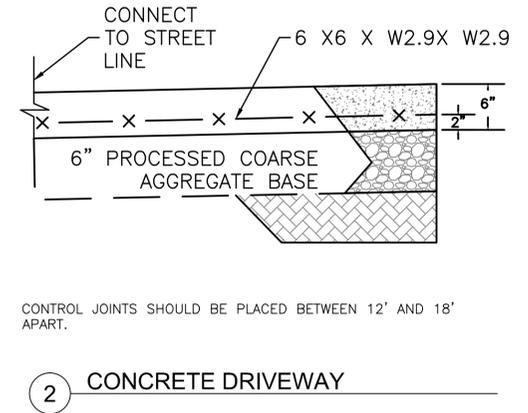
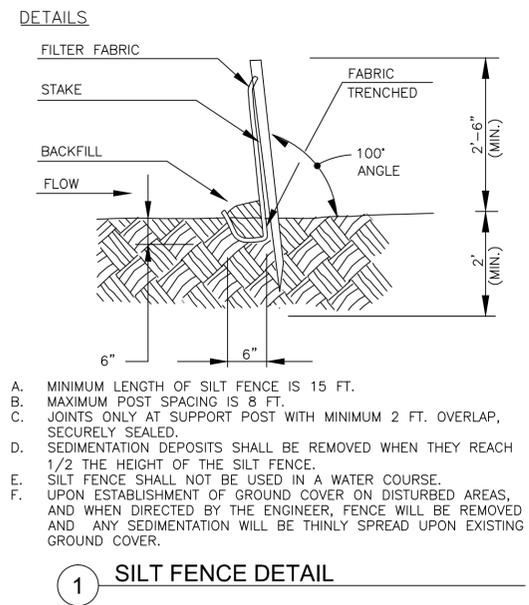
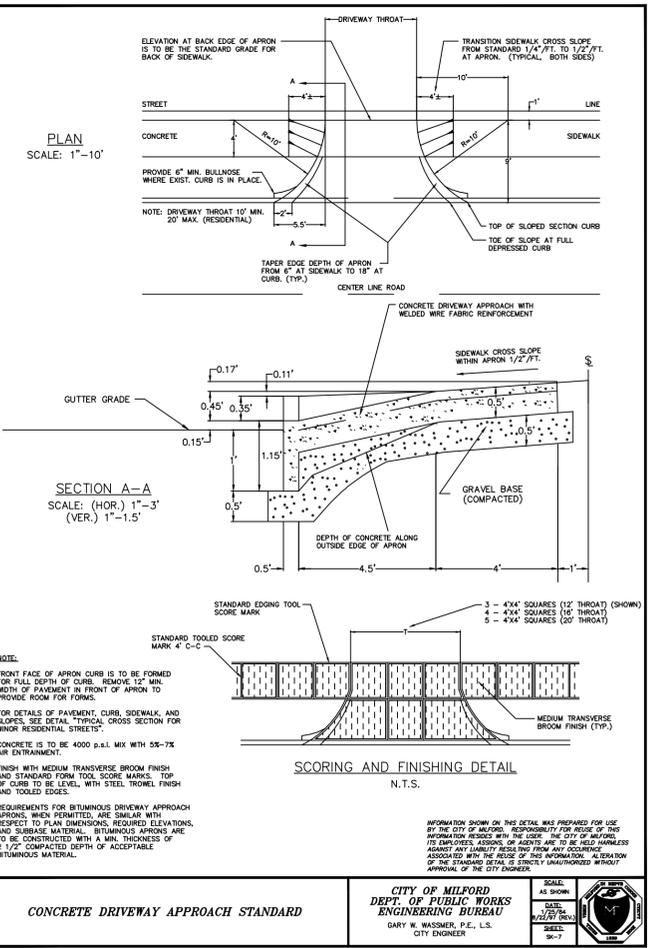
SHEET:  
**G-100**





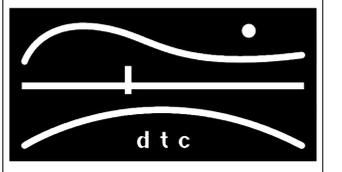
SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850		CLIENT: John A Wicco Architect	SHEET 1 OF 1 HOLE NO. B-1							
PROJECT NO. G214-9558-13		PROJECT NAME 31 Morehouse Avenue	BORING LOCATIONS per sketch							
FOREMAN-DRILLER TP/CMc		LOCATION Milford, CT								
INSPECTOR		TYPE HSA SS	OFFSET							
GROUND WATER OBSERVATIONS		CASING SIZE I.D. 3 3/4"	SAMPLER 1 3/8"							
AT 4 FT AFTER 0 HOURS		HAMMER WT. 140#	DATE START 10/31/13							
AT 1 FT AFTER 0 HOURS		HAMMER FALL 30"	DATE FINISH 10/31/13							
			SURFACE ELEV. GROUND WATER ELEV.							
DEPTH	CASING BLOWS PER FOOT	SAMPLE				BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0-6 6-12 12-18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC					
1	1	ss	24"	10"	20"	10	8	dry	03.5'	ASPHALT
2	2	ss	24"	3"	40"	9	9	compact moist		brn F-M SAND, sm F gravel, tr silt
3	3	ss	24"	18"	60"	4	2	compact	410'	brn F-M SAND, sm C sand, lt F gravel, tr silt
4	4	ss	24"	10"	80"	1	2	wet soft	58'	brn ORGANIC SILT & PEAT
5	5	ss	24"	10"	100"	4	2	wet v loose		gry F-M SAND, lt gry organic silt, peat SAME, tr F gravel
6	6	ss	24"	18"	120"	3	2	wet loose		gry F SAND, lt gry organic silt
7	7	ss	24"	20"	170"	1	1	wet v loose	160'	gry ORGANIC SILT & F SAND
8	8	ss	24"	14"	220"	24	78	wet v dense		gry F-M SAND, sm C sand, lt organic silt
9	9	ss	24"	19"	270"	6	8	wet compact		tr cobbles, C gravel at 19'
10	10	ss	24"	18"	320"	3	6	wet compact		gry / brn F-C SAND, sm F gravel, tr cobble
11	11	ss	24"	2"	370"	6	7	wet compact		brn VF F SAND, sm silt
12	12	ss	24"	2"	370"	8	9	wet compact		brn VF SAND & SILT
13	13	ss	24"	2"	370"	7	9	wet compact	370'	brn gry VF SAND & SILT
NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.										
GROUND SURFACE TO FT USED CASING THEN CASING TO FT. HOLE NO. B-1										
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST										
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE										
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM										
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE										

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850		CLIENT: John A Wicco Architect	SHEET 1 OF 1 HOLE NO. B-2							
PROJECT NO. G214-9558-13		PROJECT NAME 31 Morehouse Avenue	BORING LOCATIONS per sketch							
FOREMAN-DRILLER TP/CMc		LOCATION Milford, CT								
INSPECTOR		TYPE HSA SS	OFFSET							
GROUND WATER OBSERVATIONS		CASING SIZE I.D. 3 3/4"	SAMPLER 1 3/8"							
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DEPTH	CASING BLOWS PER FOOT	SAMPLE				BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0-6 6-12 12-18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC					
1	1	ss	24"	0"	70"	1	1	wet v loose		brn F-M SAND, sm F gravel, tr silt
2	2	ss	24"	6"	120"	1	1/12	wet v soft		place C gravel stuck in tip of spoon (poss fill)
3	3	ss	24"	20"	170"	2	2	wet loose	160'	brn ORGANIC SILT
4	4	ss	24"	10"	220"	7	8	wet compact		gry F-M SAND, sm silt, tr F gravel
5	5	ss	24"	20"	270"	8	11	wet compact		brn gry F-M SAND, sm F gravel, lt silt, tr C sand
6	6	ss	24"	16"	320"	7	9	wet compact		lt brn VF F SAND, sm silt
7	7	ss	24"	18"	370"	9	11	wet compact		brn gry F SAND, sm silt, tr red clay lenses
8	8	ss	24"	18"	420"	7	9	wet compact	420'	gry brn F SAND, sm silt
9	9	ss	24"	18"	420"	9	11	wet v stiff		gry SILT, sm F sand, lt red clay lenses
NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.										
GROUND SURFACE TO FT USED CASING THEN CASING TO FT. HOLE NO. B-2										
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST										
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE										
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM										
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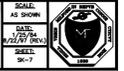
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OOR  
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MASURY RESIDENCE  
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BORING LOGS & DETAILS

DTC PROJECT NUMBER: 13-449-009  
DTC DRAWING FILE:  
SCALE: DRAWN BY: LEC  
DATE: 8/20/2014 CHECKED BY: JAB

SHEET:  
**C-101**



GENERAL NOTES

GENERAL

GOVERNING CODE: 2009 INTERNATIONAL RESIDENTIAL CODE OF THE INTERNATIONAL CODE COUNCIL INC. WITH THE 2013 AMENDMENTS TO THE STATE CODE.

DESIGN LOADS:

NEW FLOOR AREAS:

FIRST FLOOR: DEAD LOAD 15 PSF  
LIVE LOAD 40 PSF

DECKS: DEAD LOAD 15 PSF  
LIVE LOAD 40 PSF

NEW ROOF AREAS:

ROOF SNOW LOAD CRITERIA:  $P_g = 30$  PSF,  $C_e = 0.7$  AND  $I = 1.0$ , WITH INCREASES FOR SNOW DRIFTING, UNBALANCES AND SLIDING.

MINIMUM ROOF LIVE LOAD = 30 PSF

ROOF DEAD LOAD = 15 PSF

WIND LOAD CRITERIA FOR NEW, ALTERED, OR REPAIRED ELEMENTS:

BASIC WIND SPEED = 100 MPH, EXPOSURE CLASSIFICATION 'D'.

SEISMIC LOAD CRITERIA FOR NEW, ALTERED OR REPAIRED ELEMENTS.

SEISMIC DESIGN CATEGORY "B"

- SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.
- ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR SITUATIONS THROUGHOUT THE BUILDING, UNLESS OTHERWISE SPECIFICALLY NOTED.
- NEW, ALTERED, OR REPAIRED ELEMENTS CONFORM TO THE 2009 INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO FAMILY DWELLINGS INCLUDING THE CONNECTICUT 2013 AMMENDMENT TO THE STATE BUILDING CODE.
- ELEVATION OF THE BOTTOM OF THE LOWEST HORIZONTAL STRUCTURAL MEMBER SHALL BE ELEVATION 1.6.0.

FOUNDATIONS

- BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3' 6" BELOW FINISHED GRADE.
- PLACEMENT OF ALL COMPACTED FILL MUST BE UNDER SUPERVISION OF AN APPROVED TESTING LABORATORY (SEE SPECIFICATIONS). CONCRETE FOUNDATIONS SHALL NOT BE PLACED UNTIL SUBBASE HAS BEEN CHECKED IN PLACE AND APPROVED BY TESTING LABORATORY.
- CONTROL JOINT SPACING IN FOUNDATION WALLS SHALL NOT EXCEED 30 FEET. 50% OF HORIZONTAL REINFORCEMENT SHALL EXTEND THROUGH JOINT AND HAVE A CLASS "B" SPLICE (PER ACI 318-02).
- WHERE REQUIRED, CONSTRUCTION JOINTS SHALL BE KEYPED AND OCCUR AT CONTROL JOINT INTERVALS.

HELICAL MICROPILES

- GENERAL NOTES ARE MEANT TO COMPLIMENT THE HELICAL PILE SPECIFICATIONS AND SHOULD BE CONFORMED TO DURING DESIGN AND INSTALLATION.
- THE HELICAL PILE CONTRACTOR SHALL HAVE MINIMUM 5 YEARS EXPERIENCE IN PERFORMING DESIGN AND CONSTRUCTION OF HELICAL MICROPILES. THE CONTRACTOR SHALL PROVIDE A DESIGN OF THE HELICAL PILE TO MEET THE BELOW STANDARDS SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT.
- THE HELICAL PILE CONTRACTOR IS RESPONSIBLE FOR SELECTION OF CONSTRUCTION MEANS, METHODS, SEQUENCING AND VERIFYING ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- HELICAL MICROPILES SHALL BE DESIGNED FOR THE FOLLOWING ALLOWABLE LOADS:
  - DESIGN/ALLOWABLE COMPRESSION LOAD PER PILE = 24 KIPS
  - DESIGN/ALLOWABLE TENSION LOAD PER PILE = 6 KIPS
  - DESIGN/ALLOWABLE LATERAL LOAD PER PILE = 2 KIPS
- A FACTOR OF SAFETY OF 2.0 SHALL BE APPLIED TO THE ALLOWABLE LOADS TO DETERMINE THE ULTIMATE CAPACITY PER HELICAL MICROPILE.
- THE GEOTECHNICAL REPORT AND BORING LOGS DATED (JUNE 19, 2014) PREPARED BY DR. CLARENCE WELTI P.E. P.C SHALL BE CONSIDERED TO BE REPRESENTATIVE OF THE IN-SITU SUBSURFACE CONDITIONS LIKELY TO BE ENCOUNTERED ON THE PROJECT SITE AND THUS THE BASIS FOR HELICAL MICROPILE DESIGN.
- MINIMUM REQUIRED DEPTH FROM FINISHED GRADE = 40 FEET
- HELICAL MICROPILES SHALL CONSIST OF A 6" UNCASED GROUT COLUMN 38 FEET BELOW PILE CAP.
  - SEE DETAIL 1 FOR PILE TYPE LIMITS BELOW AND ABOVE GRADE.
- CENTRAL SHAFT PILE TYPE: 1 1/2" SOLID SHAFT OR AS REQUIRED.
  - THE CENTRAL SHAFT SHALL EXTEND FROM THE LEAD SECTION TO THE UNDERSIDE OF THE HOME.

10. LEAD SECTION HELIX PLATES: 10-12-14 OR AS REQUIRED.

- TERMINATION: CONSTRUCTION CAP FOR COMPRESSION.
- REQUIRED FIELD INSTALLATION TORQUE = 5000 FT-LBS
- BASED ON AN EMPIRICAL TORQUE FACTOR,  $K_T = XX$  FT-I

14. GROUT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150 TYPE I OR TYPE II.
  - ADMIXTURES MAYBE REQUIRED AND SHOULD BE DISCUSSED WITH THE ENGINEER.
  - THE WATER - CEMENT RATIO FOR NEAT CEMENT GROUTS IS TYPICALLY 0.45.
15. ALL HELICAL PILE MATERIAL SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153/A123.
16. ABOVE AND BELOW GRADE STEEL PIPE MATERIAL SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153/A123.
17. IT IS RECOMMENDED THAT PRODUCTION TEST PILES BE PERFORMED TO VERIFY THE SUITABILITY AND CAPACITY OF THE PROPOSED HELICAL PILE, AND THE PROPOSED INSTALLATION PROCEDURES PRIOR TO INSTALLATION. THE TEST IS TO EMPIRICALLY VERIFY THE ULTIMATE CAPACITY TO THE AVERAGE INSTALLING TORQUE OF THE HELICAL PILE FOR THE PROJECT SITE. A SIMPLE TEST PROBE PILE IS SUFFICIENT.
18. A TORQUE INDICATOR SHALL BE USED DURING HELICAL MICROPILE INSTALLATION AND SHALL BE CAPABLE OF PROVIDING CONTINUOUS MEASUREMENT OF APPLIED TORQUE THROUGHOUT THE INSTALLATION.
  - TORQUE INDICATORS SHALL BE CALIBRATED EITHER ON-SITE OR AT AN APPROPRIATELY EQUIPPED TEST FACILITY AND RE-CALIBRATED, IF IN THE OPINION OF THE OWNER AND/OR CONTRACTOR REASONABLE DOUBT EXISTS AS TO THE ACCURACY OF THE TORQUE MEASUREMENTS.
19. IF THE MINIMUM INSTALLATION TORQUE AS SHOWN ON THE WORKING DRAWINGS IS NOT ACHIEVED AT THE MINIMUM OVERALL LENGTH, THE CONTRACTOR SHALL INSTALL THE HELICAL MICROPILE DEEPER, ADD MORE OR LARGER HELIX PLATES, DE-RATE THE LOAD CAPACITY OF THE HELICAL PILE AND/OR INSTALL ADDITIONAL PILE(S) AT THE DISCRETION OF THE ENGINEER AND/OR OWNER.

SLAB ON GRADE

- CONTROL JOINTS ARE TO BE CREATED IN SLABS ON GRADE. JOINTS SHALL BE SAW CUT 1/8" WIDE AND TO A DEPTH EQUAL TO 1/4 OF THE SLAB THICKNESS. LOCATE JOINTS 15'-0" ON CENTER (PLUS OR MINUS 5'-0") IN EACH DIRECTION, UNLESS OTHERWISE SHOWN ON DRAWINGS. CONSTRUCTION JOINTS AS REQUIRED SHALL BE KEYPED AND LOCATED AT CONTROL JOINT INTERVALS.

CONCRETE

MATERIALS:

CONCRETE SHALL DEVELOP STRENGTH IN 28 DAYS AS FOLLOWS:

LOCATION STRENGTH (PSI)

FOUNDATIONS 4000  
SLABS ON GRADE 4000

- ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".

LOCATION STRENGTH (PSI)

FOUNDATIONS 4000  
SLABS ON GRADE 4000

- ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
- REINFORCING STEEL SHALL BE 60,000 PSI YIELD.
- NO TACK WELDING OF REINFORCING WILL BE PERMITTED.
- UNLESS NOTED OTHERWISE, ALL LAP SPLICES SHALL BE CLASS B, IN ACCORDANCE WITH ACI 318-02.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A\_185.
- WIRE MESH REINFORCEMENT MUST LAP ONE MESH SIZE AT SIDES AND ENDS AND BE WIRED TOGETHER.
- WELDED WIRE FABRIC SIDE LAPS SHALL BE STAGGERED TO AVOID FOUR MESH THICKNESS AT COINCIDING END LAP AND SIDE LAP LOCATION.
- NO CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE BY WEIGHT OF ADMIXTURE SHALL BE USED IN THE CONCRETE.
- AT INTERSECTIONS OF REINFORCED CONCRETE WALLS, PROVIDE CORNER DOWELS OF SAME SIZE AND AT THE SAME SPACING AS THE SMALLER HORIZONTAL REINFORCING. DOWELS SHALL HAVE A CLASS B LAP WITH HORIZONTAL REINFORCING IN EACH DIRECTION.
- PROVIDE CORROSION RESISTANT ACCESSORIES IN ALL EXPOSED CONSTRUCTION.

- ALL KEYS IN CONCRETE WALLS SHALL BE 2 X 4 UNLESS NOTED OTHERWISE.
- CONCRETE PIERS: PLACE CONCRETE PIERS AND WALLS TOGETHER. SET PIER REINFORCING AND SET WALL REINFORCING THROUGH PIER VERTICAL BARS. PROVIDE DOWELS WITH STANDARD HOOK FROM FOOTING AT ALL PIERS. SIZE AND QUANTITY OF DOWELS TO MATCH VERTICAL PIER REINFORCING (CLASS "B" SPLICE).
- ALL CONCRETE TO REMAIN EXPOSED TO VIEW SHALL RECEIVE A SMOOTH RUBBED FINISH (SEE SPECIFICATIONS).
- ALL CONCRETE CORNERS WITH BOTH SIDES EXPOSED TO VIEW SHALL BE SQUARE UNLESS OTHERWISE SHOWN OR NOTED. THE EDGE SHALL BE RUBBED, PRODUCING A SMOOTH, DENSE SURFACE WITHOUT PITS OR IRREGULARITIES.
- PROVIDE CLEARANCE FROM EDGE OF REINFORCING TO EDGE OF CONCRETE AS FOLLOWS:

FOUNDATIONS (AGAINST EARTH)	3"
GRADE BEAMS (BOTTOM REINFORCING)	3"
COLUMNS AND PIERS (VERTICAL REINFORCING)	2"
SLABS ON GRADE (W.W.F.)	1/3 X THK. FROM TOP SURFACE

- PROVIDE NO OPENINGS IN CONCRETE BEAMS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS.
- JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. THERE SHALL BE NO HORIZONTAL JOINTS IN BEAMS OR SUSPENDED SLABS.
- PROVIDE THE FOLLOWING AT OPENINGS IN ALL CONCRETE WALLS AND FRAMED SLABS, UNLESS OTHERWISE INDICATED:
  - #5 AT EACH FACE ON EACH SIDE OF OPENING, EXTENDING 2'-0" BEYOND OPENING.
  - #5 X 4'-0" LONG AT EACH FACE DIAGONALLY AT EACH CORNER.
- REINFORCING STEEL SHOP DRAWINGS SHALL INDICATE THE SEQUENCE IN WHICH LAYERS OF CROSSING REINFORCING SHOULD BE PLACED, IN ORDER TO PRODUCE THE CORRECT OUTERMOST LAYER AS INDICATED ON THE DRAWINGS.

STRUCTURAL STEEL

MATERIALS:

STRUCTURAL STEEL W-SHAPES ASTM A 572, GR.50  
STRUCTURAL STEEL NOT INCLUDED ABOVE ASTM A 36  
ANCHOR BOLTS ASTM A307  
WELDING ELECTRODE ASTM E 70

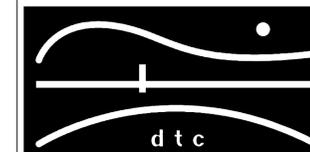
- DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO CURRENT AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION.
- WELDING SHALL CONFORM TO THE CODE FOR "ARC AND GAS WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
- ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH A.W.S. STANDARDS.
- PROVIDE 9/16" DIAMETER HOLES FOR WOOD NAILERS AS REQUIRED.
- PROVIDE 8" X 8" X 5/8" GALVANIISED BEARING PLATES FOR ALL BEARING BEAMS UNLESS NOTED OTHERWISE.
- EXISTING STEEL SURFACES TO RECEIVE FIELD WELDS SHALL BE THOROUGHLY CLEANED UNTIL FREE FROM PAINT, RUST, GREASE, ETC.

WOOD FRAMING

- LUMBER FOR WOOD JOISTS, RAFTERS AND BEAMS SHALL BE DOUGLAS FIR, LARCH NUMBER 2 GRADE, WITH 19% MAXIMUM MOISTURE CONTENT AND MINIMUM SAFE STRENGTH CAPACITY OF:
  - $F_b = 900$  PSI FOR BENDING
  - $F_c$  (perp.) = 625 PSI FOR COMPRESSION PERP. TO GRAIN
  - $F_c$  (par.) = 1350 PSI FOR COMPRESSION PARALLEL TO GRAIN
  - $F_v = 125$  PSI FOR HORIZONTAL SHEAR
  - $E = 1,600,000$  PSI MODULUS OF ELASTICITY
- FLOOR JOIST BRIDGING:
  - PROVIDE 1" X 3" DIAGONAL BRIDGING (OR EQUIVALENT) AT 8'-0" MAXIMUM ON CENTER.
- CUTTING AND NOTCHING: IN BEAMS, JOISTS AND RAFTERS, CUTS SHALL NOT BE DEEPER THAN SHOWN ON DRAWINGS, AND IN NO CASE DEEPER THAN 1/5 THE DEPTH OF THE BEAM, JOIST OR RAFTER.
- CONNECTIONS AND FASTENINGS: ALL MEMBERS SHALL BE FASTENED AT THEIR JUNCTIONS WITH APPROVED CONNECTORS, SPIKES, NAILS, STRAPS, OR OTHER DEVICES.
- DOUBLE UP JOISTS AND RAFTER UNDER ALL HVAC UNITS, UNDER ALL PARTITIONS, AND ELSEWHERE AS INDICATED ON THE DRAWINGS.
- ALL OPENINGS SHALL BE FRAMED WITH DOUBLE POSTS, DOUBLE JOISTS OR DOUBLE RAFTERS AND HEADERS ON END (UPRIGHT), UNLESS OTHERWISE INDICATED.
- CONNECT RAFTERS, JOISTS AND HEADERS FRAMING INTO THE SIDES OF OTHER WOOD MEMBERS WITH FORMED "SADDLE" TYPE JOIST HANGERS, MADE FROM 18 GA. GALVANIZED STEEL PER ASTM A93. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- MEMBERS INDICATED THUS: "LVL" SHALL BE LAMINATED VENEER LUMBER, "MICROLAM" SECTIONS WITH THE FOLLOWING MINIMUM MATERIAL PROPERTIES:
  - $F_b = 2600$  PSI
  - $F_c$  (perp.) = 750 PSI
  - $F_c$  (par.) = 2510 PSI
  - $F_v = 285$  PSI
  - $E = 1,900,000$  PSI
- ALL EXTERIOR WOOD SHALL BE PEAASURE TREATED.
- ALL PARALLAM PSL PLUS MEMBERS SHALL HAVE THE FOLLOWING PROPERTIES AND BE PEAASURE TREATED (WOLMANIZED):
  - $F_b = 2900$  PSI
  - $F_c$  (perp) = 750 PSI
  - $F_c$  (par) = 2900 PSI
  - $F_v = 290$  PSI
  - $E = 2,000,000$  PSI

NOTES:

REVISIONS



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OORR  
APPLICATION NO. 1253  
MASURY RESIDENCE  
31 MOREHOUSE AVE.  
MILFORD, CT

GENERAL NOTES

DTC PROJECT NUMBER: 13-449-009

DTC DRAWING FILE:

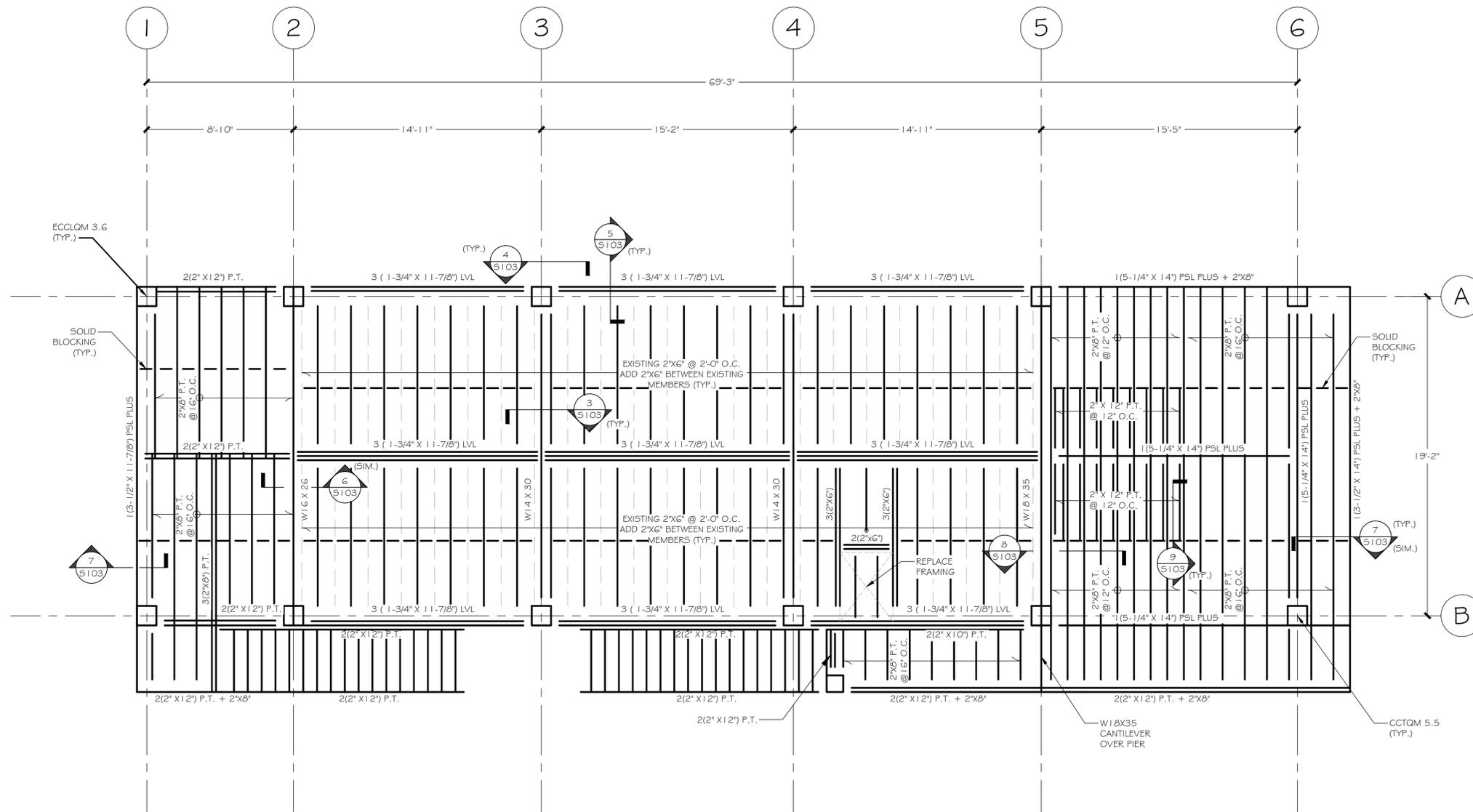
SCALE: 1:1 DRAWN BY: REM  
DATE: 8/20/2014 CHECKED BY:

SHEET:

S-100



NOTES:



NOTES:  
 ALL EXTERIOR DECK AREA TO BE 1" COMPOSITE PLANKING  
 # LOCATED 4-3/8" BELOW INT. FLOOR ELEVATION.  
 VERIFY EXISTING INTERIOR FLOOR ELEVATION IN FIELD.

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



REVISIONS



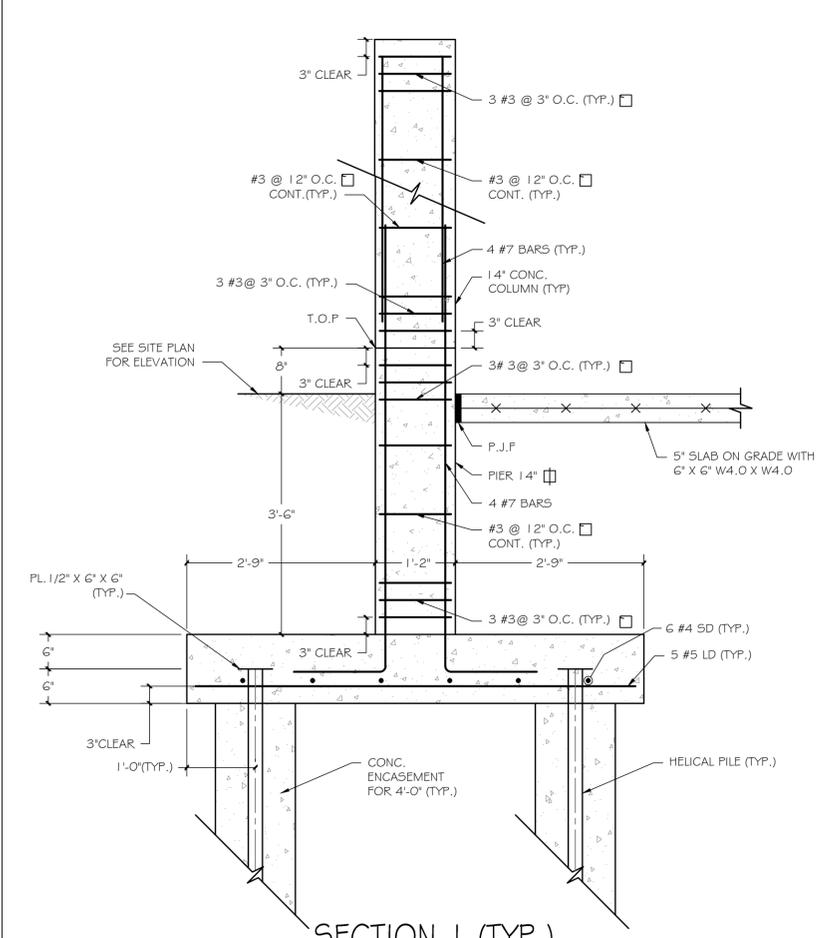
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 MILFORD, CT

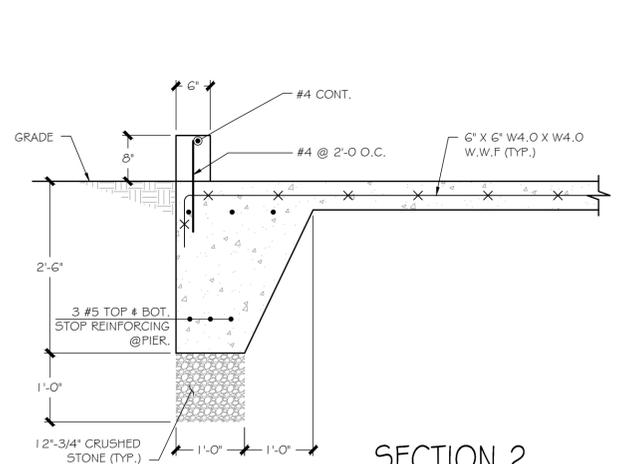
**FLOOR FRAMING PLAN**

DTC PROJECT NUMBER: 13-449-009	
DTC DRAWING FILE:	
SCALE: 1/4"=1'-0"	DRAWN BY: REM
DATE: 8/20/2014	CHECKED BY:
SHEET:	

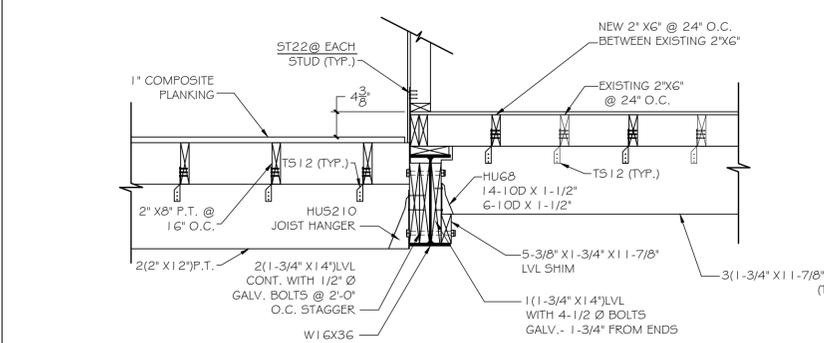
**S-102**



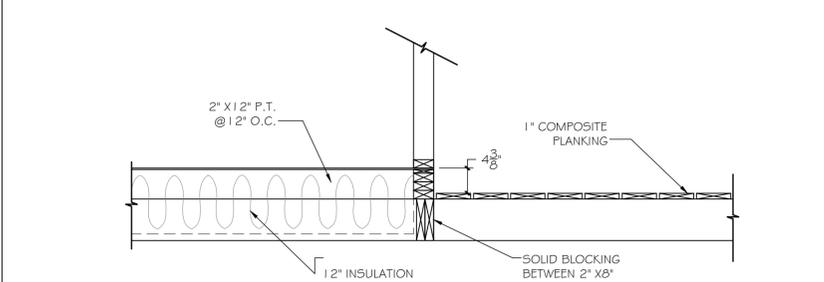
**SECTION 1 (TYP.)**  
SCALE: 3/4" = 1'



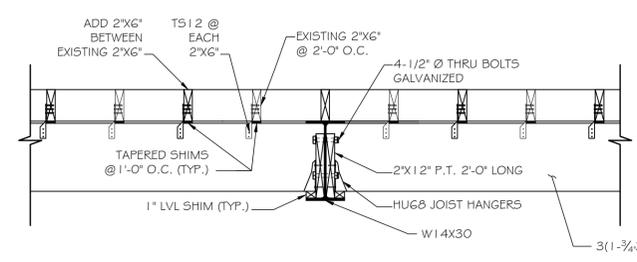
**SECTION 2**  
SCALE: 3/4" = 1'



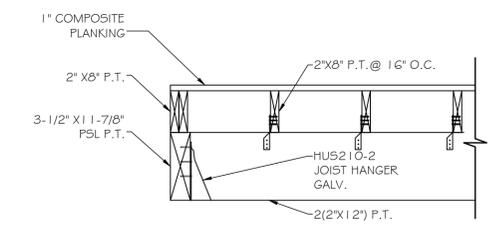
**SECTION 6**  
SCALE: 3/4" = 1'



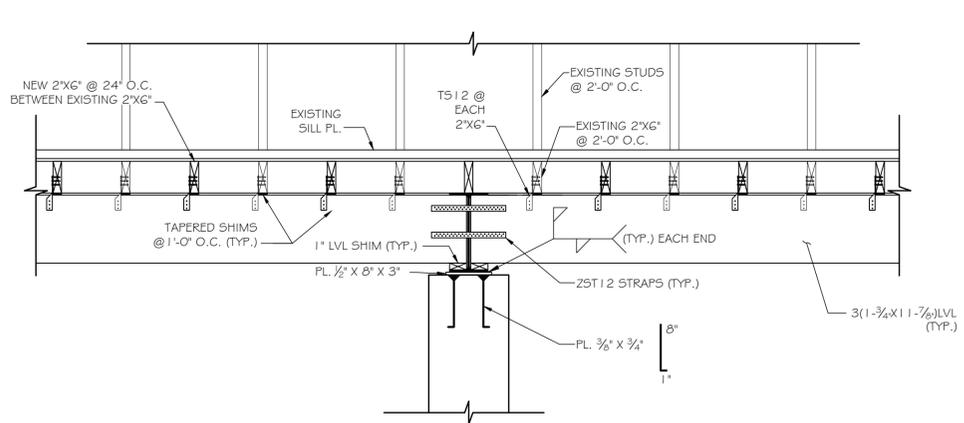
**SECTION 9**  
SCALE: 3/4" = 1'



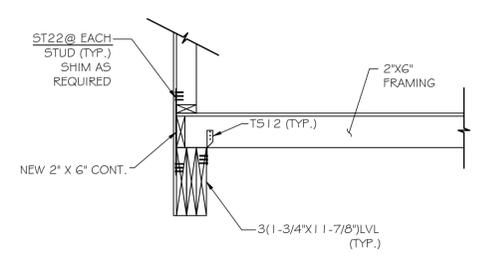
**SECTION 3**  
SCALE: 3/4" = 1'



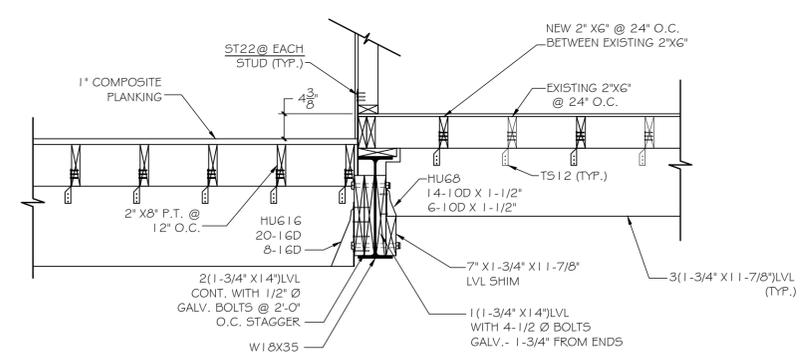
**SECTION 7**  
SCALE: 3/4" = 1'



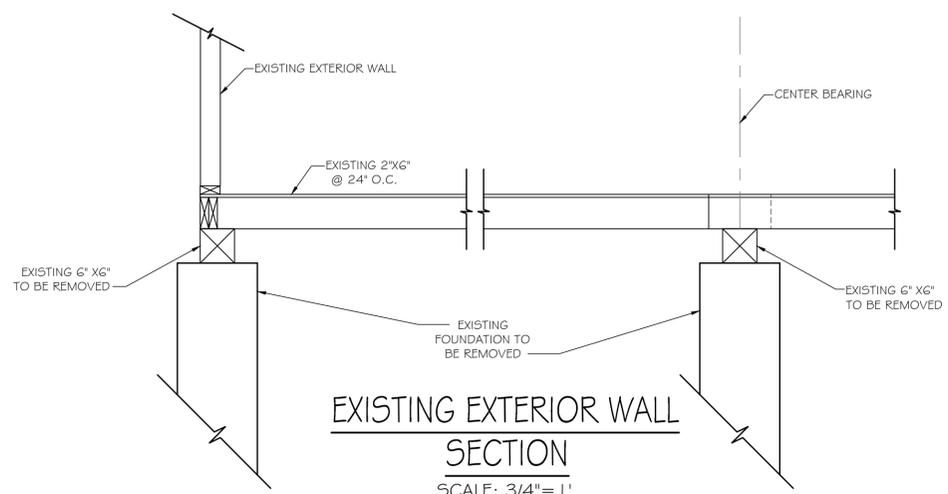
**SECTION 4**  
SCALE: 3/4" = 1'



**SECTION 5**  
SCALE: 3/4" = 1'



**SECTION 8**  
SCALE: 3/4" = 1'



**EXISTING EXTERIOR WALL SECTION**  
SCALE: 3/4" = 1'

NOTES:

REVISIONS



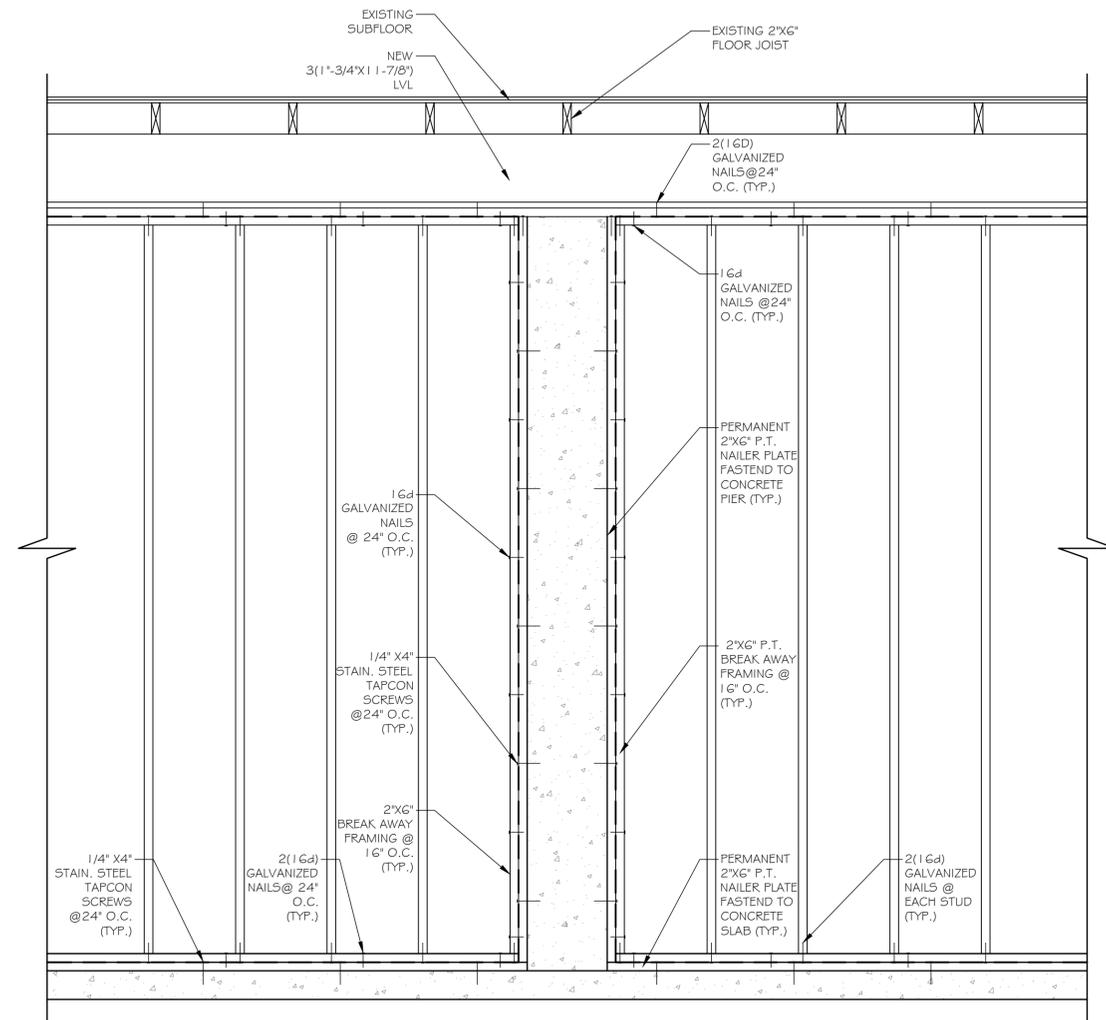
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**OOR**  
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MASURY RESIDENCE  
31 MOREHOUSE AVE.  
MILFORD, CT

SECTIONS

DTC PROJECT NUMBER: 13-449-009  
DTC DRAWING FILE:  
SCALE: 3/4"=1'-0" DRAWN BY: REM  
DATE: 8/20/2014 CHECKED BY:

SHEET:  
**S-103**

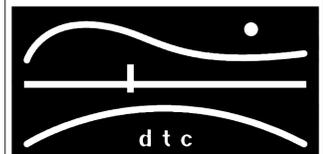


**BREAK AWAY WALL DETAILS**

SCALE: 3/4" = 1'

NOTES:

REVISIONS



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**BREAK AWAY  
WALL DETAILS**

DTC PROJECT NUMBER: 13-449-009

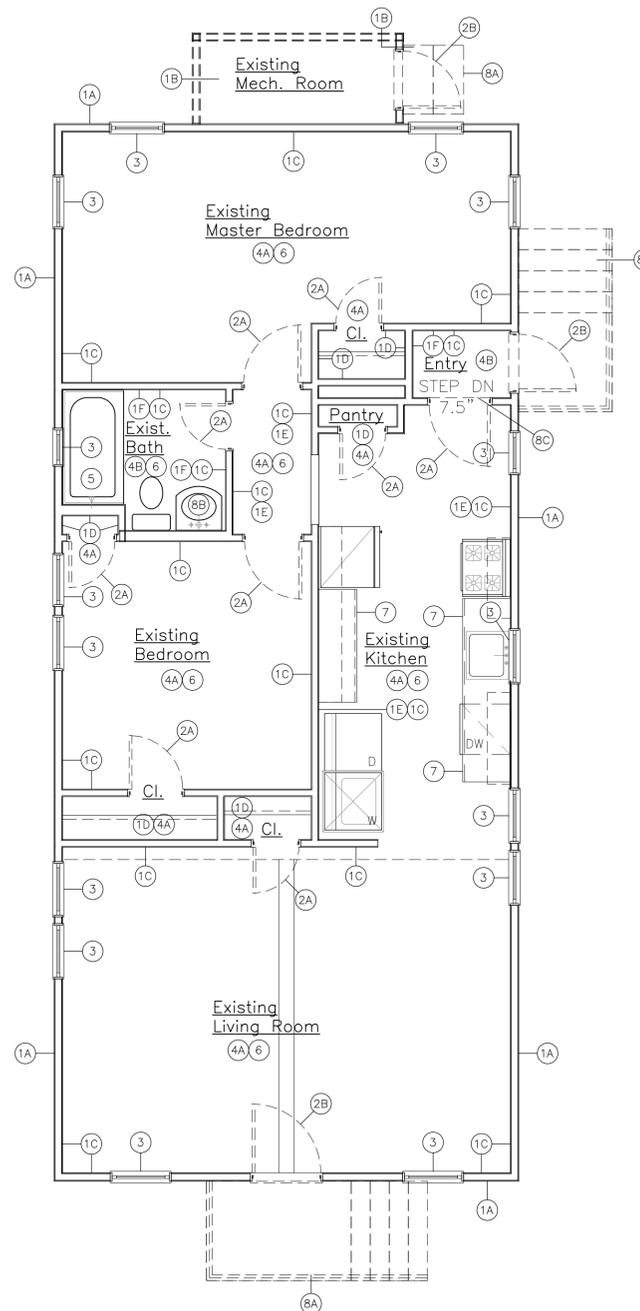
DTC DRAWING FILE:

SCALE: 3/4"=1'-0" DRAWN BY: REM

DATE: 8/20/2014 CHECKED BY:

SHEET:

**S-104**



**DEMOLITION KEY NOTES**

**WALLS**

- ①A REMOVE EXISTING EXTERIOR VINYL SIDING AND SHEATHING. STORE VINYL SIDING FOR RE-INSTALLATION AFTER RENOVATION.
- ①B REMOVE EXISTING EXTERIOR STUD/GYP. BOARD WALL ASSEMBLY.
- ①C REMOVE ALL EXISTING INTERIOR GYPSUM BOARD UP TO 4'-0".
- ①D REMOVE EXISTING INTERIOR PLYWOOD WALL SURFACE IN CLOSETS UP TO 4'-0".
- ①E REMOVE ALL EXISTING INTERIOR WOOD BEADBOARD & TRIM.
- ①F REMOVE EXISTING INTERIOR PLASTIC BEADBOARD & TRIM.

**DOORS**

- ②A REMOVE EXISTING DOOR, FRAME AND TRIM. STORE EXISTING HARDWARE TO BE RE-INSTALLED IN NEW DOORS.
- ②B REMOVE EXISTING EXTERIOR DOOR AND FRAME.

**WINDOWS**

- ③ REMOVE EXISTING SILLS, STORE FOR RE-INSTALLATION AFTER RENOVATION.

**FLOORS**

- ④A REMOVE EXISTING HARDWOOD FLOORING AND WOOD BASE. PATCH AS REQUIRED TO ACHIEVE SMOOTH AND LEVEL SUBSTRATE PER MANUF. SPEC. FOR NEW WOOD FLOORING.
- ④B REMOVE EXISTING CERAMIC TILE AND MORTAR. PATCH AS REQUIRED TO ACHIEVE SMOOTH AND LEVEL SUBSTRATE PER MANUF. SPEC. FOR NEW FLOOR TILE.

**PLUMBING**

- ⑤ REMOVE EXISTING BATHTUB & ASSOCIATED PLUMBING ACCESSORIES. PATCH REMAINING FLOOR AND WALL CONSTRUCTION TO ALLOW FOR INSTALLATION OF NEW BATHTUB.

**MECHANICAL**

- ⑥ REMOVE EXISTING BASEBOARD RADIATORS AND ASSOCIATED PIPING.

**MILLWORK**

- ⑦ REMOVE EXISTING MILLWORK BASE CABINETS. STORE EXISTING COUNTERTOP TO BE RE-INSTALLED ON NEW BASE CABINETS.

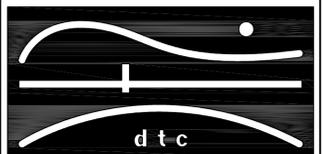
**MISCELLANEOUS**

- ⑧A REMOVE ALL EXISTING EXTERIOR STAIRS, LANDINGS AND HANDRAILS.
- ⑧B REMOVE EXISTING VANITY, STORE SINK COUNTERTOP AND FAUCET TO BE RE-INSTALLED ON NEW BASE CABINET.
- ⑧C REMOVE STEP DOWN TO MUD ROOM. RAISE FLOOR ELEVATION IN MUD ROOM TO ALIGN WITH FIRST FLOOR.

① **First Floor Demolition Plan**  
1/4"=1'-0"

NOTES:

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**31 MOREHOUSE AVE.**  
**MILFORD, CT 06460**

**First Floor Demolition Plan**

DTC PROJECT NUMBER: 13-449-009

DTC DRAWING FILE:

SCALE: AS NOTED

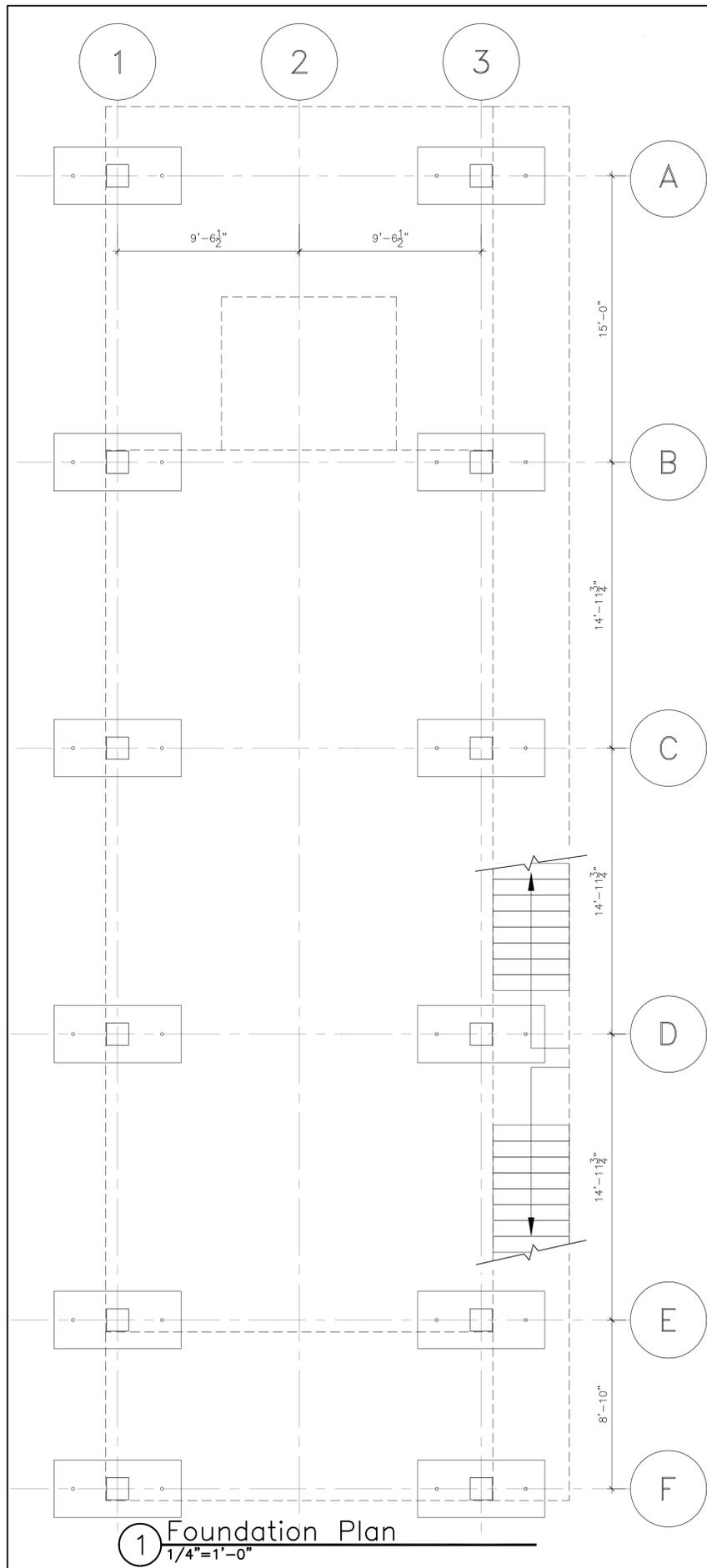
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DATE: 08/20/2014

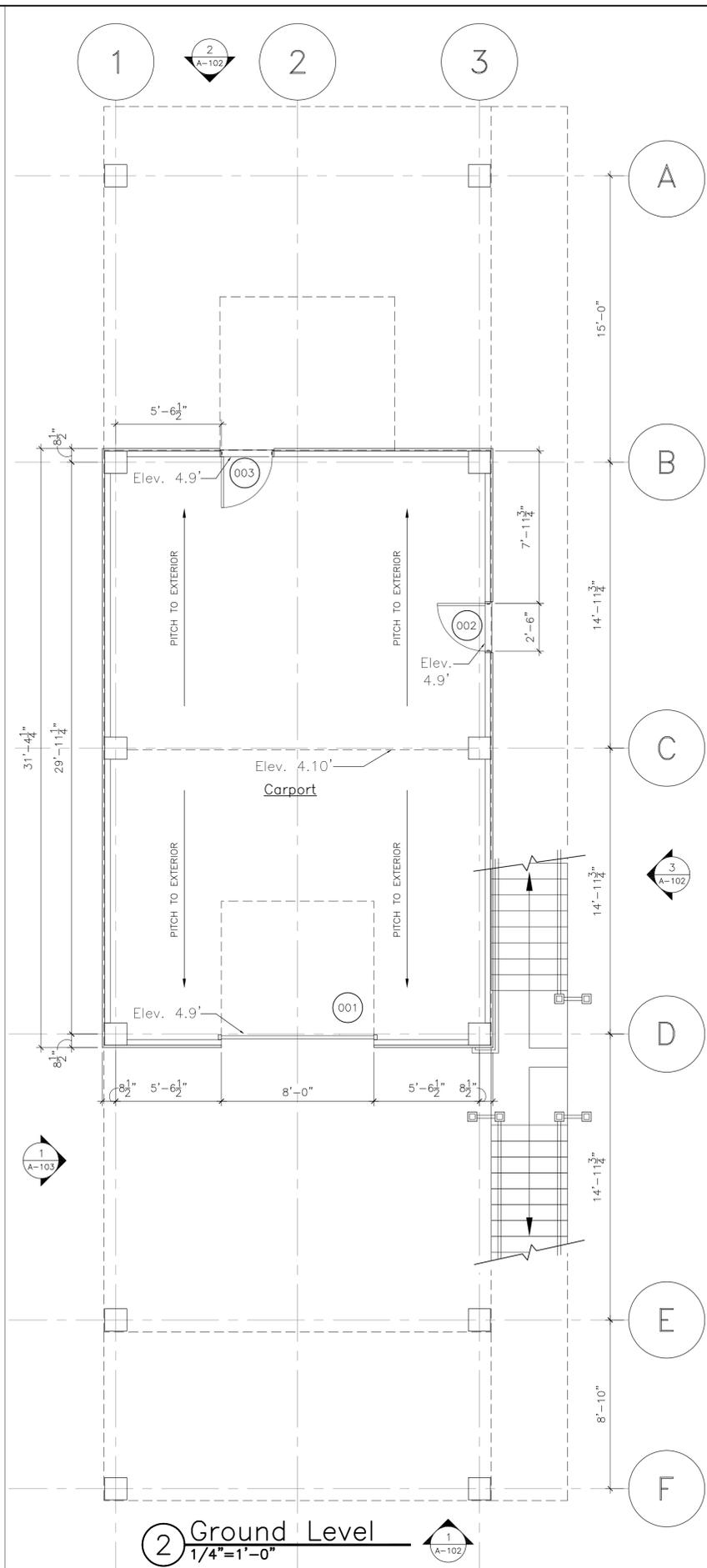
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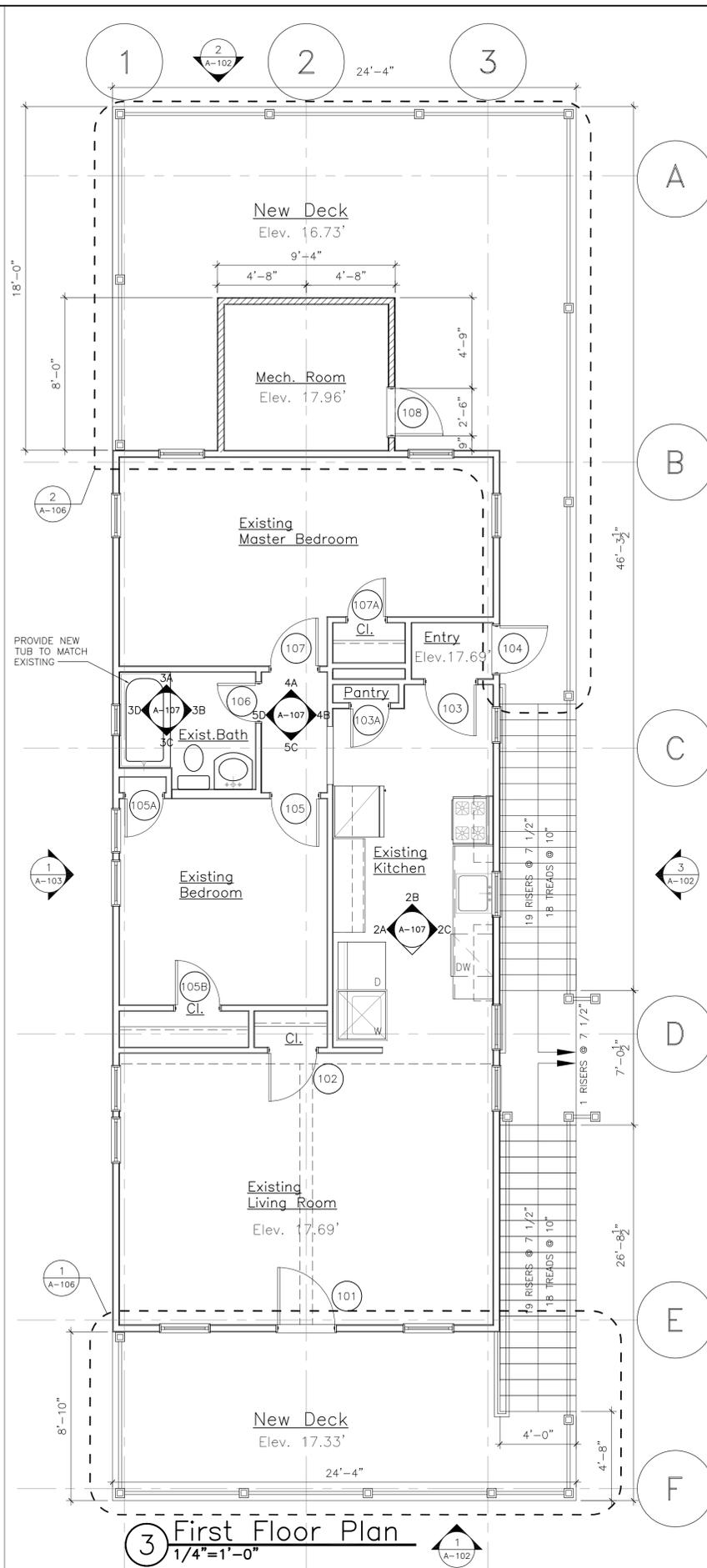
**D-101**



① Foundation Plan  
1/4"=1'-0"



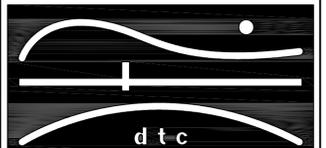
② Ground Level  
1/4"=1'-0"



③ First Floor Plan  
1/4"=1'-0"

NOTES:

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OORR  
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Foundation,  
Basement & First  
Floor Plans

DTC PROJECT NUMBER: 13-449-009

DTC DRAWING FILE:

SCALE: AS NOTED

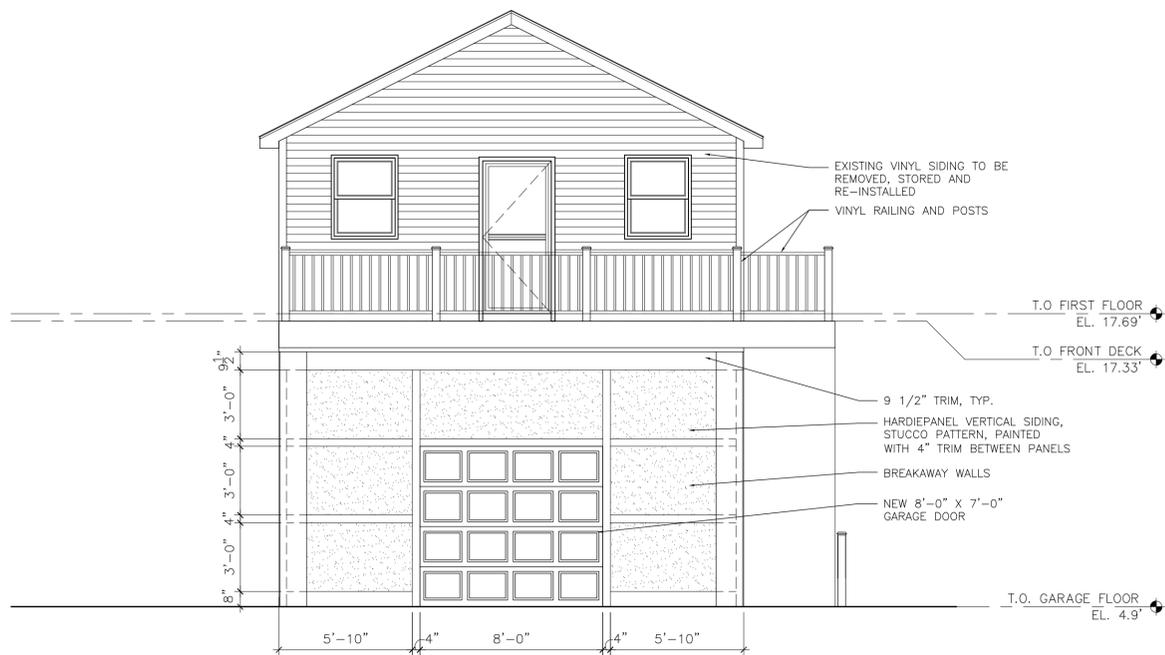
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DATE: 08/20/2014

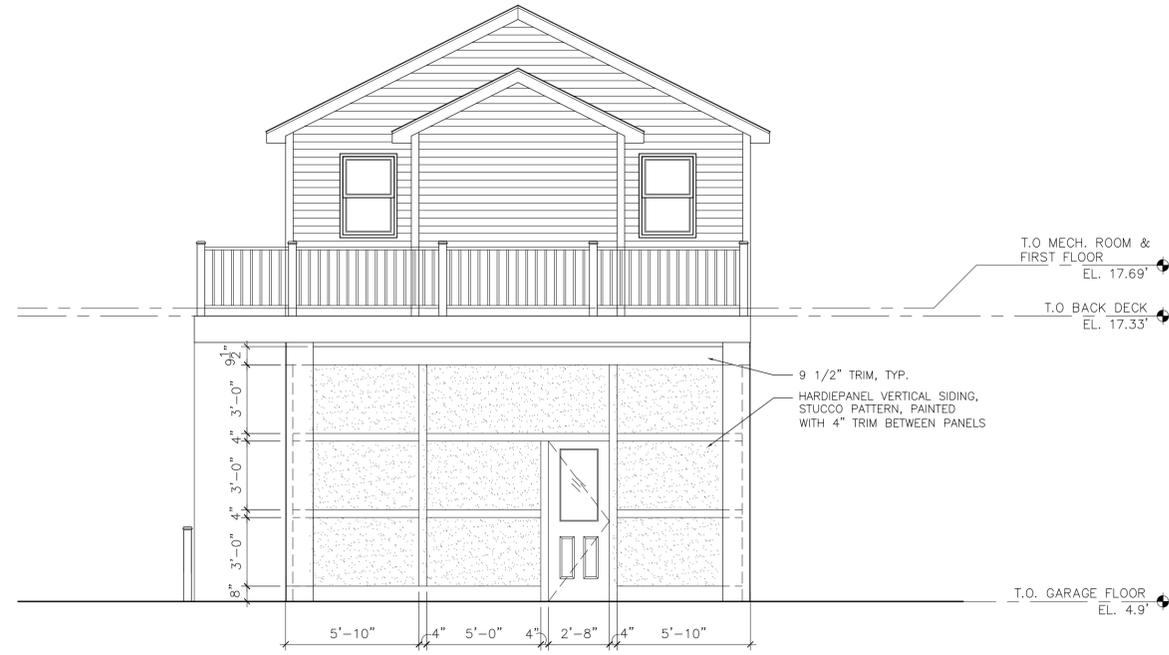
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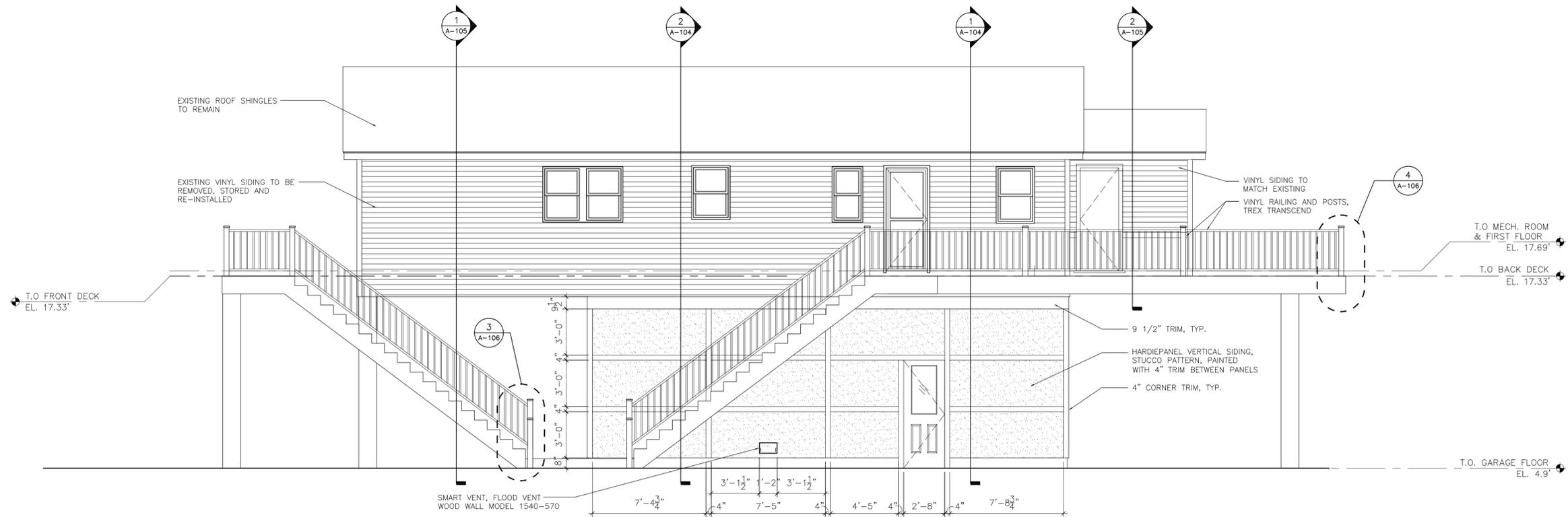
A-101



① North Elevation  
1/4"=1'-0"



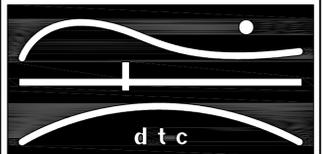
② South Elevation  
1/4"=1'-0"



③ West Elevation  
1/4"=1'-0"

NOTES:

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Exterior Elevations

DTC PROJECT NUMBER: 13-449-009

DTC DRAWING FILE:

SCALE: AS NOTED

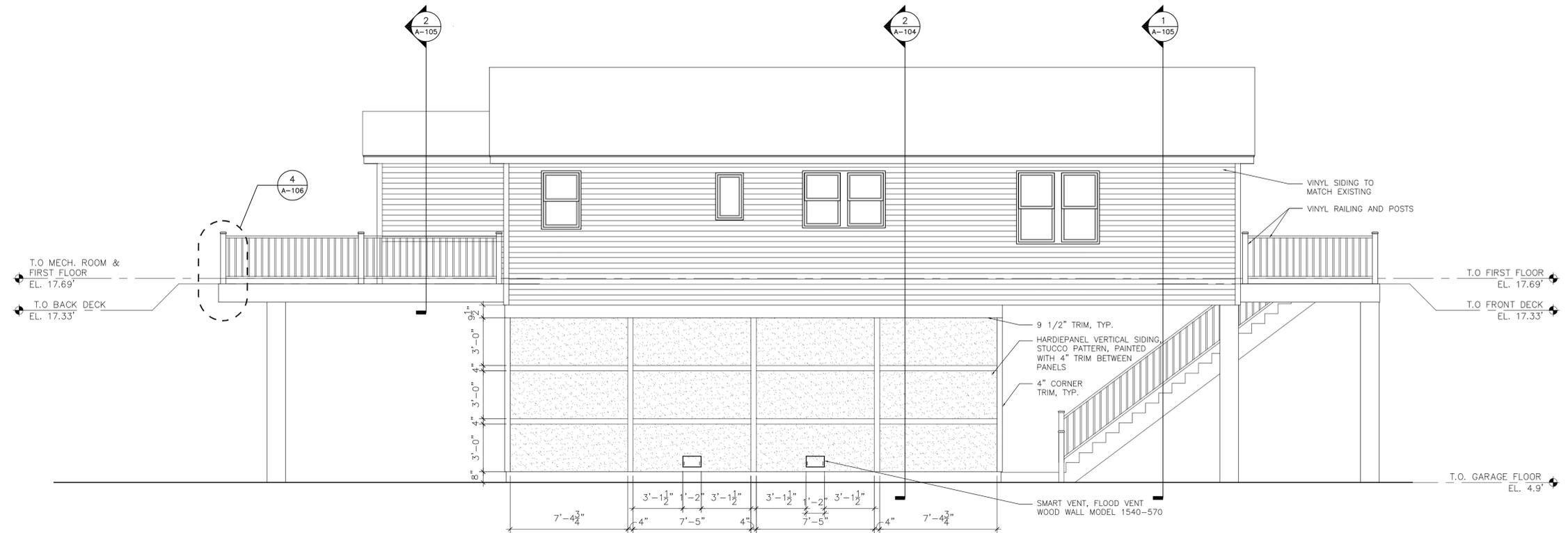
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DATE: 08/20/2014

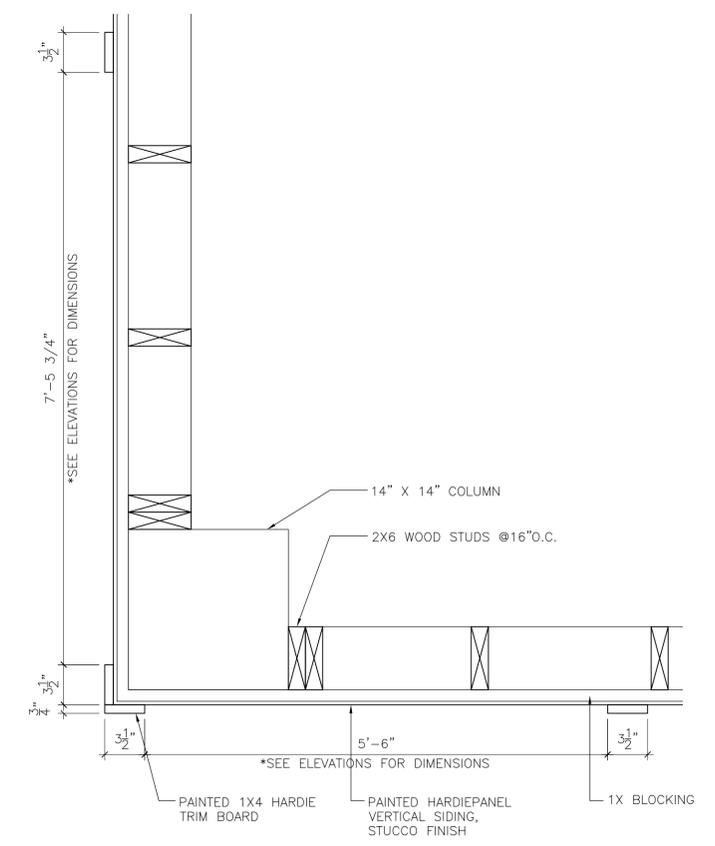
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SHEET:

A-102



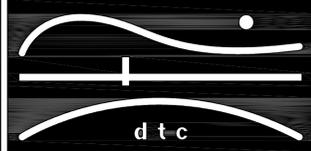
① East Elevation  
1/4" = 1'-0"



② Detail — Board and Batten Siding  
1/4" = 1'-0"

NOTES:

REVISIONS



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Exterior Elevation  
& Plan Detail

DTC PROJECT NUMBER: 13-449-009

DTC DRAWING FILE:

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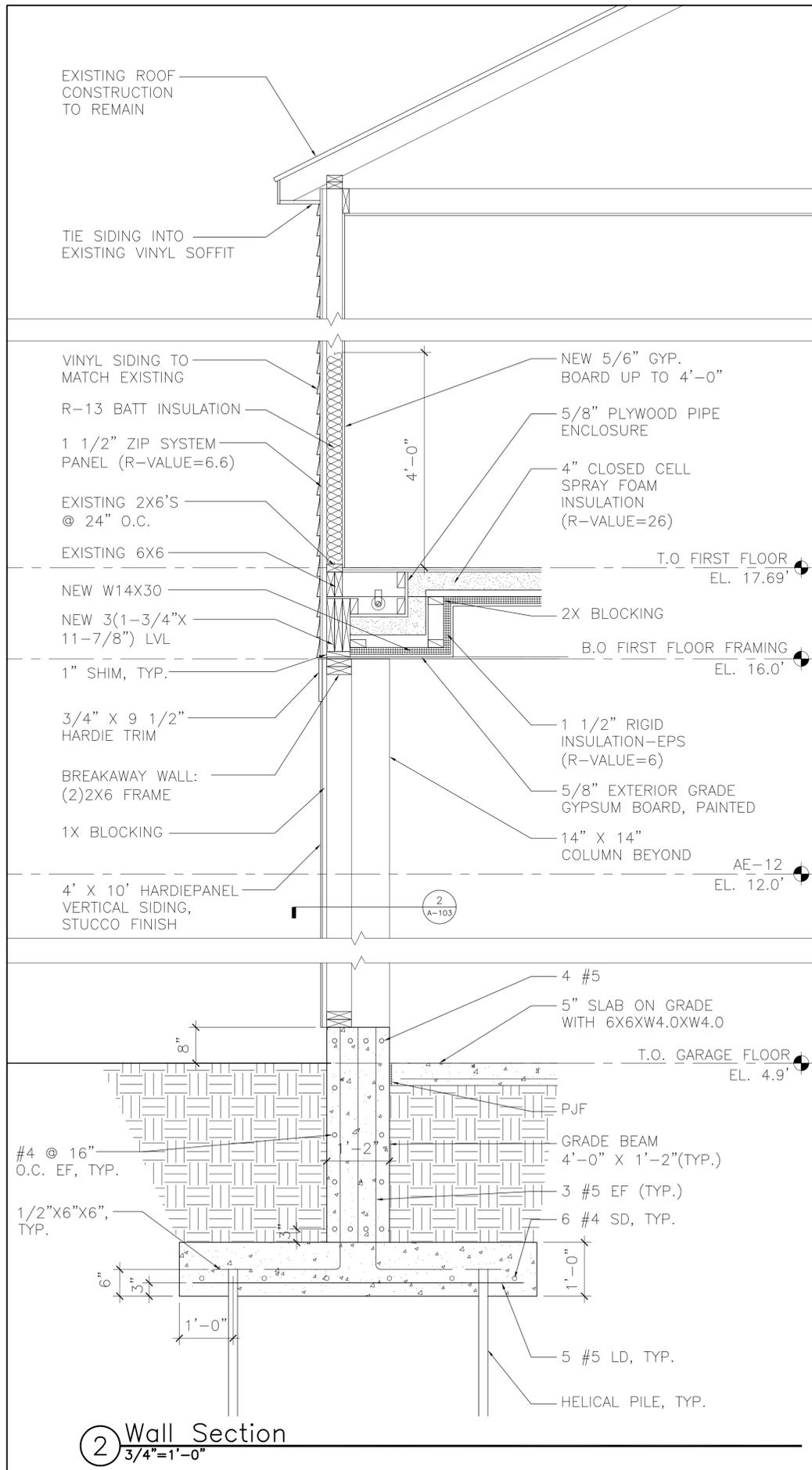
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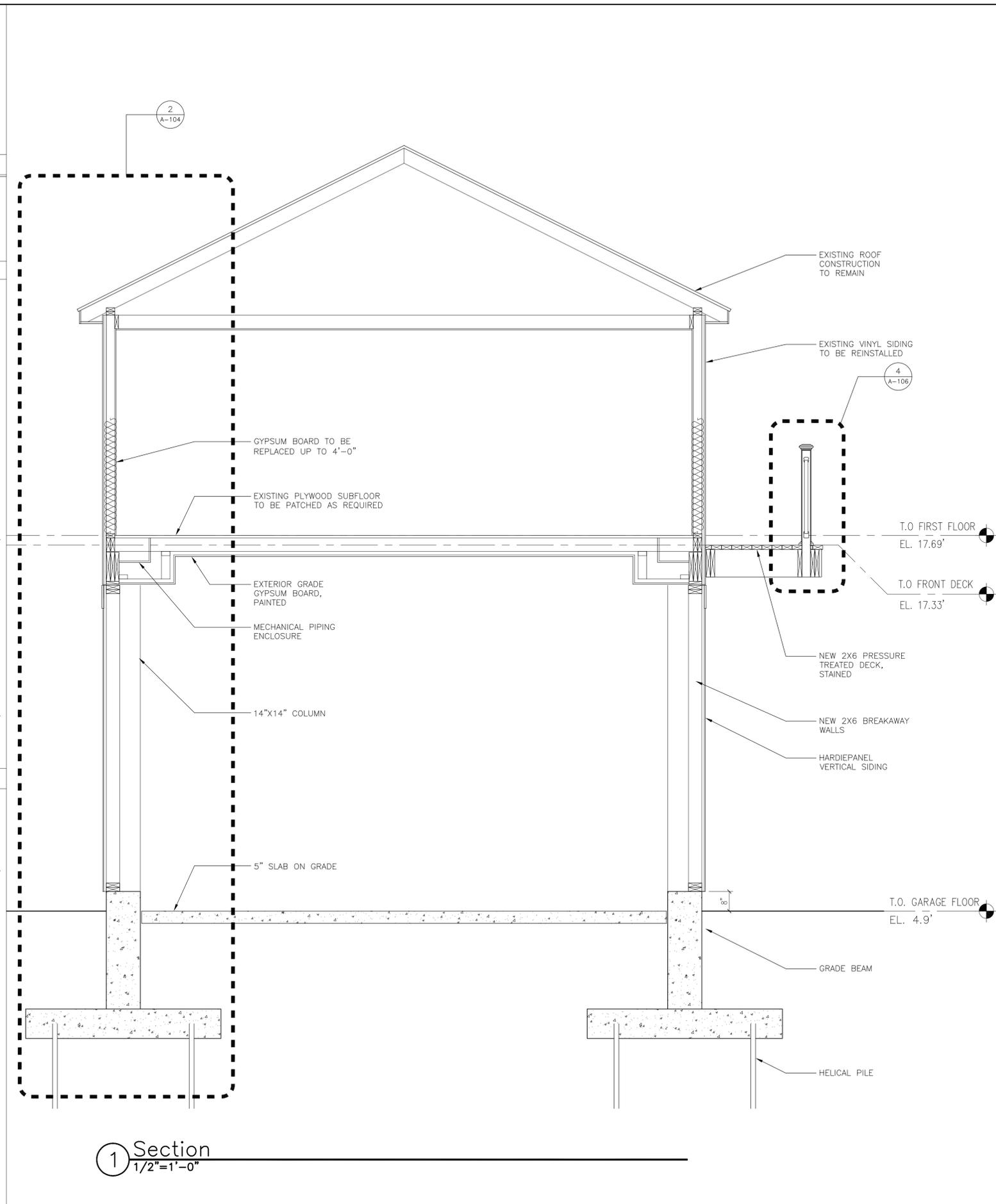
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A-103



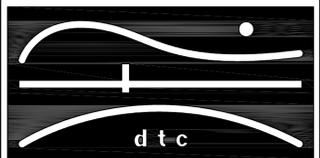
2 Wall Section  
3/4"=1'-0"



1 Section  
1/2"=1'-0"

NOTES:

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Sections & Details

DTC PROJECT NUMBER: 13-449-009

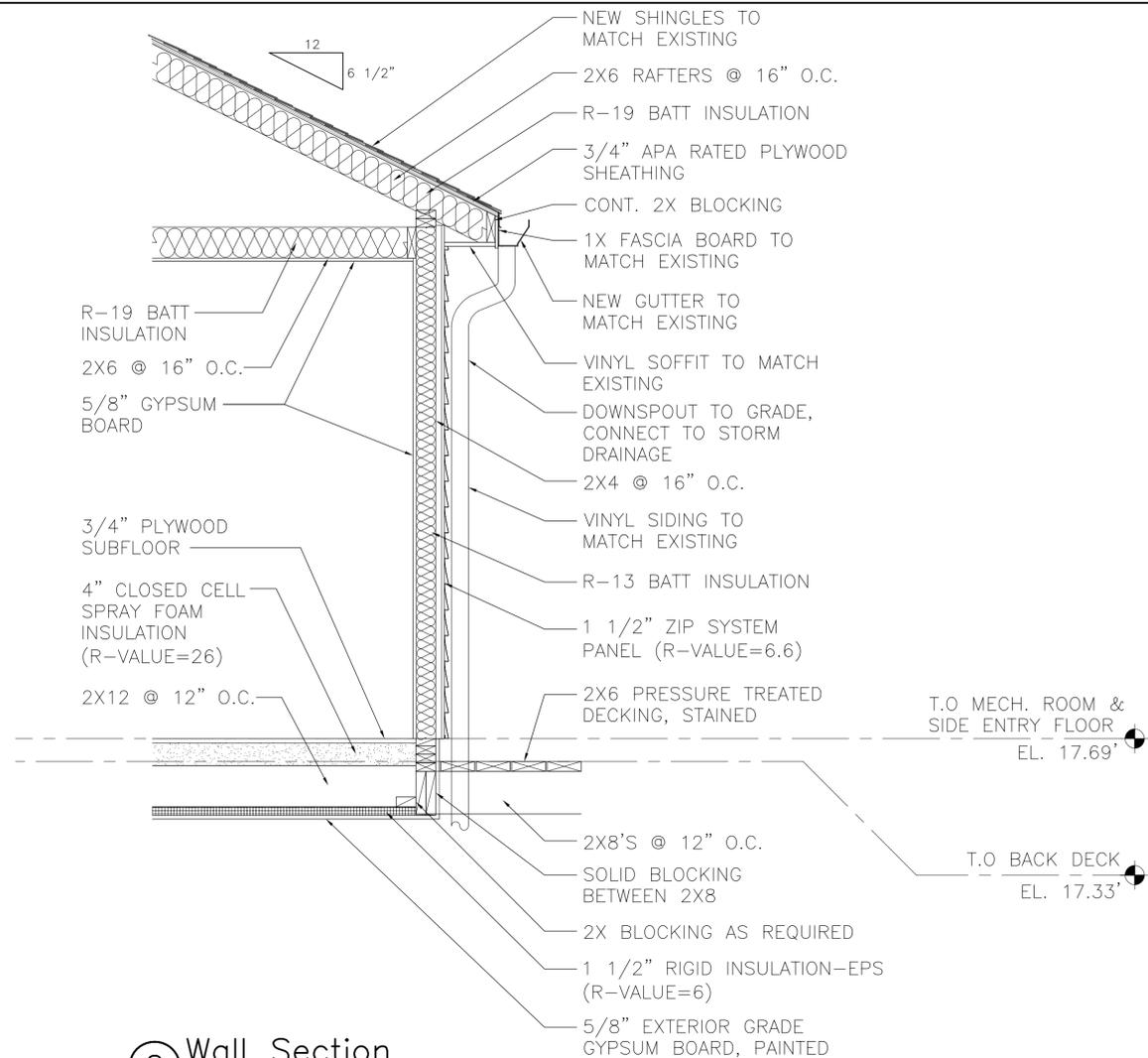
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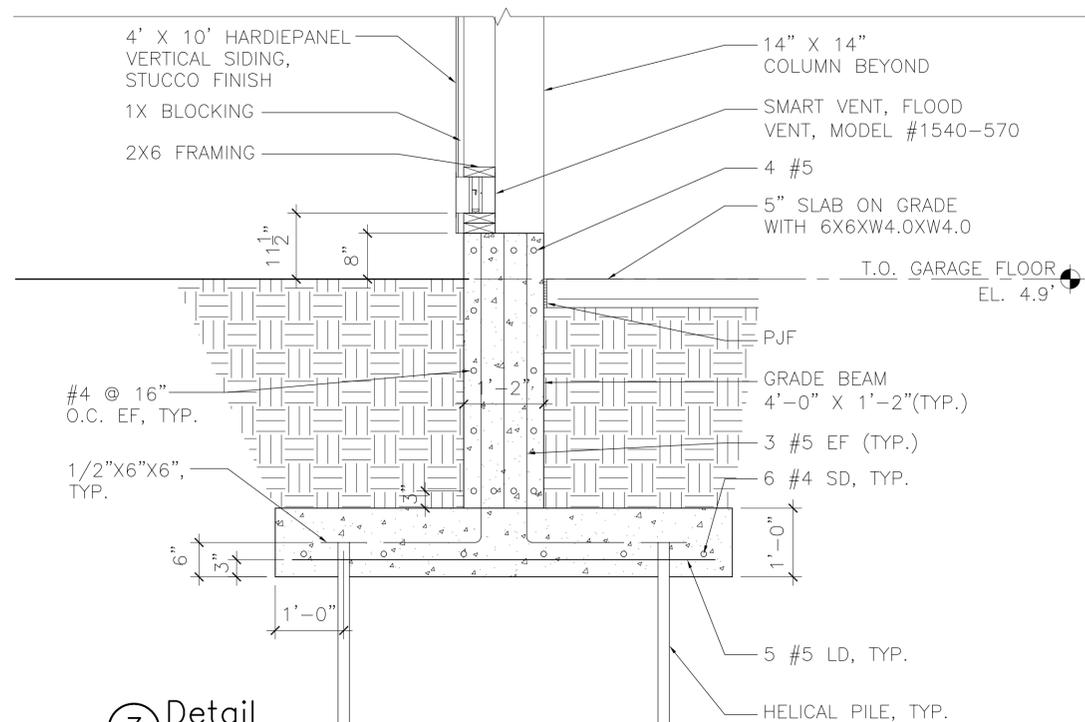
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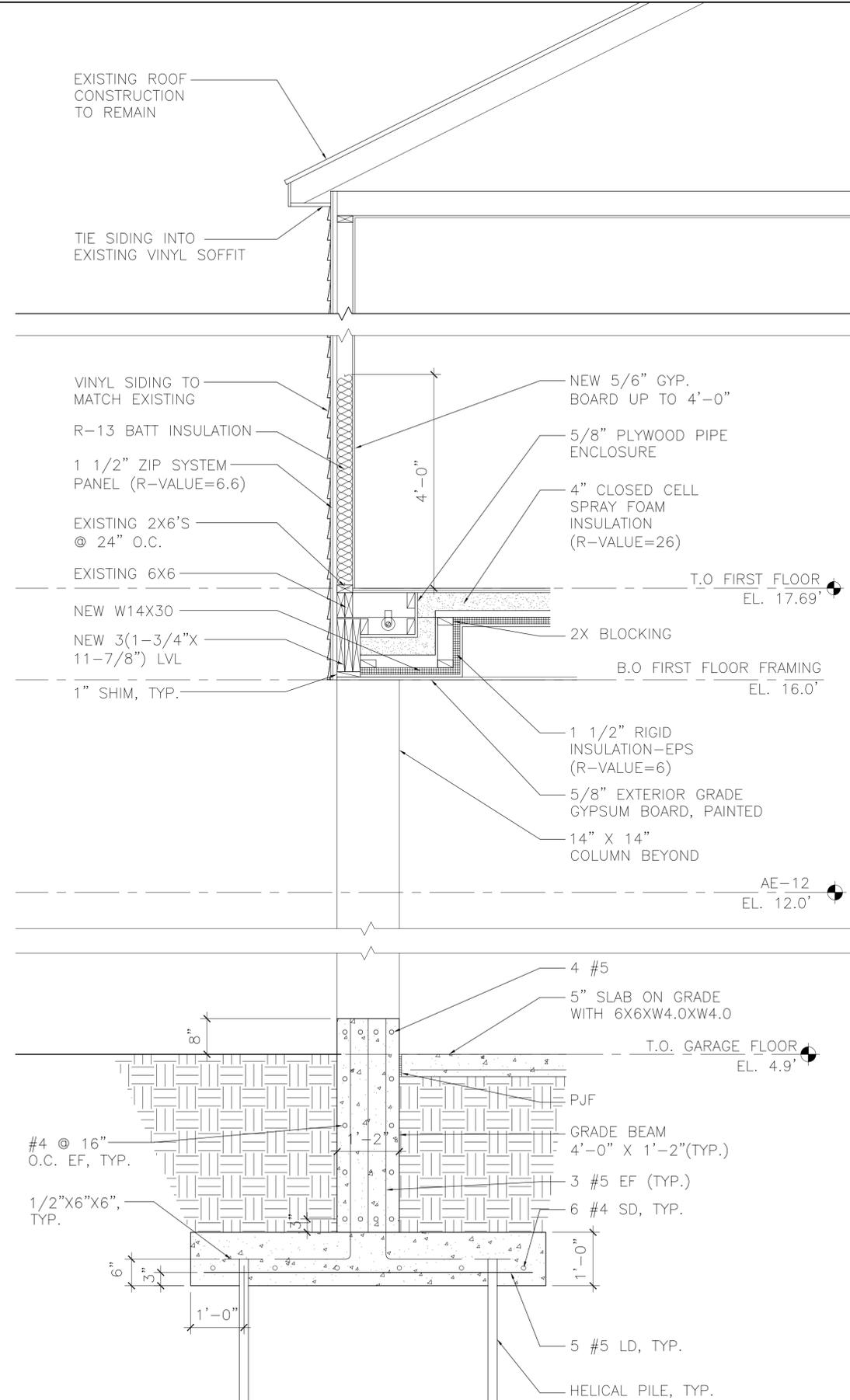
A-104



2 Wall Section  
3/4"=1'-0"



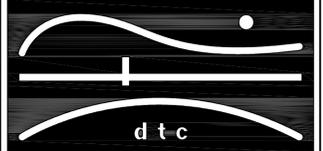
3 Detail  
3/4"=1'-0"



1 Wall Section  
3/4"=1'-0"

NOTES:

REVISIONS



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Wall Sections  
& Details

DTC PROJECT NUMBER: 13-449-009

DTC DRAWING FILE:

SCALE: AS NOTED

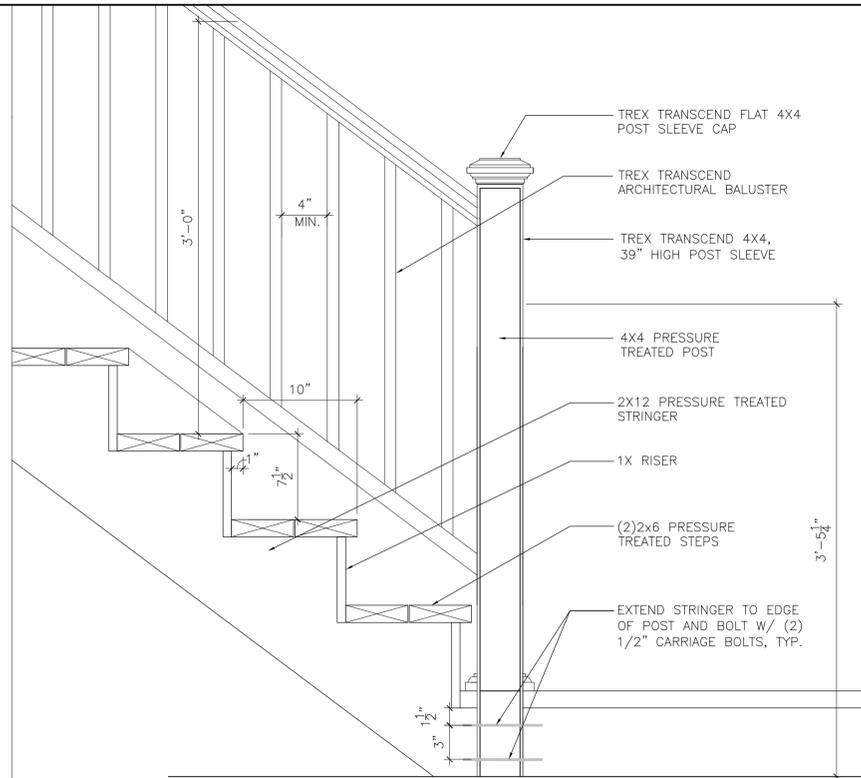
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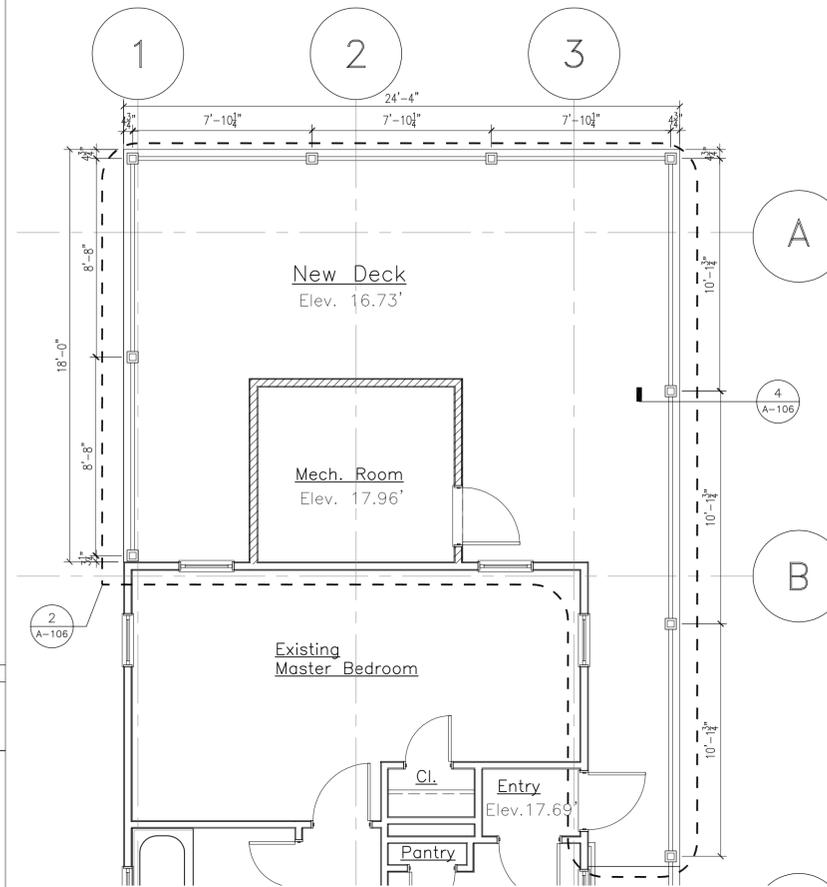
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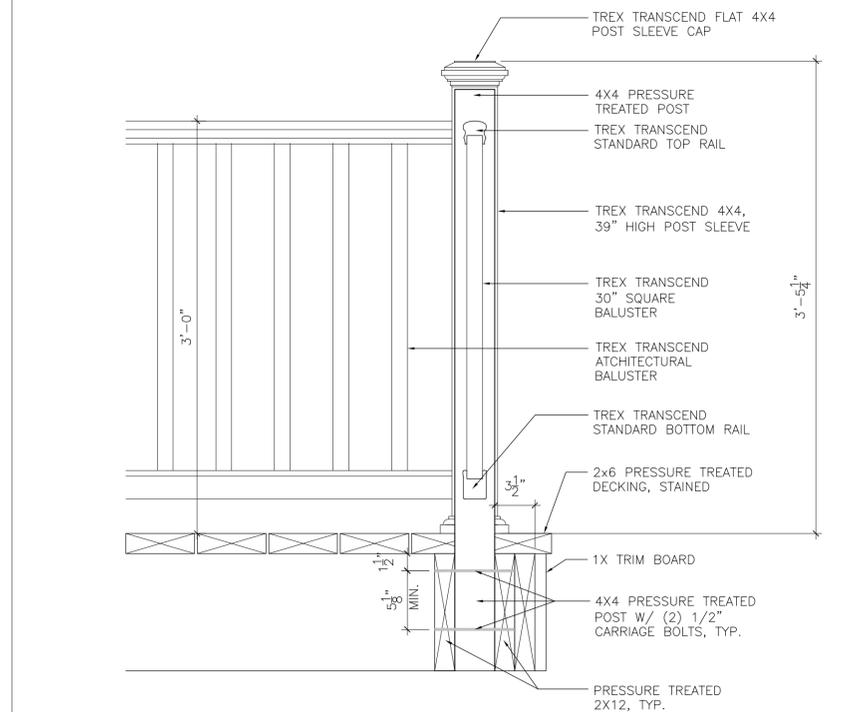
A-105



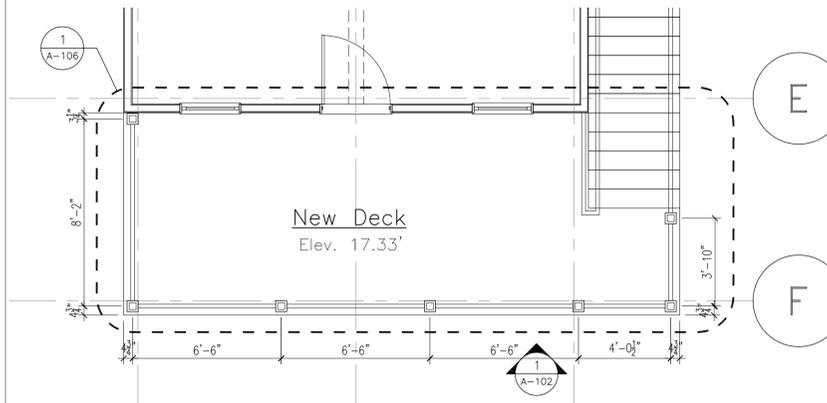
③ Stair Detail  
1/4"=1'-0"



② Back Deck Post Layout  
1/4"=1'-0"



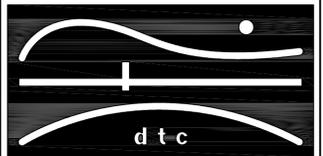
④ Railing/Post Detail  
1-1/2"=1'-0"



① Front Deck Post Layout  
1/4"=1'-0"

NOTES:

REVISIONS



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Deck and Stair  
Details

DTC PROJECT NUMBER: 13-449-009

DTC DRAWING FILE:

SCALE: AS NOTED

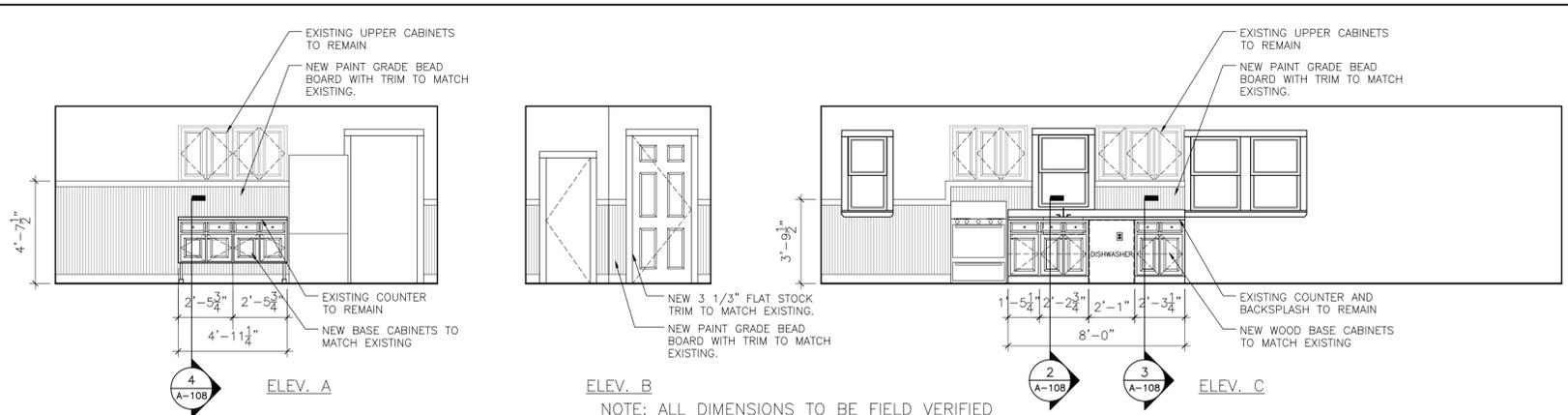
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DATE: 08/20/2014

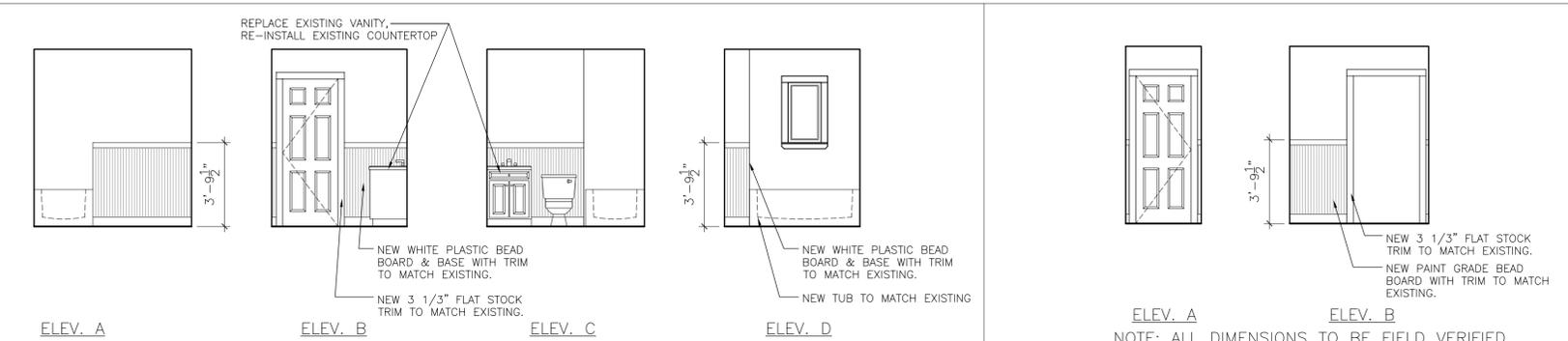
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A-106

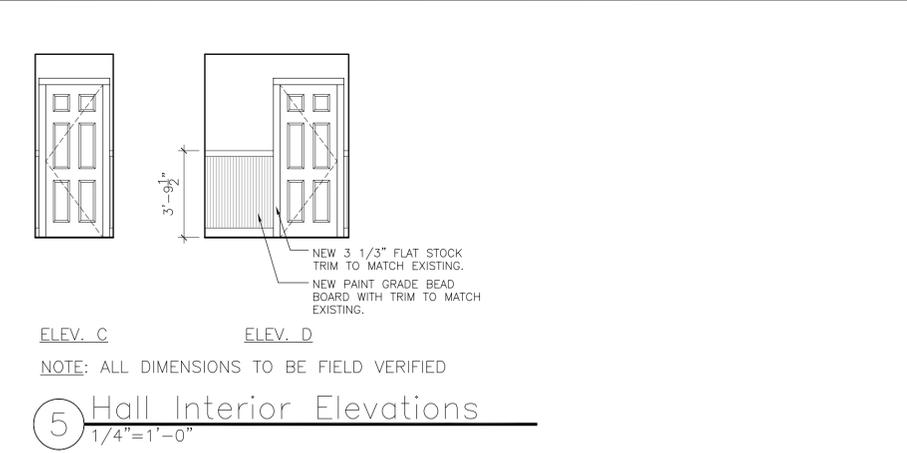


2 Kitchen Interior Elevations  
1/4"=1'-0"



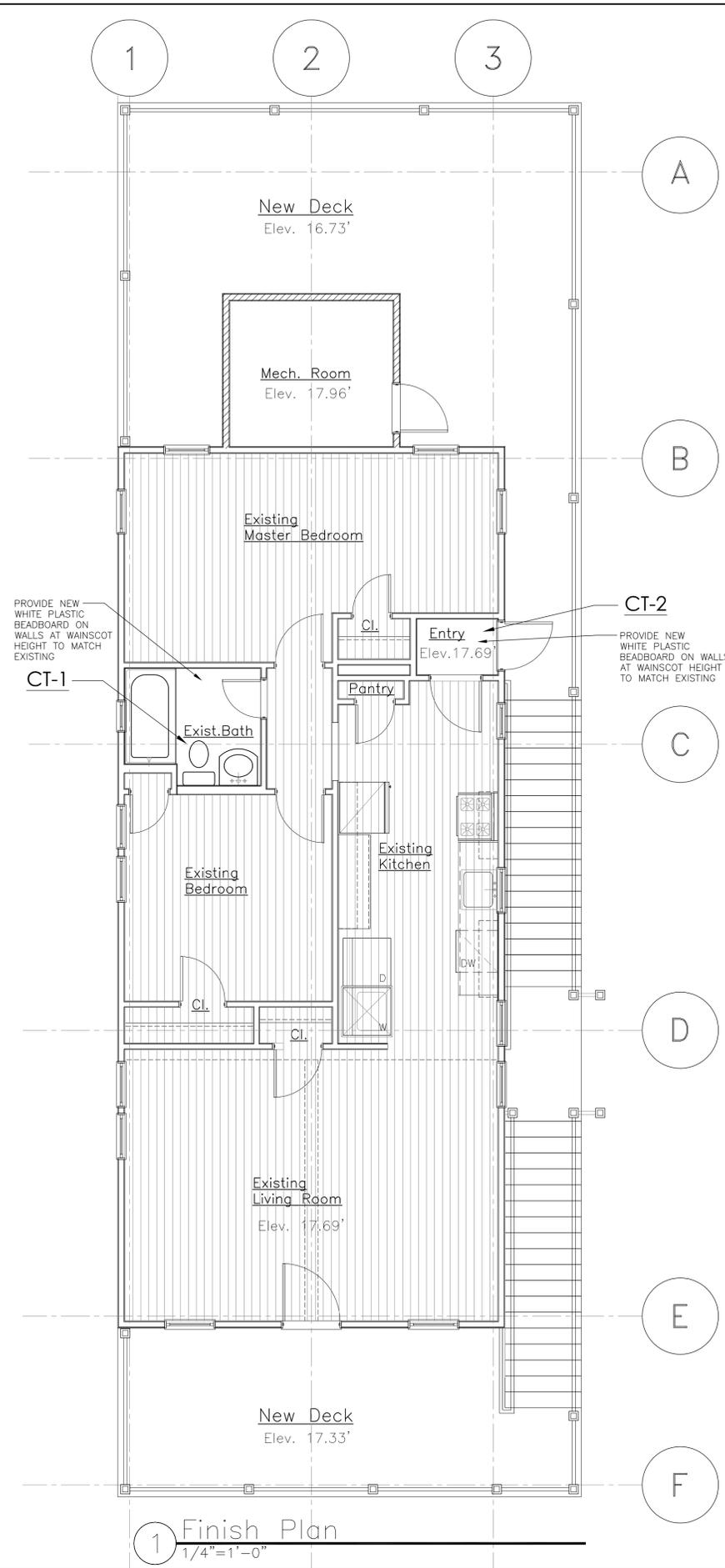
3 Bathroom Interior Elevations  
1/4"=1'-0"

4 Hall Interior Elevations  
1/4"=1'-0"



5 Hall Interior Elevations  
1/4"=1'-0"

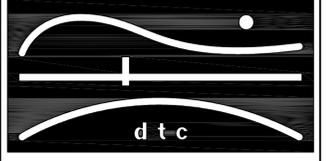
FINISH KEY	
SYMBOL	DESCRIPTION
	HARDWOOD FLOOR: MULLIGAN FLOORING, HICKORY NATURE, MODEL NO. 15520, ITEM NO. 106818 SPECIES: HICKORY COLOR NATURE OR: MULLIGAN FLOORING, HAND SCULPTED HICKORY MODEL NO. 14007, ITEM NO. 106818 SPECIES: HICKORY COLOR SADDLE
CT-1	FLOOR TILE TO MATCH EXISTING
CT-2	FLOOR TILE TO MATCH EXISTING



1 Finish Plan  
1/4"=1'-0"

NOTES:

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OORR  
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**Finish Plan & Interior Elevations**

DTC PROJECT NUMBER: 13-449-009

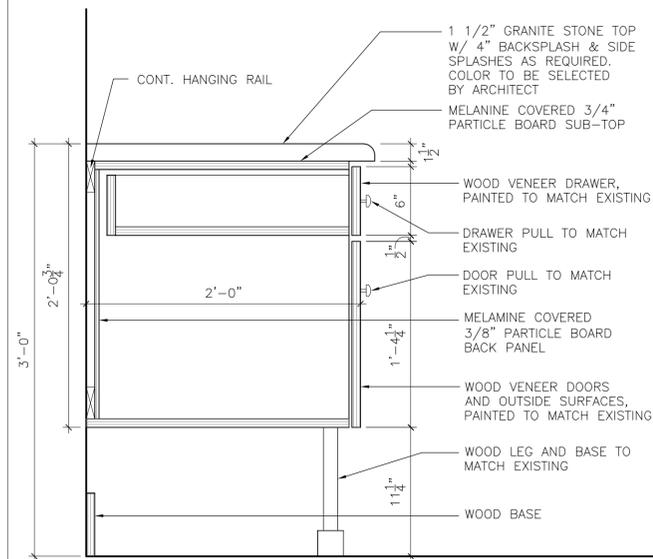
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SCALE: AS NOTED DRAWN BY: MB

DATE: 08/20/2014 CHECKED BY: MB

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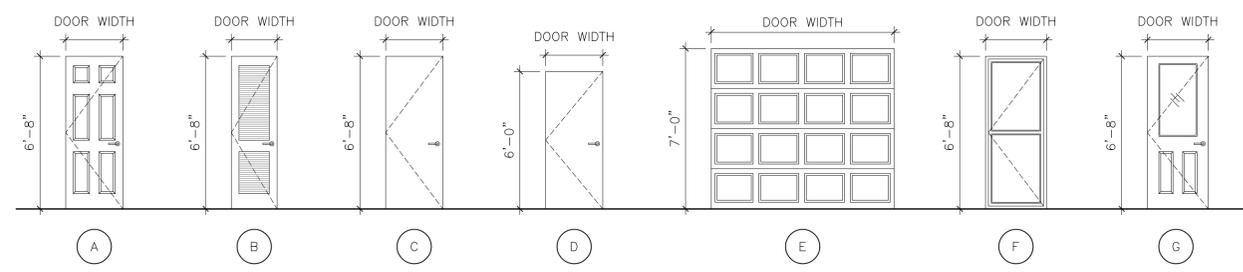


NOTE: ALL DIMENSIONS TO BE FIELD VERIFIED

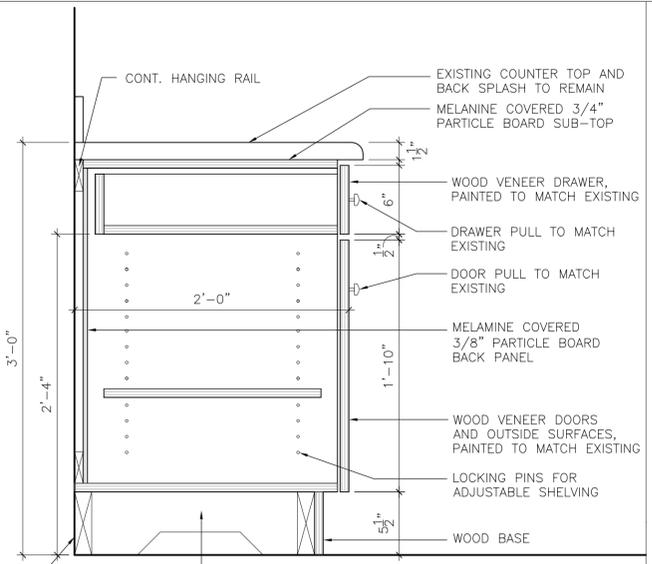
4 Base Cabinet Detail  
1 1/2"=1'-0"

DOOR SCHEDULE										
DOOR NO.	DOOR				FRAME		FIRE RATG	HDWR SET	REMARKS	
	SIZE	TYPE	MAT.	FIN.	MAT.	FIN.				
BASEMENT										
001	(1) 8'-0" x 7'-0"	E	F.G.	PTD	H.M.	PTD	-			
002	(1) 2'-8" x 7'-0"	G	F.G.	PTD	H.M.	PTD	-			
003	(1) 2'-8" x 7'-0"	G	F.G.	PTD	H.M.	PTD	-			
FIRST FLOOR										
101	(1) 3'-0" x 6'-8"	A,F	F.G.	PTD	H.M.	PTD	-	EXIST	PROVIDE STORM DOOR TO MATCH EXISTING	
102	(1) 2'-6" x 6'-8"	A	WD	PTD	WD	PTD	-	EXIST		
103	(1) 2'-8" x 6'-8"	A	F.G.	PTD	H.M.	PTD	-	EXIST		
103A	(1) 2'-0" x 6'-0"	D	WD	PTD	WD	PTD	-	EXIST		
104	(1) 2'-6" x 6'-8"	F	F.G.	PTD	H.M.	PTD	-	EXIST	PROVIDE STORM DOOR TO MATCH EXISTING	
105	(1) 2'-6" x 6'-8"	A	WD	PTD	WD	PTD	-	EXIST		
105A	(1) 2'-0" x 6'-8"	B	WD	PTD	WD	PTD	-	EXIST		
105B	(1) 2'-4" x 6'-8"	B	WD	PTD	WD	PTD	-	EXIST		
106	(1) 2'-0" x 6'-8"	A	WD	PTD	WD	PTD	-	EXIST		
107	(1) 2'-6" x 6'-8"	A	WD	PTD	WD	PTD	-	EXIST		
107A	(1) 2'-0" x 6'-8"	B	WD	PTD	WD	PTD	-	EXIST		
108	(1) 2'-6" x 6'-8"	C	H.M.	PTD	H.M.	PTD	-	EXIST		

- GENERAL NOTES:
1. ALL DOOR SIZES TO BE CONFIRMED WITH EXISTING OPENING.
  2. ALL INTERIOR DOORS ARE 1 3/8" THICK AND EXTERIOR DOORS 1 3/4" THICK, UNLESS OTHERWISE NOTED.
  3. EXISTING HARDWARE TO BE RE-USED, UNLESS OTHERWISE NOTED
  4. DOOR MATERIAL TO MATCH EXISTING.

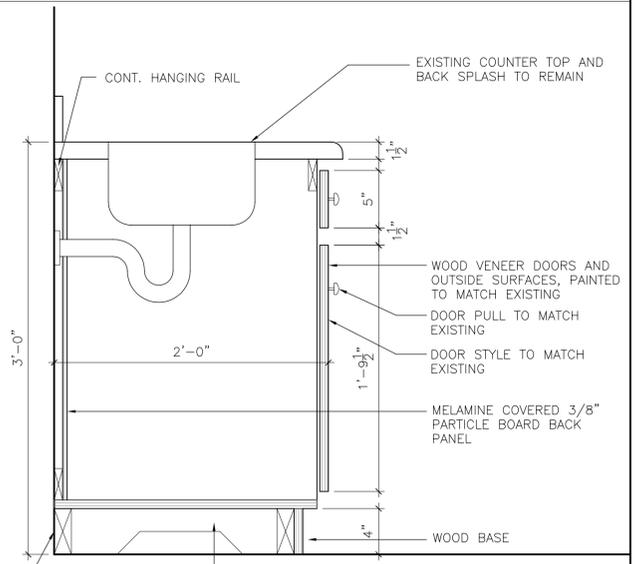


DOOR TYPES



NOTE: ALL DIMENSIONS TO BE FIELD VERIFIED

3 Base Cabinet Detail  
1 1/2"=1'-0"

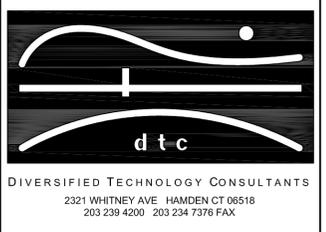


NOTE: ALL DIMENSIONS TO BE FIELD VERIFIED

2 Sink Base Cabinet Detail  
1 1/2"=1'-0"

NOTES:

REVISIONS



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OORR  
APPLICATION NO. 1253  
MASURY RESIDENCE  
31 MOREHOUSE AVE.  
MILFORD, CT 06460

Door Schedule, Door Types & Details

DTC PROJECT NUMBER: 13-449-009  
DTC DRAWING FILE:  
SCALE: AS NOTED DRAWN BY: MB  
DATE: 08/20/2014 CHECKED BY: MB

SHEET:

**PLUMBING GENERAL NOTES**

- THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL TRADES BEFORE COMMENCING WORK.
- THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS ETC. AS NECESSARY TO INSTALL PLUMBING SYSTEM, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE.
- IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH PLUMBING FIXTURE; ONLY THE BRANCH PIPING TO GROUPS OF FIXTURES IS INDICATED. THE ENTIRE PLUMBING SYSTEM SHALL BE FULLY OPERATIONAL AND READY FOR BENEFICIAL USE BEFORE THE JOB IS CONSIDERED COMPLETE.
- REFER TO LATEST ARCHITECTURAL PLANS FOR ELEVATIONS, SECTIONS, DETAILS, MOUNTING HEIGHTS, LOCATION OF PLUMBING FIXTURES. ALL HANDICAPPED DESIGNATED FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH ANSI AND ADA STANDARDS.
- DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS IN THE FIELD AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY & ALL DISCREPANCIES.
- IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY PIPE, FITTING, RISE/DROP OR DETAIL. SYSTEM & COMPONENTS SHALL BE INSTALLED ACCORDING TO THE INTENT AND MEANING OF CONTRACT DOCUMENTS AND IN ACCORDANCE WITH GOOD PRACTICE.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS WITH FACILITIES AND SERVICES TO MEET REQUIREMENTS INDICATED AND IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
- EQUIPMENT AND COMPONENTS HAVING EQUAL PERFORMANCE CHARACTERISTICS BY OTHER MANUFACTURERS MAY BE CONSIDERED, PROVIDED DEVIATIONS IN DIMENSIONS, OPERATION AND OTHER CHARACTERISTICS DO NOT CHANGE DESIGN CONCEPT OR INTENDED PERFORMANCE AS JUDGED BY THE ENGINEER. BURDEN OF PROOF OF EQUALITY OF PRODUCTS IS ON THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR THE PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR PROPERLY PROTECTING OWNER'S PROPERTY AND EQUIPMENT FROM INJURY, AND DAMAGE TO SAME SHALL BE REPLACED BY CONTRACTOR.
- CONTRACTOR IS TO CLEAN JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
- ALL WORK TO BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER, CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE CONSTRUCTION AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN WORK AREA.
- CONTRACTOR IS RESPONSIBLE TO PROPERLY SECURE AREAS OF CONSTRUCTION AT THE END OF EACH WORKING DAY.
- EQUIPMENT AND PIPING TO BE INSTALLED IN ACCORDANCE WITH SEISMIC REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL OTHER TRADES.
- ALL EQUIPMENT SUPPORTS AND PIPE HANGERS TO BE CONNECTED FROM THE BUILDING STRUCTURE.
- PROVIDE ACCESS PANELS/DOORS FOR ALL CONCEALED PLUMBING ITEMS REQUIRING ACCESS, COORDINATE WITH DIVISION 8.
- PROVIDE SHUTOFF VALVES AT ALL BRANCH PIPING TAKEOFFS.
- ALL BRANCH WATER PIPES TO HAVE STOP VALVES AT EACH PLUMBING FIXTURE.
- INSULATE EXPOSED WASTE, HOT AND COLD WATER PIPING UNDER HANDICAP LAVATORIES.
- INSULATE COLD WATER, HOT WATER AND RECIRCULATION PIPING, CONDENSATE DRAIN, STORM PIPING AND ROOF DRAIN BODIES.
- EVERY FIXTURE SHALL BE PROPERLY PIPED TO WATER, SANITARY, WASTE, AND VENT SYSTEMS. REFER TO THE PLUMBING SCHEDULES ON MEP DRAWINGS FOR INDIVIDUAL PIPE SIZES TO EACH FIXTURE.
- WHERE AN INACCESSIBLE CEILING IS INSTALLED (GYP BOARD OR EQUIVALENT), THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ACCESS PANELS FOR ALL VALVES, CLEANOUTS, ETC., REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES AND OTHER APPURTENANCES.
- ALL PIPING IS TO BE RUN CONCEALED IN CEILINGS OR WALLS. PIPING IS TO BE EXPOSED ONLY WHERE NOTED ON DRAWINGS. IF CONTRACTOR CANNOT RUN PIPING CONCEALED, NOTIFY ENGINEER IMMEDIATELY TO RESOLVE CONFLICT.
- COORDINATE EXACT LOCATION OF ALL UNDERGROUND UTILITIES (WATER, GAS, SANITARY, ETC.) EXITING OR ENTERING THE BUILDING WITH THE CONTRACTOR AND UTILITY DRAWINGS. COORDINATE ALL FOUNDATION WALL PENETRATIONS AND INVERT ELEVATIONS WITH THE GENERAL CONTRACTOR AND OR OWNER'S REPRESENTATIVE.
- DOMESTIC WATER DROPS OR RISERS INSTALLED IN EXTERIOR WALLS, SHALL BE INSTALLED ON THE WARM SIDE OF THE BUILDING INSULATION, AND THE LOCATION SHALL BE MADE INFILTRATION FREE.
- INSTALL TRAP PRIMERS FOR EACH INDIVIDUAL FLOOR DRAIN OR, AS A OPTION, CONTRACTOR MAY UTILIZED UTILITY DISTRIBUTION UNIT FOR MULTIPLE DRAIN. CONNECT TRAP PRIMER TO NEAREST ACTIVE COLD WATER MAIN; PROVIDE ISOLATION VALVES AND EXTEND TO FLOOR DRAIN.
- INSTALL FLOOR MOUNTED EQUIPMENT, SUCH AS WATER HEATERS, STORAGE TANKS, ETC. ON A 4" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE SIZE AND FINAL LOCATION OF ALL CONCRETE PADS WITH THE STRUCTURAL ENGINEER. PADS SHALL BE MINIMUM 6" LARGER THAN THE EQUIPMENT IN BOTH HORIZONTAL DIRECTIONS.
- COORDINATE ALL PLUMBING EQUIPMENT REQUIRING POWER, FOR EXACT LOCATION AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- ALL INDIRECT WASTE DRAINS SHALL BE PIPED TO FLOOR DRAINS, FUNNELS OR FIXED AIR GAP FITTINGS, THROUGH AIR GAP OR TO A SINK DRAIN TAILPIECE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELBOWS, TEES, DROPS, AND MISCELLANEOUS PIPING DUE TO ELEVATION CHANGES, OBSTRUCTIONS, COORDINATION WITH OTHER TRADES, ETC. TO INSTALL A COMPLETE, FUNCTIONING, PLUMBING SYSTEM.

**PLUMBING LEGEND**

SYMBOL	DESCRIPTION
	SOIL OR WASTE ABOVE FLOOR OR GRADE
	SOIL OR WASTE BELOW FLOOR OR GRADE
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RECIRCULATION PIPING
	GAS PIPING
	PIPING DIRECTION OF FLOW
	INSULATED AND HEAT TRACED PIPE
	PIPING RISER UP
	PIPING RISER DOWN
	BRANCH/BOTTOM CONNECTION
	TRAP
	BALL VALVE
	CHECK VALVE
	UNION
	CAP ON END OF PIPE
	GAS COCK
	GAS PRESSURE REGULATOR
	GAS SOLENOID VALVE
	POINT OF CONNECTION
	HOT WATER RECIRCULATING PUMP
	BACKFLOW PREVENTER
	BALANCING VALVE
	TEMPERING VALVE

**FIXTURE CONNECTION SCHEDULE**

MARK	DESCRIPTION	MINIMUM PIPE SIZES (INCHES)			
		CW	HW	W	V
WC	WATER CLOSET	3/8	-	3	2
LAV	LAVATORY	3/8	1/2	1-1/2	1-1/2
KS	KITCHEN SINK	1/2	1/2	1-1/2	1-1/2
BT	BATH TUB WITH SHOWER	1/2	1/2	1-1/2	1-1/2
HB	HOSE BIBB	1/2	-	-	-
WM	WASHING MACHINE	1/2	1/2	2	1-1/2
HWH	HOT WATER HEATER	3/4	3/4	-	2"
DW	DISHWASHER	3/8	3/8	1/2"	-

**PIPING SYMBOLS**

- HWS HOT WATER SUPPLY
- HWR HOT WATER RETURN
- D DRAIN

**ABBREVIATIONS**

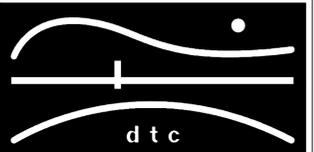
- BB BASEBOARD
- CO CLEANOUT
- CV CONTROL VALVE
- CTE CONNECT TO EXISTING
- D DRAIN
- DN DOWN
- E EXISTING TO REMAIN
- ER EXISTING TO BE REMOVED
- ERR EXISTING TO BE RELOCATED
- GPM GALLONS PER MINUTE
- HZ HERTZ
- IN INCH
- MAX MAXIMUM
- MIN MINIMUM
- N NEW
- PH PHASE
- PSI POUNDS PER SQUARE INCH
- TEMP TEMPERATURE
- TYP TYPICAL
- W WASTE

**HVAC GENERAL NOTES**

- NOTES BELOW ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.
- CONTRACTOR SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE NATURE AND SCOPE OF WORK REQUIRED BY CONTRACT DOCUMENTS PRIOR TO BIDDING PROJECT.
- PROVIDE ALL REQUIRED MATERIALS, LABOR, EQUIPMENT, AND SERVICES NECESSARY FOR THE INSTALLATION OF THE WORK AS SHOWN ON THESE DRAWINGS OR SPECIFIED BY THE BASE BUILDING DRAWING AND SPECIFICATIONS.
- REFER TO AND CAREFULLY CHECK ARCHITECTURAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS AND DETAILS, NOTES, LOCATIONS WHERE WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES ARE FURRED, LOCATIONS OF SHAFTS, SOFFITS, AND CONFLICTS WITH WORK OF OTHER TRADES, AND ARRANGE WORK ACCORDINGLY. FURNISH ALL OFFSETS, DAMPERS, CONNECTORS, ETC., REQUIRED TO MEET SUCH CONDITIONS.
- DUE TO SCALE OF DRAWINGS, ALL REQUIRED OFFSETS, DAMPERS, ETC., MAY NOT BE INDICATED.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE AND LOCAL GOVERNING CODES.
- THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL, AND CONNECT COMPLETELY".
- TURN OVER TO THE OWNER ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT AND MATERIALS PROVIDED.
- WHERE THE CONTRACTOR PROPOSES TO USE AN ITEM OF EQUIPMENT OTHER THAN THAT SPECIFIED OR DETAILED ON THE DRAWINGS WHICH REQUIRES ANY REDESIGN OF THE STRUCTURE, PARTITIONS, FOUNDATIONS, PIPING, WIRING OR ANY OTHER PART OF THE MECHANICAL, ELECTRICAL OR ARCHITECTURAL LAYOUT, ALL SUCH REDESIGN AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREFORE, SHALL BE PREPARED AT THE CONTRACTOR'S EXPENSE AND ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. OWNER RESERVES THE RIGHT TO HAVE THE ARCHITECT OR ENGINEER OF HIS CHOICE PREPARE ANY REDESIGN WORK.
- CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS OF MECHANICAL EQUIPMENT WITH DIVISION 26.
- ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
- BEFORE CUTTING MATERIAL AND EQUIPMENT, AND PROCESSING THE WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY AND CHECK NEEDED SPACE FOR PLACEMENT AND CLEARANCES.
- BEFORE CUTTING AND DRILLING INTO BUILDING ELEMENTS, INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
- CONTRACTOR RESPONSIBLE FOR REPAIR AND PAYMENT FOR ALL UTILITIES DAMAGE DURING CONSTRUCTION.
- FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF PROVIDED EQUIPMENT.
- ALL SHOP DRAWINGS OF INDIVIDUAL COMPONENTS ARE TO BE SUBMITTED AS A COMPLETE PACKAGE.
- HVAC DRAWINGS DO NOT NECESSARY SHOW ALL CONDITIONS OF BUILDING. CONTRACTOR TO USE ALL DRAWINGS AND SPECIFICATIONS OF CONTRACT DOCUMENTS AND INSPECTION OF FIELD CONDITIONS FOR DIVISION 23.
- HVAC PLANS, DETAILS AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE SYSTEM. THESE ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, HANGERS, ACCESS DOORS, ETC. WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE SYSTEM.
- ALL WORK IN INTERIOR FINISHED SPACES EXCEPT INDICATED IS TO BE CONCEALED ABOVE CEILING. PROVIDE ALL NECESSARY CUTTING, PATCHING, REPAINTING AND/OR REPLACEMENT OF FINISHES AS REQUIRED TO PERFORM COORDINATE WITH OTHER DIVISIONS.
- IF MANUFACTURER OF EQUIPMENT REQUIRES LARGER CAPACITY CIRCUITRY AND/OR EQUIPMENT THE CONTRACTOR SHALL PROVIDE SUCH CAPACITY AND/OR EQUIPMENT UNDER THIS CONTRACT AT NO COST TO THE OWNER.
- DO NOT SCALE DRAWINGS. CHECK EXISTING SPACE CONDITIONS AT THE JOB SITE.
- DO NOT PENETRATE STAIR WALLS WITH ANY UTILITIES OR CONDUIT EXCEPT FOR UTILITIES SPECIFICALLY SERVING THAT STAIR.
- CONTROL CONTRACTOR PROVIDE ALL CONTROL DEVICES, EQUIPMENT, ACCESSORIES, OTHER APPARATUS, CONTROL VALVES AND DAMPERS, ACTUATORS, SENSORS, ETC. AND ALL CONTROL WIRING.
- PROVIDE FLEXIBLE CONNECTIONS BETWEEN MECHANICAL EQUIPMENT AND DUCTWORK AND PIPING.
- ALL PENETRATIONS THRU WALLS, ROOF, AND FLOORS TO BE COORDINATED BEFORE SITE WORK EXECUTION WITH STRUCTURAL ENGINEERS.
- THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS TO BE COORDINATED WITH INTERIOR WALL LAYOUT, REFER TO ARCHITECTURAL PLANS.
- NO THREADED FITTINGS 2-1/2" AND LARGER ALLOWED FOR HYDRONIC HVAC PIPING.
- CONTRACTOR SHALL SELECT AND PROVIDE EXPANSION JOINTS OR EXPANSION LOCALS IN ACTUAL INSTALLATION/CONDITIONS.
- ELECTRICAL CHARACTERISTICS FOR MECHANICAL EQUIPMENT: EQUIPMENT OF HIGHER ELECTRICAL CHARACTERISTICS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING ELECTRICAL SERVICES, CIRCUIT BREAKERS, AND CONDUIT SIZES ARE APPROPRIATELY MODIFIED. IF MINIMUM ENERGY RATINGS OR EFFICIENCIES ARE SPECIFIED, EQUIPMENT SHALL COMPLY WITH REQUIREMENTS.
- WINGS: DETAIL MAJOR ELEMENTS, COMPONENTS, AND SYSTEM PF MECHANICAL EQUIPMENT AND MATERIALS IN RELATIONSHIPS WITH OTHER SYSTEMS, INSTALLATIONS, AND BUILDING COMPONENTS. SHOW SPACE REQUIREMENTS FOR INSTALLATION AND ACCESS. INDICATE IF SEQUENCE AND COORDINATION ARE IMPORTANT TO EFFICIENT FLOW OF THE WORK. INCLUDE THE FOLLOWING.
  - PLANNED PIPING LAYOUT, INCLUDING VALVE AND SPECIALTY LOCATIONS AND VALVE-STEM MOVEMENT.
  - CLEARANCES FOR INSTALLING AND MAINTAINING INSULATION.
  - CLEARANCES FOR SERVING AND MAINTAINING EQUIPMENT, ACCESSORIES, AND SPECIALTIES, INCLUDING SPACE FOR DISASSEMBLY REQUIRED BY PERIODIC MAINTENANCE.
  - EQUIPMENT AND ACCESSORY SERVICE CONNECTIONS AND SUPPORT DETAILS.
  - EXTERIOR WALL AND FOUNDATION PENETRATIONS.
  - SIZES AND LOCATION OF REQUIRED CONCRETE PADS AND BASES.
  - FLOOR PLANS, ELEVATIONS, AND DETAILS TO INDICATE PENETRATIONS, FLOORS, WALLS, AND CEILINGS AND THEIR RELATIONSHIP TO OTHER PENETRATIONS AND INSTALLATIONS.
  - SCALE: MINIMUM 1/4"=1'-0" FOR FLOOR PLAN, 3/8"=1'-0" FOR MECHANICAL ROOMS.
- ALL PENETRATIONS FOR THE INSTALLATION OF THE MECHANICAL SYSTEMS SHALL BE CAULKED AND SEALED FOR SMOKE AND FIRE AS REQUIRED.

NOTES:

REVISIONS



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**OOR**  
**APPLICATION NO. 1253**  
**MASURY RESIDENCE**  
**31 MOREHOUSE AVE.**  
**MILFORD, CT 06460**

**MECHANICAL & PLUMBING GENERAL NOTES**

DTC PROJECT NUMBER: 13-449-009

DTC DRAWING FILE:

SCALE: 1/4"=1.0

DRAWN BY: RWF

DATE: 8/20/2014

CHECKED BY: RCN

SHEET:

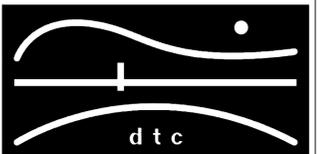
**M-001**

PORTIONS OF HTE AREAS TO BE RETROFITTED WERE NOT ACCESSIBLE AND/OR NOT DEMOLISHED UNTIL AFTER THE DESIGN PERIOD. WITHOUT THE SPACE BEING COMPLETELY ACCESSIBLE AND/OR DEMOLISHED DURING THE DESIGN PERIOD, WE WERE NOT ABLE TO SURVEY THE EXTENT OF THE EXISTING CONDITIONS AND ALL OF THE SERVICES AND CONDITIONS THAT MAY EXIST FOR CONFLICTS WITH THE INTENDED PROGRAM. THERE MAY BE COORDINATION ITEMS THAT WILL NEED TO BE ADDRESSED AFTER DEMOLITION DURING THE CONSTRUCTION PERIOD. IT SHOULD BE NOTED THAT A FINAL REVIEW AND COORDINATION WILL BE REQUIRED AFTER DEMOLITION TO VERIFY ALL FIELD CONDITION S WITH THE DESIGN DOCUMENTS. THIS MAY RESULT IN CONSTRUCTION COST CHANGES.

NOTE: SOME SYMBOLS AND ABBREVIATIONS MAY OR MAY NOT APPEAR ON THE DRAWINGS.

NOTES:

REVISIONS



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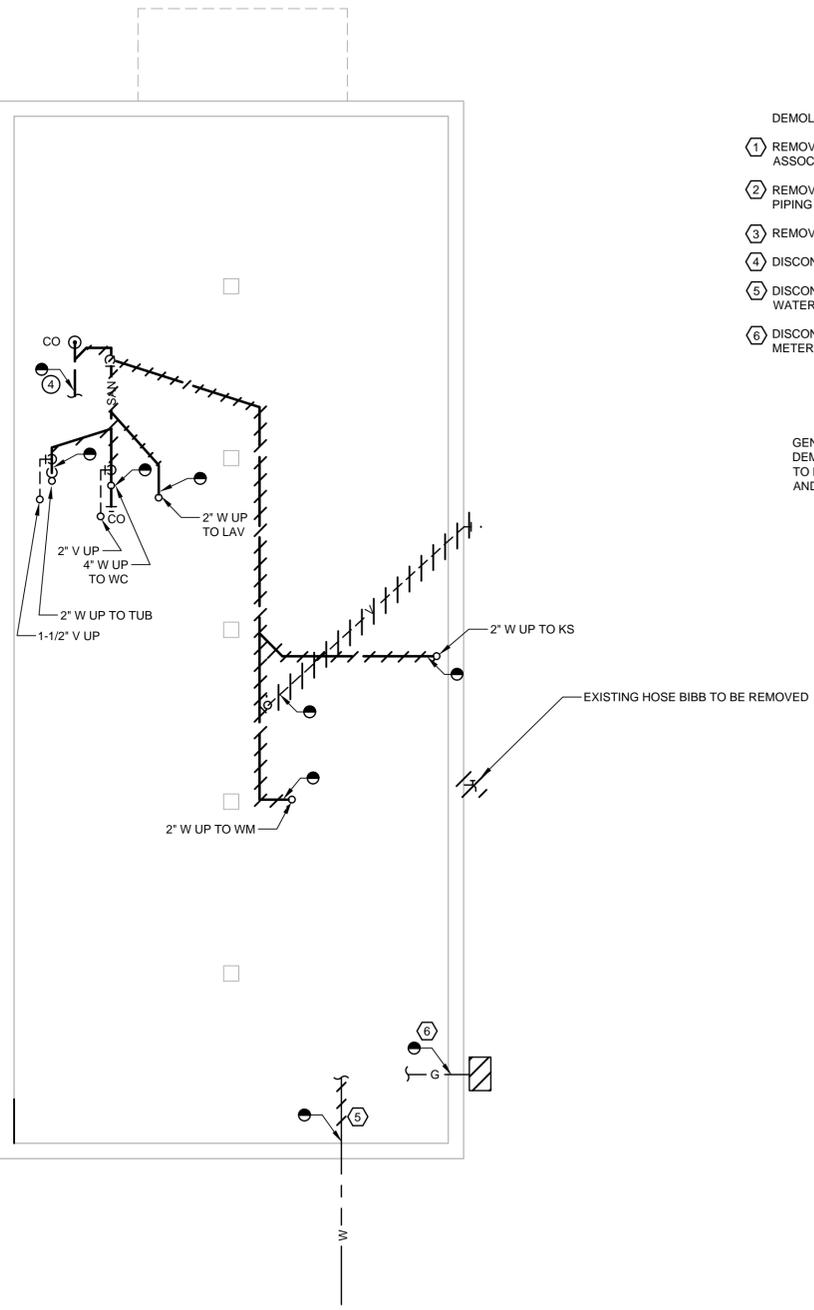
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**MECHANICAL &  
PLUMBING  
DEMOLITION PLANS**

DTC PROJECT NUMBER: 13-449-009  
DTC DRAWING FILE:  
SCALE: 1/4"=1.0' DRAWN BY: RWF  
DATE: 8/20/2014 CHECKED BY: RCN

SHEET:  
**MPD-100**

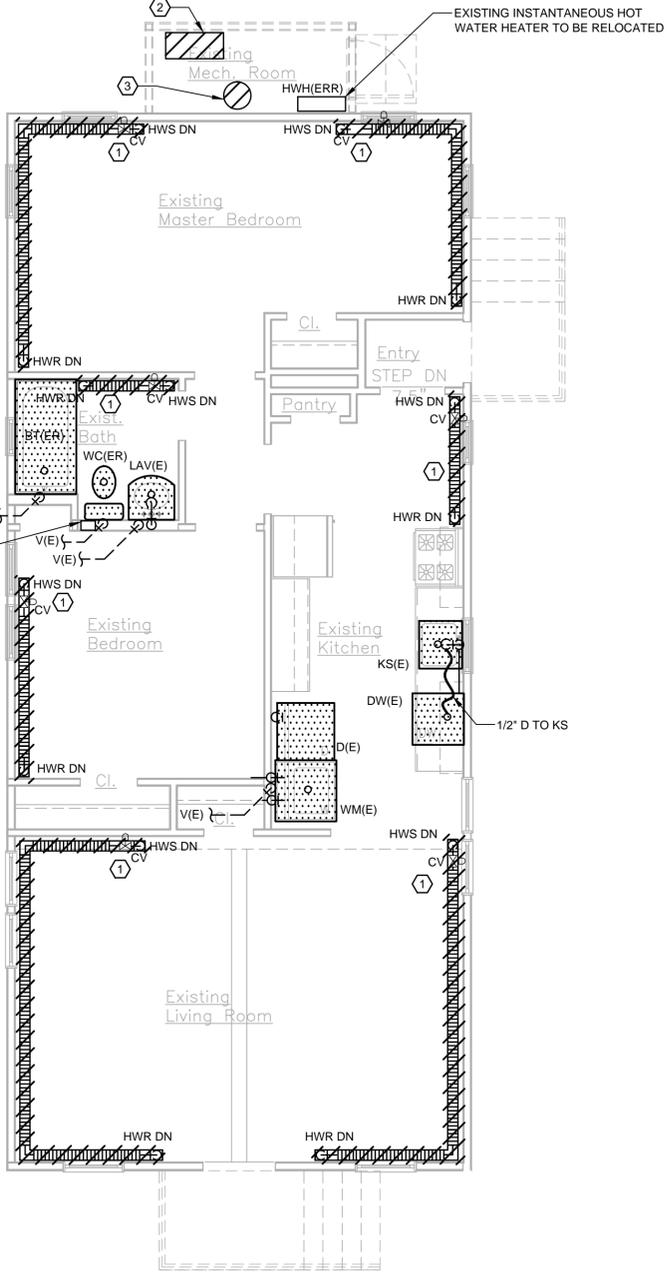


GENERAL NOTE:  
UNLESS OTHERWISE INDICATED, ALL  
SANITARY, WATER, GAS AND VENT  
PIPING ARE TO REMAIN

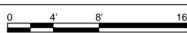
- DEMOLITION NOTES:
- ① REMOVE EXISTING BASEBOARD HEATING AND ASSOCIATED VALVES & PIPING.
  - ② REMOVE EXISTING BOILER AND ASSOCIATED PIPING AND VENTING.
  - ③ REMOVE EXISTING EXPANSION TANK
  - ④ DISCONNECT SANITARY PIPE
  - ⑤ DISCONNECT DOMESTIC WATER LINE FROM WATER MAIN
  - ⑥ DISCONNECT GAS PIPE FROM EXISTING GAS METER.

GENERAL NOTE:  
DEMOLISH HWS&R PIPING CONNECTED  
TO DEMOLISHED BASEBOARD HEATERS  
AND BOILER

EXISTING BATHROOM  
EXHAUST FAN TO REMAIN



**2 GROUND FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



**2 FIRST FLOOR PLAN**  
SCALE: 1/4" = 1'-0"





### FINNED TUBE RADIATION SCHEDULE

UNIT	MANUFACTURER	MODEL	FIN SIZE (IN)	FINS / LF	ROWS	TUBE SIZE	BTUH / LF	COVER DEPTH / HEIGHT (IN)	REMARKS
BB	SLANT FIN	MULTIPAK 80 H-6X	3x3.25	48	1	1.25"	520	3.5/8.875	

### EXPANSION TANKS SCHEDULE

SYMBOL	LOCATION	MANUFACTURER	MODEL	TYPE	VOLUME (GALS.)	ACCEPTANCE (GALS.)	REMARKS
ET-1	MECHANICAL ROOM	WATTS REGULATOR	ETX-30	DIAPHRAGM	15	6	

### HOT WATER BOILERS SCHEDULE

UNIT	MANUFACTURER	MODEL	BOILER DATA					VENT	FUEL	ELECTRICAL		DIMENSIONS (IN)	REMARKS	
			TYPE	INPUT (MBH)	OUTPUT (MBH)	GAS VALVE CONNECTION	GAS INPUT (CFH)			GAS PRESSURE MIN/MAX (IN. WC)	VOLT/PH/HZ			AMPS
B-1	US BOILER CO.	BURNHAM SERIES ESC 4	NON-CONDENSING	60.8	52	1/2"	70	4.5/14	3"	GAS	120/1/60	15	33x12.75x41	INCLUDE TACO 007 CIRCULATOR

### PLUMBING VALVES SCHEDULE

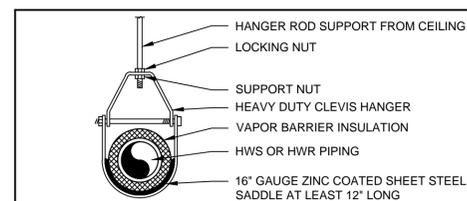
TYPE	VALVE SPECIFICATION				MATERIAL				PRESSURE				LOCATIONS																								
	FIG. NO. MILWAUKEE	FIG. NO. HOMESTEAD	SIZE	O.S.&Y.	N.R.S.	FLANGED	SCREWED	SOLDER	BRASS	BRONZE	I.B.M.	ALL IRON	CAST STEEL	HOSE END	200# WWP	250# WWP	300# WWP	400# WWP	500# WWP	600# WWP	960# WWP	GAS	C.W. 4" & UP	C.W. 3" & DN	C.W. 2" & DN	HW HMC 4" & UP	HW HMC 3" & DN	HW HMC 2" & DN	REQ. AT EQUIP.	SUMP DISCH.	EJECT. DISCH.	D.W. D.W.C.					
BALL VALVES	BA-100	-	1/4"-2"																																		
	BA-150	-	1/4"-2"																																		
GLOBE & ANGLE VALVES	502	-	1/8"-3"																																		
	1590T	-	3/8"-3"																																		
	595T	-	1/8"-3"																																		
CHECK VALVES	F-2981	-	2"-10"																																		
	F-2974	-	2"-12"																																		
	2974	-	2"-12"																																		
PLUG VALVES	510T	-	1/4"-2"																																		
	1509	-	3/8"-3"																																		
	-	611	1/2"-6"																																		

### PLUMBING FIXTURE/EQUIPMENT SCHEDULE

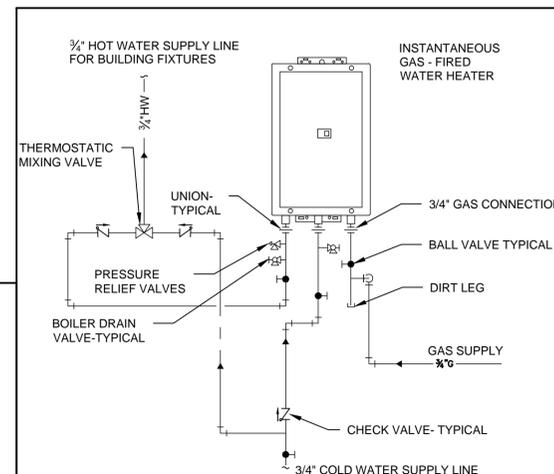
SYMBOL	MARK	MFR	MODEL	DESCRIPTION
	HB	WOODFORD	28 METAL HANDLE	CAST BRASS, CHROME FINISH, LOOSE KEY, ANTI-SIPHON ASSE RATED VACUUM BREAKER, TRIMLINE WALL HYDRANT w/1/2" INLET.
	TMV	LAWLER	804	THERMOSTATIC MIXING VALVE - WATER HEATERS, 1-1/2" INLETS, 2" OUTLET.
	-	RAYCHEM	8XL1	120V, 1 PHASE, 60 HZ, 8W/FT WITH A MAXIMUM LENGTH OF 115 FT, MAXIMUM OPERATING TEMP OF 150F.
	BT	KOHLER ACCORD SWANSTONE SYMMONS	71141110-0 LEFT HAND SS-72-3 WALL KIT 1-215-X	ACID RESISTING, HEAVY GAUGE, COMPOSITE ONE-PIECE RECESS BATH W/ INTEGRAL APRON, W/END DRAIN OUTLET, W/SLIP-RESISTANT SURFACE, W/STRAIGHT TILING BEAD, W/4-FULLY-BONDED SUPPORT PAD. NOMINAL DIMENSIONS: 60" X 30" X 15". 2" CAST BRASS DRAIN WITH CHROME PLATED STRAINER; 1.5 GPM TEMP/ROL SHOWER WITH PRESSURE-BALANCING MIXING VALVE, INTEGRAL SERVICE STOPS, SHOWER HEAD ANCHOR PLATE AND LEVER HANDLE. SOLID SURFACE, 3 PIECE SHOWER WALL KIT & CURTAIN ROD. COLOR AS SELECTED BY OWNER.
	WC	AMERICAN STANDARD	CADET 3 FLOWISE 2835.128 1.28 GPF	VITREOUS CHINA, FLOOR SET, TANK TYPE WATER CLOSET. ELONGATED BOWL, 1.28 GALLON FLUSH, W/ANGLE STOP, EASY SEAT AND LID #5325.010 ELONGATED CHAMPION LIFT OFF FEATURE. SLOW CLOSE, SOLID PLASTIC SEAT AND COVER.

### MATERIAL SCHEDULE

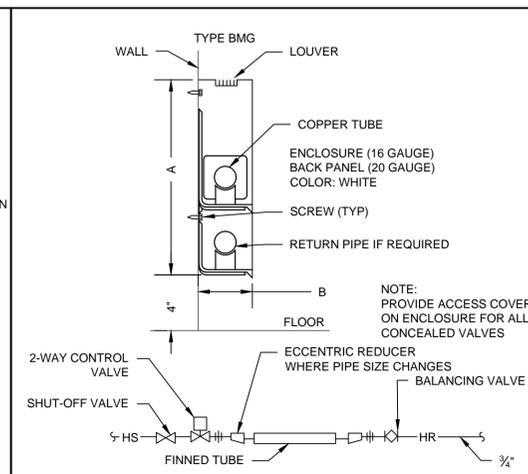
SYSTEMS	PIPE				FITTING		JOINTS						
	REQUIRED	C.I.	STL. SCHED. 40	BLACK IRON	GALVANIZED	C.T "L"	PEX	C.I. NO-HUB FITTINGS	SOLDER FITTINGS	THREADED	SOLDERED	WELDED	NO-HUB (HUSKY # 400)
SANITARY													
VENTS													
C.W.													
H.W.													
GAS													



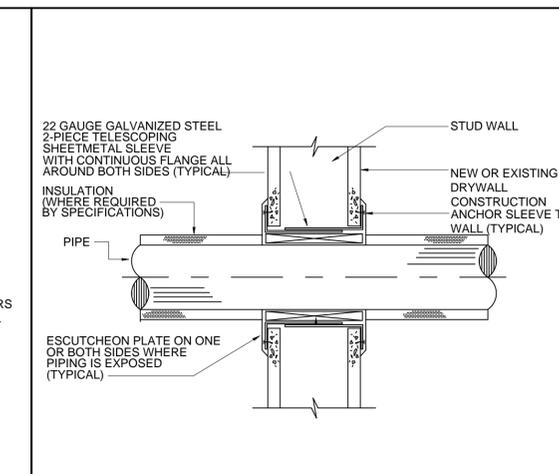
1 INSULATED PIPE HANGER DETAIL  
NOT TO SCALE



2 TANKLESS WATER HEATER PIPING DETAIL  
NOT TO SCALE



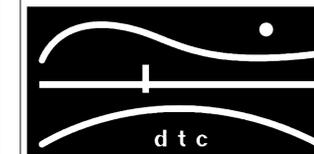
3 FINNED TUBE RADIATION DETAIL  
NOT TO SCALE



4 WALL/FLOOR PENETRATION DETAIL  
NOT TO SCALE

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OORR  
APPLICATION NO. 1253  
MASURY RESIDENCE  
31 MOREHOUSE AVE.  
MILFORD, CT 06460

MECHANICAL &  
PLUMBING SCHEDULES  
& DETAILS

DTC PROJECT NUMBER: 13-449-009

DTC DRAWING FILE:

SCALE: 1/4=1.0

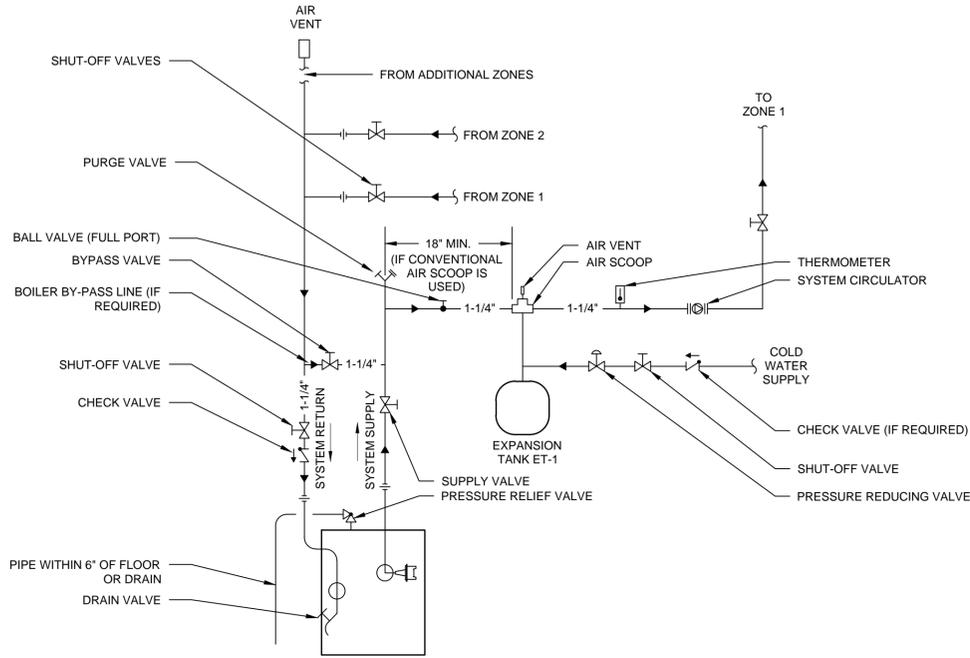
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DATE: 8/20/2014

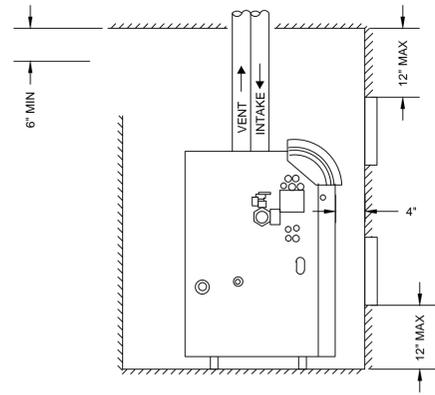
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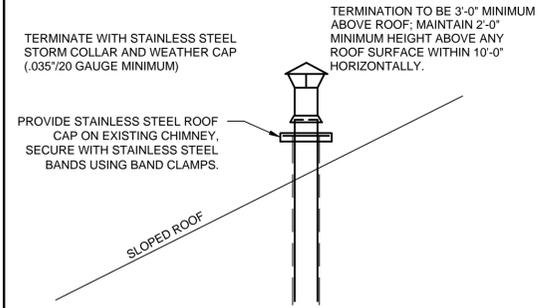
MP-300



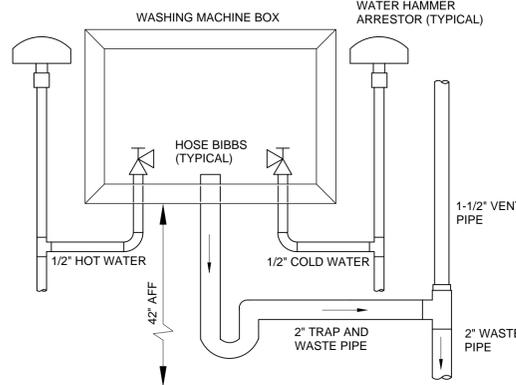
1 BOILER PIPING DIAGRAM  
MP301 NOT TO SCALE



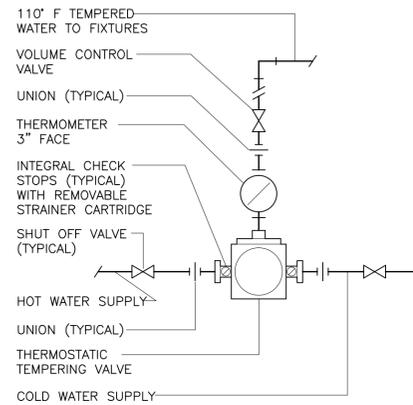
2 BOILER VENTING DETAIL  
MP301 NOT TO SCALE



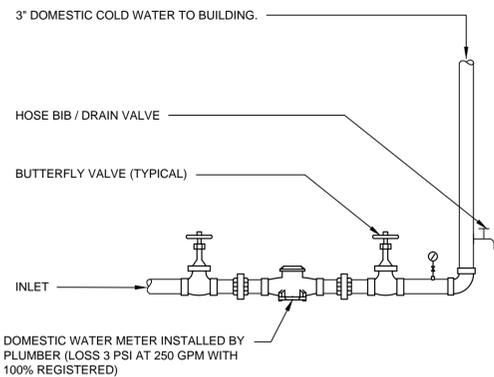
3 VENT TERMINATION DETAIL  
MP301 NOT TO SCALE



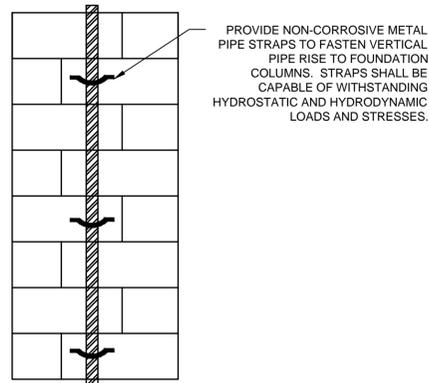
4 WASHING MACHINE BOX DETAIL  
MP301 NOT TO SCALE



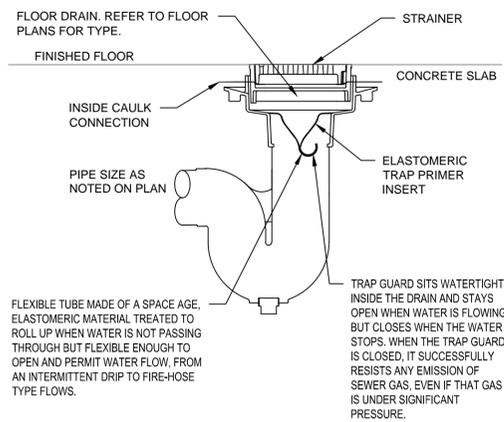
5 TEMPERING VALVE ASSEMBLY DETAIL  
MP301 NOT TO SCALE



6 VALVE AND WATER SERVICE ENTRANCE DETAIL  
MP301 NOT TO SCALE



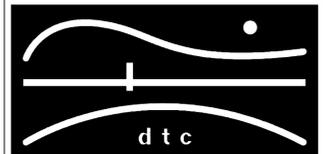
7 FLOOD RESISTANT STRAPPING DETAIL  
MP301 NOT TO SCALE



8 TRAP SAVER DETAIL  
MP301 NOT TO SCALE

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DRAWN BY: RWF

DATE: 8/20/2014

CHECKED BY: RCN

SHEET:

MP-301

### ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	RECESSED PANELBOARD
	BRANCH CIRCUIT POWER WIRING
	BRANCH CIRCUIT HOME RUN
	SWITCHED WIRING
	RECEPTACLE OUTLET FOR DRYER
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET WITH GROUND-FAULT CIRCUIT-INTERRUPTER
	DUPLEX RECEPTACLE OUTLET WITH GROUND-FAULT CIRCUIT-INTERRUPTER MOUNTED ABOVE COUNTER
	DUPLEX RECEPTACLE OUTLET WITH GROUND-FAULT CIRCUIT-INTERRUPTER AND IN WEATHERPROOF ENCLOSURE
	DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER FOR MICROWAVE OVEN
	DUPLEX RECEPTACLE OUTLET FOR DISHWASHER
	DUPLEX RECEPTACLE OUTLET FOR REFRIGERATOR
	DUPLEX RECEPTACLE OUTLET FOR WASHING MACHINE
	CEILING MOUNTED DUPLEX RECEPTACLE WITH GROUND-FAULT CIRCUIT-INTERRUPTER
	WALL MOUNTED JUNCTION BOX
	MOTOR, SEE SCHEDULE ON DWG E-001
	SURFACE MOUNTED LIGHTING FIXTURE
	WALL MOUNTED LIGHTING FIXTURE
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	UTILITY METER
	MULTI-STATION SMOKE DETECTOR
	MULTI-STATION HEAT DETECTOR
	MULTI-STATION COMBINATION SMOKE/CARBON MONOXIDE DETECTOR
	WALL MOUNTED TELEPHONE OUTLET
	CATV OUTLET

### ELECTRICAL ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
A	AMPERES
AC	ALTERNATING CURRENT (60 HZ)
A/C	AIR CONDITIONING
AHJ	AUTHORITY HAVING JURISDICTION
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CATV	CABLE TV
CU	COPPER
DR	DRYER
DWG	DRAWING
EX	EXISTING TO REMAIN
FLA	FULL LOAD AMPS
GFI	GROUND-FAULT CIRCUIT-INTERRUPTER
HP	HORSEPOWER
J	JUNCTION
KV	KILOVOLT AMPERE
KVA	KILOVOLT AMPERE
M	METER
MC	METAL CLAD
MCA	MINIMUM CIRCUIT AMPACITY
MW	MICROWAVE OVEN
NEC	NATIONAL ELECTRIC CODE
NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOC.
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NMNM-B	NONMETALLIC SHEATHED
N.T.S.	NOT TO SCALE
OC	OVERCURRENT PROTECTION
P	POLE
PVC	POLYVINYL CHLORIDE
REF	REFRIGERATOR
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPERES
W	WATTS
WM	WASHING MACHINE
WP	WEATHERPROOF
#	NUMBER
'	FEET
"	INCHES

### DRAWING LIST

SHEET	NAME
E-001	ELECTRICAL NOTES, LEGENDS, ABBREVIATIONS, DETAILS & SCHEDULES
E-100	ELECTRICAL BASEMENT & FIRST FLOOR PLANS

- ### ELECTRICAL GENERAL NOTES
- UNLESS OTHERWISE INDICATED, FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT.
  - ELECTRICAL PLANS AND DETAILS, AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE ELECTRICAL SYSTEM. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL CONDUIT BODIES, CONNECTORS, BENDS, FITTINGS, HANGERS, AND ADDITIONAL PULL AND JUNCTION BOXES WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE ELECTRICAL SYSTEM.
  - FURNISH AND INSTALL A TEMPORARY ELECTRICAL SERVICE FOR ELECTRICAL POWER DURING CONSTRUCTION.
  - ALL EQUIPMENT AND MATERIAL SHALL BE LABELED AND LISTED, AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
  - THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE GOVERNING AUTHORITIES.
  - ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH STATE GOVERNING AUTHORITIES.
  - THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED IN THE 2011 EDITION OF THE NATIONAL ELECTRIC CODE (NEC).
  - THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS, AND RELATED ATTACHMENTS)".
  - THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE, AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".
  - ELECTRICAL PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCE'S AND CONDITIONS, VISIBLE AND/OR HIDDEN, THAT MAY EXIST, THUS REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE SPACE BEFORE PERFORMING THE WORK.
  - COORDINATE ELECTRICAL WORK WITH OWNER.
  - COORDINATE ELECTRICAL WORK WITH OTHER DIVISIONS OF THIS PROJECT.
  - BEFORE SELECTING MATERIAL AND EQUIPMENT, AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY, AND CHECK NEEDED SPACE FOR PLACEMENT, CLEARANCES AND INTERCONNECTIONS.
  - BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
  - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) ANS/NFPA 70 2011 EDITION.
  - TYPICAL MOUNTING HEIGHTS OF DEVICES SHALL COMPLY NECA 1-2010.
  - PENETRATIONS THROUGH GROUND SLAB SHALL BE SEALED WITH POLYURETHANE SEALANT TYPICAL FOR ALL PENETRATIONS.
  - FURNISH AND INSTALL MEANS OF DISCONNECTION FOR ALL MOTORIZED EQUIPMENT AND APPLIANCES IN ACCORDANCE WITH NEC.

### MOTOR CIRCUIT SCHEDULE

EQUIPMENT	SOURCE PANEL	OCP DEVICE	BRANCH CIRCUIT	DISC SW	STARTER	LOAD					REMARKS
						HP/KW	FLA	MCA	PH	VOLT	
B-1	1,RP	15A-1P	2#14, #14G	STOL	DIV. 23				1	120V	1,2,3,4
HWH-1	2,RP	15A-1P	2#14, #14G	STOL	DIV. 23			2A	1	120V	2,3,4,5

- NOTES:
- PROVIDE STOL -THERMAL OVERLOAD SWITCH. STOL SHALL BE NEMA 1 RATED.
  - OVERCURRENT PROTECTIVE DEVICE SHALL BE MOLDED CASE CIRCUIT BREAKER U.O.N.
  - REFER TO ELECTRICAL AND MECHANICAL PLANS FOR EQUIPMENT LOCATIONS.
  - UNIT SHALL BE WIRED WITH NM CABLE (ROMEX)

### FEEDER SCHEDULE

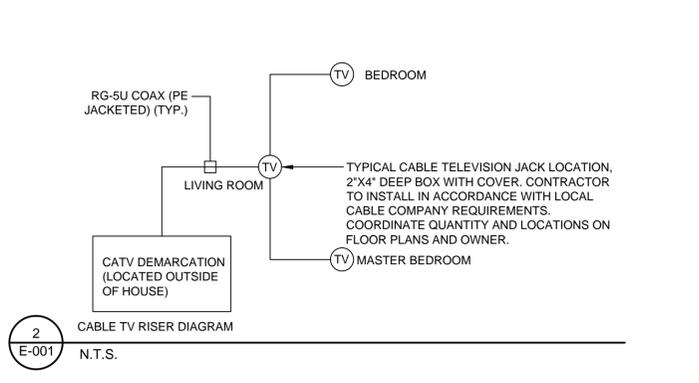
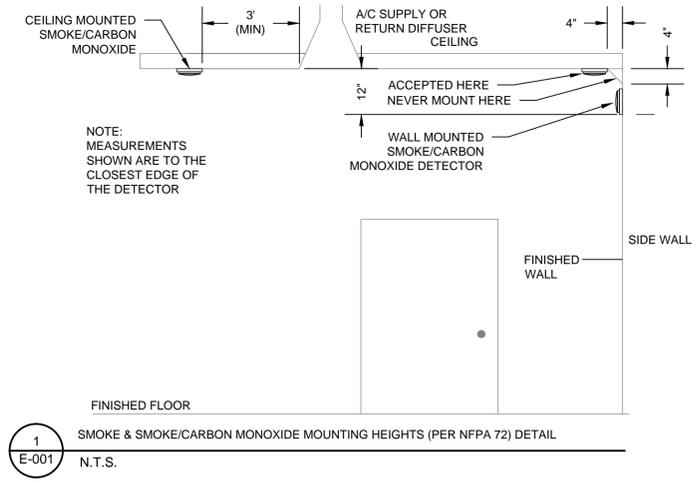
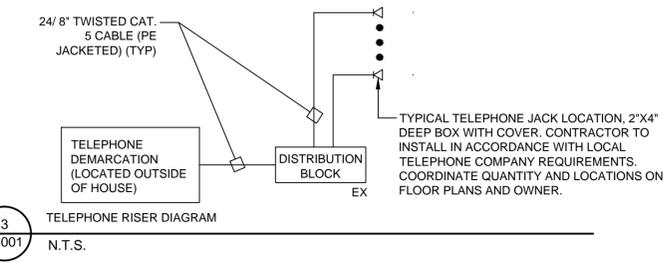
INDOOR BRANCH CIRCUITS	CIRCUIT OR OVERCURRENT RATING 2 POLE	OUTDOOR BRANCH CIRCUITS	CIRCUIT OR OVERCURRENT RATING 2 POLE	SIZE CONDUIT
2#14&1#14G.	15A	2#12&1#12G.	15A	3/4"
2#12&1#12G.	20A	2#12&1#12G.	20A	3/4"
2#10&1#10G.	30A	2#10&1#10G.	30A	3/4"
2#8&1#10G.	40A	2#8&1#10G.	40A	3/4"
SERVICE		3#1&1#6G.	100A	1-1/2"

- NOTES:
- ALL BRANCH CIRCUIT USED INDOORS SHALL BE WIRED WITH NONMETALLIC SHEATHED CABLE (ROMEX), U.O.N.
  - ALL EQUIPMENT AND DEVICES LOCATED OUTDOORS SHALL BE CIRCUITED WITH CONDUIT AND WIRING.

### LIGHT FIXTURE SCHEDULE

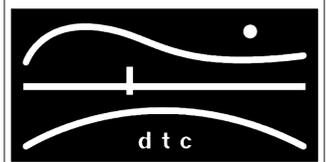
TYPE	BASE OF DESIGN	DESCRIPTION	VOLTAGE	LAMPS	REMARKS
A	COLUMBIA LIGHTING LXEM-4-35ML-RFA-EU	SURFACE MOUNTED LIGHTING FIXTURE, WET LOCATION LISTED, ENERGY STAR RATED AND RESISTANT TO SALT SPARY	120V	53W LED DRIVER	1,2,3,4
B	EFFICIENT LIGHTING EL-158	EXTERIOR WALL MOUNTED LIGHTING FIXTURE WITH FULL CUT OFF, WET LOCATION LISTED, ENERGY STAR RATED, CONTROLLED BY INTEGRAL OCCUPANCY SENSOR AND RESISTANT TO SALT SPRAY	120V	23W	1,2,3,4

- NOTES:
- ALL NECESSARY MOUNTING HARDWARE, HANGERS, BRACKETS, STEMS, CHAINS, ETC. SHALL BE PROVIDED.
  - REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS, ARRANGEMENTS, EXACT LOCATIONS, CEILING HEIGHTS, ETC. ALL COLORS AND FINISHES SHALL BE VERIFIED BY THE ARCHITECT.
  - FIXTURES SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE CONNECTICUT STATE BUILDING CODE.
  - FIXTURES SHOWN ARE FOR BASIS OF DESIGN ONLY. CONTRACTOR SHALL MEET THE CRITERIA OF THE FIXTURES SHOWN IN THE DESCRIPTIONS ABOVE.



NOTES:

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**ELECTRICAL NOTES,  
LEGENDS AND  
ABBREVIATIONS**

DTC PROJECT NUMBER: 13-449-009  
DTC DRAWING FILE:  
SCALE: NONE DRAWN BY: WM  
DATE: 8/20/2014 CHECKED BY: JP

SHEET:  
**E-001**

## GENERAL NOTES

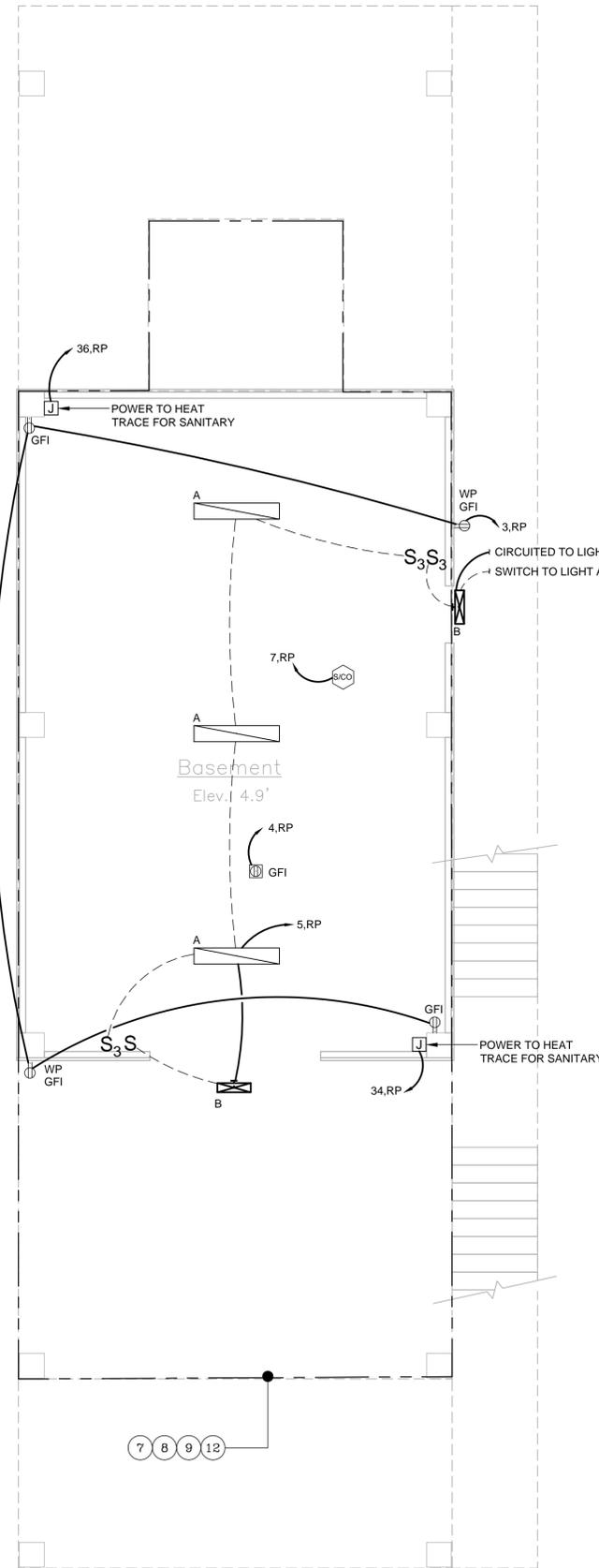
- ALL CIRCUITS ON THIS DRAWING SHALL BE SIZED 2#12, #12G AND SHALL BE CONNECTED TO NEW 20A-1P CIRCUIT BREAKER IN SOURCE PANEL, U.O.N.
- ALL 120VAC BRANCH CIRCUITS EXCEEDING 100' IN LENGTH SHALL BE INCREASED TO 2#10, #10G UNLESS OTHERWISE NOTED.
- REFER TO DWG E-001 FOR SYMBOL LEGEND, ABBREVIATIONS, DETAILS, MOTOR CIRCUIT SCHEDULE AND LIGHTING SCHEDULE.
- IF 2011 NEC REQUIRED GROUNDING IS NOT PRESENT ON EXISTING OUTLETS TO BE REPLACED, THE REPLACEMENT OUTLETS SHALL BE GFI TYPE, OR PROPER GROUNDING SHALL BE PROVIDED VIA ANOTHER METHOD ACCEPTABLE TO AHJ.
- ALL BRANCH CIRCUIT USED INDOORS SHALL BE WIRED WITH NM CABLE (ROMEX), U.O.N. REFER TO FEEDER SCHEDULE ON DRAWING E-001 FOR SIZING.
- ALL EQUIPMENT AND DEVICES LOCATED OUTDOORS SHALL BE CIRCUITED WITH CONDUIT AND WIRING, U.O.N. REFER TO FEEDER SCHEDULE ON DWG E-001 FOR SIZING.
- CONTRACTOR SHALL CUT, PATCH AND PAINT ALL EXISTING AREAS THAT ARE AFFECTED BY NEW CONSTRUCTION.
- ALL SMOKE, HEAT AND COMBINATION SMOKE/CARBON MONOXIDE DETECTORS SHALL BE WIRED TOGETHER WITH 12/3 NM-B CABLE.

## ELECTRICAL KEYNOTES

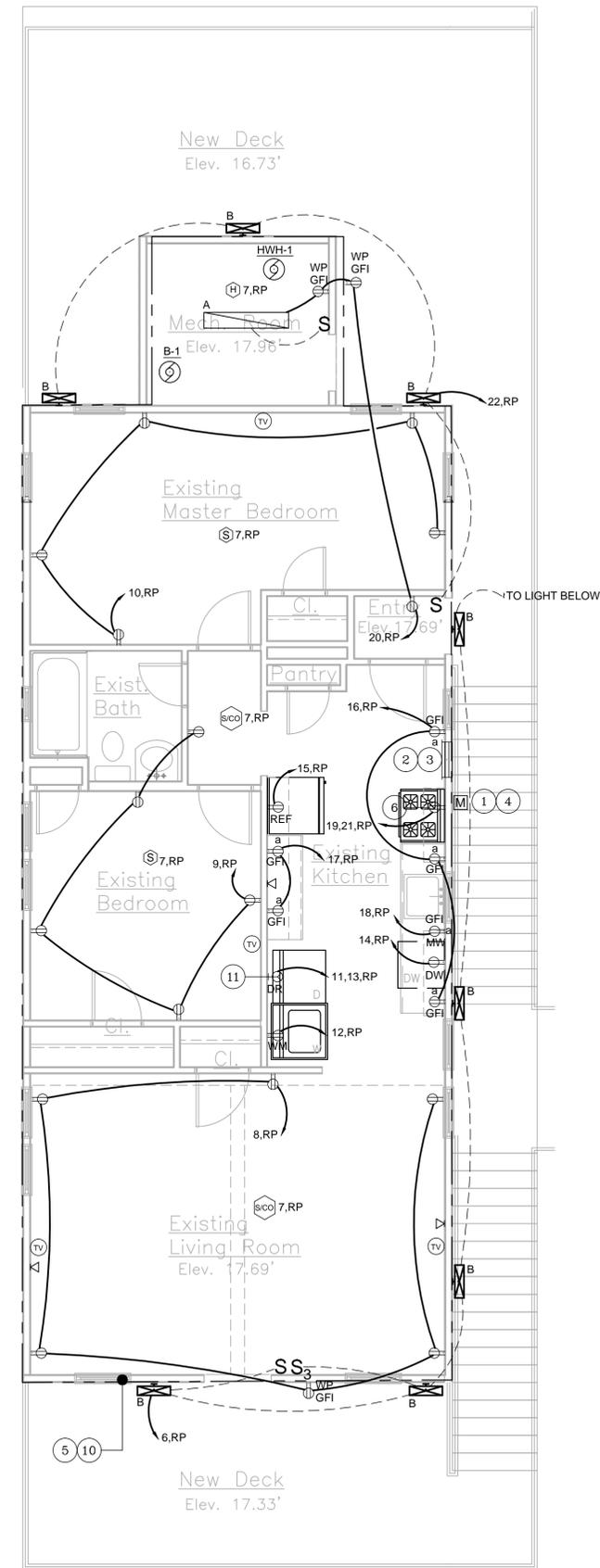
- DISCONNECT, CUT TO PROPER LENGTH AND RE-CONNECT TELEPHONE AND CABLE TV SERVICE ENTRANCE WIRING TO ACCOMMODATE LIFTING OF HOUSE. EQUIPMENT SHALL BE ABOVE THE 500 YEAR FLOOD PLANE. COORDINATE ALL WORK, INCLUDING SERVICE ENTRANCE EQUIPMENT MOUNTING HEIGHTS WITH ASSOCIATED UTILITY COMPANIES.
- PROVIDE NEW 100A, 240/120V ELECTRICAL PANEL. PANEL SHALL INCLUDE CIRCUIT BREAKER SIZES AND QUANTITIES TO MATCH EXISTING, PLUS ANY NEW BREAKERS CALLED OUT ON THE CONTRACT DOCUMENTS. PROVIDE NEW SERVICE GROUNDING ELECTRODE CONDUCTORS AND CONNECTIONS PER NEC ARTICLE 250.
- EXISTING PANELBOARD TO BE REMOVED AND REPLACED WITH NEW IN SAME LOCATION. ALL EXISTING BRANCH CIRCUITING TO REMAIN RE-WIRED TO PANELBOARD 'RP'
- DISCONNECT, CUT TO PROPER LENGTH AND RE-CONNECT SERVICE ENTRANCE THROUGH WEATHERHEAD TO METER TO ACCOMMODATE LIFTING OF HOUSE. EQUIPMENT SHALL BE ABOVE THE 500 YEAR FLOOD PLANE. COORDINATE ALL WORK, INCLUDING CONFIRMING PROPER MOUNTING HEIGHT OF METER, WITH THE UTILITY COMPANY. PROVIDE NEW 100 AMP RATED SERVICE ENTRANCE WIRING FROM METER TO NEW PANEL LOCATION.
- REMOVE ALL EXISTING RECEPTACLES AND THEIR ASSOCIATED BOXES AND WIRING IN THIS AREA THAT ARE CURRENTLY MOUNTED AT OR BELOW 48" ABOVE THE FLOOR OF THE FIRST LEVEL, DUE TO SUBMERSION IN SALT WATER. PROVIDE NEW OUTLETS AND CIRCUITING AS SHOWN.
- PROVIDE NEMA 10-50R RECEPTACLE FOR RANGE.
- WALL MOUNTED RECEPTACLES SHALL BE MOUNTED 44" AFF.
- REPLACE ALL EXISTING EXTERIOR RECEPTACLES WITH NEW GFI WEATHERPROOF RECEPTACLES AND BOXES. REPLACE WIRING BACK TO NEAREST ADJACENT DEVICE ABOVE THE ELEVATION AT WHICH FLOODING OCCURRED.
- REPLACE ALL EXISTING WIRING IN CRAWLSPACE BENEATH FIRST LEVEL DUE TO IMMERSION IN SALT WATER. NEW WIRING SIZE AND QUANTITY TO MATCH EXISTING.
- REPLACE ALL EXISTING WIRING AND BOXES IN THIS AREA THAT ARE CURRENTLY MOUNTED AT OR BELOW 48" ABOVE THE FLOOR OF THE FIRST LEVEL (AND THAT WERE NOT REPLACED UNDER KEYNOTE 5). DUE TO SUBMERSION IN SALT WATER. WIRE AND BOX SIZES AND QUANTITIES TO MATCH EXISTING.
- PROVIDE NEMA 10-30R RECEPTACLE FOR DRYER.
- PVC CONDUIT AND WIRING SHALL BE USED FOR ALL DEVICES IN LOCATED IN THE BASEMENT.

PANELBOARD RP				PHASE LOAD - KVA				BREAKER			
#	A	P	DESCRIPTION	LOAD	A	B	LOAD	DESCRIPTION	A	P	#
1	15	1	B-1	0.18	0.42	0.24	0.24	HWH-1	15	1	2
3	20	1	GARAGE RECEPTACLES	0.72	0.90	0.18	0.18	GARAGE DOOR OPENER	15	1	4
5	20	1	GARAGE LIGHTING	0.18	0.32	0.14	0.14	EXTERIOR LIGHTING	20	1	6
7	20	1	DETECTORS	1.08	2.16	1.08	1.08	LIVINGROOM RECEPTACLES	20	1	8
9	20	1	BEDROOM RECEPTACLES	0.72	1.62	0.90	0.90	BEDROOM RECEPTACLES	20	1	10
11	30	2	DRYER	2.00	3.20	1.20	1.20	WASHER	20	1	12
13	-	-	-	2.00	3.20	1.20	1.20	DISHWASHER	20	1	14
15	20	1	REFRIGERATOR	1.20	1.74	0.54	0.54	KITCHEN RECEPTACLES	20	1	16
17	20	1	KITCHEN RECEPTACLES	0.36	1.76	1.40	1.40	MICROWAVE OVEN	20	1	18
19	40	2	RANGE	-	0.54	0.54	0.54	RECEPTACLES	20	1	20
21	-	-	-	-	0.05	0.05	0.05	EXTERIOR LIGHTING	20	1	22
23	15	1	EXISTING RANGE HOOD	-	-	-	-	EXISTING ATTIC OUTLET	15	1	24
25	15	1	EXISTING LOADS	-	-	-	-	EXISTING FAN	15	1	26
27	15	1	EXISTING LOADS	-	-	-	-	EXISTING FURNACE	15	1	28
29	15	1	EXISTING LOADS	-	-	-	-	EXISTING LOADS	15	1	30
31	20	1	EXISTING LOADS	-	-	-	-	EXISTING LOADS	15	1	32
33	20	1	EXISTING LOADS	-	0.18	0.18	0.18	HEAT TRACE	20	1	34
35	20	1	SPARE	-	-	0.18	0.18	HEAT TRACE SANITARY	20	1	36
37	20	1	SPARE	-	-	-	-	SPARE	20	1	38
39	20	1	SPARE	-	-	-	-	SPARE	20	1	40
41	20	1	SPARE	-	-	-	-	SPARE	20	1	42
<b>TOTAL LOAD PER PHASE:</b>				7.5	8.7						
<b>TOTAL LOAD ON PANEL:</b>				16.27	KVA						

NOTE  
1. ALL NEW AND EXISTING BEDROOM CIRCUITS SHALL BE WIRED TO NEW AFCI CIRCUIT BREAKERS.



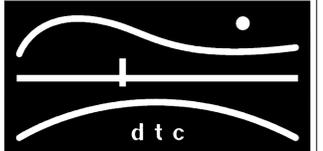
1 BASEMENT PLAN  
SCALE: 1/4" = 1'-0"



2 FIRST FLOOR PLAN  
SCALE: 1/4" = 1'-0"

NOTES:

REVISIONS



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APPLICATION NO. 1253  
MASURY RESIDENCE  
31 MOREHOUSE AVE.  
MILFORD, CT 06460

ELECTRICAL  
BASEMENT & FIRST  
FLOOR PLANS

DTC PROJECT NUMBER: 13-449-009

DTC DRAWING FILE:

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

DRAWN BY: WM

DATE: 8/20/2014

CHECKED BY: JP

SHEET:

E-100