

AMAYA ARCHITECTS

ADDENDUM NUMBER 2

For:

**Mirmina Residence
22 James Street
Milford, Connecticut**

Project Number 1249

22nd of July 2015

The Drawings and Specifications prepared by Amaya Architects and its Consultants entitled **“Construction of a New Foundation under a Raised Structure and Interior Renovations”** and known as the **“Mirmina Residence, 22 James Street, Milford, Connecticut”** Project Number 1249, Drawings and Specifications (Bid Set), are hereby amended in the following particulars:

<u>Item #</u>	<u>Section/Dwg</u>	<u>Description</u>
1		Reinstate Site - Provide all labor, materials, equipment, services, and transportation required to “Re-Instate” the Site to original conditions (including, but not limited to topsoil, walkways, gravel driveways and bituminous pavement). Stripped topsoil shall be re-spread to existing finish grade elevations and seeded.
2		Strapping – New strapping should be included as part of the overall scope of work. See Drawings for locations and detailed installation information.
3		Deleted Drawings – Delete the following Drawing Sheets from the Bid Set; EX1, A2, A4, A6, E1, E2, P1 and P2, dated the 4 th of June 2015.
4		Add Drawings – Add the following revised Drawing Sheets to the Bid Set; EX1, A2, A4, A6, E1, E2, P1 and P2, dated the 13 th of July 2015. All revised drawing sheets are included with this Addendum.
5	Drawing EX1	Revised EX1 Drawing – Revisions to Drawing include, but may not be limited to the following items; Remove existing furnace and related piping, Remove existing water heater and related piping, remove and cap existing chimney.
6	Drawing A2	Revised A2 Drawing – Revisions to Drawing include, but may not be limited to the following items; Provide a new condensing boiler with concentric vent, Frame in the existing opening, Provide a new door and frame as indicated on the drawing.

7	Drawing A4	Revised A4 Drawing – Revisions to Drawing include, but may not be limited to the following items; Extend the top of the furred out wall located in the stair against the concrete wall (Detail 4/A4) to be at 3'-6" above the intermediate landing elevation, Provide insulation under the stair from Garage Area to First Floor as indicated in Detail 2/A4.
8	Drawing A6	Revised A6 Drawing – Revisions to Drawing include, but may not be limited to the following items; Provide insulation under the stair from Garage Area to First Floor as indicated in Detail 2/A4, Delete reference to 5" thick concrete slab with reinforcing from scope of work.
9	Drawing E1	Revised E1 Drawing – Revisions to Drawing include, but may not be limited to the following items; Remove existing furnace switching.
10	Drawing E2	Revised E2 Drawing – Revisions to Drawing include, but may not be limited to the following items; Provide a new thermostat located as shown on the Drawing.
11	Drawing P1	Revised P1 Drawing – Revisions to Drawing include, but may not be limited to the following items; Provide a new condensate line for the condensing boiler, which includes related 2" PVC piping and cleanouts as indicated on the Drawing.
12	Drawing P2	Revised P2 Drawing – Revisions to Drawing include, but may not be limited to the following items; Provide new hot and cold water piping as indicated on Drawing P2, provide new baseboard in locations shown.
13	Drawing A1	Concrete Slab - Delete reference to 5" thick concrete slab with reinforcing from scope of work.
14	Section 23500	Delete Specification Section 23500 – Delete the Specification Section 23500 included in the Bid Set entitled Condensing Boiler.
15	Section 23500	Add Specification Section 23500 – Add the Specification Section 23500 included with this Addendum entitled Condensing Boiler.
16		Change Orders – Modification to Wording – For all change orders up to \$25,000.00, Overhead and Profit can be calculated at 15 Percent. For Change Orders over \$25,000.00, Overhead and Profit should be calculated at 12 Percent.

END OF ADDENDUM TWO

SECTION 23500

CONDENSING BOILER

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes packaged, factory-fabricated and -assembled, gas-fired stainless-steel condensing boiler, trim, and accessories for generating hot water as scheduled and detailed in the Contract Documents, and as specified herein.
 - 1. Condensing Boiler
- B. Related Sections: Refer to the following sections for related work:
 - 1. Section 22100 'Plumbing Piping' for all piping.
 - 2. Section 26100 'Wiring, Switches and Outlets' for electrical wiring and switches.

1.2 REFERENCES

- A. National Fire Protection Agency (NFPA): NFPA 70 – National Electrical Code (NEC) 7011 Edition.
- B. American Society of Mechanical Engineers (ASME).
- C. ANSI/UL 795.
- D. American Society of Heating and Air-Conditioning Engineers (ASHAE).

1.3 SUBMITTALS

- A. General: Submit the following in accordance with conditions of Contract.
- B. Submit Product Data: include performance data, operating characteristics, furnished specialties, and accessories.
- C. Shop Drawings: For boiler, boiler trim, and accessories. Include plans, elevations, sections, details, and attachments to other work

1.4 WARRANTY

- A. General Warranty: Special warranty specified in Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents, and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of Contract Documents.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver condensing boiler components in the Manufacturer's original undamaged and unopened containers with labels intact and legible.
- B. Store and handle materials to prevent damage and deterioration.

PART 2 PRODUCTS

2.1 GENERAL

- A. All materials shall meet or exceed all applicable referenced standards, Federal, State and Local requirements and conform to codes and ordinances of the authorities having jurisdiction.
- B. Provide condensing boiler as indicated and scheduled on the Contract Drawings and as specified herein.

2.2 PRODUCTS

- A. Condensing Boiler: 'Q Premier 85' gas-fired stainless steel condensing boiler with concentric ventilation/air supply configuration, Model No. QP85 as manufactured by Rinnai Corporation or approved equal.
- B. Characteristics and Capacities:
 - 1. Heating Medium: Hot Water.
 - 2. Design Water Pressure Rating: 45 PSI.
 - 3. Safety Relief Valve Setting: 30 PSI
 - 4. Minimum Water Temperature (entering): No minimum required.
 - 5. Maximum Water Temperature (leaving): 176° F.
 - 6. Design Flow Rate: 2.35 GPM
 - 7. Minimum Efficiency AFUE: 96.5%
 - 8. Part Load Efficiency: 98.8%
 - 9. Minimum Inlet Gas (NG) Pressure: 4.0" W.C.
 - 10. Maximum Inlet Gas (NG) Pressure: 10.5" W.C.
 - 11. Heating Capacity: 78 MBH
 - 12. Electrical Voltage Main: 120/60 VAC/Hz
 - 13. Electrical Voltage Controls: 24 VDC
 - 14. Power Consumption Maximum Load: 172 Watts

15. Power Consumption Standby Load: 14 Watts
16. Circuit Breaker Rating: 15 Amps

PART 3 EXECUTION

3.1 EXAMINATION

- A. Installation shall meet or exceed all applicable Federal, State and Local requirements, referenced standards and conform to code and ordinances of authorities having jurisdiction.
- B. Install condensing boiler in accordance with the manufacturers written instructions, the applicable requirements of the NEC, ASME and ASHRAE.
- C. Examine mechanical spaces for suitable conditions where boilers will be installed.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 BOILER INSTALLATION

- A. Install gas-fired boiler according to NFPA 54.
- B. Assemble and install boiler trim.
- C. Install electrical devices furnished with boiler but not specified to be factory mounted.
- D. Install control wiring to field-mounted electrical devices.

3.3 CONNECTIONS

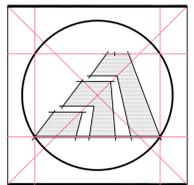
- A. Piping installation requirements are specified in other Division 21 Sections. Drawings indicate only schematic arrangement of piping, fittings, and specialties.
- B. Install piping adjacent to boiler to allow service and maintenance.
- C. Install piping from equipment drain connection to nearest condensate drain. Piping shall be at least full size of connection. Provide an isolation valve if required.
- D. Connect piping to boiler as required and as recommended by the manufacturer.
- E. Connect gas piping to boiler gas-train inlet with union. Piping shall be at least full size of gas train connection. Provide a reducer if required.

- F. Connect hot-water piping to supply- and return-boiler tapplings with shutoff valve and union or flange at each connection.
- G. Install piping from safety relief valves to nearest condensate drain.
- H. Boiler Venting:
 - 1. Install concentric venting kit and combustion-air intake as shown on drawings and as per manufacturer's recommendations.
 - 2. Connect full size to boiler connections.
- I. Ground equipment as required and as recommended by the manufacturer.
- J. Connect wiring as required and as recommended by the manufacturer.

3.4 TESTING

- A. Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing
- B. Perform installation and startup checks according to manufacturer's written instructions.
 - 1. Leak Test: Hydrostatic test. Repair leaks and retest until no leaks exist.
 - 2. Operational Test: Start units to confirm proper motor rotation and unit operation. Adjust air-fuel ratio and combustion.
 - 3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
 - a. Check and adjust initial operating set points and high- and low-limit safety set points of fuel supply, water level and water temperature.
 - b. Set field-adjustable switches and circuit-breaker trip ranges as indicated.
- C. Remove and replace malfunctioning units and retest as specified above.
- D. Document test results in a report and submit to Architect/Engineer.

END OF SECTION



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ADDENDUM NO. 1 7/13/15

Sheet Title:
PROPOSED CROSS SECTIONS

APPLICATION # 1249
MIRMINA RESIDENCE
22 James Street
Milford, Connecticut 06460

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

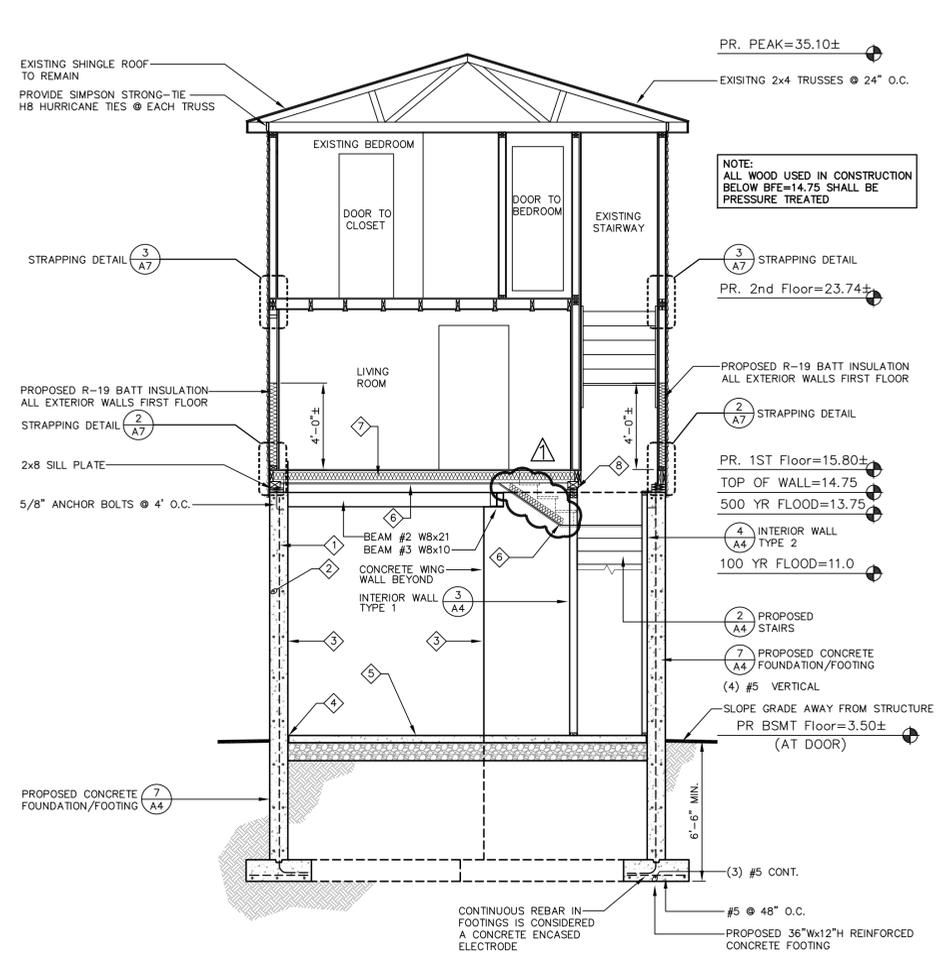
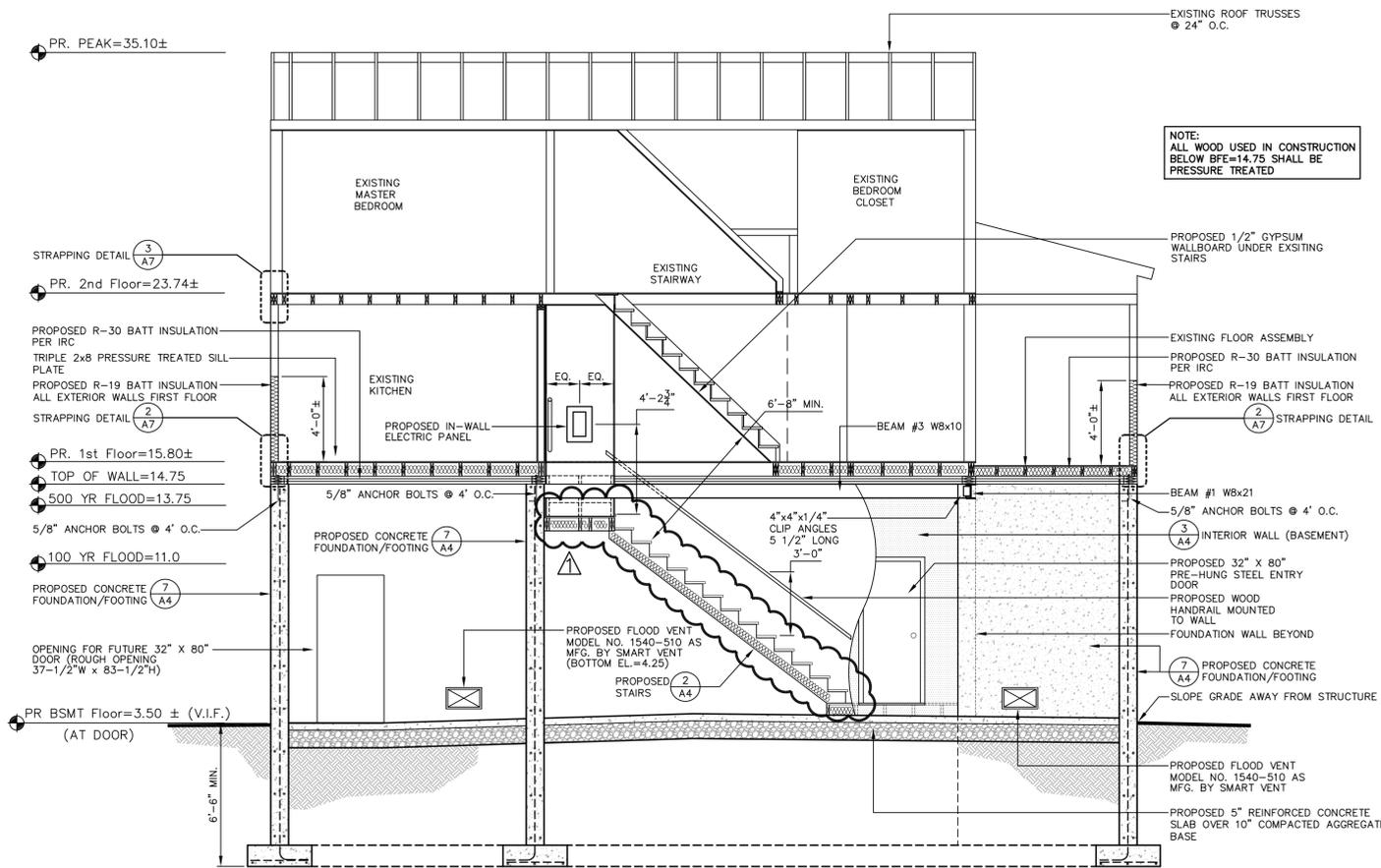
Date: ISSUED 2/17/2015
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Job Number: 588
Drawn By: G.H.J.

Sheet Number:
A6

SECTION NOTE LEGEND

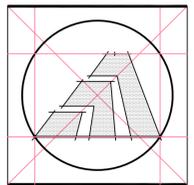
- ① (2) #4 REBAR @ 24" O.C. VERTICAL
- ② (2) #4 REBAR @ 18" O.C. HORIZONTAL
- ③ 10" REINFORCED CONCRETE WALL.
- ④ EXPANSION JOINT AROUND PERIMETER OF FLOOR SLAB.
- ⑤ 5" THICK REINFORCED CONCRETE SLAB w/ 6"x6" 2.9x2.9 W/M .
SLOPE SLAB TOWARD OVERHEAD DOORS @ 1/4" PER FT. MIN.
- ⑥ 5/8" TYPE X SHEETROCK.
- ⑦ PROPOSED R-30 BATT INSULATION PER IRC.
- ⑧ PROVIDE 2"x6" BLOCKING AS REQUIRED. BOLT FIRST 2"x6" TO
FLANGE w/ 1/2" BOLTS @ 24" O.C. STAGGERED.



1 PROPOSED SECTION (NORTH-SOUTH)
A6 SCALE: 1/4"=1'-0"

2 PROPOSED SECTION (EAST-WEST)
A6 SCALE: 1/4"=1'-0"

NOTE:
CONTRACTOR IS RESPONSIBLE FOR SUPPORTING
EXISTING STRUCTURE THROUGHOUT THE ENTIRE
CONSTRUCTION PERIOD INCLUDING RAISING AND
SECURING THE STRUCTURE UPON THE PROPOSED
FOUNDATION AT THE NEW ELEVATION.



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ADDENDUM NO. 1 7/13/15

Sheet Title:
EXISTING FIRST FLOOR ELECTRIC PLAN/ DEMOLITION PLAN

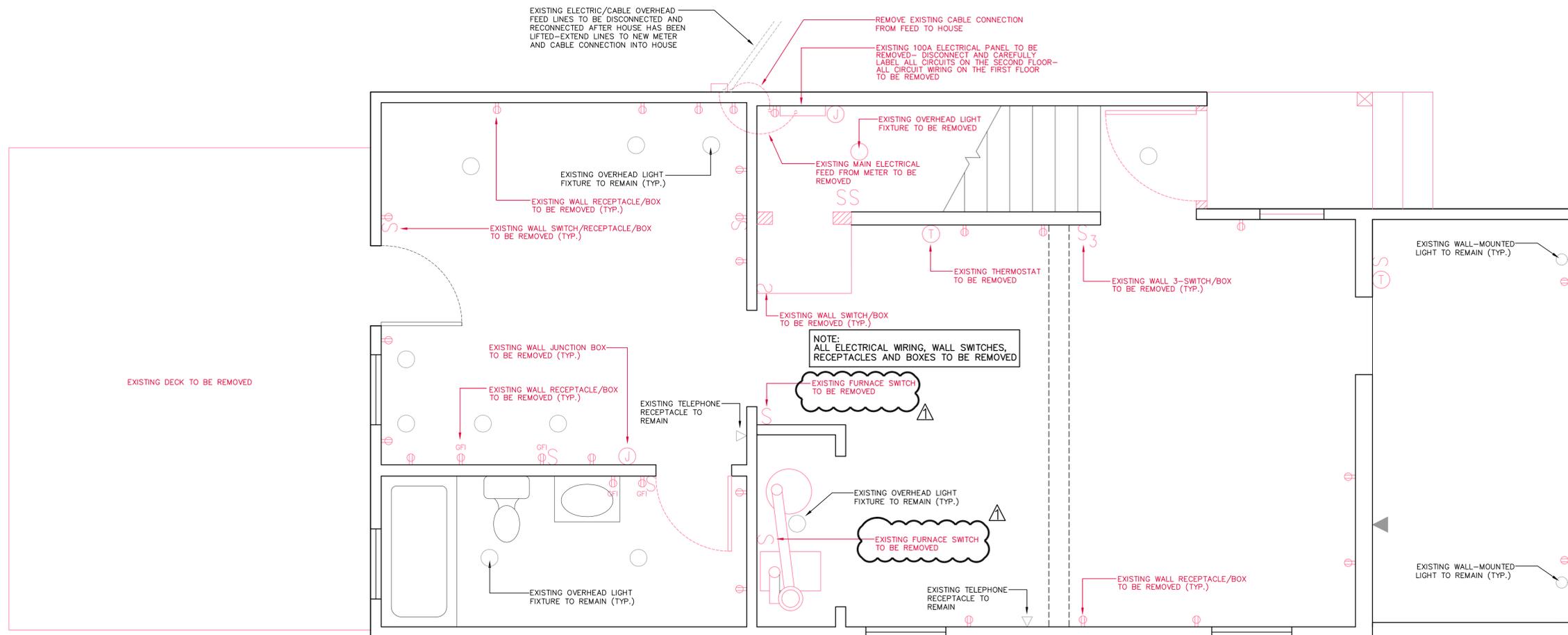
APPLICATION # 1249
MIRMINA RESIDENCE
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STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

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Sheet Number:
E1



1 EXISTING FIRST FLOOR ELECTRICAL PLAN / DEMOLITION PLAN
E1 SCALE: 1/2"=1'-0"

ELECTRICAL LEGEND

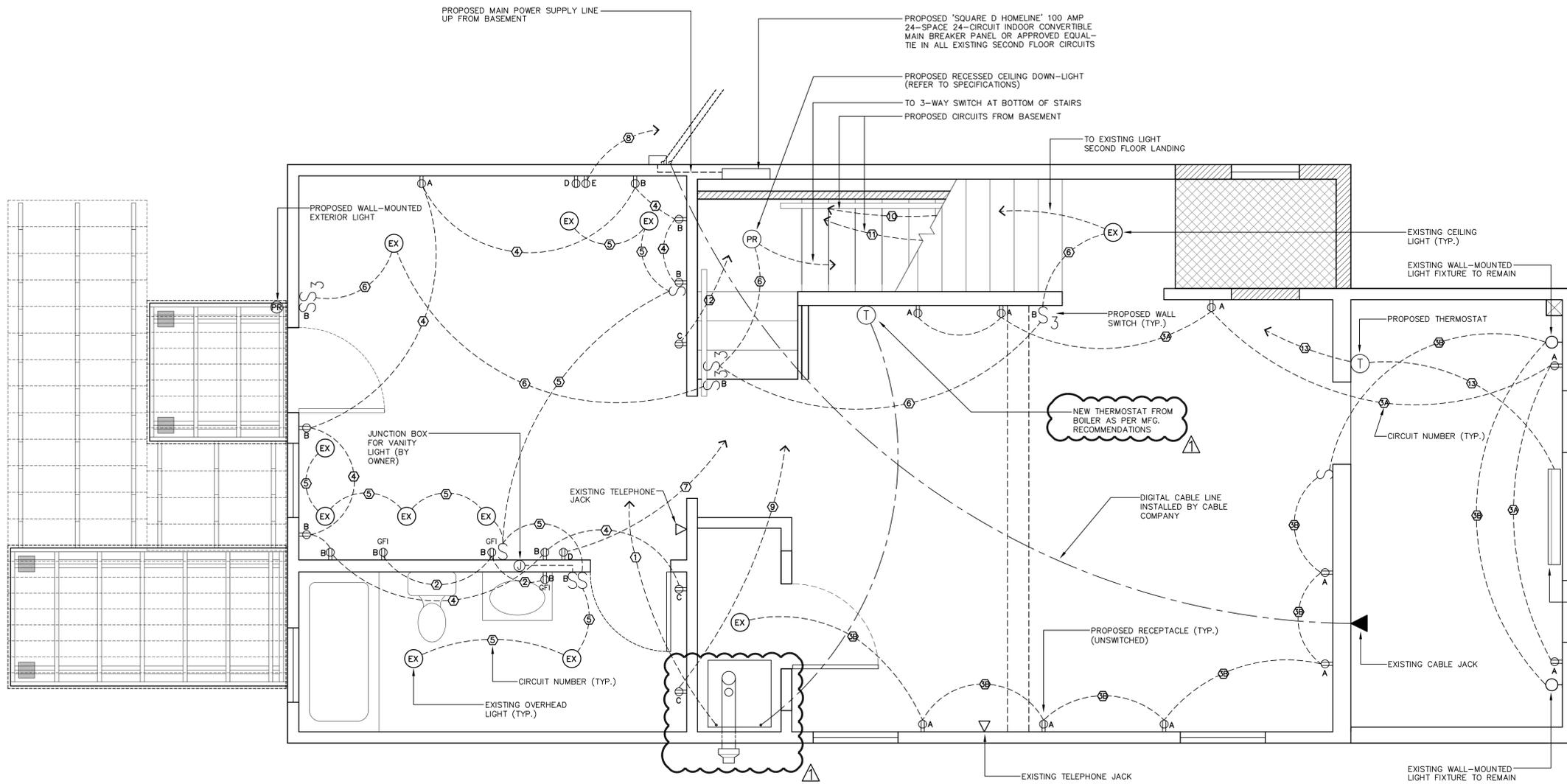
S	SINGLE-POLE SWITCH	⊕	QUAD-RECEPTACLE
S ₃	THREE-WAY SWITCH	⊕	DRYER RECEPTACLE
S ₄	FOUR-WAY SWITCH	⊙	THERMOSTAT
⊕	DUPLEX RECEPTACLE	⊙	JUNCTION BOX
⊕	GFI DUPLEX RECEPTACLE	⊙	CEILING FAN & LIGHT
⊕	CABLE OUTLET		
⊕	PHONE OUTLET		
⊕	CEILING MOUNTED LIGHT FIXTURE		
⊕	WALL MOUNTED LIGHT FIXTURE		

PLAN COLOR LEGEND:

⊕ EXISTING ELECTRICAL FIXTURE TO BE REMOVED

⊕ PROPOSED ELECTRICAL FIXTURE

⊕ EXISTING ELECTRICAL FIXTURE TO REMAIN



ELECTRIC CIRCUIT LEGEND

FUSE	DESCRIPTION
1	120V/15A CONDENSING BOILER
2	120V/20A GFCI OUTLETS (KITCHEN/BATH)
3A	120V/15A RECEPTACLES (LIVING ROOM/DEN)
3B	120V/15A RECEPTACLES/LIGHTS (LIVING ROOM/DEN)
4	120V/20A RECEPTACLES (KITCHEN)
5	120V/20A OVERHEAD LIGHTS (KITCHEN/BATHROOM)
6	120V/20A OVERHEAD LIGHTS (LIVING ROOM/HALLWAY)
7	120V/15A KITCHEN APPLIANCES (DISHWASHER)
8	120V/20A KITCHEN APPLIANCES (MICROWAVE/RANGE)
9	120V/15A WASHER (BATH)
10	120V/20A LIGHTS/RECEPTACLES (BASEMENT)
11	120V/15A WALL-MOUNTED ELECTRIC HEATER
12	120V/15A REFRIGERATOR
13	240V/15A BASEBOARD ELECTRIC HEAT (DEN)

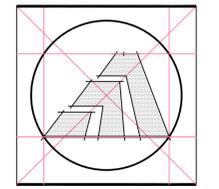
BOX HEIGHT FROM FLOOR

A 15" RECEPTACLES
 B 48" RECEPTACLES/SWITCHES
 C 30" RECEPTACLES (REFRIGERATOR/LAUNDRY)
 D 9" RECEPTACLES (DISHWASHER/RANGE)
 E - RECEPTACLE IN OVERHEAD CABINET (MICROWAVE)

ELECTRICAL SPECIFICATION NOTES:

- REFER TO SPECIFICATION SECTION 26100 FOR WIRING, SWITCHES AND OUTLETS.
- REFER TO SPECIFICATION SECTION 26500 FOR FIXTURES AND APPLIANCES.

36" 240 VOLT 750 WATT STANDARD ELECTRIC BASEBOARD HEATER MODEL NO. 3F750W AS MFG. BY CADET OR APPROVED EQUAL



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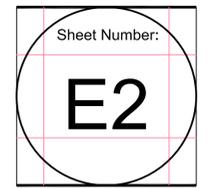
Sheet Title:
**PROPOSED BASEMENT/
 FIRST FLOOR
 ELECTRIC PLAN**

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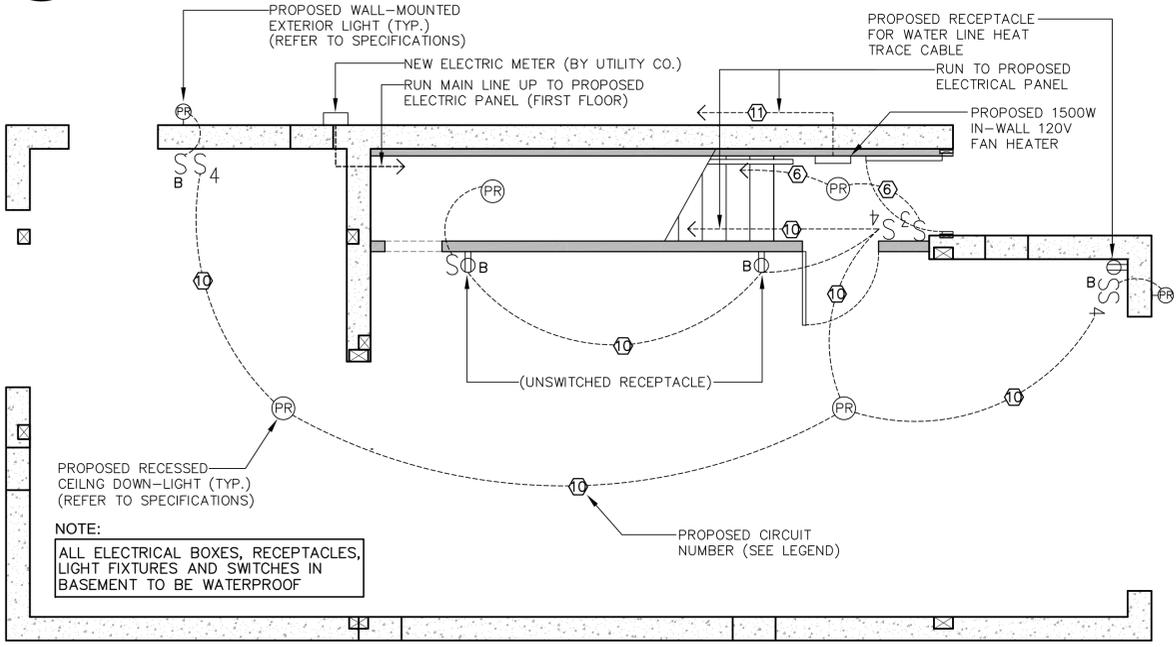
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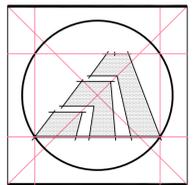
1 EXISTING FIRST FLOOR ELECTRICAL PLAN
 E2 SCALE: 1/2"=1'-0"



ELECTRICAL LEGEND

S	SINGLE-POLE SWITCH	⊕	QUAD-RECEPTACLE
S ₃	THREE-WAY SWITCH	⊕	DRYER RECEPTACLE
S ₄	FOUR-WAY SWITCH	○	THERMOSTAT
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⊕	PHONE OUTLET		
○	CEILING MOUNTED LIGHT FIXTURE		
○	WALL MOUNTED LIGHT FIXTURE		
	PLAN COLOR LEGEND:		
⊕	EXISTING ELECTRICAL FIXTURE TO BE REMOVED		
⊕	PROPOSED ELECTRICAL FIXTURE		
⊕	EXISTING ELECTRICAL FIXTURE TO REMAIN		

2 PROPOSED BASEMENT ELECTRICAL PLAN
 E2 SCALE: 1/4"=1'-0"



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ADDENDUM NO. 1 7/13/15

Sheet Title:
PROPOSED BASEMENT PLUMBING PLAN

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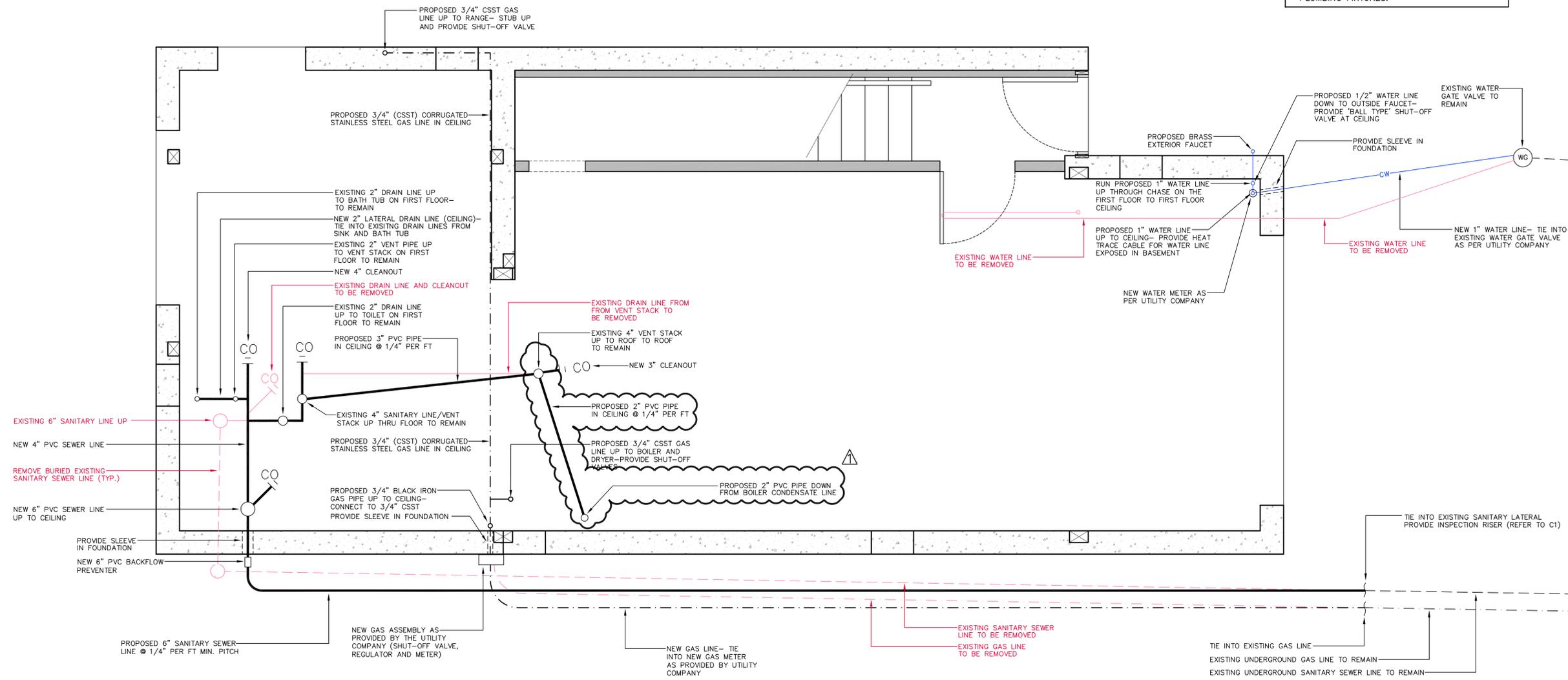
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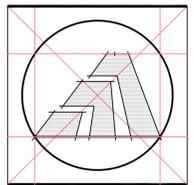
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Sheet Number:
P1

NOTE:
1. REFER TO SPECIFICATION SECTION 22100 FOR PLUMBING PIPING.
2. REFER TO SPECIFICATION SECTION 22400 FOR PLUMBING FIXTURES.



1 PROPOSED BASEMENT PLUMBING PLAN
P1 SCALE: 1/2"=1'-0"



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Sheet Title: FIRST FLOOR PLUMBING PLAN

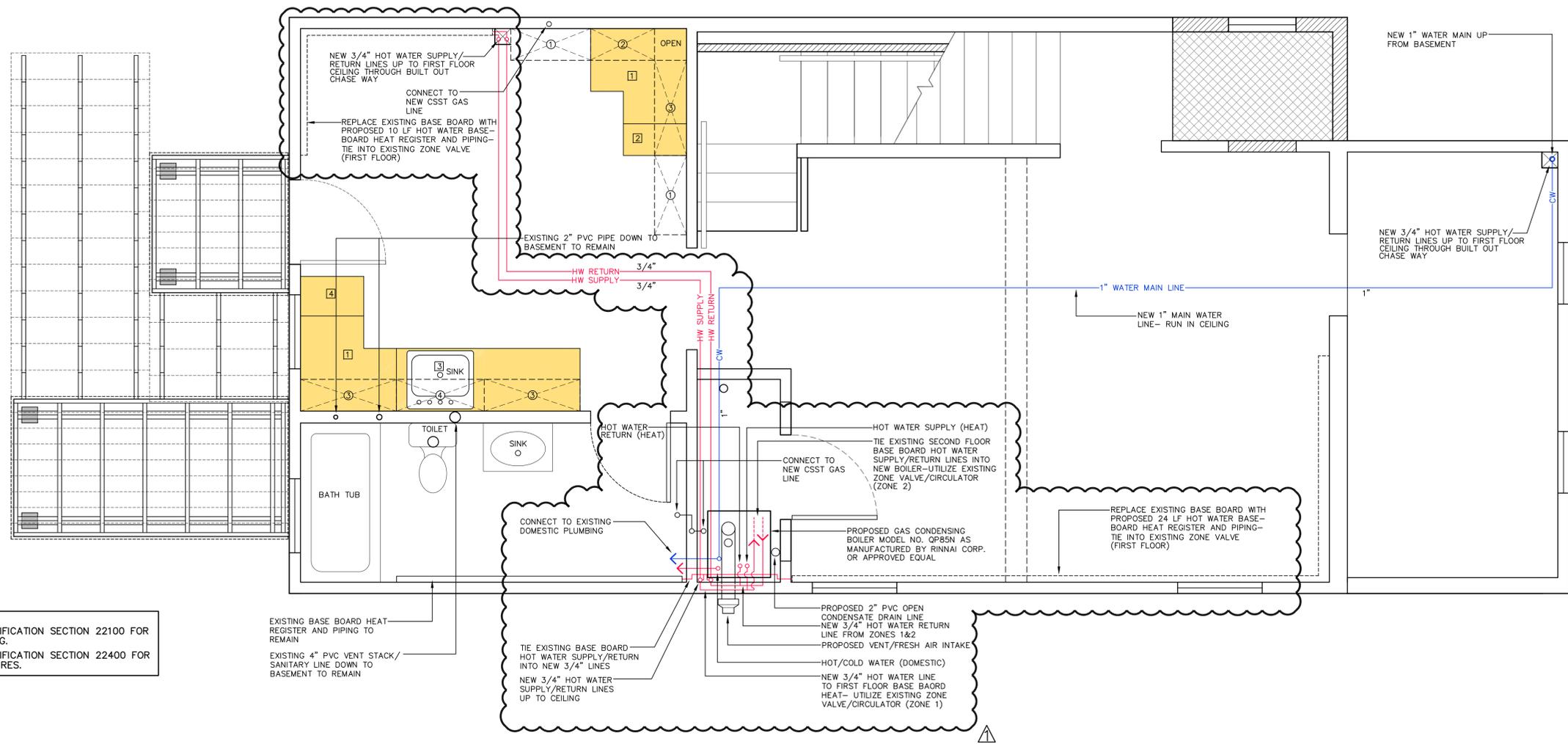
APPLICATION # 1249 MIRMINA RESIDENCE 22 James Street Milford, Connecticut 06460

STATE OF CONNECTICUT DEPARTMENT OF HOUSING COMMUNITY DEVELOPMENT BLOCK GRANT DISASTER RECOVERY PROGRAM OWNER OCCUPIED REHABILITATION AND REBUILDING PROGRAM (OORR)

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Sheet Number: P2



NOTE: 1. REFER TO SPECIFICATION SECTION 22100 FOR PLUMBING PIPING. 2. REFER TO SPECIFICATION SECTION 22400 FOR PLUMBING FIXTURES.

EXISTING BASE BOARD HEAT REGISTER AND PIPING TO REMAIN EXISTING 4" PVC VENT STACK/SANITARY LINE DOWN TO BASEMENT TO REMAIN

CONNECT TO EXISTING DOMESTIC PLUMBING TIE EXISTING BASE BOARD HOT WATER SUPPLY/RETURN INTO NEW 3/4" LINES PROPOSED 2" PVC OPEN CONDENSATE DRAIN LINE NEW 3/4" HOT WATER RETURN LINE FROM ZONES 1&2 PROPOSED VENT/FRESH AIR INTAKE HOT/COLD WATER (DOMESTIC) NEW 3/4" HOT WATER LINE TO FIRST FLOOR BASE BOARD HEAT- UTILIZE EXISTING ZONE VALVE/CIRCULATOR (ZONE 1)

1 FIRST FLOOR PLUMBING PLAN P2 SCALE: 1/2"=1'-0"