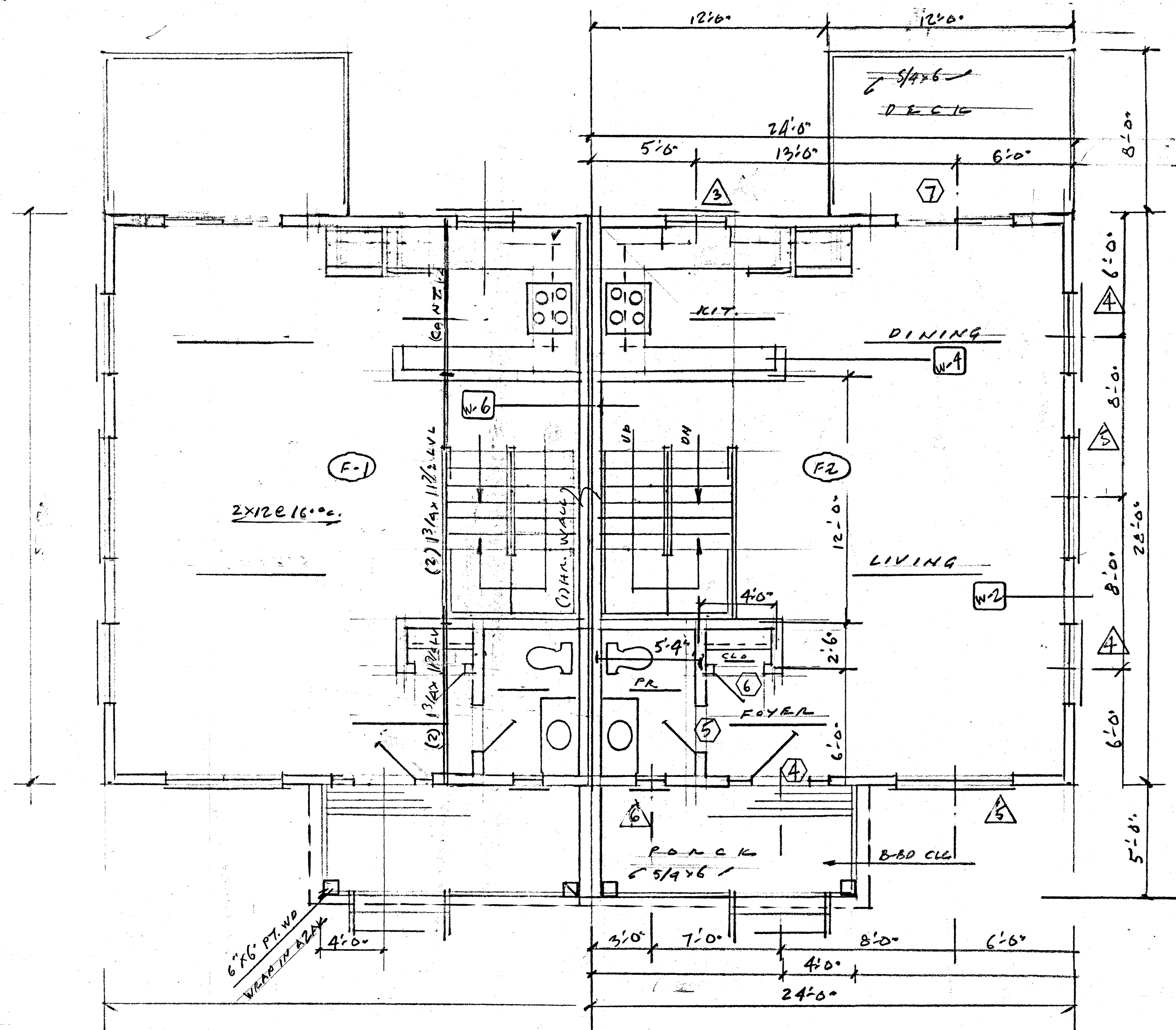


SECOND FLOOR FRAMING

FIRST LEVEL PLAN

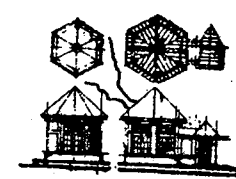
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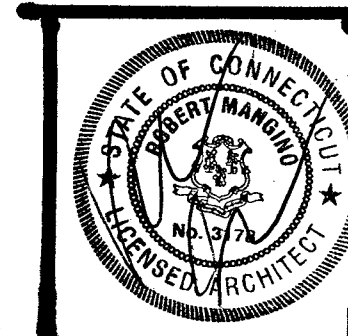
THIRD FLOOR FRAMING

SECOND FLOOR PLAN

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



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PROPOSED DUPLEX
106 MAIN STREET
EAST HAMPTON, CONN.

DATE: 8/1/20

al

NEW WINDOW SCHEDULE							
CLASS TYPE	WIDTH	HEIGHT	INSULATED	EXTERIOR FINISH	INTERIOR FINISH	JAMB TYPE	REMARKS
△	3'-0"	3'-0"	✓	VC	WD	WD	AWN (T)
△	2'-0"	3'-8"	✓	VC	WD	WD	DH
△	3'-0"	3'-4"	✓	VC	WD	WD	DH
△	3'-0"	5'-4"	✓	VC	WD	WD	DH
△	2'-9"-0"	5'-4"	✓	VC	WD	WD	DH / F.M.
△	2'-0"	3'-6"	✓	VC	WD	WD	DH
△	0'-2'-3"	4'-5"	✓	VC	WD	WD	DH / F.M.
△	5'-8"	2'-0"	✓	VC	WD	WD	AWN / T

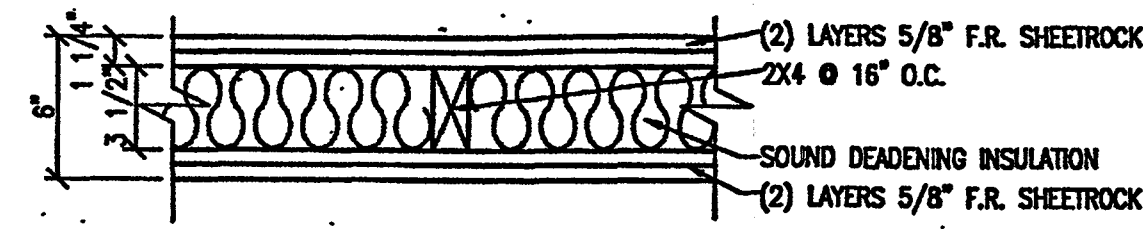
ABBREVIATIONS
 C CASEMENT
 F FIXED
 D.H. DOUBLE HUNG
 FM FACTORY MULLION
 E EGRESS
 T TEMPERED

- FINISH NOTES:
1. ALL FINISHES SHALL MEET ALL APPLICABLE CODES, BUILDING AND FIRE OFFICIALS APPROVAL. (SUBMIT SAMPLES AS REQ. FOR APPROVAL)
 2. ALL WORKMANSHIP SHALL BE OF THE HIGHEST PROFESSIONAL CALIBER.
 3. ALL WORK SHALL MEET ALL APPLICABLE STATE, LOCAL, BUILDING, FIRE, ETC. CODES.
 4. ALL WORK RELATIVE TO THE MECHANICAL, ELECTRICAL, PLUMBING, FIRE DETECTION SYSTEM, SHALL MEET ALL APPLICABLE CODES. SUCH INFORMATION, DESIGN DETAILS ARE NOT PART OF THIS SUBMISSION AND IF REQUIRED SHALL BE SUBMITTED AT A LATER DATE.
 5. LOCATION OF UNIT PARTITIONS MAY BE ADJUSTED IN THE FIELD.
 6. CONTINUOUS CAULKING AROUND DOOR, WINDOW FRAMES AS REQUIRED.
 7. R.O TO BE SET FROM MANUFACTURERS SHOP DRAWINGS
 8. ALL DOORS WITH 3 BUTTS.
 9. ALL DOORS WITH LOCKING
 10. SHEETROCK (3) COAT TAPING APPLICATION.
 11. ALL INTERIOR TRIM TO BE PAINTED.

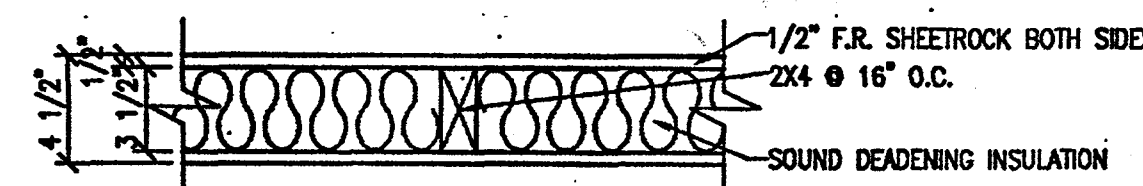
2 WINDOW SCHEDULE
NO SCALE

	ROOM FINISH SCHEDULE											REMARKS							
	FLOORS			WALLS			CEILINGS			BASE									
	CONCRETE	W/VC	CERAMIC TILE	CARPET	HARDWOOD	UNFINISHED SHEETROCK	WALL COVERING	CERAMIC TILE	STAINLESS STEEL	FABRIC	WOOD PANEL	P.F. SHEETROCK	CMU	ACOUSTICAL SHEETROCK	P.F. SHEETROCK	VNTL	WOOD	CERAMIC TILE	
GROUND FLOOR																			
ENTRY																			
GARAGE																			
STAIR																			
LIVING																			
DINING																			
KITCHEN																			
B.R-1																			
BEDRM-2																			
BEDRM-3																			
CLOSET																			
LAUNDRY																			

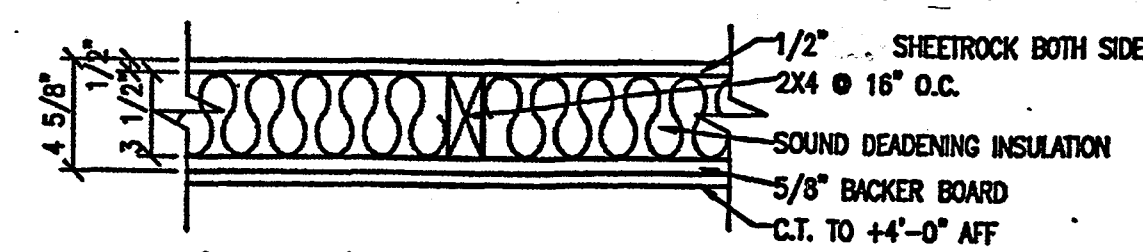
1 ROOM FINISH SCHEDULE
NO SCALE



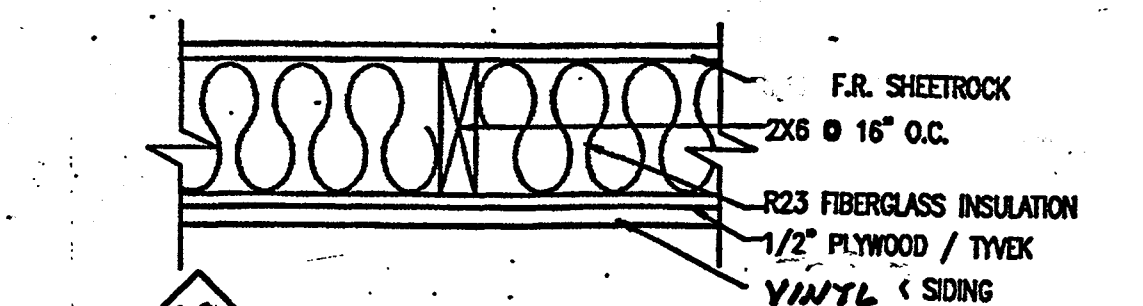
W5
UL NO. US01
(2) HOUR WALL



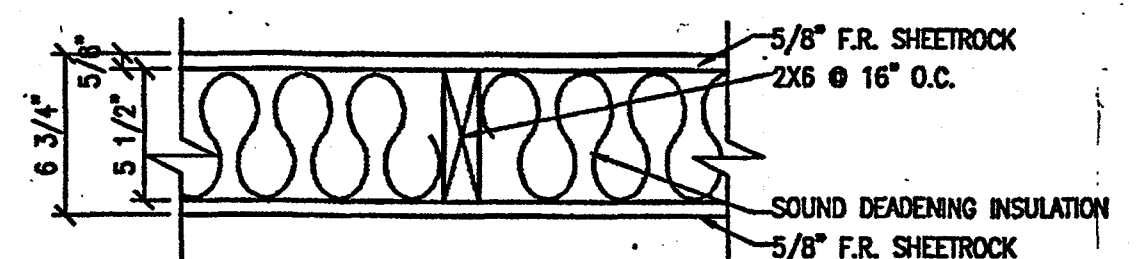
W2
2x6 WALL



W3
2x6 WALL



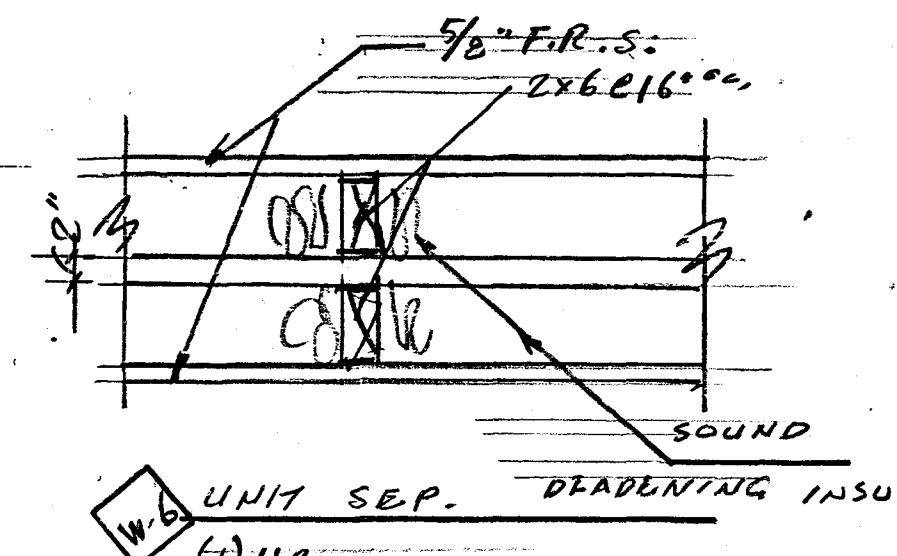
W2
VINYL SIDING



W1
UL NO. US05
(1) HOUR WALL

W1
A (2x4)

WALL TYPES



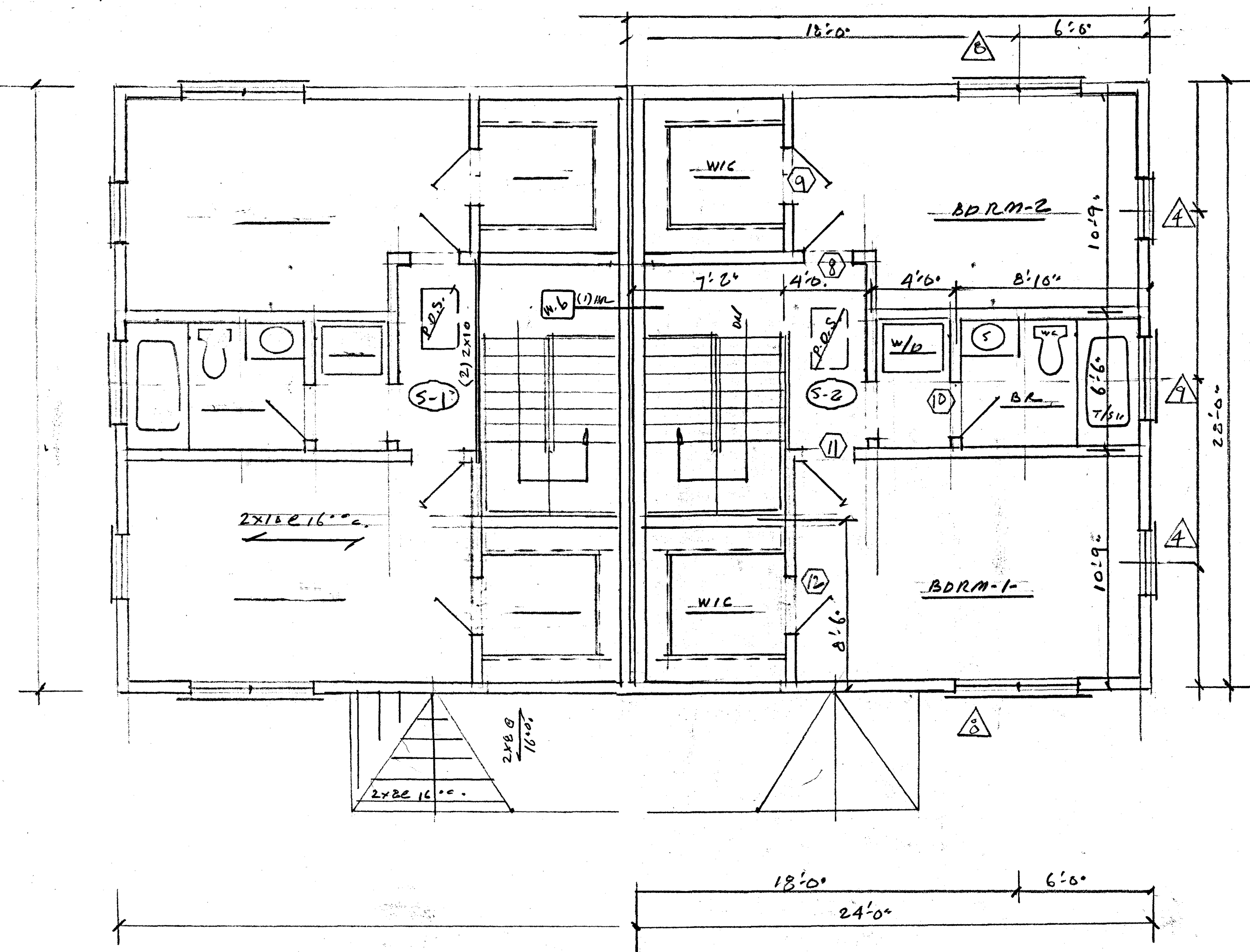
W6
UNIT SEP. DEADENING INSUL.

DOOR SCHEDULE											REMARKS
LOCATION	WIDTH	HEIGHT	THICKNESS	FINISH	MATERIAL	THRESHOLD	JAMB TYPE	DOOR TYPE	RATING	CLOSER	
①	3'-0"	6'-8"	1 3/4"	P	AL	WD	D			✓ EXT.	
②	8'-0"	8'-0"								O.H.	
③	2'-0"	6'-8"	1 3/4"	VL	AL	WD	D	20		✓	
④	3'-0"	6'-8"	1 3/4"	P		WD	B			✓ EXT. w/ SLOPE	
⑤	2'-6"	6'-8"	1 3/4"	P		WD	C				
⑥	2'-4"	6'-8"	1 3/4"	P	WB	WD	C				
⑦	6'-0"	6'-8"	1 3/4"	P	WB	WD	B			S.G.R.	
⑧	2'-6"	6'-8"	1 3/4"	P	WB	WD	C				
⑨	2'-6"	6'-8"	1 3/4"	P	WB	WD	C				
⑩	2'-6"	6'-8"	1 3/4"	P	WB	WD	C				
⑪	2'-6"	6'-8"	1 3/4"	P	WB	WD	C				
⑫	2'-6"	6'-8"	1 3/4"	P	WB	WD	C				
⑬											
⑭											
⑮											
⑯											
⑰											
⑱											

DOOR SCHEDULE
NO SCALE



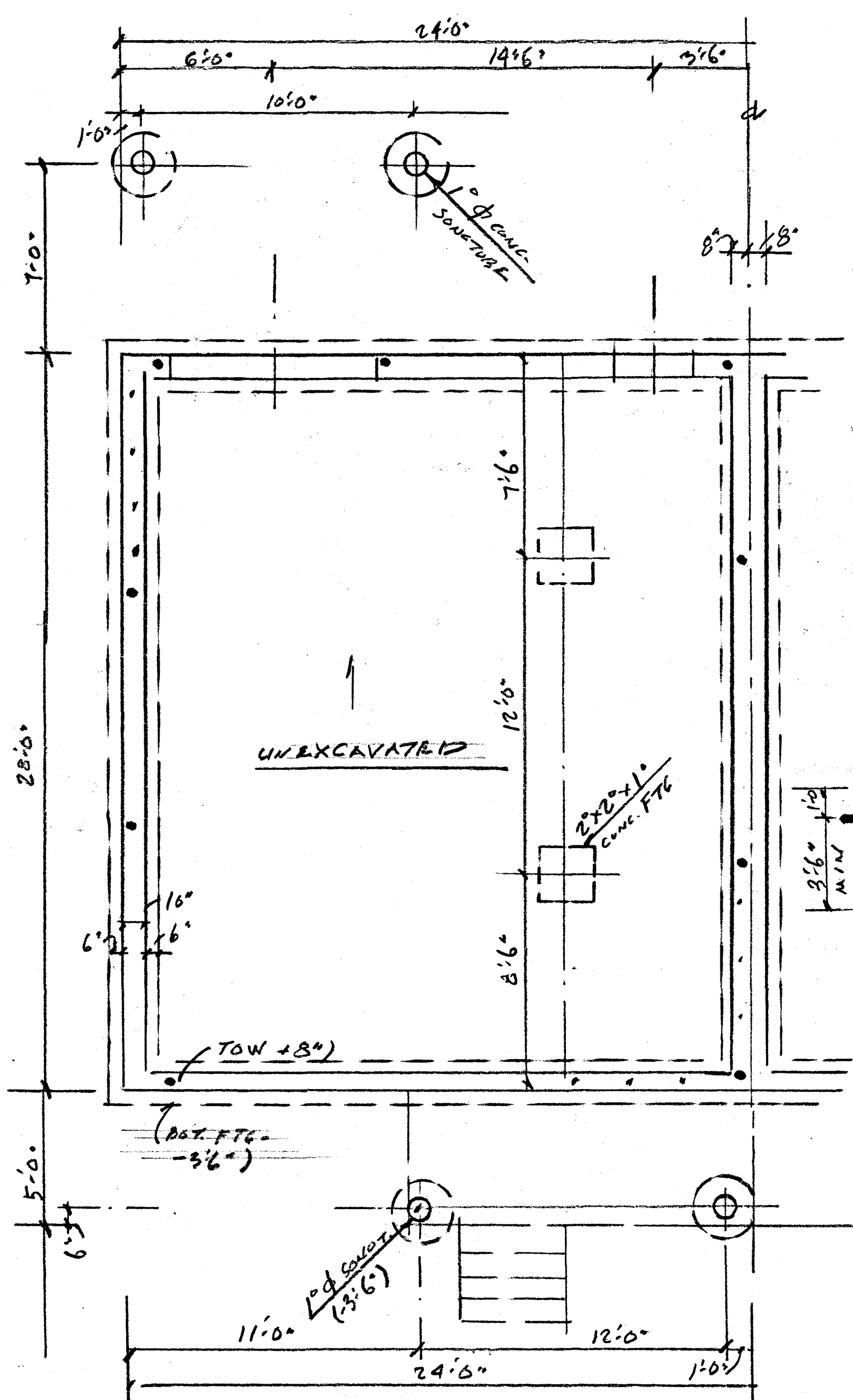
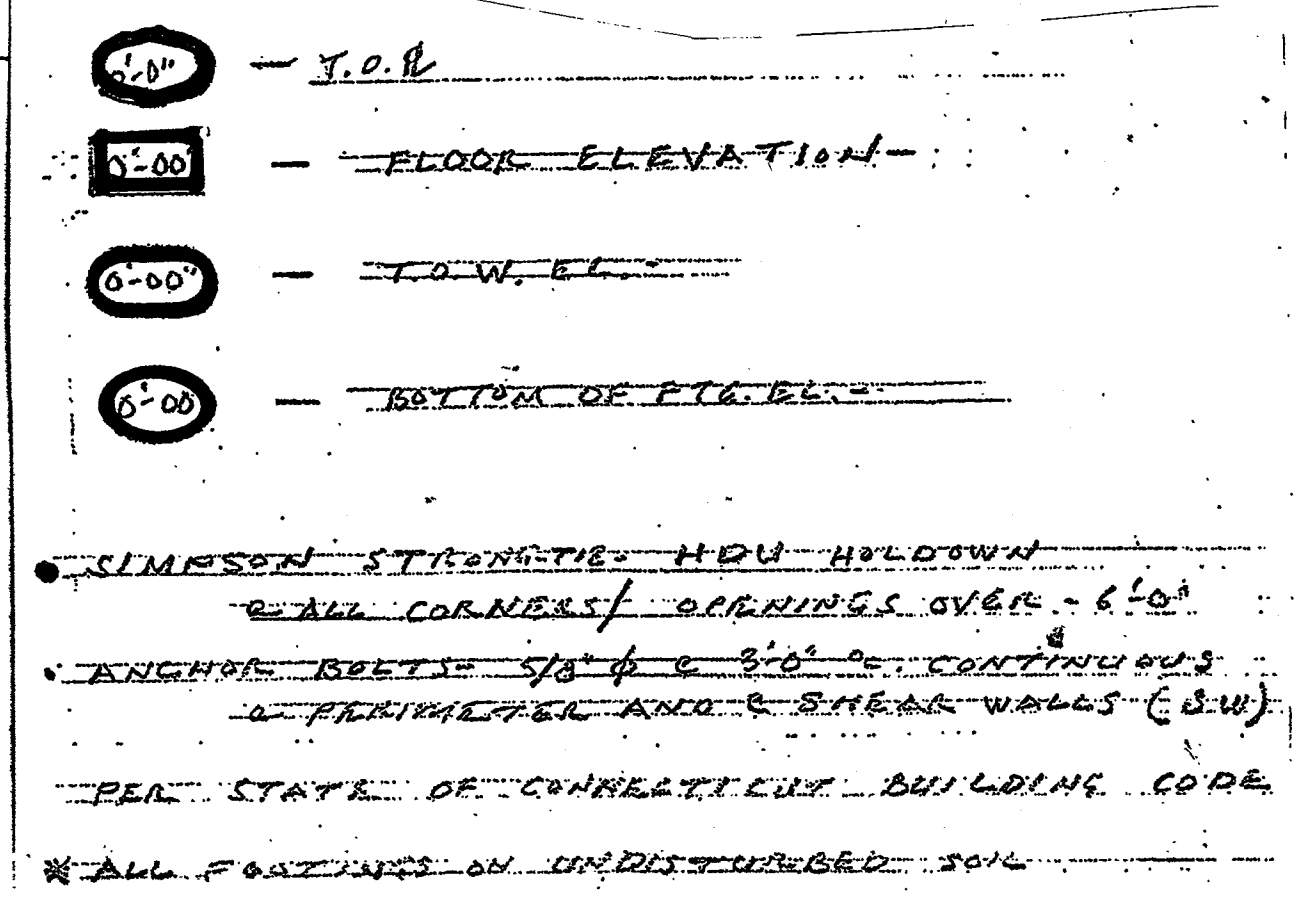
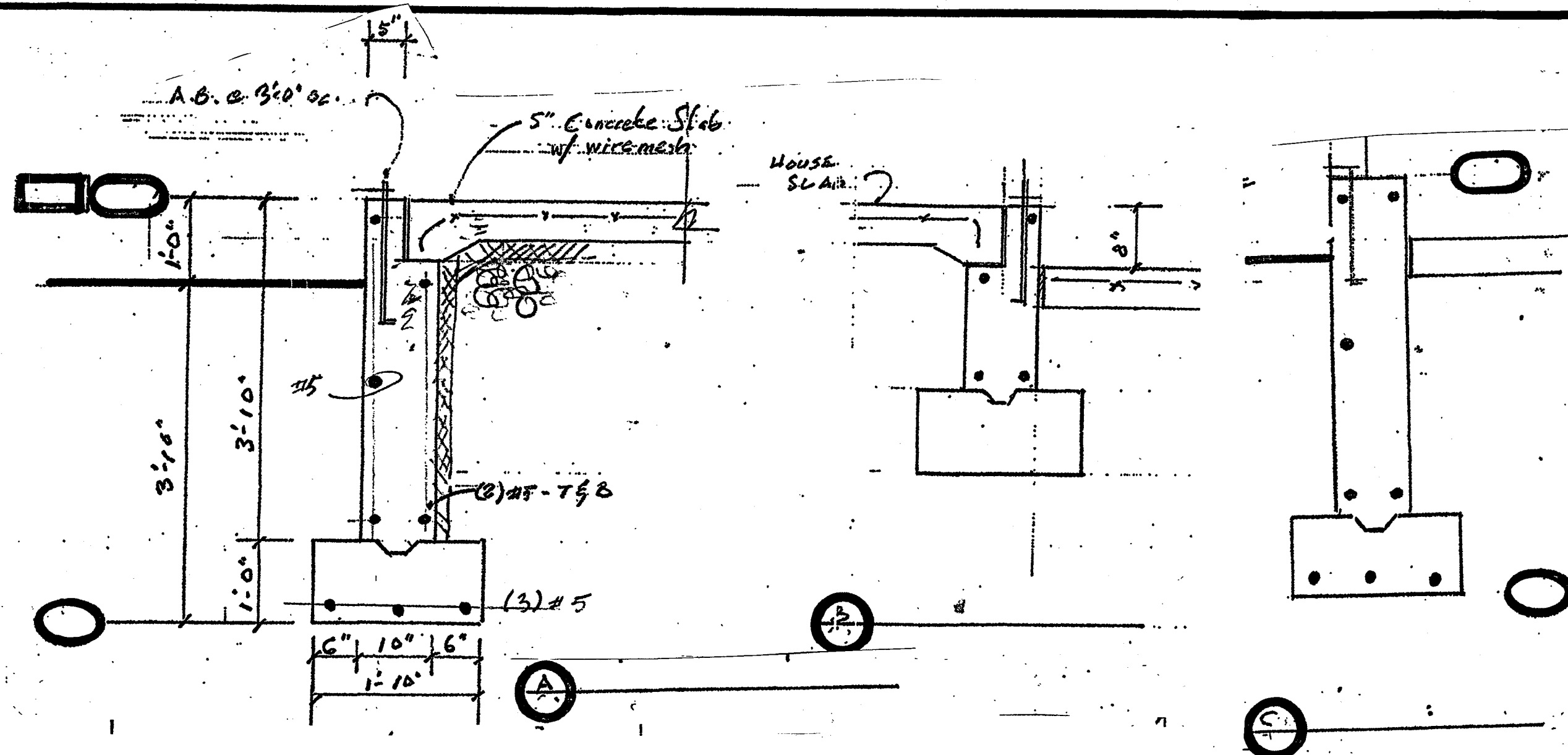
3 DOOR TYPES
SCALE: 1/4" = 1'-0"



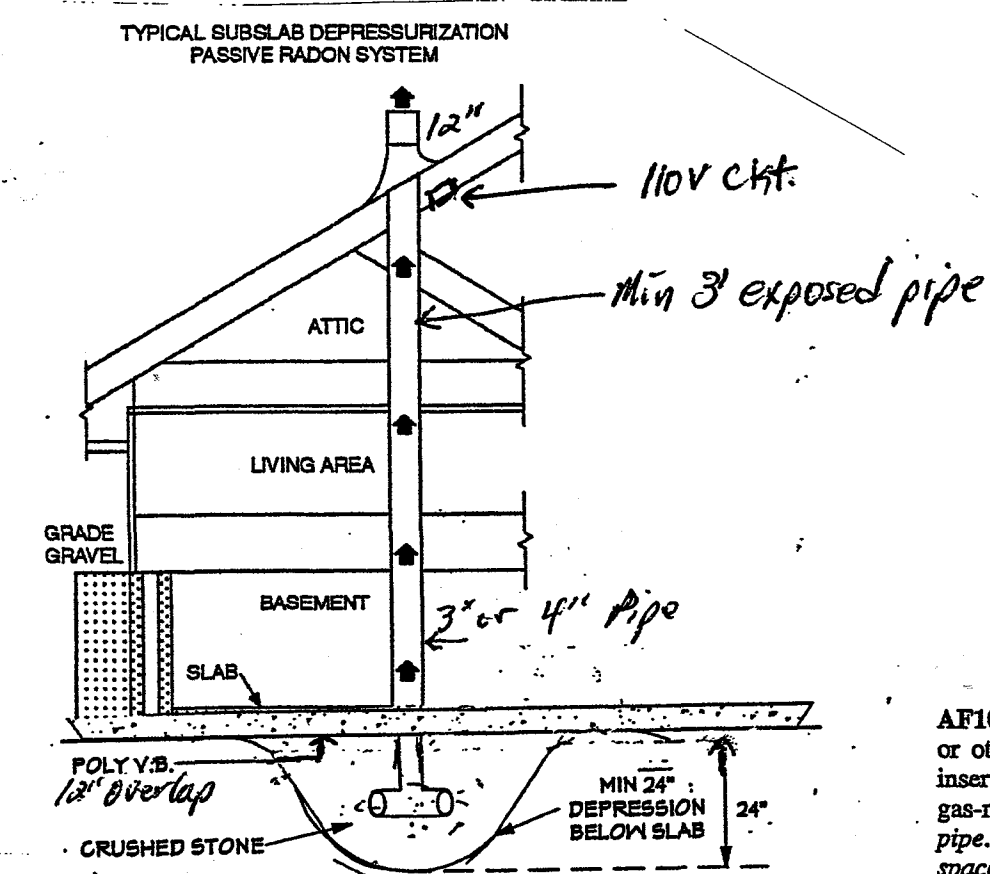
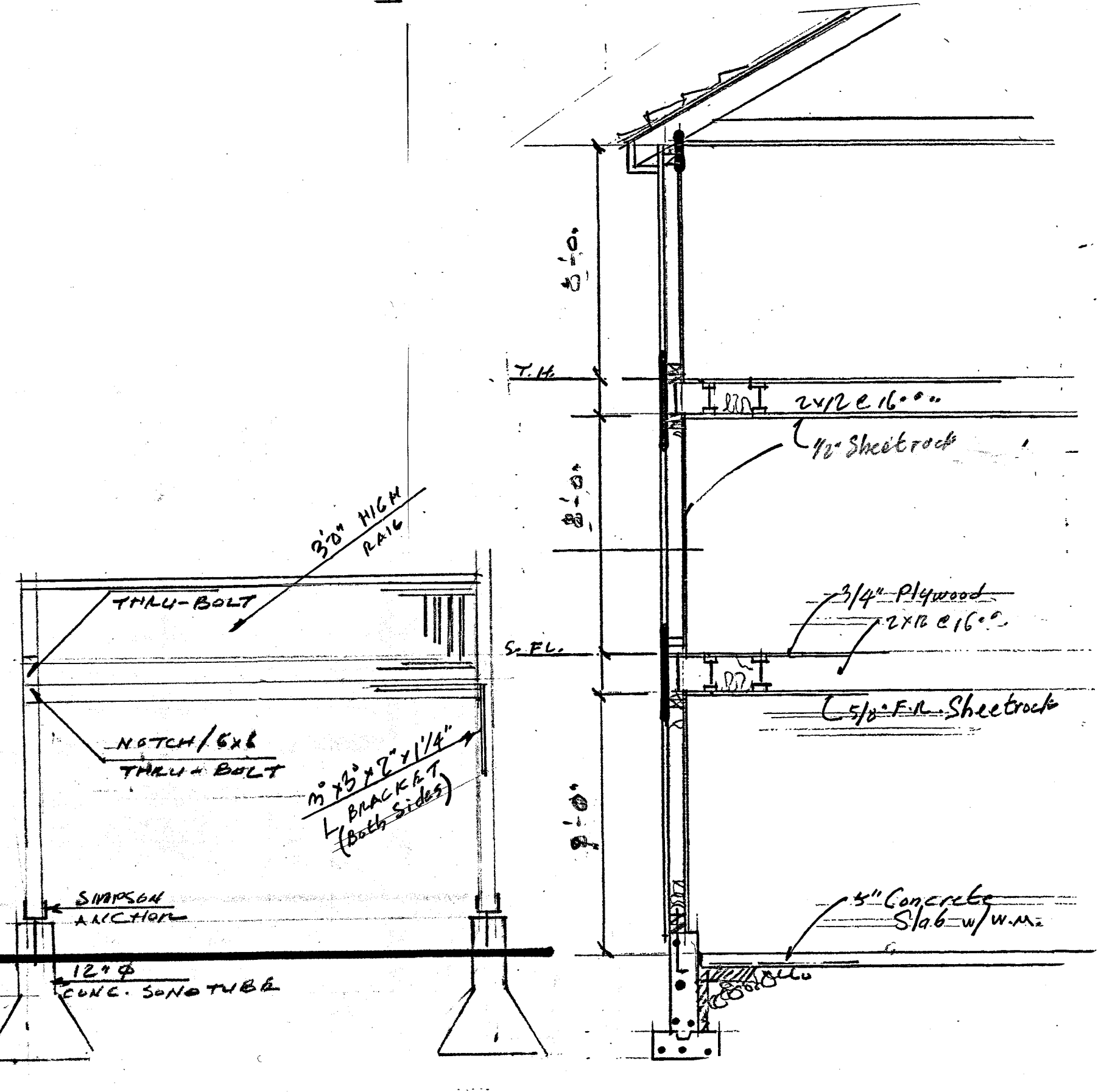
ATTIC FRAMING
THIRD FLOOR PLAN
SCALE: 1/4" = 1'-0"

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PROPOSED DUPLEX
106 MAIN STREET
EAST HAMPTON, CONN.
DATE: 8/1/20



FOUNDATION PLAN
scale: 1/4" = 1'-0"



AF103.61 "T" fitting and vent pipe. Before a slab is cast or other floor system is installed, a "T" fitting shall be inserted below the slab or other floor system and the soil-gas-retarder. The "T" fitting shall be connected to a vent pipe. The vent pipe shall extend through the conditioned space of the dwelling and terminate not less than 12 inches (305 mm) above the roof in a location not less than 10 feet (3048 mm) away from any window or other opening into the conditioned spaces of the building that is less than 2 feet (610 mm) below the exhaust point.
The vent pipe shall be the same diameter throughout its length and shall be supported in accordance with Section F2605.

ALL WORK COMPLETED SHALL MEET THE REQUIRED STANDARDS SET FORTH IN THE CODES LISTED BELOW.

- 2018 State of Connecticut Building Code
- 2018 State Fire Code
- 2015 International Building Code
- 2015 International Residential Building Code
- 2015 International Plumbing Code
- Mechanical Code
- Energy Conservation Code
- 2017 National Electrical Code (NFPA 70)

floor load 40 psf
wind speed 110 mph
seismic design category - B
single-family residence

type of construction VB unprotected wood framed

ceiling insulation r-49
wall insulation r-22
floor insulation r-38
radon preparation

DESIGN BASIS

- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2008 INTERNATIONAL BUILDING CODE AND THE 2008 CONNECTICUT SUPPLEMENT.
- ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-02) AND "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315 - LATEST EDITION).
- ALL WOOD FRAMING SHALL CONFORM TO "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" WITH 2001 SUPPLEMENT (NDS-01) AS RECOMMENDED BY THE AMERICAN FOREST & PAPER ASSOCIATION.
- "SPECIFICATION FOR WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT" (LATEST EDITION) BY THE WIRE REINFORCEMENT INSTITUTE, INC.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS: 3500 PSI.
PRIOR TO PLACING CONCRETE, A MIX DESIGN SHALL BE SUBMITTED FOR REVIEW.
- ALL BAR REINFORCING FOR CONCRETE AND MASONRY TO CONFORM TO ASTM A 615 GRADE 60 (DEFORMED).

FOUNDATION NOTES

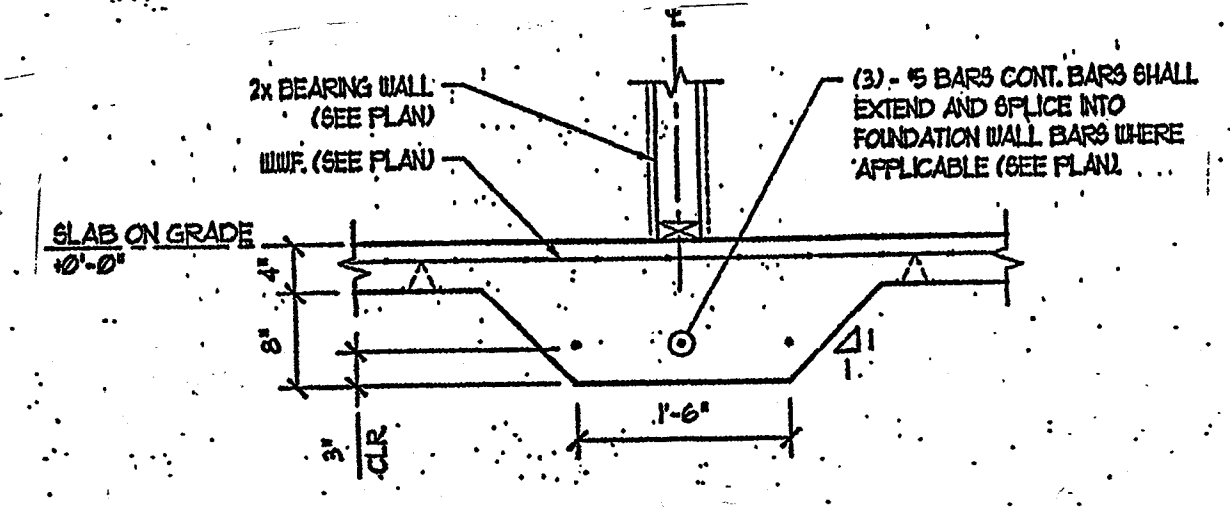
- ALL FOOTINGS TO BEAR ON NATURAL UNDISTURBED / COMPACTED STRUCTURAL FILL / ROCK HAVING MINIMUM BEARING CAPACITY AS INDICATED IN DESIGN BASIS.
- BOTTOMS OF ALL EXTERIOR FOOTINGS TO BE MINIMUM OF 8'-6" BELOW FINISHED GRADE UNLESS OTHERWISE NOTED.
- MAXIMUM SLOPE FOR BOTTOM OF FOOTINGS (OR BETWEEN BOTTOMS OF ADJACENT FOOTINGS) TO BE 1 VERTICAL TO 2 HORIZONTAL.
- ALL SOIL SURROUNDINGS AND BENEATH FOOTINGS SHALL BE PROTECTED FROM FROST DURING THE COURSE OF CONSTRUCTION.

CONCRETE NOTES

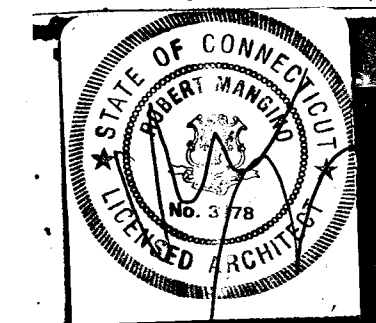
- UNLESS OTHERWISE SHOWN, LOCATE REINFORCING BARS WITH FOLLOWING CLEAR DIMENSION TO FACE OF CONCRETE:
 - A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3" CLEAR
 - B. EXTERIOR EXPOSED OR WEATHER: 2" CLEAR
 - C. SLABS: 1/2" CLEAR FROM TOP
- CONCRETE ACCESSORIES MUST BE ADEQUATE TO MAINTAIN REINFORCING ACCURATELY IN PLACE AND BE NON-CORROSIVE, NON-STAINING TYPE.
- LAP ALL BAR REINFORCING IN CONCRETE ELEMENTS 48 DIAMETERS, MINIMUM (UNLESS OTHERWISE NOTED).

WOOD NOTES

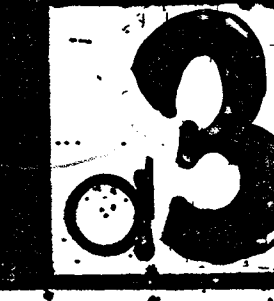
- FASTEN ALL MULTI-PLY SAWN LUMBER BEAMS TOGETHER WITH TWO ROWS OF 16d NAILS SPACED AT 12" o.c. UNLESS OTHERWISE NOTED (ONE ROW TOP, ONE ROW BOTTOM). FASTEN ALL MULTI-PLY LAMINATED VENEER LUMBER BEAMS TOGETHER WITH TWO ROWS OF 1/2" DIAMETER THRU-BOLTS SPACED AT 16" o.c. UNLESS OTHERWISE NOTED (ONE ROW 2" FROM TOP, ONE ROW 2" FROM BOTTOM).
- CROSS BRIDGERS OR SOLID BLOCKING IS TO BE PROVIDED BETWEEN ALL FLOOR JOISTS, ATTIC JOISTS, AND ROOF RAFTERS AT THE FOLLOWING FREQUENCY:
 - 0-8' SPAN: NONE REQUIRED
 - 8-16' SPAN: 1 ROW AT MIDSPAN
 - 16-24' SPAN: 2 ROWS AT 1/3 POINTS
- BRIDGING SHALL CONSIST OF NOT LESS THAN 1"x8" LUMBER, DOUBLE NAILED AT EACH END, OR OF EQUIVALENT METAL BRIDGING OF EQUAL RIGIDITY. METAL BRIDGING SHALL BE INSTALLED WITHOUT GAPS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. SOLID BLOCKING SHALL BE 2" THICK AND SHALL BE THE SAME NOMINAL DEPTH AS THE FRAMING MEMBERS; SOLID BLOCKING SHALL BE DOUBLE NAILED AT EACH END.
- ALL LAMINATED VENEER LUMBER SHALL BE 1.9E MICROLAM LVL AS MANUFACTURED BY TRUS JOIST MACMILLAN OR APPROVED EQUAL.
- ALL DIMENSION LUMBER (2" TO 4" THICK, 2" AND WIDER) SHALL BE NO. 2 DOUGLAS FIR-LARCH OR BETTER UNLESS OTHERWISE NOTED. ALL TIMBERS (8" X 8" AND LARGER) SHALL BE NO. 1 DOUGLAS FIR-LARCH OR BETTER UNLESS OTHERWISE NOTED.
- WOOD CONNECTORS BY SIMPSON STRONG-TIE OR APPROVED EQUAL CONTRACTOR TO ALLOW ADEQUATE LEAD TIME WHEN ORDERING HANGERS.
- ALL JOIST HANGERS AND RELATED WOOD CONNECTORS SHALL BE GALVANIZED, UNO. ALL CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ALL STUD WALLS TO BE FRAMED WITH 2" X 6" STUDS AT 12" o.c. UNLESS OTHERWISE NOTED.
- UNDER CONCENTRATED LOADS BEARING ON STUD WALLS PROVIDE 8-2"x6", MINIMUM, BUILT-UP STUD, SPIKED TOGETHER BUILT INTO WALL.
- STUD BEARING WALLS AND ALL EXTERIOR STUD WALLS SHALL BE CAPPED WITH DOUBLE TOP PLATES INSTALLED TO PROVIDE OVERLAPPING CORNERS AND WALL INTERSECTIONS. TOP PLATE JOINTS SHALL BE OFFSET NOT LESS THAN 48" AND SHALL BE LOCATED OVER STUDS.
- WALL SILL PLATES SHALL BE ANCHORED TO FOUNDATION WALLS WITH 3/4" DIAMETER ANCHOR BOLTS. BOLTS SHALL BE EMBEDDED A MINIMUM OF 8" INTO CONCRETE. THERE SHALL BE A MINIMUM OF TWO ANCHOR BOLTS PER SECTION OF PLATE. ANCHOR BOLTS SHALL BE PLACED 12" FROM THE END OF EACH SECTION OF PLATE WITH INTERMEDIATE BOLTS SPACED A MAXIMUM OF 4'-0" o.c.
- WHERE POSTS ARE SUPPORTED BY WOOD BEAMS WHICH RUN PARALLEL TO THE FLOOR JOISTS, PROVIDE SOLID BLOCKING BETWEEN THE BEAMS AND THE JOISTS AT THE POST LOCATIONS. EXTEND THE BLOCKING TWO JOISTS EACH SIDE OF THE BEAM.
- PLYWOOD ROOF SHEATHING IS TO RUN CONTINUOUS BELOW ALL BUILT-UP DORMERS AND VALLEY JACKS. PROVIDE OPENINGS IN SHEATHING AS REQUIRED FOR VENTILATION.
- ALL WOOD EXPOSED TO WEATHER AND ALL SILL PLATES BEARING ON CONCRETE OR MASONRY MUST BE PRESERVATIVE TREATED LUMBER.
- ALL WOOD BEAMS AND COLUMNS BEARING ON CONCRETE OR MASONRY MUST BE CONNECTED WITH AN ABA SERIES BASE BY SIMPSON EXCEPT P.T. SILL PLATES. WOOD IS NEVER TO BE IN DIRECT CONTACT WITH CONCRETE OR MASONRY, SEE DETAIL FOR P.T. POSTS.

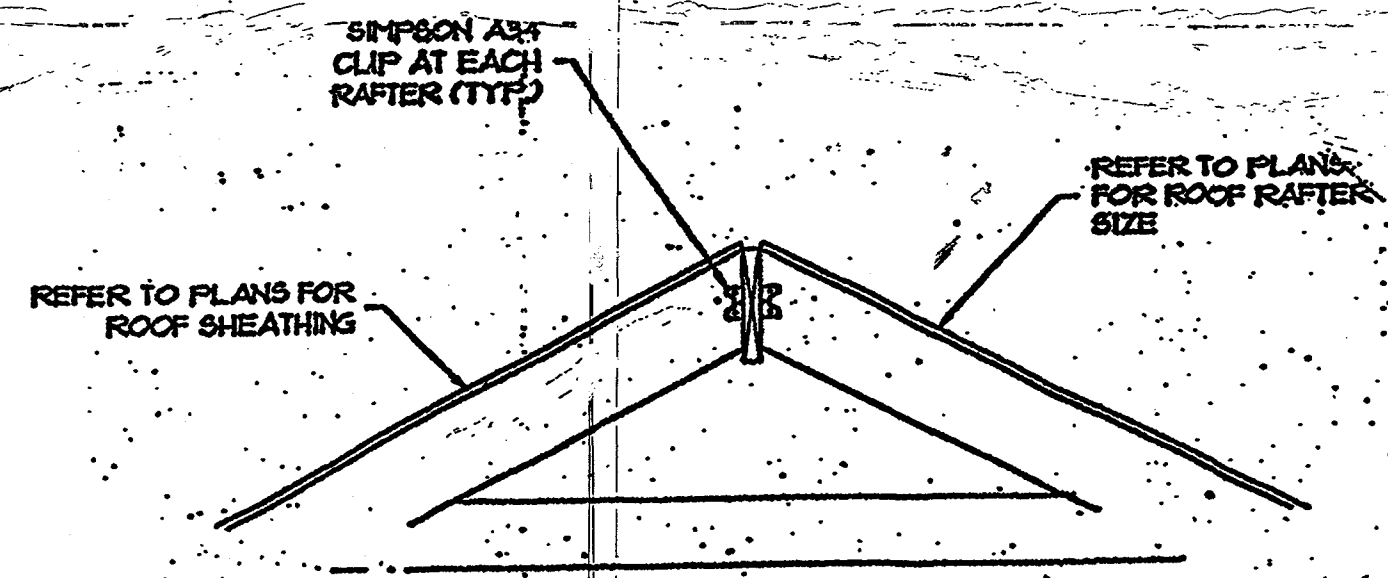


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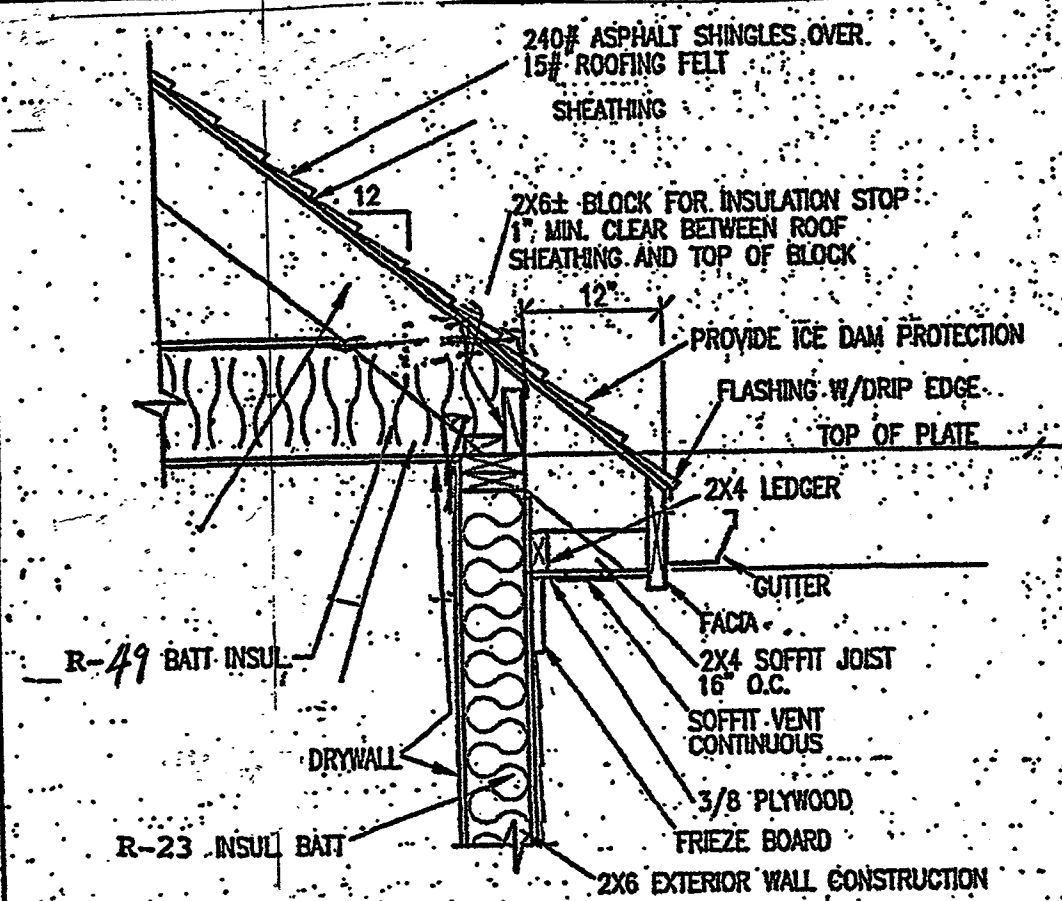
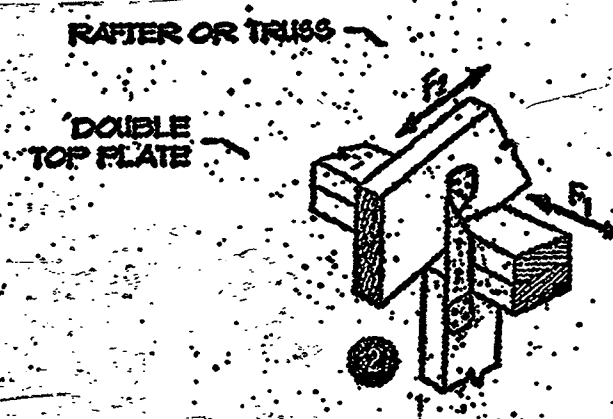
PROPOSED DUPLEX
106 MAIN STREET
EAST HAMPTON, CONN.
DATE: 8/1/20



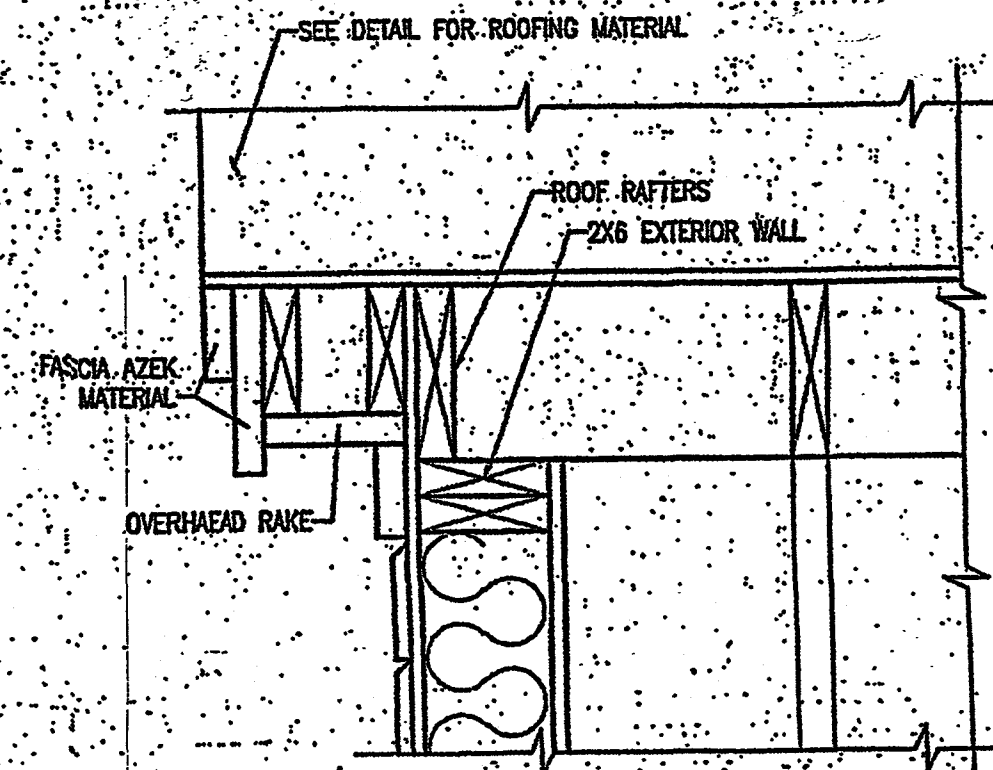


TYPICAL RIDGE CONNECTION DETAIL
SCALE: 3/4" = 1'-0"

SIMPSON H2A HURRICANE CLIP
(EAVE CONNECTIONS)



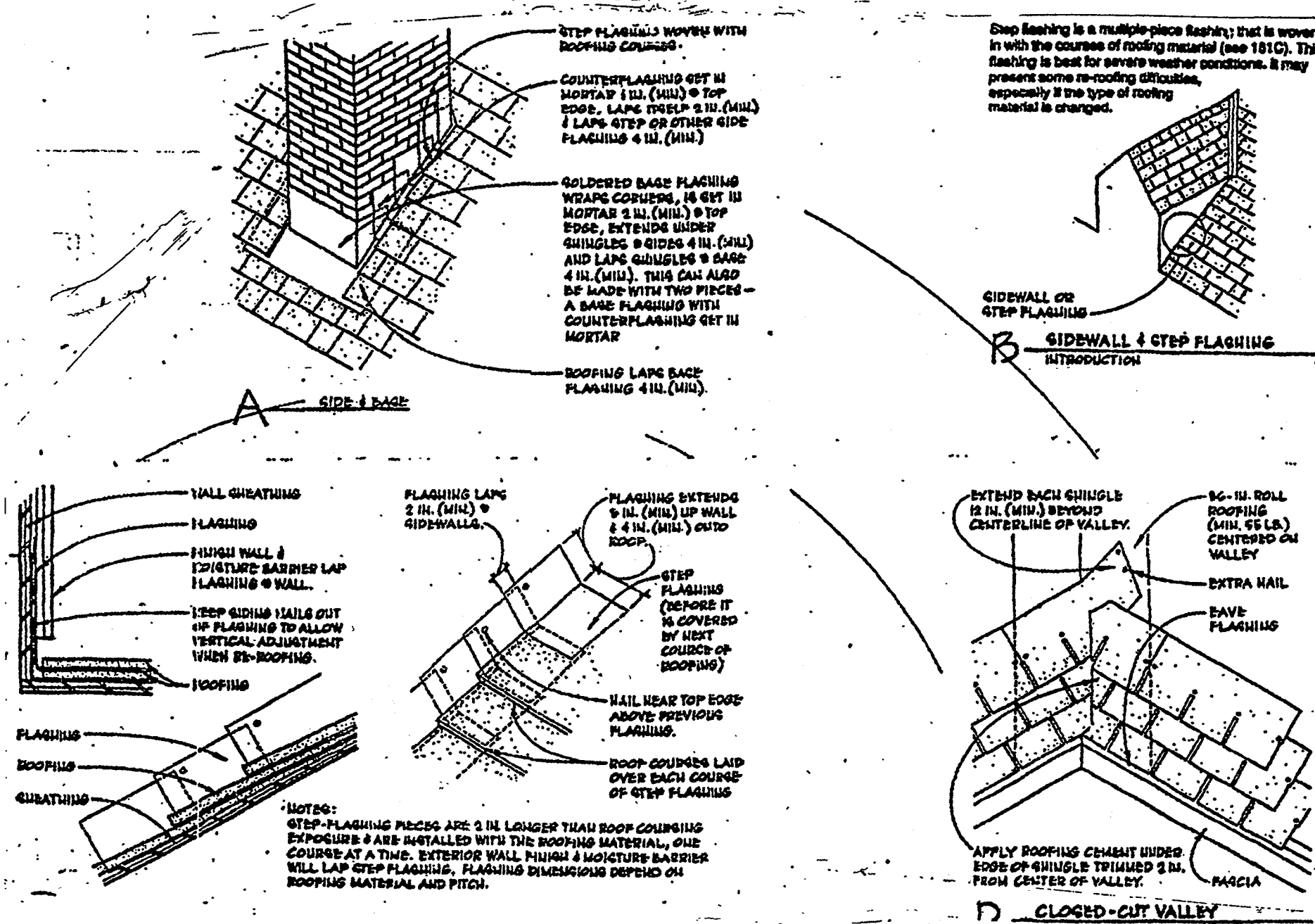
TYPICAL WALL SECTION



TYPICAL ROOF RAKE DETAIL

Plan Key Notes:

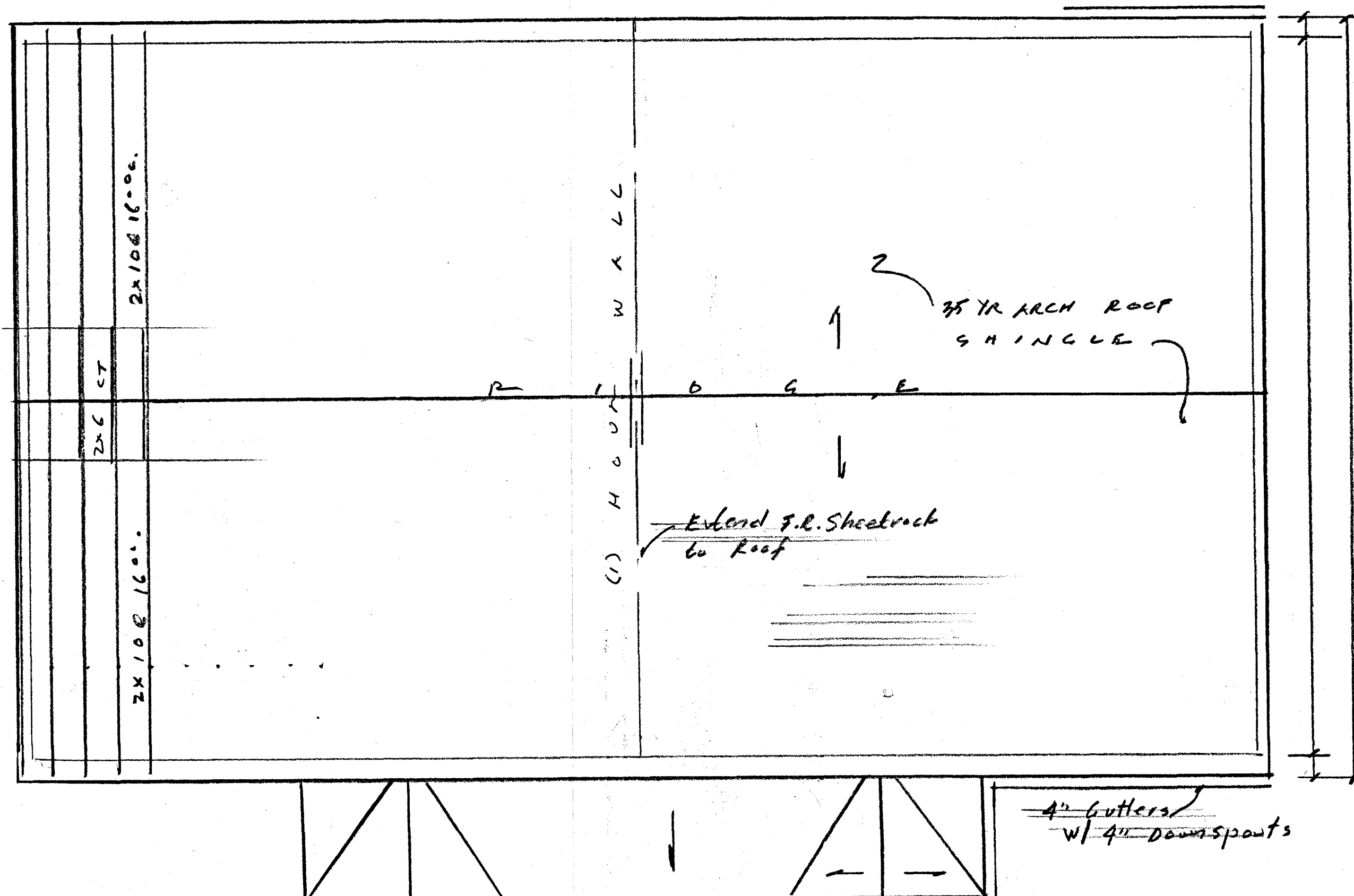
1. 3/8" architectural asphalt shingles. Color to be determined by owner. Typ. unless noted otherwise.
2. Ice and water shield to be applied as follows:
Eaves - 36" coverage
Rakes - 18" coverage
Valleys - 36" coverage
Sidewalls - 18"/18"
3. Continuous ridge vent.
4. Alumn. gutters and downspouts.



2 Valley Flashing / Cut Detail
Scale: N.T.S.

General Notes:

1. All roof penetrations to be coordinated with roofing subcontractor.
2. Full ice & water shield coverage on porch roofs.



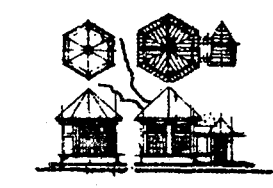
ROOF FRAMING

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

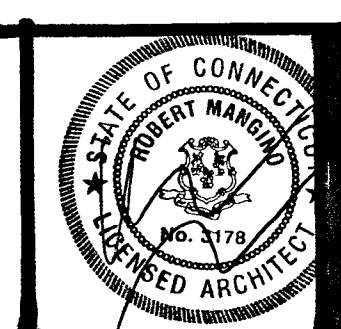
SIMPSON ANCHORS @ ALL CONNECTIONS

ROOF PLAN

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

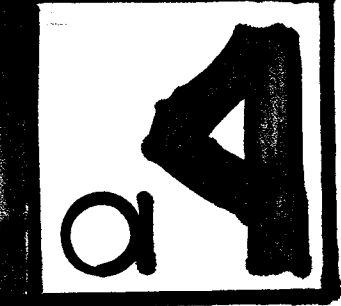


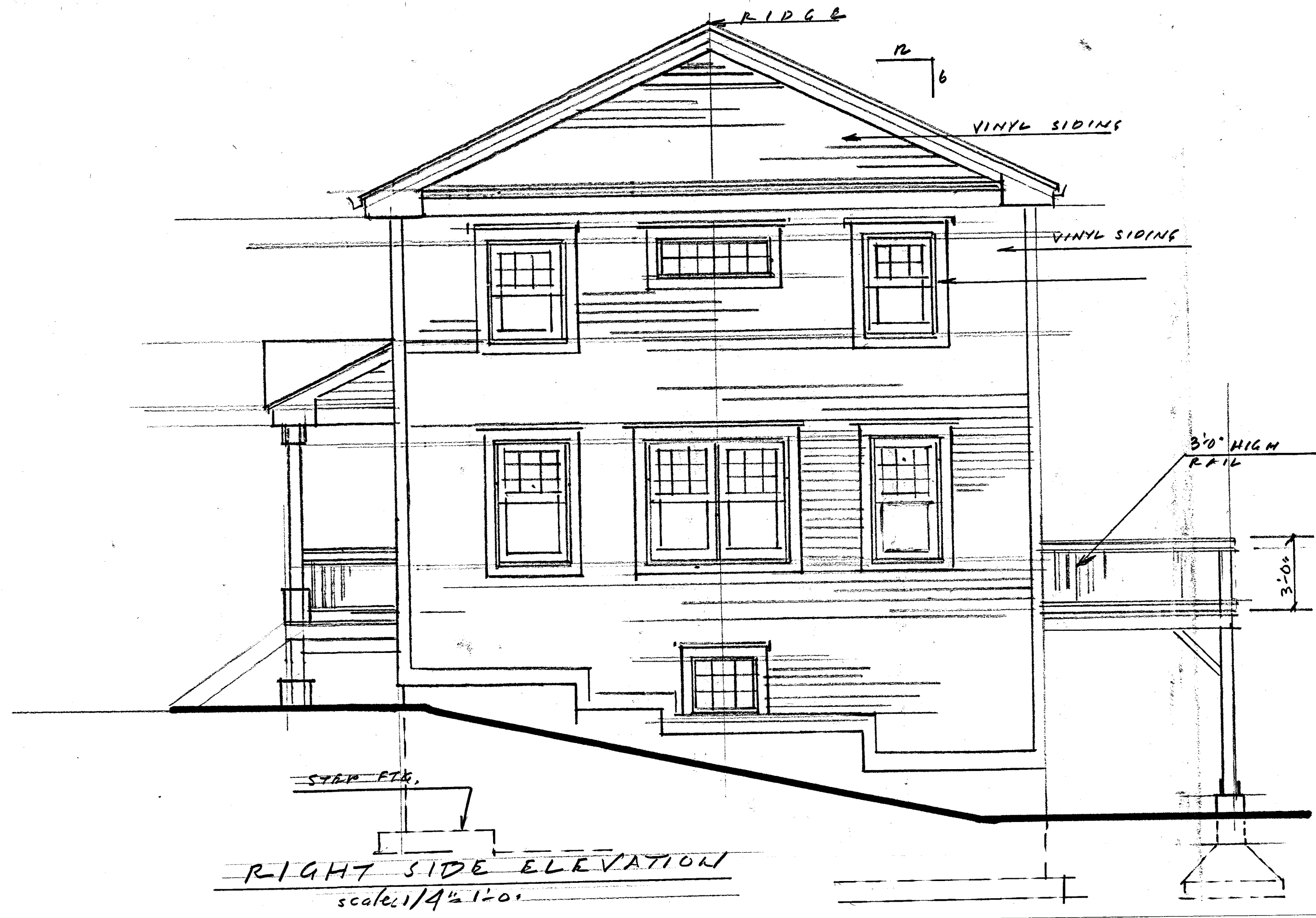
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106 MAIN STREET
EAST HAMPTON, CONN.

DATE: 8/1/20





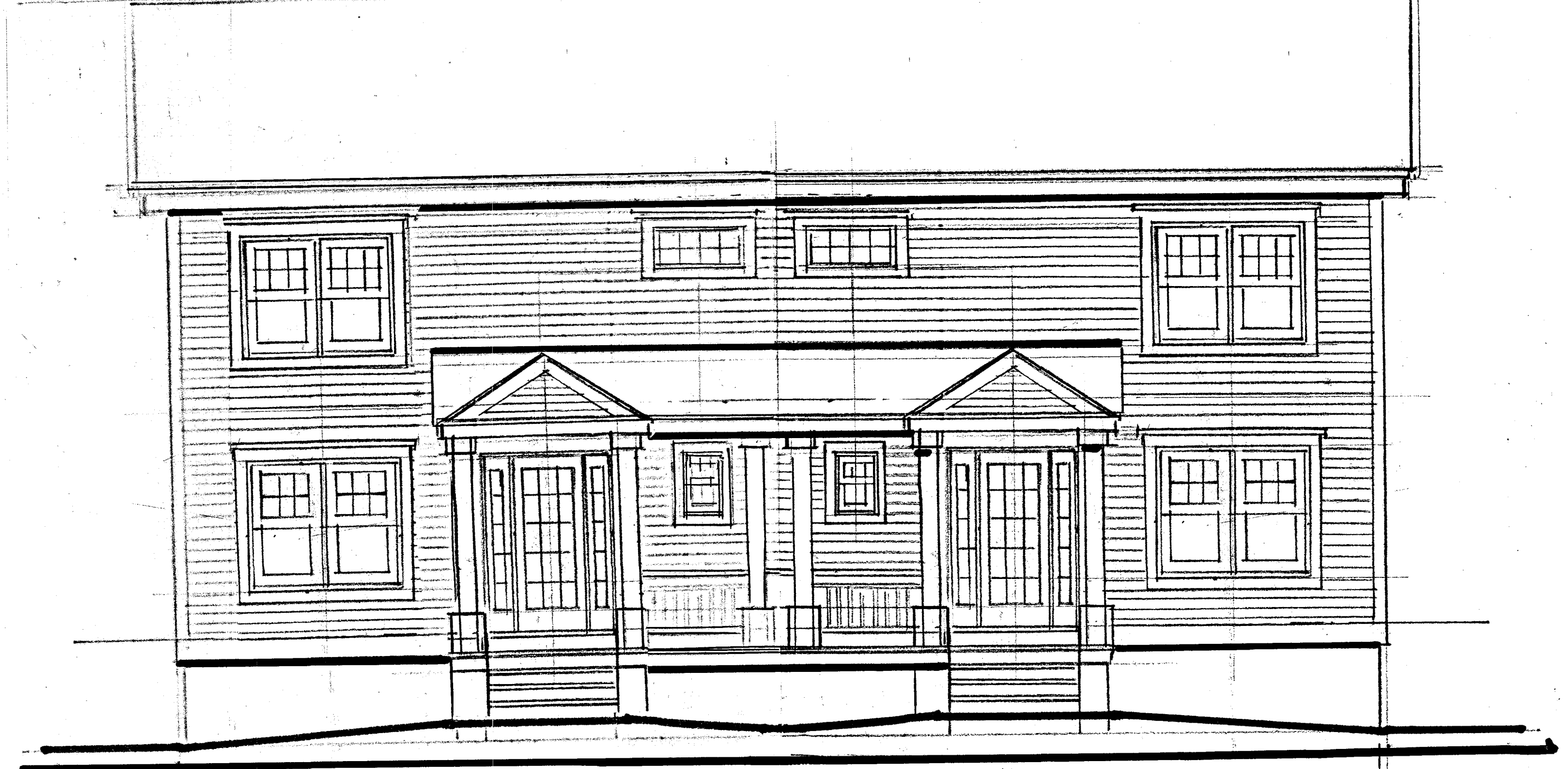
RIGHT SIDE ELEVATION
scale: 1/4" = 1'-0"



REAR ELEVATION
scale: 1/4" = 1'-0"

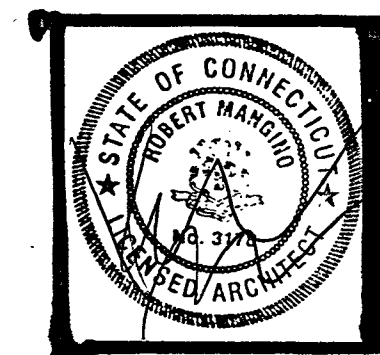


LEFT SIDE ELEVATION
scale: 1/4" = 1'-0"



FRONT ELEVATION
scale: 1/4" = 1'-0"

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PROPOSED DUPLEX
106 MAIN STREET
EAST HAMPTON, CT 06424
DATE: 2/1/20

5
a

Electrical Specifications

SCOPE OF WORK

1. The Electrical Contractor shall be responsible for all work required for a complete, fully operable installation for all work required for a fully operable installation. All work to be done in accordance with the latest issue of NEC, NFPA, and applicable local codes.
2. The drawings show the general layout and much of the detail, but they do not show every fitting, bend, etc. The Electrical Contractor shall provide any and all such materials to make a complete installation.
3. Do not scale drawings; actual field measurements and dimensions take precedence in all cases.
4. All work shall be done in accordance with the standard general conditions of the construction contract, AIA documents and project general conditions.
5. The Electrical Contractor is responsible for all clean-up and general coordination as required for the installation of the electrical items.
6. All the wire sizes are based on copper; aluminum wire is not to be used.
7. Personnel safety is of prime importance. No hazardous condition must be allowed. Every care must be taken to protect construction and other personnel. Clean-up is to be done on a daily basis.
8. All wiring methods are to be in accordance with the current issue of the National Electrical Code and applicable local codes.
9. Electrical Contractor shall secure all permits and pay for all required fees (as applied).
10. The Electrical Contractor shall warrant and guarantee all materials and workmanship for a period of one year from the date of final acceptance by Contractor in the event of a claim.
11. The Electrical Contractor shall provide proof of liability and property insurance to the owner. All deductibles shall be paid for by the Electrical Contractor in the event of a claim.
12. The Electrical Contractor shall provide Shop Drawings for approval for all lighting fixtures and major electrical items as noted and specified.
13. The Electrical Contractor to verify lighting fixture mounting requirements for various ceiling types and order the appropriate hardware.
14. The Electrical Contractor install all equipment in accordance with manufacturers instruction and or equipments for proper operation and maintenance.
15. The Electrical Contractor shall be responsible for testing of all phases of the work and to demonstrate to the owner that the equipment is in full operating order.
16. The term "provide" shall mean to furnish and install in complete working order.
17. Provide independent support of all fixtures, devices, equipment, etc. Do not support on ceiling structure.
18. The electrical contractor shall wire all mech. equipment, see Mech. DWGS for all electrical requirements.

"Carbon Monoxide Detectors" R315.1 (2009) IRC Amended (2013) Provide A/C - D/C Carbon monoxide detectors outside bedroom areas. Indicate location on drawing.

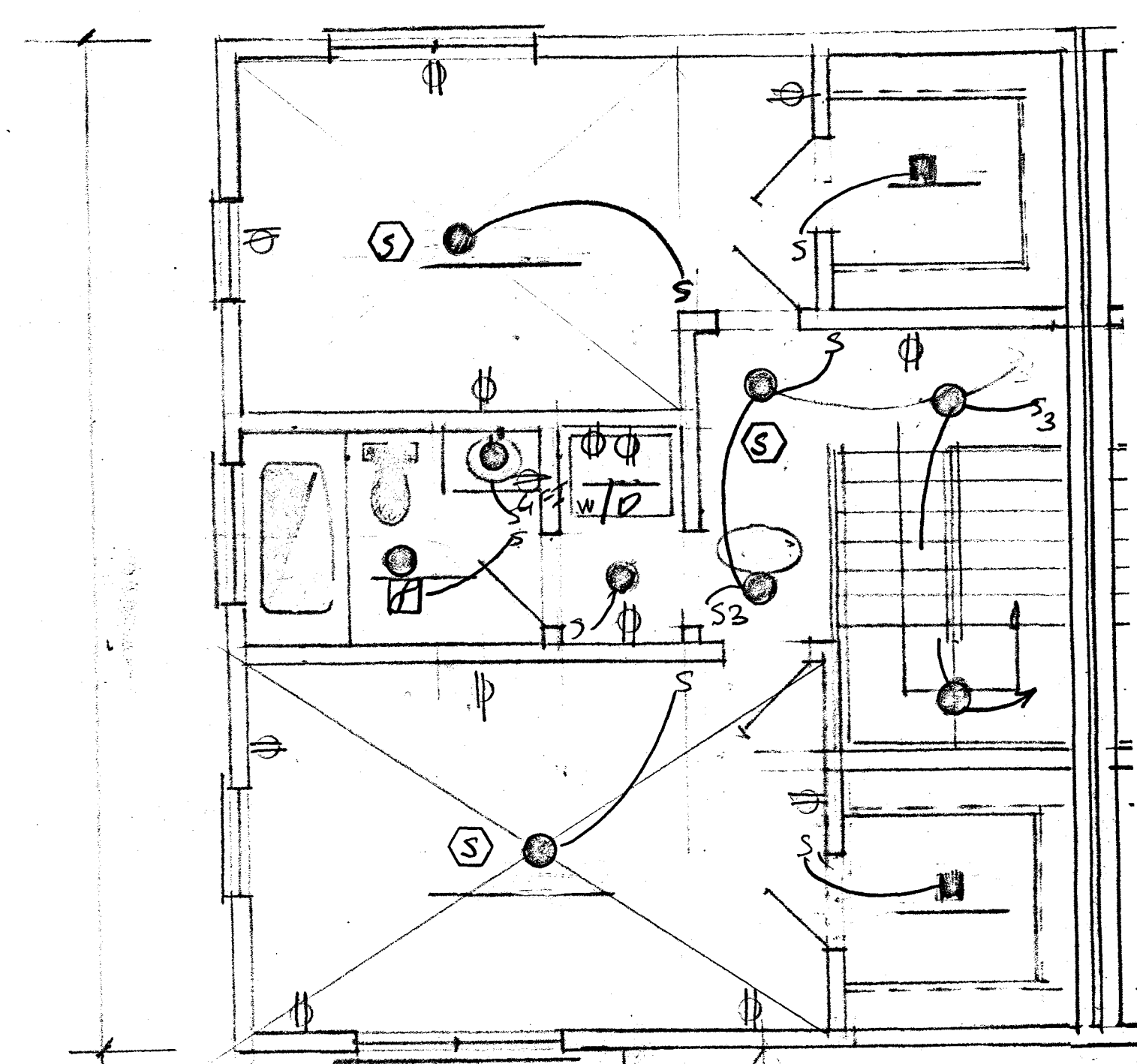
"Arc-Fault Protection" Follow Article 210.12 (B) (2011) NEC. All bedroom branch circuits to be protected with arc-fault circuit interrupters. Indicate on drawing.

"Tamper-resistant receptacles" Follow Section E4002.14 (2009) IRC. In areas specified in Section E3901.1, 125-volt 15- and 20-ampere receptacles shall be listed tamper-resistant receptacles. EXCEPTIONS: 1. Located more than 5.5-feet above the floor. 2. Part of a luminaire (light) or appliance. 3. A single receptacle for a single appliance or a duplex for two appliances, follow Section E3909.4..... Indicate on drawing.

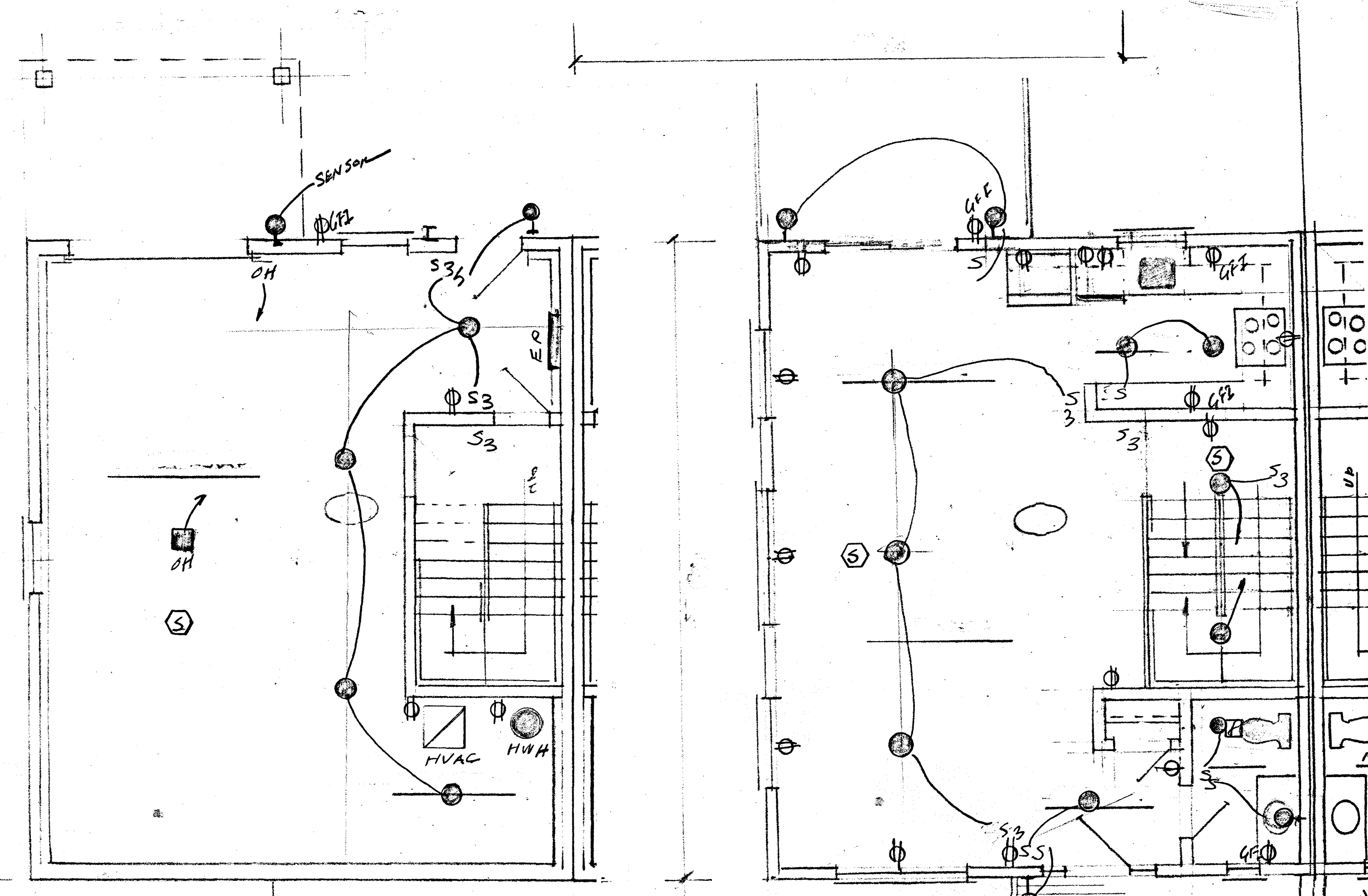
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"Concrete-Encased Electrode" 250.52 (2011) NEC (A) "Electrodes Permitted for Grounding". (3) Concrete-Encased Electrode. A concrete encased electrode shall consist of at least 20-feet of either (1) or (2).

- (1) One or more bare or zinc galvanized or other electrically coated steel reinforcing bars or rods of not less than (1/2)-inch in diameter, installed in one continuous 20-foot length, or if in multiple pieces connected together by the usual steel tie wires, exothermic welding, or other effective means to create a (20-foot) or greater length; or
- (2) Bare Copper Conductor not smaller than 4 AWG (Indicate on drawing)



THIRD FLOOR PLAN



FIRST FLOOR PLAN

SECOND FLOOR PLAN

Electrical Symbols	
⊖	Duplex outlet
⊖	GFI Duplex outlet
⊖	Duplex - FLOOR
⊖	Clothes Dryer receptacle
⊖	Range / Oven receptacle
⊖	Refrigerator receptacle
⊖	Quad outlet
⊖	One way switch
⊖	One way dimmer switch
⊖	Three way switch
⊖	Three way dimmer switch
⊖	Four way switch
⊖	Ceiling fan w/ light, dble. dimmer switch

Lighting Schedule			
⊙	Exterior wall mounted light	⊙	Drop tea-cup type light, clg. mounted
⊙	6" recessed light w/ baffle	⊙	Wall-mounted down facing light
⊙	8" recessed light w/ baffle	⊙	Fluorescent light-strip
⊙	Wall mounted vanity sconce	⊙	Ceiling fan w/ lights
⊙	Shower recessed light	⊙	Post Latern
⊙	Bathroom exhaust fan unit	⊙	Flouce-light w/ motion detector
⊙	Bathroom exhaust fan w/ heat & light		

⊙	Cable TV
⊙	Telephone
⊙	Cat 6 - Network Cable
⊙	Smoke Detector
⊙	Heat Detector
⊙	Carbon Monoxide Detector

FIXTURE ALLOWANCE

ELECTRICAL

Robert Mangino
Architect
P.O. Box 257
131 Talcott Road
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manginorobert@yahoo.com



PROPOSED DUPLEX
106 MAIN STREET
EAST HAMPTON, CONN.
DATE: 8/1/20



Plumbing Specifications

SCOPE

1. The work to be done under this Division of the specifications shall include the furnishing of all equipment, supplies, supervision, and all materials not specifically mentioned ready for use, all plumbing systems equipment and associated items.

2. SOIL, WASTE, VENT AND STORM WATER PIPING

When Cast Iron Piping is Used
 a. All soil, waste and storm water piping below grade shall be cast iron with no-hp fittings. Fittings on waste and soil lines shall be drainage pattern.
 When P.V.C. Piping is Used
 b. All soil, waste and storm water piping shall be PVC, Schedule 40
 c. Plastic pipe and fittings shall conform to commercial standards CS 272-65 (PVC) and ASTM D-2661.

d. Run all soil, waste and vent piping shown or required by code. Piping shown is a minimum and in accordance with state code.

e. Flash all vents through roof.

f. Cleanouts shall be installed at base of all stacks, at all changes of direction, and long lines at maximum 50 ft. intervals.

3. WATER SERVICE

a. The Plumbing Contractor shall connect to water service and run water as directed.

4.

5. UNDERGROUND WATER PIPING

Water Service
 a. Domestic - All underground water piping shall be copper. Sterilization shall comply with latest AWWA requirements.

6. INTERIOR WATER PIPING

When Copper Piping is Used
 a. All domestic water piping above ground shall be Type "L" copper tubing with seater type fittings, and all joints shall be made 95-5 solder.

When Poly Tubing is Used
 b. All domestic water piping above ground shall be high density polyethylene with stainless steel crimp rings ASTM F-876/F-877 and CSA B137.5

7. INTERIOR WATER VALVES

a. Install globe, cocks, etc., valves as shown all other to be ball type. All valves shall be high quality, equal to Jamesbury "Clince" or Apollo.

8. INSULATION

a. Insulate all hot, cold and horizontal storm water piping.

Insulation on fittings shall be covered

9. EXAMINATION OF SITE

a. The Contractor shall be assumed to have visited the premises and noted all pertinent facts and details including the conditions under which the work must be carried out. No allowance will be made for failure to have done so.

b. Each bidder shall thoroughly familiarize himself with the requirements and intentions of all drawings of all Divisions of the specifications so as to include all of the heating, ventilating and plumbing work intended.

10. INSURANCE

a. This contractor shall be fully insured, including Workmen's Compensation, Public Liability for injury and property damage. Proof of such insurance shall be submitted to the Owner before signing the contract to proceed with the work.

11. CODES

a. All work shall comply with the requirements of the National Board of Fire Underwriters, the National Code, the Building Department, Fire Department, local utilities and all local and state codes which apply.

12. PERMITS

a. This Contractor shall obtain and pay for all permits required for this work.

13. GUARANTEE

a. All equipment, materials and workmanship shall be guaranteed for a period of one year from date of acceptance, by Owners, of the entire installation.

PART ONE - GENERAL

1.1 DESCRIPTION:

1.1.1 Provide all labor and material to complete in place the plumbing items specified here.

1.2 QUALITY ASSURANCE:

1.2.1 QUALIFICATIONS OF MANUFACTURERS:

1.2.1.1 Products used in the work of this section shall be produced by manufacturers regularly engaged in manufacture of similar items and with a history of satisfactory production acceptable to the Architect.

1.2.2 QUALIFICATIONS OF INSTALLERS:

1.2.2.1 Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts, and who are completely familiar with the specified requirements and the methods needed for proper installation of the work of this section.

PART TWO - PRODUCTS

2.1 EQUIPMENT: See Plans.

2.2 OTHER MATERIALS:

2.2.1 All other materials, not specifically described but required for a complete and proper installation, shall be as selected by the contractor subject to the approval of the Architect.

PART THREE - EXECUTION

3.1 INSPECTION:

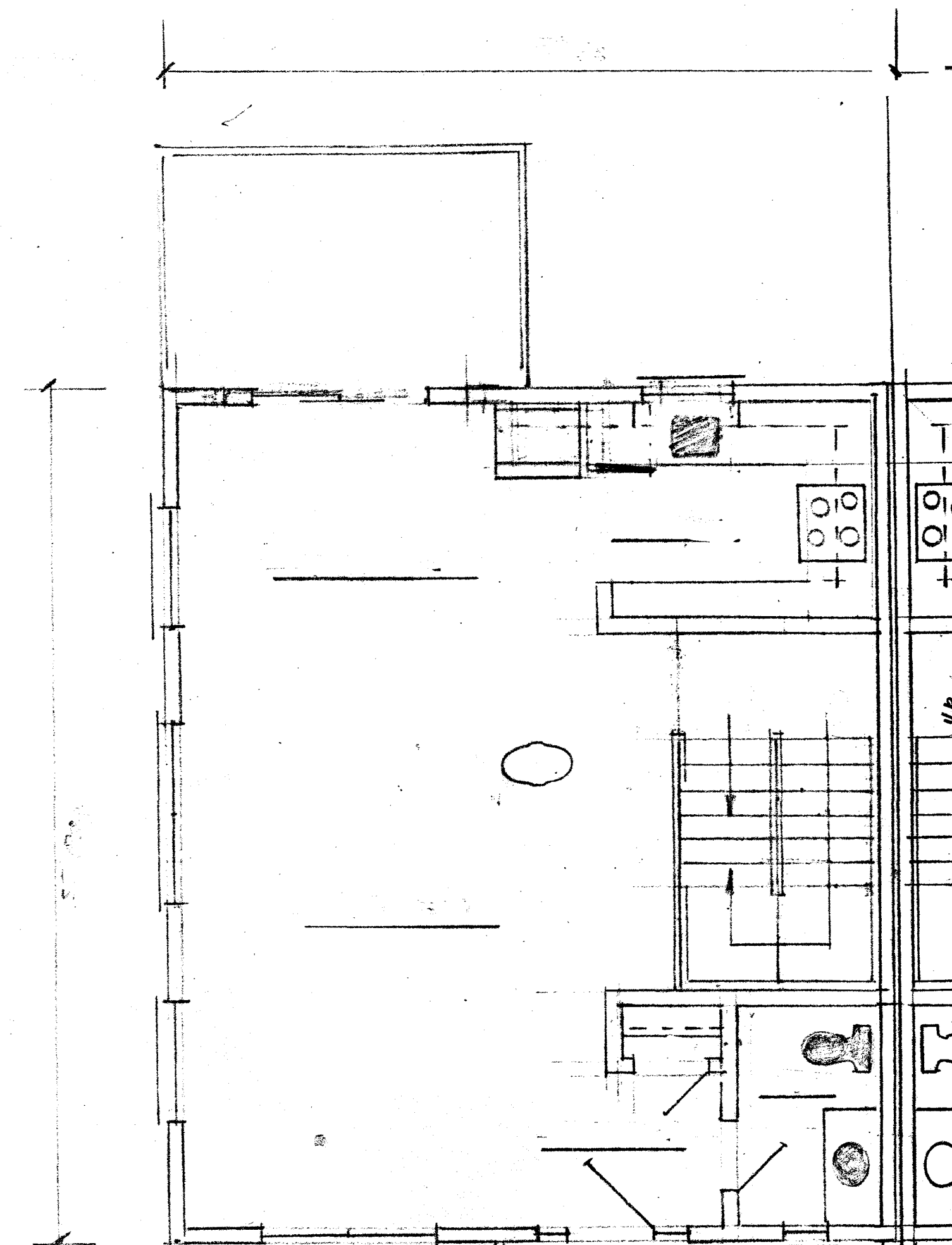
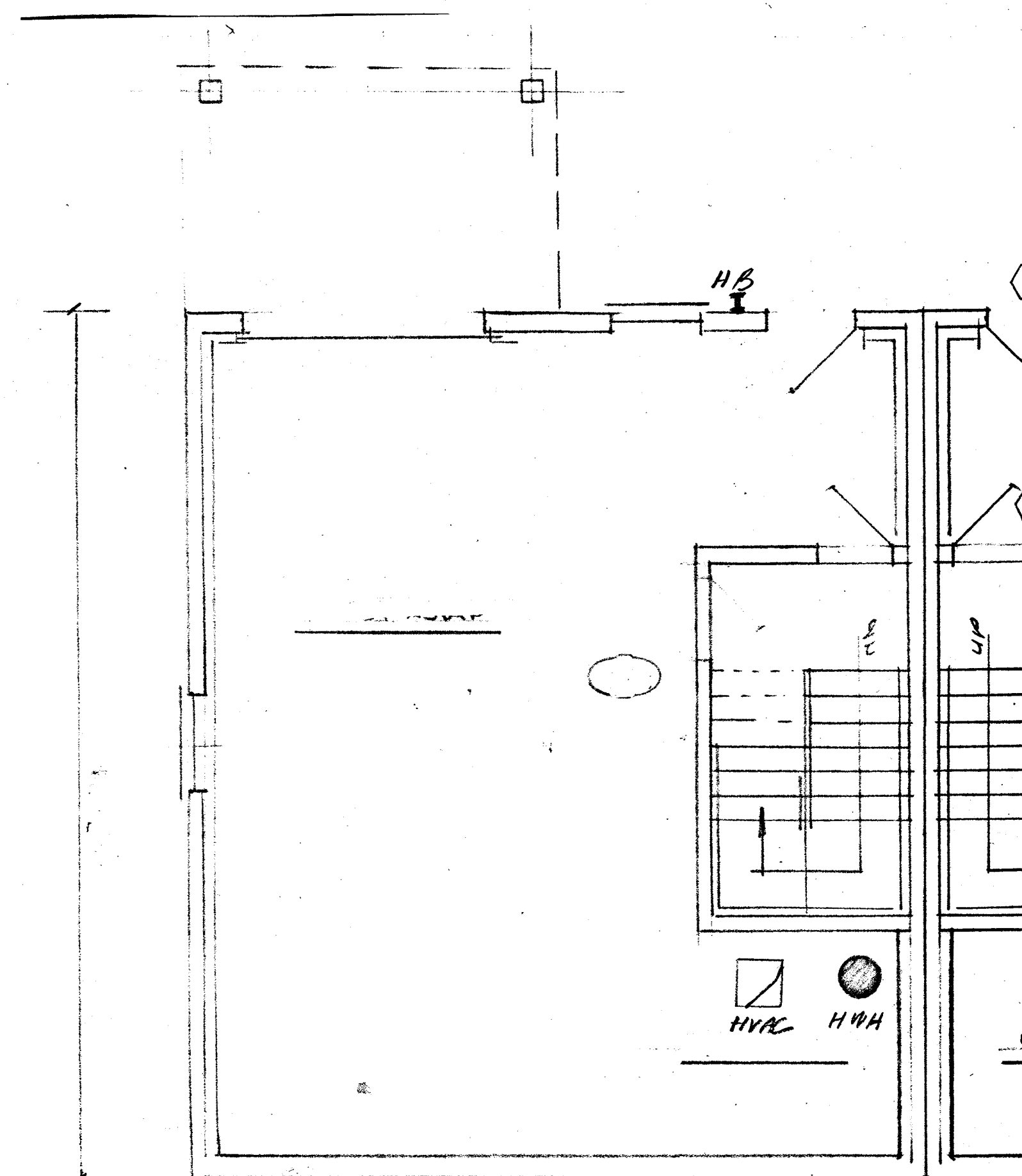
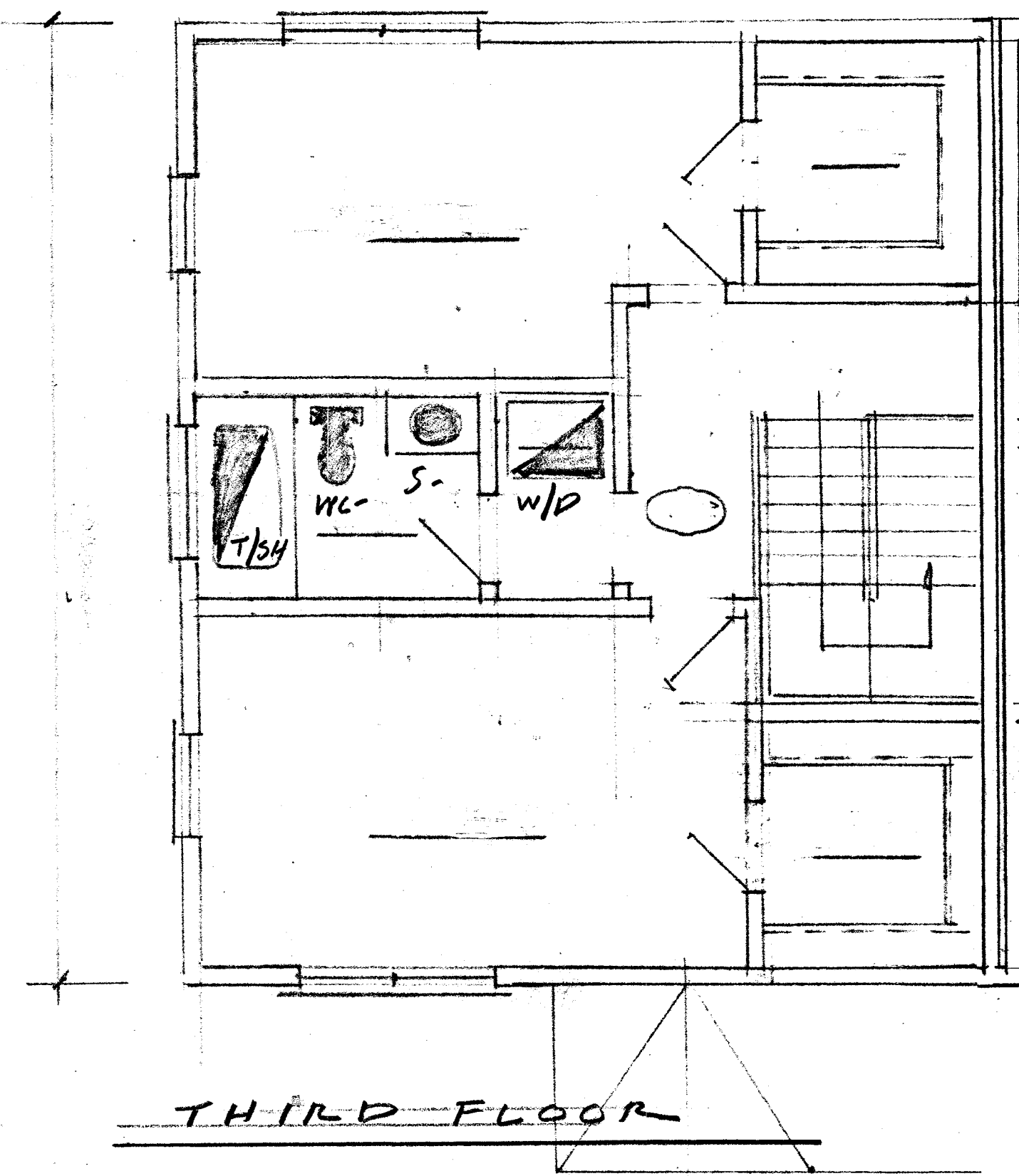
3.1.1 Examine the areas and conditions under which work of this section will be installed. Correct conditions detrimental to the timely and proper completion of the work. Do not proceed until unsatisfactory conditions have been corrected.

3.2 INSTALLATION:

3.2.1

3.2.2 Install the work of this section in strict accordance with the manufacturers' recommendations as approved by the architect. All work, and materials used and methods of installation shall meet all required Plumbing Codes.

END OF SECTION



HEATING, VENTILATING AND AIR CONDITIONING SPECIFICATION

1.01 Scope of Work - DESIGN BUILD

A. Provide all labor, materials and equipment required to produce a complete heating, ventilating, and air conditioning system as indicated to the drawings and herein specified, including but not limited to the following:

1. Gas Fired Furnaces, DX Cooling Coils, Condensing Units, Refrigerant Piping and Heating/Cooling Thermostats.
2. All supply, return, combustion air and exhaust duct work including hangers, insulation, registers and grilles.
3. Req. exhaust fans, ductwork, intake and discharge louvers.
4. Balancing and adjusting.
5. Testing all of the work.

1.02 INSURANCE

A. This Contractor shall be fully insured, including Workmen's Compensation, Public Liability for injury and property damage. Proof of such insurance shall be submitted to the Owner before signing the Contract to proceed with the work.

1.03 CODES

A. All work shall comply with the requirements of the Nation Board of Fire Underwrites, the National Electrical Code, the Building Department, Fire Department, local utilities and all local and state codes which apply.

1.04 PERMITS

A. The Contractor shall obtain and pay for all permits required for this work.

1.05 GUARANTEE

A. All equipment, materials, and workmanship shall be guaranteed for a period of one year from date of acceptance, by the Owner of the entire installation.

1.06 EXAMINATION OF SITE

A. The Contractor shall be assumed to have visited the premises and noted all pertinent facts and details, including the conditions under which the work must be carried out, and no allowance will be made for failure to have done so.

B. Each bidder shall thoroughly familiarize himself with the requirements and intent of all drawings of all Divisions of the Specifications so as to include all of the heating, ventilating, and plumbing work intended

1.07 AIR DISTRIBUTION

A. Furnish and install all ductwork for the heating ventilating, and air conditioning system as shown on drawings.

B. All duct work shall be constructed of gauges as called for in the "Duct Manual and Sheet Metal Construction for Ventilating Air-Conditioning Systems" and as recommended by the ASHRAE.

D. Provide duct turns in ducts at all changes of direction where space does not permit long radius elbows.

E. Furnish and install hangers, brackets, and supports for all sheet metal work. Nor wire, chains or perforated metal bands will be permitted in any part of the work.

12. "HVAC Equipment Location" Indicate on the drawings any exterior equipment pads or raised platforms that will support HVAC equipment. Condenser, or propane tanks, etc. Obtain the location approval from the Zoning Dept. for any exterior equipment pads etc.

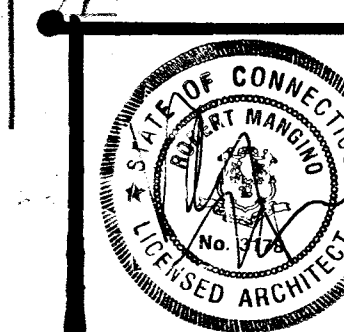
1.08 BALANCING

1.08 HVAC EQUIPMENT

Furnace with Heating-Cooling

17. "Duct Sealing" Follow Section N1103.2.2. Ducts air handlers, filter boxes and building cavities used as ducts shall be sealed. Joints and seams shall comply with Section M1601.4. Duct tightness shall be verified by either of the following. #1. Post construction test: Leakage to outdoors shall be less than or equal to 8 cfm per 100 feet of conditioned floor area or a total leakage lessor equal to 12 cfm per 100 feet of conditioned floor area. All register boots shall be taped or otherwise sealed during the test. #2. Rough-in test: Total leakage shall be less than or equal to 6 cfm per 100 feet of conditioned floor areas when tested at a pressure differential of 0.1 inch wg across the roughed in system including the air handler enclosure. All boots taped. If air handler is not installed during test, total leakage shall be less than or equal to 4 cfm per 100 feet.

P L U M B I N G



PROPOSED DUPLEX
 106 MAIN STREET
 EAST HAMPTON, CONN.
 DATE: 8/1/00

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