!, ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF ALL APPLICABLE NATIONAL AND/OR MUNICIPAL BUILDING CODES AND ORDINANCES, THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND UTILITY SERVICE CHARGES. 3. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF ANY EXCAVATION. 4, SUB CONTRACTORS SHALL LEAVE SITE NEAT 4 FREE OF DEBRIS AT THE END OF EACH WORK DAY. 5. PLANS AND SPECIFICATIONS: IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS
TO PROVIDE FOR A COMPLETE INSTALLATION. EVERYTHING NECESSARY FOR
THE COMPLETION AND SUCCESSFUL OPERATION OF THE WORK, WHETHER OR NOT
HEREIN DEFINITELY SPECIFIED OR INDICATED, SHALL BE FURNISHED AND INSTALLED AS IF
SO SPECIFIED OR INDICATED. ALL MATERIALS SHALL BE INSTALLED IN STRICT

ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. 6. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND NOT INTENDED TO SHOW EXACT LOCATIONS UNLESS DIMENSIONED. DO NOT SCALE DRAWINGS. CONTRACTORS SHALL VERIFY ALL EXISTING FIELD CONDITIONS, DIMENSIONS, AND LENGTHS PRIOR TO THE START OF ANY WORK AND SHALL ADJUST THEIR EQUIPMENT AND RACEWAY LOCATIONS O AYOID CONFLICTS WITH OTHER CONSTRUCTION OR EQUIPMENT.

7. ALL SUB CONTRACTORS ARE RESPONSIBLE FOR THE COORDINATION OF THEIR WORK WITH ALL OTHER AFFECTED TRADES. 8. NO CONSTRUCTION ADMINISTRATION IS PROVIDED BY THE ARCHITECT. 9. THE ARCHITECT IS NOT RESPONSIBLE FOR THE METHODS OF CONSTRUCTION AND/OR ERROR AND OMISSION WITHIN THE METHODS OF CONSTRUCTION. IO. STAIRWAYS SHALL COMPLY WITH THE LATEST MUNICIPAL CODE.

II. GENERAL CONTRACTOR SHALL SUPPLY DUMPSTER AND SANITARY FACILITY FOR JOB PERSONNEL AT ALL TIMES, 12, GENERAL CONTRACTOR 16 TO MAINTAIN AND CLEAN STREETS IMMEDIATELY THROUGHOUT CONSTRUCTION, , TREE PRESERVATION FENCE IS TO BE MAINTAINED PER APPROVED SITE PLAN AT

14, DO NOT START WORK IF THE SUB-SURFACES ARE DEFECTIVE. THE COMMENCEMENT OF SUB-CONTRACTOR'S WORK SHALL CONSTITUTE ACCEPTANCE OF SUB-SURFACE. IS. EACH SUB-CONTRACTOR SHALL OBTAIN AND PROVIDE NECESSARY BONDS, PERMITS AND INSPECTIONS AS REQUIRED BY THE MUNICIPALITY, COUNTY, STATE OR OTHER AGENCIES 16. CURRENT INSURANCE CERTIFICATES IE. GENERAL LIABILITY, WORKMEN'S COMPESATION, ETC. MUST BE SUBMITTED TO THE BUILDER BEFORE PROCEEDING WITH ANY WORK. 11. LOCAL, STATE, NATIONAL BUILDING CODES HAVING JURISDICTION SHALL TAKE PRECEDENT OVER THESE PLANS AND SPECIFICATIONS IF THERE EXISTS A CONFLICT. THE SUB-CONTRACTOR SHALL NOT CHARGE EXTRAS FOR ITEMS NECESSARY TO MEET CODE REQUIREMENTS FOR HIS WORK EVEN IF THE ITEMS WERE NOT CALLED OUT ON THESE PLANS.

18, ALL WORK SHALL BE PERFORMED IN GOOD WORKMANLIKE MANNER. EACH SUB-CONTRACTOR SHALL WARRANTY THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OCCUPANCY PERMIT FROM DEFECTS AND WORKMANSHIP AND REPAIR ANY DEFECTS AT THEIR OWN COST. 19. THE APPROVED SET OF PRINTS, ALONG WITH THE COORDINATING PLAN REVIEW, MUST BE KEPT ON-SITE DURING THE COURSE OF CONSTRUCTION. THESE ITEMS MUST BE MADE AVAILABLE TO ALL REPRESENTATIVES OF THE BUILDING DEPARTMENT UPON REQUEST.

DIVISION 2 EXISTING CONDITIONS

, FIELD YERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF ALL UTILITIES, FOUNDATIONS SHALL BEAR ON A MINIMUM OF 1,500 PSF UNDISTURBED SOIL CONTRACTOR SHALL EXCAVATE TO THE DEPTH REQUIRED BEYOND SPECIFIED DEPTH TO ACHIEVE BEARING CAPACITY, FOOTING SHALL BEAR AT A MINIMUM DEPTH OF 3'-6" BELOW GRADE,

2. CONCRETE SHALL HAVE A MIN, ULTIMATE COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS, PROVIDE AIR ENTRAINING ADDITIVES FOR ALL CONCRETE EXPOSED TO THE 3, CONCRETE USED FOR ALL EXTERIOR WORKSHALL BE SIX (6) BAG PORTLAND CEMENT PER CUBIC YARD (4000 PSI). CONCRETE FOR ALL INTERIOR FLAT WORK SHALL BE FIVE AND A HALF (5 1/2) BAG PORTLAND CEMENT PER CUBIC YARD (3500 PSI). 4. COMPLY WITH THE CR61'S RECOMMENDED PRACTICE FOR "PLACING REINFORCING BARS", FOR DETAILS AND METHODS OF REINFORCMENT, PLACEMENT, AND SUPPORTS, AND AS HEREIN SPECIFIED.

5. PROVIDE TROWEL FINISH TO MONOLITHIC SLAB SURFACES TO BE EXPOSED-TO-VIEW AND SLAB SURFACES TO BE COVERED WITH RESILIENT FLOORING, CARPET, CERAMIC, OR QUARRY TILE, PAINT OR OTHER THIN FILM FINISH COATING SYSTEM, PROVIDE A LEVEL SURFACE PLANE SO THAT DEPRESSIONS BETWEEN HIGH SPOTS DO NOT EXCEED 1/8" UNDER A 10' STRAIGHT EDGE. 6. ALL CONCRETE PLACEMENT SHALL COMPLY WITH THE ASTM, THE ACI, AND THE CRSI. I, PROVIDE GRANULAR BACKFILL UNDER ALL CONCRETE 6LABS NOT SUPPORTED BY WING WALLS, 8. PROVIDE FILL COMPACTED IN ACCORDANCE WITH THE ASTM STANDARDS. 9. PROVIDE FIBERGLASS REINFORCED DAMP-PROOFING OR EQUAL ON FOUNDATION WALLS. O. PROVIDE GRANULAR BACKFILL FOR GARAGE AREA AND EXCAVATED DRIVE AREAS. I. PROVIDE ZIP STRIPS IN BASEMENT SLAB AND SAWCUT CONTROL JOINTS AT GARAGE SLAB.

2. PROVIDE WWF REINFORCING IN GARAGE 6LAB AND PROVIDE FIBERMESH REINFORCING IN ALL OTHER SLABS. 13. YERIFY LOCATIONS OF ALL SERVICE SLEEVES THROUGH FOUNDATION WALLS WITH THE BUILDER.

. THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION" LATEST EDITION FOR A-36 STEEL. STEEL , REINFORCING BARS SHALL BE ASTM GRADE 40 WITH SPLICES TO BE LAPPED 12" MIN, DIVISION 6 WOOD, PLASTICS, AND COMPOSITES

1. ALL JOISTS, RAFTERS, STUDS, AND MISC, STRUCTURAL FRAMING SHALL BE KILN DRIED, LUMBER NO.2: 1,300,000 E MINIMUM. 2. PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS AND SOLID BLOCKING BENEATH ALL PERPENDICULAR PARTITIONS. . PROVIDE DOUBLE JOISTS BENEATH WHIRLPOOL, REFRIGERATORS, TUBS, & SHOWERS. 4. ALL EXTERIOR BEARING PARTITIONS SHALL HAVE STUDS @ 16" O.C. WITH DOUBLE TOP PLATE MINIMUM LAP OF 48". ALL SUBFLOORS TO BE 3/4" T&G OSB, WITH DRAINAGE NOTCHES BY LOUISIANA-PACIFIC, DECKING GLUED AND SCREWED AS PER SPECIFICATIONS OF THE APA. 6. PROVIDE SILL SEALER BETWEEN FOUNDATION AND SILL PLATE. SILL PLATE SHALL BE WEATHER AND INSECT TREATED. ALL SILLS SHALL BE TERMITE PROTECTED.

7. ALL WOOD IN CONTACT WITH CONCRETE, CONCRETE BLOCK, OR EARTH SHALL BE WEATHER AND INSECT TREATED. 8. PROVIDE A MIN. OF DOUBLE 2x12's WITH 1/2" PLYWOOD FLITCH PLATE HEADERS AT ALL 2x4 FRAMED OPENINGS AND (2) 2x12's WITH (2) 1/2" PLYWOOD FLITCH PLATES HEADERS AT ALL 2x6 FRAMED OPENINGS UNLESS NOTED OTHERWISE.), PROVIDE 1/2" OSB OR PLYWOOD SHEATHING AT ENTIRE HOUSE,

O, FRAMED CORNERS SHALL BE A MINIMUM OF THREE STUDS. II, PROVIDE A MINIMUM OF CONTINUOUS 2×6 LEVELING PLATE ON TOP OF ALL STEEL BEAMS UNLESS NOTED OTHERWISE.

, PROVIDE 1/2" DRYWALL FIRE SEPARATION UNDER ALL TUB DECK RIM. 13, PROVIDE A MINIMUM OF DOUBLE STUDS AT EACH JAMB, 4. PROVIDE A MINIMUM OF DOUBLE CRIPPLES AT EACH JAMB OPENING GREATER THAN T'-O". 5. ALL ENGINEERED FLOOR JOISTS & BEAMS IE. TJI, LVL, PARALLAM, ETC. SHALL BE INSTALLED N ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

16. CARPENTER SHALL PROVIDE BACKING NECESSARY FOR DRYWALL ATTACHMENT, BATH ACCESSORIES, MEDICINE CABINETS, STAIR RAILING, CLOSET ROD, ETC. DIVISION 1 THERMAL AND MOISTURE PROTECTION I. PROVIDE SHAFTS AND FIRESTOPPING AT ALL PIPE, CONDUIT, DUCT OPENINGS, OR OTHER PENETRATIONS. PROVIDE FIRESTOPPING AT ALL FURRING, PARTITIONS, AND OUTSIDE STUD WALLS AT THE LEVEL OF EACH FLOOR OR CEILING AND AT SOFFIT AREAS, PROVIDE ADDITIONAL FIRESTOPPING AS REQUIRED PER LOCAL CODE, , ALL FLASHINGS AND SHEET METAL WORK SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST SMACNA REFERENCE MANUAL FOR INSTALLATION AND SHAPES, . ROOFER SHALL INSTALL BABY TINS UNDER TYVEK - WRAP.

4. REFER TO TYVEK MANUAL AND INSTALL AIR BARRIER IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. PROVIDE AIR BARRIER WRAP AND SILL, HEAD, AND JAMB FLASHING AS MANUFACTURED BY TYVEK $\,$. 5. PROVIDE SOUND ATTENUATION BLANKETS AT ALL WASTE LINES IN FLOOR AND WALL CAVITIES. PROVIDE SOFT CLOSED CELL FOAM OR DENSE GLASS FIBER SLEEVES, IOMINALLY 3" LONG AND 1/2" THICK BETWEEN UNINGULATED PIPES AND HANGERS HERE SHOULD BE NO DIRECT CONTACT BETWEEN THE PLUMBING AND STUDS OR

DIVISION 8 OPENINGS

. ALL GLAZING SHALL MEET OR EXCEED THE REQUIREMENTS OUTLINED IN THE VILLAGE CODE, , PROVIDE TEMPERED OR SAFETY GLASS ABOVE TUBS, DOORS AND OTHER HAZARDOUS OCATIONS PER CODE. 3. PROVIDE EMERGENCY ESCAPE AND RESCUE WINDOWS IN BASEMENTS AND BEDROOMS. GILL HEIGHT SHALL NOT EXCEED 44 INCHES ABOVE THE FLOOR. MINIMUM NET CLEAR OPENI SHALL BE 5.1 SQUARE FEET EXCEPT AT GRADE FLOOR LEVEL OPENING SHALL HAVE A MIN. NET CLEAR OPENING OF 5 SQUARE FEET. THE MINIMUM NET CLEAR OPENING HEIGHT SHALL 24 INCHES AND THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES. ESCAPE AM

RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF

ADDITIONAL NOTES: ALL HANDRAILS AND GUARDRAILS MUST BE CAPABLE OF RESISTING

A CONCENTRATED LIVE LOAD OF 200 LB6 APPLIED IN ANY DIRECTION, BATHROOM EXHAUST FANS TO BE VENTED DIRECTLY TO OUTSIDE.

WALLS IN TUB AND SHOWER AREAS TO BE 1/2" DUROCK OR EQUAL. MAINTAIN SAFETY GLAZING FOR ALL HAZARDOUS LOCATIONS. ALL BOLTS AND FASTENERS USED MUST BE COMPATABLE WITH PRESERVATIVE-TREATED WOOD FOLLOW MANUFACTURER'S SPECS, FOR ANY NOTCHING OR CUTS TO 1-JOISTS

OR TRUSSES OR LYL MATERIAL RANGE HOODS TO DISCHARGE TO OUTDOORS THROUGH A SINGLE-WALL DUCT JOINTS OF DUCT SYSTEMS SHALL BE MADE SUBSTANTIALLY AIRTIGHT BY MEANS OF APPROVED TAPE PROVIDE 10% OF THE ELECTRICAL PANEL AS SPACES OR BLANKS FOR FUTURE EXPANSION PROVIDE I 1/4" UNUSED RACEWAY FROM BASEMENT TO ATTIC VERIFY LOCATION IN FIELD

PROVIDE TAMPER-RESISTANT RECEPTACLES ALL CLOSET LIGHTS TO BE SURFACE MOUNT LED WITH COMPLETELY ENGLOSED TUBE SWITCH AND RECEPTACLE BOXES TO BE 4" SQUARE BY 1 1/2" DEEP ALL GENERAL LIGHTING BOXES TO BE 1 1/2" DEEP BY 3 3/4" DIA. PROVIDE MIN. FOUR INCH ADDRESS NUMBERS AFFIXED TO THE FRONT OF THE HOUSE DIVISION 9 FINISHES

, ALL BATHTUB DECKS AND INTERIOR WALLS/SHOWER LOCATIONS SHALL BE 2. PROVIDE CONCRETE BACKER BOARD AT ALL AREAS TO RECEIVE TILE FINISH AND INSTALL GREEN BOARD AT MASTER TUB SURROUND WALLS FOR PAINT. 3. ALL CERAMIC AND QUARRY TILE TO BE INSTALLED IN THINSET OVER CONCRETE BACKER BOARD. 4. ALL GYPSUM BOARD SURFACES AND PAINTED WOODWORK TO RECEIVE ONE (1) PRIME AND TWO (2) FINISH OIL BASE/LATEX PAINT COATS. ALL INTERIOR WOOD TRIM TO BE BACK PRIMED, DOORS TO BE PAINTED (SEALED), ALL SIX SIDES. VERIFY FINISH WITH

DWNER, PAINT FINISHES: WALLS - EGGSHELL; CEILING - FLAT; DOORS & TRIM - PEARL,

MATERIALS: PRATT AND LAMBERT OR APPROVED EQUAL, VERIFY FINISHES IN FIELD WITH OWNER, STAINED WOODWORK TORECEIVE ONE (1) COAT STAIN AND TWO (2) COATS VARNISH WITH STEEL WOOLING BETWEEN COATS. 5. GARAGE INTERIOR WALLS AND CEILING SHALL BE 5/8" TYPE "X" GYPSUM BOARD. 6. ALL COLORS, FINISHES, AND MATERIAL SELECTIONS TO BE MADE AND APPROVED 1. ALL INTERIOR WALL FINISH TO BE 1/2" GYPSUM BOARD.

, PROVIDE ONE 50 GALLON WATER HEATERS WITH TEN (10) YEAR GUARANTEE, 2. PROVIDE CLEANOUTS AT EVERY CHANGE IN DIRECTION AND IN ANY RUN WITH A BEND TOTAL GREATER THAN 45 DEGREES. 3. WHERE INDICATED ON THE DRAWING, INSTALL ALL PLUMBING FIXTURES AND APPLIANCES AS SELECTED BY OWNER. 4. PLUMBING CONTRACTOR TO PROVIDE ALL VENTS, SHUT-OFFS, AIR CHAMBERS,

Plumbing Notes:

RISERS, ETC., AS REQUIRED.

3. SOLDER JOINTS BEFORE THE WATER METER ARE PROHIBITED. 4. MINIMUM CLEARANCES FOR ACCESS TO WATER CLOSETS SHALL BE 16 INCHES CENTERLINE 5. OBSTRUCTIONS: 30 INCHES FROM FRONT OF BOWL TO WALL OR OTHER OBSTRUCTIONS. 6. MINIMUM 30 INCH DEPTH FOR ALL EJECTOR PITS. 1. SHOWER MIXING VALVES SHALL BE STAMPED ASSE-1016

8, PROVIDE MIN, 1 1/2" WATER SERVICE AND A 1 1/2" WATER METER, 9, PROVIDE SERVICE WEIGHT PVC PIPE FOR BUILDING DRAIN AND RELATED UNDERGROUND PIPING.

DIVISION 23 HEATING, VENTILATING, AND AIR CONDITIONING I. HYAC CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE THE DESIGN AND INSTALLATION OF HEATING COOLING AND VENTILATION YSTEMS, INCLUDING BUT NOT LIMITED TO HEATING PLANT(S) DISTRIBUTION, AIR CONDITIONING SYSTEM TEMPERATURE (DUAL SETTING/COMPUTER SETBACK HERMOSTATS) AND HUMIDIFICATION CONTROL, FILTER, EXHAUST FAN CONNECTIONS GAS FIRED EQUIPMENT FLUES AND APPLIANCE VENTS. ENTIRE SYSTEM SHALL CONFORM TO APPLICABLE ASHRAE AND SMACNA STANDARDS, CONTRACTOR SHALL CALCULATE HEAT LOSS AND GAIN, SIZE ALL DUCTS AND EQUIPMENT TO GUARANTEE SYSTEM WILL HEAT HOUSE TO 14 F lpha 15 F outside temperature with 15 M.P.H. WINDS AND COOL HOUSE TO 14 F pprox 95 F OUTSIDE TEMPERATURE. CONTRACTOR TO PROVIDE THE NUMBER, MANUFACTURER, AND EFFICIENCY OF THE FURNACES, A/C COMPRESSOR AND ASSOCIATED EQUIPMENT REQUIRED TO MEET THE MECHANICAL HEATING AND COOLING SPECIFICATIONS AT TIME OF BID SUBMITTAL, FURNACES HAVE BEEN ANTICIPATED, CONTRACTOR SHALL COORDINATE WITH OWNER FOR ZONING DESIRED, MECHANICAL CONTRACTOR TO REVIEW LAYOUT OF SUPPLY AND RETURN GRILLES AND LOCATION OF THERMOSTATS WITH OWNER IN FIELD PRIOR TO INSTALLATION, CONTRACTOR TO PROVIDE LOAD CALCULATIONS MANUAL J OR EQUAL. 2. RUN DUCTWORK TIGHT TO UNDERSIDE OF FLOOR CONSTRUCTION IN BASEMENT. 3. HEATING CONTRACTOR TO CONNECT FLUE FROM HOT WATER HEATERS INTO FURNACE FLUE IF APPLICABLE. 4. VENT ALL POWDER ROOM AND BATH EXHAUST FANS THROUGH ATTIC TO EXTERIOR WALL LOCATIONS WHERE POSSIBLE. 6. ALL DRYER VENTS & COOKTOP EXHAUST SHALL BE VENTED DIRECTLY TO THE OUTSIDE AND FLASHED ACCORDINGLY. 7. HEATING CONTRACTOR TO RUN ALL CONDENSATE LINES TO FLOOR DRAIN.

8. PROVIDE COMBUSTION AIR SUPPLY TO ALL GAS FIRED EQUIPMENT IN ACCORDANCE WITH NFPA 54, AND OTHER APPLICABLE CODES. 9. HYAC CONTRACTOR SHALL PROVIDE DUCT LAYOUT, CFM DISTRIBUTION AND HEAT LOSS CALCULATIONS TO MEET LOCAL CODE REQUIREMENTS. IO, ALL HEATING AND ELECTRICAL EQUIPMENT TO BE INSTALLED TO MEET LOCAL BUILDING CODES AND INSPECTOR APPROVAL, 11. PROVIDE SHEET METAL PAN UNDER FURNACE ON SECOND FLOOR OR ATTIC.

I, HYAC CONTRACTOR TO PROVIDE LOAD CALCS, (MANUAL J OR EQUAL) 2, FOR 90% FURNACES I OR 2 PIPE SYSTEM IF I PIPE SYSTEM PROVIDE COMBUSTION AIR. 3. PROVIDE COMBUSTION AIR TO LAUNDRY ROOM. 4. PROVIDE SHEET METAL PAN UNDER FURNACE ON SECOND FLOOR.
5. NO FLEX DUCT ALLOWED IN CONCEALED AREAS.

DIVISION 26 ELECTRICAL

. ALL SWITCHES SHALL BE LOCATED AT +48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. ALL RECEPTACLES SHALL BE LOCATED AT +12" ABOVE FINISHED FLOOR 2. PROVIDE GFI OUTLETS AND SWITCHED CONNECTIONS AS REQUIRED. PROVIDE DISCONNECTS AT MOTORS. 3. ALL ELECTRICAL FIXTURES WITHIN WET AREAS OF BATHROOM SHALL BE DAMP LOCATION APPROVED BY UL. 4, GROUND ELECTRICAL PANEL SERVICE WITH (2)8'-0" DRIVE-IN GROUNDING ROD AND CONNECT TO COLD WATER SERVICE. 5. PROVIDE PC LIGHT NEXT TO ALL ATTIC ACCESS PANELS WITHIN ATTIC SPACE. 6. PROVIDE A MINIMUM OF 400 AMP SERVICE. 1. ALL WP RECEPTACLES SHALL BE WEATHER-PROOF AND HAVE GROUND FAULT INTERRUPTER. 8. ALL INTERIOR RECEPTACLES SHALL HAVE AN AUTO-GROUND CLIP.

9, ALL DIRECTLY CONNECTED HYAC AND KITCHEN APPLIANCES TO BE DIRECT WIRED BY ELECTRICIAN, IO. ELECTRICAL CONTRACTOR SHALL VERIFY POWER REQUIREMENTS AND RECEPTACLE LOCATIONS FOR ALL APPLIANCES IN FIELD PRIOR TO WIRING. I, ALL SURFACE MOUNTED LIGHT FIXTURES NOT SPECIFIED TO BE PROVIDED BY GENERAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR, 12. INSTALL TOGGLE TYPE SWITCHES AND OUTLETS (WHITE). 13. ALL RECESSED CAN LIGHT FIXTURES SHALL BE 6" UNIVERSAL HOUSING TO TYPE CANS FOR NON-INSULATED AREAS. USE IC CANS FOR INSULATED AREAS.

14. PROVIDE ARCH FAULT RECEPTACLES & DEVICES BRANCH CIRCUIT FOR ALL BEDROOMS.

GFCI PROTECTION MUST BE FROM A RECEPTACLE IN SAID ROOM, SERVICE PANEL PROTECTION FROM 2. RECEPTACLE SHALL BE RATED AT THE BRANCH CIRCUIT RATING.

3. BASEMENTS AND GARAGES MUST HAVE AT LEAST ONE 20 AMP GFCI RECEPTACLES ON SEPARATE CIRCUITS.

4. BASEMENTS MUST HAVE NOT LESS THAN IS FOOT CANDLES OF ILLUMINATION IN THE ENTIRE BASEMENT. 5. ALL APPLIANCES SHALL HAVE INDIVIDUAL CIRCUITS. 6. MAXIMUM OF ELECTRICAL OPENINGS PER CIRCUITES: 9-15 AMPS; 11-20 AMPS. 1. ALL FLEX MUST HAVE A GROUNDING CONDUCTOR INSTALLED.
8. ALL BOXES MOUNTED IN CEILING MORE THAN 2 FEET FROM WALL, MUST BE RATED FOR FAN SUPPORT.
9. NSTALL A FACELESS GFCI RECEPTACLE 5 FEET AWAY FROM TUB, OR GFCI BREAKER IN PANEL

FOR POWER FEED FOR PUMP IN HYDRO TUBS. 10. SMOKE DETECTOR MUST HAVE A BREAKER LOCK INSTALLED ON BREAKER.

11. INSTALL 1/2" EMT OT OUTSIDE OF BUILDING FROM WITHIN I FOOT OF WATER METER FOR R.O.M. 12. EXPOSED WORK MUST BE INSTALLED IN A WORKMAN LIKE MANNER.
13. NO MORE THAN 5% VOLTAGE DROP IN ALL BRANCH CIRCUITS AT FURTHEST POINT.
14. COMBINATION SMOKE AND CO DETECTORS SHALL BE WITHIN 15 FEET OF ALL BEDROOMS.

IS. SMALL APPLIANCES CIRCUIT MUST BE INSTALLED IN KITCHEN, BREAKFAST, DINING, AND PANTRY.
16. NO BACK TO BACK BOXES IN GARAGES.
17. PROVIDE ARC FAULT RECEPTACLES BRANCH CIRCUIT FOR BEDROOMS. 18. INSTALL 3/4" RACEWAY SYSTEM FROM BASEMENT TO ATTIC. 9. ADD CO DETECTORS ONE AT EACH LEVEL OF BUILDING. 20. GROUNDING CONDUCTOR MAY NOT BE SMALLER THAT *4 AWG. SERVICE DISCONNECTING MEANS SHALL BE ON THE EXTERIOR OF THE BUILDING.

SURFACE MOUNT INCAND, 12" AWAY FROM NEAREST POINT OF STORAGE RECESSED INCAND, OR SURFACE MOUNT FLOUR, 6" AWAY FROM NEAREST POINT OF STORAGE.

LIGHT FIXTURES IN CLOSET MUST HAVE A COMPETELY ENCLOSED LAMP. ALL LIGHT FIXTURES WITHIN TUB / SHOWER COMPARTMENTS SHALL HAVE A VAPOR PROOF COVER AND SHALL BE GFCI PROTECTED.

Additional Notes: I. FOLLOW CODE FOR BATHROOM RECEPTACLE CIRCUIT (IE. 20 AMP CIRCUIT) 2. OUTSIDE GFCI RECEPTACEL MAY NOT BE ON SMALL APPLIANCE KITCHEN CIRCUIT 3, GFCI PROTECTION MUST BE FROM A RECEPTACLE IN SAID ROOM, OR SERVICE PANEL PROTECTION FROM ROOM TO ROOM IS NOT ALLOWED 4. BASEMENTS AND GARAGES SHALL HAVE AT LEAST ONE 20 AMP GFCI RATED RECEPTACLE ON SEPARATE CIRCUITS

6. GROUNDING CONDUCTOR MAY NOT BE SMALLER THAN \$4 AUG. 7. INDIVIDUAL CIRCUITS REQUIRED FOR ALL APPLIANCES 8. MAX. NO. OF ELECTRICAL OPENINGS PER CIRCUIT: 9-15AMP6:11-20 AMP6 9. SMALLEST SIZE OF SERVICE IS 200 AMP/40 CIRCUIT;2" CONDUIT 10% SPARE ON FINAL 10. ALL FLEX MUST HAVE A GROUNDING CONDUCTOR INSTALLED 1. ALL BOXES INSTALLED IN CEILING MOUNTED MORE THAN 2' FROM WALL MUST BE RATED FOR FAN SUPPORT . , INSTALL FACELESS GFCI REC. 5' FROM TUB, OR GFCI BREAKER IN PANEL FOR POWER FEED. 13, SMOKE DETECTOR MUST HAVE A BREAKER LOCK INSTALLED ON BREAKER 14, INSTALL 1/2" EMT TO OUTSIDE OF BUILDING FROM WITHIN 1-FOOT OF WATER METER FOR R.O.M. 15, EXPOSED WORK TO BE INSTALLED IN A WORKMANLIKE MANNER

16. NO MORE THAN 5% VOLTAGE DROP IN ALL BRANCH CIRCUITS AT FURTHEST POINT

PLUMBING NOTES:

25 PSI AIR TEST REQUIRED ON ALL GAS PIPING AT THE TIME OF ROUGH INSPECTION

PROVIDE SHOWER MIXING YALVE ADJUSTED TO 115F AT TIME OF INSTALLATION VERTICAL AND HORIZONTAL PIPING TO BE SECUED AND SUPPORTED IN ACCORDANCE SERVICDE PIPE TO BE LAID MIN, 5'-6" BELOW GRADE, MAX DEPTH OF WATER SERVICE TO BE 8' BELOW GRADE PROVIDE POTABLE WATER EXPANSION TANK WITH NO SHUT-OFF VALVE OR OTHER DEVICE BETWEEN THE HEATER AND EXPANSION TANK UNDERGROUND BUILDING DRAINS TO BE CAST IRON SOIL PIPE. DRAINS PASSING THROUGH FOUNDATION WALLS TO BE CLASS 52 DUCTILE IRON TO MIN. 5' OUTSIDE FOUNDATION WALL PVC SCHEDULE 40 PIPE OR HEAVIER TO BE USED FOR UNDERGROUND WASTE OR VENT PIPING SECURED BY STAKES, GROUND STAKES TO BE SIOUX CHIEF TOMAHAWK #535-9P OR EQUAL SUMP OR HUB DRAIN TO EXTEND 2" ABOVE BASEMENT FLOOR A STACK TEST IS REQUIRED ON ALL WASTE AND VENT PIPING AT THE TIME OF ROUGH AND UNDERGROUND INSPECTIONS. 75 PSI AIR TEST OR WATER PRESSURE REQUIRED ON WATER PIPING AT TIME OF ROUGH INSPECTION,

ADDITIONAL NOTES:

OF 10' INTERVALS,

APPROVED PLANS MUST BE KEPT ON SITE AT ALL TIMES. RIDGE BOARDS, VALLEY AND HIP BOARDS ARE NOT TO BE LESS IN DEPTH THAN THE CUT END OF RAFTERS. WRITTEN RECORD FROM THE MATERIAL SUPPIER SHALL BE PROVIDED UPON DELIVERY

ALL NEW BATHROOM WINDOWS TO BE APPROVED SAFETY GLASS. GROUNDED BUSHING OR LOCKNUTS SHALL BE USED IN METER FITTING AND CIRCUIT BREAKER PANEL, NO EXCEPTIONS. ALL OUTLETS AND SWITCHES SHALL BE CONNECTED TO WIRES USING SCREW-TYPE

ALL CEILING BOXES IN HABITABLE ROOMS SHALL BE CEILING FAN RATED.

ALL CLOSET LIGHTING TO BE SURFACE FLOURESCENT FIXTURES WITH COMPLETELY ENCLOSED LAMP MIN, 6" FROM STORAGE POINT. ALL WATER CLOSET VENTS TO BE 2" MIN.FURNACE TO BE SUPPLIED WITH DEDICATED BRANCH CIRCUIT AIR CHAMBERS TO BE INSTALLED ON ALL FIXTURES, ALL TUB AND SHOWER FIXTURES TO

BE ANTI-SCALD, NOT EXCEED 115 DEG AT TIME OF INSTALLATION. ALL LOW VOLTAGE WIRING TO BE CONCEALED AND INACCESSIBLE SHALL BE RUN IN CONDUIT. ALL DUCT SYSTEM JOINTS AND SEAMS SHALL BE MADE SUBSTANTIALLY AIR TIGHT

BY MEANS OF TAPE OF OTHER APPROVED METHODS AND BE SUPPORTED A MAX.

RECEPTACLES ARE TO BE TAMPER RESISTANT TYPE. FIRESTOPPING TO BE PROVIDED HORIZONTALLY AT INTERVALS

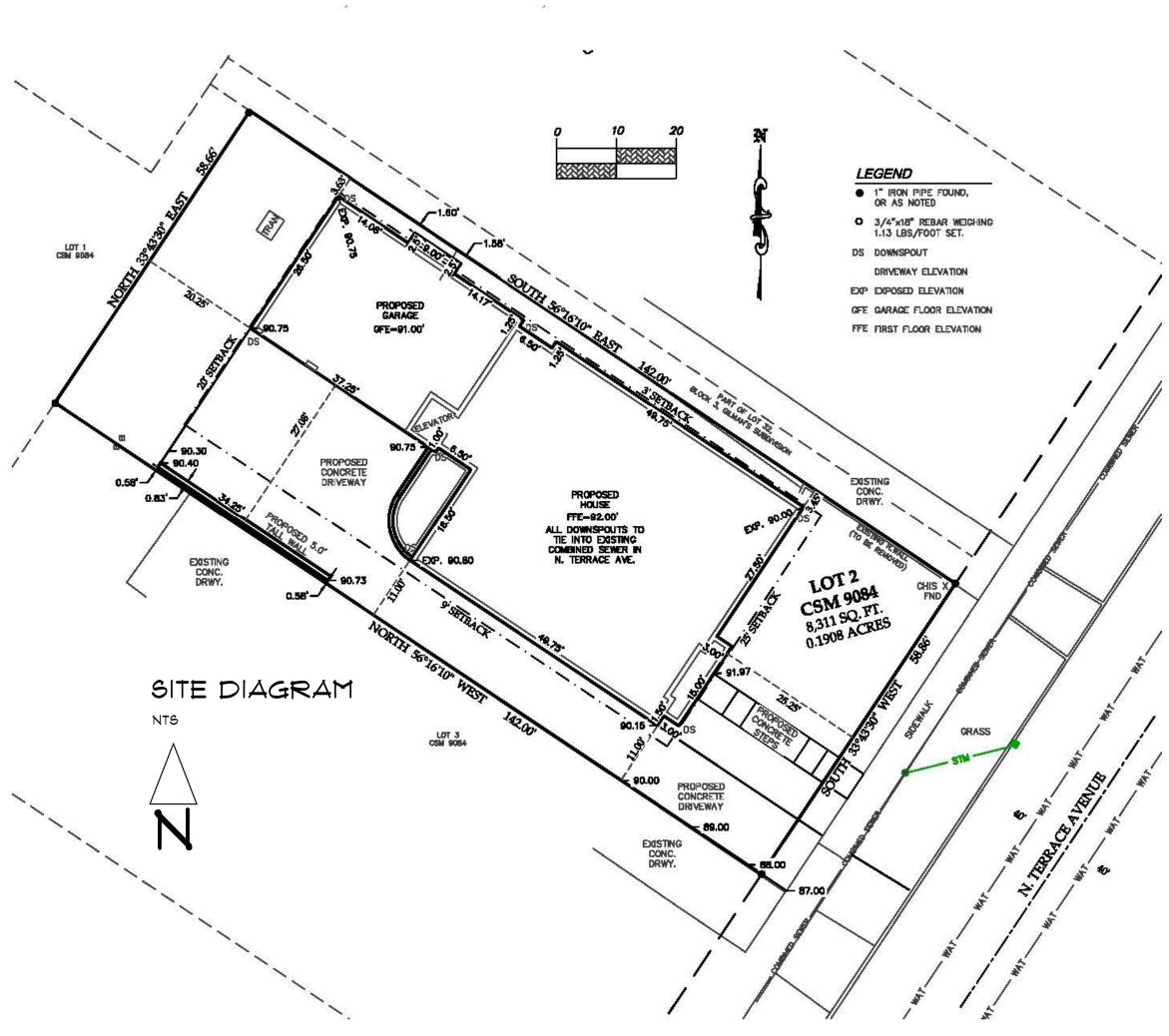
HAVE A MINIMUM OF THREE CONNECTION POINTS.

ALL NEW AND ALTERED BRANCH CIRCUITS THAT SUPPLY 120-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE OUTLETS NSTALLED IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATIONS ROOMS, CLOSETS.

HALLWAYS AND SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A COMBINATION TYPE ARC-FAULT

CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT PROVIDE INTERSYSTEM BONDING TERMINATION AT THE EXTERIOR AS CLOSE AS POSSIBLE TO ELECTRICAL SERVICE ENTRY POINT IBT SHALL BE ACCESSIBLE FOR INSPECTION AND SERVICE, MUST

SUMP PUMP DISCHARGES ARE TO BE LOCATED AT THE REAR WALL OF THE DWELLING UNIT, DISCHARGE PIPING TO BE DIRECTED AWAY FROM ADJACENT SIDE PROPERTIES



ADDITIONAL ENERGY CODE COMPLIANCE NOTES:

RECESSED CAN LIGHTING INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE, IC RATED AND LABELED BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND THE INTERIOR TO HAVE AN AIR LEAKAGE RATE NOT MORE THAN 2.0 CFM, ALL CAN LIGHTING SHALL WALL OR CEILING COVERING. INGULATE ALL HOT WATER PIPING WITH MIN, R-3,

PROVIDE A MINIMUM OF 90% OF ALL LAMPS IN PERMANENTLY INSTALLED LIGHTING SHALL BE HIGH-EFFICIENCY LAMPS, ALL NEW FENESTRATION TO HAVE U = 0.30 OR BETTER

ALL NEW EXTERIOR WALLS TO HAVE MIN, R-21 INSULATION ALL NEW WINDOWS TO HAVE MAX AIR INFILTRATION RATE OF 0.3 CFM

ALL NEW SWINGING DOORS TO HAVE MAX 0.5 CFM PER SQ. FT.

DRAWING INDEX

TITLE PAGE GENERAL NOTES

FRONT ELEVATION LEFT ELEVATION

REAR ELEVATION - RIGHT ELEVATION

BASEMENT PLAN PLUMBING DIAGRAMS

FIRST FLOOR PLAN RADON DIAGRAM

SECOND FLOOR PLAN STAIR DETAIL

ELECTRICAL PLANS

MECHANICAL PLANS

CODE REQUIREMENTS AND STANDARDS TO MEET THE FOLLOWING:

THESE PLANS AND ALL CONSTRUCTION SHALL CONFORM TO THE STATE OF WISCONSIN BUILDING CODE FOR RESIDENTIAL STRUCTURES

LINE ITEM	REQUIRED	PROPOSED	NOTES
	0.30	0.30	FENESTRATION U FACTOR
WINDOWS	0.55	N.A.	SKYLIGHT U FACTOR
	NR	NR	GLAZED FENESTRATION SHGC.
CEILING/ATTIC	R-49	R-60	R-38 MINIMUM IN CATHEDRAL CEILINGS
WALLS	R-20 OR	R-21	WOOD FRAMED 2x6 WALL
FLOORS	R-30	R-38	
BASEMENT WALLS	R-10	R-15	INTERIOR BATT
SLAB ON GRADE	R-10	R-10	INTERIOR RIGID, UNDER SLAB CONTINUOUS
CRAWLSPACE	R-15 OR R-19	N.A.	
SUNROOM	R-13 WALLS & R-24 CEILING	N.A.	
DUCTWORK	R-8 OR R-6	R-8	Supply and return ducts in the attic must be a minimum of R-8 (where ≥3-inch diameter) and R-6 (where ≤3-inch diameter). Supply and return ducts everywhere else must be a minimum of R-6 (where ≥3-inch diameter) and R-4.2 (where <3-inch diameter).

When Section R402.1.1 would require R-38 in the ceiling, R-30 shall be deemed to satisfy the requirement for R-38 wherever the full height of uncompressed R-30 insulation extends over the wall top plate at the eaves. Similarly, R-38 shall be deemed to satisfy the requirement for R-49 wherever the full height of uncompressed R-38 insulation extends over the wall top plate at the eaves. This reduction shall not apply to the U-factor alternative approach in Section R402.1.3 and the total UA R402.2.2 Ceilings without attic spaces.

Where Section R402.1.1 would require insulation levels above R-30 and the design of the roof/ceiling assembly does not allow sufficient space for the required insulation, the minimum required insulation for such roof/ceiling assemblies shall be R-30. This reduction of insulation from the requirements of Section R402.1.1 shall be limited to 500 square feet (46 m2) or 20 percent of the total insulated ceiling area, whichever is less. This reduction shall not apply to the U-factor alternative approach in Section R402.1.3 and the total UA alternative in Section R402.1.4.

R403.4.2 Hot water pipe insulation (Prescriptive), insulation for hot water pipe with a minimum thermal resistance (R-value) of R-3 shall be applied to the following: 1. Piping larger than 3/4 inch nominal diameter.
2. Piping serving more than one dwelling unit.
3. Piping from the water heater to kitchen outlets.
4. Piping located outside the conditioned space.
5. Piping from the water heater to a distribution manifold.
6. Piping located under a floor slab.

Piping located under a floor slab.

5. Piping located under a ricci stad.

1. Buried piping.

8. Supply and return piping in recirculation systems other than demand recirculation systems.

9. Piping with run lengths greater than the maximum run lengths for the nominal pipe diameter given in Table R403.4.2. All remaining piping shall be insulated to at least R-3 or meet the run length requirements of Table R403.4.2.

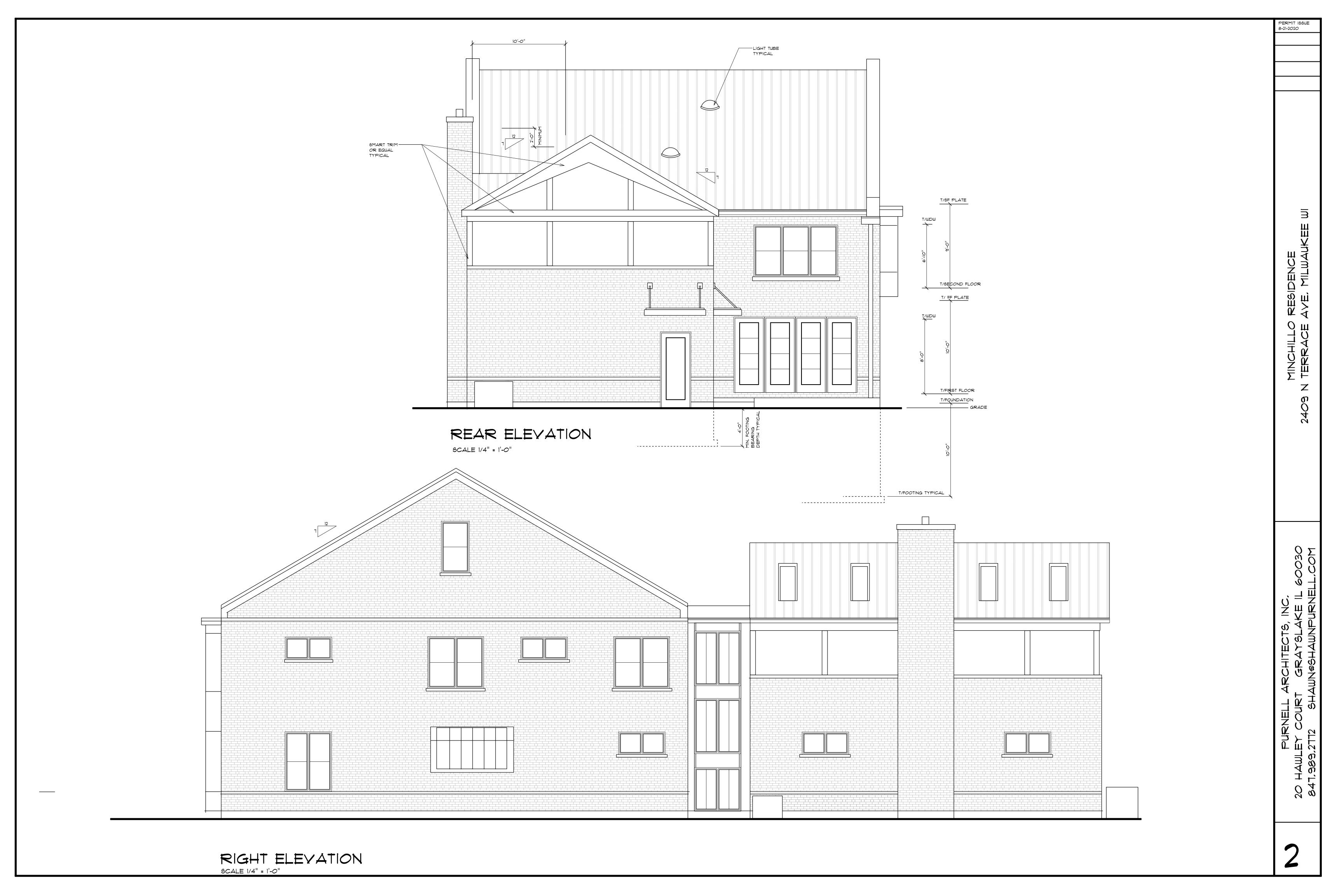
TABLE R403.4.2 MAXIMUM RUN LENGTH (feet)a Nominal Pipe Diameter of Largest Diameter Pipe in the Run (inch)

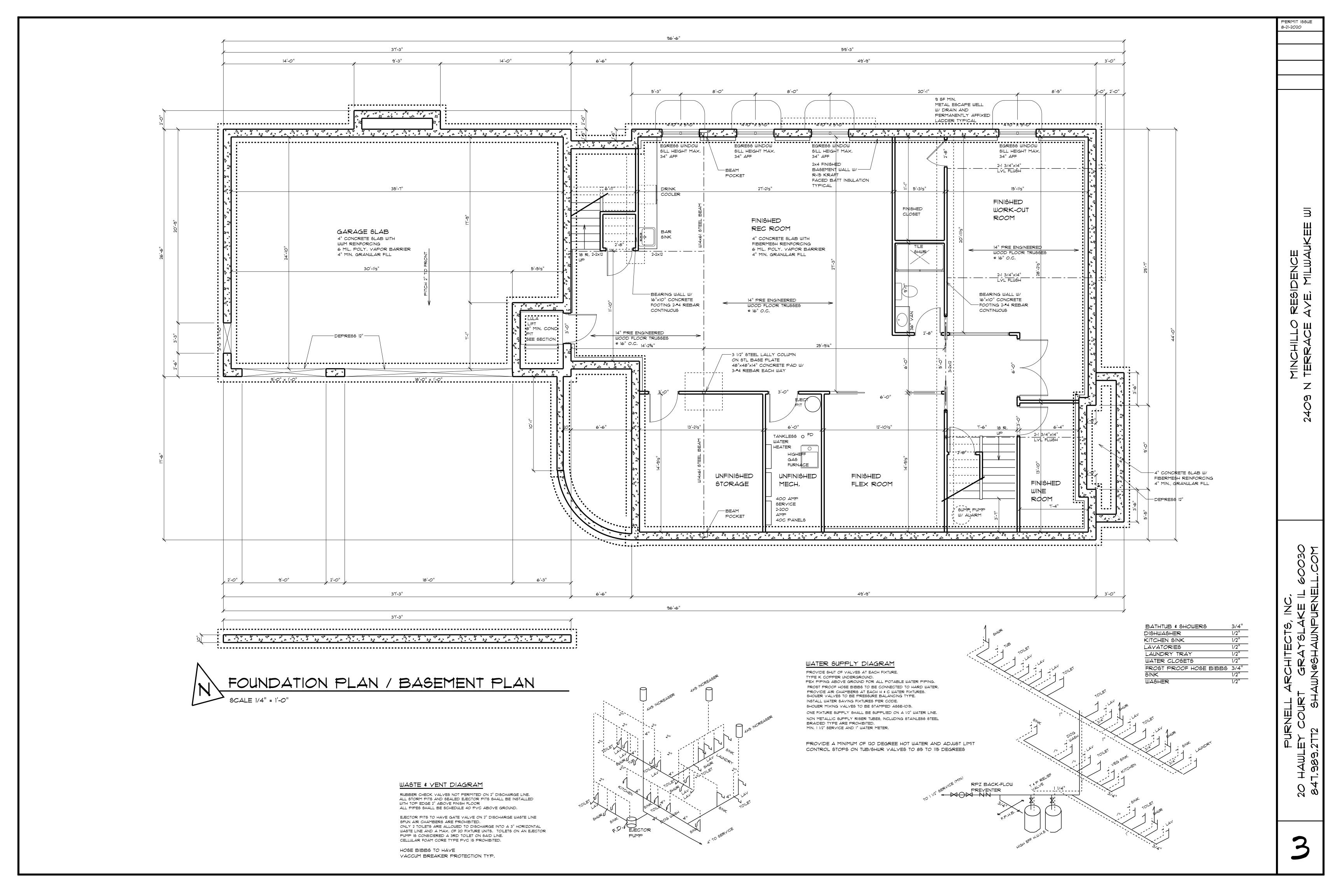
Maximum Run Length

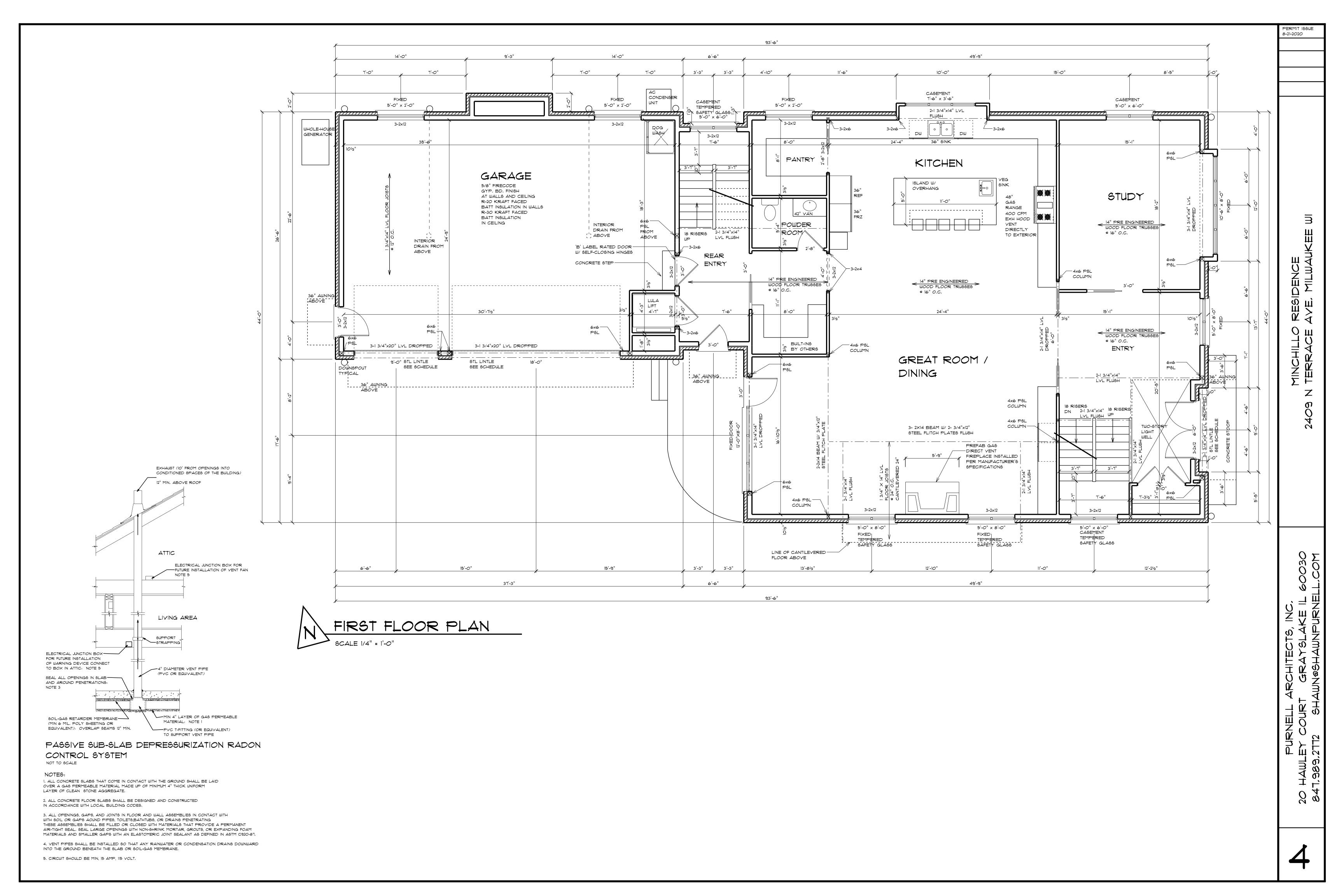
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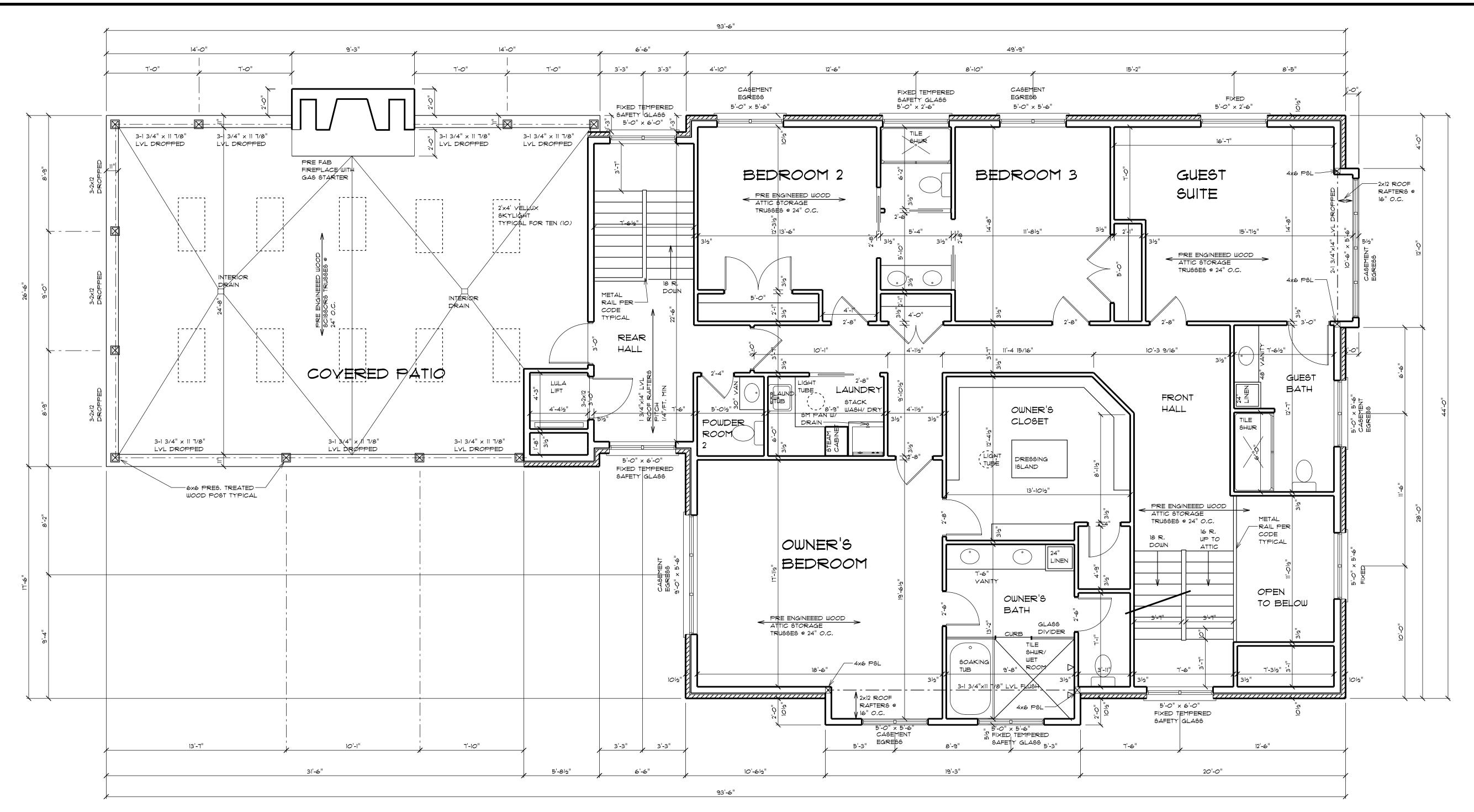




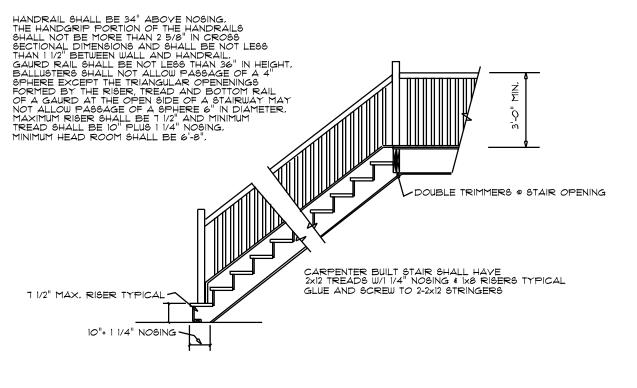




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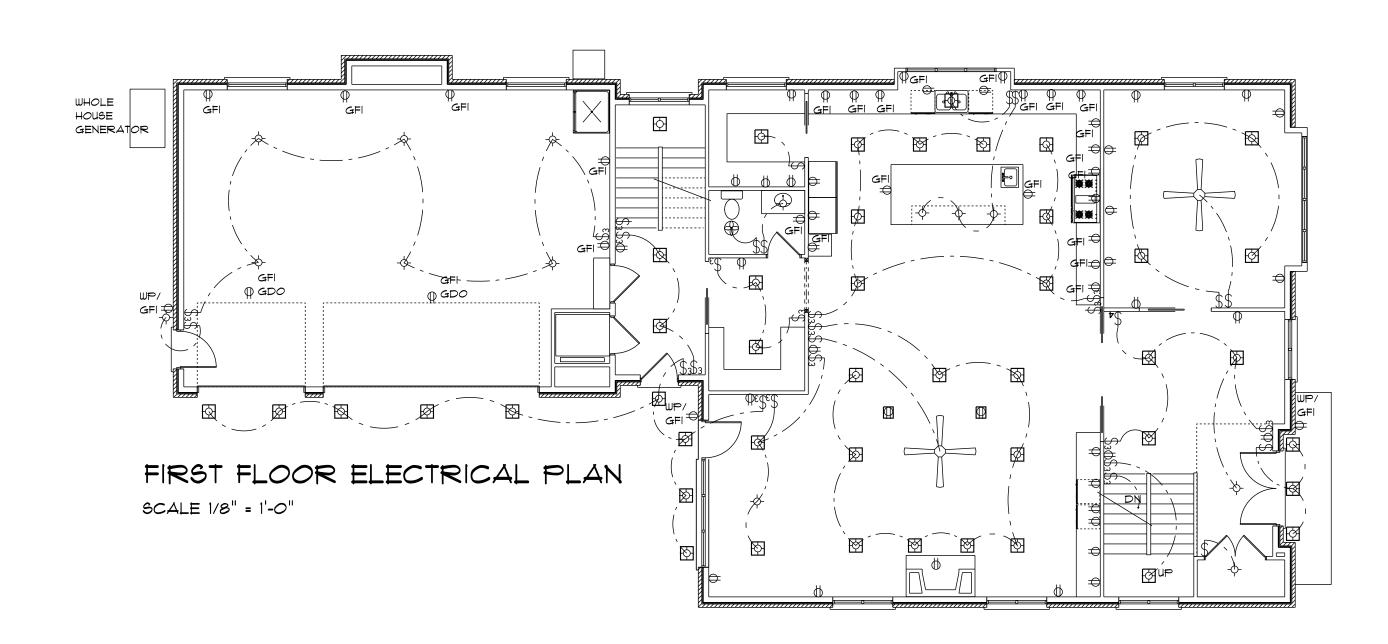


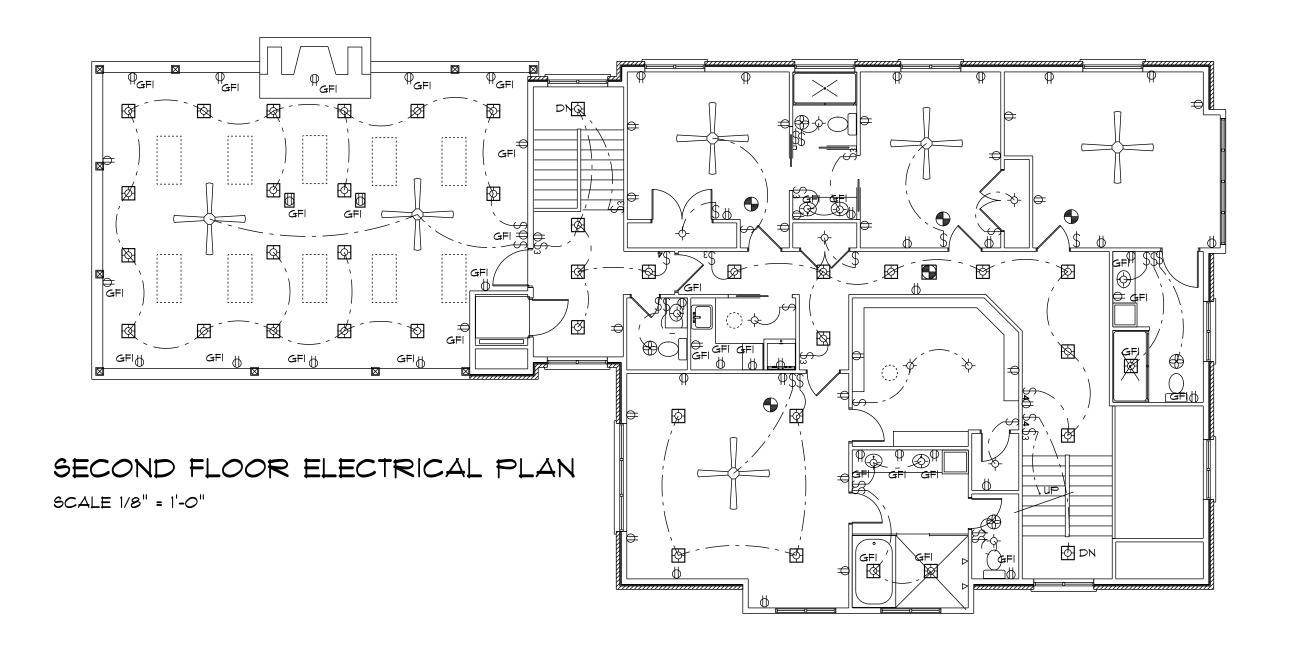


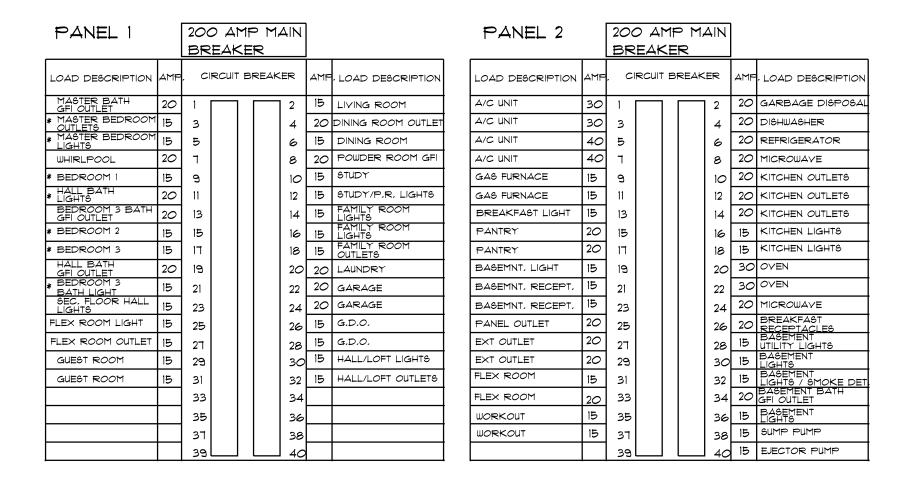


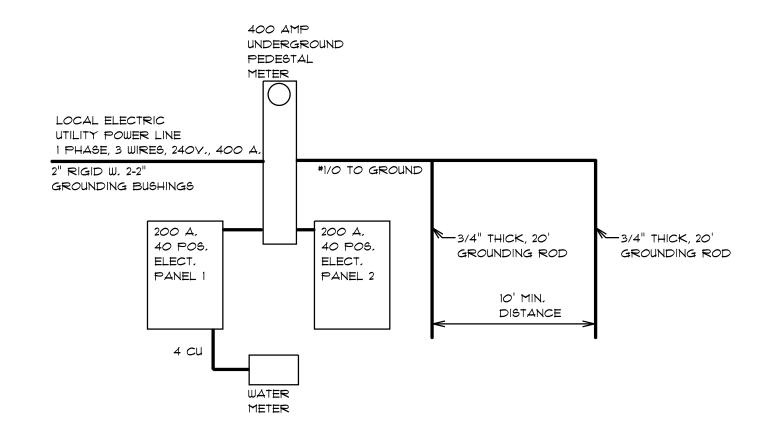
STAIR DETAIL

	,			
[- AT 1. 8 1 1 2 4 2 4 4 4 5 1. 8 1 2 4 2 4 4 4 5 1. 8 1 2 4 2 4 4 5 1. 8 1 2 4 2 4 5 4 5 1. 8 1 2 4 2 4 5 4 5 1 5 1 2 4 2 4 5 4 5 1 5 1 2 4 2 4 5 4 5 1 5 1 2 4 2 4 5 4 5 1 5 1 2 4 2 5 4 5 1 2 4 5 1 2 5		4; 5, 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>	A, 7, 7, 1, 7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
		CEILING FAN RATED BOX TYPICAL		
BASEMENT ELECTRICAL PLAN SCALE 1/8" = 1'-0"		GFI GFI		









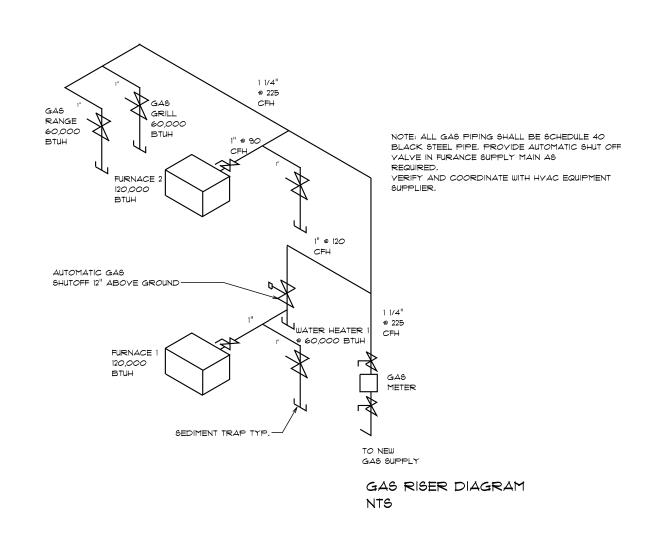
EXISTING ELECTRIC RISER DIAGRAM

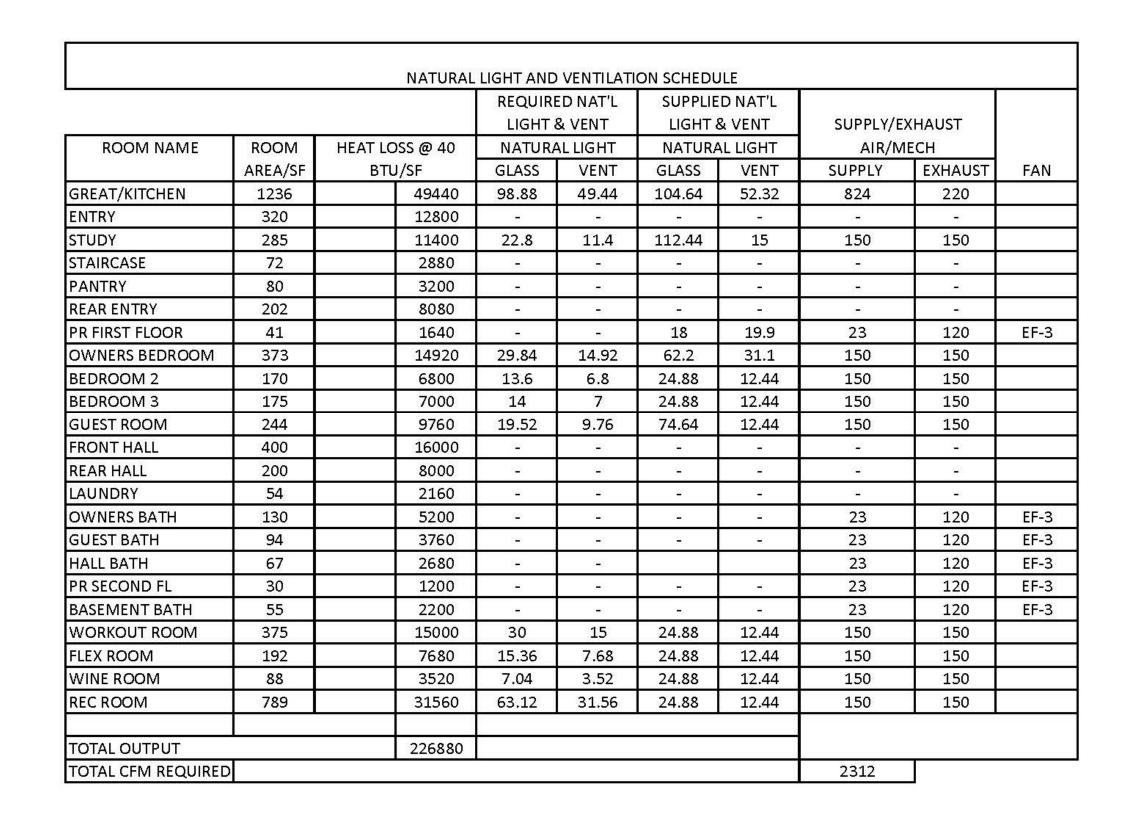
ELECTRICAL SYMBOLS

- ⊕ 150 CFM EXH, FAN
- -\$\to\$-LIGHT
- | FLOOR OUTLET YERIFY LOCATION
- HOT OUTLET GFI
- REC, CAN LIGHT
- \$ SWITCH
- ⊕ SMOKE DETECTOR /
- SMOKE & CARBON MONOXIDE DETECTOR
- ▽ PHONE / TY / DATA



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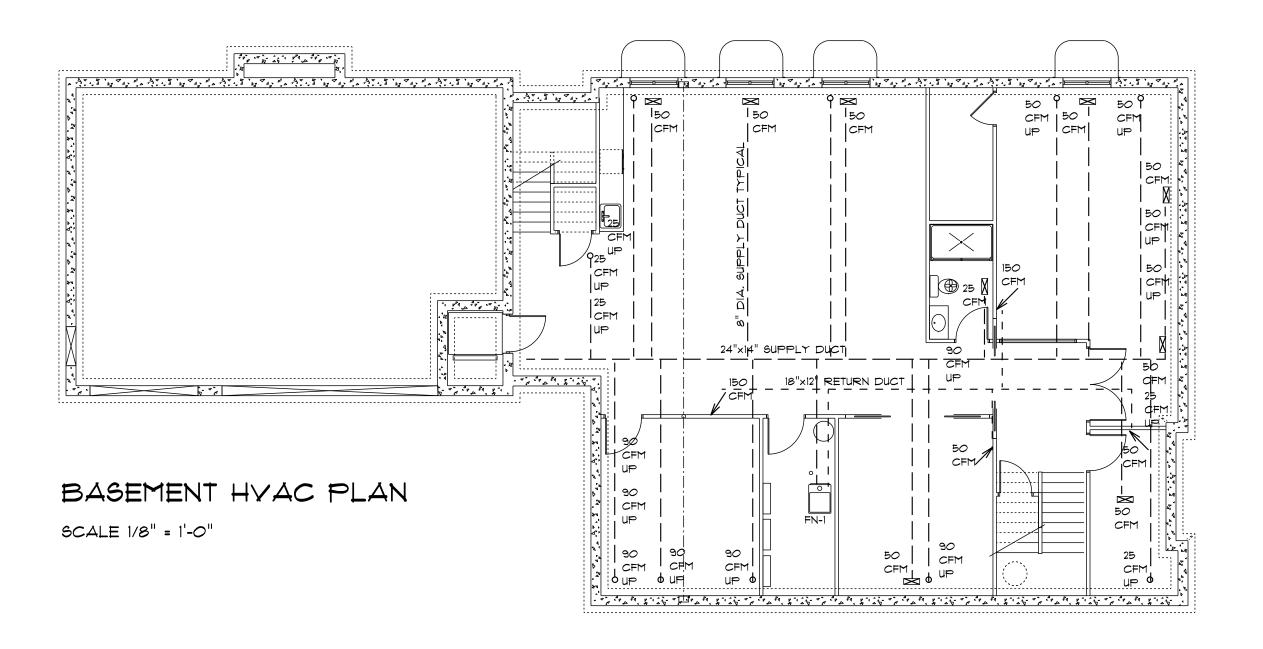


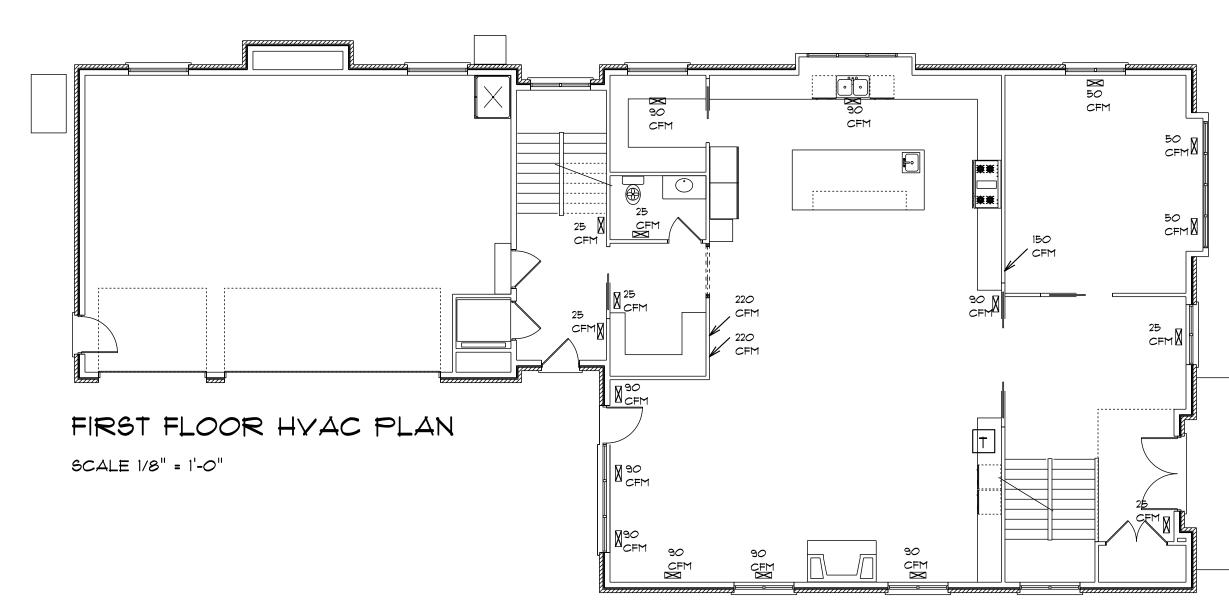
	HEATING															
							HEATING FLUE			COMBUSTION AIR			SERVICE			
					EFFICIENCY	AIR VOLUME		ОИТРИТ							REQUIREMENT	
TAG	TYPE	MFGR	SERIES	MODEL	(AFUE)	(CFM)	INPUT (MBTU)	(MBTU)	TYPE	SIZE	LOC	TYPE	SIZE	LOC	ELEC	GAS
FN-1	FURNACE	TRANE	XB90	TUD1D140A9601A	96.7	2200	120K	113K	PVC	2"	ROOF	PVC	2"	ROOF	110/15	1/2"
FN-2	FURNACE	TRANE	XB90	TUD1D140A9601A	96.7	2200	120K	113K	PVC	2"	ROOF	PVC	2"	ROOF	110/15	1/2"

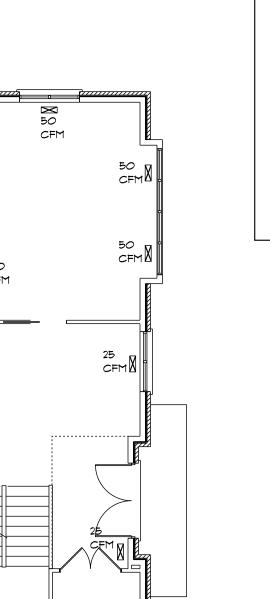
	COOLING															
	i i						COOLING					(ONDENSE	R	SER	VICE
					EFFICIENCY	AIR VOLUME		PCKG/RE LIQUI				AIR/WATE		VAPOR	REQUIR	EMENTS
TAG	TYPE	MFGR	SERIES	MODEL	(AFUE)	(CFM)	TONS	RFGT TYPE	RFGT LBS	MOTE	LINE	R	LOC	LINE	ELEC	GAS
AC-1	AIR COND	CARRIER	INFINITY 21	24.ANA.1.36.A.0.30	17.5	1200	5	R410A	12.8	REMOTE	3/8"	AIR	YARD	7/8"	220/12	

199					VENTILATIO	N							
							FLUE	0.00		INTAKE		SER	VICE
					AIR VOLUME							REQUIREMENTS	
TAG	TYPE	MFGR	SERIES	MODEL	(CFM)	TYPE	SIZE	LOC	TYPE	SIZE	LOC	ELEC	G/
EF-1	HOOD	BROAN	BEST EXTN'L	EB6	200	ALUM	6"	WALL	-	6-0	-	60	
EF-3	BATH	PANASONIC	WHISPER	FV-10NLF1	120	ALUM	4"	ROOF	-	(-)	_	120V	
								6		D		P	
ERV-1	CENTRAL	CARRIER	ERCVVLHU	1200	117-214	ALUM	6"	WALL	ALUM	6"	WALL	115/15	

HOT WATER HEATING															(me)	
					(.)			FLUE COMBUSTION AIR			FLUE			AIR	SER'	VICE.
												The state of the s			REQUIR	EMENTS
TAG	TYPE	MFGR	SERIES	MODEL	EFFC'Y	GPH @ +100	INPUT (MBTU)	1ST HR GALS	TYPE	SIZE	LOC	TYPE	SIZE	LOC	ELEC	GAS
WH-1	TANK	LOCHINVAR	SHIELD	SNR150-100	96%	175	150K	249	PVC	3"	ROOF	PVC	3"	ROOF	120/15	1/2"







HVAC

HYAC FLOOR / CEILING SUPPLY

HYAC WALL

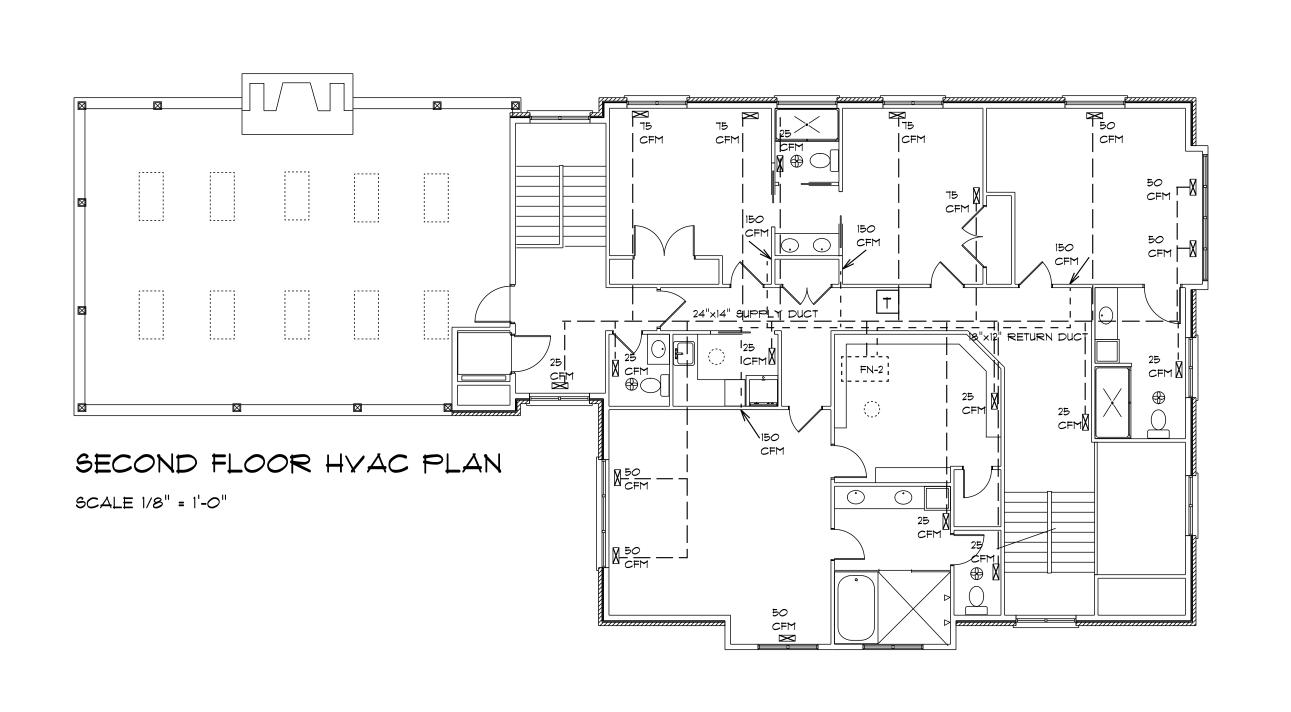
PROGRAMMABLE

THERMOSTAT

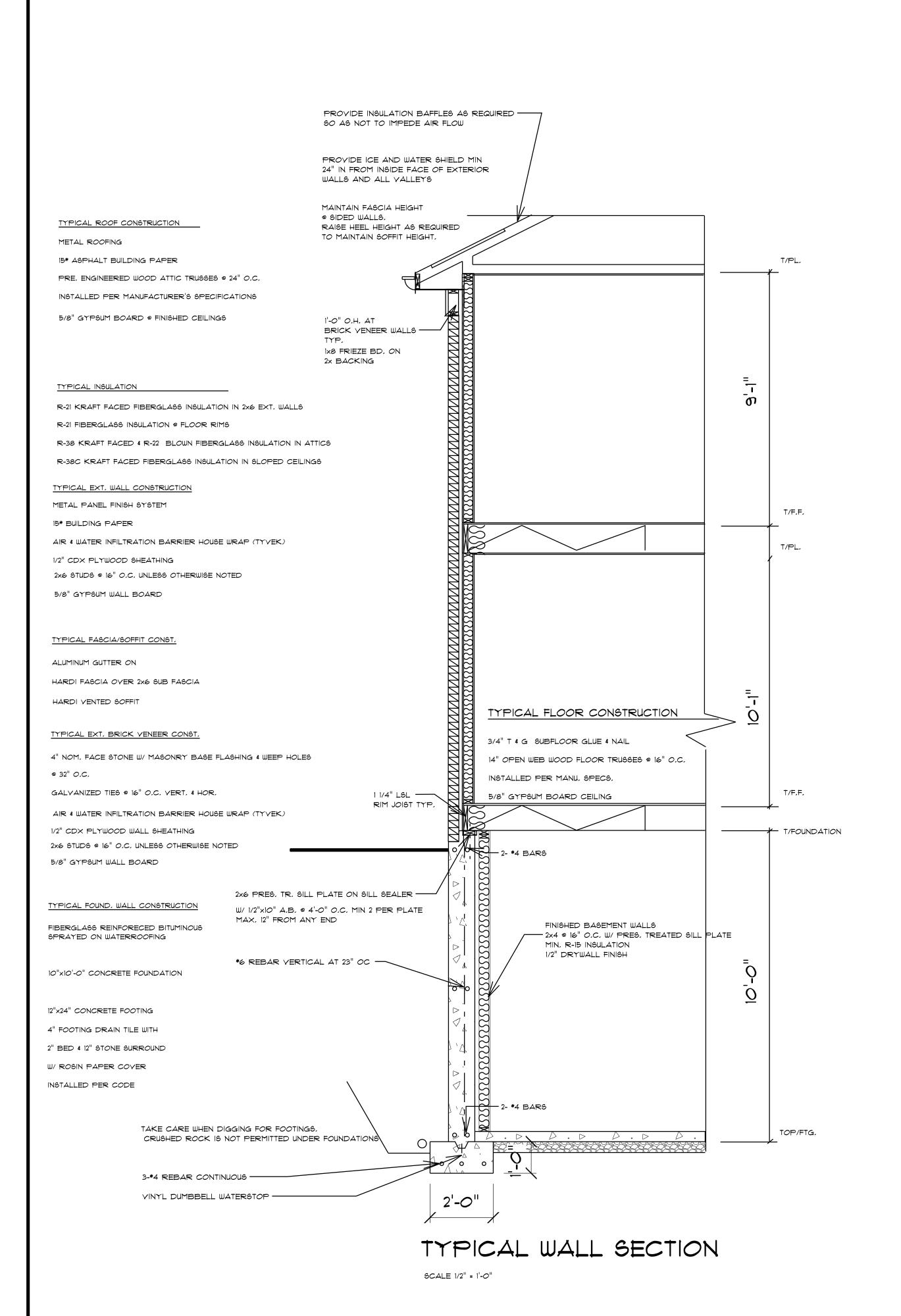
RETURN

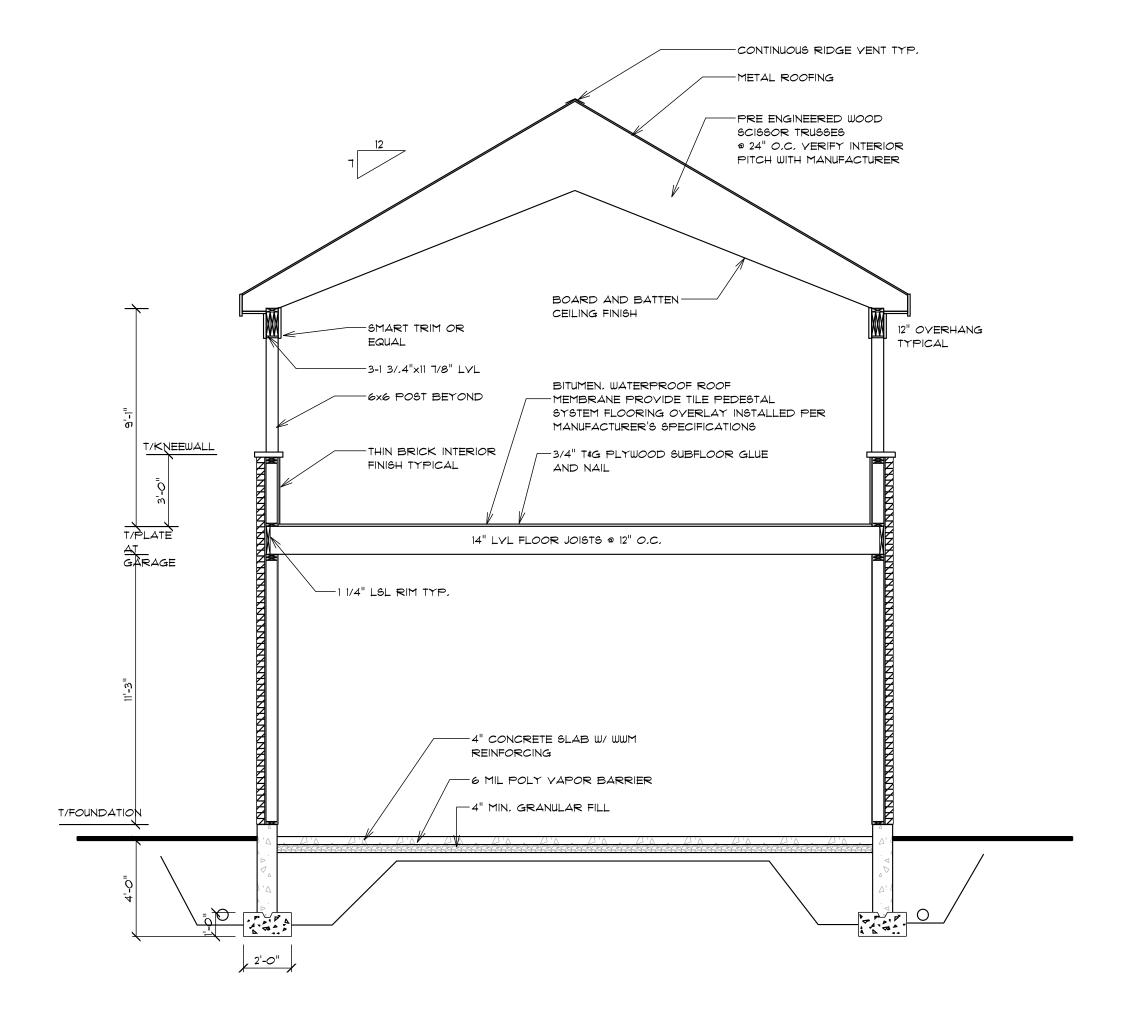
DIGITAL

SYMBOLS



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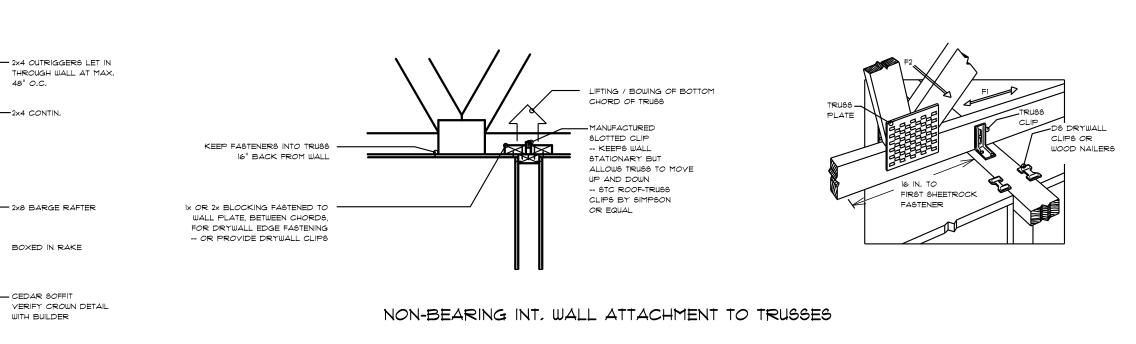




GARAGE SECTION SCALE 1/4" = 1'-0"

8-21-2020

TRUSS ROOF WITH GIRDER TRUSS



BOXED RAKE GABLE END TRUSS FRAMED

ROOF SHEATHING -

TRUSSES -

48" O.C.

- 2x8 BARGE RAFTER

BOXED IN RAKE

- CEDAR SOFFIT

WITH BUILDER

