

ABBREVIATIONS

APPROX.

ARCH

BLDG

ELEC

EXIST

EXP

FDN

GALV

GYP. BD.

FOOT

FOOTING FURRING

GALVANIZED

GYPSUM BOARD

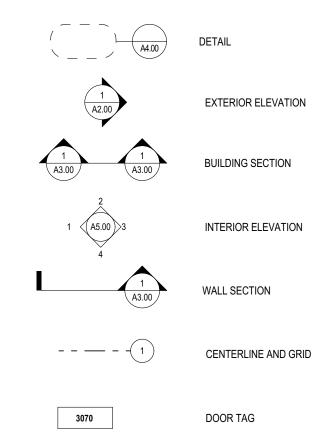
GENERAL CONTRACTOR

ADDREVIATIONS					
ABOVE AIR CONDITIONING ABOVE FINISHED FLOOR ALTERNATE	HC HDWR. HM HVAC COND.	HOLLOW CORE HARDWARE HOLLOW METAL HEATING, VENTILATION, AN			
AUTHORITY HAVING JURISDICTION ALUMINUM	HT	HEIGHT			
APPROXIMATELY ARCHITECTURAL	INSUL	INSULATION			
ASPHALT	JST	JOIST			
BOARD BUILDING BOTTOM OF	LAM LF	LAMINATED LINEAR FOOT			
BEARING BOTTOM BETWEEN	MAS MATL MAX. MECH	MASONRY MATERIAL MAXIMUM MECHANICAL			
CUBIC FEET CAST IN PLACE CONTROL JOINT CEILING CLEAR	MFG. MIN. MISC MO	MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING			
CONCRETE MASONRY UNIT	MTD MTL	MOUNTED METAL			
CLEAN OUT CONTINUOUS	NOM NTS	NOMINAL NOT TO SCALE			
DOUBLE DEPARTMENT DIAMETER DIMENSION	O/ O.C. OPN	OVER ON CENTER OPENING			
DOWN DOOR DOWNSPOUT DETAIL DRAWING	PREFAB PLYWD P. LAM PR PSI	PREFABRICATED PLYWOOD PLASTIC LAMINATE PAIR POUNDS PER SQUARE INCH			
EACH ELECTRICAL EQUAL EXHAUST	REF RM RO REQ	REFERENCE ROOM ROUGH OPENING REQUIRED			
EXISTING EXPOSED EXTERIOR	SC SECT SIM.	SOLID CORE SECTION SIMILAR			
FLOOR DRAIN FOUNDATION	STRUC	STRUCTURAL			
FINISHED	TYP	TYPICAL			

UNLESS NOTED OTHERWISE

WELDED WIRE FABRIC

DRAWING SYMBOLS



WINDOW TAG

PROJECT GENERAL NOTES

THE CONTRACTOR WILL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, PERMITS, TAXES, AND INSURANCE NECESSARY TO COMPLETE THE WORK INDICATED AND/ OR IMPLIED IN THE CONSTRUCTION DOCUMENTS UNLESS NOTED OTHERWISE AND WILL COORDINATE THE WORK RESPONSIBILITIES OF ALL SUBCONTRACTORS. ALL LABOR AND MATERIALS TO CARRY OUT FULLY THE INTENTIONS OF THE PLANS AND SPECIFICATIONS ARE PART OF THE CONTRACT, WHETHER OR NOT SPECIFICALLY DOCUMENTED.

ALL WORK WILL CONFORM TO THE CURRENT OHIO BUILDING, MECHANICAL & PLUMBING CODES, AS WELL AS THE CURRENT NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL OTHER APPLICABLE CITY CODES, LOCAL LAWS, AND AUTHORITIES HAVING JURISDICTION. CODE STANDARDS AND PUBLICATIONS OF PRIVATE AND PUBLIC BODIES MENTIONED WITHIN THE SPECIFICATIONS OR ON THE DRAWINGS, WILL BE CONSIDERED TO BE THOSE IN FORCE AT THE TIME OF THE CONTRACT AWARD

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONTROLLED INSPECTIONS AND ANY TECHNICAL TESTING REQUIRED FOR CONTROLLED INSPECTIONS AS STIPULATED BY ALL APPLICABLE CODES.

ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT WILL BE NEW AND FREE OF DEFECTS AND WILL BE SUPPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED, AND CONDITIONED AS DIRECTED BY THE RESPECTIVE MANUFACTURERS, UNLESS SPECIFIED OTHERWISE.

THE CONTRACTOR WILL NOTIFY THE ARCHITECT OF ANY ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES IN AND BETWEEN THE DRAWINGS AND THE SPECIFICATIONS PRIOR TO PROCEEDING WITH THE WORK. IF SUCH NOTICE IS NOT FURNISHED TO THE ARCHITECT, THE CONTRACTOR WILL BE DEEMED TO HAVE INSPECTED THE DRAWINGS AND SPECIFICATIONS AND TO HAVE FOUND THEM IN PROPER FORM FOR EXECUTION.

THE CONTRACTOR REPRESENTS THAT HE HAS HAD ADEQUATE ACCESS TO THE JOB SITE AND BUILDING AREA IN WHICH THE WORK IS TO BE PERFORMED, THAT HE HAS SATISFIED HIMSELF AT TO THE NATURE AND LOCATION OF WORK, INCLUDING ANY OBSTRUCTIONS, SCOPE OF WORK, ACTUAL LEVELS, THE EQUIPMENT AND FACILITIES NEEDED PRELIMINARY TO AND DURING THE EXECUTION OF THE WORK AND ALL OTHER MATTERS, WHICH CAN IN ANY WAY AFFECT THE WORK OR THE COST THEREOF UNDER THIS CONTRACT, AND THAT HE HAS STUDIED THE CONTRACT DOCUMENTS AND ALL OTHER DOCUMENTS PERTAINING TO THE INSTALLATION OF OTHER TRADES WHICH MAY INFLUENCE HIS WORK.

THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY, INCLUDING RESPONSIBILITY FOR ALL RELATED COSTS FOR ANY AND ALL WORK DONE WITHOUT THE APPROVAL OF THE ARCHITECT IF SUCH WORK IS IN CONFLICT WITH THE CONTRACT, DRAWINGS, OR SPECIFICATIONS.

THE OWNER WILL ESTABLISH THE LIMITS OF THE CONSTRUCTION SITE IN ADDITION TO ANY CONTRACT LIMIT LINES SHOWN IN THE DRAWINGS. THE CONTRACTOR WILL CONTINUE HIS OPERATIONS WITHIN THESE LIMITS, UNLESS UPON WRITTEN REQUEST AND REPLY, A VARIANCE IS AGREED TO BY THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR TRESPASS ON AND/ OR DAMAGE TO OTHER PROPERTY BY ANY OF HIS EMPLOYEES OR HIS SUBCONTRACTOR'S EMPLOYEES.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SAFE WORKING CONDITIONS AT THE SITE. THE ARCHITECT AND OWNER WILL NOT BE DEEMED TO HAVE ANY RESPONSIBILITY OR LIABILITY IN CONNECTION HEREWITH.

CONSTRUCTION OPERATIONS WILL NOT INVOLVE INTERRUPTION OF HEATING, WATER, ELECTRICAL, OR OTHER SERVICES TO ANY PORTION OF THE BUILDING OUTSIDE THE LIMITS OF THE CONSTRUCTION SITE DESCRIBED IN NOTE 9.

THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES CUASED BY DEFECTIVE OR ILL TIMED WORK AT NO ADDITIONAL COST TO THE OWNER.

NO SUBSTITUTIONS ARE PERMITTED EXCEPT WHERE THE TERM "APPROVED EQUAL" APPEARS. ALL SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ARCHITECT. THE CONTRACTOR IS TO SUBMIT SAMPLES OR CATALOG CUTS OF ALL VISIBLE MATERIALS AND EQUIPMENT FOR THE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.

BRAHAM RESIDENCE

PROJECT INFORMATION

CITY HUDSON SUMMIT COUNTY

PARCEL NO 3201335

ZONING ZONE 4 - HISTORIC RESIDENTIAL NEIGHBORHOOD .1915 ACRE

APPLICABLE CODEBUILDING: 2019 OHIO RESIDENTIAL BUILDING CODE ZONING: CITY OF HUDSON

NEW TWO STORY SINGLE FAMILY RESIDENCE

PROJECT AREA

FIRST FLOOR 1,400 SF <u>SECOND FLOOR</u> 1,351SF **TOTAL 2,751 SF**

Excess Impervious Area Runoff Storage Calculations

Existing Garage & walks to remain: 525 +38 + 127 =690 s.f. subtotal

Proposed Hardsurface: 1536.6 s.f. (house w/ porches) + 120 (front/rear conc. walks) +990 (prop. Drive)

= 2646.6 s.f. subtotal

Total Site Hardsurface = 690 + 2646.6 s.f. =3336.6 s.f.

Total lot area (0.1915 ac.) = 8341.6 s.f.

Proposed total impervious area = 3336.6/8341.6 = 40%

Max. allowable impervious area = 40% or 3336.6 s.f.

Therefore, no stormwater retention required.

NOTE: This assumes 100% runoff (conservative)

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ISSUE ID DATE
FOR PERMIT A 07/15/2025

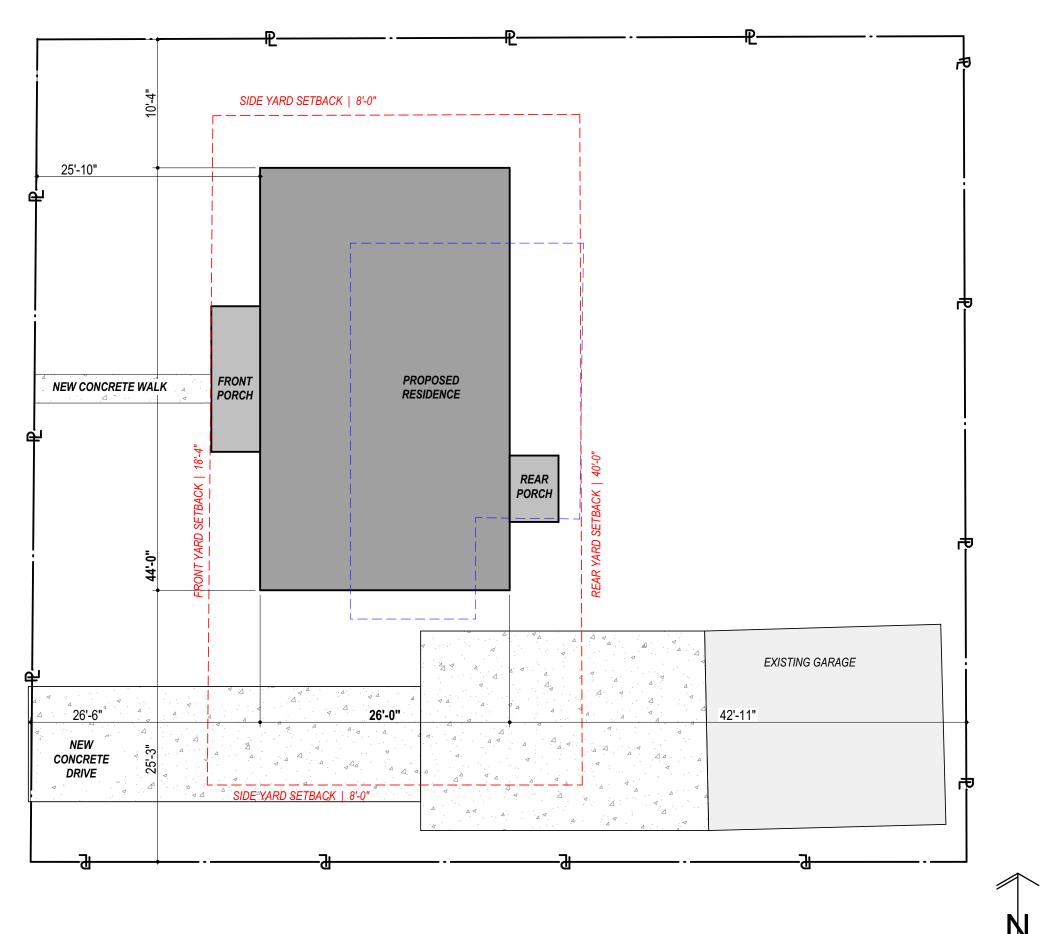
PROGRESS

NOT FOR CONSTRUCTION

8/18/2025

COVER SHEET





CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST OHIO RESIDENTIAL BUILDING CODE.

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING UPON COMPLETION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE, ENSURING SAFETY FOR ALL INVOLVED AND THE STRUCTURAL INTEGRITY DURING CONSTRUCTION. THIS RESPONSIBILITY EXTENDS TO ANY NECESSARY TEMPORARY BRACING OR SHORING. CONTRACTOR-SUPPLIED TEMPORARY SUPPORTS MUST REMAIN IN PLACE UNTIL THEY'RE REPLACED WITH PERMANENT STRUCTURES. THE TEMPORARY SUPPORTS MUST BE DESIGNED BY THE CONTRACTOR'S ENGINEER, WHO MUST BE REGISTERED AS A PROFESSIONAL ENGINEER IN OHIO.

THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. THE SUPPORTING SERVICES BY THE ENGINEER, WHETHER PERFORMED PRIOR TO, DURING, OR AFTER CONSTRUCTION, ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND PROJECT SPECIFICATIONS; BUT THEY DO NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSIDERED AS SUPERVISION OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.

PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ADJACENT STRUCTURE(S), FINISHES AND UTILITIES DURING CONSTRUCTION.

THIS SET OF DRAWING IS BASED ON THE PRESUMPTION THAT ALL EXISTING CONSTRUCTION OR CONSTRUCTION PREVIOUSLY DONE ON THIS PROJECT OR PART OF THE EXISTING STRUCTURE IS FIELD VERIFIED, WHICH INCLUDES ALL DIMENSIONS AND CONDITIONS.

REFERENCE THE ARCHITECTURAL MECHANICAL, ELECTRICAL AND ANY OTHER RELEVANT TRADES FOR USE WITH THIS SET OF DRAWINGS.

COMPLY FULLY WITH ALL CODES HAVING JURISDICTION OVER THE WORK. IF ANY WORK OR INDICATED ON THE DRAWINGS IS IN CONFLICT WITH ANY CODE HAVING JURISDICTION, BRING IT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.

WHERE NOT INDICATED OTHERWISE, USE THE LATEST EDITION OF ALL CITED CODES.

ALL DIMENSIONAL DISCREPANCIES BETWEEN CONTRACT DOCUMENTS OR BETWEEN MANUFACTURE DETAILS AND THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

SHOP DRAWINGS AND DEFERRED STRUCTURAL SUBMITTALS

SHOP DRAWINGS REQUIRED BY THE PROJECT SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER / ARCHITECT FOR REVIEW PRIOR TO FABRICATION / PROCUREMENT. DRAWINGS ARE REVIEWED BY THE ENGINEER FOR GENERAL CONFORMANCE TO THE DESIGN PRIOR TO SUBMISSION TO THE BUILDING DEPARTMENT FOR REVIEW. REGARDLESS OF THE ENGINEER'S REVIEW, THE CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE FOR COMPLETE AND SATISFACTORY SUBMITTAL AND CONFORMANCE TO THE CONTRACT DOCUMENTS. SHOP DRAWINGS WILL BE REJECTED FOR INCOMPLETENESS, LACK OF CALCULATIONS (IF REQUIRED), OR CHANGES WITHOUT PRE-APPROVAL. ALL STRUCTURAL CALCULATIONS AND DRAWINGS AS PART OF THE SHOP DRAWINGS SUBMITTAL SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN OHIO. FOR RE-SUBMITTALS, ALL CHANGES FROM THE PRIOR SUBMITTAL SHALL BE TIGHTLY ENCLOSED BY A "CLOUD" SO AS TO INDICATE ONLY THOSE AREAS CHANGED.

SLAB ON GRADE AND FOUNDATION SUB-GRADE SOIL PREPARATION

ALL ORGANIC, DELETERIOUS, CONTAMINATED OR OTHERWISE OBJECTIONABLE MATERIALS ENCOUNTERED ARE TO BE REMOVED FROM STRUCTURAL AREAS OF THE SITE.

SUBGRADE SECTORS WHICH WILL EXIST IN CUT AND THOSE WHICH ARE TO SUPPORT STRUCTURES ARE TO BE PROOF ROLLED OR COMPACTED WITH A PLATE VIBRATOR. AREAS EXHIBITING INSTABILITY ARE TO BE UNDERCUT AND BACKFILLED ON A LIFT-BY-LIFT BASIS WITH EACH LIFT COMPACTED. LIFTS SHALL NOT EXCEED MORE THAN 8" THICKNESS. IF UNSTABLE SUBGRADE SECTORS CANNOT BE STABILIZED BY EXCAVATION AND RECOMPACTION, THEN APPROVED GRAVEL OR SIMILAR COARSE AGGREGATE MATERIALS SHALL USED. EACH LIFT IS TO BE COMPACTED TO 98% DENSITY BY ASTM D-698.

FOUNDATIONS

ALLOWABLE SOIL BEARING PRESSURE = 2,000 PSF (PRESUMED)

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE TOPSOIL AND EXCAVATION DEPTH; INSPECT SUBSOIL EXPOSED DURING EXCAVATION, GRADING, AND OTHER EXCAVATION OPERATIONS; APPROVE FILL MATERIALS, PERFORM DENSITY TESTS OF FILLS TO VERIFY PLACEMENT PER SPECIFICATION; INSPECT FOUNDATION BEARING SURFACES AND VERIFY ASSUMED BEARING CAPACITIES.

CONTRACTOR SHALL MEET ALL LOCAL JURISDICTION REQUIREMENTS FOR FOUNDATION INSPECTIONS.

INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES, WHICH WILL RESULT IN DETERIORATION OF BEARING FORMATIONS, SHALL BE PREVENTED. FOOTINGS SHALL BE PLACED IMMEDIATELY FOLLOWING FOOTING EXCAVATIONS AND BEARING SURFACE INSPECTION.

ALL FILL MATERIALS SHALL BE FREE OF ORGANIC CONTAMINATIONS AND OTHER DELETERIOUS MATTER.

NOTIFY ARCHITECT OF ANY UNUSUAL SOIL CONDITIONS. IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, A SOILS INVESTIGATION REPORT MAY BE REQUIRED.

CONCRETE

REINFORCING BARS SHALL BE NEW BILLET STEEL BARS CONFORMING TO ASTM A-615. GRADE 60 (60,000 PSI YIELD). WELDED WIRE MESH REINFORCING SHALL CONFORM TO ASTM A-185. ALL CONCRETE CONSTRUCTION, DETAILING, FABRICATING, AND PLACING SHALL CONFORM TO ACI 301 & 318, LATEST EDITION, UNLESS NOTED OTHERWISE. NO TACK WELDING OF REINFORCING IN THE FIELD WILL BE PERMITTED.

MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS:
FOUNDATIONS = 3,000 PSI
SLAB ON GRADE = 4,000 PSI

LAP REINFORCING BARS THE FOLLOWING LENGTHS #4 = 25", #5 = 31", #6 = 40"

 ${\tt GROUND\ GRANULATED\ BLAST\ FURNACE\ SLAG\ AND\ CALCIUM\ CHLORIDE\ IS\ NOT\ PERMITTED.}$

AIR ENTRAINMENT: 6% (± 1%) IN ALL EXTERIOR EXPOSED CONCRETE.

CURING: CONTRACTOR TO USE LIQUID SPRAYED CURING AGENT. VERIFY CURING AGENT IS ACCEPTABLE TO BE USED WITH FLOORING, IF APPLICABLE

REINFORCING COVERS SHALL BE TYPICALLY 2" AND IF CAST AGAINST EARTH SHALL BE 3". EXCLUDES SLABS WHERE THE REINFORCING SHALL BE CENTERED UNO.

POTABLE WATER SHALL BE USED IN ANY MIX DONE ON SITE.

CONTRACTOR SHALL SUMMIT CONCRETE MIX FOR REVIEW AND APPROVAL.

STRUCTURAL STEEL

DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE LATEST AISC SPECIFICATIONS.

STRUCTURAL STEEL: PLATES, ANGLES, CHANNELS = A36 (Fy=36 KSI)
WIDE FLANGE SHAPES = A992 GR. 50 (Fy=50 KSI)
TUBES = A500 GR. C (Fy=46 KSI)

PIPES = A53 GR. B (Fy=35 KSI)

FIELD CONNECTIONS SHALL BE BOLTED, BEARING TYPE UNLESS NOTED OTHERWISE, ASTM A325, F3125, GR325 HIGH STRENGTH BOLTS. ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH THE LATEST AWS SPECIFICATIONS.

GENERAL CONTRACTOR SHALL VERIFY ALL STRUCTURAL BEAM LOCATIONS AND LENGTHS, TAKING CAREFUL CONSIDERATION OF THE CLEARANCES OF THE BEAMS AND NOTIFY ARCHITECT IF ISSUES ARE EXPECTED TO BE ENCOUNTERED.

MASONRY

MASONRY SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530/ASCE 5/TMS 402) AND "SPECIFICATION FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602).

BRICK AND CONCRETE MASONRY CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF THE BRICK INDUSTRY ASSOCIATION (BIA) AND THE NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND MINIMUM REQUIREMENTS ESTABLISHED IN THE APPLICABLE BUILDING CODE.

MASONRY SHALL HAVE A COMPRESSIVE STRENGTH OF F'M = 2,000 PSI BASED ON UNIT STRENGTH METHOD, UNLESS OTHERWISE NOTED.

CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90.

MORTAR FOR STRUCTURAL MASONRY SHALL BE TYPE S, CONFORMING TO ASTM C270, AND BE EITHER PORTLAND CEMENT, HYDRATED LIME, OR MORTAR CEMENT. MASONRY CEMENT MORTAR IS NOT ACCEPTABLE FOR STRUCTURAL MASONRY.

GROUT TO FILL CORES SHALL BE ASTM C476, COARSE GROUT (3/8" MAXIMUM AGGREGATE) WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI IN 28 DAYS.

REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A496, 70 KSI YIELD STRENGTH.

CONCRETE MASONRY UNITS SHALL HAVE 9 GA GALVANIZED HORIZONTAL JOINT REINFORCEMENT AT 16" OC (LADDER OR TRUSS). LAP 8" MINIMUM.

CORES WITH REINFORCEMENT SHALL BE FILLED WITH GROUT AND CONSOLIDATED IN PLACE BY VIBRATION.

PLACE REINFORCING BARS BEFORE GROUTING. PROPERLY SECURE REINFORCING BARS AT 4'-0" ON CENTER VERTICALLY TO MAINTAIN THE POSITIONS INDICATED ON THE DRAWINGS. BARS TO BE LOCATED IN CENTER OF CELLS UNLESS OTHERWISE NOTED.

MORTAR PROTRUSIONS, EXTENDING INTO CELLS TO BE REINFORCED, SHALL BE REMOVED.

LAY MASONRY UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS.

BED WEBS IN MORTAR IN STARTING COURSE ON FOOTING AND IN ALL COURSES OF COLUMNS, AND AT CELLS TO BE REINFORCED. PROVIDE 16" OF SOLID MASONRY UNDER WALL BEARING BEAMS AND JOIST GIRDERS UNLESS NOTED OTHERWISE.

CORNERS TO BE TIED BY MASONRY BOND.

GROUT CORES SOLID ONE COURSE BELOW ANY CHANGE IN WALL THICKNESS.

CMU SHALL BE TEMPORARILY BRACED DURING CONSTRUCTION IN ACCORDANCE WITH THE GOVERNING BUILDING CODE FOR LATERAL DESIGN LOADS UNTIL PERMANENT RESTRAINTS HAVE BEEN INSTALLED. TEMPORARY BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIRS RESULTING FROM IMPROPER OR INSUFFICIENT BRACING.

WOOD FRAMING

CONVENTIONAL LUMBER FRAMING

DETAIL, FABRICATE, AND ERECT STRUCTURAL WOOD IN ACCORDANCE WITH THE LATEST VERSION OF THE OHIO RESIDENTIAL BUILDING CODE, NDS (NATIONAL DESIGN SPECIFICATION), ANSI / AWC WFCM (WOOD FRAMED CONSTRUCTION MANUAL), AITC (AMERICAN INSTITUTE OF TIMBER CONSTRUCTION), AND THE LOCAL JURISDICTION HAVING AUTHORITY AND THESE DRAWINGS.

STRESS GRADE OF CONVENTIONAL LUMBER SHALL BE AS FOLLOWS:
IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.

WOOD MEMBERS SHALL BE SPRUCE PINE FIR PER NDS, VISUALLY GRADED DIMENSION LUMBER, UNLESS NOTED OTHERWISE. ALL LUMBER SHALL BEAR THE GRADE STAMP OF AN APPROVED TESTING AGENCY, EXCEPT EXPOSED LUMBER AT VISIBLE AREAS.

SPRUCE PINE FIR (SPF):

GRADE:

BENDING Fb = 875 psi

No. 2 OR BETTER

TENSILE Ft = 450 psi

SHEAR Fv = 135 psi

COMPRESSIVE (^ TO GRAIN) Fc = 425 psi

COMPRESSIVE (" TO GRAIN) Fc = 1,150 psi

MODULUS OF ELASTICITY E = 1,400 ksi

MOISTURE CONTENT 19% MAX

MAXIMUM MOISTURE CONTENT FOR ALL WOOD STRUCTURAL MEMBERS SHALL NOT EXCEED 19% PROVIDE DIAGONAL BRIDGING OR FULL DEPTH WOOD BLOCKING AT 8'-0" ON CENTER MAXIMUM SPACING.

SCHEDULES FOR WOOD CONNECTORS ARE BASED ON PRODUCTS MANUFACTURED BY SIMPSON STRONG-TIE. ALL CONNECTIONS SHALL BE INSTALLED TO THE MINIMUM REQUIREMENTS OF SIMPSON, UNLESS NOTED OTHERWISE.

ALL BEAMS AND POSTS SHALL BE SUPPORTED LATERALLY IN BOTH HORIZONTAL DIRECTIONS AT BEARING POINTS. BEARING ENDS OF WOOD BEAMS SHALL HAVE A MINIMUM OF 1 STUD/POST (JACK STUD) PER 2" WIDTH OF BEAM EXCEPT FOR SPECIFICALLY DESCRIBED IN THE DOOR AND WINDOW HEADER SCHEDULE. ROUND UP TO WHOLE STUD/ POST. MULTI-PLY BEAMS REQUIRE A MINIMUM OF 3" BEARING EACH SIDE UNLESS NOTED OTHERWISE IN THE WINDOW AND DOOR SCHEDULE OR IN THESE DRAWINGS.

MULTI-PLY BEAMS CONSTRUCTED OF CONVENTIONAL LUMBER SHALL BE CONNECTED TO EACH OTHER USING 4-16d NAILS AT 12" ON CENTER IN SPACED PATTERN OR ZIG-ZAG PATTERN. EACH PLY MUST BE FASTENED TO EACH OTHER AND FASTENERS MUST PENETRATE FULLY THROUGH EACH LAYER.

FRAMING CONNECTIONS SHALL BE MANUFACTURED BY SIMPSON AND SHALL MEET THE REQUIREMENTS OF THESE DRAWINGS. ALL SUBSTITUTIONS OR OTHERWISE NOT SPECIFICALLY DETAILED MUST BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL. LUMBER SUPPLIER TO FURNISH APPROPRIATE CONNECTIONS AS SPECIFIED HEREIN.

ALL FRAMING CONNECTIONS SHALL BE HOT DIPPED GALVANIZED STEEL UNLESS NOTED OTHER WISE WITHIN THESE DRAWINGS. BOLT HOLES SHALL BE 1 16" GREATER THAN THE BOLT DIAMETER AND WASHERS ARE REQUIRED ON ALL FAYING SURFACES IN CONTACT WITH WOOD. (BOTH SIDES)

ALL EXTERIOR EXPOSED LUMBER SHALL BE CONSTRUCTED USING PRESSURE TREATED LUMBER AND MUST MEET THE ENVIRONMENTAL REQUIREMENTS OF THE LOCAL JURISDICTION HAVING AUTHORITY. FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER OR FIRE RETARDANT LUMBER MUST BE APPROVED FOR USE WITH PRESSURE TREATED LUMBER BY THE MANUFACTURE OR BE GALVANIZED OR STAINLESS STEEL (300 SERIES).

WOOD MAY SHRINK AFTER CONSTRUCTION IS COMPLETED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR WOOD SHRINKAGE ISSUE AND IS REQUIRED TO BRING UP ANY POTENTIAL OR PROBABLE ISSUES WITH THE ARCHITECT. NAILS ARE TO BE COMMON AND THE SCHEDULE OF NAILS PER CONNECTION SHALL MEET THE OHIO RESIDENTIAL BUILDING CODE PRESCRIPTIVE REQUIREMENTS OR THE AWC WFCM SPECIFICATIONS. CONNECTIONS TO SIMPSON CONNECTIONS SHALL BE BY THE MANUFACTURER.

WOOD SILLS ON CONCRETE OR MASONRY WALLS MUST BE SEPARATED BY SILL PLATE GASKET OR SILL SEAL CONTINUOUSLY. WOOD SILLS ARE TO BE ANCHORED TO THE STRUCTURAL WALLS / SLAB BELOW USING 1/2" Ø x 18" A307 OR A36 (L-BOLTS) AT 48" ON CENTER AND BE EMBED 12" MINIMUM.

ALL LAP SPLICES TO BE 3' LONG WITH A MINIMUM OF (8) 16d NAILS THROUGH LAP.

ROOF RAFTERS

PROVIDE BLOCKING OR BRIDGING AT 8'-0" ON CENTER TYPICAL.

PROVIDE BLOCKING AT RIDGE IF RIDGE IS NOT TIGHT TO BOTTOM OF DECK.

RAFTER TOES ARE TO HAVE A CONTINUOUS RIM ROAD OF THE SAME SIZE AS THE RAFTER.

RAFTERS ARE TO BE CUT NEATLY WITH ACCURATE ANGLES (+/- 1°), AND OVER CUTTING AT BIRD'S MOUTHS OR NOTCHES IS NOT PERMITTED.

FULL DEPTH BLOCK

END GABLE BRACING:

FULL DEPTH BLOCKING IS REQUIRED BETWEEN RAFTERS AT 3 EQUAL SPACES OR 4 FT MAX SPACING FOR THE FIRST 3 JOIST SPACES. ADDITIONAL BLOCKING IS ALSO REQUIRED FOR 4 ADJACENT JOIST SPACES CENTERED ON EACH SUPPORT POST/ COLUMN OR BEARING WALL.

MICROLLAM LVL'S

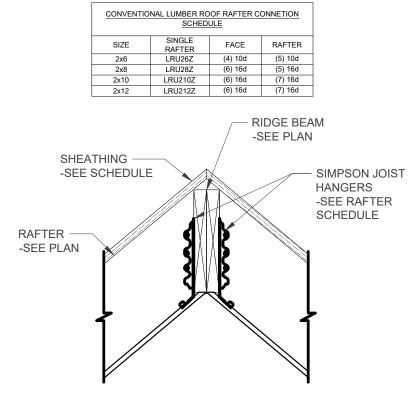
MICROLLAM LVL'S (LAMINATED VENEER LUMBER) AND LSL (LAMINATED STRAND LUMBER) SHALL BE BY WEYERHAEUSER (ICC-ESR 1387) OR APPROVED EQUAL.

ALL MICROLLAM LVL'S SHALL BE GRADE 2.0E WITH THE FOLLOWING MATERIAL SPECIFICATIONS:

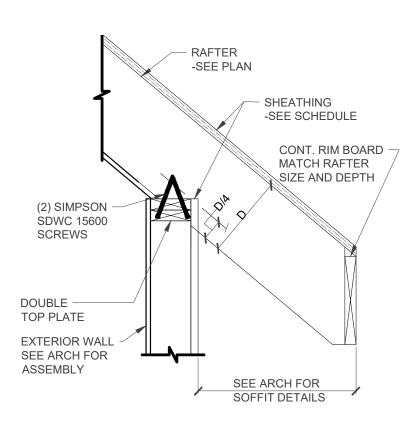
2.0E MICROLLAM LVL BENDING Fb = 2,600 psi TENSILE Ft = 1,555 psi SHEAR Fv = 285 psi COMPRESSIVE ($^{\circ}$ TO GRAIN) Fc = 750 psi COMPRESSIVE ($^{\circ}$ TO GRAIN) Fc = 2,510 psi MODULUS OF ELASTICITY E = 2,000 ksi

DO NOT NOTCH, PLACE HOLES IN OR MODIFY THE MEMBERS IN ANYWAY EXCEPT CUTTING SQUARE CUTS TO FIT THE MEMBER.

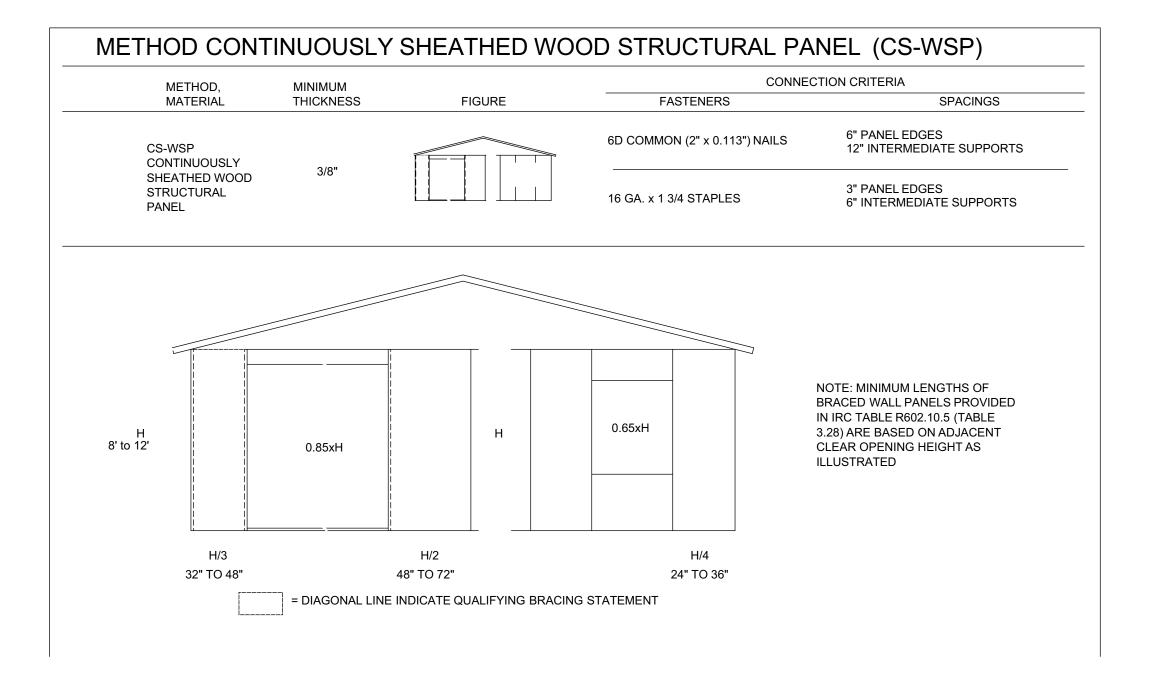
ALL MICROLLAMS SHALL BE IDENTIFIABLE BY A STAMP INDICATING THE PRODUCT TYPE, GRADE AND ICC NUMBER. THE CONTRACTOR SHALL FOLLOW ALL OF THE MANUFACTURES INSTRUCTIONS FOR STORAGE AND INSTALLATION.



RAFTER HANGER SCHEDULE



RAFTER BEARING DETAIL





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PROJECT TEAM:

HARA ARCHITECTS

STRUCTURAL

BRAHAM RESIDENCE

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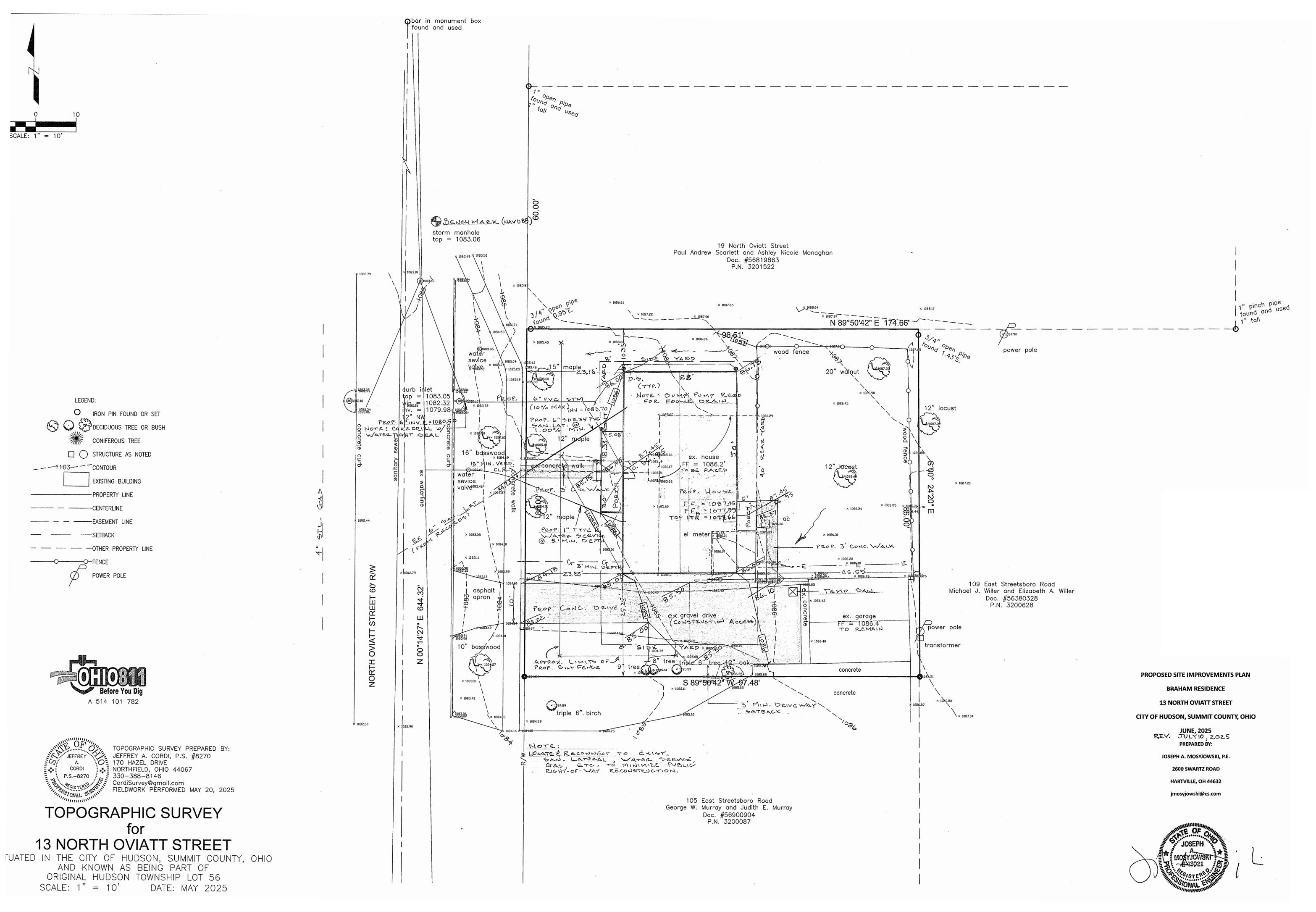
PROGRESS

NOT FOR CONSTRUCTION

8/18/2025

GENERAL NOTES

G101





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SITE PLAN

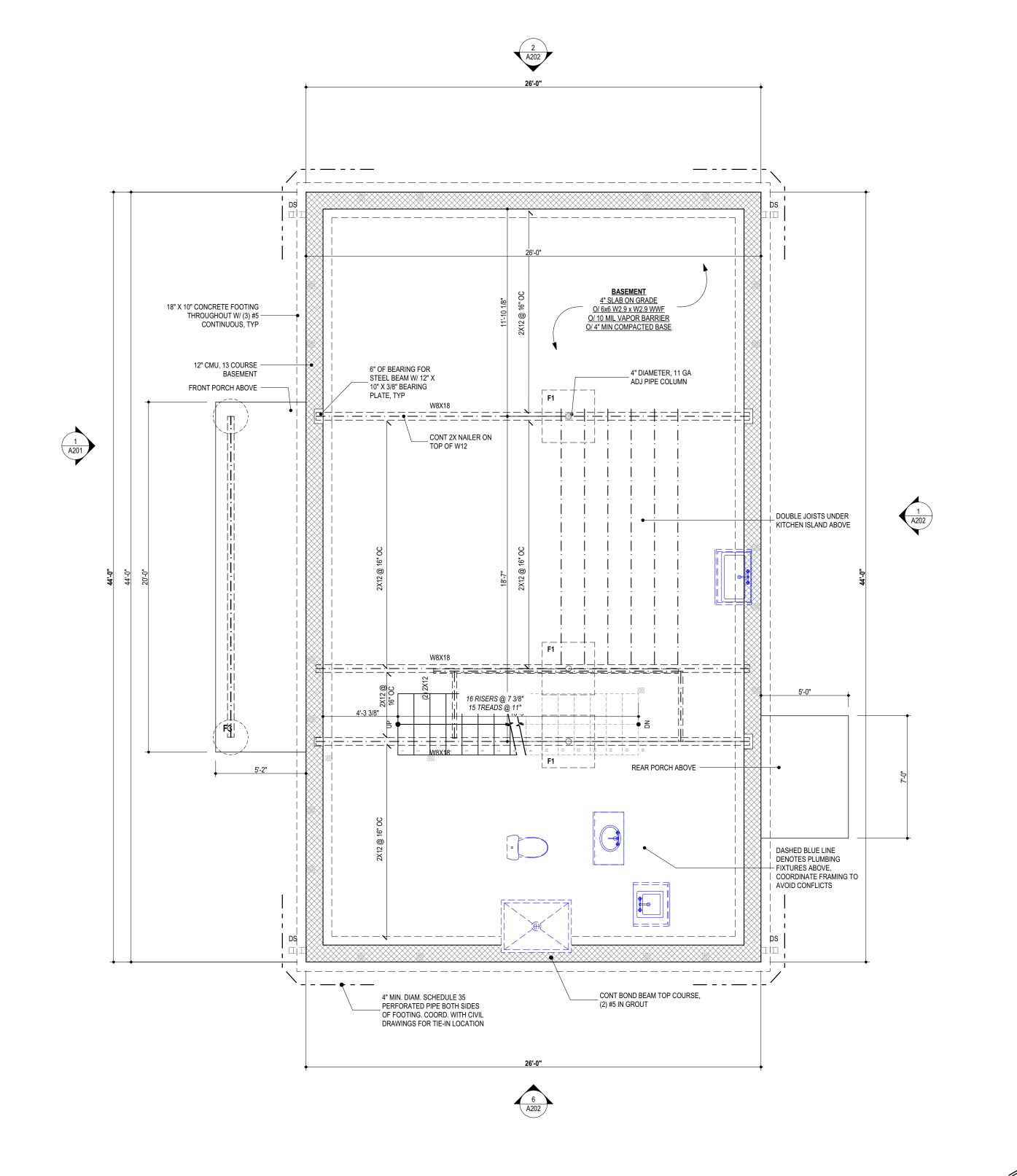
C100



PROJECT TEAM:

ARCHITECT HARA ARCHITECTS

STRUCTURAL I A LEWIN



FOUNDATION PLAN GENERAL NOTES

CONTRACTOR TO EXTEND ALL POSTS DOWN TO SOUND FOUNDATION, INSTALL FULL DEPTH SOLID BLOCKING AT ALL POINT LOAD LOCATIONS

ALL FOOTINGS TO EXTEND DOWN TO FROST LEVEL MIN.

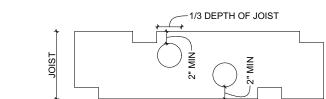
COORDINATE EXACT LOCATIONS OF FLOOR DRAIN WITH MECH.CONTRACTOR

BLOCK WEBS SOLID AT BEARING WALL LOCATIONS ABOVE

INDICATES LOCATION OF POINT LOAD ABOVE

[] INDICATES LOCATION OF BEARING WALL ABOVE

FOAM INSULATION (BOARD OR SPRAY) MUST BE CLASS ONE FIRE RATED OR COVERED BY A THERMAL BARRIER (I.E. GYPSUM BOARD, INTUMESCENT COATING)



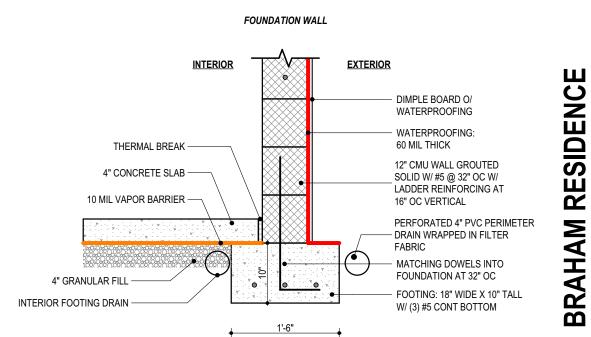
SECTION 502.8

NOTCHES IN THE TOP OR BOTTOM OF JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH OF THE JOIST AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. WHERE JOISTS ARE NOTCHED ON THE ENDS FOR A LEDGER, THE NOTCH SHALL NOT EXCEED ONE-FOURTH THE JOISTS DEPTH. CANTILEVERED JOISTS SHALL NOT BE NOTCHED UNLESS THE REDUCED SECTION PROPERTIES AND LUMBER DEFECTS ARE CONSIDERED IN THE DESIGN. HOLES DRILLED OR BORED IN JOISTS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OR THE JOISTS AND THEIR DIAMETER SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.

SECTION 602.6

ANY STUD IN AN EXTERIOR BEARING PARTITION MAY BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25% OF ITS WIDTH. STUDS IN NON-BEARING PARTITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED 40% OF A SINGLE STUD WIDTH. ANY STUD MAY BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLES IS NO GREATER THAN 40% OF THE STUD WIDTH, THE EDGE OF THE HOLE IS NO CLOSER THAN 5/8 INCH TO THE EDGE OF THE STUD, AND THE HOLE IS NOT LOCATED IN THE SAME SECTION AS A CUT OR NOTCH.

FOUNDATION PLAN SECTION



COLUMN & FOOTING SCHEDULE
ALL COLUMNS TO HAVE 1/2" CAP BEARING PLATES W/ (4) 5/8" BOLTS IN

F1 3'-0" x 3'-0" x 12" W/ (5) #5 TOP & BOTTOM EACH WAY 4" STANDARD ADJ STEEL PIPE COLUMN

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FOUNDATION PLAN

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FOUNDATION PLAN



PROJECT TEAM:

ARCHITECT HARA ARCHITECTS

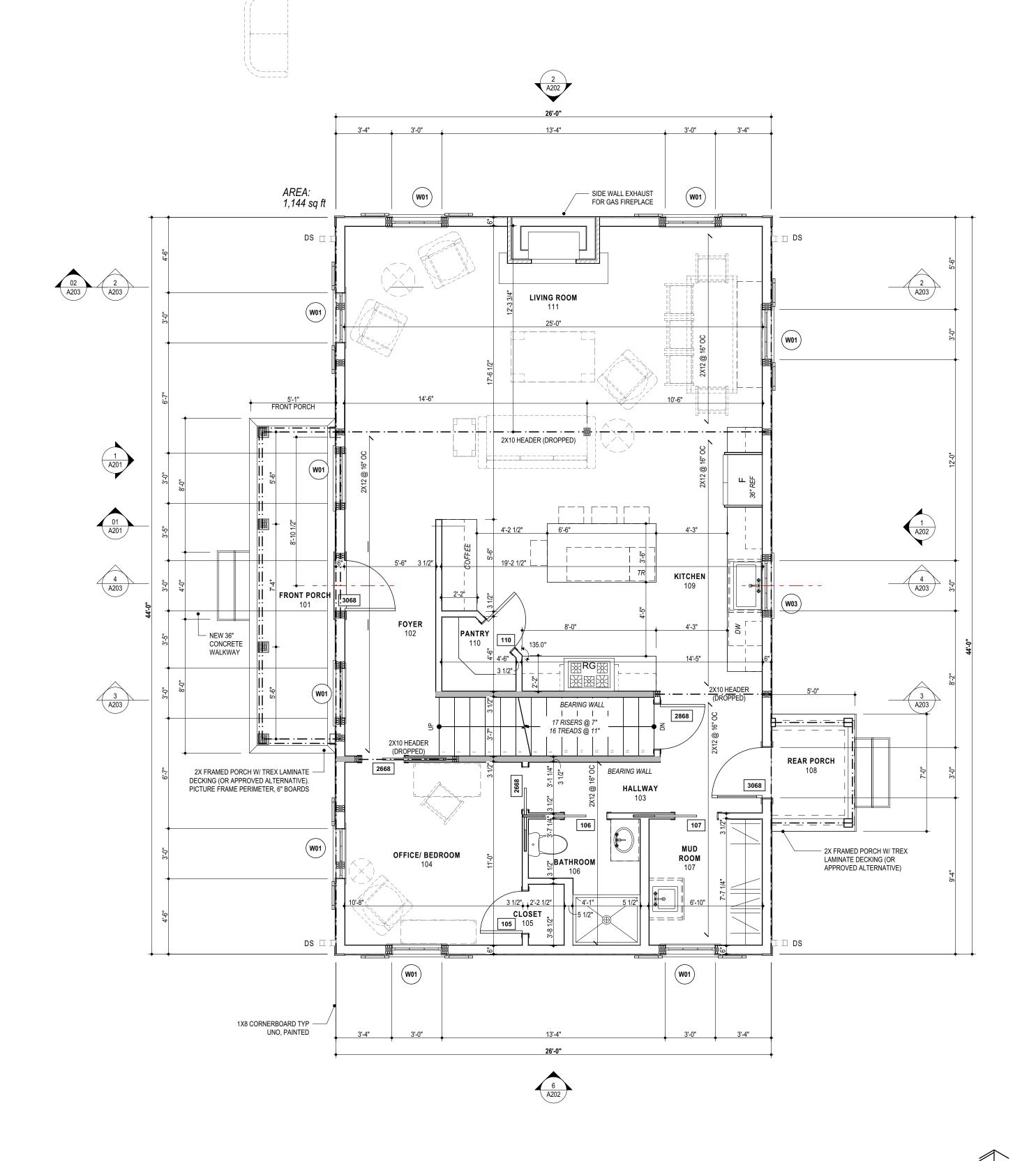
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FIRST FLOOR PLAN



FLOOR PLAN GENERAL NOTES

VERIFY DIMENSIONS AND CONDITIONS IN FIELD. WHEN DIMENSIONS ALL INTERIOR TRIM TO BE POPLAR OR APPROVED EQUAL. AND/OR CONDITIONS AS INDICATED ON DRAWINGS CONFLICT WITH COORDINATE WITH INTERIOR ELEVATIONS AND MILLWORK WOOD HEADERS (U.N.O.) ACTUAL, CONTACT ARCHITECT FOR CLARIFICATION DRAWINGS FOR SELECT TYPES AND PROFILES.

PROVIDE SOUND DEADENING INSULATION AROUND BEDROOMS, ALL MILLWORK TO BE PER DRAWINGS. BATHROOMS, MECHANICAL ROOMS, AND PLUMBING STACKS

FIRST FLOOR PLAN

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

LOAD LOCATIONS.

BLOCK WEBS SOLID AT BEARING WALL LOCATIONS ABOVE CONTRACTOR TO EXTEND ALL POSTS DOWN TO SOUND FOUNDATION, INSTALL FULL DEPTH SOLID BLOCKING AT ALL POINT TCD = 10 PSF

ALL FOOTINGS TO EXTEND DOWN TO FROST LEVEL MINIMUM. COORDINATE EXACT LOCATIONS OF FLOOR DRAINS WITH MECHANICAL CONTRACTOR.

COORDINATE WITH FINISH PLANS FOR FINAL FINISH SELECTIONS

PROVIDE 5/8" GYP. BOARD TYPE "X" ON GARAGE CEILINGS. ALL INTERIOR DOORS TO BE 1 7/8" SOLID CORE WOOD DOORS.

TCDL= 10 PSF BCDL= 10 PSF NET UPLIFT= 15 PSF 19/32" APA RATED EXPOSURE 1 OSB **ROOF TRUSS CRITERIA** TCLL= 25 PSF TCDL= 10 PSF BCDL= 10 PSF NET UPLIFT= 10 PSF ATTIC LL= 40 PSF

 Δ TTL < L/240

COORDINATION OF WORK BETWEEN TRADES

OPENING HEADERS
UP TO 4'-0" (2) 2 X 8 NON BEARING 1 JACK, 1 KING 1 JACK, 1 JACK, 1 KING 2 JACK, 4'-0" - 6'-0" (2) 2 X 10 6'-1" - 8'-0" (2) 2 X 12 1 JACK, 1 KING 2 JACK, REFER TO CONSULTANT DRAWINGS IF APPLICABLE FOR 8'-1" - 10'-0" (2) 11 1/4 LVL 2 JACK, 1 KING 3 JACK,

> INDICATES WEB STIFFENING BELOW BEARING WALL ABOVE ∭ INDICATES AREA OF ADDITIONAL FRAMING REQUIRED INDICATES POINT LOAD FROM ABOVE

WINDOW SCHEDULE

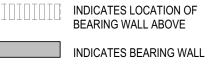
ID QTY WxH

W01 9 3'-0"×5'-6"

W02 12 3'-0"×5'-0"

W03 1 3'-0"×3'-0"

INDICATES LOCATION OF BEARING WALL ABOVE





DS [] DS

SLOPE 6:12

SLOPE 6:12

SLOPE 6:12

SLOPE 2 :12



PROJECT TEAM:

ARCHITECT HARA ARCHITECTS

PROJECT #: 2510

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ROOF PLAN & BUILDING

SECTIONS

O/ 17/32" APA RATED EXTERIOR GRADE SHEATHING. ICE GUARD SHOULD BE

MATERIAL SCHEDULE

INSTALLED AT ALL EAVES AND VALLEYS, UP 72", AND WRAPPED OVER THE

ASPHALT SHINGLE ROOF (R-1) 30 YEAR ARCHITECTURAL SHINGLE

O/ MANUFACTURER'S RECOMMENDED UNDERLAYMENT

SLOPE 4 :12

BASIS OF DESIGN: REFER TO EXTERIOR ELEVATION MATERIAL LEGEND

ROOF PLAN GENERAL NOTES

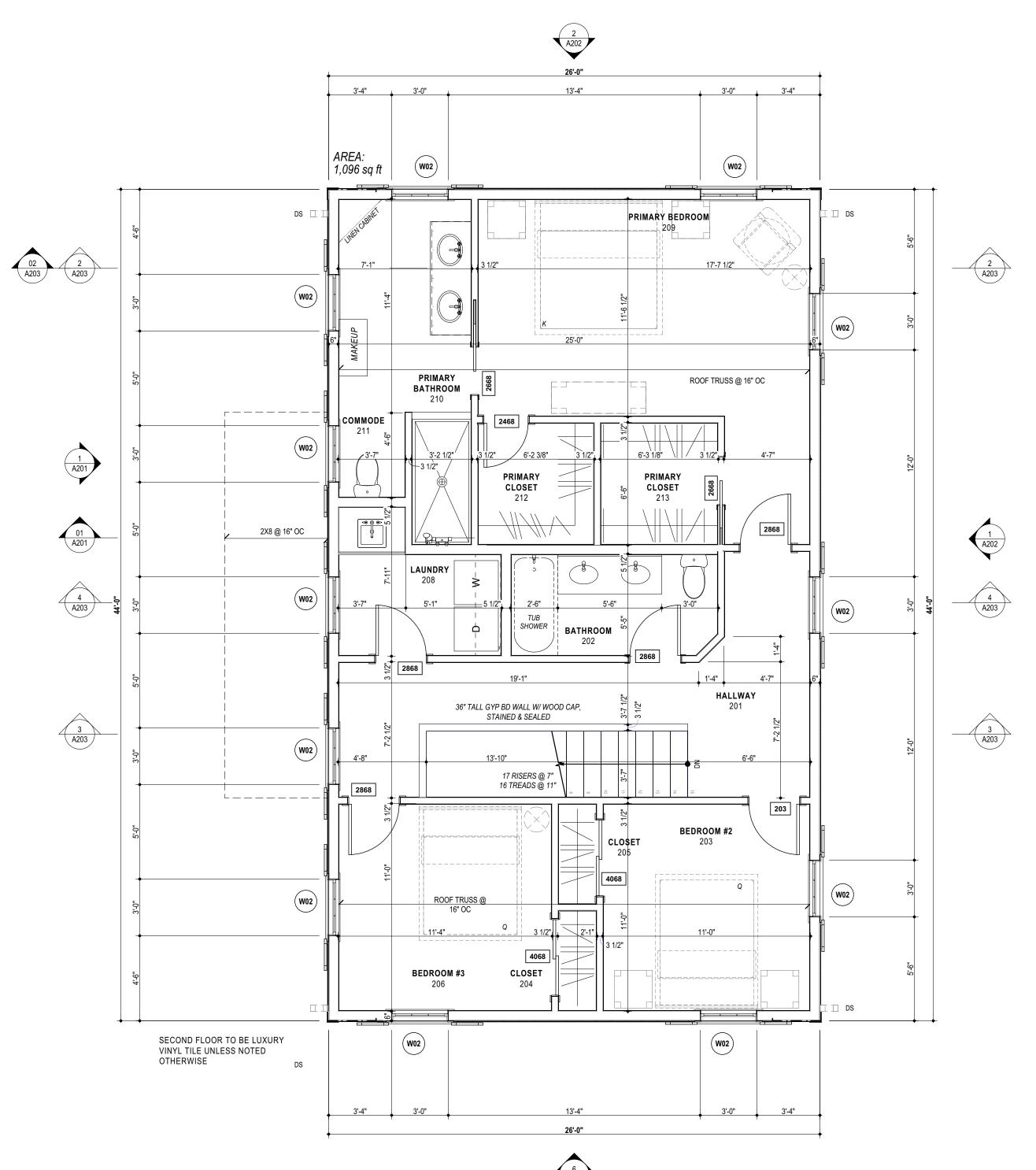
SLOPE 6:12

OVERHANG DIMENSIONS ARE NOTED FROM THE EXTERIOR FACE OF SHEATHING TO THE EXTERIOR FACE OF THE 1X FASCIA BOARD ALL BEARING ELEVATIONS NOTED ARE FROM THE INSIDE FACE OF THE 2X FRAMING U.N.O.

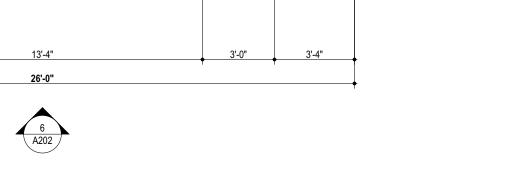
OVERFRAMING AND CRICKETS TO BE CONSTRUCTED OF A MINIMUM 2 X 8

ALL ROOF PENETRATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLTION TO INSURE AESTHETIC EXPECTATIONS ARE MAINTAINED. FLASH AND TERMINATE ALL PROOF PENETRATIONS PER MANUFACTURERS RECOMMENDATIONS U.N.O.

GUTTER PROFILES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INDICATES DOWNSPOUT AND GUTTER LOCATION DS 🔾 GUTTER []]



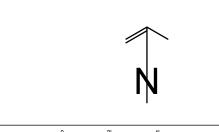
SECOND FLOOR PLAN

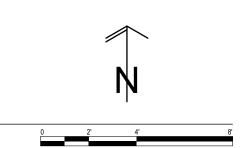














PROJECT TEAM:

ARCHITECT
HARA ARCHITECTS
STRUCTURAL
I A LEWIN

BRAHAM RESIDENCE

PROJECT #: 2510

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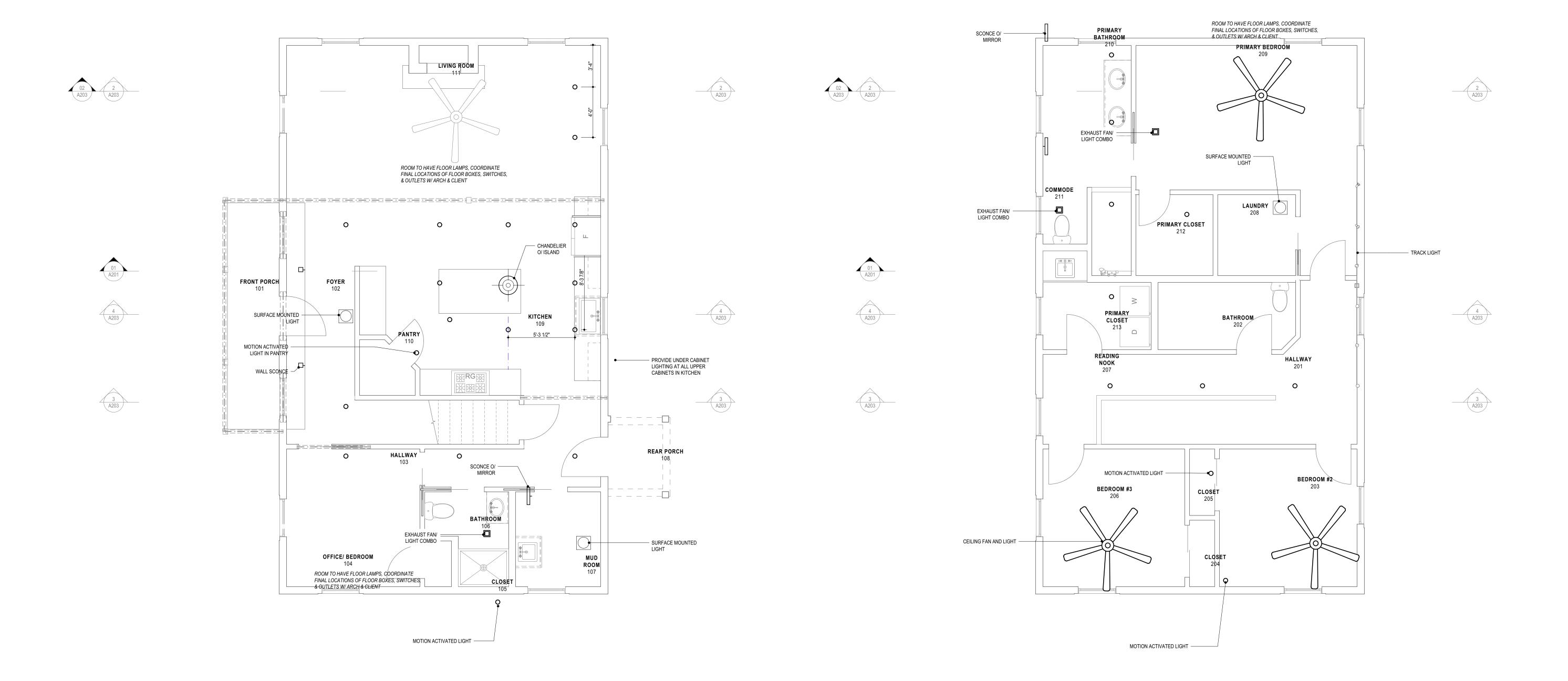
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CEILING PLANS





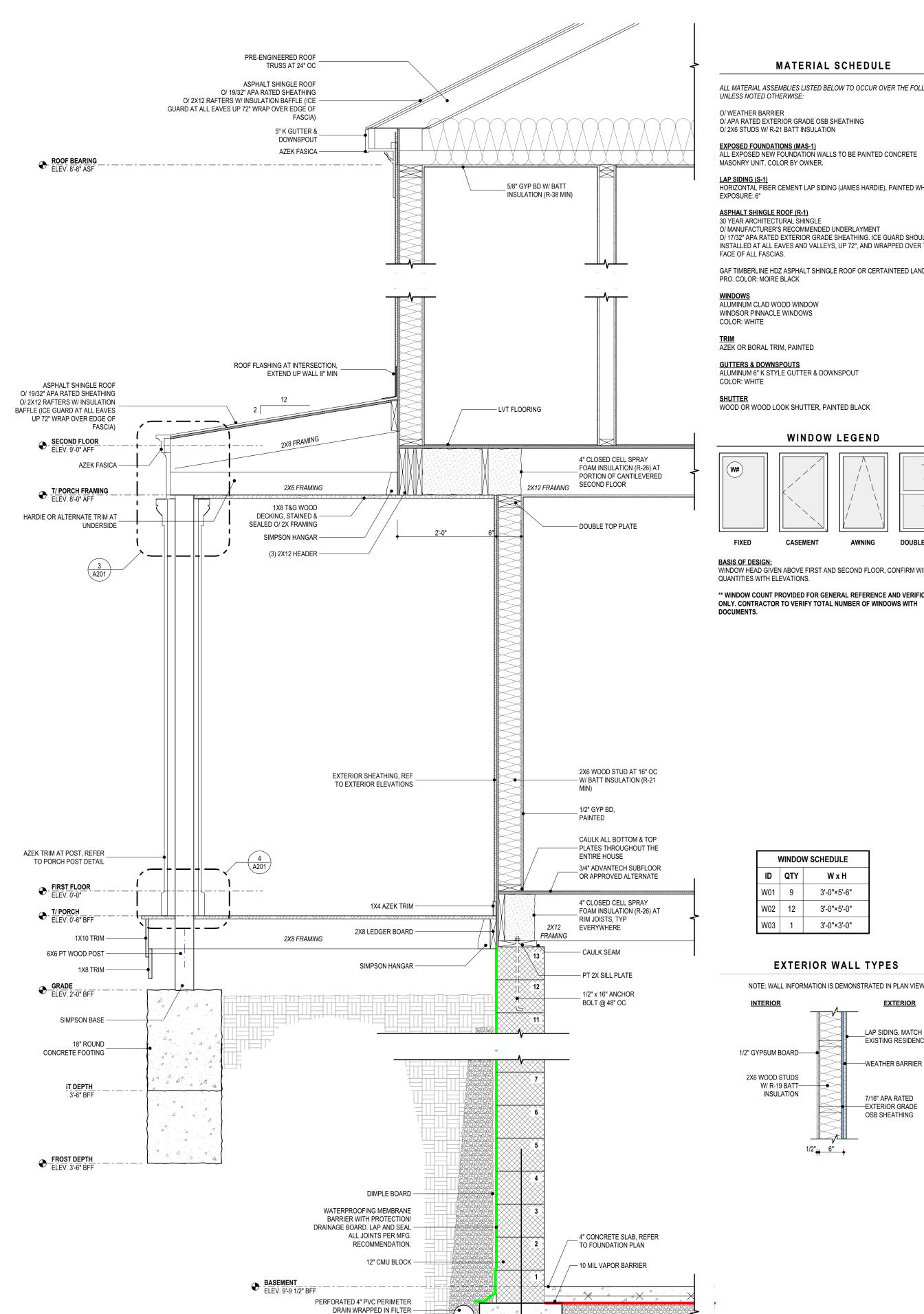
1 FIRST FLOOR CEILING PLAN

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

N 4 8

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

I A LEWIN



18" x 10" CONCRETE FOOTING THROUGHOUT W/ -(3) #5 CONTINUOUS, TYP

MATERIAL SCHEDULE haraarchitects.com PROJECT TEAM: ALL MATERIAL ASSEMBLIES LISTED BELOW TO OCCUR OVER THE FOLLOWING UNLESS NOTED OTHERWISE: O/ WEATHER BARRIER O/ APA RATED EXTERIOR GRADE OSB SHEATHING O/ 2X6 STUDS W/ R-21 BATT INSULATION ARCHITECT HARA ARCHITECTS STRUCTURAL

LAP SIDING (S-1)
HORIZONTAL FIBER CEMENT LAP SIDING (JAMES HARDIE), PAINTED WHITE EXPOSURE: 6"

ASPHALT SHINGLE ROOF (R-1)
30 YEAR ARCHITECTURAL SHINGLE
0/ MANUFACTURER'S RECOMMENDED UNDERLAYMENT O/ 17/32" APA RATED EXTERIOR GRADE SHEATHING. ICE GUARD SHOULD BE INSTALLED AT ALL EAVES AND VALLEYS, UP 72", AND WRAPPED OVER THE FACE OF ALL FASCIAS.

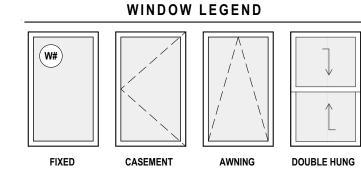
GAF TIMBERLINE HDZ ASPHALT SHINGLE ROOF OR CERTAINTEED LANDMARK PRO. COLOR: MOIRE BLACK

ALUMINUM CLAD WOOD WINDOW WINDSOR PINNACLE WINDOWS COLOR: WHITE

TRIM AZEK OR BORAL TRIM, PAINTED

GUTTERS & DOWNSPOUTS
ALUMINUM 6" K STYLE GUTTER & DOWNSPOUT

<u>SHUTTER</u> WOOD OR WOOD LOOK SHUTTER, PAINTED BLACK



WINDOW HEAD GIVEN ABOVE FIRST AND SECOND FLOOR, CONFIRM WINDOW QUANTITIES WITH ELEVATIONS.

** WINDOW COUNT PROVIDED FOR GENERAL REFERENCE AND VERIFICATION ONLY. CONTRACTOR TO VERIFY TOTAL NUMBER OF WINDOWS WITH

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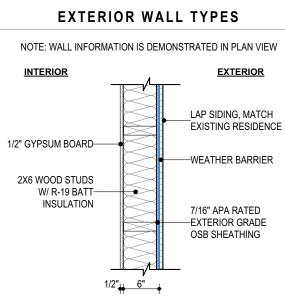
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WINDOW SCHEDULE

ID QTY

W02 | 12 | 3'-0"×5'-0"

W03 1 3'-0"×3'-0"



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EXTERIOR ELEVATIONS, SECTIONS, & DETAILS

WALL SECTION 01





ASPHALT SHINGLE ROOF O/ 19/32" APA RATED SHEATHING O/ 2X12 RAFTERS W/ INSULATION BAFFLE (ICE GUARD AT ALL EAVES UP 72" WRAP OVER EDGE OF FASCIA)

AZEK 1X4 TRIM W/ METAL DRIP -

AZEK SCOTIA (AZM-93) -

AZEK SCOTIA (AZM-93) -

AZEK BASE CAP (AZM-64)

AZEK SCOTIA (AZM-93) -

AZEK SCOTIA (AZM-93) —

AZEK COLUMN WRAP -

NOMINAL TIMBER POST —

AZEK COLUMN WRAP -

AZEK SCOTIA (AZM-93) -

AZEK 1X4 TRIM —

2X4, CONTINUOUS —

AZEK 1X4 TRIM —

AZEK 1X2 —

COLUMN CAPITAL AND ROOF TRIM

2X4, CONTINUOUS -

AZEK 1X4 TRIM -

AZEK 5/4X12 TRIM -

AZEK 1X4 TRIM -

TRIM **01**

SIDING 01

MASONRY 01

WEST ELEVATION (FRONT OF HOUSE)

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

AZEK CROWN MOULDING

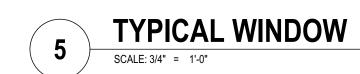
AND CAP

AZEK 1X4 TRIM

AZEK 5/4X9" TRIM

BEVELED EDGE

AZEK 1X6 TRIM



CONTINUOUS RIDGE VENT

ROOF **01**

· ELEV. 24'-6" AFF

ROOF BEARING ELEV. 8'-0" ASF

FIRST FLOOR
ELEV. 0'-0"

AZEK UNIVERSAL SKIRT BOARD,

SMOOTH, TYP ON ALL SIDES

1X8 CORNERBOARD,

PROJECT TEAM:

ARCHITECT HARA ARCHITECTS

STRUCTURAL I A LEWIN

MATERIAL SCHEDULE

ALL MATERIAL ASSEMBLIES LISTED BELOW TO OCCUR OVER THE FOLLOWING UNLESS NOTED OTHERWISE:

O/ WEATHER BARRIER O/ APA RATED EXTERIOR GRADE OSB SHEATHING O/ 2X6 STUDS W/ R-21 BATT INSULATION

EXPOSED FOUNDATIONS (MAS-1)
ALL EXPOSED NEW FOUNDATION WALLS TO BE PAINTED CONCRETE MASONRY UNIT, COLOR BY OWNER.

LAP SIDING (S-1)
HORIZONTAL FIBER CEMENT LAP SIDING (JAMES HARDIE), PAINTED WHITE EXPOSURE: 6"

ASPHALT SHINGLE ROOF (R-1)
30 YEAR ARCHITECTURAL SHINGLE
O/ MANUFACTURER'S RECOMMENDED UNDERLAYMENT
O/ 17/32" APA RATED EXTERIOR GRADE SHEATHING. ICE GUARD SHOULD BE
INSTALLED AT ALL EAVES AND VALLEYS, UP 72", AND WRAPPED OVER THE FACE OF ALL FASCIAS.

GAF TIMBERLINE HDZ ASPHALT SHINGLE ROOF OR CERTAINTEED LANDMARK PRO. COLOR: MOIRE BLACK

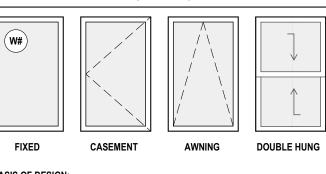
WINDOWS
ALUMINUM CLAD WOOD WINDOW WINDSOR PINNACLE WINDOWS COLOR: WHITE

TRIM AZEK OR BORAL TRIM, PAINTED

GUTTERS & DOWNSPOUTS
ALUMINUM 6" K STYLE GUTTER & DOWNSPOUT COLOR: WHITE

SHUTTER WOOD OR WOOD LOOK SHUTTER, PAINTED BLACK

WINDOW LEGEND



BASIS OF DESIGN:
WINDOW HEAD GIVEN ABOVE FIRST AND SECOND FLOOR, CONFIRM WINDOW QUANTITIES WITH ELEVATIONS.

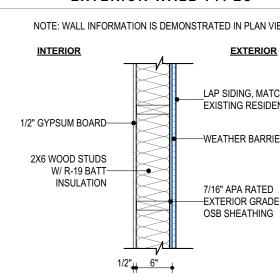
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EXTERIOR WALL TYPES

WINDOW SCHEDULE

W02 12 3'-0"×5'-0" W03 1 3'-0"×3'-0"



NOTE: WALL INFORMATION IS DEMONSTRATED IN PLAN VIEW **EXTERIOR** _LAP SIDING, MATCH EXISTING RESIDENCE ---WEATHER BARRIER EXTERIOR GRADE
OSB SHEATHING

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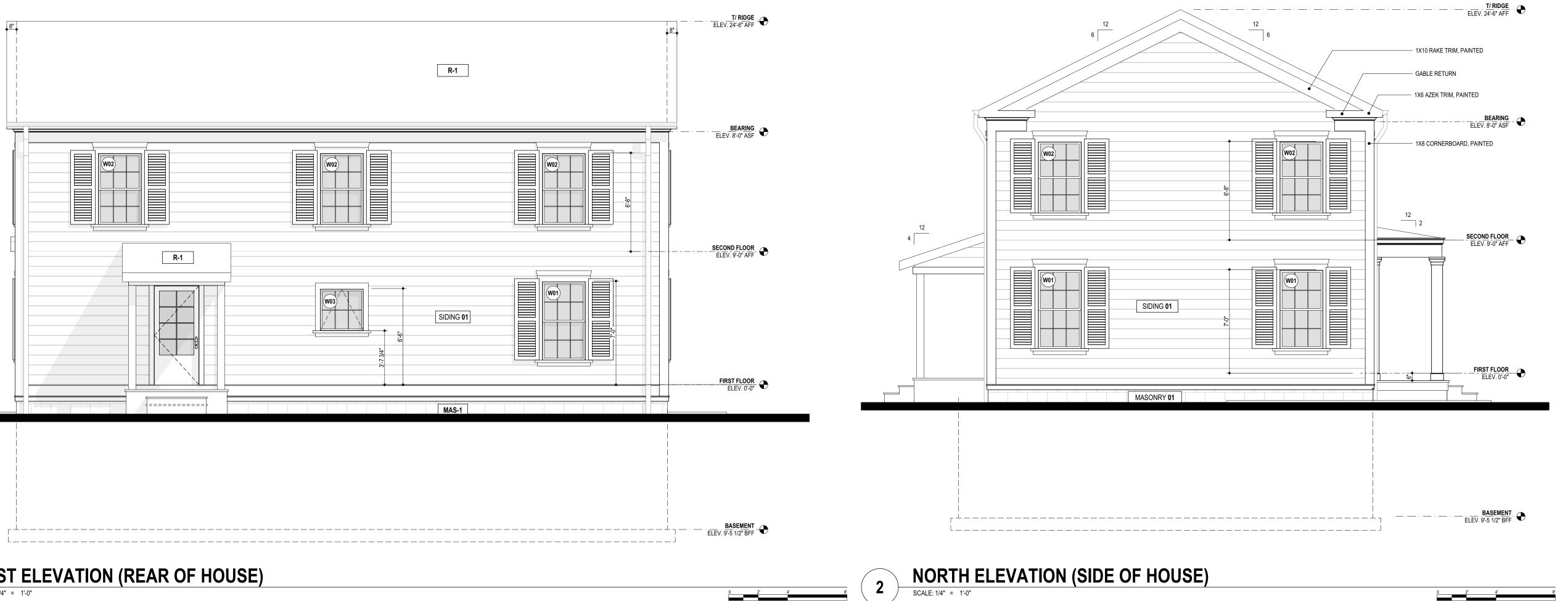
EXTERIOR ELEVATIONS, SECTIONS, & DETAILS

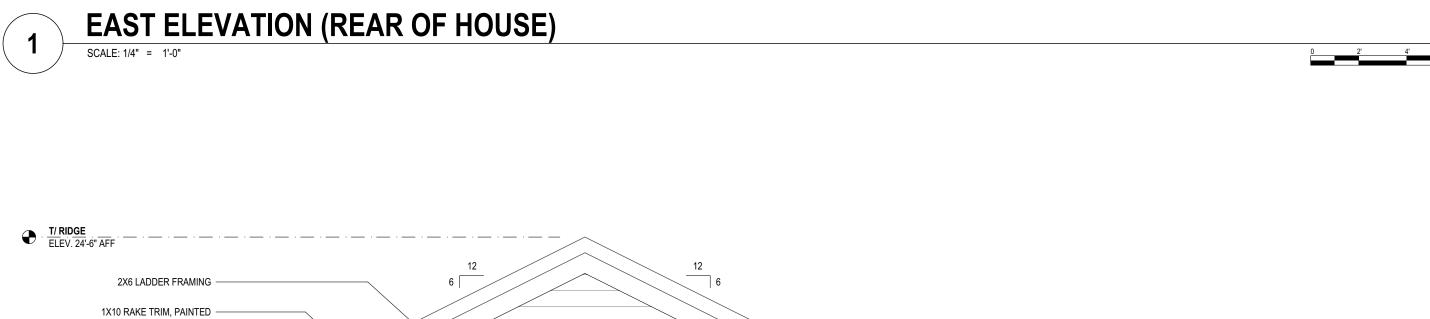
SCALE: 1/4" = 1'-0"

GABLE RETURN —

- BEARING ELEV. 8'-0" ASF

FIRST FLOOR
ELEV. 0'-0"





SIDING 01

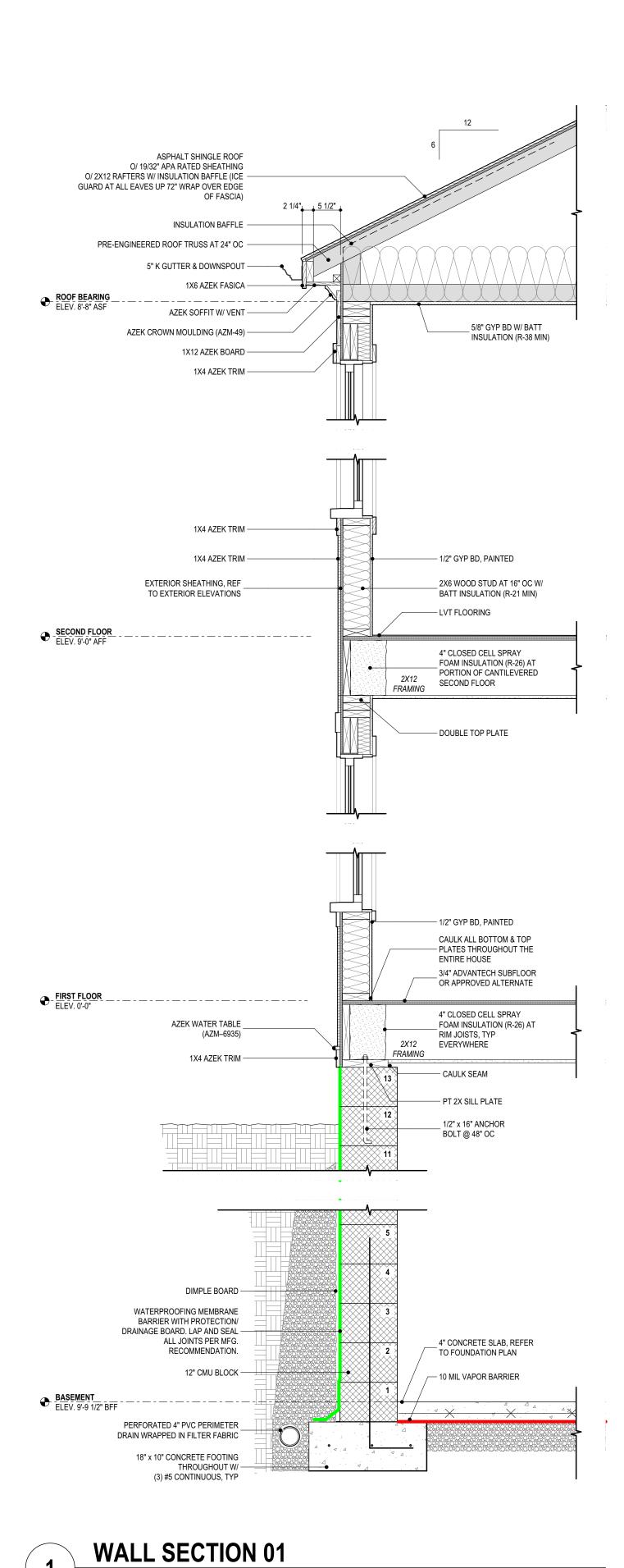
MASONRY 01

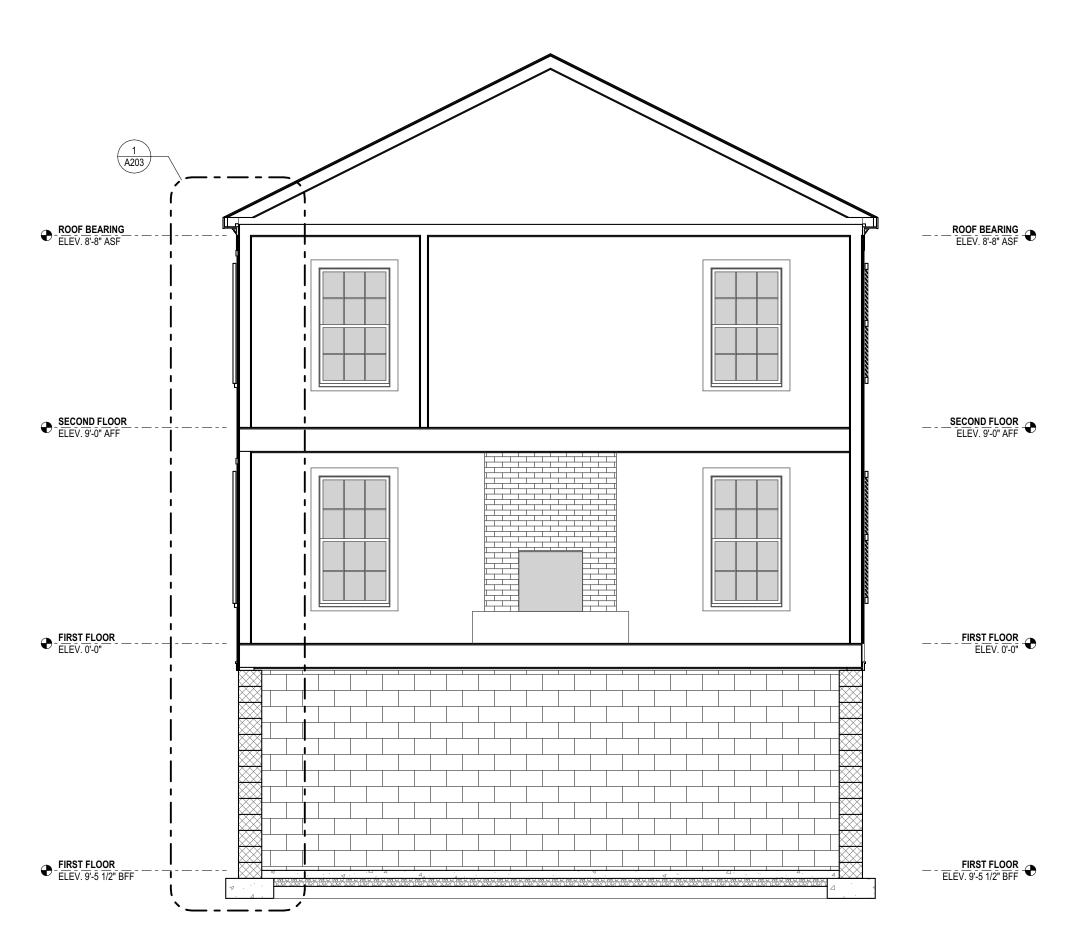
R-1

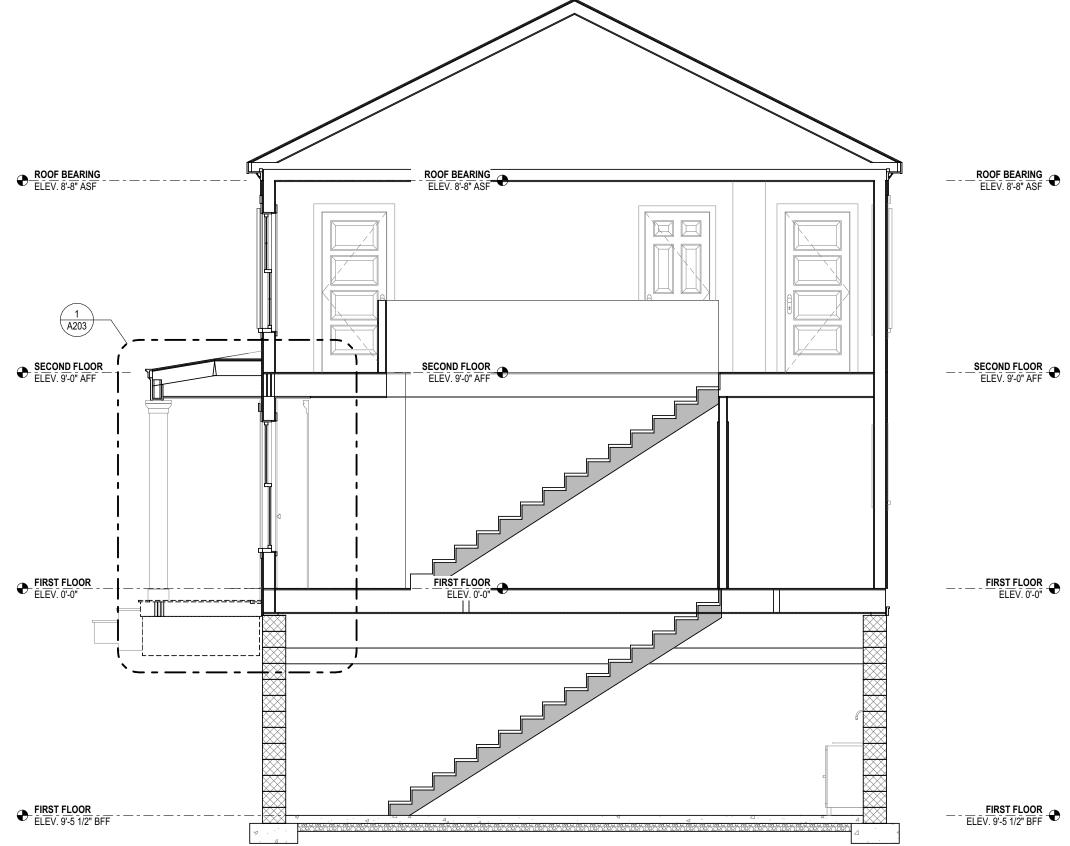
R-1

SIDING 01

MAS-1

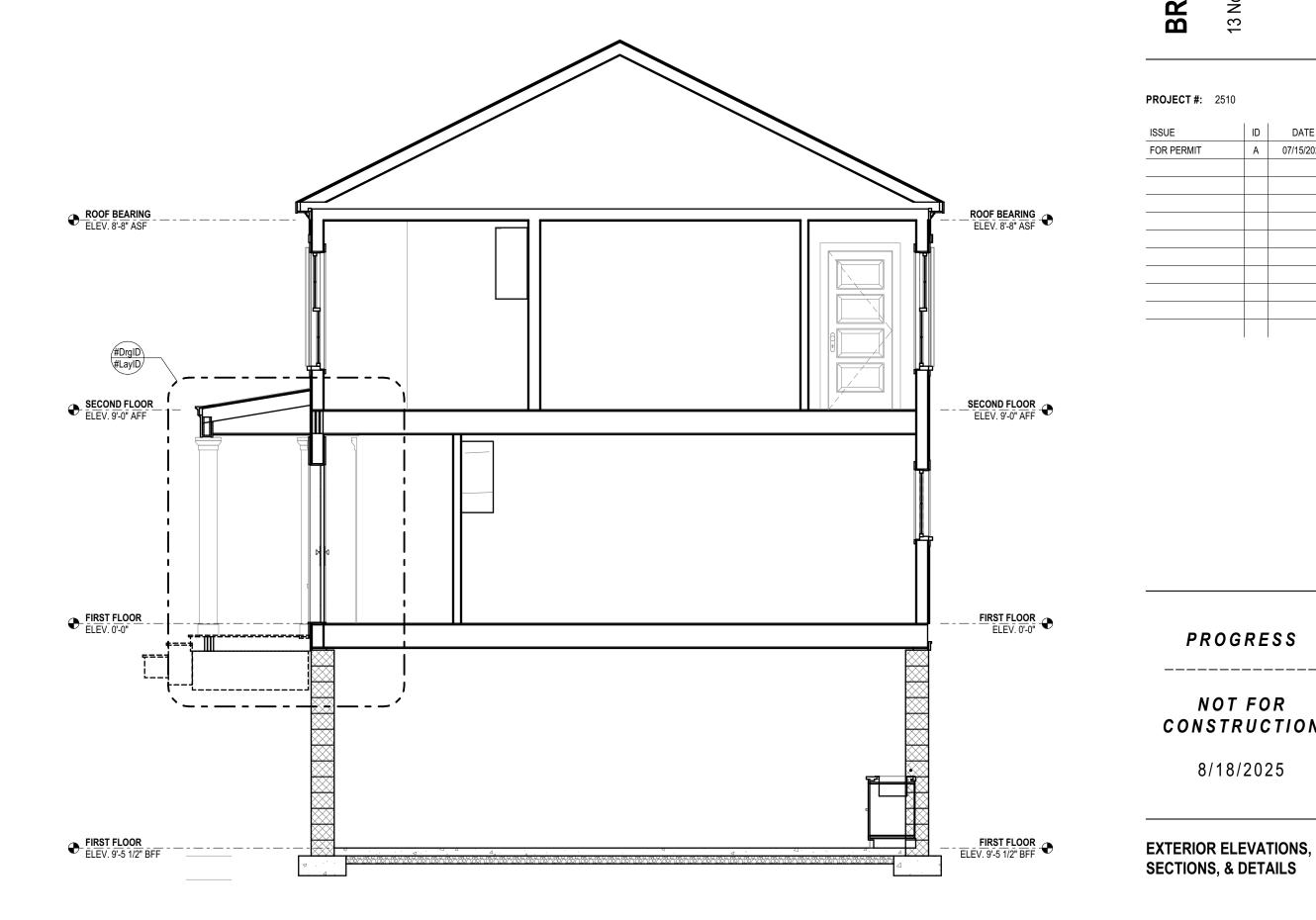






BUILDING SECTION 1

BULDING SECTION 2



BUILDING SECTION 3

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

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

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SECTIONS, & DETAILS

PROJECT #: 2510

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HARA ARCHITECTS

haraarchitects.com

PROJECT TEAM:

ARCHITECT HARA ARCHITECTS

STRUCTURAL I A LEWIN