PERLMAN-HANSON BARN

36 HINKLE ROAD WASHINGTON, CONNECTICUT 06793

ISSUED FOR ZONING BOARD OF APPEALS

ARCHITECT:

Brooks & Falotico Associates, LLP 199 Elm Street New Canaan, CT 06840 info@brooksandfalotico.com 203.966.8440

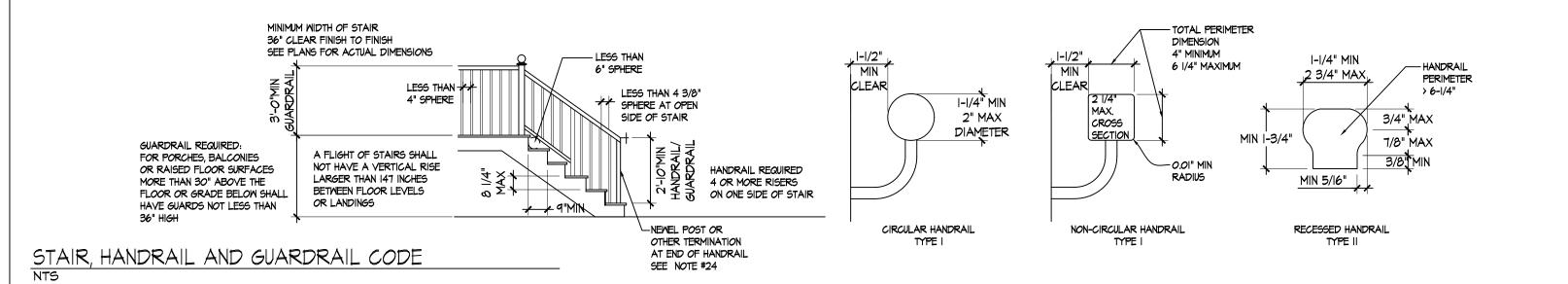
DESCRIPTION:

COVER PAGE

000

TABLE R301.2(1) CLIMATE AND GEOGRAPHIC DESIGN CRITERIA

	WIND DESIGN				SUBJECT TO DAMAGE FROM									
GROUND SNOW LOAD	ULTIMATE WIND SPEED, Vuit	NOMINAL WIND SPEED, Vasd	MIND EXPOSURE	WIND-BORNE DEBRIS ZONE	SEISMIC DESIGN CATEGORY	MEATHERING	FROST LINE DEPTH	TERMITE	WINTER DESIGN TEMP	UNDERLAYMENT REQUIRED	FLOOD HAZARDS		MEAN ANNUAL TEMPERATURE	CLIMATE ZONE
35 PSF	120 MPH	93 MPH	c	NO	В	SEVERE	42"	MODERATE-HEAVY	7° F	YES SEE DETAILS	NO	1500 OR LESS	50° F	5A



GENERAL NOTES ALL NOTES MAY NOT APPLY

- I. THE WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED AND IS THE BEST OF OUR KNOWLEDGE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE 2018 CONNECTICUT STATE BUILDING CODE, WITH AMENDMENTS TO THE:
- 2015 INTERNATIONAL RESIDENTIAL CODE
 2015 INTERNATIONAL PLUMBING CODE
 2015 INTERNATIONAL MECHANICAL CODE
 2015 INTERNATIONAL ENERGY CONSERVATION CODE

2017 NFPA 70, NATIONAL ELECTRICAL CODE

- 2. THE CONTRACTORS SHALL VISIT THE SITE AND BE RESPONSIBLE FOR HAVING RECORDED ALL CONDITIONS WITHIN THE SCOPE OF THE PROJECT.
- 3. ALL WORK IS TO CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE LOCAL GOVERNING CODES, STATE CONSTRUCTION AND ENERGY CONSERVATION CODES, FIRE DEPARTMENT REGULATIONS, FHA FRAMING STANDARDS, OSHA CODES AND THE BEST TRADE PRACTICES.
- 4. IN THE EVENT OF CONFLICT BETWEEN PERTINENT CODES AND REGULATIONS AND THE STANDARDS REFERENCES IN THE DRAWINGS AND NOTES, THE MORE STRINGENT PROVISION SHALL GOVERN.
- 5. DO NOT SCALE THE DRAWINGS USE ONLY COMPUTED NUMERICAL DIMENSIONS SHOWN ON THE DRAWINGS. TYPICAL MINOR DETAILS AND ASSEMBLIES ALTHOUGH NOT SHOWN OR SPECIFIED, NECESSARY FOR PROPER CONSTRUCTION AND OPERATION OF ANY PART OF THE WORK, AND TO MATCH THE QUALITY AND APPEARANCE OF ANY EXISTING CONSTRUCTION AND SHALL BE INCLUDED IN THE WORK THE SAME AS IF SPECIFIED OR INDICATED
- 6. ALL DIMENSIONS ARE TO FACE OF STUD, CONCRETE OR MASONRY UNLESS OTHERWISE NOTED. ANY DIMENSION FOLLOWED BY +/- SYMBOL ARE APPROXIMATE AND NEED TO BE VERIFIED BY THE GENERAL CONTRACTOR, BASED ON FIELD CONDITIONS DURING CONSTRUCTION. SEE PLAN NOTES FOR HOW DOORS/JAMBS ARE DIMENSIONED.
- 7. CONTRACTORS WILL BE HELD RESPONSIBLE FOR INCORRECT WORK CAUSED BY THEIR FAILURE TO COMPLY WITH THE ABOVE INSTRUCTION
- 8. THE CONTRACTORS ARE TO FILE INSURANCE CERTIFICATES AND OBTAIN AND PAY FOR ALL PERMITS. THE CONTRACTOR SHALL SCHEDULE ALL REQUIRED INSPECTIONS WITH BUILDING DEPT., AND FILE FOR AND OBTAIN CERTIFICATES OF OCCUPANCY. NO WORK TO START PRIOR TO OBTAINING PERMITS.
- 9. THE CONTRACTORS SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING AND NEW CONDITIONS AND MATERIALS ADJACENT TO THE CONSTRUCTION AREA. ANY DAMAGE CAUSED BY EXECUTION OF THE WORK INDICATED OR IMPLIED HEREIN SHALL BE REPAIRED OR REPLACED TO THE OWNER'S SATISFACTION. THIS WORK SHALL BE PERFORMED AT THE CONTRACTOR'S SOLE EXPENSE.
- IO. THE CONTRACTOR SHALL KEEP THE WORK SITE FREE FROM DEBRIS, ACCUMULATED REFUSE AND SHALL HAVE THE SOLE RESPONSIBILITY FOR PROTECTING ALL DANGEROUS AREAS AND CONDITIONS.
- II. BY STARTING ANY WORK, THE CONTRACTOR SIGNIFIES ACCEPTANCE OF THE PREVIOUSLY INSTALLED BACKUP MATERIALS AND FRAMING, AND WAIVES ANY RIGHT TO BLAME PRIOR WORK FOR ANY DEFECTS IN HIS WORK.
- 12. ALL WORK SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL PAYMENT.
 GENERAL CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE ON HIS WORK AND
 ALL SUBCONTRACTOR WORK, AGAINST EFFECTS RESULTING FROM THE USE OF
 INFERIOR MATERIALS, EQUIPMENT, OR WORKMANSHIP, AS DETERMINED BY THE
 ARCHITECT. ALL SUCH DEFECTS ARE TO BE REPLACED OR REPAIRED, COMPLETE WITH
 LABOR AND MATERIALS, AT NO COST TO THE OWNER.

- 13. GRADES, BUILDING LOCATIONS, UTILITIES, ETC., SHALL BE VERIFIED IN THE FIELD BY THE SURVEYOR, WHO SHALL ALSO LOCATE THE BUILDING, ETC., AND FURNISH THE CERTIFIED LOCATION SURVEY(S) REQUIRED BY THE BUILDING DEPARTMENT SHOULD ANY DISCREPANCIES OCCUR, THE SURVEYOR SHALL NOTIFY THE ARCHITECT & OBTAIN HIS APPROVAL FOR ANY ADJUSTMENT THAT MAY BE REQUIRED TO COMPLY WITH ZONING AND/OR OTHER APPLICABLE REGULATIONS, PRIOR TO THE
- COMMENCEMENT OF CONSTRUCTION.

 14. INSULATION VALUES UNLESS NOTED OTHERWISE:

INTO THREE DIFFERENT AREAS.

- PROVIDE FS-25 FACED INSULATION, FLAME STOP RATING 25 OR LESS, WHERE FACING IS LEFT EXPOSED.

 FIRE-STOPPING SHALL BE PROVIDED AT FLOORS WALLS FURRED SOFFITS DE
- 15. FIRE-STOPPING SHALL BE PROVIDED AT FLOORS, WALLS, FURRED SOFFITS, DROPPED CEILINGS, COVE CEILING, TUB PLUMBING AREAS, STAIRWAYS, CHIMNEYS, FIREPLACES CORNICES AND AROUND PIPING.

 VERTICALLY AT CEILING AND FLOOR LEVELS.
- HORIZONTALLY AT CEILING AND FLOOR LEVELS.

 HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET

 MATERIAL: 2x SOLID WOOD, NON COMBUSTIBLE FIRESTOP, FIRE SEALANT OR

 APPROVED OTHER MATERIAL.
- 16. DRAFT-STOPPING SHALL BE PROVIDED AT SUSPENDED CEILING UNDER FLOOR FRAMING AND FLOOR FRAMING CONSTRUCTED OF TRUSS-TYPE OPEN WEB OR PERFORATED MEMBERS.
 MATERIAL: NOT LESS THAN I/2" GYPSUM BOARD OR OTHER APPROVED MATERIAL.
 AREA: WHEN SPACE EXCEEDS 1000 SQUARE FEET, DIVIDE EQUALLY. WHEN SPACE EXCEEDS 2000 SQUARE FEET BUT NOT EXCEEDING 3000 SQUARE FEET, DIVIDE
- 17. TEMPERED GLASS SHALL BE USED FOR ALL SLIDING, SWING, STORM & SHOWER DOORS, TUB ENCLOSURES AND WINDOWS AROUND TUB. TEMPER GLASS LESS THAN 24" FROM ANY DOOR IN CLOSED POSITION.
- 8. STAIRWAYS HANDRAIL SHALL NOT BE LESS THAN 34" NOR MORE THAN 36" MEASURED VERTICALLY ABOVE THE TREAD NOSING, A GUARDRAIL NOT LESS THAN 36" HIGH ON OPEN SIDE OF THE STAIR SHALL BE PROVIDED, A SUFFICIENT NUMBER OF INTERMEDIATE LONGITUDINAL RAILS OR VERTICAL BALUSTERS SHALL BE PROVIDED SO THAT THE DISTANCE BETWEEN THE MEMBERS IS LESS THAN 4". BALCONY RAILINGS SHALL
- BE 36" HIGH.

 19. FIREPLACES SHALL BE PROVIDED WITH DAMPERS. HEARTHS FOR FIREPLACES WITH AN OPENING OF 6 SQ.FT. OR LESS SHALL EXTEND 16" MIN, IN FRONT AND 8" MIN. ON EACH SIDE; IF OPENING IS MORE THAN 6 SQ. FT., HEARTH SHALL EXTEND 20" MIN. IN FRONT AND 12" MIN. ON EACH SIDE. SEE PLANS FOR MORE DETAIL.
- 20. FIREPLACE CONSTRUCTION, CHIMNEYS, FLUES, GAS VENTS, ETC. SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER IO AND 18 OF THE INTERNATIONAL RESIDENTIAL CODE. CLAY FLUE LINING TO COMPLY WITH REQUIRMENTS OF ASTM C315 OR EQUIVALENT. CONTRACTOR TO PROVIDE CUT SHEET OF UL LISTINGS.
- 21. FIREPLACES SHALL HAVE TIGHT FITTING ENERGY-SAVING CHIMNEY TOP DAMPERS AND OUTDOOR COMBUSTION AIR AS PER STATE ENERGY CODE.
- 22. PROVIDE FLASHING AT WINDOW'S AND DOOR'S HEADS, AND OVER LEDGER BOARD FOR DECKS. EXPOSED FLASHINGS AND FLASHING FOR CHIMNEY SHALL BE 16 OZ COPPER WITH SOLDERED SEAMS AND STEP FLASHING AND OTHER CONCEALED FLASHING SHALL BE ALUMINUM 20 GA UNLESS NOTED OTHERWISE ON THE DRAWINGS.

23. STAIRWAYS: ENCLOSED SPACE UNDER STAIRS THAT IS ACCESSED BY A DOOR OR ACCESS PANEL SHALL HAVE WALLS, UNDER-STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH MINUIMN 1/2" GYPSUM BOARD.

24. HANDRAIL CONTINUITY R311.7.8.2

HANDRAILS FOR STAIRWAYS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER OF THE FLIGHT. HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POSTS OR SAFETY TERMINALS. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN II/2 INCHES (38 MM) BETWEEN THE WALL AND

THE HANDRAILS.

EXCEPTIONS:

I. HANDRAILS SHALL BE PERMITTED TO BE INTERRUPTED BY A NEWEL POST AT THE TURN.

2. THE USE OF A VOLUTE, TURNOUT, STARTING EASING OR STARTING NEWEL SHALL BE ALLOWED OVER THE LOWEST TREAD.

2015 IECC REQUIREMENT

R402.4.1.2 TESTING. THE BUILDING OR DWELLING UNIT SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE NOT EXCEEDING FIVE AIR CHANGES PER HOUR IN CLIMATE ZONES I AND 2, AND THREE AIR CHANGES PER HOUR IN CLIMATE ZONES 3 THROUGH 8. TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM E 779 OR ASTM E 1827 AND REPORTED AT A PRESSURE OF 0.2 INCH W.G. (50 PASCALS). WHERE REQUIRED BY THE CODE OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL. TESTING SHALL BE PERFORMED AT ANY TIME AFTER CREATION OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE. DURING TESTING:

I. EXTERIOR WINDOWS AND DOORS, FIREPLACE AND STOVE DOORS SHALL BE CLOSED, BUT NOT SEALED, BEYOND THE INTENDED WEATHERSTRIPPING OR OTHER INFILTRATION CONTROL MEASURES.

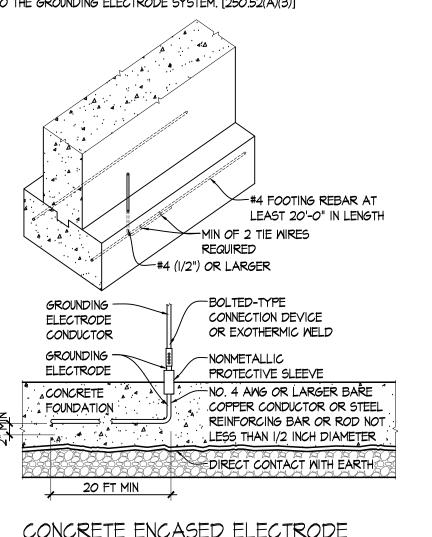
- 2. DAMPERS INCLUDING EXHAUST, INTAKE, MAKEUP AIR, BACKDRAFT AND FLUE DAMPERS SHALL BE CLOSED, BUT NOT SEALED BEYOND INTENDED INFILTRATION CONTROL MEASURES.
- 3. INTERIOR DOORS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE OPEN.
- 4. EXTERIOR DOORS FOR CONTINUOUS VENTILATION SYSTEMS AND HEAT RECOVERY VENTILATORS SHALL BE CLOSED AND SEALED.
- 5. HEATING AND COOLING SYSTEMS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE TURNED OFF.
- 6. SUPPLY AND RETURN REGISTERS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE FULLY OPEN.

E3608.1.2 CONCRETE-ENCASED ELECTRODE

A CONCRETE-ENCASED ELECTRODE CONSISTING OF NOT LESS THAN 20 FEET (6096 MM)
OF EITHER OF THE FOLLOWING SHALL BE CONSIDERED AS A GROUNDING ELECTRODE:
I. ONE OR MORE BARE OR ZINC-GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE
COATED STEEL REINFORCING BARS OR RODS NOT LESS THAN I/2 INCH (13 MM) IN DIAMETER,
INSTALLED IN ONE CONTINUOUS 20-FOOT (6096 MM) LENGTH, OR IF IN MULTIPLE PIECES
CONNECTED TOGETHER BY THE USUAL STEEL TIE WIRES, EXOTHERMIC WELDING, WELDING,
OR OTHER EFFECTIVE MEAN TO CREATE A 20-FOOT (6096 MM) OR GREATER LENGHT.
2. A BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG.

METALLIC COMPONENTS SHALL BE ENCASED BY AT LEAST 2 INCHES
(5I MM) OF CONCRETE AND SHALL BE LOCATED HORIZONTALLY WITHIN
THAT PORTION OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT
WITH THE EARTH OR WITHIN VERTICAL FOUNDATIONS OR STRUCTURAL COMPONENTS OR
MEMBERS THAT ARE IN DIRECT CONTACT WITH THE EARTH.

WHERE MULTIPLE CONCRETE-ENCASED ELECTRODES ARE PRESENT AT A BUILDING OR STRUCTURE, ONLY ONE SHALL BE REQUIRED TO BE BONDED INTO THE GROUNDING ELECTRODE SYSTEM. [250.52(A)(3)]



CONCRETE ENCASED ELECTRODE FOR LIGHTNING PROTECTION

AIR BARRIER AND INSULATION INSTALLATION CRITERIA AND GUIDELINES

TABLE R402.4.I.I 2015 IECC AIR BARRIER AND INSULATION INSTALLATION

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
GENERAL REQUIREMENTS	A CONTINUOUS AIR BARRIER SHALL BE INSTALLED IN THE BUILDING ENVELOPE. THE EXTERIOR THERMAL ENVELOPE CONTAINS A CONTINUOUS AIR BARRIER. BREAKS OR JOINTS IN THE AIR BARRIER SHALL BE SEALED	AIR-PERMEABLE INSULATION SHALL NOT BE USED AS A SEALING MATERIAL.
CEILING/ATTIC	THE AIR BARRIER IN ANY DROPPED CEILING/SOFFIT SHALL BE ALIGNED WITH THE INSULATION AND ANY GAPS IN THE AIR BARRIER SHALL BE SEALED. ACCESS OPENINGS, DROP DOWN STAIRS OR KNEE WALL DOORS TO UNCONDITIONED ATTIC SPACES SHALL BE SEALED.	THE INSULATION IN ANY DROPPED CEILING/SOFFIT SHALL BE ALIGNED WITH THE AIR BARRIER.
WALLS		CAVITIES WITHIN CORNERS AND HEADERS OF FRAME WALLS SHALL BE INSULATED BY COMPLETELY FILLING THE CAVITY WITH A MATERIAL HAVING A THERMAL RESISTANCE OF R-3 PER INCH MINIMUM. EXTERIOR THERMAL ENVELOPE INSULATION FOR FRAMED WALLS SHALL BE INSTALLED IN SUBSTANTIAL CONTACT AND CONTINUOUS ALIGNMENT WITH THE AIR BARRIER.
WINDOWS, SKYLIGHTS AND DOORS	THE SPACE BETWEEN WINDOW/DOOR JAMBS AND FRAMING, AND SKYLIGHTS AND FRAMING SHALL BE SEALED.	
RIM JOISTS	RIM JOISTS SHALL INCLUDE THE AIR BARRIER.	RIM JOISTS SHALL BE INSULATED.
FLOORS (INCLUDING ABOVE-GARAGE AND CANTILEVERED FLOORS)	THE AIR BARRIER SHALL BE INSTALLED AT ANY EXPOSED EDGE OF INSULATION.	FLOOR FRAMING CAVITY INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF SUBFLOOR DECKING, OR FLOOR FRAMING CAVITY INSULATION SHALL BE PERMITTED TO BE IN CONTACT WITH THE TOP SIDE OF SHEATHING, OR CONTINUOUS INSULATION INSTALLED ON THE UNDERSIDE OF FLOOR FRAMING AND EXTENDS FROM THE BOTTOM TO THE TOP OF ALL PERIMETER FLOOR FRAMING MEMBERS.
CRAWL SPACE WALLS	EXPOSED EARTH IN UNVENTED CRAWL SPACES SHALL BE COVERED WITH A CLASS I VAPOR RETARDER WITH OVERLAPPING JOINTS TAPED.	WHERE PROVIDED INSTEAD OF FLOOR INSULATION, INSULATION SHALL BE PERMANENTLY ATTACHED TO THE CRAWLSPACE WALLS.
SHAFTS, PENETRATION	DUCT SHAFTS, UTILITY PENETRATIONS, AND FLUE SHAFTS OPENING TO EXTERIOR OR UNCONDITIONED SPACE SHALL BE SEALED.	
NARROW CAVITIES		BATTS IN NARROW CAVITIES SHALL BE CUT TO FIT, OR NARROW CAVITIES SHALL BE FILLED BY INSULATION THAT ON INSTALLATION READILY CONFORMS TO THE AVAILABLE CAVITY SPACE.
GARAGE SEPARATION	AIR SEALING SHALL BE PROVIDED BETWEEN THE GARAGE AND CONDITIONED SPACES.	
RECESSED LIGHTING	RECESSED LIGHT FIXTURES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO THE DRYWALL.	RECESSED LIGHT FIXTURES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE AIR TIGHT AND IC RATED.
PLUMBING AND WIRING		BATT INSULATION SHALL BE CUT NEATLY TO FIT AROUND WIRING AND PLUMBING IN EXTERIOR WALLS, OR INSULATION THAT ON INSTALLATION READILY CONFORMS TO AVAILABLE SPACE SHALL EXTEND BEHIND PIPING AND WIRING.
SHOMER/TUB ON EXTERIOR WALL	THE AIR BARRIER INSTALLED AT EXTERIOR WALLS ADJACENT TO SHOWERS AND TUBS SHALL SEPARATE THEM FROM THE SHOWERS AND TUBS.	EXTERIOR WALLS ADJACENT TO SHOWERS AND TUBS SHALL BE INSULATED.
ELECTRICAL/PHONE BOX ON EXTERIOR WALLS	THE AIR BARRIER SHALL BE INSTALLED BEHIND ELECTRICAL OR COMMUNICATION BOXES OR AIR-SEALED BOXES SHALL BE INSTALLED.	
HVAC REGISTER BOOTS	HVAC REGISTER BOOTS THAT PENETRATE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO THE SUBFLOOR OR DRYWALL.	
CONCEALED SPRINKLERS	WHEN REQUIRED TO BE SEALED, CONCEALED FIRE SPRINKLERS SHALL ONLY BE SEALED IN A MANNER THAT IS RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO SHALL ONLY BE SEALANTS SHALL ONLY BE USED.	

NOT BE USED TO FILL VOIDS BETWEEN FIRE SPRINKLER COVER PLATES AND WALLS OR CEILINGS. A. IN ADDITION, INSPECTION OF LOG WALLS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ICC-400

AIR SEALING CHECKLIST

AIR BARRIER	COMPLETION GUIDELINES
I. AIR BARRIER AND THERMAL BARRIER ALIGNMENT	AIR BARRIER IS IN ALIGNMENT WITH THE THERMAL BARRIER (INSULATION).
2. ATTIC AIR SEALING	TOP PLATES AND WALL-TO-CEILING CONNECTIONS ARE SEALED.
3. ATTIC KNEEWALLS	AIR BARRIER IS INSTALLED AT THE INSULATED BOUNDARY (KNEEWALL TRANSITION OR ROOF, AS APPROPRIATE).
4. DUCT SHAFT/PIPING SHAFT AND PENETRATIONS	OPENINGS FROM ATTIC TO CONDITIONED SPACE ARE SEALED.
5. DROPPED CEILING/SOFT	AIR BARRIER IS FULLY ALIGNED WITH INSULATION; ALL GAPS ARE FULLY SEALED.
6. STAIRCASE FRAMING AT EXTERIOR WALL/ATTIC	AIR BARRIER IS FULLY ALIGNED WITH INSULATION; ALL GAPS ARE FULLY SEALED.
7. PORCH ROOF	AIR BARRIER IS INSTALLED AT THE INTERSECTION OF THE PORCH ROOF AND EXTERIOR WALL.
8. FLUE OR CHIMNEY SHAFT	OPENING AROUND FLUE IS CLOSED WITH FLASHING, AND ANY REMAINING GAPS ARE SEALED WITH FIRE-RATED CAULK OR SEALANT.
9. ATTIC ACCESS/PULL-DOWN STAIR	ATTIC ACCESS PANEL OR DROP-DOWN STAIR IS FULLY GASKETED FOR AN AIR-TIGHT FT.
IO. RECESSED LIGHTING	FIXTURES ARE PROVIDED WITH AIR-TIGHT ASSEMBLY OR COVERING.
II. DUCTS	ALL DUCTS SHOULD BE SEALED, ESPECIALLY IN ATTICS, VENTED CRAWLSPACES, AND RIM AREAS.
12. WHOLE-HOUSE FAN	PENETRATION AT ATTIC AN INSULATED COVER IS PROVIDED THAT IS GASKETED OR SEALED TO THE OPENING FROM EITHER THE ATTIC SIDE OR CEILING SIDE OF THE FAN.
13. EXTERIOR WALLS	SERVICE PENETRATIONS ARE SEALED AND AIR SEALING IS IN PLACE BEHIND OR AROUND SHOWER/TUB ENCLOSURES, ELECTRICAL BOXES, SWITCHES, AND OUTLETS ON EXTERIOR WALLS.
14. FIREPLACE WALL	AIR SEALING IS COMPLETED IN FRAMED SHAFT BEHIND THE FIREPLACE OR AT FIREPLACE SURROUND.
15. GARAGE/LIVING SPACE WALLS	AIR SEALING IS COMPLETED BETWEEN GARAGE AND LIVING SPACE. PASS-THROUGH DOOR IS WEATHER STRIPPED.
16. CANTILEVERED FLOOR	CANTILEVERED FOORS ARE AIR SEALED AND INSULATED AT PERIMETER OR JOIST TRANSITION.
IT. RIM JOISTS, SEAL PLATE, FOUNDATION, AND FLOOR	RIM JOISTS ARE INSULATED AND INCLUDE AN AIR BARRIER. JUNCTION OF FOUNDATION AND SILL PLATE IS SEALED. PENETRATIONS THROUGH THE BOTTOM PLATE ARE SEALED. ALL LEAKS AT FOUNDATIONS, FLOOR JOISTS, AND FLOOR PENETRATIONS ARE SEALED. EXPOSED EARTH IN CRAWLSPACE IS COVERED WITH CLASS I VAPOR RETARDER OVERLAPPED AND TAPED AT SEAMS.
18. MINDOMS AND DOORS	SPACE BETWEEN WINDOW/DOOR JAMBS AND FRAMING IS SEALED.
19. COMMON WALLS BETWEEN ATTACHED DWELLING UNITS	THE GAP BETWEEN A GYPSUM SHAFT WALL (I.E., COMMON WALL) AND THE STRUCTURAL FRAMING BETWEEN UNITS IS SEALED.

TABLE (NIIO2.1.2) R402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT

	CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB R-VALUE DEPTH	CRAWL SPACE WALL R-VALUE
CODE	5A	.32	.55	NR	49	20 OR 13+5	13/17	30	15/19	10, 2FT	15/19
PROVIDED	5A	.32	N/A	.50 MAX	49	21	N/A	30	N/A	N/A	N/A

BROOKS (ARCHITECT WWW.BROOKSANDFAL

These drawings and specifications, including the ideas and arrangem common law, statutory and other reserved rights including copyright consent of the Architect...

REV. # DATE: DESCRIPTION:

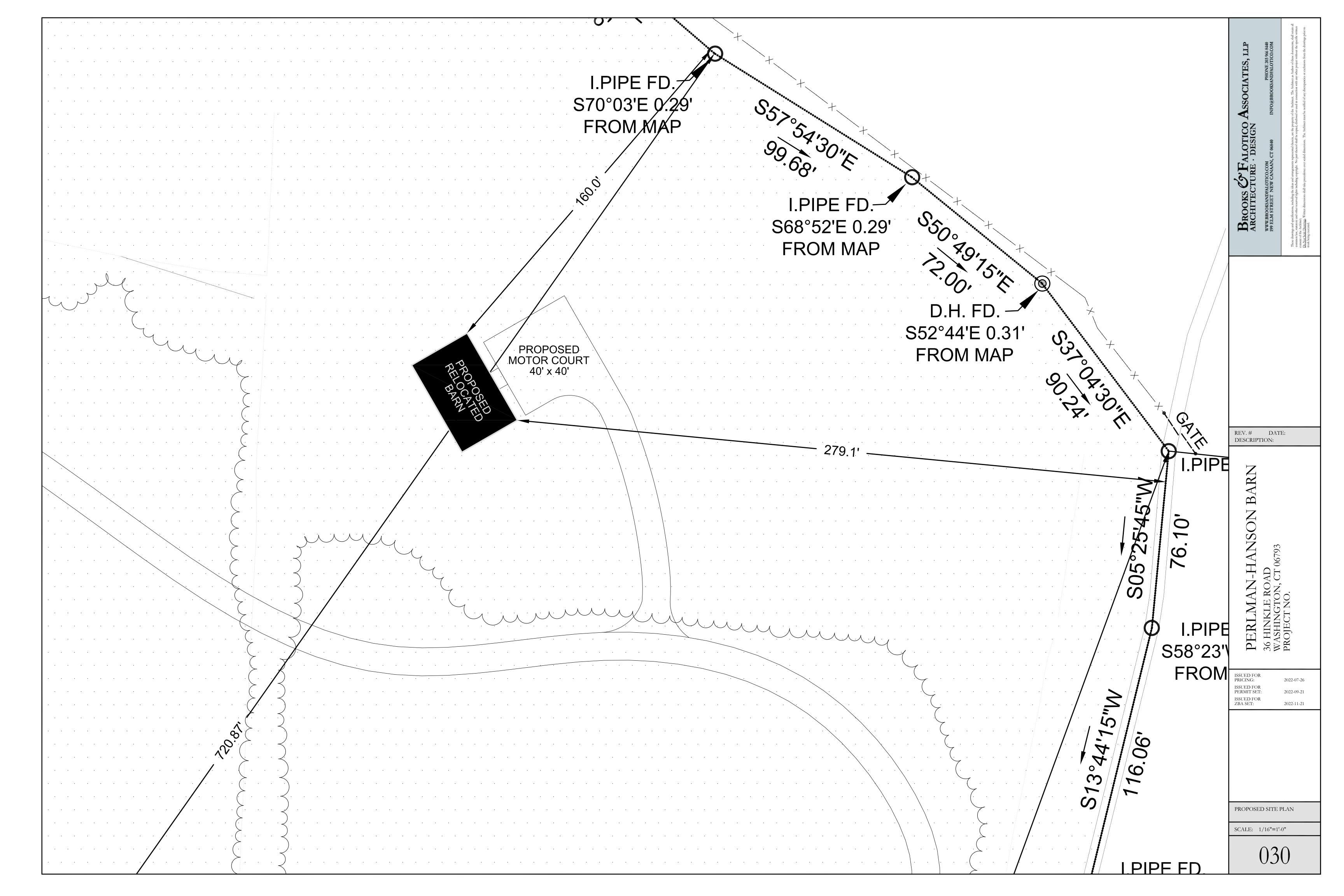
PERLMAN-HANSON BAG HINKLE ROAD
VASHINGTON, CT 06793

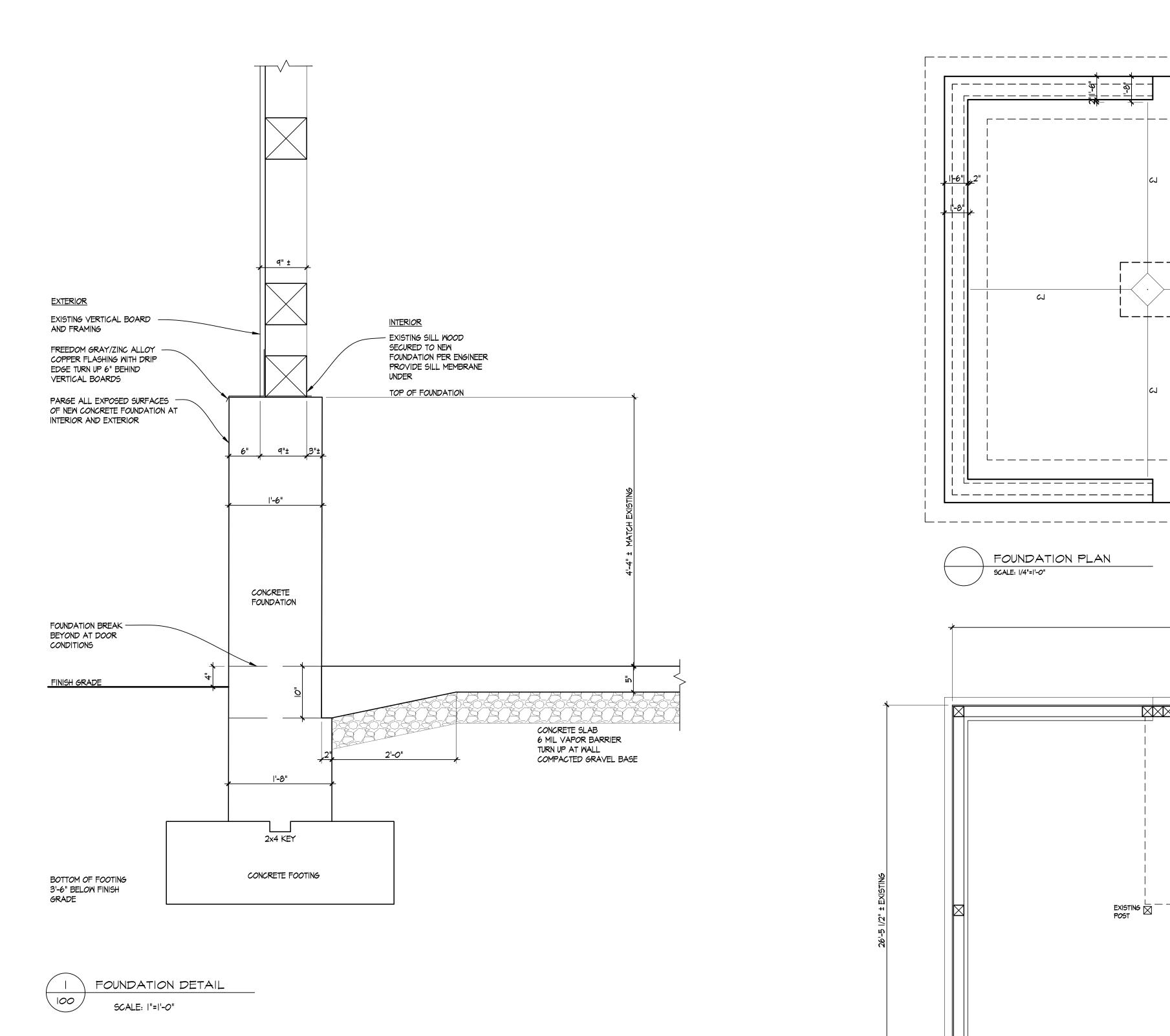
ISSUED FOR PRICING: 2022-07-26
ISSUED FOR PERMIT SET: 2022-09-21
ISSUED FOR ZBA SET: 2022-11-21

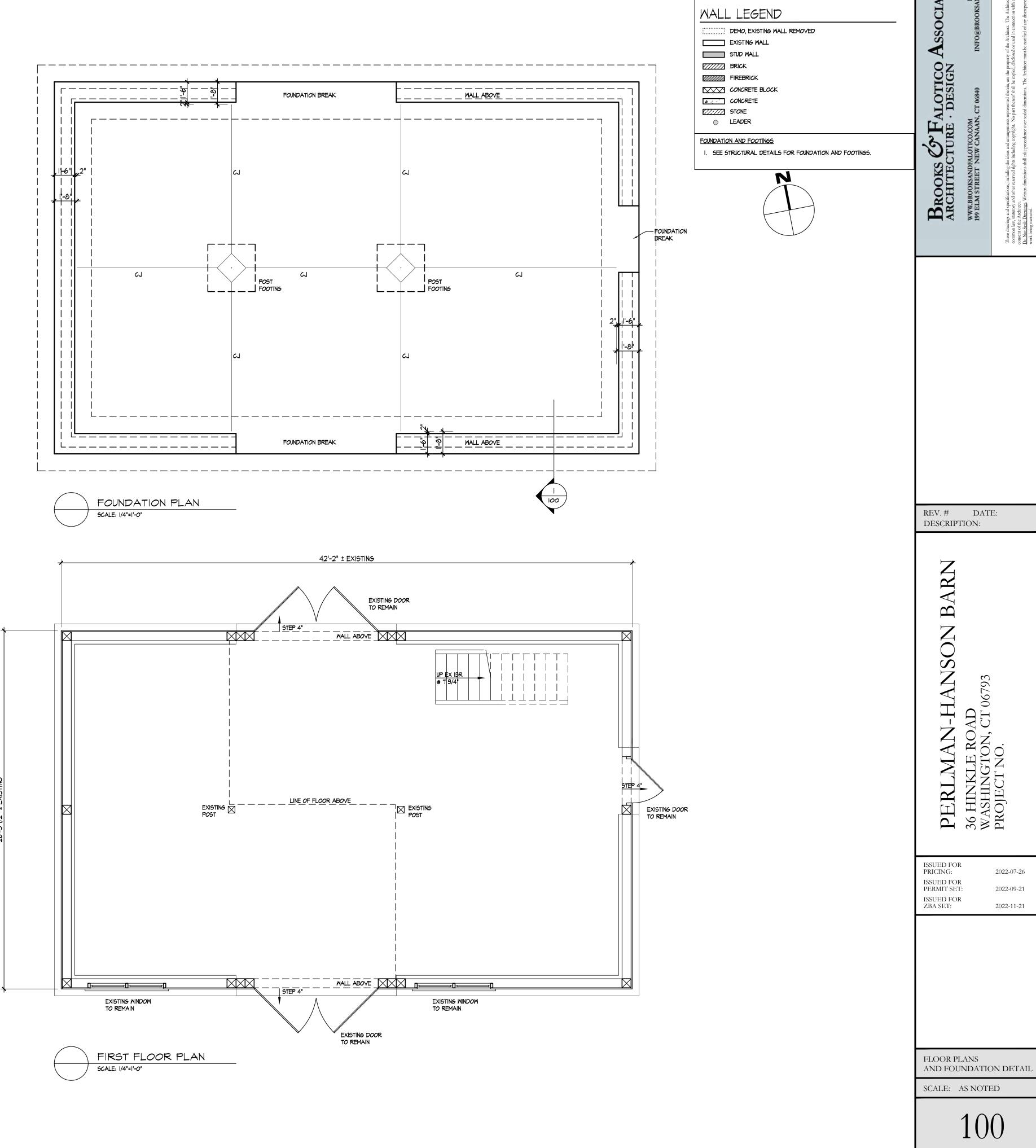
GENERAL NOTES

SCALE: N/A

010







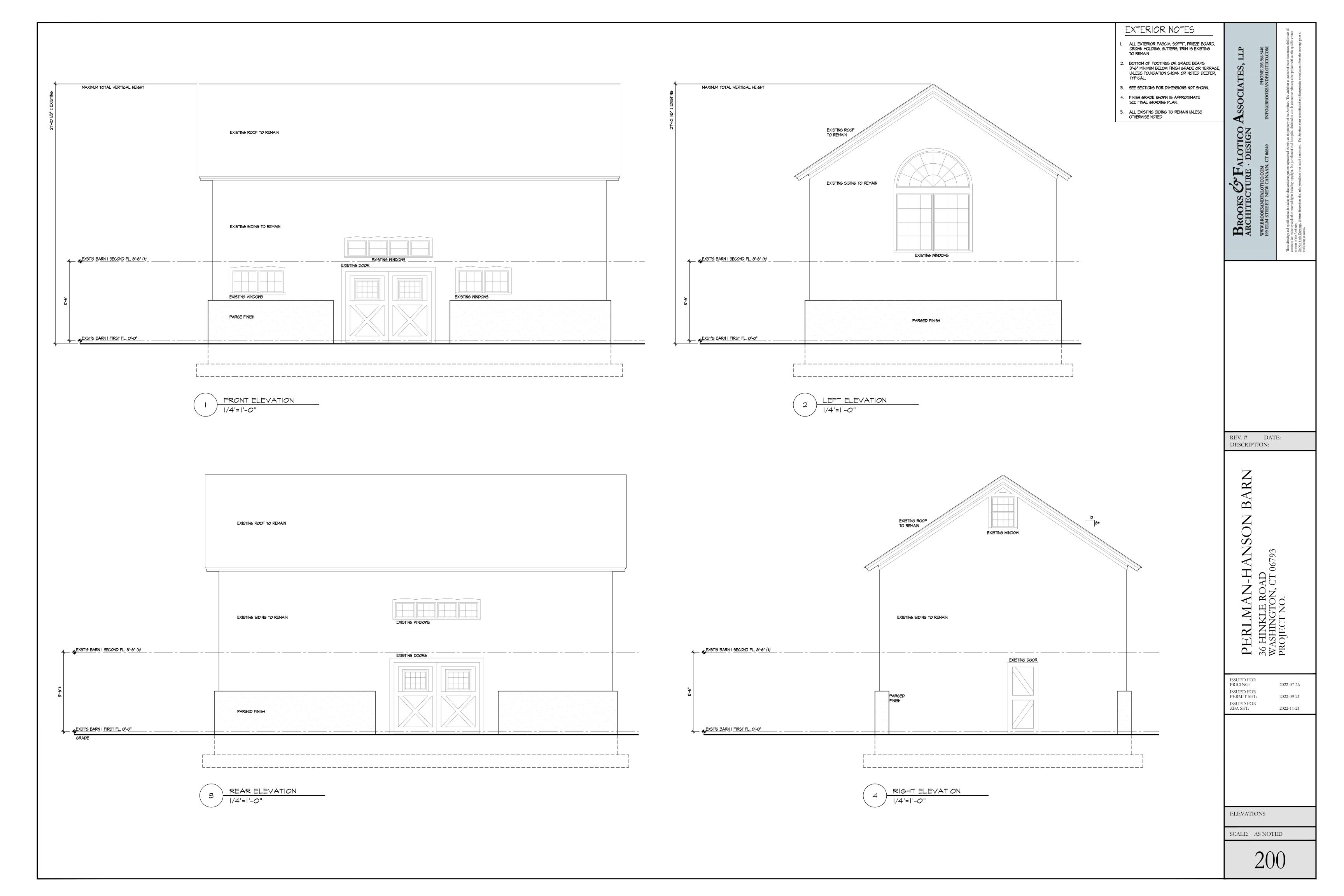
NOTES

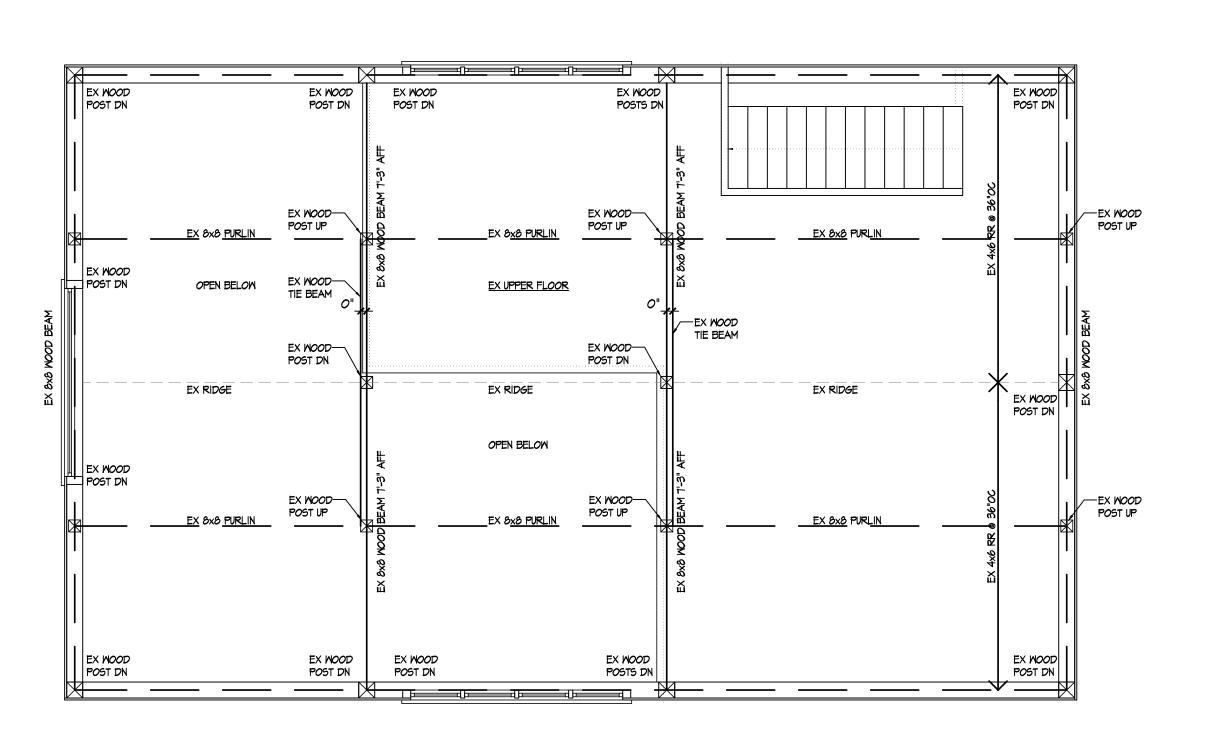
SHOWN ON THE DRAWINGS.

I. DO NOT SCALE THE DRAWINGS USE ONLY COMPUTED NUMERICAL DIMENSIONS

2. ALL DIMENSIONS ARE TO ROUGH FRAME UNLESS OTHERWISE NOTED OR SHOWN.
DOORS ARE DIMENSIONED TO CENTER LINES OR FROM ROUGH WALL CORNER TO
FINISH JAMB OPENING ADJUST DIMENSION FOR THICKNESS OF JAMB AND SHIM.

3. SEE FRAMING DRAWINGS FOR STRUCTURAL ELEMENTS, RAFTER, JOISTS, BEAMS POSTS, SLABS AND FOOTINGS, ETC.

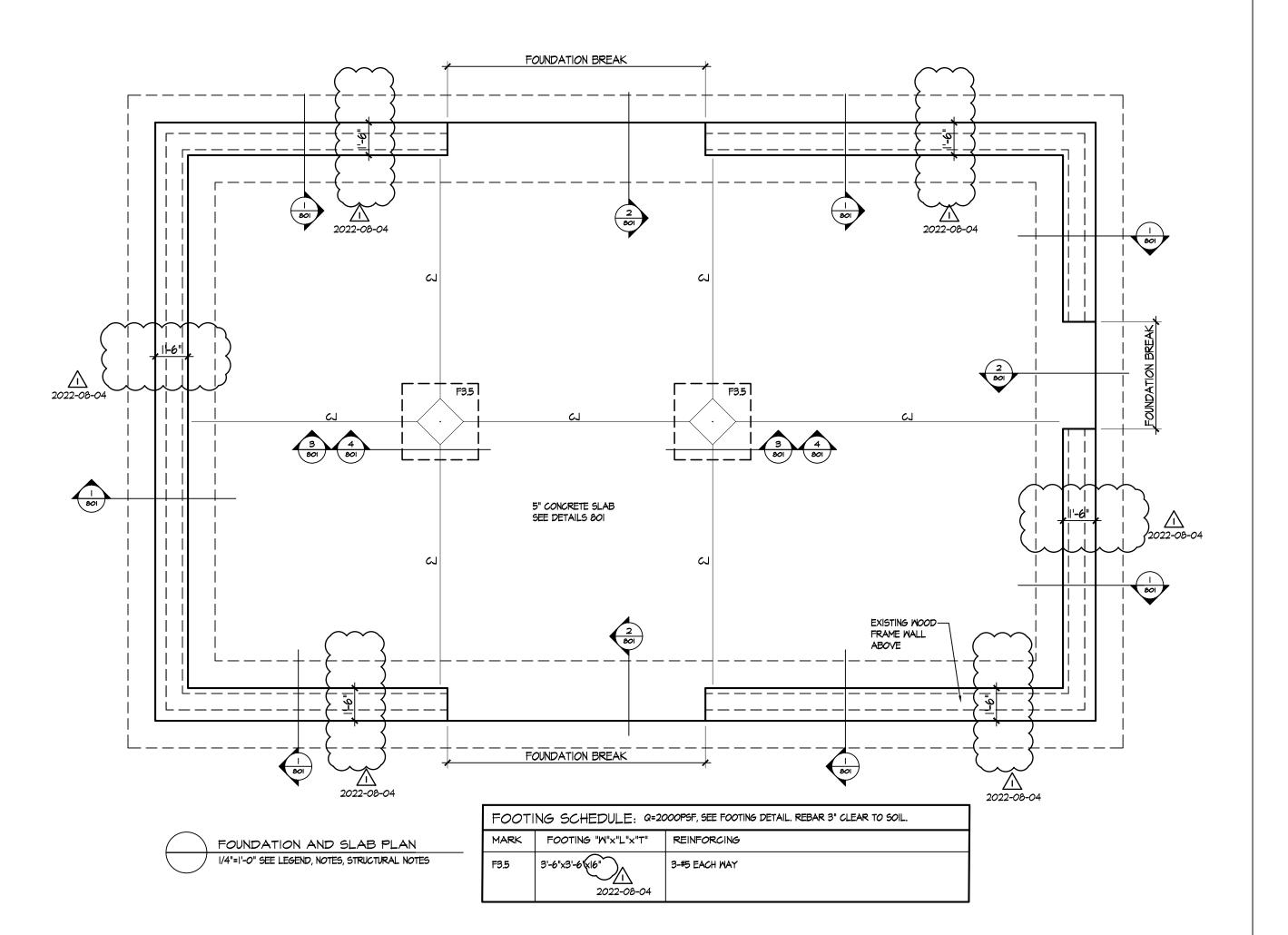




2022-08-04 HDU4-SDS2.5-/--- HDU4-SDS2.5 EX 8x8 POSTS POST , POSTS 2022-08-04 EX STAIR UP | + | | | | | EX 2x6 FJ @ 16"0C EX 2x6 FJ @ 16"0C OPEN ABOVE ___FLOOR_LINE_ABOVE__________________ EX 6x6 POST EX 8x8 EX 8x8— POST <u>EX BARN</u> OPEN ABOVE EX 2x6 FJ @ 16"0C EX 8x8─ —EX 8x8 POSTS POSTS -----P05I----HDU4-SDS2.5-2022-08-04 2022-08-04 EX SECOND FLOOR FRAMING 1/4"=1'-0" SHOWN OVER FIRST FLOOR SEE LEGEND, NOTES, STRUCTURAL NOTES

EX ROOF FRAMING

1/4"=1'-0" SHOWN OVER FIRST FLOOR
SEE LEGEND, NOTES, STRUCTURAL NOTES



LEGEND: ALL MAY NOT APPLY

CJ = 1 1/2" DEEP SAW CUT CONTROL JOINT CUT WITHIN 24 HOURS OF PLACING SLAB

HD= PROVIDE SIMPSON HDU2 HOLDOWN WITH 5/8" POOLT INTO FOUNDATION AT DOUBLE STUD END POST LOCATIONS INDICATED "HD" ON PLAN, SEE DETAILS

E = DOUBLE STUD, UNLESS NOTED OTHERWISE

MINIMUM OF TWO STUDS AT EACH END OF ALL FLUSH FRAMED

HEADERS OR BEAM, UNLESS MORE ARE INDICATED ON PLAN.

PROVIDE TWO JACK STUDS AND TWO FULL KING STUD AT

EACH END OF ALL DROPPED HEADERS MORE JACK AND KING

STUDS AS INDICATED ON PLAN.

DPA= COLUMN-POST ON BEAM, HEADER, OR GIRDER FROM ABOVE.

STRUCTURAL NOTES: ALL MAY NOT APPLY

I. GENERAL CONTRACTOR IS OBLIGATED TO REVIEW AND
COORDINATE SIZES OF ELECTRICAL, LIGHTING, MECHANICAL
AND PLUMBING INSTALLATIONS LOCATED ON PLANS BEFORE
FRAMING BEGINS, ADJUST FRAMING IN FIELD TO ACCOMMODATE
WHERE POSSIBLE. NOTIFY ARCHITECT FOR ADJUSTMENTS TO
THE ABOVE.

 CONTRACTOR TO VERIFY EXISTING FRAMING MEMBERS AND THEIR DIRECTIONS WHICH ARE NOT ACCESSIBLE TO VERIFY PRIOR TO PREPARATION OF THE DRAWINGS.

ABBREVIATIONS: ABW=ASSUMED EX-BEARING WALL BS=BOTH SIDES BW=BEARING WALL BMA=BEARING WALL ABOVE BMP=BRACED WALL PANEL BML=BRACED WALL LINE CH=CONCEALED HANGER D=DROP FF=FLUSH FRAME F@BOT=FLUSH AT BOTTOM F@TOP=FLUSH AT TOP H=HANGER J=JACK STUD K=KING STUD RBD=RIDGE BOARD RBM=RIDGE BEAM SH=SKEWED HANGER SD= SHOWER DRAIN ABOVE TD= TOILET DRAIN ABOVE TUBD=TUB DRAIN ABOVE TH=TOP MOUNT HANGER FLUSH AT TOP STEEL BEAMS TO HAVE 2x NAILER TIGHT TO FLANGES UNLESS OTHERWISE NOTED WWW.BROOKSANDFALOTICO.COM

199 ELM STREET NEW CANAAN, CT 06840

These drawings and specifications, including the ideas and arrangements represented therein, are the property of the Architect. The Architect as Auth connent of the Architect.

1 2022-08-04 UPDATED INFORMATION

REV. # DATE: DESCRIPTION:

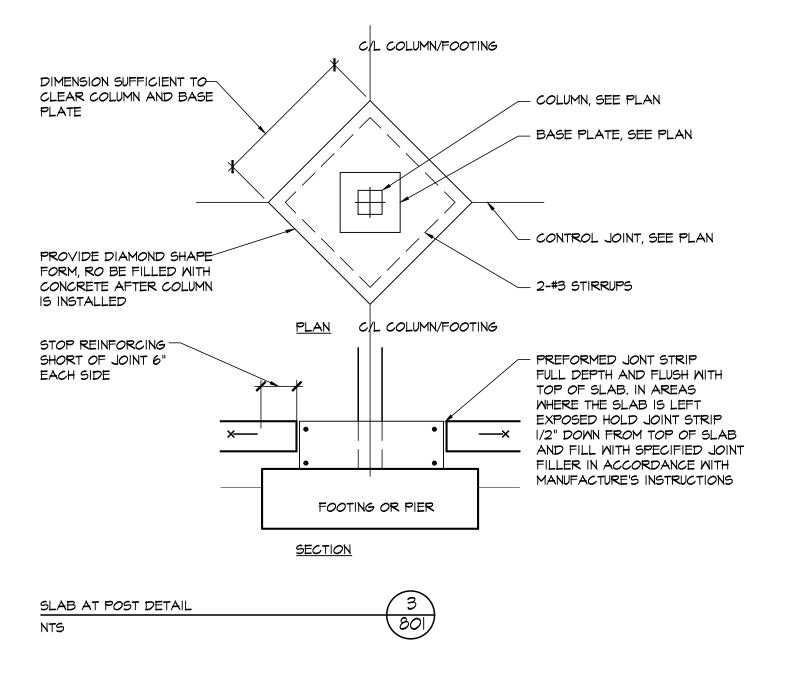
MAN-HANSON BAR TEROAD GTON, CT 06793 I NO.

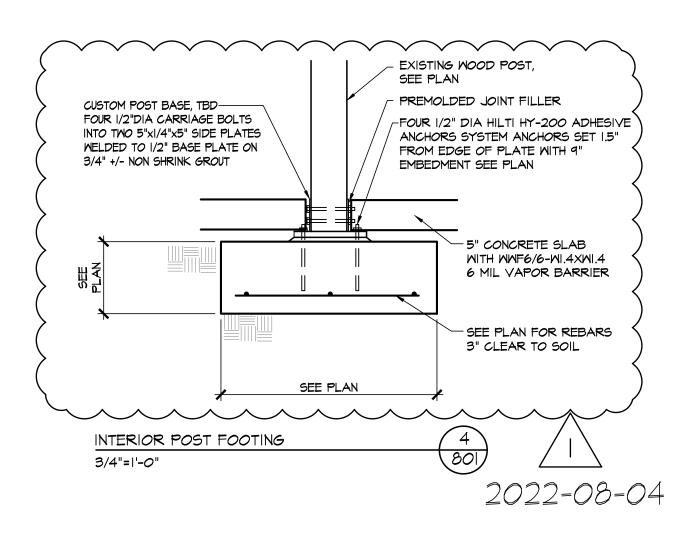
ISSUED FOR
PRICING: 2022-07-26
ISSUED FOR
PERMIT SET: 2022-09-21
ISSUED FOR
ZBA SET: 2022-11-21

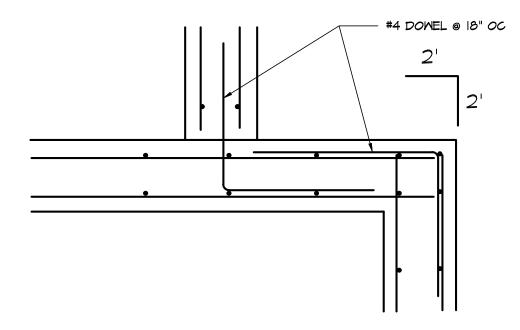
STRUCTURAL PLANS

SCALE: AS NOTED

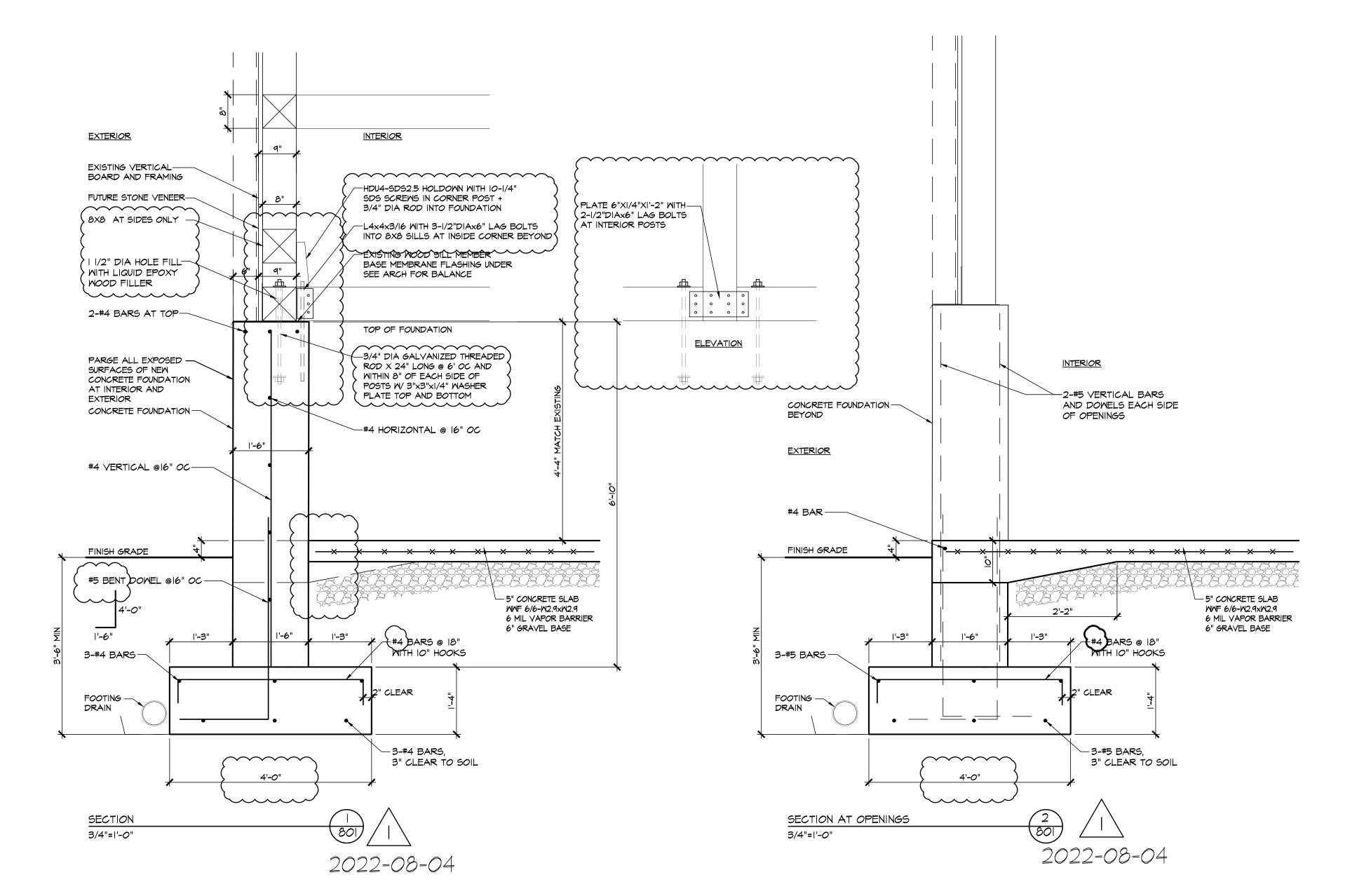
800







CORNER WALL REINFORCIING DETAIL



GENERAL NOTES

- . THE WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE 2015 INTERNATIONAL RESIDENTIAL CODE WITH AMENDMENTS AS ADOPTED BY THE 2018 STATE OF CONNECTICUT BUILDING CODE.
- 2. THE STRUCTURAL COMPONENTS HAVE BEEN DESIGNED FOR THE FOLLOWING LIVE

ROOF: GROUND SNOW AT 35 PSF ROOF DECK: FIRST FLOOR: 40 PSF SECOND FLOOR: ATTIC: 30 PSF INACCESSIBLE ATTIC SPACE: 20 PSF

WIND LOAD: 120 MPH ULTIMATE WIND SPEED, 93 MPH NOMINAL, EXPOSURE C, CATEGORY 2, I=I.O

BRACED WALL PANELS HAVE BEEN DESIGN IN ACCORDANCE WITH SECTION 602.10 OF THE 2015 IRC. WALLS NOT CONFORMING TO SECTION 602.10 HAVE BEEN DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES USING ASCET-10.

- COMPONENTS AND CLADDING ARE DESIGNED FOR WIND PRESSURES FROM TABLE R301.2(2) WALL ZONE WIND PRESSURE (PSF)
- 3 THIS WORK HAS BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION HAS BEEN COMPLETED. THE STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THIS RESPONSIBILITY EXTENDS TO ALL ASPECTS OF THE CONSTRUCTION ACTIVITY INCLUDING, BUT NOT LIMITED TO, JOBSITE SAFETY, ERECTION METHODS, ERECTION SEQUENCE, TEMPORARY BRACING AND SHORING, USE OF EQUIPMENT AND SIMILAR CONSTRUCTION PROCEDURES. REVIEW OF CONSTRUCTION BY THE ENGINEER IS FOR CONFORMANCE WITH THE DESIGN ASPECTS ONLY, NOT TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.
- 4 SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS.

FOUNDATION NOTES

- I THE FOUNDATIONS HAVE BEEN DESIGNED TO REST ON UNDISTURBED CLASS GW. GP, SM, SP, SM, SC, GM, and GC HAVING A PRESUMPTIVE BEARING VALUE OF 2,000 PSF. IF PREDOMINANTLY CLAYEY AND/OR SILTY SOILS OR FILL IS ENCOUNTERED BENEATH FOOTINGS, THE MATERIAL SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.
- 2 THE BOTTOM OF EXTERIOR FOOTINGS NOT ON SOLID ROCK SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. FOOTINGS ON LEDGE SHALL REST ON BROOM CLEAN SOLID ROCK. IF THE SLOPE OF THE ROCK SURFACE EXCEEDS I ON 6, THE FOOTING SHALL BE DOWELED TO THE LEDGE WITH 3/4" STEEL RODS DRILLED IO INCHES INTO THE ROCK SURFACE AT 2 FEET ON CENTER.
- 3 IN AREAS REQUIRING FILL, THE FILL MATERIAL SHALL BE A UNIFORMLY GRADED MIXTURE OF SAND AND GRAVEL WEIGHING NO LESS THAN 120 PCF DRY DENSITY AFTER COMPACTION IN PLACE. THIS MIXTURE SHALL BE UNIFORMLY GRADED HAVING NO STONE GREATER THAN 3 INCHES IN ANY ONE DIMENSION, AND WITH LESS THAN 10%, BY WEIGHT, PASSING A #100 SIEVE. THE FILL SHALL BE PLACED IN MAXIMUM LIFTS OF 8 INCHES BEFORE COMPACTION. EACH LIFT SHALL BE COMPACTED WITH APPROPRIATE EQUIPMENT TO A MINIMUM OF 95% OF ITS MAXIMUM DENSITY AT OR NEAR OPTIMUM MOISTURE. A SOILS TESTING LAB, HIRED BY THE OWNER, SHALL TEST THE MATERIAL BEFORE AND AFTER COMPACTION FOR CONFORMANCE WITH THIS SPECIFICATION. NO LIFTS SHALL BE PLACED WHEN WEATHER CONDITIONS ARE SUCH THAT THE MOISTURE CONTENT OF THE FILL CANNOT BE PROPERLY CONTROLLED. IN PLACING AND COMPACTING FILL AND BACKFILL MATERIAL, DO NOT DAMAGE NOR DISPLACE CONCRETE WORK ALREADY IN PLACE BY CONTACT FROM COMPACTION MACHINERY, BY SUBJECTING IT TO OVERTURNING FROM HEAVY COMPACTING LOADING, OR ANY OTHER CAUSE. BRING FILL AGAINST SUCH CONCRETE AT THE SAME RATE AS THE REMAINDER OF FILL, COMPACTING UNIFORMLY ON BOTH SIDES USING HAND OPERATED TAMPERS.
- 4 THE SLAB-ON-GRADE SUB-BASE SHALL BE STONE OR TRAP ROCK PASSING A 2 INCH SIEVE AND RETAINED ON A 1/2 INCH SIEVE.
- 5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING POURS TO MINIMIZE SHRINKAGE CRACKING. IN GENERAL, WALLS SHALL NOT BE POURED IN CONTINUOUS LENGTHS EXCEEDING 30 FEET AND SLABS NOT EXCEEDING 20 FEET WITHOUT CONTROL JOINTS. THE LOCATION AND CONFIGURATION OF JOINTS EXPOSED TO VIEW SHALL BE COORDINATED WITH THE ARCHITECT.
- 6 SEE SECTIONS FOR MINIMUM ANCHOR BOLT REQUIREMENTS. EMBED ANCHOR BOLTS A MINIMUM OF 8 INCHES INTO CONCRETE OR GROUTED MASONRY. INSTALL BOLTS WITHIN 12 INCHES OF END OF SILL PLATE ON ALL EXTERIOR WALLS. PROVIDE 3"X3"X3/16" WASHER PLATE ON ALL ANCHOR BOLTS PROVIDE 3" HOOK ON BOLTS. ADHESIVE ANCHORS MAY BE SUBSTITUTED FOR ANCHOR BOLTS. 7 SIZES AND LOCATIONS OF ALL REQUIRED EMBEDDED ITEMS FOR ALL TRADES SUCH
- AS ANCHOR BOLTS, PIPING SLEEVES, HOLD DOWN ANCHORS, ETC. SHALL BE COORDINATED BY THE GENERAL CONTRACTOR WITH OTHER TRADES.
- 8 STEP FOOTING A MAXIMUM OF I FT VERTICAL ON 2 FT HORIZONTAL. PLACE LOWER

CONCRETE NOTES

- I CONCRETE FOR FOUNDATIONS, FLOOR SLABS, AND SLAB-ON-GRADE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL DEVELOP A COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS. CONCRETE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 3/4", MINIMUM CEMENT CONTENT OF 560 LBS/CU YD., AND A MAXIMUM SLUMP OF 4 INCHES.
- 2 CONCRETE EXPOSED TO THE WEATHER, SUCH AS THAT USED IN FOUNDATION
- WALLS AND EXTERIOR SLABS, SHALL CONTAIN 6% ENTRAINED AIR. 3 REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
- 4 PROVIDE I 1/8"X I 1/4" DEEP SAW CUT CONTROL JOINTS AT 20' O/C MAXIMUM EACH WAY IN ALL PORCH AND GARAGE SLABS ON GRADE. CUT JOINTS WITHIN 24 HOURS OF PLACING THE SLAB.
- 5 PROVIDE 2-#4 BARS OVER AND EACH SIDE OF ALL OPENING IN WALLS. BARS TO BE I I/2" CLEAR OF AND EXTEND I2 INCHES PAST OPENING.
- 6 CONCRETE USED FOR EXTERIOR WALKWAYS AND SLABS SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.45.
- 7 PROVIDE THE FOLLOWING CLEARANCES FOR REINFORCING STEEL TO: CAST AGAINST SOIL EXPOSED TO WEATHER (FORMED) | 1/2"
- NOT EXPOSED TO WEATHER 6. ALL WORK TO BE PERFORMED IN CONFORMANCE WITH THE LATEST STANDARDS FOR
- 9. ALL CONCRETE OR MASONRY WORK SHALL BE DONE DURING TEMPERATURES OF 28 DEGREES F. AND RISING MIN.
- 10. NO CONCRETE SHALL BE PLACED ON FROZEN SURFACES.

PLACEMENT OF CONCRETE AS SET BY THE A.C.I.

- II. NO ADDITIVES SHALL BE ALLOWED WITHOUT WRITTEN PERMISSION OF THE ARCHITECT.
- 12. PROVIDE ALL SLEEVES AND FOUNDATIONS VENTS AS REQUIRED BY CODE.
- 13. PROVIDE WALL REINFORCING AS INDICATED ON THE STRUCTURAL PLAN.
- 14. PROVIDE BITUMEN EXPANSION JOINTS BETWEEN SLABS AND FOUNDATION WALLS.
- 15. PROVIDE WELDED WIRE MESH REINFORCED IN SLABS AS INDICATED ON THE DRAWINGS.
- 16. CONTRACTOR TO CHECK CONCRETE DELIVERY TICKETS AND CONCRETE SLUMP FROM EACH TRUCK.
- 17. ALL CONCRETE TO BE POURED MONOLITHICALLY, WITHOUT COLD JOINTS, UNLESS SHOWN OTHERWISE OR PERMISSION IS OBTAINED IN WRITING FROM THE ARCHITECT PRIOR TO PLACEMENT.

2022-08-04 UPDATED INFORMATION

REV. # DATE: DESCRIPTION:

ISSUED FOR 2022-07-26 PRICING: ISSUED FOR PERMIT SET: 2022-09-21 ISSUED FOR ZBA SET: 2022-11-21

STRUCTURAL SECTION AND DETAILS

SCALE: AS NOTED







BROOKS & FALOTICO ARCHITECTURE - DESIGN

REV. # DATE: DESCRIPTION:

ISSUED FOR PRICING: ISSUED FOR PERMIT SET:

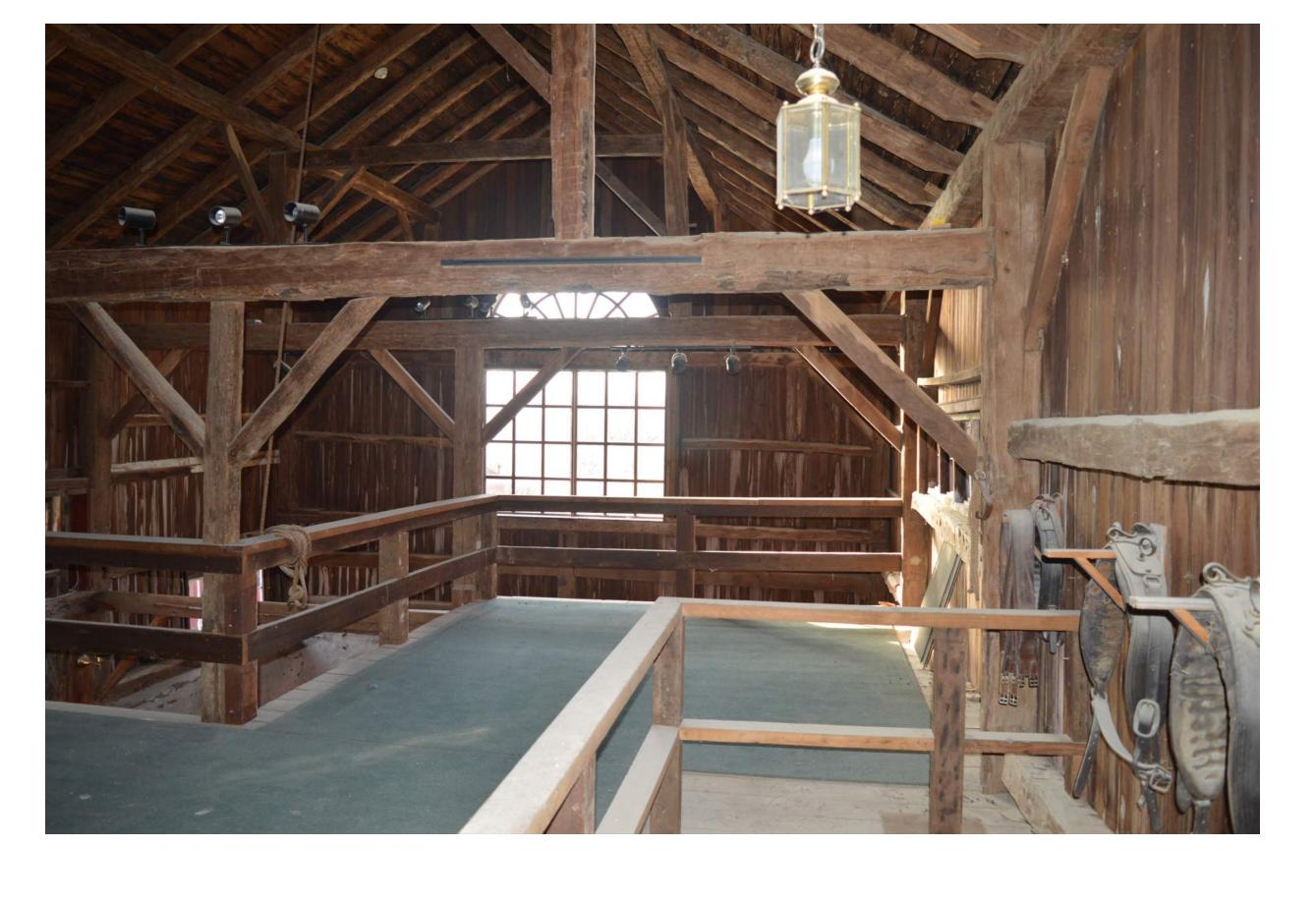
2022-07-26 2022-09-21 ISSUED FOR ZBA SET: 2022-11-21

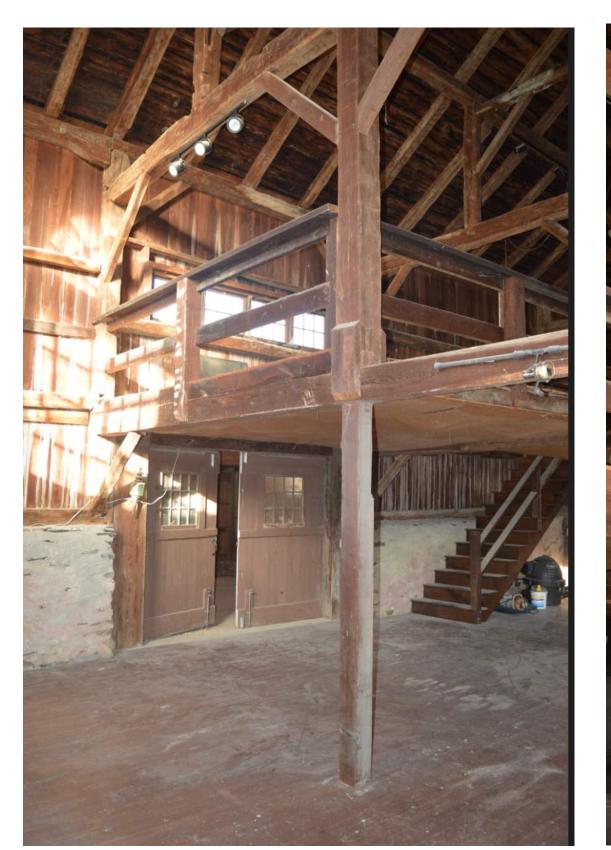
EXISTING PHOTOGRAPHS

SCALE: NA

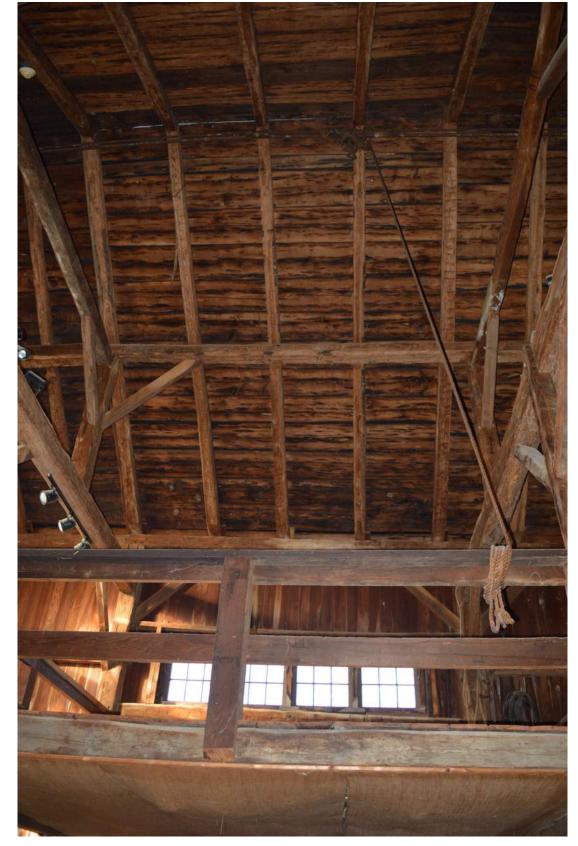
PICS

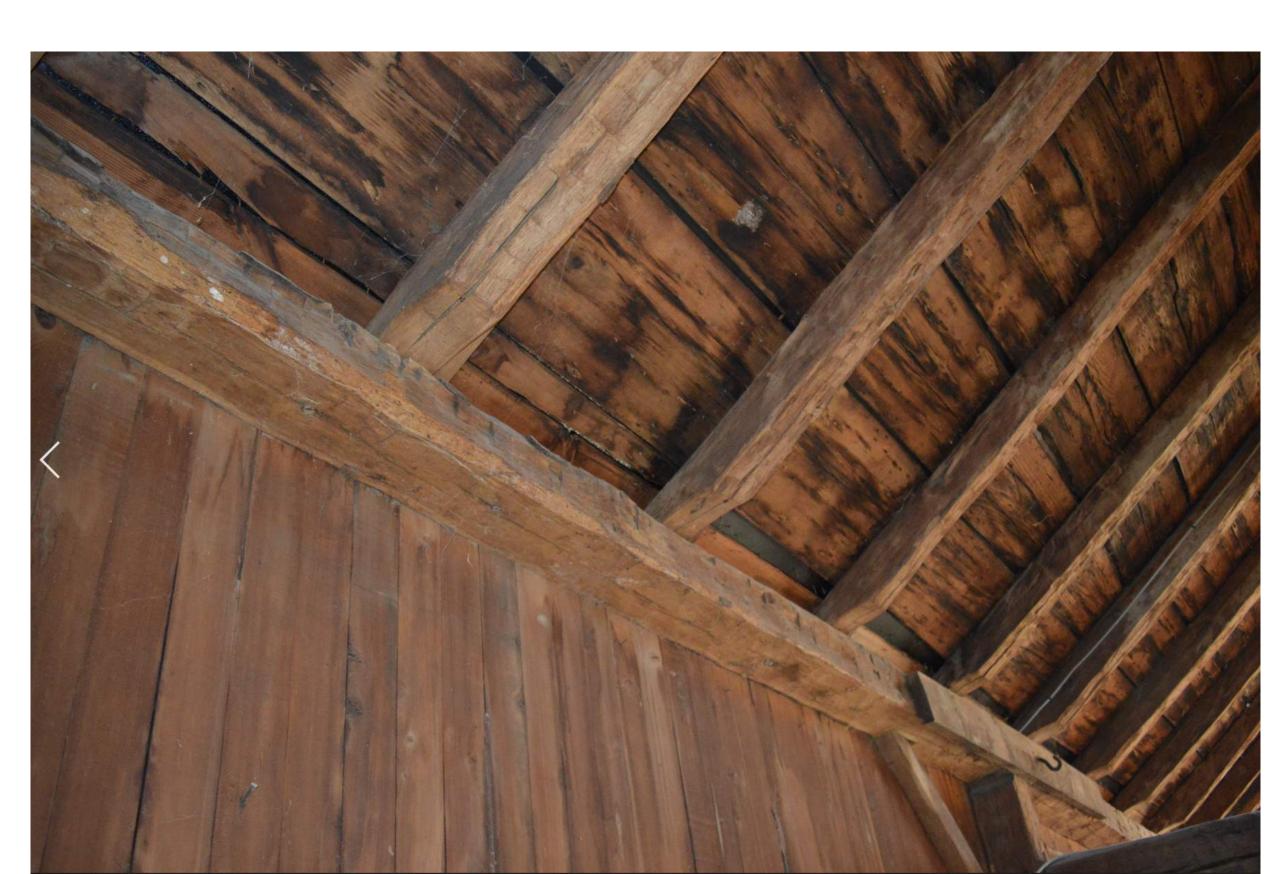












BROOKS & FALOTICO ARCHITECTURE - DESIGN

REV. # DATE: DESCRIPTION:

SCALE: NA

EXISTING PHOTOGRAPHS

ISSUED FOR PRICING:

ISSUED FOR PERMIT SET:

ISSUED FOR ZBA SET:

2022-07-26

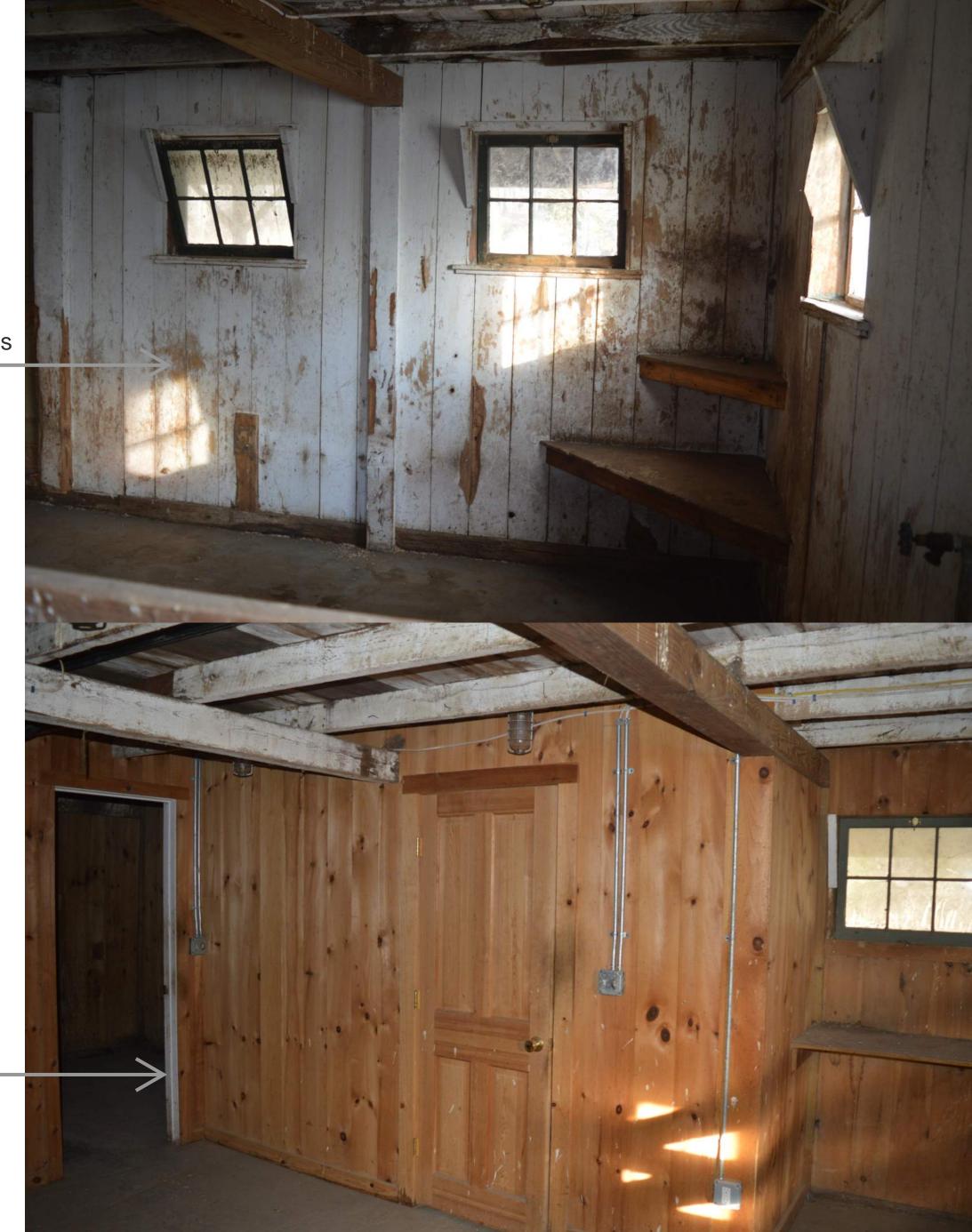
2022-09-21

2022-11-21



Roof made of modern lumber, rafter clips, and hangers. Not original to barns.

Interior damaged by animals



Open to weather at all times, wood is rotted in many locations.

Materials not original to main barn

Large gaps in wall material allowed in weather and deteriorated materials

REV. # DAT DESCRIPTION:

BROOKS & FALOTICO ASSOCIATES, LLP ARCHITECTURE - DESIGN

WWW.BROOKSANDFALOTICO.COM

WWW.BROOKSANDFALOTICO.COM

I99 ELM STREET NEW CANAAN, CT 06840

INFO@BROOKSANDFALOTICO.COM

MAN-HANSON BARN
LE ROAD

ISSUED FOR PRICING:

ISSUED FOR
PRICING: 2022-07-26

ISSUED FOR
PERMIT SET: 2022-09-21

ISSUED FOR
ZBA SET: 2022-11-21

EXISTING PHOTOGRAPHS

SCALE: NA

PICS