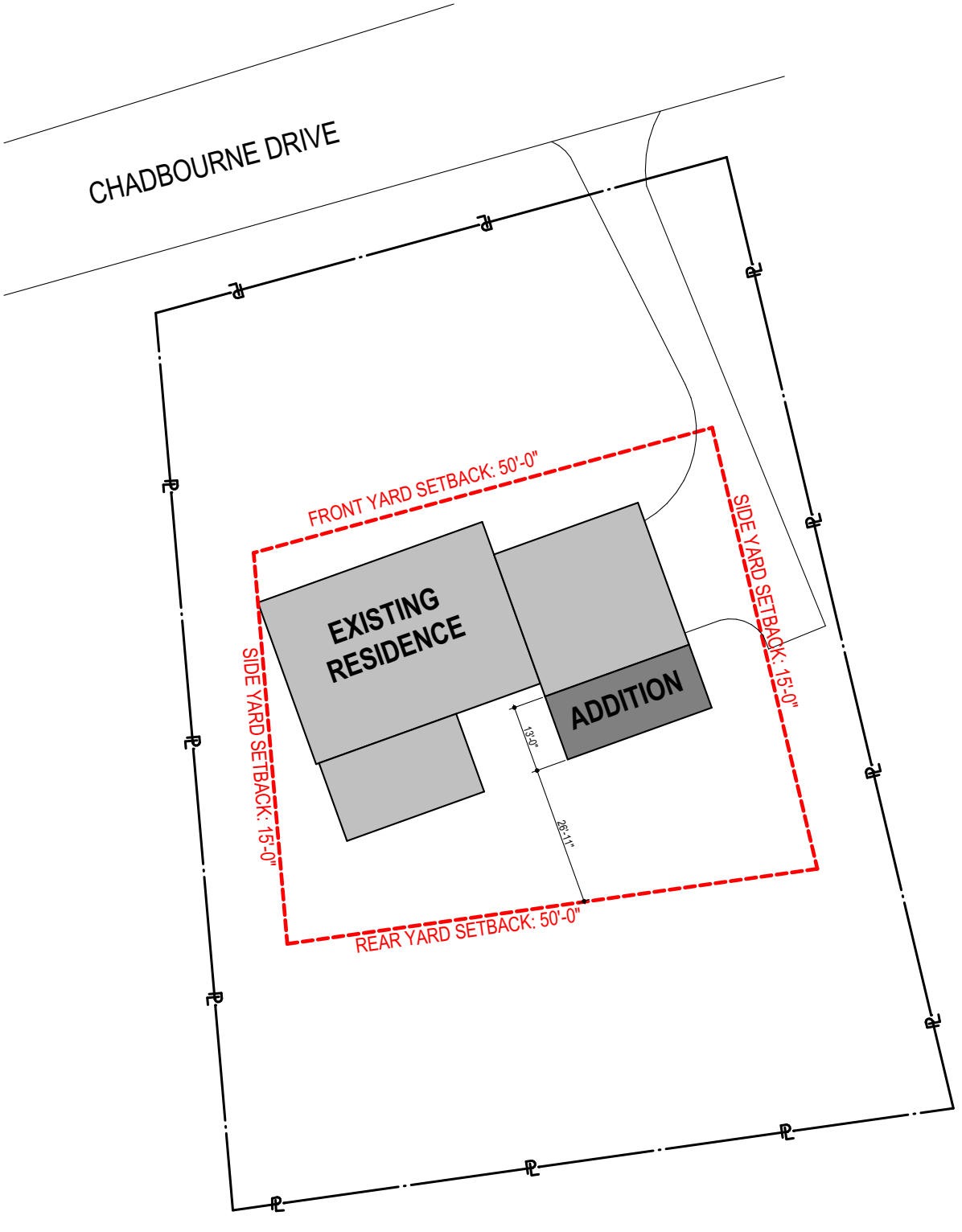
SITE PLAN


CHADBOURNE DRIVE
FRONT YARD SETBACK: 50'-0"
SIDE YARD SETBACK: 15'-0"
SIDE YARD SETBACK: 15'-0"
REAR YARD SETBACK: 50'-0"
EXISTING RESIDENCE
ADDITION
13'-0"
26'-11"

ROBINSON RESIDENCE

PROJECT INFORMATION

CITY	HUDSON
COUNTY	SUMMIT COUNTY
PARCEL NO	3201916
ZONING	DISTRICT 3 | OUTER VILLAGE RESIDENTIAL NEIGHBORHOOD
PROJECT	AN ADDITION OF A SINGLE CAR GARAGE AND NEW SECOND FLOOR OVER THE EXISTING GARAGE

PROJECT TEAM

ARCHITECT:

HARA ARCHITECTS
HUDSON, OHIO
P: 419.410.6241

CONTACT: NATE BAILEY

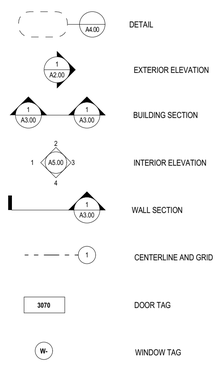
DRAWING INDEX

G100	COVER SHEET	03/04/2024
A101	FLOOR & FOUNDATION PLAN	03/04/2024
A102	FLOOR & ROOF PLAN	03/04/2024
A301	EXTERIOR ELEVATIONS	03/04/2024
S100	STRUCTURAL NOTES	03/04/2024

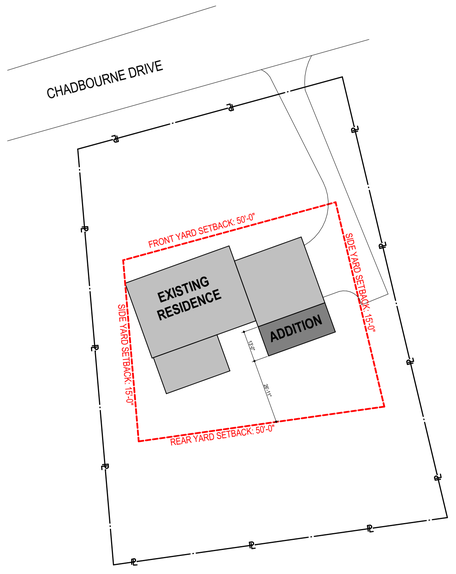
ABBREVIATIONS

ABV	ABOVE
A/C	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AHJ	AUTHORITY HAVING JURISDICTION
ALUM	ALUMINUM
APPROX.	APPROXIMATELY
ARCH	ARCHITECTURAL
ASPH	ASPHALT
BD	BOARD
BLDG	BUILDING
BOTT	BOTTOM OF
BRG	BEARING
BOTT	BOTTOM
BTW	BETWEEN
CF	CUBIC FEET
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CO	CLEAN OUT
CONT	CONTINUOUS
DBL	DOUBLE
DEPT	DEPARTMENT
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
EA	EACH
ELEC	ELECTRICAL
EQ	EQUAL
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN.	FINISHED
FLR	FLOOR
FT	FOOT
FTG	FOOTING
FUR	FURRING
GALV	GALVANIZED
GA	GAUGE
GC	GENERAL CONTRACTOR
GYP. BD.	GYPSUM BOARD
GYP	GYPSUM
HC	HOLLOW CORE
HDWR.	HARDWARE
HM	HOLLOW METAL
HVAC	HEATING, VENTILATION, AND AIR COND.
HT	HEIGHT
INSUL	INSULATION
JST	JOIST
LAM	LAMINATED
LF	LINEAR FOOT
MAS	MASONRY
MATL	MATERIAL
MAX.	MAXIMUM
MECH	MECHANICAL
MFG.	MANUFACTURER
MIN.	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NOM	NOMINAL
NTS	NOT TO SCALE
O/	OVER
O.C.	ON CENTER
OPN	OPENING
PREFAB	PREFABRICATED
PLYWD	PLYWOOD
P. LAM	PLASTIC LAMINATE
PR	PAIR
PSI	POUNDS PER SQUARE INCH
REF	REFERENCE
RM	ROOM
RO	ROUGH OPENING
REQ	REQUIRED
SC	SOLID CORE
SECT	SECTION
SIM.	SIMILAR
STRUC	STRUCTURAL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WWF	WELDED WIRE FABRIC

DRAWING SYMBOLS



SITE PLAN



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.

HARA ARCHITECTS

haraarchitects.com

PROJECT TEAM:

ARCHITECT
HARA ARCHITECTS

STRUCTURAL

ROBINSON RESIDENCE
134 CHADBOURNE DRIVE, HUDSON, OHIO 44236

PROJECT #: 2405

ISSUE	ID	DATE
AHBR	A	03/04/2024

PROGRESS

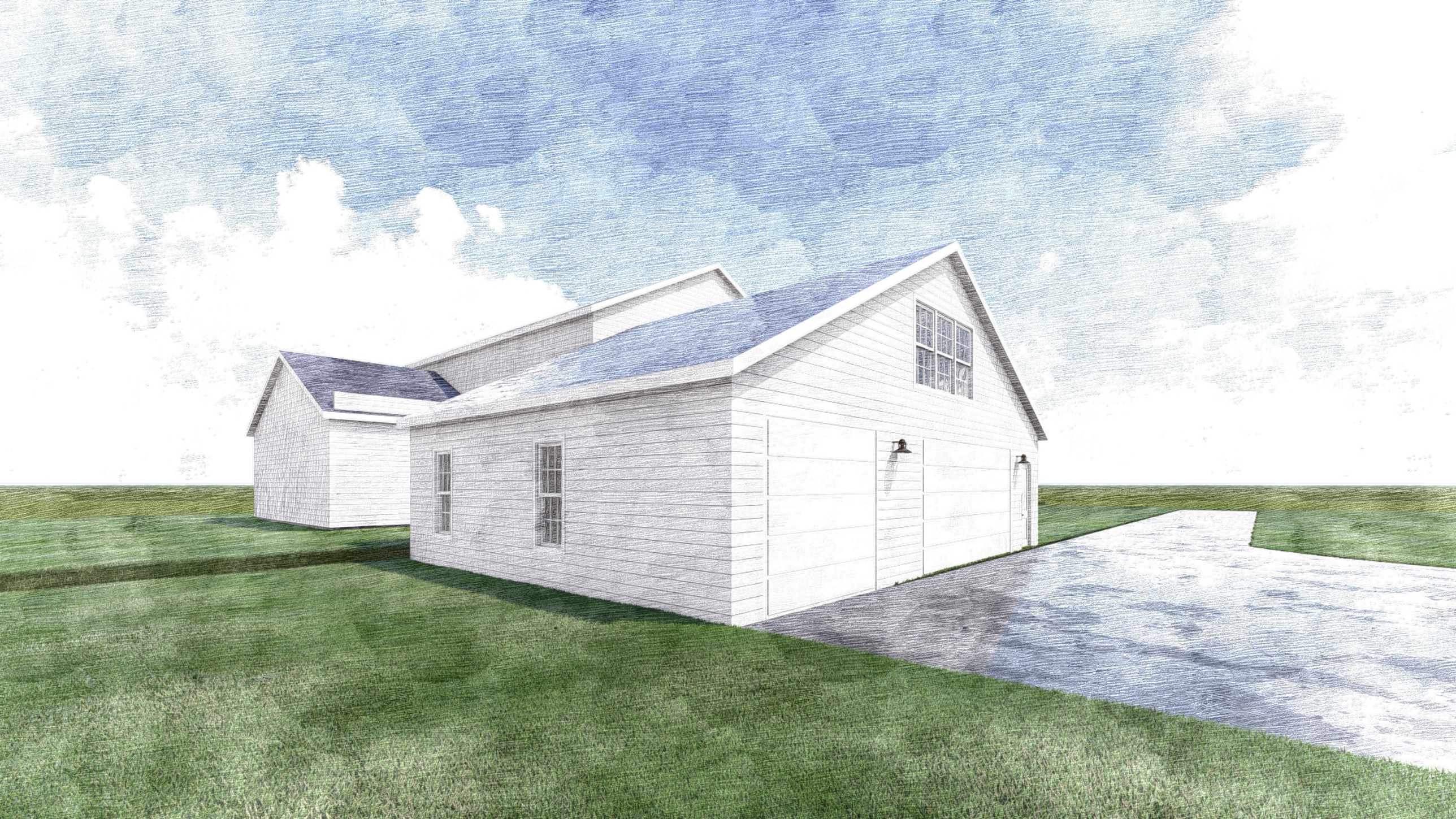
NOT FOR CONSTRUCTION

3/8/2024

COVER SHEET

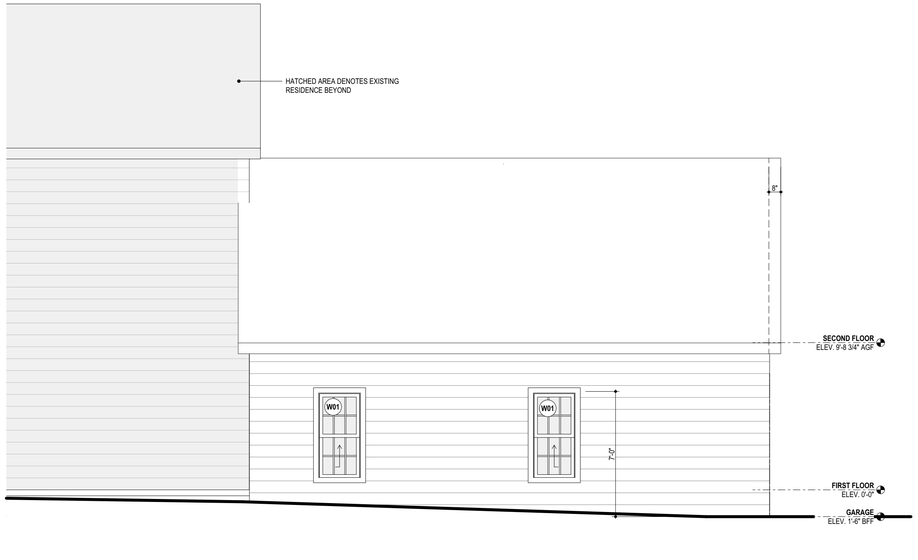
G100

Printed: Friday, March 8, 2024



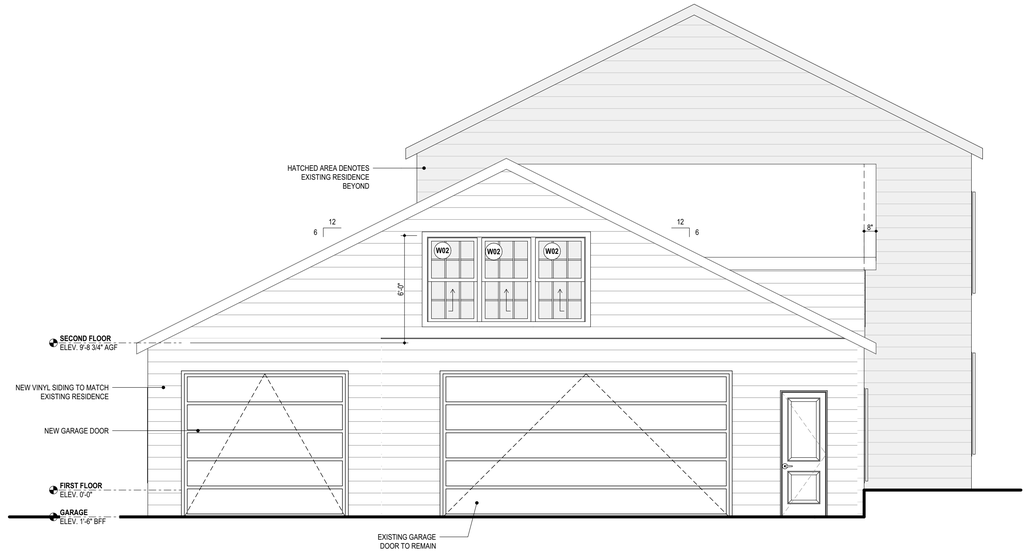
1 FRONT OF HOUSE ELEVATION

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



2 REAR OF HOUSE ELEVATION

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



3 SIDE OF HOUSE ELEVATION

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

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-19 BATT INSULATION

LAP SIDING
VINYL SIDING TO MATCH EXPOSURE AND COLOR OF EXISTING RESIDENCE.

ASPHALT SHINGLE ROOF (R-1)
30 YEAR ARCHITECTURAL SHINGLE
O/ MANUFACTURER'S RECOMMENDED UNDERLAYMENT
O/ 1/2X2' 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.

EXTERIOR ELEVATION GENERAL NOTES

ROOF SOFFITS TO MATCH EXISTING RESIDENCE UNLESS NOTED OTHERWISE.

ALL FIBER CEMENT EXTERIOR TRIM TO BE AZEK OR BORAL, PAINTED, OR APPROVED EQUAL.

ALL EXPOSED WOOD ELEMENTS AND TONGUE AND GROOVE CEILINGS IS TO BE DOUG FIR, STAINED AND SEALED. COORDINATE FINAL COLOR WITH ARCHITECT AND OWNER

ALL ROOF PENETRATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLTION TO ENSURE AESTHETIC EXPECTATIONS ARE MAINTAINED.

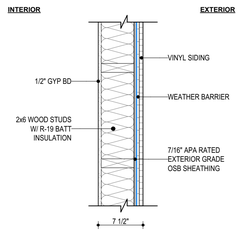
GUTTER PROFILES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING

SAFETY GLAZING TO BE IN ACCORDANCE WITH THE 2019 RESIDENTIAL CODE OF OHIO (SECTION R308)

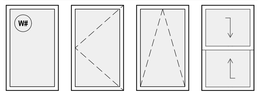
BEDROOM EGRESS WINDOWS TO COMPLY WITH THE 2019 RESIDENTIAL CODE OF OHIO (SECTION R310)

EXTERIOR WALL TYPES

NOTE: WALL INFORMATION IS DEMONSTRATED IN PLAN VIEW



WINDOW LEGEND



BASIS OF DESIGN:

WINDOWS ARE TO BE PELLA FIBERGLASS WINDOWS OR APPROVED EQUAL.

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 DOCUMENTS.**

WINDOW AND DOOR REMARKS

1.
2.

WINDOW SCHEDULE

ID	QTY	W x H	REMARKS
W01	3	2'-6"×5'-0"	
W02	5	3'-0"×5'-0"	

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PROJECT TEAM:

ARCHITECT
HARA ARCHITECTS

STRUCTURAL

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PROJECT #: 2405

ISSUE	ID	DATE
AHBR	A	03/04/2024

PROGRESS

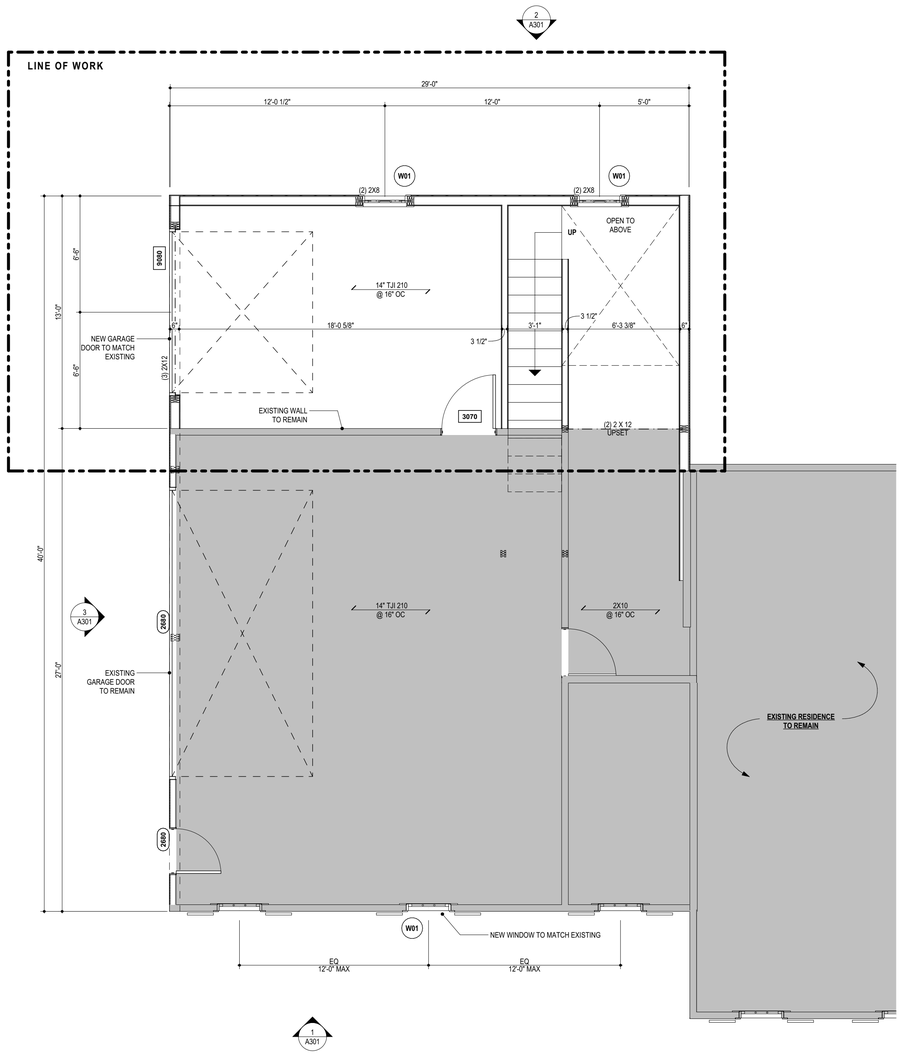
NOT FOR CONSTRUCTION

3/3/2024

EXTERIOR ELEVATIONS

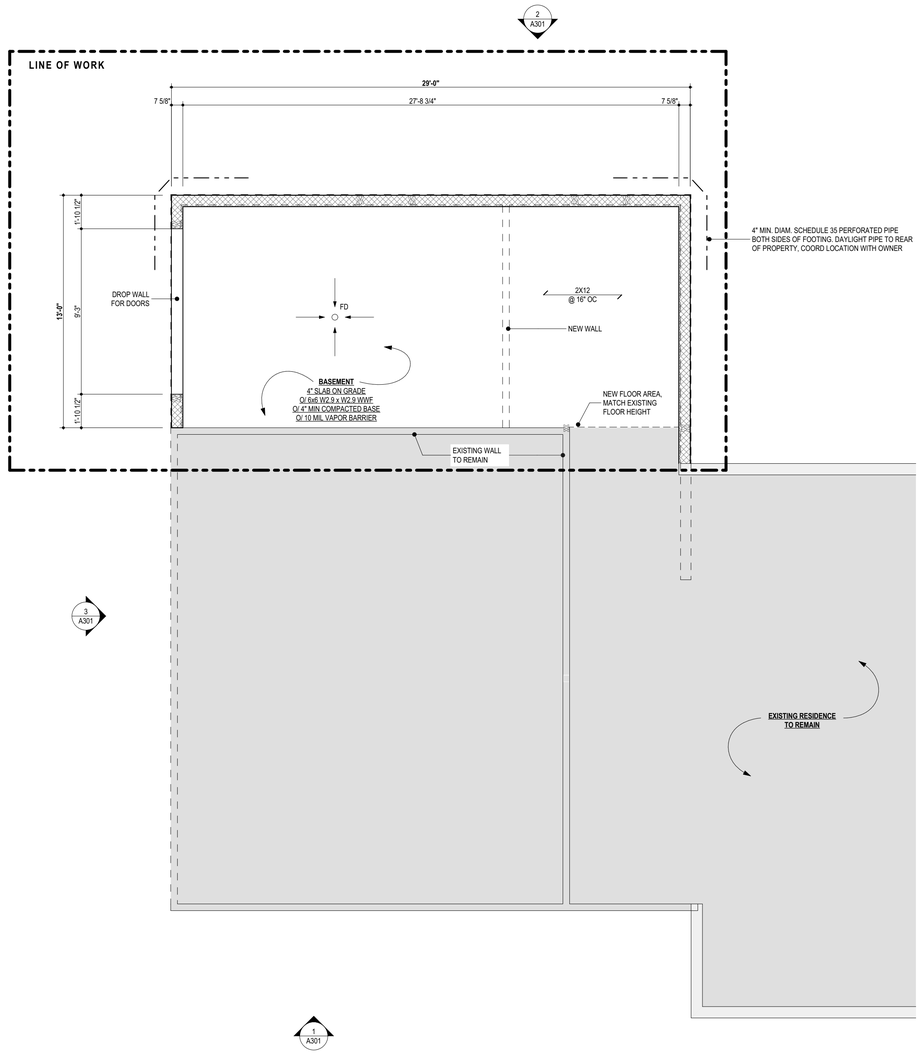
A301

Printed: Sunday, March 3, 2024



1 FIRST FLOOR PLAN

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



2 FOUNDATION PLAN

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

FLOOR PLAN GENERAL NOTES

VERIFY DIMENSIONS AND CONDITIONS IN FIELD. WHEN DIMENSIONS AND/OR CONDITIONS AS INDICATED ON DRAWINGS CONFLICT WITH ACTUAL, CONTACT ARCHITECT FOR CLARIFICATION

PROVIDE SOUND DEADENING INSULATION AROUND BEDROOMS, BATHROOMS, MECHANICAL ROOMS, AND PLUMBING STACKS

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 LOAD LOCATIONS.

ALL FOOTINGS TO EXTEND DOWN TO FROST LEVEL MINIMUM.

COORDINATE EXACT LOCATIONS OF FLOOR DRAINS WITH MECHANICAL CONTRACTOR.

PROVIDE 5/8" GYP. BOARD TYPE "X" ON GARAGE CEILINGS.

ALL INTERIOR DOORS TO BE 1 7/8" SOLID CORE WOOD DOORS. COORDINATE WITH FINISH PLANS FOR FINAL FINISH SELECTIONS

ALL INTERIOR TRIM TO BE POPLAR OR APPROVED EQUAL. COORDINATE WITH INTERIOR ELEVATIONS AND MILLWORK DRAWINGS FOR SELECT TYPES AND PROFILES.

ALL MILLWORK TO BE PER DRAWINGS.

REFER TO CONSULTANT DRAWINGS IF APPLICABLE FOR COORDINATION OF WORK BETWEEN TRADES

FLOOR TRUSS CRITERIA
TCL= 30 PSF
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
ΔTTL < L/360
USE (2) SIMPSON SWDC15600 SCREWS AT TRUSS BRG

WOOD HEADERS (U.N.O.)

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

INDICATES WEB STIFFENING BELOW BEARING WALL ABOVE

INDICATES AREA OF ADDITIONAL FRAMING REQUIRED

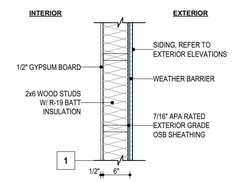
INDICATES POINT LOAD FROM ABOVE

INDICATES LOCATION OF BEARING WALL ABOVE

INDICATES BEARING WALL

EXTERIOR WALL TYPES

NOTE: WALL INFORMATION IS DEMONSTRATED IN PLAN VIEW



WINDOW SCHEDULE

ID	QTY	W x H	REMARKS
W01	3	2'-6"x5'-0"	
W02	5	3'-0"x5'-0"	

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ARCHITECT
HARA ARCHITECTS

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PROGRESS

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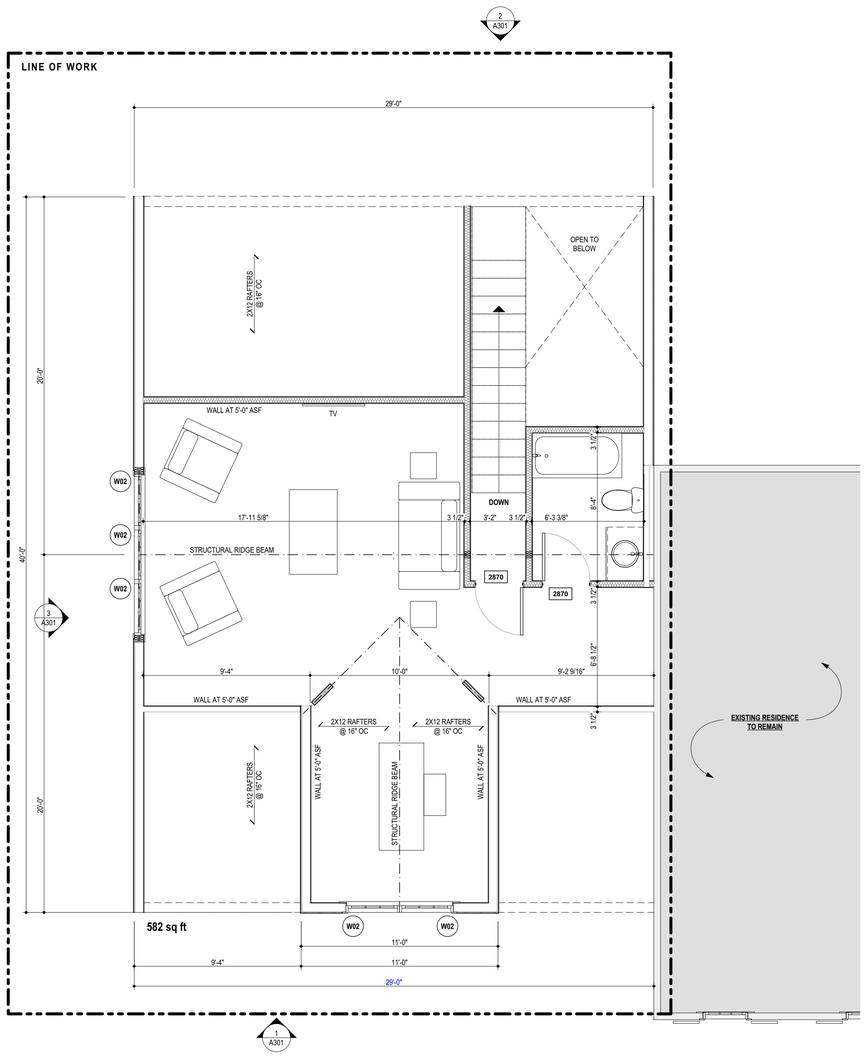
3/3/2024

FLOOR & FOUNDATION PLAN

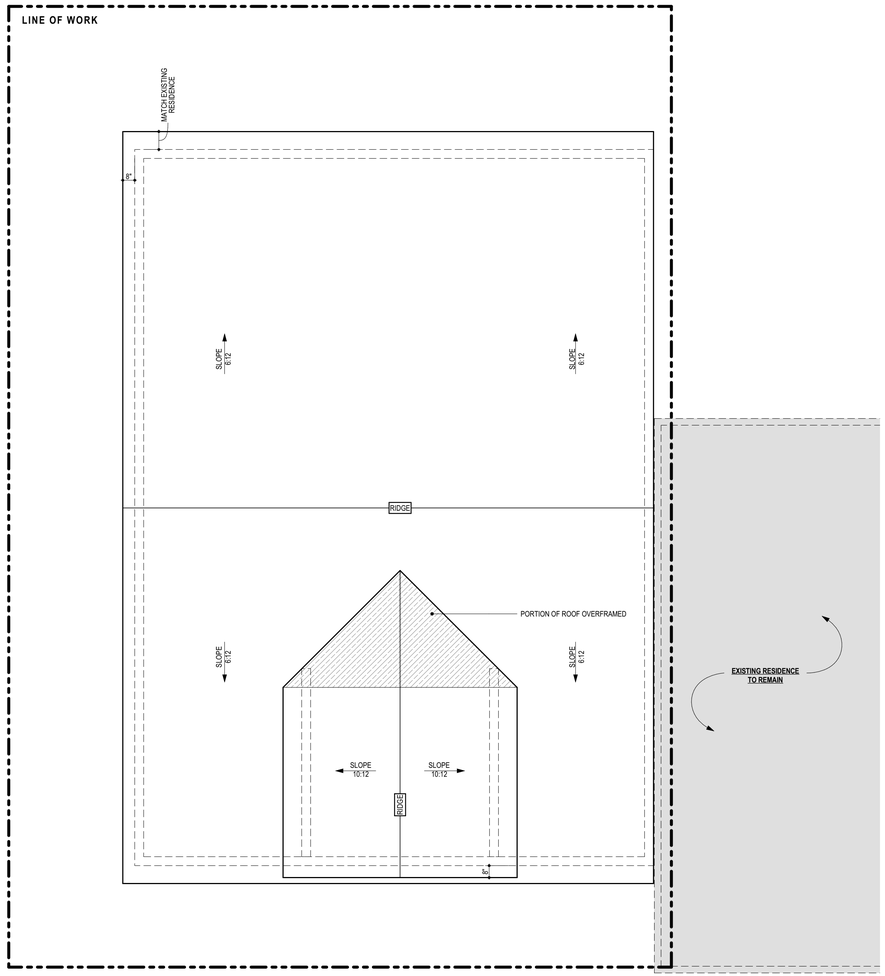
A101

Printed: Sunday, March 3, 2024



1 SECOND FLOOR PLAN

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



2 ROOF PLAN

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

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INDICATES POINT LOAD FROM ABOVE

INDICATES LOCATION OF BEARING WALL ABOVE

INDICATES BEARING WALL

EXTERIOR WALL TYPES

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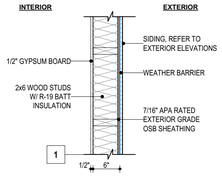

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ARCHITECT
HARA ARCHITECTS

STRUCTURAL

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PROJECT #: 2405

ISSUE	ID	DATE
AHBR	A	03/04/2024

PROGRESS

NOT FOR CONSTRUCTION

3/3/2024

FLOOR & ROOF PLAN

A102

Printed: Sunday, March 3, 2024

GENERAL NOTES

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, WHOM MUST BE REGISTERED AS A PROFESSIONAL ENGINEER IN THE PROJECT'S JURISDICTION.

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 CONDITION.

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.

DEFERRED SUBMITTALS SHALL INCLUDE:

1. NONE

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 95% DENSITY BY ASTM D-698.

FOUNDATIONS

ALLOWABLE SOIL BEARING PRESSURE = 1500 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:

ALL CONCRETE = 4,000 PSI.

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

GROUND GRANULATED BLAST FURNACE SLAG, FLY-ASH 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	(F_y=36 KSI)
	WIDE FLANGE SHAPES =	A992 GR. 50	(F_y=50 KSI)
	TUBES =	A500 GR. B	(F_y=46 KSI)
	PIPES =	A53 GR. B	(F_y=35 KSI)

FIELD CONNECTIONS SHALL BE BOLTED, BEARING TYPE UNLESS NOTED OTHERWISE, ASTM A325 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 = 1,500 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 VALUES:
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	F_b = 875 psi
No. 2 OR BETTER	TENSILE	F_t = 450 psi
	SHEAR	F_v = 135 psi
	COMPRESSIVE (⊥ TO GRAIN)	F_c = 425 psi
	COMPRESSIVE (* TO GRAIN)	F_c = 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, HERE, MUST BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL. LUMBER SUPPLIER TO FURNISH APPROPRIATE CONNECTIONS AS SPECIFIED HEREIN.

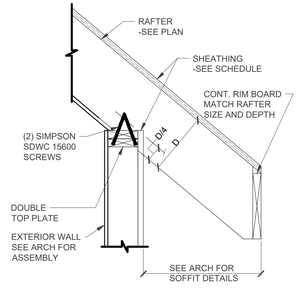
ALL FRAMING CONNECTIONS SHALL BE HOT DIPPED GALVANIZED STEEL UNLESS NOTED OTHER WISE WITHIN THESE DRAWINGS. BOLT HOLES SHALL BE 1/16" GREATER THAN THE BOLT DIAMETER AND WASHERS ARE REQUIRED ON ALL FAYING SURFACES IN CONTACT WITH WOOD. (BOTH SIDES)

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 MANUFACTURER 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 5/8" Ø x 18" A307 OR A36 (L-BOLTS) AT 48" ON CENTER AND BE EMBED 6" MINIMUM.

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



RAFTER BEARING DETAIL
SCALE:1"=1'-0"

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.

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	F_b = 2,600 psi
	TENSILE	F_t = 1,555 psi
	SHEAR	F_v = 285 psi
	COMPRESSIVE (⊥ TO GRAIN)	F_c = 750 psi
	COMPRESSIVE (* TO GRAIN)	F_c = 2,510 psi
	MODULUS OF ELASTICITY	E = 2,000 ksi

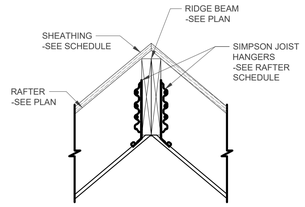
DO NOT NOTCH, PLACE HOLES IN OR MODIFY THE MEMBERS IN ANYWAY EXCEPT CUTTING SQUARE CUTS TO FIT THE MEMBER.

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.

CONVENTIONAL LUMBER ROOF RAFTER CONNECTION SCHEDULE

SIZE	SINGLE RAFTER	FACE	RAFTER
2x6	LRU26Z	(4) 10d	(5) 10d
2x8	LRU28Z	(6) 16d	(5) 16d
2x10	LRU210Z	(6) 16d	(7) 16d
2x12	LRU212Z	(6) 16d	(7) 16d



RAFTER HANGER SCHEDULE
SCALE:1"=1'-0"

FRAMING FASTENING SCHEDULE

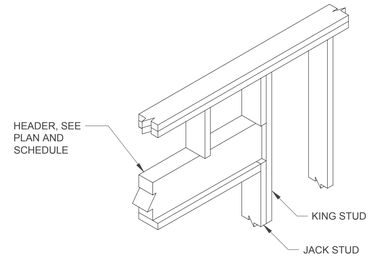
CONNECTION	NAILS	NAILING TYPE
FLOOR JOIST TO SILL PLATE	(4) 8d	TOE-NAIL
I-JOIST TO SILL PLATE	(2) 10d	TOP
RIM BOARD TO FLOOR SOLID JOISTS	(2) 16d TOP AND BOTTOM	END
RIM BOARD TO FLOOR I-JOISTS	(2) 10d TOP AND BOTTOM	END
WALL BOTTOM PLATE TO JOISTS / BLOCKING / WALL DOUBLE TOP PLATES	(2) 16d (2x4) @ 16" OC, (3) 16d (2x6) @ 16" OC	FACE
STUD TO TOP OR BOTTOM PLATE / BLOCKING / TYPICAL	(2) 16d (2x4), (3) 16d (2x6)	END
RIM BOARD TO TOP / BOTTOM PLATE	16d AT 6" ON CENTER	FACE
RAFTERS / CEILING JOISTS	(4) 16d	TOE NAIL
HEADERS	(1) 16d EA SIDE, EA JACK	TOE NAIL
BRIDGING	(2) 8d NAILS	TOE NAIL
STUD LAPS / TOP PLATE LAP SPLICES	(8) 16d NAILS	FACE
BUILT UP BEAMS	(4) 16d NAILS @ 12" OC EACH PLY	FACE

NOTE: AT DOUBLE OR TRIPLE MEMBERS THE NUMBER OF FASTENERS SHOULD BE THE SCHEDULED FASTENER # MULTIPLIED BY THE NUMBER OF PLIES.

WALL OPENING HEADER SCHEDULE (2x6 WALLS)

OPENING	HEADER	NON BEARING STUDS	BEARING STUDS
MAN DOORS	(2) 2X6	1 JACK, 1 KING	1 JACK, 1 KING
UP TO 6'-0"	(2) 2x8	1 JACK, 2 KING	1 JACK, 2 KING
6'-1" TO 8'-0"	(2) 2x10	1 JACK, 2 KING	2 JACK, 2 KING
8'-1" TO 10'-0"	(2) 2x12	2 JACK, 2 KING	2 JACK, 2 KING
10'-0" TO 11'-0"	(2) 2x12	2 JACK, 3 KING	2 JACK, 3 KING

SEE MULTI-PLY BEAM FASTENING SCHEDULE FOR BEAM CONSTRUCTION.

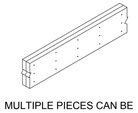


WALL OPENING HEADER DETAILS
SCALE:SCALE = NTS

MULTI-PLY BEAM FASTENING SCHEDULE

PIECE WIDTH	# OF PLIES	FASTENER TYPE (1)	LENGTH	# ROWS	O.C. SPACING	LOCATION
1¾"	2	10d NAILS	3"	3(2)	12"	ONE SIDE
		12d-16d NAILS	3 ¼"	2(2)		
		SCREWS	3⅜" or 3½"	2	24"	
	3	10d nails	3"	3(2)	12"	BOTH SIDES
		12d-16d NAILS	3 ¼"	2(2)		
		SCREWS	3⅜" or 3½"	2	24"	BOTH SIDES
			5"			ONE SIDE
	4	10d NAILS(3)	3"	3(2)	12"	ONE SIDE (PER PLY)
		12d-16d NAILS (3)	3 ¼"	2(2)		
		SCREWS	5" or 6"	2	24"	BOTH SIDES
			6 ¾"			ONE SIDE
3½"	2	SCREWS	5" or 6"	2	24"	BOTH SIDES
			6 ¾"			ONE SIDE
		½" BOLTS	8"	2	24"	-

WHEN FASTENERS ARE REQUIRED ON BOTH SIDES, STAGGER FASTENERS ON THE SECOND SIDE SO THEY FALL HALFWAY BETWEEN FASTENERS ON THE FIRST SIDE.



MULTIPLE PIECES CAN BE NAILED OR BOLTED TOGETHER TO FORM A HEADER OR BEAM OF THE REQUIRED SIZE, UP TO A MAXIMUM WIDTH OF 7"

(1) 10D NAILS ARE 0.128" DIAMETER; 12D-16D NAILS ARE 0.148" - 0.162" DIAMETER; SCREWS ARE SDS, SDW, USP WS, OR TRUSSLOK®
(2) AN ADDITIONAL ROW OF NAILS IS REQUIRED WITH DEPTHS OF 14" OR GREATER.
(3) WHEN CONNECTING 4-PLY MEMBERS, NAIL EACH PLY TO THE OTHER AND OFFSET NAIL ROWS BY 2" FROM THE ROWS IN THE PLY BELOW.
(4) WHEN FILLING BEAM WITH PLYWOOD, THE PLYWOOD IS NOT CONSIDERED A PLY WITHIN THE CHART ABOVE AND REQUIRES THE LENGTH OF FASTENERS TO BE A ½" LONGER.

GLUE ALL PLIES OF WOOD TO EACH OTHER USING HEAVY DUTY CONSTRUCTION ADHESIVE

MULTI-PLY BEAM DETAILS
SCALE:1"=1'-0"

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PROJECT TEAM:

ARCHITECT
HARA ARCHITECTS

STRUCTURAL

ROBINSON RESIDENCE
134 CHADBOURNE DRIVE, HUDSON, OHIO 44236

PROJECT #: 2405

ISSUE	ID	DATE
AHBR	A	03/04/2024

STATE OF OHIO
MARK ENOS
E-83946
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1/24/2024

STRUCTURAL NOTES

S100

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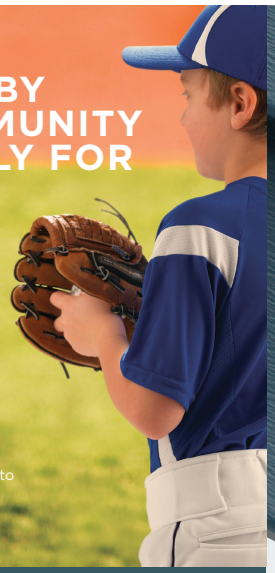

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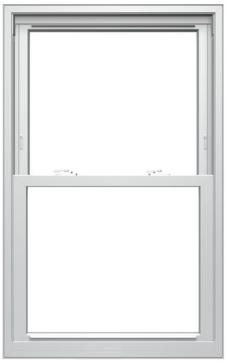

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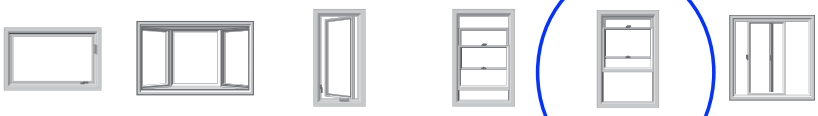
WINDOW STYLES

Specialty shapes, special sizes and fixed configurations are also available.



AWNING | BAY OR BOW | CASEMENT | DOUBLE-HUNG | SINGLE-HUNG | SLIDING

PATIO DOOR STYLES

Special sizes and multiple configurations are also available.

SLIDING

[1,2] See inside front cover for disclosures.

Colors & Finishes PELLA® 250 SERIES

FRAME COLORS

Create a signature look with solid-color and dual-color frames. Dual-color frames allow you to choose a different color for the exterior with a White interior.

SOLID-COLOR:

WHITE | ALMOND | FOSSIL

DUAL-COLOR FRAMES:

POPLAR WHITE | TAN | FOSSIL | BROWN | PORTOBELLO | MORNING SKY GRAY

HARTFORD GREEN | BRICK RED | BLACK

[1] Based on the force required to bend a window frame profile.

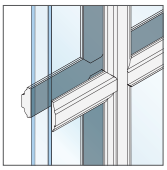
[2] Window energy efficiency calculated in a computer simulation using RESFEN 5.0 default parameters for a 2000 sq. foot existing single-story home when comparing a Pella 250 Series vinyl window with InsulShield Advanced Low-E triple-pane glass with argon to a single paned wood or vinyl window. The range of energy efficiency will vary from 54% to 77% and will vary by location. Your actual savings will vary. The average window energy efficiency is based on a national average of 94 modeled cities across the country with an adjustment based on population. For more details see pella.com/methodology.

Grilles PELLA® 250 SERIES

GRILLES

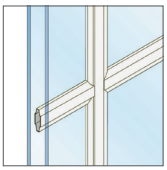
Choose the look of simulated divided light or make cleaning easier by selecting grilles-between-the-glass.

COLOR-MATCHED SIMULATED-DIVIDED-LIGHT:[1]

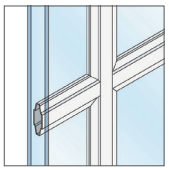


CONTOUR 7/8"

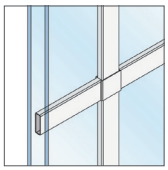
GRILLES-BETWEEN-THE-GLASS:[2]



CONTOUR 3/4"
Color-Matched Interior and 11 Exterior Colors



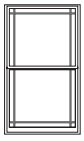
CONTOUR 1"
White or Almond Only



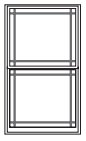
FLAT 5/8"
White or Almond Only

GRILLE PATTERNS

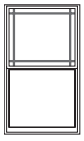
Choose from a variety of grille patterns for the traditional look of divided light.[3]



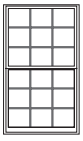
6-LITE PRAIRIE



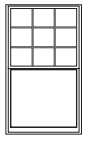
9-LITE PRAIRIE



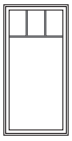
9-LITE PRAIRIE
Top Sash Only



TRADITIONAL



TRADITIONAL
Top Sash Only



TOP ROW

CUSTOM
Equally Divided

STARBURST[3]

SUNBURST[3]

PERIMETER[3]

TRADITIONAL

PRAIRIE

[1] Available on dual-pane products only.
[2] Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.
[3] Grille patterns offered may vary per product. See specific product information for availability.
[4] Only available with a curved product or curved glass.

Window Hardware PELLA® 250 SERIES

CASEMENT & AWNING

Folds neatly out of the way so it won't interfere with roomside window treatments. Finishes match frame colors.

FOLD-AWAY CRANK

COLOR-MATCHED FINISHES:

WHITE | ALMOND | FOSSIL

SLIDING, SINGLE- & DOUBLE-HUNG

Pella's cam-action locks pull the sashes against the weatherstripping for a tighter seal. Optional AutoLock hardware automatically locks the window when it is shut, simply close the sash and confirm it latches.

CAM-ACTION LOCK

AUTOLOCK

COLOR-MATCHED FINISHES:

WHITE | ALMOND | FOSSIL

INTEGRATED SASH LIFT

Make raising and lowering single- and double-hung window sashes easy with a standard, integrated sash lift.

WINDOW INTEGRATED SASH LIFT

COLOR-MATCHED FINISHES:

WHITE | ALMOND | FOSSIL

WINDOW LIMITED OPENING DEVICES

A vent stop can be engaged or disengaged manually and restricts how far the bottom sash of a double-hung window can open. A window opening control device (WOCD) complies with a safety standard and allows for ventilation, emergency escape and rescue when released. A WOCD automatically limits the sash opening to less than four inches, unless it is intentionally disengaged, enabling the sash to fully open.

VENT STOP

OPENING CONTROL DEVICE

COLOR-MATCHED FINISHES:

WHITE | ALMOND | FOSSIL

Patio Door Hardware & Blinds PELLA® 250 SERIES

SLIDING PATIO DOOR HANDLE

Match your door's interior and exterior color with a color-matched, corrosion-resistant handle, or choose to upgrade the interior finish to add a touch of style.

SLIDING PATIO DOOR HANDLE
Standard Multipoint Locking System

COLOR-MATCHED FINISHES:

WHITE | ALMOND | FOSSIL

ADDITIONAL INTERIOR FINISHES:

BRIGHT BRASS | OIL-RUBBED BRONZE | SATIN NICKEL

INTEGRATED FLUSH FOOTBOLT

Pella 250 Series sliding patio door with optional footbolt is our most secure vinyl patio door.[1] The patent-pending footbolt is flush with the frame, providing secondary venting and locking abilities without compromising beauty.

COLOR-MATCHED FINISHES:

WHITE | ALMOND | FOSSIL

BETWEEN-THE-GLASS-BLINDS[2]

Add privacy and complement your home's decor with blinds-between-the-glass. Located between panes of glass, blinds are protected from dust, pets and damage.

COLORS:

WHITE | SAND | CLAY | SILVER MOON | SLATE GRAY | ESPRESSO

[1] To achieve a Grade 40 rating on ASTM F842, a test for forced entry excluding glass breakage, the optional footbolt must be installed and engaged.
[2] Available on dual-pane products only. Not available on sliding patio doors with grilles-between-the-glass.

Glass PELLA® 250 SERIES

INSULSHIELD® LOW-E GLASS	Advanced Low-E insulating dual- or triple-pane glass with argon[1] NaturalSun Low-E insulating dual- or triple-pane glass with argon[1] SunDefense™ Low-E insulating dual-pane glass with argon[1]
ADDITIONAL GLASS OPTIONS	Bronze-tinted Advanced Low-E insulating glass with argon[1] High-altitude InsulShield Low-E insulating glass[1] Obscure insulating glass[1,2] Tempered glass

Screens[3]

FLAT	Durable and functional, conventional fiberglass screens are available on all venting vinyl windows.
SLIDING PATIO DOOR SCREEN	InView™ high-transparency screens come standard and provide a clearer view than conventional fiberglass screens. Sliding patio door screens are color-matched to exterior frames.

[1] InsulShield Low-E insulating glass is available without argon in most products.
[2] Available in both dual-pane and triple-pane glass.
[3] Warning: Screen will not stop child or pet from falling out of window or door. Keep child or pet away from open window or door.

Want to learn more? Call us at 833-44-PELLA or visit pella.com

Pella LIMITED LIFETIME WARRANTY

The confidence of Pella's warranty.
Pella® products are backed by some of the strongest warranties in the business. See written limited warranty for details, including exceptions and limitations, at pella.com/warranty.

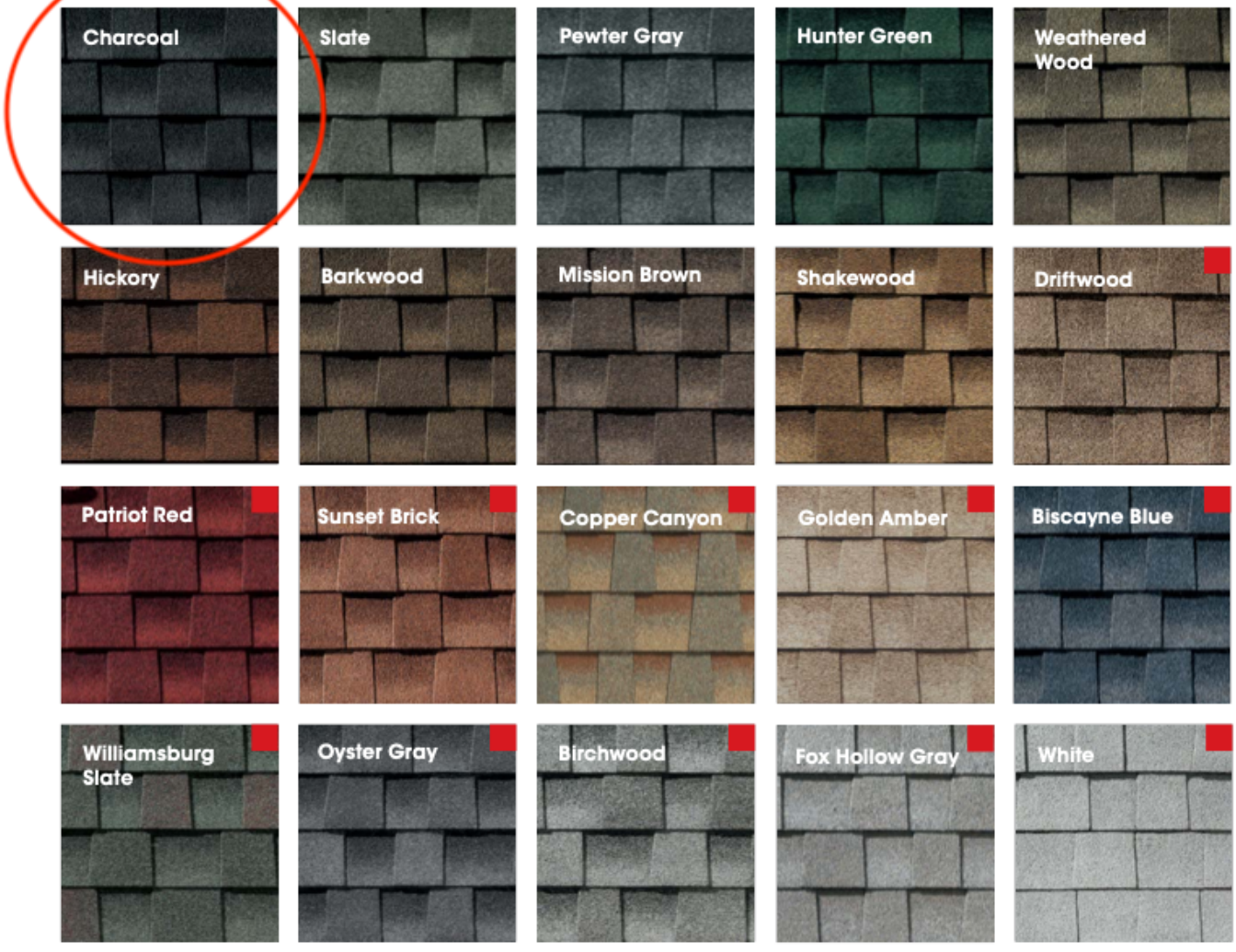
ENERGY STAR PARTNER

Connect with Pella:

GAF Timberline® HDZ™

High Definition® Lifetime[1] Shingles

Timberline® shingles protect millions of families nationwide with great value and a genuine wood-shake look. Peace of mind has never looked so good.



For more details visit **gaf.com/hdz**

[1] 15-year WindProven™ limited wind warranty on Timberline® HDZ™ Shingles requires the use of GAF starter strips, roof deck protection, ridge cap shingles, and leak barrier or attic ventilation. See *GAF Roofing System Limited Warranty* for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products.

NOTE: It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.

■ Available regionally