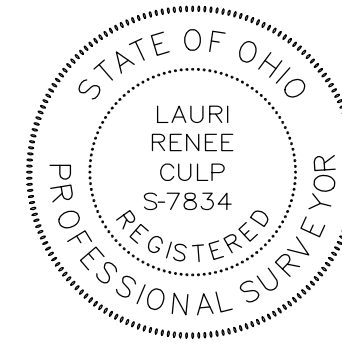


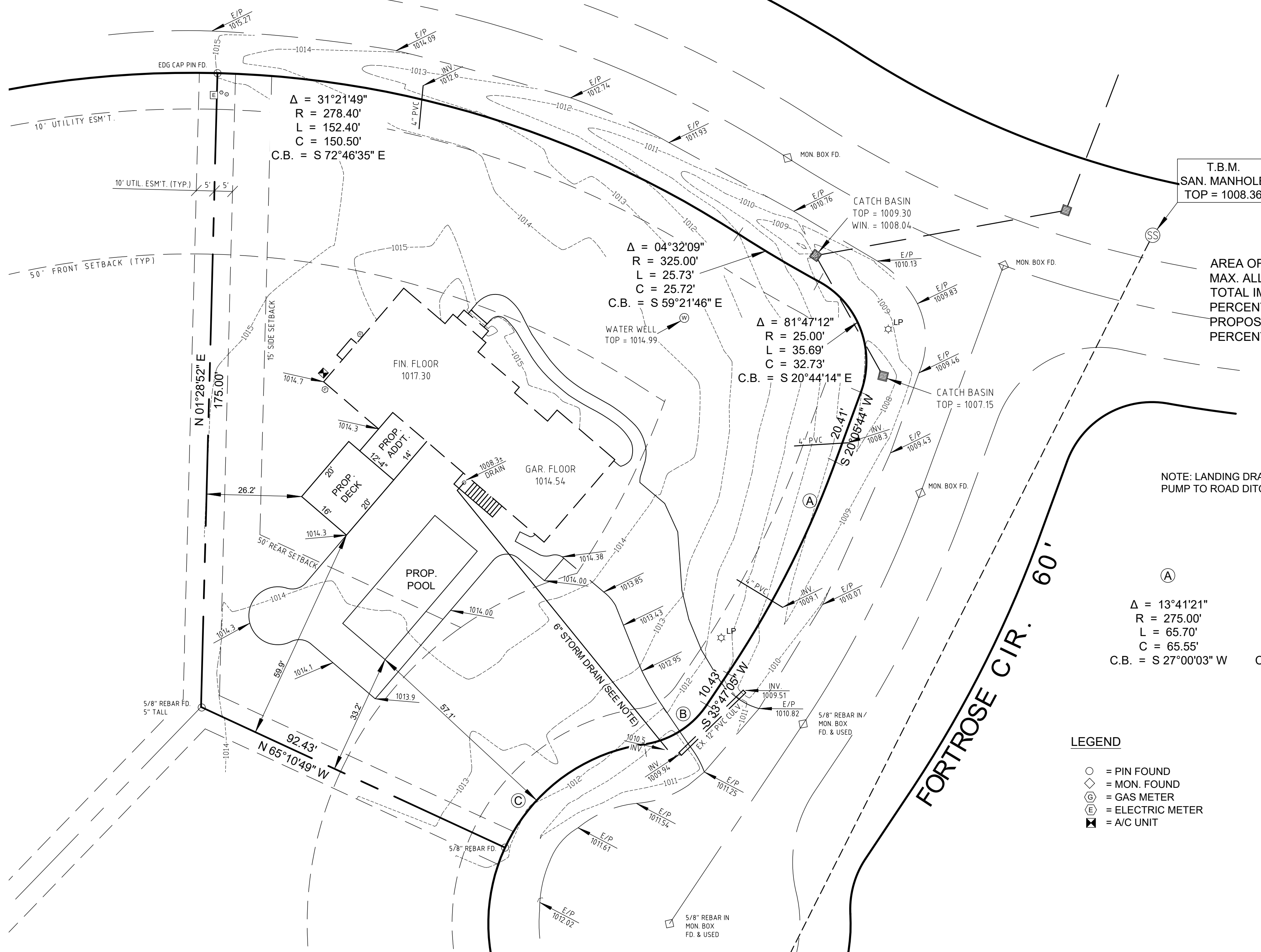
BERSHAM DRIVE 60'



I HEREBY CERTIFY THAT I HAVE SURVEYED THE LAND SHOWN ON THIS PLAT AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF THE LAND SHOWN HEREON.

LAURI R. CULP, P.S. 7834
 CULP SURVEYING, LLC
 3853 RIDGEVIEW DRIVE
 RICHFIELD, OHIO 44286
 330-815-3765

8/22/2025



$\Delta = 31^\circ 21' 49''$
 $R = 278.40'$
 $L = 152.40'$
 $C = 150.50'$
 C.B. = S $72^\circ 46' 35''$ E

$\Delta = 04^\circ 32' 09''$
 $R = 325.00'$
 $L = 25.73'$
 $C = 25.72'$
 C.B. = S $59^\circ 21' 46''$ E

$\Delta = 81^\circ 47' 12''$
 $R = 25.00'$
 $L = 35.69'$
 $C = 32.73'$
 C.B. = S $20^\circ 44' 14''$ E

T.B.M.
 SAN. MANHOLE
 TOP = 1008.36

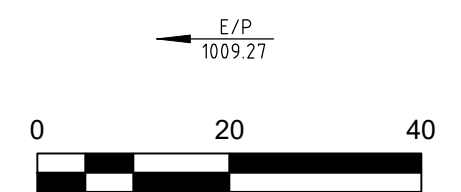
AREA OF LOT = 28,327 S.F.
 MAX. ALLOWABLE IMPERVIOUS SURFACE = 11,331 S.F.
 TOTAL IMPERVIOUS SURFACE AREA = 4,593 S.F.
 PERCENT OF IMPERVIOUS SURFACE AREA = 16.2%
 PROPOSED IMPERVIOUS SURFACE AREA = 2,972 S.F.
 PERCENT PROPOSED IMPERVIOUS SURFACE AREA = 26.7%

NOTE: LANDING DRAIN TO HAVE EXTERNAL SUMP PUMP TO ROAD DITCH. PUMP SIZED BY OTHERS.

(A)	(B)	(C)
$\Delta = 13^\circ 41' 21''$	$\Delta = 48^\circ 11' 23''$	$\Delta = 57^\circ 09' 18''$
$R = 275.00'$	$R = 25.00'$	$R = 50.00'$
$L = 65.70'$	$L = 21.03'$	$L = 49.88'$
$C = 65.55'$	$C = 20.41'$	$C = 47.83'$
C.B. = S $27^\circ 00' 03''$ W	C.B. = S $57^\circ 56' 25''$ W	C.B. = S $53^\circ 27' 27''$ W

LEGEND

- = PIN FOUND
- ◇ = MON. FOUND
- ⊕ = GAS METER
- ⊖ = ELECTRIC METER
- ⊞ = A/C UNIT



PROPOSED ADDITION & POOL
182 BERSHAM DRIVE
 S/L 86 BRIDGEWATER PLACE No. 3A
 PPN 30-07083
CITY OF HUDSON
SUMMIT COUNTY, OHIO
 AUGUST, 2025 SCALE: 1" = 20'

C = 150.50'
C.B. = S 72°46'35" E

SCALE
1" = 20'
0 10' 20'

□ = APPROX 255'
OF POOL FENCE

$\Delta = 04^\circ 32' 0''$
R = 325.00'
L = 25.73'
C = 25.72'
C.B. = S 59°21'

10' UTIL. ESM'T. (TYP.) 5' 5'

ARTHER
Pool

BACK (TYP)

WATER WELL
TOP = 1014.99

N 01°28'52" E

175.00'

10'

15' SIDE SETBACK

GATE

FIN. FLOOR
1017.30

1014.3

PROP. ADDT.
12'-4" 14'

GAR. FLOOR
1014.54

20'

16'

20'

20'

1014.3

50' REAR SETBACK

26.2'

1008.3±
DRAIN

GATE

1014.38

1014.00

1013.85

1013.43

1013.3

1012.95

6" STORM DRAIN (SEE NOTE)

PROP. POOL

1014.00

1013.9

57.1'

42'

33.2'

9'

92.43'

N 65°10'49" W

59.9'

1014.1

1014.00

1013.85

1013.43

1013.3

1012.95

1010.5

INV.

1009.94

1011

E/P

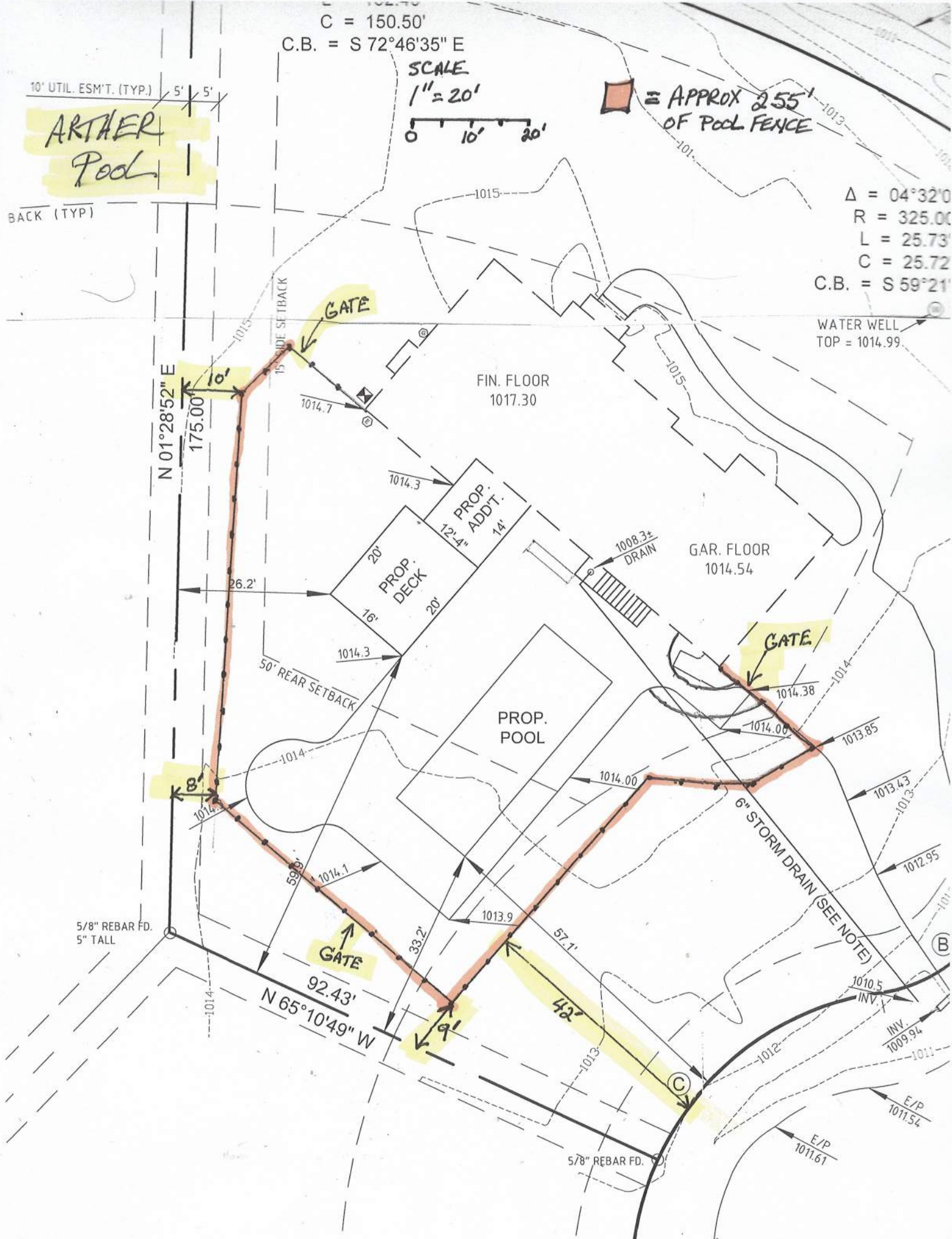
1011.54

E/P

1011.61

5/8" REBAR FD.
5" TALL

5/8" REBAR FD.



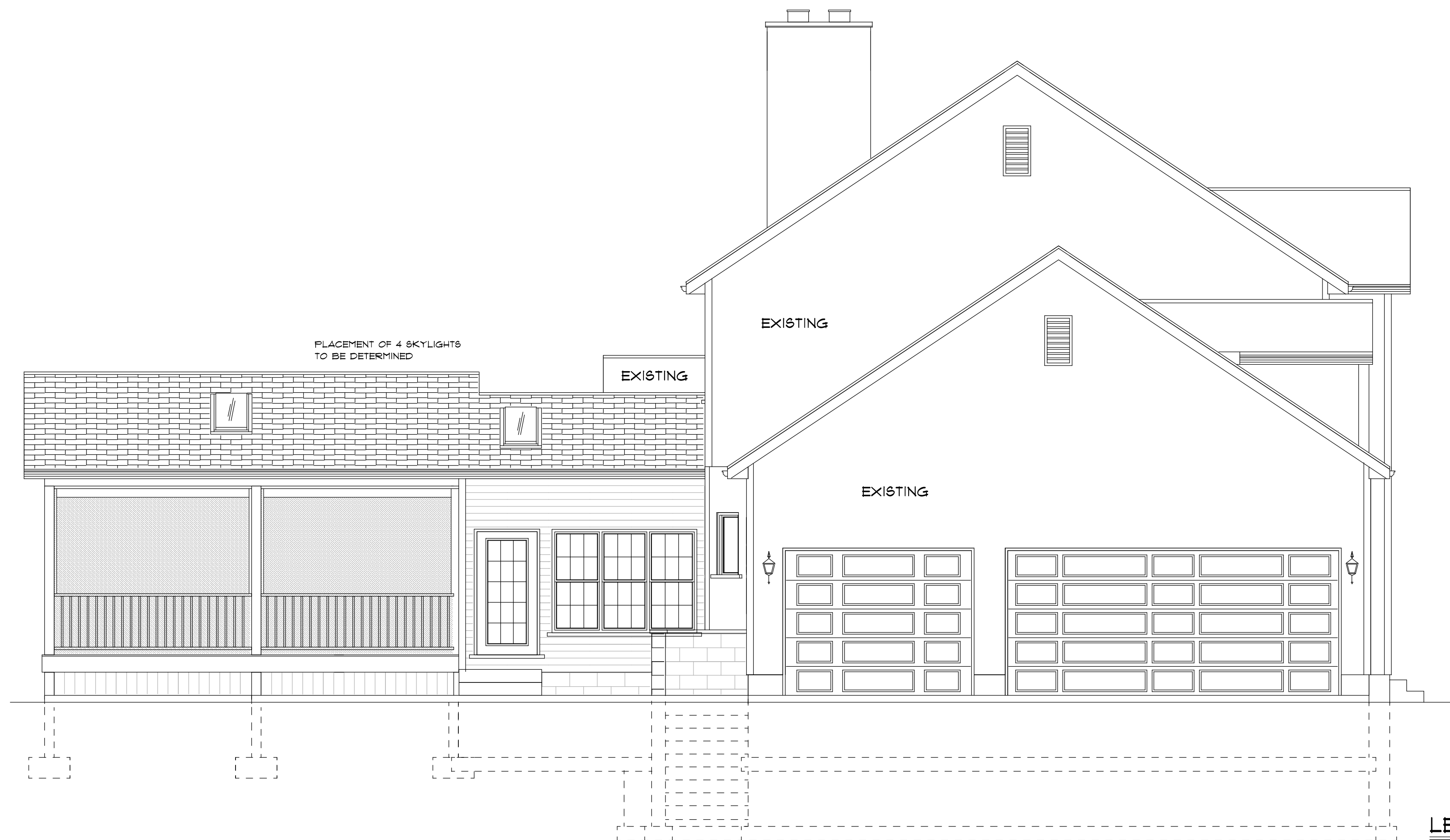
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elev # top of bearing wall
 elev # top of windows
 6'-3"
 8'-1"
 elev # top of subfloor
 elev # top of bearing wall
 1'-0"
 elev # top of windows
 6'-3"
 9'-1"
 elev # top of subfloor
 elev # top of masonry
 11/2"
 elev # top of footer pads
 4'-0"
 1'-0"
 elev # top of footer
 2'-4"
 8'-11"



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

elev # top of bearing wall
 elev # top of windows
 6'-3"
 8'-1"
 elev # top of subfloor
 elev # top of bearing wall
 1'-0"
 elev # top of windows
 6'-3"
 9'-1"
 elev # top of subfloor
 elev # top of masonry
 11/2"
 elev # top of footer pads
 4'-0"
 1'-0"
 elev # top of footer
 2'-0"
 8'-11"



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

ELEVATION STANDARDS:	
1	ELEVATIONS TO BE SET BY CONTRACTOR
2	DOWNSPOUTS ARE NOT SHOWN FOR CLARITY
3	ROOF PENETRATIONS TO BE KEPT TO REAR
4	PROVIDE ATTIC VENTILATION PER LOCAL CODE
5	PROVIDE ALL APPROPRIATE FLASHING
6	PROVIDE ALL APPROPRIATE SADDLES, CRICKETS
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DRAWING PREPARED FOR:
 CUSTOMER:
 JOHN & KATHY ARTHUR
 182 BERSHAM DR
 HUDSON, OH 44236

BUILDING ADDRESS:
 182 BERSHAM DR
 HUDSON, OH 44236

CUSTOMER PLAN APPROVED SIGNATURES:
 CUST:
 CUST:
 DATE:

PROFESSIONAL DRAWINGS BY:	
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PROFESSIONAL DRAWINGS BY:
 MARK VANZANT

(330) 447 4346
DRAFTING
DESIGN AND
BLUEPRINTS
 MARKVZ@SBCGLOBAL.NET

ELEVATION LEGEND:	
—	LOT LINE
○	LOT PIN
- - -	SET BACK LINE
- - -	EASEMENT
▨	CONCRETE SLAB
▧	ROOF PITCH
⊠	FLOOR DRAIN
—	PLUMBING LINE
⊕	PLUMBING DROP
⊗	FLUE
▭	16" X 4" PILASTER
▭	2" BLOCK LEDGE
—	ELECTRICAL LINE
○	ROUND COLUMN
□	SQUARE COLUMN
⚠	SECTION - PAUSE SECTION IS LOCATED
⚠	ELEVATION - PAUSE ELEVATION IS LOCATED
△	REVISION MARKER

DATE: JULY 23, 2025
 SCALE: 1/4"=1'-0" / 1/8"=1'-0"
 SQ FT:
 B&MT: 493
 1st FLOOR: 493
 2nd FLOOR: 493
 TOTAL: 493

PLAN:
ELEVATIONS

PAGE:
B-1

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ELEVATION STANDARDS:	
1	ELEVATIONS TO BE SET BY CONTRACTOR
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3	ROOF PENETRATIONS TO BE KEPT TO REAR
4	PROVIDE ATTIC VENTILATION PER LOCAL CODE
5	PROVIDE ALL APPROPRIATE FLASHING
6	PROVIDE ALL APPROPRIATE SADDLES, CRICKETS
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DRAWING PREPARED FOR:

CUSTOMER:
JOHN & KATHY ARTHUR
182 BERSHAM DR
HUDSON, OH 44236

BUILDING ADDRESS:
182 BERSHAM DR
HUDSON, OH 44236

CUSTOMER PLAN APPROVED SIGNATURES:
CUST:
CUST:
DATE:

PROFESSIONAL DRAWINGS BY:	
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PROFESSIONAL DRAWINGS BY:
MARK VANZANT



(330) 447 4346

**DRAFTING
DESIGN AND
BLUEPRINTS**

MARKVZ@SBCGLOBAL.NET



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

ELEVATION LEGEND:	
—	LOT LINE
○	LOT PIN
- - -	SET BACK LINE
- - -	EASEMENT
▨	CONCRETE SLAB
▧	ROOF PITCH
▩	FLOOR DRAIN
—	PLUMBING LINE
⊕	PLUMBING DROP
⊗	FLUE
▭	16" X 4" PILASTER
▬	2" BLOCK LEDGE
—	ELECTRICAL LINE
○	ROUND COLUMN
□	SQUARE COLUMN
△	SECTION - PAUSE SECTION IS LOCATED
△	ELEVATION - PAUSE ELEVATION IS LOCATED
△	REVISION MARKER

DATE: AUGUST 16, 2025

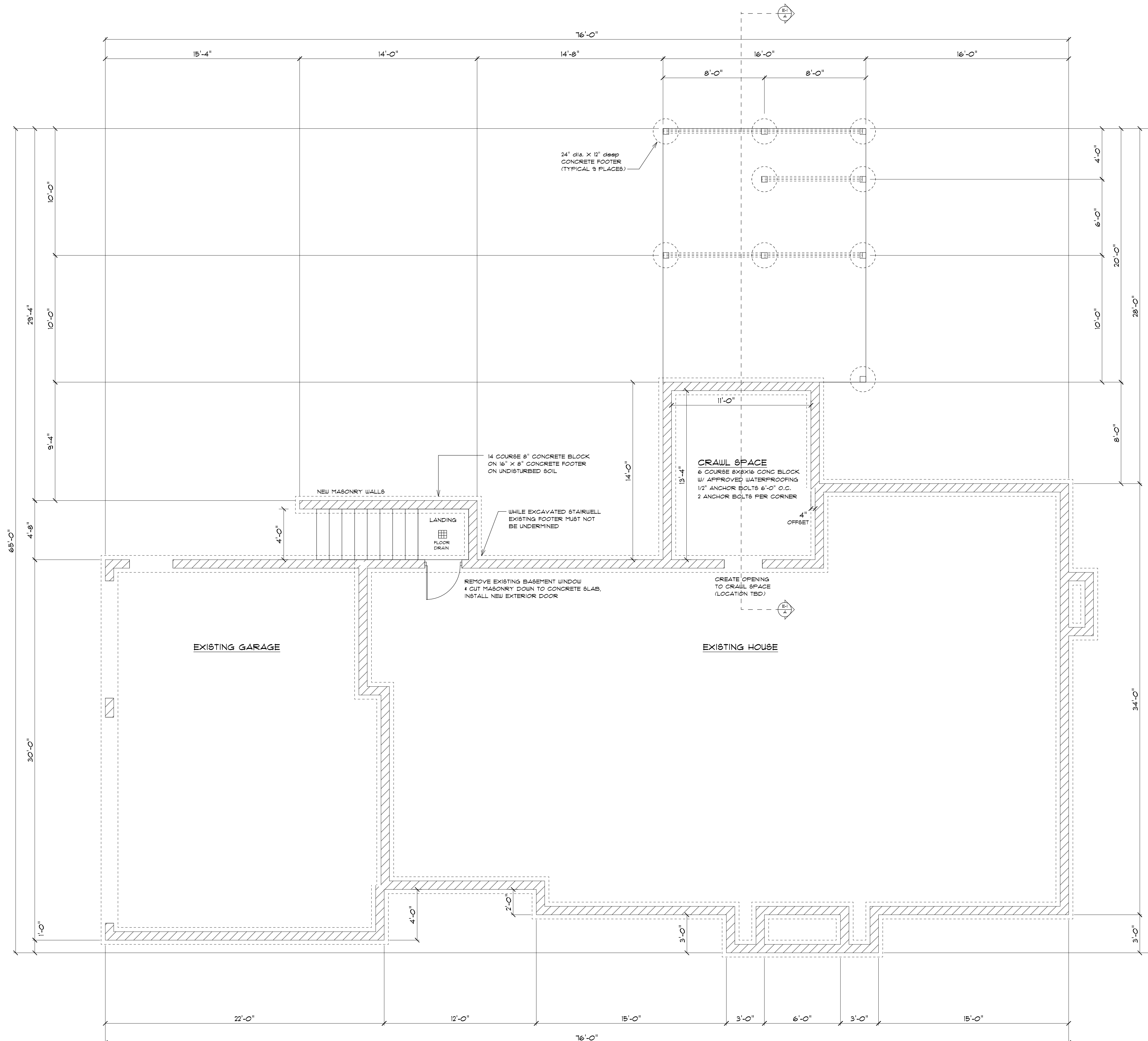
SCALE: 1/4"=1'-0" / 1/8"=1'-0"

60 FT:

FIN. BSMT: 493
1st FLOOR: 493
TOTAL: 493

PLAN:
ELEVATIONS

PAGE:
B-2



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

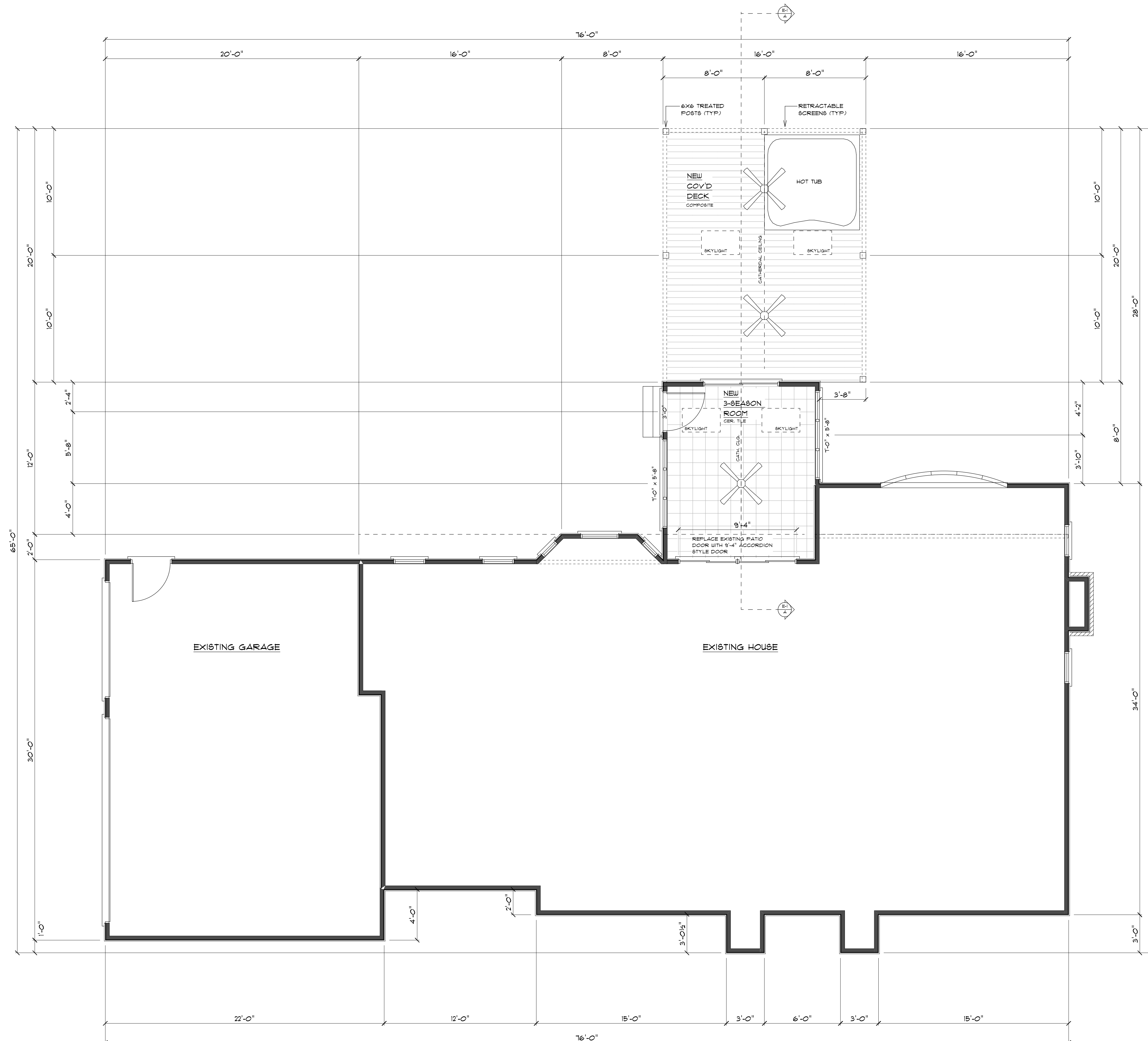
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GENERAL NOTES:		DRAWING PREPARED FOR:	
1		CUSTOMER:	JOHN & KATHY ARTHUR
2			182 BERSHAM DR
3			HUDSON, OH 44236
4		BUILDING ADDRESS:	182 BERSHAM DR
5			HUDSON, OH 44236
6		CUSTOMER PLAN APPROVED SIGNATURES:	
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8		DATE:	
9		PROFESSIONAL DRAWINGS BY:	MARK VANZANT
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FOUNDATION LEGEND:		DATE: JULY 23, 2025	
— LOT LINE	SECTION - PAGE SECTION IS LOCATED	SCALE: 1/4" = 1'-0" (U.N.)	8Q FT:
○ LOT PIN	ELEVATION - PAGE ELEVATION IS LOCATED	B8MT:	1st FLOOR: 493
- - - SET BACK LINE	REVISION MARKER	2nd FLOOR:	TOTAL: 493
- - - EASEMENT		PLAN:	FOUNDATION
CONCRETE SLAB		PAGE:	C-1
ROOF PITCH			
FLOOR DRAIN			
PLUMBING LINE			
PLUMBING DROP			
FLUE			
16" X 4" PILASTER			
2" BLOCK LEDGE			
ELECTRICAL LINE			
ROUND COLUMN			
SQUARE COLUMN			



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

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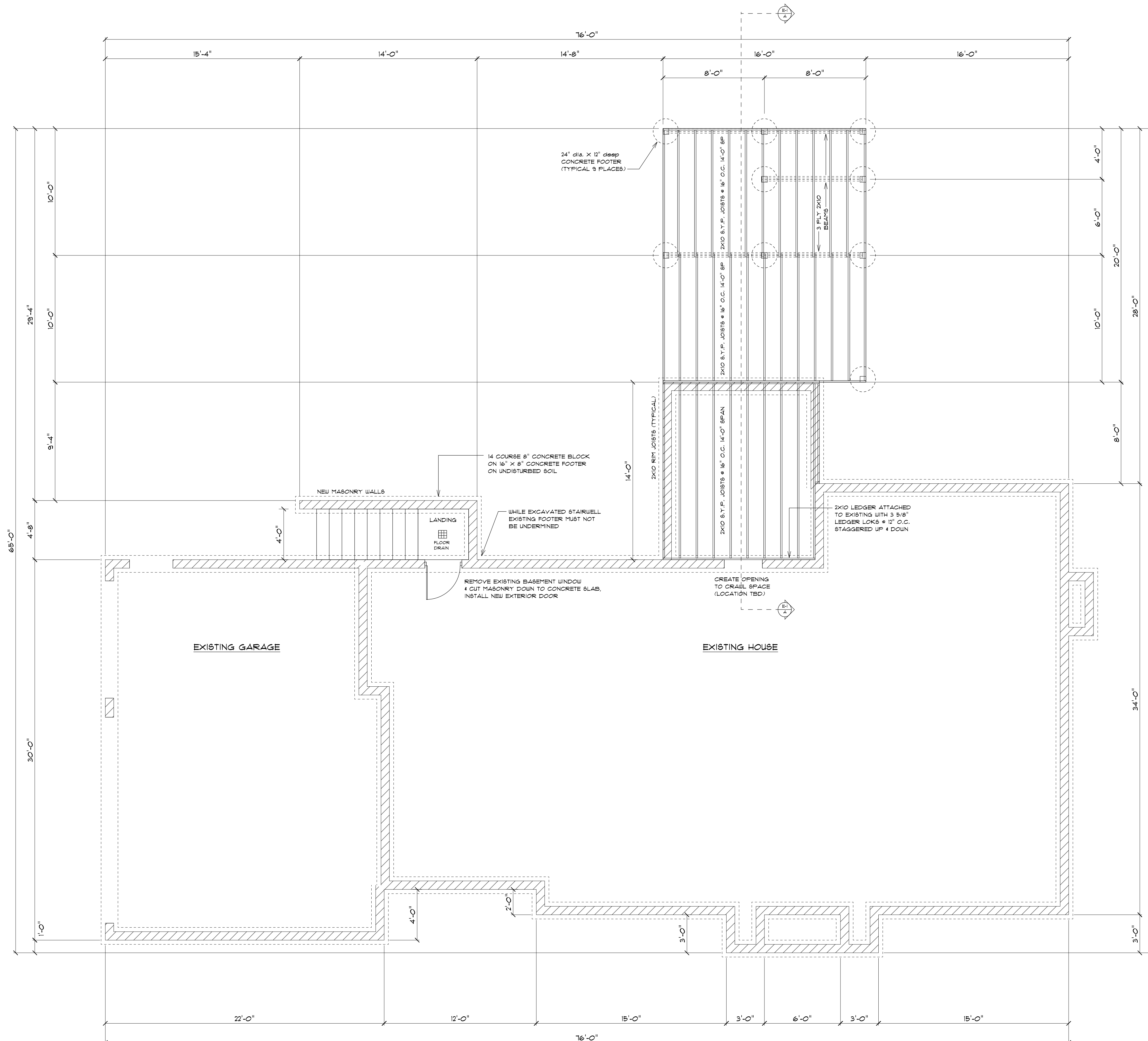
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FRAMING STANDARDS:		DRAWING PREPARED FOR:	
1	FRAMING LOADS TO BE VERIFIED BY CONTRACTOR	CUSTOMER:	JOHN & KATHY ARTHUR
2	EXT. DIMENSIONS SHOWN ARE TO OUTSIDE OF SHTG.	BUILDING ADDRESS:	182 BERSHAM DR
3	INT. DIMENSIONS SHOWN ARE TO ROUGH FRAME		HUDSON, OH 44236
4	2X8 BILL PLATE (UNLESS NOTED)	CUSTOMER PLAN APPROVED SIGNATURES:	
5	2X10 FLOOR JOISTS @ 16" O.C. UNLESS NOTED (U.N.)	CUST:	
6	3/4" TAG OSB SUBFLOOR GLUED & SCREWED (U.N.)	CUST:	
7	2X4 STUD WALLS @ 16" O.C. W/ DBL TOP PLATE (U.N.)	DATE:	
8	2X10 EXTERIOR DOOR & WINDOW HEADERS (U.N.)	PROFESSIONAL DRAWINGS BY:	MARK VANZANT
9	7/16" OSB WALL SHEATHING (U.N.)		
10	2X4 TRUSS SYSTEM @ 24" O.C. UNLESS NOTED (U.N.)		
11	1/2" OSB ROOF SHEATHING W/ APPROVED CLIPS (U.N.)		
12	SOLID BLOCKING @ ALL HANDRAIL LOCATIONS		
13	WINDOWS TO MEET PROPER EGRESS REGULATIONS		
14	USE PROPER METAL HANGERS & CLIPS AS NEEDED		
15	DOUBLE RIM JOIST OVER BSMT WINDOWS W/HANGERS		
16	ALL BALLOON FRAMED WALLS TO BE 2X6 (U.N.)		
17	2X6 SUB-FASCIA AND RAKES (U.N.)		
18	12" OVERHANGS AND RAKES (U.N.)		
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FRAMING LEGEND:		DATE: JULY 23, 2025	
—	LOT LINE	△	SECTION PAIR SECTION IS LOCATED
○	LOT PIN	△	ELEVATION PAIR ELEVATION IS LOCATED
- - -	SET BACK LINE		
- - -	EASEMENT		
▨	CONCRETE SLAB		
▧	ROOF PITCH		
⊠	FLOOR DRAIN		
—	PLUMBING LINE		
⊕	PLUMBING DROP		
⊗	FLUE		
▭	16" x 4" PILLASTER		
▭	2" BLOCK LEDGE		
—	ELECTRICAL LINE		
○	ROUND COLUMN		
□	SQUARE COLUMN		

SCALE: 1/4" = 1'-0"
SQ FT: 493
BSMT: 493
1st FLOOR: 493
2nd FLOOR: 493
TOTAL: 493

PLAN: FLOOR PLAN
PAGE: D-1



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

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FRAMING STANDARDS:	
1	FRAMING LOADS TO BE VERIFIED BY CONTRACTOR
2	EXT. DIMENSIONS SHOWN ARE TO OUTSIDE OF SHGT.
3	INT. DIMENSIONS SHOWN ARE TO ROUGH FRAME
4	2X8 BILL PLATE (UNLESS NOTED)
5	2X10 FLOOR JOISTS @ 16" O.C. UNLESS NOTED (U.N.)
6	3/4" TAG OSB SUBFLOOR GLUED & SCREWED (U.N.)
7	2X4 STUD WALLS @ 16" O.C. W/ DBL TOP PLATE (U.N.)
8	2X10 EXTERIOR DOOR & WINDOW HEADERS (U.N.)
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DRAWING PREPARED FOR:

CUSTOMER:
JOHN & KATHY ARTHUR
182 BERSHAM DR
HUDSON, OH 44236

BUILDING ADDRESS:
182 BERSHAM DR
HUDSON, OH 44236

CUSTOMER PLAN APPROVED SIGNATURES:

CUST: _____
DATE: _____

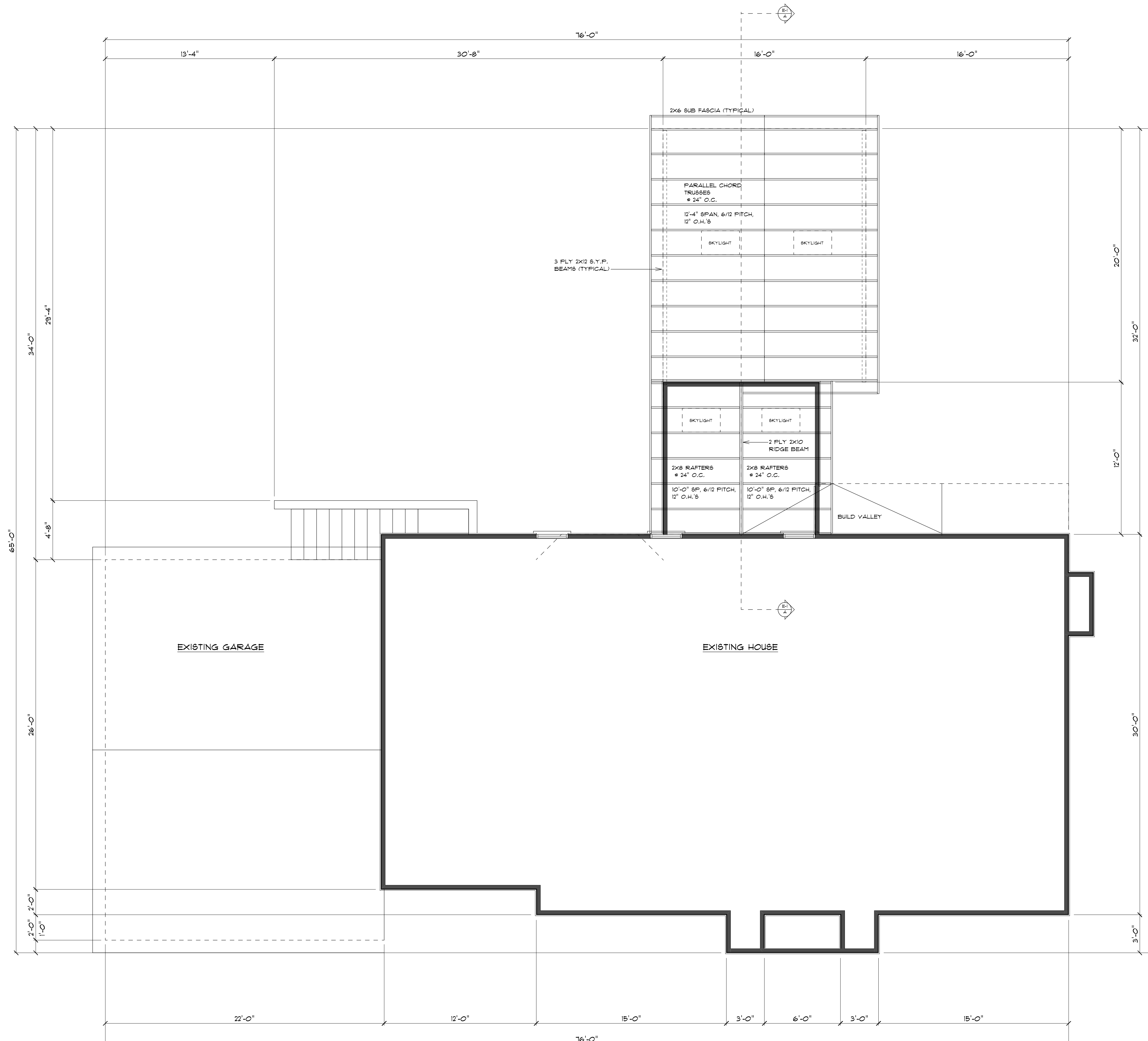
PROFESSIONAL DRAWINGS BY:
MARK VANZANT



(330) 447 4346
DRAFTING
DESIGN AND
BLUEPRINTS
MARKVZ@SBCGLOBAL.NET

FRAMING LEGEND:	
—	LOT LINE
○	LOT PIN
- - -	SET BACK LINE
- - -	EASEMENT
▨	CONCRETE SLAB
▧	ROOF PITCH
⊠	FLOOR DRAIN
—	PLUMBING LINE
⊕	PLUMBING DROP
⊗	FLUE
▭	16" X 4" PILASTER
▭	2" BLOCK LEDGE
—	ELECTRICAL LINE
○	ROUND COLUMN
□	SQUARE COLUMN

DATE:	JULY 23, 2025
SCALE:	1/4" = 1'-0" (U.N.)
SQ FT:	
FIN. BSMT:	493
1st FLOOR:	493
2nd FLOOR:	
TOTAL:	493
PLAN:	
FRAMING PLAN	
PAGE:	
D-3	



ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

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FRAMING STANDARDS:

- FRAMING LOADS TO BE VERIFIED BY CONTRACTOR
- EXT. DIMENSIONS SHOWN ARE TO OUTSIDE OF SHTG.
- INT. DIMENSIONS SHOWN ARE TO ROUGH FRAME
- 2x8 BILL PLATE (UNLESS NOTED)
- 2x10 FLOOR JOISTS @ 16" O.C. UNLESS NOTED (U.N.)
- 3/4" TAG OSB SUBFLOOR GLUED & SCREWED (U.N.)
- 2x4 STUD WALLS @ 16" O.C. W/ DBL TOP PLATE (U.N.)
- 2x10 EXTERIOR DOOR & WINDOW HEADERS (U.N.)
- 7/16" OSB WALL SHEATHING (U.N.)
- 2x4 TRUSS SYSTEM @ 24" O.C. UNLESS NOTED (U.N.)
- 1/2" OSB ROOF SHEATHING W/ APPROVED CLIPS (U.N.)
- SOLID BLOCKING @ ALL HANDRAIL LOCATIONS
- WINDOWS TO MEET PROPER EGRESS REGULATIONS
- USE PROPER METAL HANGERS & CLIPS AS NEEDED
- DOUBLE RIM JOIST OVER BSMT WINDOWS W/HANGERS
- ALL BALLOON FRAMED WALLS TO BE 2x6 (U.N.)
- 2x6 SUB-FASCIA AND RAKES (U.N.)
- 12" OVERHANGS AND RAKES (U.N.)

DRAWING PREPARED FOR:
CUSTOMER: JOHN & KATHY ARTHUR
182 BERSHAM DR HUDSON, OH 44236

BUILDING ADDRESS:
182 BERSHAM DR HUDSON, OH 44236

CUSTOMER PLAN APPROVED SIGNATURES:
CUST: _____
CUST: _____
DATE: _____

PROFESSIONAL DRAWINGS BY:
MARK VANZANT

VANZANT DESIGN

(330) 447 4346
DRAFTING
DESIGN AND
BLUEPRINTS
MARKVZ@SBCGLOBAL.NET

FRAMING LEGEND:

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○ LOT PIN	△ ELEVATION
- - - SET BACK LINE	△ REVISION MARKER
- - - EASEMENT	
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ROOF PITCH	
FLOOR DRAIN	
PLUMBING LINE	
PLUMBING DROP	
FLUE	
16" X 4" PILASTER	
2" BLOCK LEDGE	
ELECTRICAL LINE	
ROUND COLUMN	
SQUARE COLUMN	

DATE: JULY 23, 2025
SCALE: 1/4" = 1'-0" (U.N.)
SQ FT:
FIN. BSMT: 493
1st FLOOR: 493
TOTAL: 986

PLAN:
FRAMING PLAN

PAGE:
D-4

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DRAWING PREPARED FOR:

CUSTOMER:
JOHN & KATHY ARTHUR
182 BERSHAM DR
HUDSON, OH 44136

BUILDING ADDRESS:
182 BERSHAM DR
HUDSON, OH 44136

CUSTOMER PLAN APPROVED SIGNATURES:
CUST:
CUST:
DATE:

PROFESSIONAL DRAWINGS BY:
MARK VANZANT



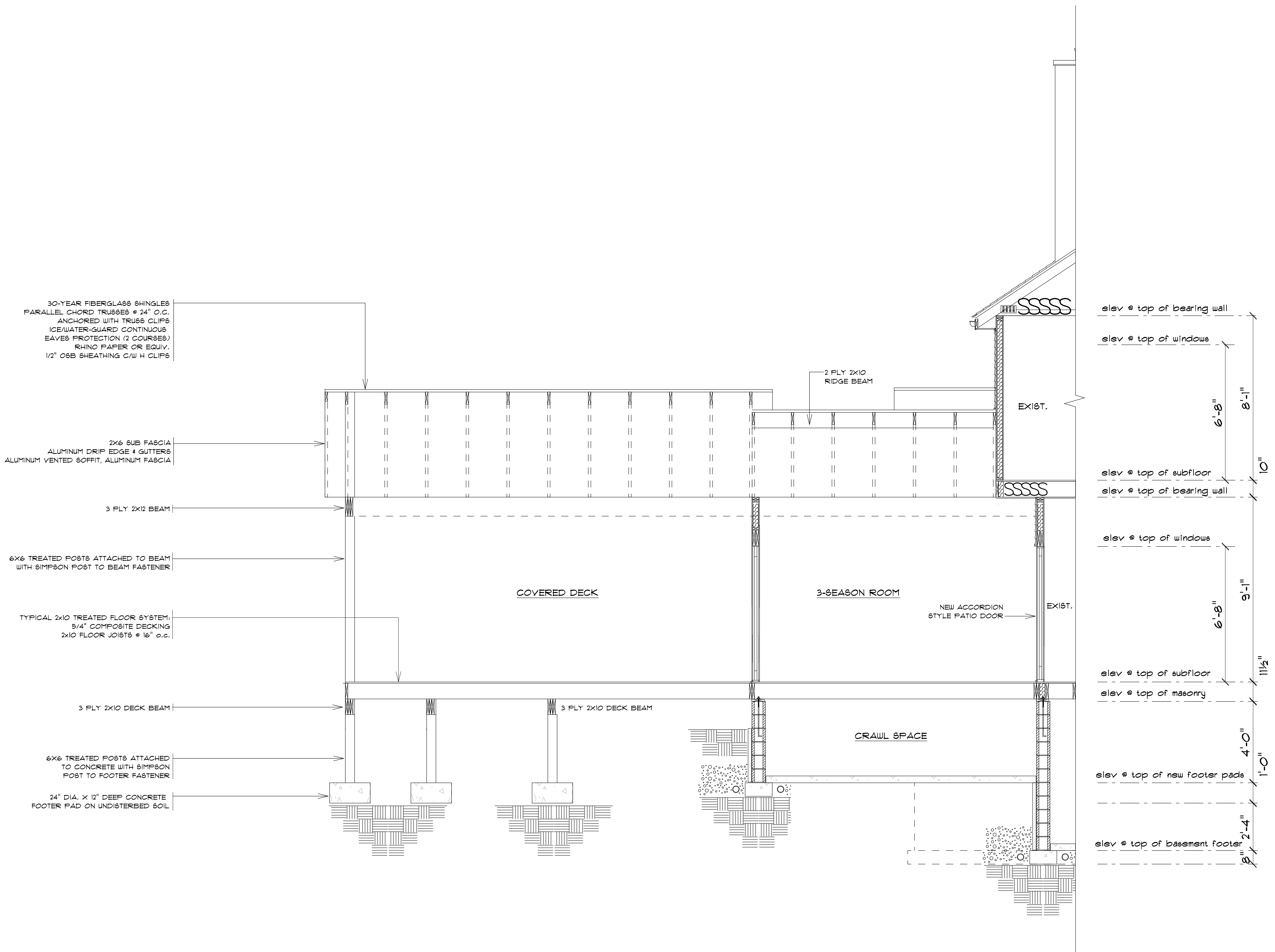
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MARKVZ@SBCGLOBAL.NET

SECTION / DETAIL LEGEND:	
— LOT LINE	SECTION
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- - - EASEMENT	PHASE SEVERATION IS LOCATED
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ROOF PITCH	
FLOOR DRAIN	
PLUMBING LINE	
PLUMBING DROP	
FLUE	
16" x 4" PILASTER	
2" BLOCK LEDGE	
ELECTRICAL LINE	
ROUND COLUMN	
SQUARE COLUMN	

DATE: JULY 23, 2025
SCALE: AS SHOWN
SQ FT:
BSMT: 493
1st FLOOR: 493
2nd FLOOR:
TOTAL: 493

PLAN:
DETAILS & SECTIONS

PAGE:
E-1



BUILDING SECTION
3/8" = 1'-0"

e > Sliding > Parkview



Parkview

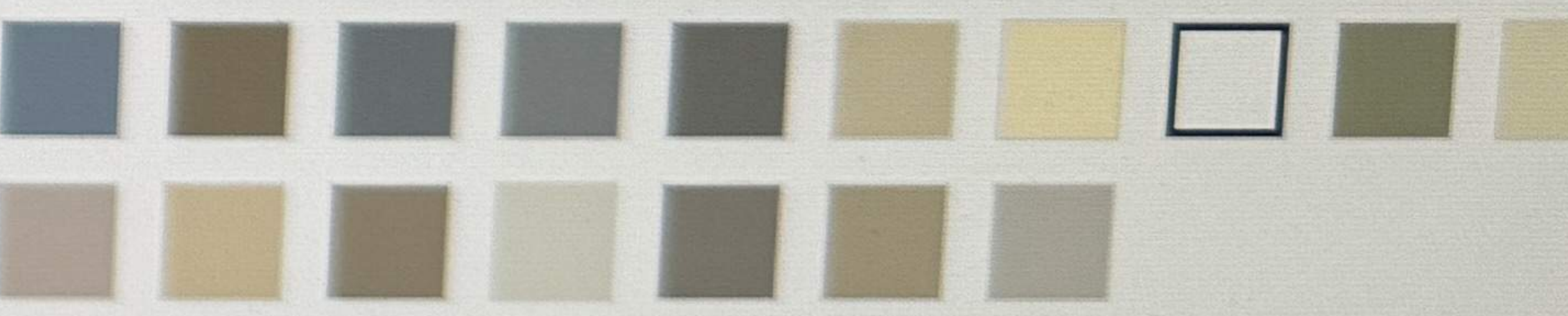
Vinyl

Color: Aspen White

New Colors



Colors



Colors not exact based on screen settings.

Available Profiles: **D4**

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Landmark[®] PRO

The Expert's Choice

 certainteed
SAINT-GOBAIN



*Landmark PRO, shown in
Max Def Driftwood*


SAINT-GOBAIN

Introducing More Value



Landmark® PRO is designed specifically for the professional roofing contractor that takes pride in providing more to their customer.

Landmark PRO improves upon the reliable CertainTeed Landmark shingle.

We started by adding more weathering asphalt to the industry's toughest fiberglass mat to provide more protection. Then we incorporated our Maximum Definition color blend technology to give the product more vibrancy on the roof. Included is the proven performance of our **NailTrak®** feature, enabling faster installation.

Landmark PRO offers the industry's strongest warranty. Protecting your reputation and safeguarding homeowners from manufacturing and aesthetic defects.

LANDMARK PRO STANDARD WARRANTY

- Lifetime Limited Warranty
- 10-years of SureStart™ protection
- 15-year 110 MPH wind warranty (Upgrade to 130 MPH available. CertainTeed starter and CertainTeed hip and ridge required.)
- 30-year **StreakFighter®** algae resistance warranty

Add it all up and what you get is the opportunity to offer a lot of additional value for the money... and today that means more than ever.

Landmark® PRO



Shown in Max Def Weathered Wood

Landmark PRO specifications:

- Premium Max Def color palette
- **NailTrak®** for faster installation
- Lifetime limited warranty
- 30-year **StreakFighter®** algae resistance
- 10-year SureStart protection includes:
 - Materials, labor, tear off and disposal cost
- 15-year 110 MPH wind warranty with upgrade to 130 MPH available
- **UL 2218 Class 3 Impact Rated**



Landmark®



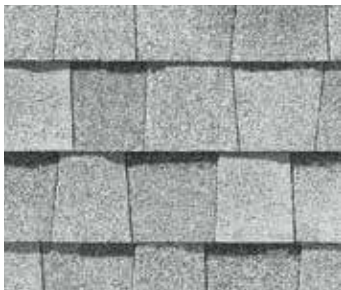
Shown in Weathered Wood

Landmark specifications:

- Traditional color palette
- **NailTrak®** for faster installation
- Lifetime limited warranty
- 25-year **StreakFighter®** algae resistance
- 10-year SureStart protection includes:
 - Materials and labor costs
- 15-year 110 MPH wind warranty with upgrade to 130 MPH available
- **UL 2218 Class 3 Impact Rated**



LANDMARK® PRO COLOR PALETTE



Silver Birch



Max Def Mojave Tan



Max Def Resawn Shake



Max Def Cobblestone Gray



Max Def Colonial Slate



Max Def Weathered Wood



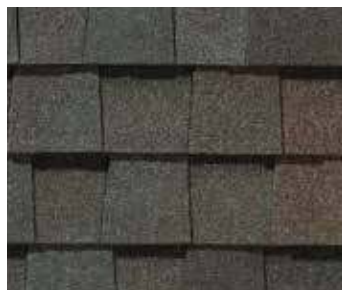
Max Def Georgetown Gray



Max Def Driftwood



Max Def Pewter



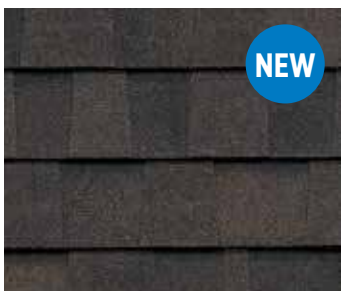
Max Def Heather Blend



Max Def Shenandoah



Max Def Burnt Sienna



Max Def Espresso



Max Def Moiré Black



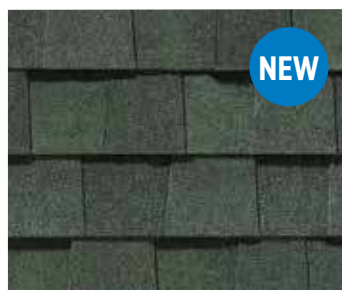
Max Def Charcoal Black



Max Def Coastal Blue



Max Def Red Oak



Max Def Evergreen



Scan code for more information

Max Def Colors

Look deeper. With Max Def, a new dimension is added to shingles with a richer mixture of surface granules. You get a brighter, more vibrant, more dramatic appearance and depth of color. And the natural beauty of your roof shines through.

NOTE: Due to limitations of printing reproduction, CertainTeed can not guarantee the identical match of the actual product color to the graphic representations throughout this publication.

StreakFighter®

Algae Resistance

The ultimate in stain protection.

Those streaks you see on other roofs in your neighborhood? That's algae, and it's a common eyesore on roofing throughout North America. CertainTeed's **StreakFighter** technology uses the power of science to repel algae before it can take hold and spread.

StreakFighter's granular blend includes naturally algae-resistant copper, helping your roof maintain its curb appeal and look beautiful for years to come.

Granule with **StreakFighter** Technology

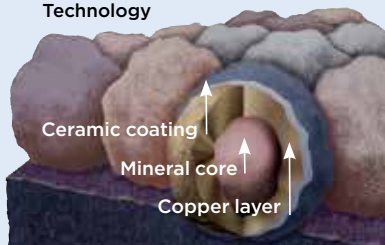


Diagram for illustrative purposes only.

NailTrak®

Fast, Accurate, Visible

The new and improved **NailTrak** nailing line, a feature on CertainTeed designer shingles.

Now **NailTrak** is brighter than ever before, with high-visibility lines that stand out whether it's daybreak or dusk.

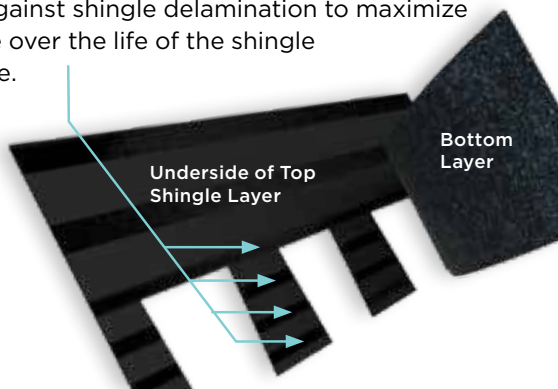
NailTrak removes the guesswork with three separately defined lines, creating a large area to guide your nailing and a smaller area for extreme steep-slope applications.



QuadraBond®

Advanced Layering

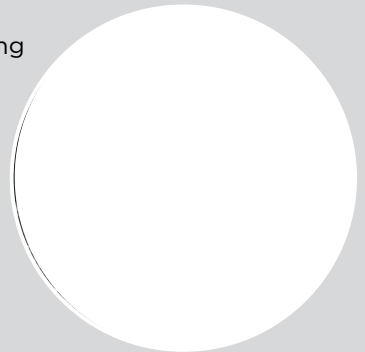
CertainTeed's specially formulated adhesive adheres shingle layers at four points, more than any other manufacturer. This superior bond provides greater protection against shingle delamination to maximize performance over the life of the shingle in any climate.



CertaSeal®

Uplift Protection

CertaSeal® is a fast-activating modified asphalt sealant with a 20-year record of proven performance. Designed to seal shingles together upon installation, it protects roofs from wind uplift and shingle blow-off so that homes stay safe and dry. It's also engineered to remain flexible after installation, unlike harder sealants that can dry out and crack over time.



Integrity Roof System™

Insist upon the Integrity Roof System™ and get the ultimate in roof performance.

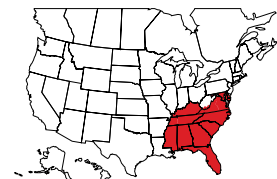
learn more at:

certainteed.com/roofing



Read our blog

Landmark® PRO available in areas shown



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Landmark® Series

11

YOUR OBJECTIVE:

To learn the correct procedure for installing Landmark® shingles.

LANDMARK SERIES

Landmark shingles have the installer-friendly NailTrak® feature, which provides 1-1/2" wide nailing area and specially formulated QuadraBond laminating adhesive (See Figure 11-3).

- ★ Landmark ClimateFlex™ is specially manufactured with SBS modified asphalt to meet UL 2218 class 4 impact resistance rating.
- ★ Landmark PRO is specially designed to meet UL 2218 class 3 impact resistance rating.

NOTE: Landmark ClimateFlex must be installed over a clean deck (no roofovers) to obtain the UL 2218 rating. It is strongly recommended Shadow Ridge ClimateFlex™ or Shadow Ridge ClimateFlex™ 4PC impact resistant cap shingles be installed on all hips and ridges. Some insurance carriers may not consider the roof system as compliant to UL 2218 Class 4 without impact resistant cap shingles.

Landmark Solaris shingles are ENERGY STAR® qualified roof products that meet both solar reflectance and thermal emissivity requirements. Using CertainTeed's advanced roofing granules, Landmark Solaris reflects solar energy and radiates heat far better than traditional roofing shingles – it can reduce the roof's temperature by as much as 20 percent in the summer.

Closed-cut valleys are preferred by CertainTeed when applying any Landmark Series shingles; however, open and woven valleys are also acceptable.

STANDARD OR STEEP SLOPES: CertainTeed recommends DiamondDeck® or RoofRunner™ Synthetic Underlayment or shingle underlayment meeting ASTM D226, D4869 or D6757. Take care to ensure sufficient deck ventilation when DiamondDeck, RoofRunner or other synthetic underlayment is installed. Follow manufacturer's application instructions.

LOW SLOPES: All roof shingles applied to a low slope deck (2" to below 4" per foot) require the use of CertainTeed WinterGuard or GRACE VYCOR™ Waterproofing Shingle Underlayment, or its equivalent,* applied over the entire deck surface. Consult the WinterGuard or GRACE VYCOR™ and individual shingle application instructions for details.

*For low slopes, underlayment equivalents to WinterGuard or GRACE VYCOR™ include:

- 1) waterproofing shingle underlayments meeting ASTM D1970;
- 2) in areas not prone to snow or ice, two layers of 36"(915 mm) wide felt shingle underlayment lapped 19"(485 mm).
- 3) in areas not prone to snow or ice, two layers of CertainTeed's DiamondDeck or RoofRunner in shingle fashion (half lap) per the low-slope application instructions.

IMPORTANT: Because water drains slowly from these slopes and the Pacific Northwest region (British Columbia, Washington, Oregon, Idaho, and Northern California) is known for its above average annual precipitation, there is a greater chance of water back-up. Therefore, after careful consideration of local weather and the application of Landmark™ Series shingles on a low slope, CertainTeed is requiring a layer of either GRACE VYCOR™ Ice and Water Shield®, GRACE VYCOR™ Ice and Water Shield® HT, or GRACE VYCOR™ ULTRA™ over the entire roof deck. A double layer of asphalt felt underlayment or synthetic underlayment is not an acceptable alternative when applying these products in the Pacific Northwest region on low slopes. For added protection, CertainTeed recommends doubling the end and side laps.

Shingle underlayment should meet ASTM D6757, ASTM D4869 Type I or ASTM D226 Type I Ensure sufficient deck ventilation when DiamondDeck, RoofRunner or other synthetic underlayment is installed. (One layer of shingle underlayment meeting ASTM D4869 applied over the required WinterGuard is also recommended.)

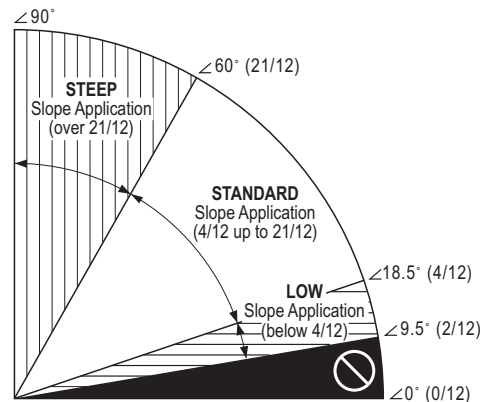


Figure 11-1: Slope definitions.

The roof deck* must be at least: 3/8" (9.5 mm) thick plywood, or 7/16" (11 mm) thick non-veneer, or nominal 1" (25 mm) thick wood deck.

COLD WEATHER CLIMATES (ALL SLOPES): Application of WinterGuard or GRACE VYCOR™ ICE & WATER SHIELD or a waterproofing shingle underlayment meeting ASTM D1970 is strongly recommended whenever there is a possibility of ice build-up. Follow manufacturer's application instructions.

FLASHING: Corrosion-resistant flashing must be used to help prevent leaks where a roof meets a wall, another roof, a chimney or other objects that penetrate a roof.

SEALING: Shingle sealing may be delayed if shingles are applied in cool weather and may be further delayed by airborne dust accumulation. If any shingles have not sealed after a reasonable time period, hand sealing may be necessary.

CAUTION: To prevent cracking, shingles must be sufficiently warm to allow proper forming for hips, ridges and valleys.

WARRANTY: These shingles are warranted against

manufacturing defects and are covered by SureStart™ protection. See the warranty itself for specific details and limitations.

* For technical questions, information on acceptable alternative application methods and materials, or a copy of the product warranty, contact the sources listed below:		Warranty	Alternate Instructions	Technical Questions
Your supplier or roofing applicator		✓		
CertainTeed Home Institute	800-782-8777	✓	✓	
CertainTeed-RPG Technical Services	800-345-1145	✓	✓	✓

FASTENING

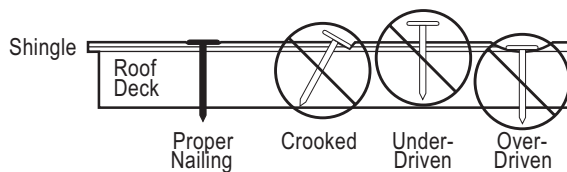
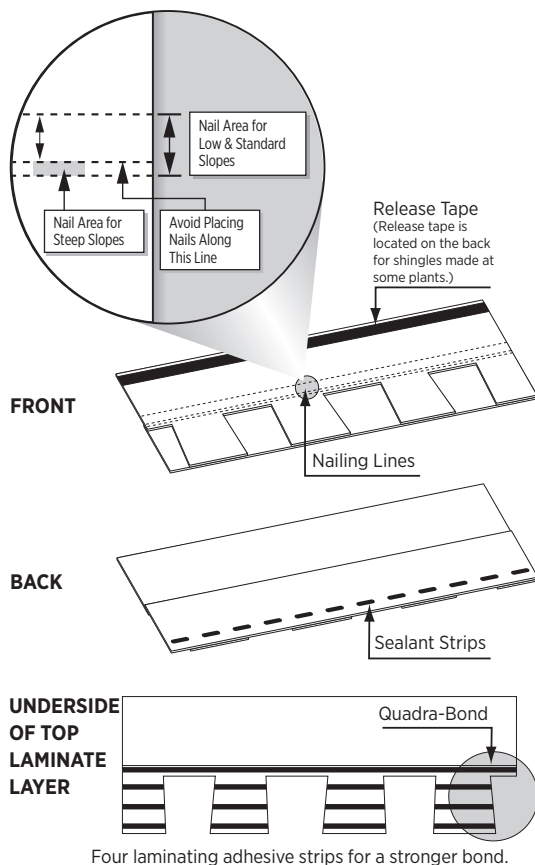


Figure 11-2: Proper and improper nailing.

IMPORTANT: For decks 3/4" (19 mm) thick or thicker, nails must go at least 3/4" (19 mm) into the deck. On thinner decks, nails must go at least 1/8" (3.2 mm) through the deck.

Nails must be 11- or 12-gauge roofing nails, corrosion-resistant, with at least 3/8" (9.5 mm) heads, and at least 1" (25 mm) long.

Figure 11-3: NailTrak features a wider nail area and



extra-strong QuadraBond construction.

LOW AND STANDARD SLOPE

Use four nails for every full shingle as shown below.

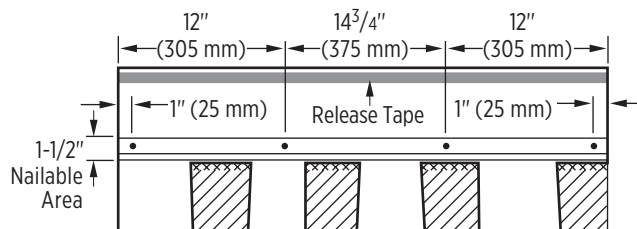


Figure 11-4: Use four nails for every full shingle.

IMPORTANT: When "six nailing" a full shingle, follow the nail pattern shown in figure 11-5, nails are placed in the 1-1/2" nailable area.

★ STEEP SLOPE

Use six nails and four spots of asphalt roofing cement for every full shingle as shown below. Asphalt roofing cement should meet ASTM D 4586 Type II. Apply 1" spots of asphalt roofing cement under each corner and at about 12" to 13" in from each edge.

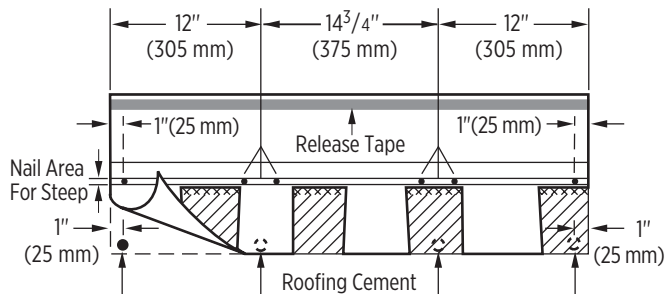


Figure 11-5: Use six nails and four spots of asphalt roofing cement on steep slopes.

IMPORTANT: Failure to follow these steep slope instructions can void the warranty in the event of a shingle delamination.

CAUTION: Excessive use of roofing cement can cause shingles to blister.

TWO CLEAN-DECK APPLICATION METHODS

FIVE-COURSE DIAGONAL METHOD (6" AND 11") FIVE-COURSE DIAGONAL METHOD (5 5/8" AND 11 1/4")

NOTE: The 6" and 11" method is shown below. The 5-5/8" and 11-1/4" method follows the same application instructions as the 6" and 11" method except the dimensions of the shingle cut-offs in the second and third courses are 5-5/8" and 11-1/4" respectively.

CAUTION: Use of other installation methods may result in an objectionable pattern.

PREPARING THE DECK:

- ◆ Apply underlayment as required. CertainTeed suggests that a layer of shingle underlayment be applied. For UL fire rating, underlayment is generally required. Apply flat and unwrinkled.
- ◆ Snap chalklines to assure shingles will be correctly aligned. Expose all shingles 5-5/8" (143 mm).

STARTER COURSE:

1. Use CertainTeed Swiftstart® Starter, or three-tab self-sealing shingles with the lower tab portions removed. Be sure that the starter shingles are at least 7-5/8" in height. (Figure 11-6).

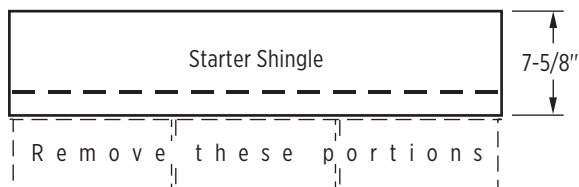


Figure 11-6: Make starter shingles that are 7-5/8" in height.

2. For the first starter, cut 6" from one side of the starter shingle.
3. Apply the remaining piece to the lower left corner of the roof. Make sure there is 1/2" overhanging the rakes and eaves if drip edge is being used. If you are not using drip edge, make the overhang 3/4".
4. Use full length starter shingles for the rest of the course.

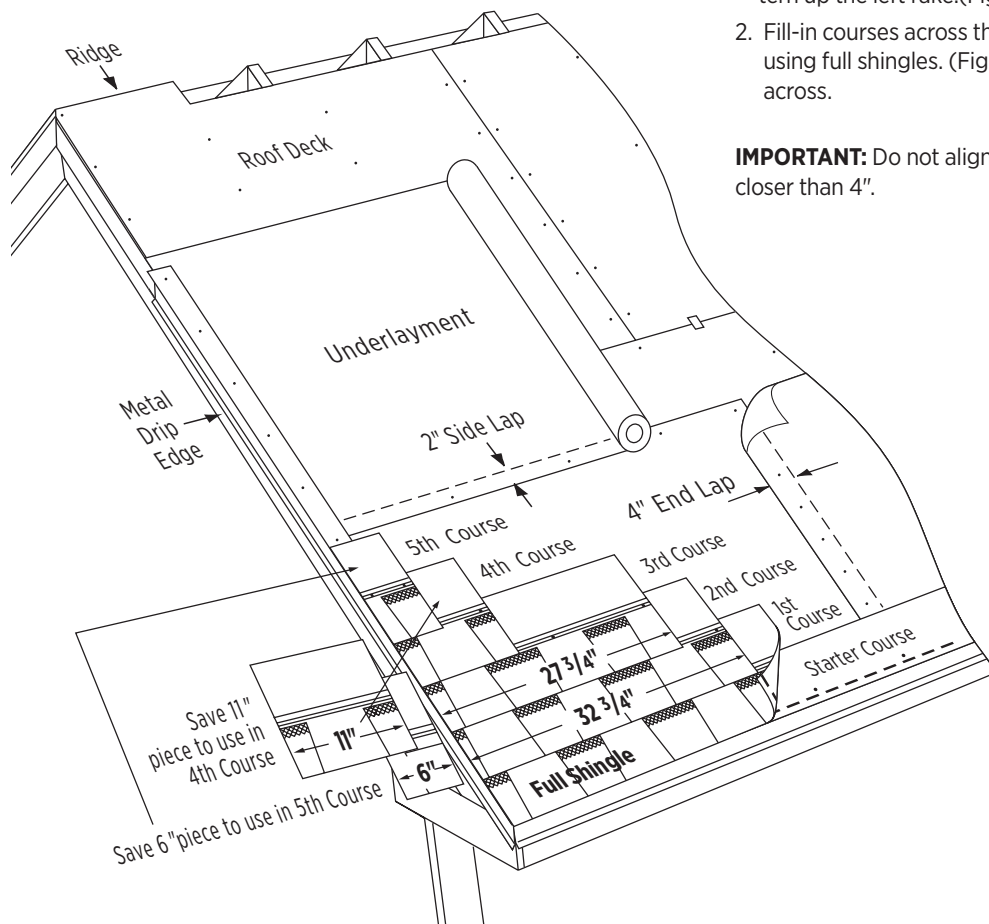


Figure 11-7: Applying the first 5 courses of Landmark.

1ST COURSE: Apply a full shingle at the lower left corner of the roof. Make the lower edge and left edge lie flush with the edges of the starter course (Figure 11-7).

2ND THROUGH 5TH COURSES:

CAUTION! Failure to follow instruction steps 1-5 below will bring joints too close together and may cause unattractive patterns!

1. Cut 6" off the left end of the first shingle and save this piece for later use. Apply the 32-3/4" long piece over and above the first-course shingle. Leave the bottom 5-5/8" tab portion of the first-course shingle exposed.
2. Cut 11" off the first shingle of the third course and save this for later. Install the 27-3/4" long piece over and above the second-course shingle.
3. Apply the previously removed 11" long piece over and above the third-course shingle.
4. Apply the previously removed 6" long piece from the second course over and above the fourth-course shingle.
5. Install a full shingle against the right edge of each shingle in courses one through five.

CONTINUING UP THE ROOF:

1. Beginning again with a full shingle, repeat the five-course pattern up the left rake. (Figure 11-8, B).
2. Fill-in courses across the roof in a stepped diagonal fashion using full shingles. (Figure 11-8, A). Do not run courses straight across.

IMPORTANT: Do not align joints of Landmark shingles closer than 4".

Figure 11-8: "Five-Course Diagonal Method" installation schematic.

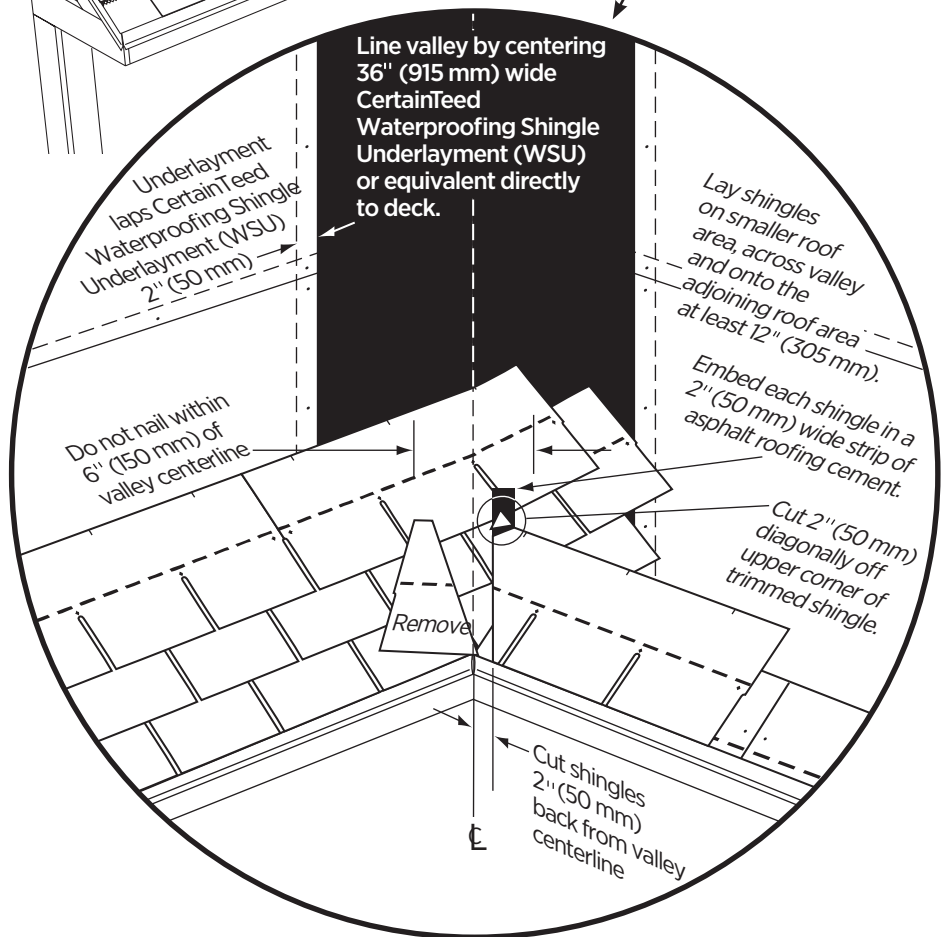
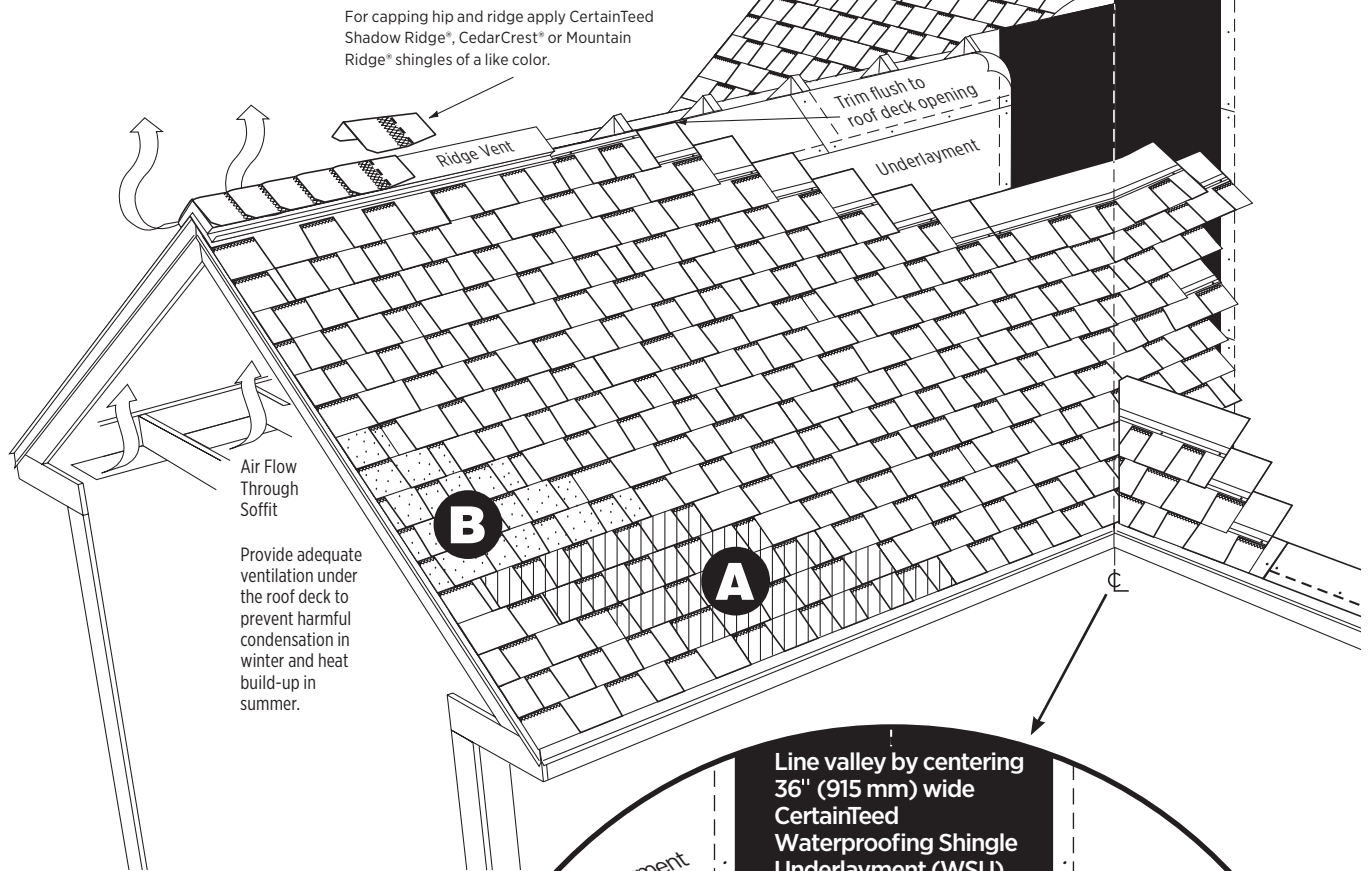


Figure 11-9: Highlight of closed-cut valley details.

CHIMNEY FLASHING

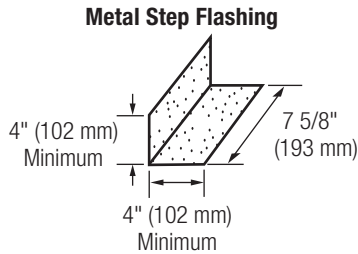


Figure 11-10: Step flashing minimum dimensions.

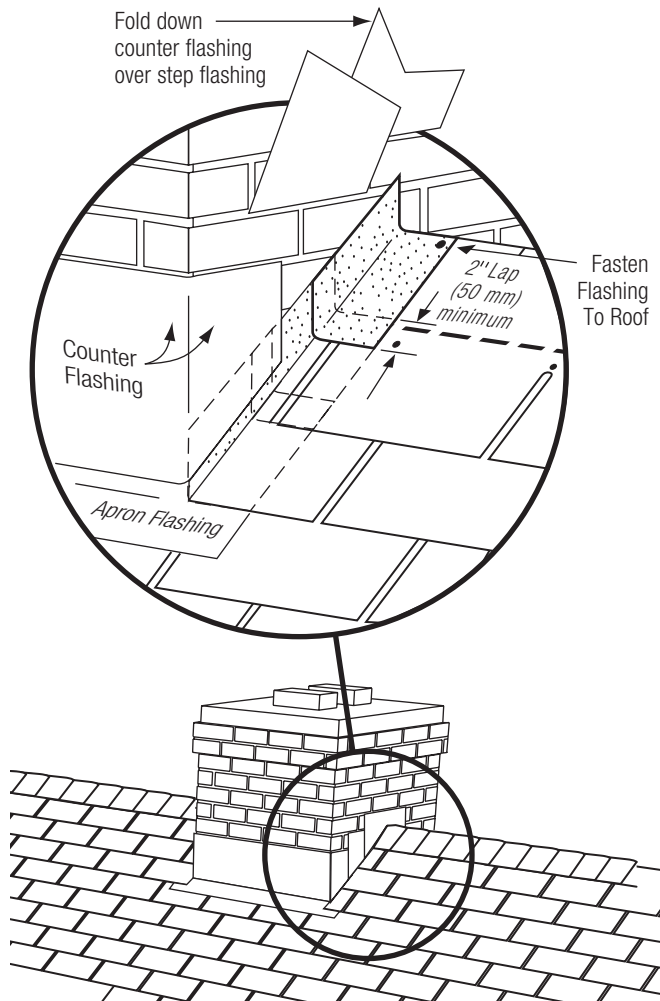


Figure 11-11: Flashing around a chimney.

TWO ROOF-OVER METHODS

The same methods used for clean-deck application of these shingles are used for roof-overs. Application of these shingles over English dimension shingles is not recommended — due to the high cost of workmanship and greater risk of worker error.

HIPS AND RIDGES

SHADOW RIDGE™ ACCESSORY SHINGLES

Shadow Ridge shingles have an accented shadow line that is designed to complement these shingles. Simply fold along the pre-cut lines and detach individual cap pieces. Save valuable installation time compared to cutting 3-tab shingles.

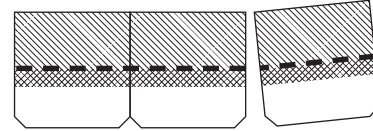


Figure 11-12: Shadow Ridge accessory shingles detach easily from three-piece units to make 72 individual cap pieces.

There are 24 three-piece units in each Shadow Ridge bundle, providing 72 individual caps that will cover 30 linear feet of a hip or ridge. Each English dimension cap piece is 12" by 12".

The Metric version detaches in to four-piece units to make 96 individual pieces and covers 45 linear feet. Each Metric dimension cap piece is 13-1/4" by 9-7/8". Both English and Metric versions feature clipped corners on the bottom edge of the exposed portion.

Application is as follows:

1. Apply shingles up to the hip or ridge on both sides, then trim flush.

NOTE: The last course of shingles should have an exposure of 5" (5-5/8" for metric) or less when the shingle cap or ridge vent is fastened in place. Otherwise, a potential water leak could occur at exposed shingle end joints. The figures used in this section illustrate the application of accessory shingles over a ridge vent; application directly to the roof deck is very similar.

IMPORTANT: Use two nails to fasten each shingle. Nails must be minimum 1-3/4" (45 mm) long.

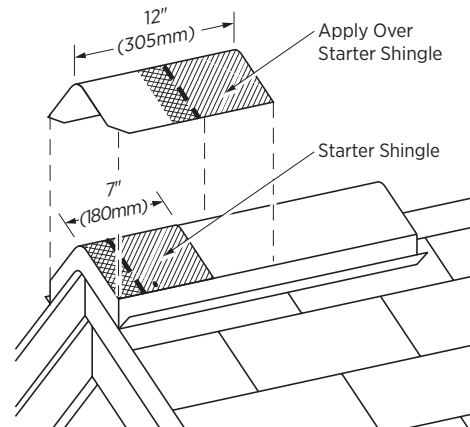


Figure 11-13: Apply a full cap shingle over the starter piece, flush with the bottom and side edges of the starter.

2. Install caps beginning at the bottom of a hip or at either end of a ridge. Apply a starter piece that has the bottom 5" (5-5/8" for metric) removed. Fasten the starter with two nails located about 3" from the rake edge, and 1" in from each side edge.

Make sure fasteners used to apply caps penetrate at least 3/4" into or through the decking.

NOTE: To assist in proper alignment when ridge vent is not used, snap a chalk line parallel to the hip or ridge along the line where the side edges of the cap shingles should be.

3. Apply a full cap shingle over the starter (Figure 11-13), and place fasteners at 5-5/8" (6-1/4" for metric) up from the exposed bottom edge and 1" in from each side. Nails must not be exposed on the finished roof. All nail heads must be driven straight and must not cut into the shingle surface.

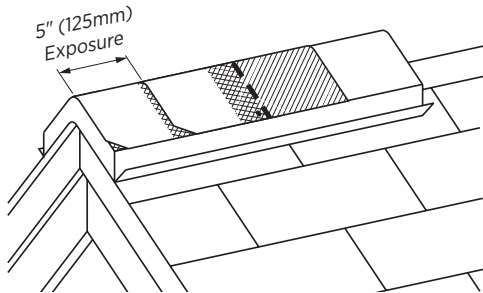
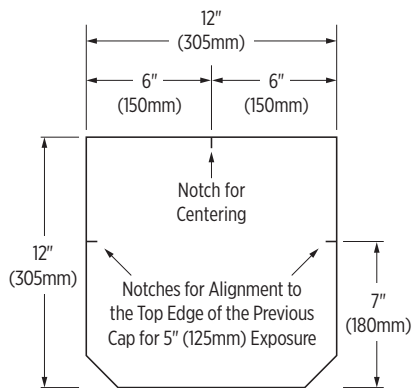
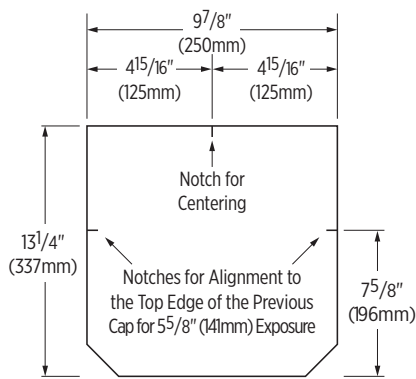


Figure 11-14: Install cap shingles at their correct exposure and cover all fasteners.

NOTE: Each cap has a laying/alignment notch at the top edge to center the piece on the ridge line, and two notches on each side to indicate the correct exposure and shadow-line placement (Figure 11-15). The side notches of the cap being applied should be aligned with the top edge of the previously applied cap.



English Dimension



Metric Dimension

Figure 11-15: Each Shadow Ridge® shingle has a centering notch and two side-alignment notches to help ensure proper placement

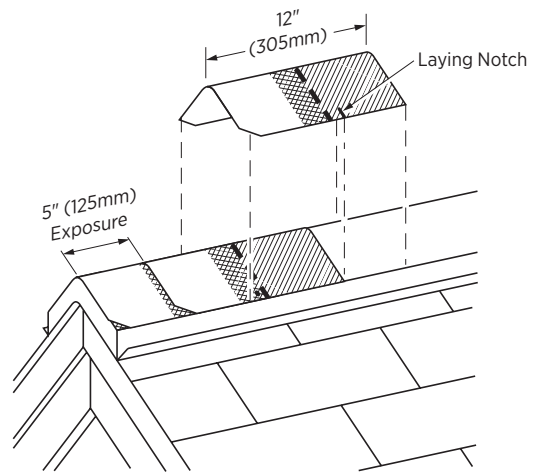


Figure 11-16: Use laying notches to center shingles on hips and ridges, and to locate the correct exposure.

MOUNTAIN RIDGE HIGH-PROFILE HIP AND RIDGE ACCESSORY

Use Mountain Ridge® accessory shingles to cover hips, ridges or rake edges. One box of 10" wide shingles will cover 20 linear feet. To prevent damage to shingles during application, they must be sufficiently warm to allow proper forming.

FASTENING

IMPORTANT: Use two nails to fasten each shingle. Nails must be minimum 1-3/4" (45 mm) long. For the 4" (100 mm) starter shingle, place fastener 1" (25 mm) in from each side edge and about 2" (50 mm) from the rake (or eave) edge, making sure the fastener goes 3/4" into the deck or all the way through. For each full Mountain Ridge shingle, place fasteners 8 5/8" (219 mm) up from its exposed butt edge and 1" (25 mm) in from each side edge.

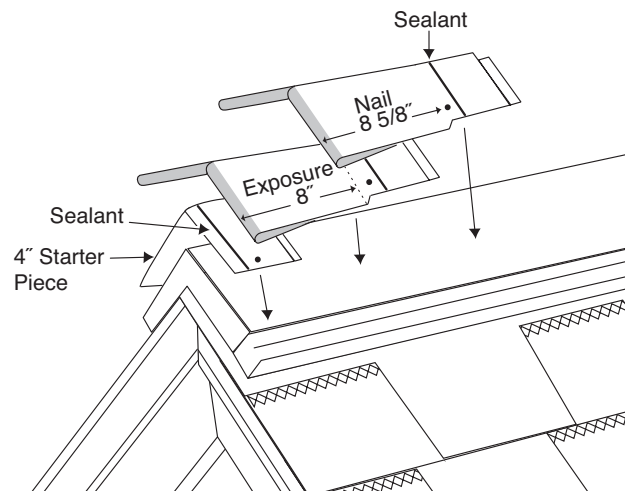


Figure 11-17: Hip and ridge application.

HIP, RIDGE AND RAKE SHINGLE APPLICATION

Apply the primary field roofing up to the hip or ridge from both sides of the roof and trim flush or lap over one side, not more than half the width of a Mountain Ridge® shingle.

Assure that the installed Mountain Ridge shingles properly cover hip and ridge field shingles on both sides and the field shingles applied along rake edges. For a rake edge installation, cut the field shingles flush to the rake edge. Apply Mountain Ridge shingles ensuring they fit securely against the rake board. To assist in proper alignment, snap a chalk line parallel to the hip, ridge or rake along the line where the side edges of the Mountain Ridge shingles should fall.

Prepare a 4" Starter shingle by cutting off the lower 8" color granule butt portion of one Mountain Ridge shingle. Apply the 4" starter piece (with sealant nearest the outer edge) over the bottom corner of the hip or rake, or on either end of the ridge, overhanging the corner or end by approximately 1/2" and bending the starter shingle along its centerline to form into place (see figures below.) Install a nail on each side about 2" up from the starter shingle's exposed butt edge and 1" in from each side edge of the shingle. The 8" piece that was cut off may be used to finish the opposite end of hip, ridge or rake.

Next, apply a full Mountain Ridge shingle over the installed starter shingle, bending it along its centerline and forming into place over the hip, ridge or rake, flush with the bottom and side edges of the starter shingle. Install a nail on each side of the shingle 8-5/8" up from the bottom edge and 1" in from each side edge.

Rake – Ensure field shingles at rake edge are flush with the outer edge of the rake board. Apply Mountain Ridge shingles fitting them snugly against the rake board. Use two color-coordinated aluminum trim or paneling nails, to pin the material to the fascia at 2"(50 mm) up from bottom edge and 2"(50 mm) and 3"(75 mm) in from front edge of shingle. (See Figure 11-18)

Continue application of the Mountain Ridge shingles along the hip, ridge or rake as shown. Expose Mountain Ridge shingles 8", covering all fasteners.

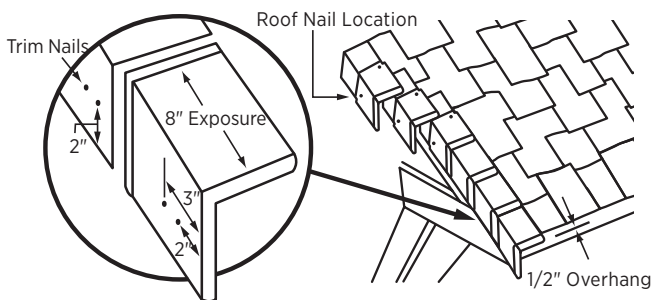


Figure 11-18: Rake edge application

CEDAR CREST MEDIUM-PROFILE HIP AND RIDGE ACCESSORY SHINGLES

Use Cedar Crest® accessory shingles to cover hips and ridges. Carefully separate the three-piece units prior to application, by first folding along the pre-cut lines and then detaching the pieces (see Figure 11-19). No cutting is necessary. There are 30 individual shingles (10 three-piece units) in each bundle. One bundle will cover 20 linear feet. Each 12" x 12" shingle has a shadowline that is a design feature which is visible when applied properly. To prevent shingle damage during application, they must be sufficiently warm to allow proper forming.

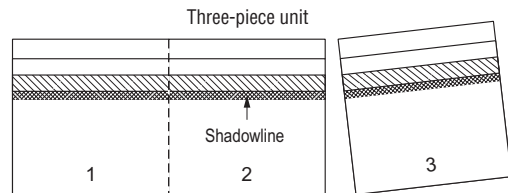


Figure 11-19: Separate to make 3 cap shingles.

FASTENING

IMPORTANT: Use TWO nails to fasten each shingle. Fasteners must be minimum 1-3/4" (45 mm) long.

For the starter shingle, place fastener 1" in from each side edge and about 2" up from the starter shingle's exposed butt edge, making sure fastener goes 3/4" into the deck or all the way through the deck. (see Figure 11-20). For each full Cedar Crest shingle, place fasteners 8-5/8" up from its exposed butt edge and 1" in from each side edge (see Figure 11-21).

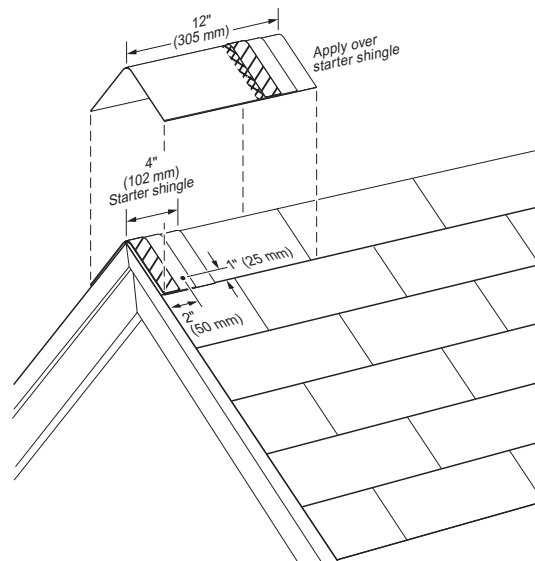


Figure 11-20: Apply a full cap shingle over the starter shingle.

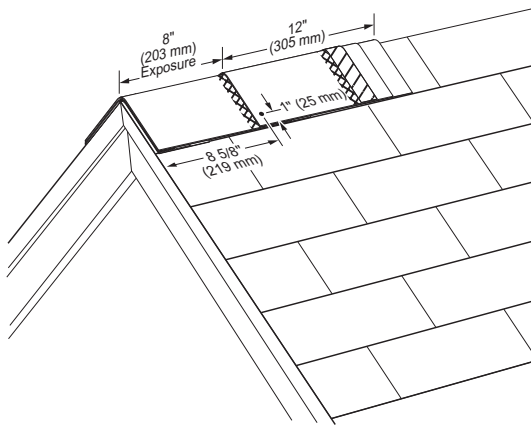


Figure 11-21: Install cap shingles at an 8" exposure and fasten with one nail on each side as shown.

IMPORTANT: High Wind Instructions. In order to achieve the ASTM D3161 Class "F" Wind Resistance Classification each "hip and ridge" shingle must be both 1) fastened with nails as shown and 2) hand-sealed with two 1/4" wide beads of either BASF "Sonolastic® NP1™ Adhesive" or Henkel "PL® Polyurethane Roof & Flashing Cement" applied from the middle of the shingle's raised overlay on the top piece and extending approximately 4" along the sides of the headlap along a line 3/4"-1" in from each side edge of the shingle's headlap as shown. Immediately align and apply the next overlying shingle, gently pressing tab sides into adhesive. Only one side of the double thickness tab is laminated together; to secure the other side, after folding the shingle over the ridge and nailing into position, a 1" diameter spot of either NP1 or PL adhesive must be applied between the shingle layers as shown. Immediately align and apply the next overlying shingle, gently pressing tab sides into adhesive.

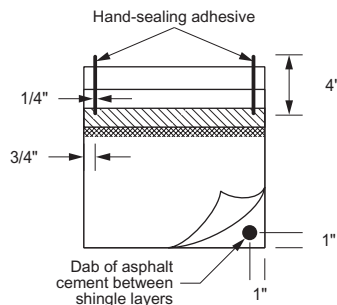


Figure 11-22: Hand seal caps as shown.

CEDAR CREST® APPLICATION

Apply primary roofing up to hip or ridge on both sides of roof and trim flush. Ensure that the Cedar Crest shingles will adequately cover the top course of the shingles on both sides of the hip or ridge. Prepare a 4" "starter" shingle by cutting off the lower 8" color granule portion of one Cedar Crest shingle. Apply the 4" starter piece with raised overlay edge over the bottom corner of the hip or to either end of the ridge, overhanging the corner or end by approximately 1/2" and bending the starter shingle along its centerline to form into place (see Figure 11-20). Install a nail on each side about 2" up from the starter shingle's exposed butt edge and 1" in from each side edge of the shingle.

Then apply a full 12" x 12" piece over the starter, bending the shingle along its centerline and forming it into place over the hip or ridge, flush with the bottom and side edges of the starter shingle. Fasten with two nails minimum 1-3/4" long with one nail on each side of shingle 8-5/8" up from the butt edge and 1" in from each side edge (see Figure 11-21).

Continue application of Cedar Crest shingles up the hip or along the ridge, forming each shingle over the hip or ridge, and fasten as shown in Fastening. Expose Cedar Crest shingles 8", covering all fasteners.

To assist in proper alignment, snap a chalk line parallel to the hip or ridge applying along the line where the side edges of the Cedar Crest shingles should be.

Here's a Tip...

In the winter put hip and ridge cap shingles in your truck with the heater blasting for 20 minutes so the caps don't crack when formed. (Thanks to Mark Dulz, Richmond, MI.)



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