

Staff Report and Comments

W.D. Beaty House, adjacent vacant parcel

2405 Kendrick Drive

Charlotte, NC

Application for COA HLC395

Exhibits presented to and considered by the Commission:

Exhibit A – Project Description

1. New single family house at 2405 Kendrick Drive, revised plans for front and side elevations.

Exhibit B – Map

Exhibit C – Project Plans

Based upon the information presented in the application, staff offers the following suggested findings of fact:

The HLC has acknowledged the need to alter or add to a historic property to meet continuing or new uses while retaining the property's historic character.

1. The proposed construction is on the subdivided parcel of the Beaty House property. The new house is a one story, single family ranch style house similar in character, setting and scale to adjacent original houses from the 1950s.
2. The proposed project meets the HLC Standard 1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.
3. The proposed project meets the HLC Standard 2. Distinctive materials, features, finishes and construction techniques or examples of craftsmanship that characterize a property will be preserved.

Staff suggests that the Commission approve the application as presented.

THE HLC STANDARDS

Rehabilitation is defined as the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features which convey its historical, cultural, or architectural values.

1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.
2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.
4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.
5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a historic property shall be preserved.
6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.
7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.
8. Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.
9. New additions, alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
10. Alterations, new additions, and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

Polaris 3G Map – Mecklenburg County, North Carolina

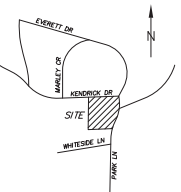
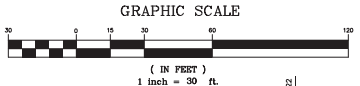
Exhibit B

Date Printed: 2/20/2024 4:15 PM



PURPOSE STATEMENT

THE PURPOSE OF THIS PLAT IS TO SUB LOT TAX PARCEL 055-294-06 INTO TWO (2) LOTS AS SHOWN ON PLAT AS LOTS 1 & 2. LOT 2 WILL BE GIFTED TO A FAMILY MEMBER.



CERTIFICATION:

I, CHEVLS L. KING, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED BY BOOK 2588 PAGE 40) AND THAT THE MATHEMATICAL CALCULATIONS OF THIS PLAT WERE MADE IN ACCORDANCE WITH G.S. 47-17 AS AMENDED BY HOUSE BILL NO. 2003-1111. **NOT FOR SALES OR CONVEYANCES**



PROFESSIONAL LAND SURVEYOR L-5188
That this plat is of a survey of another category, such as the recombination of existing parcels, a court-ordered survey or other exception to the definition of subdivision.

STATE OF NORTH CAROLINA MECKLENBURG COUNTY
REVIEW OFFICER OF MECKLENBURG COUNTY, N.C.
CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

REVIEW OFFICER _____ DATE _____

THIS PLAT IS NOT SUBJECT TO THE PROVISIONS OF THE CITY OF CHARLOTTE'S PART X OF THE UNIFIED DEVELOPMENT ORDINANCE (UDO) OR MECKLENBURG COUNTY SUBDIVISION ORDINANCES AND DOES NOT REQUIRE THE APPROVAL OF THE CHARLOTTE-MECKLENBURG PLANNING DEPARTMENT. HOWEVER, ANY FURTHER SUBDIVISION OF THIS PROPERTY MAY BE SUBJECT TO THESE PROVISIONS. CHARLOTTE-MECKLENBURG PLANNING DEPARTMENT

PLANNING DEPARTMENT STAFF _____ DATE _____

MODIFIED DRAFT FOR REFERENCE ONLY NOT FOR CONSTRUCTION

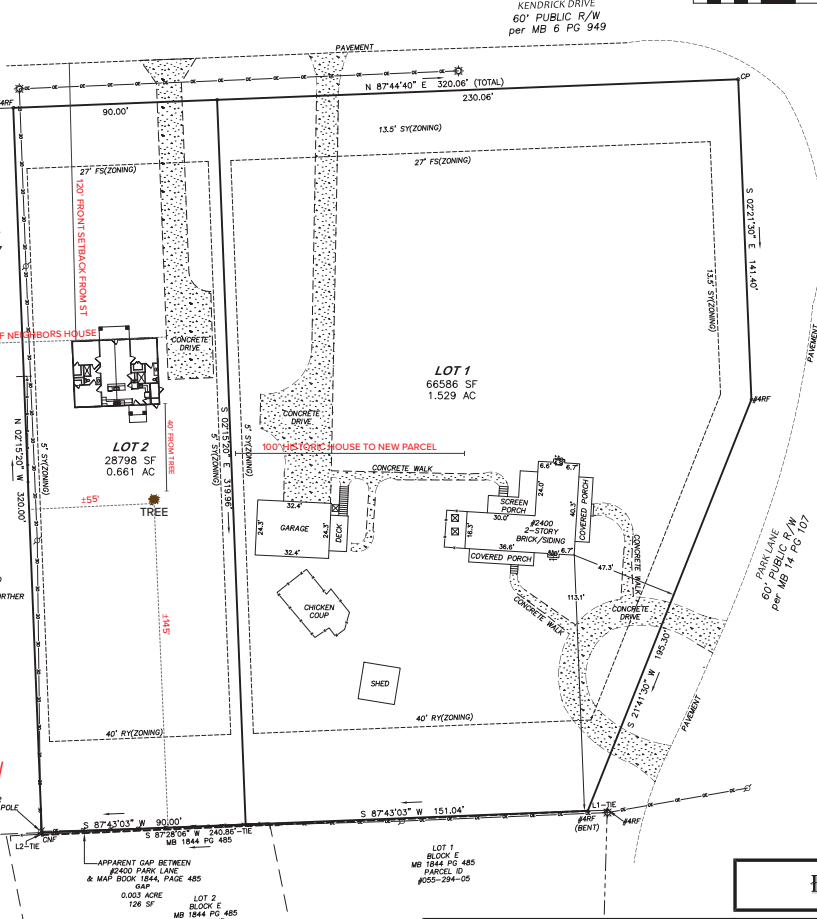
ZONING:

BUILDING SETBACK REQUIREMENTS (MINIMUM) ZONED M1-A
FRONT: 27' FEET
SIDE YARD: 5' FEET 13.5' FEET CORNER SIDE
REAR YARD: 40' FEET
MINIMUM LOT WIDTH: 70' FEET
MINIMUM LOT AREA: 10,000 SF
MAX BUILDING COVERAGE: 40%

FLOOD NOTE:

NO PORTION OF THE SUBJECT PROPERTY SHOWN HEREON LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER FEMA. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL 3710451500, DATED SEPTEMBER 2, 2015.

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NOTES:

1. AREA CALCULATED BY COORDINATE COMPUTATION.
2. ADDITIONAL PROPERTY CORNER MARKS WERE TAKEN FROM MECKLENBURG COUNTY TAX OFFICE RECORDS, AND ARE CONSIDERED AS POINTS OF CORNER UNLESS NOTED.
3. THIS MAP IS SUBJECT TO ANY AND ALL APPLICABLE DEED RESTRICTIONS, EASEMENTS, RIGHT-OF-WAY UTILITIES AND RESTRICTIVE COVENANTS AND PRELIMINARY PLAN WHICH MAY BE OF RECORD.
4. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES, MEASURED WITH ELECTRONIC MEASURING DEVICES. THE CITY OF CHARLOTTE, BUILDER/OWNER MUST VERIFY THAT LOT IS IN COMPLIANCE WITH ALL COUNTY AND TOWN ORDINANCES ADDITIONAL ZONING ORDINANCES PRIOR TO ANY LAND DISTURBANCE OR CONSTRUCTION.
5. NO FLOOD HAZARD WERE WITHIN 5000 FEET.
6. THIS PROPERTY MAY BE SUBJECT TO MAXIMUM IMPERVIOUS AREA REQUIREMENTS BEFORE MAKING ANY PROPOSALS OR REPAIRS TO THIS PROPERTY CHECK WITH THE LOCAL PLANNING OR ZONING DEPARTMENT FOR ANY RESTRICTIONS OR REGULATIONS IN PLACE.
7. UNDERGROUND UTILITIES ARE NOT LOCATED AT THE TIME OF SURVEY. SHOWN UTILITY LOCATIONS AND DEPT. ARE BASED ON LOCATIONS OF ABOVE GROUND APPURTENANCES. UNDERGROUND UTILITIES NOT SHOWN HEREON MAY EXIST.
8. TOTAL AREA - 2.19 ACRES

ABBREVIATIONS:

- RF REBAR FOUND
- NF NAIL FOUND
- R/W RIGHT-OF-WAY
- SF SQUARE FEET
- MB MAP BOOK
- DB DEED BOOK
- PG PAGE
- FS FRONT SETBACK
- RY REAR YARD
- SH SHED
- CP COMPUTED POINT
- P/L PROPERTY LINE

LINE/SYMBOL LEGEND:

- BOUNDARY LINE
- ADJONER LINE
- RIGHT OF WAY
- EASEMENT
- WOOD FENCE
- OVERHEAD UTILITIES
- UTILITY POLE
- LIGHT POLE
- HVAC

EXEMPT PLAT

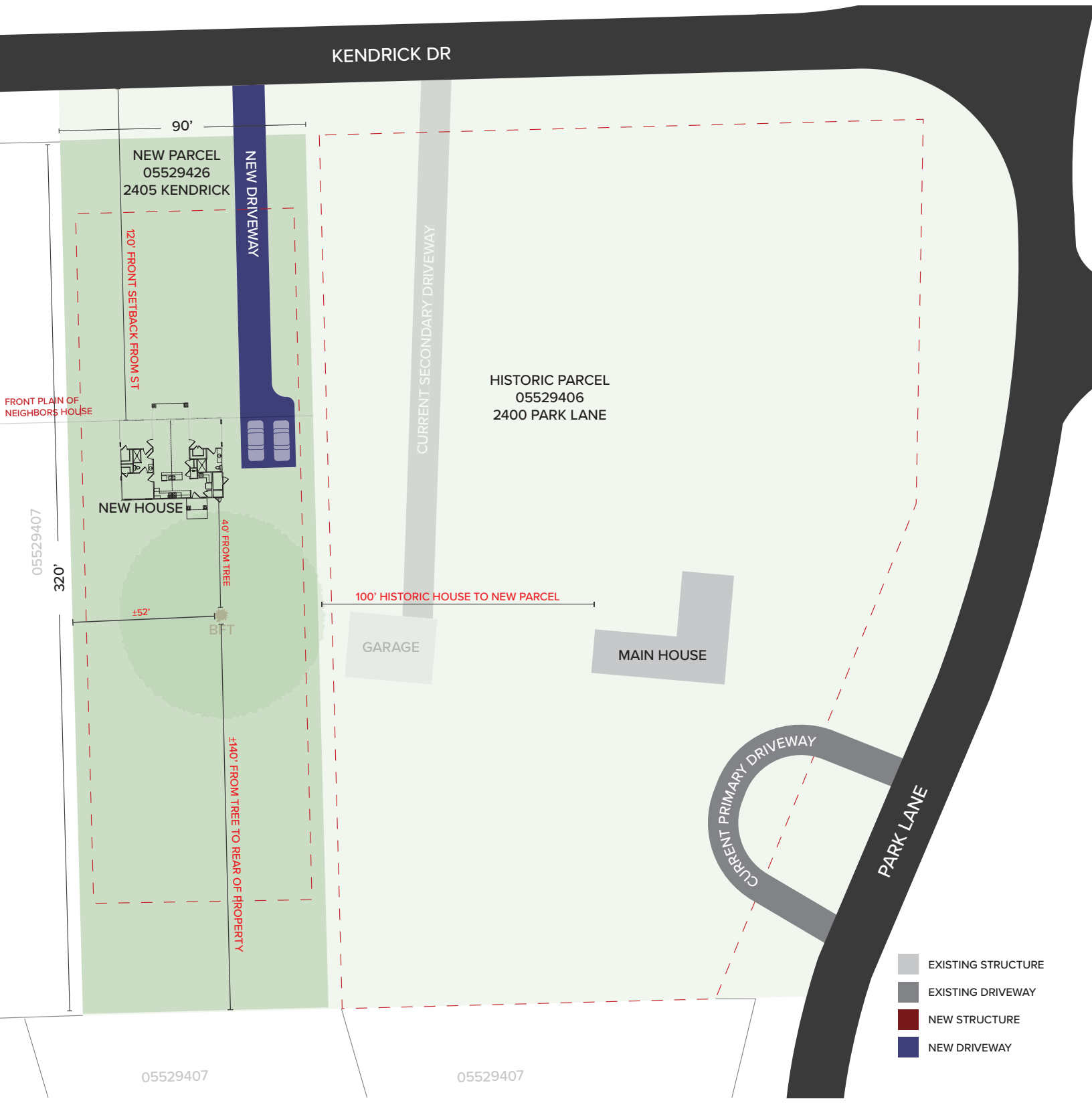
CAROLINA GEOMATICS, PLLC
LAND SURVEYING & MAPPING
409 HOSPITAL DR., STE D
GASTONIA, NC 28054
P: (980) 359-3352
CKING@CAROLINAGEOMATICS.COM NC #P-19055
WWW.CAROLINAGEOMATICS.COM

AT PROPERTY KNOWN AS
#2400 PARK LANE
PARCEL ID #055-294-06
DB 20723 PG 922
CITY OF CHARLOTTE,
MECKLENBURG COUNTY, NC
OWNER: SARAH & WILLIAM COBLE

Job No:	Drawn:	Checked:	Date:
89-23-332	AVD	CLK	7/19/23

LINE BEARING	DISTANCE
L1 N 87°44'40" E	320.06'
L2 S 12°13'21" E	11.06'

Z:\Shared\GIS SURVEY 2023\055-294-06-1111-332-2400 PARK LN\2400 PARK LN.dwg



KENDRICK DR

NEW PARCEL
05529426
2405 KENDRICK

NEW DRIVEWAY

120' FRONT SETBACK FROM ST

90'

HISTORIC PARCEL
05529406
2400 PARK LANE

CURRENT SECONDARY DRIVEWAY

FRONT PLAIN OF NEIGHBORS HOUSE

NEW HOUSE



40' FROM TREE

05529407

320'

±52'

BFT

100' HISTORIC HOUSE TO NEW PARCEL

GARAGE

MAIN HOUSE

±140' FROM TREE TO REAR OF PROPERTY

CURRENT PRIMARY DRIVEWAY

PARK LANE

05529407

05529407

- EXISTING STRUCTURE
- EXISTING DRIVEWAY
- NEW STRUCTURE
- NEW DRIVEWAY

CLIMATE ZONES	FENESTRATION U-FACTOR ^a	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^c	CEILING ^d R-VALUE	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT ^e WALL R-VALUE	SLAB ^f R-VALUE AND DEPTH	CRAM. SPACE ^g WALL R-VALUE
3	0.35	0.55	0.30	18 ^h or 30 ^h cont.	15 ^h or 13 + 2.5 ^h	5/13 ^h or 5/10 ^h cont.	19	2/13 ^h	0	5/15
4	0.35	0.55	0.30	38 ^h or 30 ^h cont. ^h	15 ^h or 13 + 2.5 ^h	5/13 ^h or 5/10 ^h cont.	19	10/15	10	10/15
5	0.35	0.55	NR	NR	15 ^h or 13 + 2.5 ^h or 16 + 3 ^h	13/17 ^h or 13/12.5 ^h cont.	30 ^h	10/15	10	10/15

TABLE N1102.1 CLIMATE ZONES 3-5

- NO SCALE**
- R-VALUES ARE MINIMUM. U-FACTORS AND SHGC ARE MAXIMUM. WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATOR, THE INSTALLED R-VALUE OF THE INSULATION SHALL NOT BE LESS THAN THE R-VALUE SPECIFIED IN THE TABLE.
 - THE FENESTRATION U-FACTOR COLUMN EXCLUDES SKYLIGHTS. THE SOLAR HEAT GAIN COEFFICIENT (SHGC) COLUMN APPLIES TO ALL GLAZED FENESTRATION.
 - INSULATED WEATHER-RESISTANT BARRIERS (WRB) SHALL BE INSTALLED ON THE INTERIOR OR EXTERIOR OF THE HOME OR IN A CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR CRAM. SPACE WALL.
 - FOR WEATHER-RESISTANT BARRIERS, WRB SHALL BE APPLIED FROM THE INTERIOR AND CONTINUED TO THE BOTTOM OF THE FOUNDATION WALL OR 24" BELOW THE FINISH FLOOR. R-5 MIN. INSULATION SHALL BE APPLIED TO THE BOTTOM OF THE FOUNDATION WALL OR 24" BELOW THE FINISH FLOOR. R-5 SHALL BE APPLIED TO THE EXTERIOR OF THE FOUNDATION WALL OR 24" BELOW THE FINISH FLOOR.
 - BASEMENT WALL INSULATION IS NOT REQUIRED IN WEATHER-RESISTANT LOCATIONS AS DEFINED BY EQUATION N1102.1 AND TABLE N1102.1.
 - OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY. R-19 MINIMUM.
 - THE FIRST VALUE IS CAVITY INSULATION. THE SECOND VALUE IS CONTINUOUS INSULATION. SO "13+2" MEANS R-13 CAVITY INSULATION PLUS R-2 INSULATED SHEATHING. "15" MEANS R-15 CAVITY INSULATION PLUS R-0 INSULATED SHEATHING. IF STRUCTURAL SHEATHING COVERS ONE OR MORE OF THE EXTERIOR INSULATED SHEATHING IS NOT REQUIRED. WHEN THE STRUCTURAL SHEATHING IS USED, IF STRUCTURAL SHEATHING COVERS MORE THAN 25 PERCENT OF THE EXTERIOR, SHALL BE SUPPLEMENTED WITH INSULATED SHEATHING OF AT LEAST R-7.5 + 2" WEATHER RESISTANT BARRIER.
 - FOR MASS WALLS, THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR MASS WALL.
 - IN ADDITION TO THE EXEMPTION IN SECTION N1102.1, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A U-FACTOR NO GREATER THAN 0.45 SHALL BE PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLY WEATHER RESISTANT.
 - IN ADDITION TO THE EXEMPTION IN SECTION N1102.1, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A SHGC NO GREATER THAN 0.30 SHALL BE PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLY WEATHER RESISTANT.
 - THE MINIMUM R-VALUE OF THE CEILING SHALL BE 18 IN CLIMATE ZONES 3 AND 4. THE MINIMUM R-VALUE OF THE CEILING SHALL BE 38 IN CLIMATE ZONE 5. THE MINIMUM R-VALUE OF THE CEILING SHALL BE 15 IN CLIMATE ZONES 3 AND 4. THE MINIMUM R-VALUE OF THE CEILING SHALL BE 13 IN CLIMATE ZONE 5. THE MINIMUM R-VALUE OF THE CEILING SHALL BE 16 IN CLIMATE ZONE 5.
 - MINIMUM R-VALUE REQUIREMENTS FOR ROOF SPACE. WHERE THE SPACE IS LIMITED BY THE SYSTEM OF THE ROOF, THERE THE INSULATION MUST FILL THE SPACE UP TO THE AIR BARRIER. R-19 INSULATION MUST BE USED TO COMPLY WITH THE MINIMUM R-VALUE OF THE CEILING. INSULATION MUST BE USED TO COMPLY WITH THE MINIMUM R-VALUE OF THE CEILING. INSULATION MUST BE USED TO COMPLY WITH THE MINIMUM R-VALUE OF THE CEILING.
 - BASEMENT WALL INSULATION SHALL MEET THE MINIMUM R-VALUE AND SPECIFIC RATIO REQUIREMENT MAY USE THE MASS WALL R-VALUE AS THE MINIMUM REQUIREMENT.

DRAWING INDEX

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- 3.0 FRONT & RIGHT ELEVATIONS
- 4.0 REAR & LEFT ELEVATIONS
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- SD1 DETAILS
- S1 FOUNDATION PLAN
- S2 FIRST FLOOR FRAMING
- S3 ROOF PLAN

Residential Designer will not be responsible for structure. Details & Notes are provided for reference only. Consult with a licensed structural engineer to verify all construction details, footing sizes, point loads, joist size and direction, etc. Plans shall be reviewed and approved by Builder and/or homeowner before construction begins. Residential designer has made every attempt to address code to the best of their ability but will not accept any liability related to code compliance, etc.



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DATE: 8.4.23

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1.0

March 2024

CLIMATE ZONES	FENESTRATION U-FACTOR ^a	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^c	CEILING ^d R-VALUE	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT ^e WALL R-VALUE	SLAB ^f R-VALUE AND DEPTH	DRUM SPACE ^g WALL R-VALUE
3	0.35	0.55	0.30	15 or 18 or 20 cont.	15 or 13 + 2 in ^h	5/13 or 5/10 cont.	19	2/13 ⁱ	0	5/15
4	0.35	0.55	0.30	15 or 18 or 20 cont.	15 or 13 + 2 in ^h	5/13 or 5/10 cont.	19	10/15	10	10/15
5	0.35	0.55	NR	NR	15 ^j or 13 + 2 in ^h or 16 + 3 ^k	13/17 or 13/12.5 cont.	30 ^l	10/15	10	10/15

TABLE N1102.1 CLIMATE ZONES 3-5

- NO SCALE
- R-VALUES ARE MINIMUM. U-FACTORS AND SHGC ARE MAXIMUM. WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATOR, THE INSTALLED R-VALUE OF THE INSULATOR SHALL NOT BE LESS THAN THE R-VALUE SPECIFIED IN THE TABLE.
 - THE FENESTRATION U-FACTOR COLUMN EXCLUDES SKYLIGHTS. THE SOLAR HEAT GAIN COEFFICIENT (SHGC) COLUMN APPLIES TO ALL GLAZED FENESTRATION.
 - INSULATE AGAINST AIR-TO-AIR CONTINUOUS INSULATED SHEATHINGS ON THE INTERIOR OR EXTERIOR OF THE HOME OR IS CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR DRUM SPACE WALL.
 - FOR MASONRY WALL INSULATION SHALL BE APPLIED FROM THE INTERIOR AND CONTINUED TO THE BOTTOM OF THE FOUNDATION. A MINIMUM OF 2" RIGID ORGANIC INSULATOR IS REQUIRED FOR ALL MASONRY WALLS. INSULATION SHALL BE APPLIED TO THE BOTTOM OF THE FOUNDATION WALL OR 24" BELOW THE FLOOR. R-5 MIN. INSULATION ABOVE TO THE REQUIRED SLAB EDGE R-VALUES FOR TYPICAL SLABS.
 - BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED BY EQUINE WIS022 AND TABLE N1102.1.
 - OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY. R-19 MINIMUM.
 - THE FIRST VALUE IS CAVITY INSULATION. THE SECOND VALUE IS CONTINUOUS INSULATION. SO "13+2" MEANS R-13 CAVITY INSULATION PLUS R-2 INSULATED SHEATHING. "15" MEANS R-15 CAVITY INSULATION PLUS R-0 INSULATED SHEATHING. (STRUCTURAL SHEATHING COVERS ONE OR MORE OF THE EXTERIOR. INSULATED SHEATHING IS NOT REQUIRED WHEN THE STRUCTURAL SHEATHING IS USED. IF STRUCTURAL SHEATHING COVERS MORE THAN 25 PERCENT OF THE EXTERIOR, SHALL BE SUPPLEMENTED WITH INSULATED SHEATHING OF AT LEAST R-7.5 + 2" WARE R-11 CAVITY INSULATION PLUS R-2.5 SHEATHING.)
 - FOR MASS WALLS THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR MASS WALL.
 - IN ADDITION TO THE EXEMPTION IN SECTION N1102.1.3, A MINIMUM OF TWO RATED FENESTRATION PRODUCT ASSEMBLIES HAVING A U-FACTOR NO GREATER THAN 0.45 SHALL BE PROVIDED TO BE SUBSTITUTES FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES. RESIDUAL FINISH.
 - IN ADDITION TO THE EXEMPTION IN SECTION N1102.1.3, A MINIMUM OF TWO RATED FENESTRATION PRODUCT ASSEMBLIES HAVING A SHGC NO GREATER THAN 0.30 SHALL BE PROVIDED TO BE SUBSTITUTES FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES. RESIDUAL FINISH.
 - THE MINIMUM REQUIREMENT FOR THE SOLAR HEAT GAIN COEFFICIENT (SHGC) OF WINDOW UNITS IS 0.30. THE MINIMUM REQUIREMENT FOR THE SOLAR HEAT GAIN COEFFICIENT (SHGC) OF SKYLIGHTS SHALL BE 0.55. INSULATION SHALL BE APPLIED TO THE BOTTOM OF THE FOUNDATION WALL OR 24" BELOW THE FLOOR. R-5 MIN. INSULATION ABOVE TO THE REQUIRED SLAB EDGE R-VALUES FOR TYPICAL SLABS.
 - TABLE VALUE REQUIREMENTS EXCEPT FOR ROOF SPACE WHERE THE SPACE IS LIMITED BY THE SYSTEM OF THE ROOF. THERE THE INSULATION MUST FILL THE SPACE UP TO THE AIR BARRIER. R-19 INSULATION WITH COMPRESSIVE AND SHEDDING TO MINIMUM. A 2" FINISH CAVITY IS REQUIRED TO COMPLETE. PRODUCE WITH R-19 OR HIGHER COMPRESSION. INSULATION IN A JOE WALL IS NOT REQUIRED TO COMPLETE.
 - BASEMENT WALL INSULATION THE MINIMUM MASS WALL SHEATHING CONTENT REQUIREMENT MAY USE THE MASS WALL R-VALUE AS THE MINIMUM REQUIREMENT.

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April 2024

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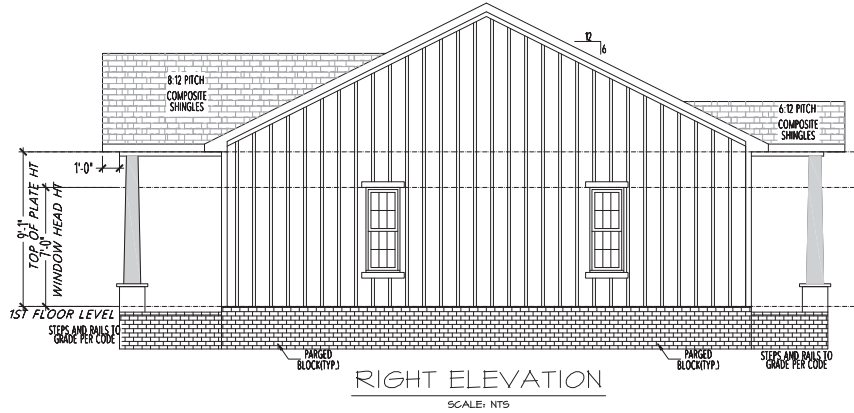
March 2024

ELEVATION NOTES

1. GRADE ELEVATIONS SHOWN DO NOT NECESSARILY REFER TO THIS OR ANY OTHER LOT. THEY ARE FOR DIAGRAMMATIC PURPOSES ONLY AND MAY VARY. BUILDER IS RESPONSIBLE FOR ADAPTING THIS PLAN TO SUIT THE EXISTING TOPOGRAPHY OF THE SITE.
2. WINDOW GRILLS SHOWN ARE TO SCHEMATICALLY EXPRESS DESIGN INTENT. ACTUAL STD. GRILLS MAY VARY PER MANUFACTURER OR CUSTOM GRILLS MAY BE REQUIRED. ANY VARIATIONS FROM THAT SHOWN MUST BE APPROVED BY BUILDER.
3. ROOF VENTILATION TO BE DETERMINED BY BUILDER AS PER CODE. DOWNSPOUTS NOT SHOWN FOR CLARITY.
4. CONTRACTOR TO VERIFY LOCATIONS W/ OWNER.
5. ALL CONSTRUCTION TO COMPLY WITH WITH N.C.R.C. 2018 RESIDENTIAL CODE.

Residential Designer will not be responsible for human error after construction begins and assumes no liability of the Residential Designer for any modifications made to these plans by others. These plans are not to be reproduced without the written consent of the Residential Designer.

THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE CORRECT INSTALLATION OF ALL EXTERIOR FINISHES AND WEATHERPROOFING.



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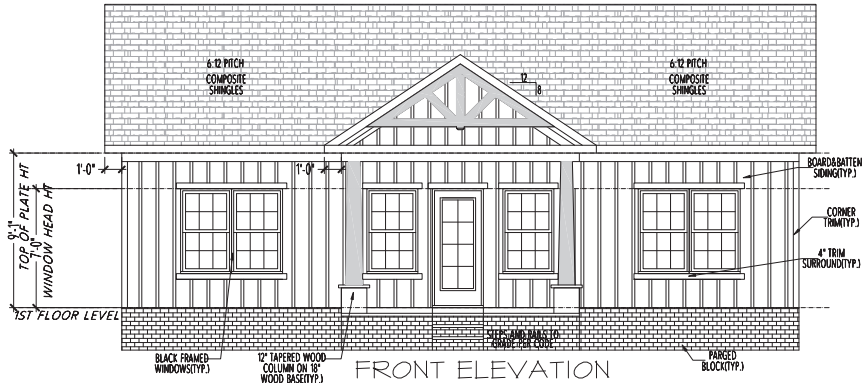
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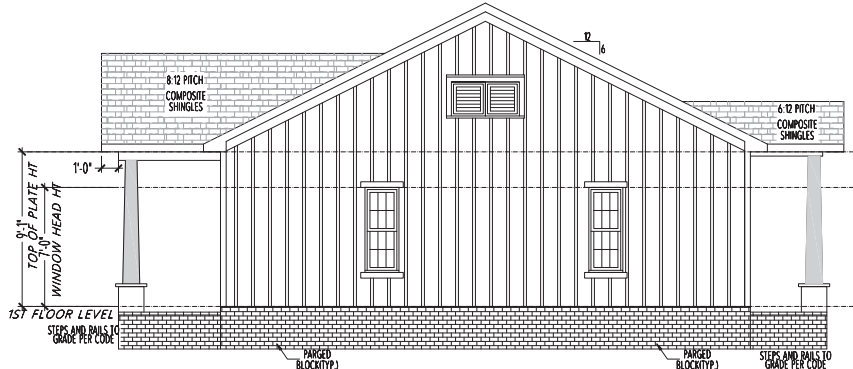
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THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE CORRECT INSTALLATION OF ALL EXTERIOR FINISHES AND WEATHERPROOFING.



FRONT ELEVATION



RIGHT ELEVATION

SCALE: NTS

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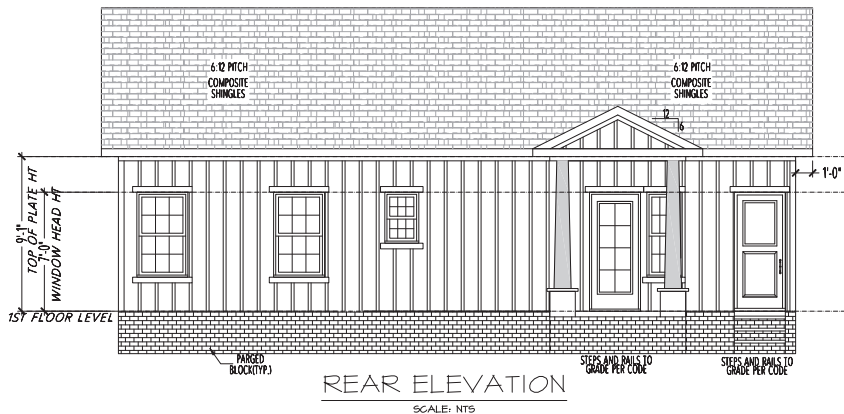
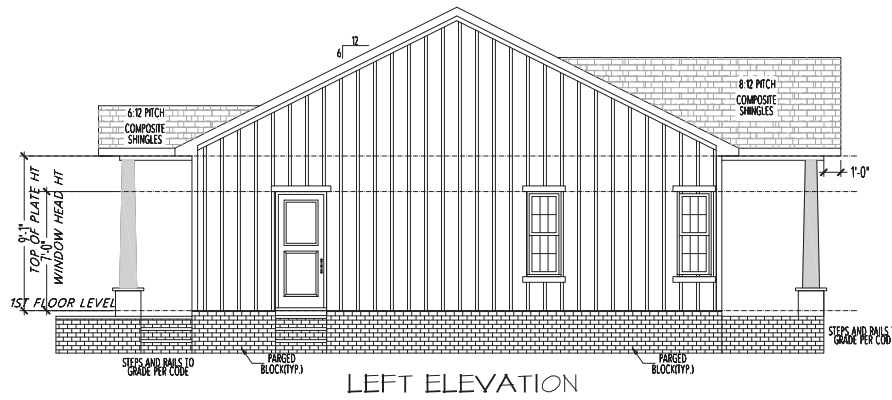
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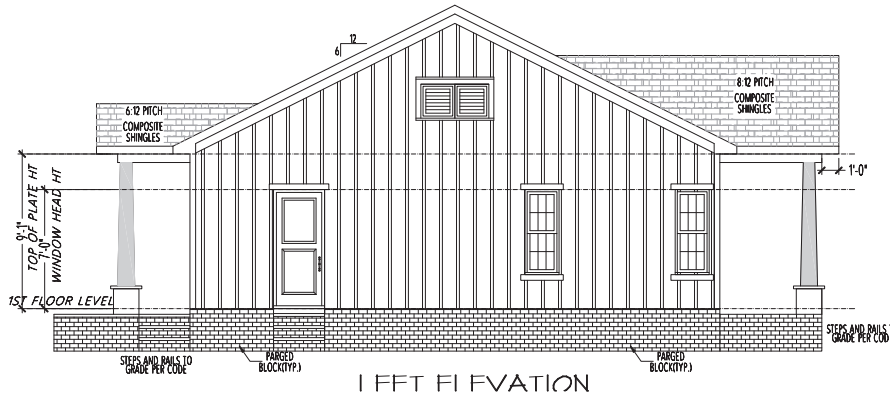
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REVISION:	
DATE:	8.4.23

SHEET NO.
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April 2024



LEFT ELEVATION



REAR ELEVATION

SCALE: NTS

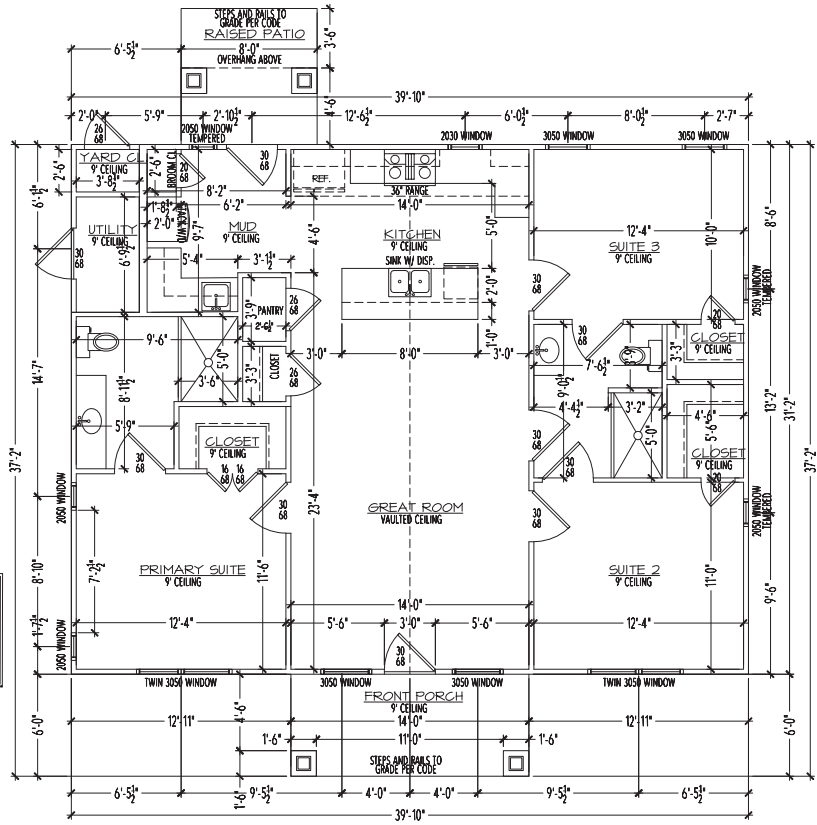
MEMBER
AIBD
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BUILDING DESIGNERS

DESIGNER
STAY LLC
2405 KENDRICK DRIVE
CHARLOTTE, NC 28214
PH: 704.366.1111
WWW.STAYLLC.COM

STAY LLC
COBLE RESIDENCE
2405 KENDRICK DRIVE
CHARLOTTE, NC 28214

DATE	2023-11-18
DRAWN BY	MAW
CHECKED BY	CAJ
DATE	8.4.23

PROJECT NO.
4.0



SQUARE FOOTAGE BLOCK	
FIRST FLOOR	1,198 SQ. FT.
TOTAL HEATED	1,198 SQ. FT.
FRONT PORCH	84 SQ. FT.
UTILITY/YARD	40 SQ. FT.
COVERED PATIO	36 SQ. FT.
TOTAL UNDER ROOF	1,358 SQ. FT.
PATIO	28 SQ. FT.

FIRST FLOOR PLAN
SCALE: NTS

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BUILDING DESIGNERS

DESIGNATED RESIDENTIAL
COURTESY OF THE CHARLOTTE-MECKLENBURG METROPLISAN GOVERNMENT
1300 WILSON ROAD, SUITE 200
CHARLOTTE, NC 28211

STAY I LLC
COBLE RESIDENCE
2405 KENDRICK DRIVE
CHARLOTTE, NC 28214

DATE: 8.4.23	SCALE: NTS
DATE: 8.4.23	SCALE: NTS
DATE: 8.4.23	SCALE: NTS

2.0

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 PLLC
 3446 Greenleaf Avenue
 Charlotte, NC 28208
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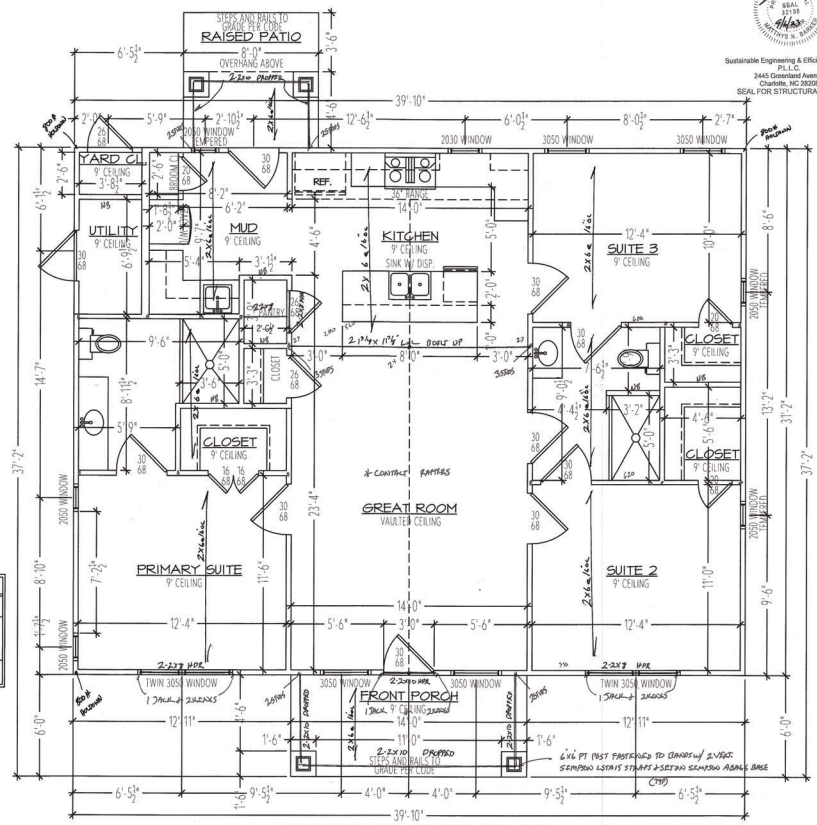
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 COBLE RESIDENCE
 2405 KENDRICK DRIVE
 CHARLOTTE, NC 28214

DATE: 8.4.23

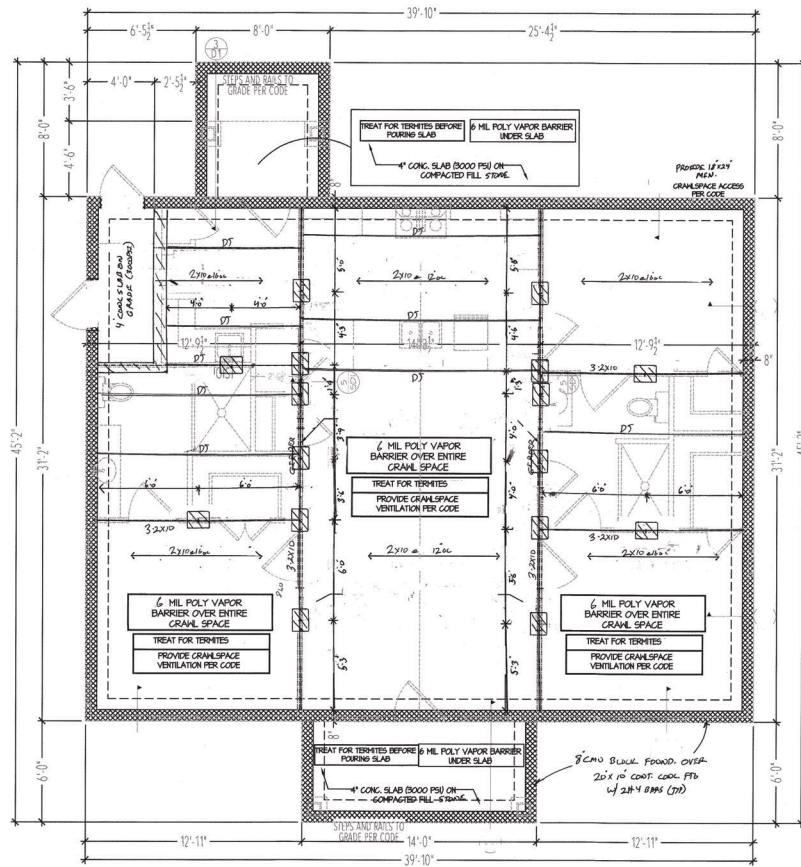
SHEET NO.
S2



FIRST FLOOR NOTES:
 ALL ATTIC FRAMING IS 2X8 @ 16" OC UNO
 ALL FIRST FLOOR HEADERS ARE 2X8 WITH 1 JACK & 1 KING STUD UNO
 PROVIDE 2 STUDS UNDER ALL ROOF BRACES UNO
 FURM DOWN CONTACT MATTERS FOR INSULATION UNO
 FASTEN CONTACT MATTERS TO EXTERIOR WALL TOP PLATES WITH SIMPSON
 HQ SA HURRICANE STRAPS @ 12" OC
 WALL BRACING PROVIDED BY CONT. 1" OSB SHEATHING FASTENED WITH 8D NAILS
 @ 6" OC ON EDGE & 12" OC IN THE FIELD TO MEET & EXCEED THE INTENT OF
 SECTION R602.3J, ENGINEERED DESIGN UNO
 NB = NON BEARING

SQUARE FOOTAGE BLOCK	
FIRST FLOOR	1,198 SQ. FT.
TOTAL HEATED	1,198 SQ. FT.
FRONT PORCH	84 SQ. FT.
UTILITY/YARD	40 SQ. FT.
COVERED PATIO	38 SQ. FT.
TOTAL UNDER ROOF	1,358 SQ. FT.
PATIO	28 SQ. FT.

FIRST FLOOR PLAN
 SCALE: NTS



CRAWLSPACE FOUNDATION
SCALE: NTS



Sustainable Engineering & Efficient Designs, P.L.L.C.
3445 Overland Avenue
Charlotte, NC 28202
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FOUNDATION NOTES:
ALL FIRST FLOOR FRAMING IS 2X10 @ 16" OC UNO
DI = DOUBLE ENDIT
PROVIDE SOLID WOOD UNDER ALL POINT LOADS UNO
ALL HAND DRAWN DIMENSIONS ARE SCALED AND ROUNDED TO THE NEAREST 1/8 FOOT UNO
PROVIDE TERMITE TREATMENT AND 6 MIL POLY VAPOR BARRIER UNDER ALL SLABS UNO

FOUNDATION KEY
 8" CMU PIER OVER 24" x 36" x 10" COAL PIT

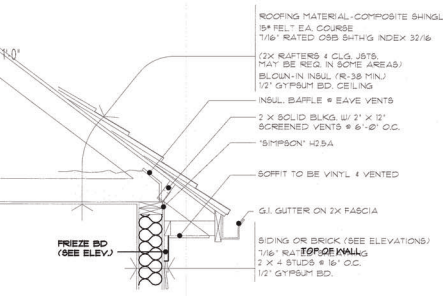
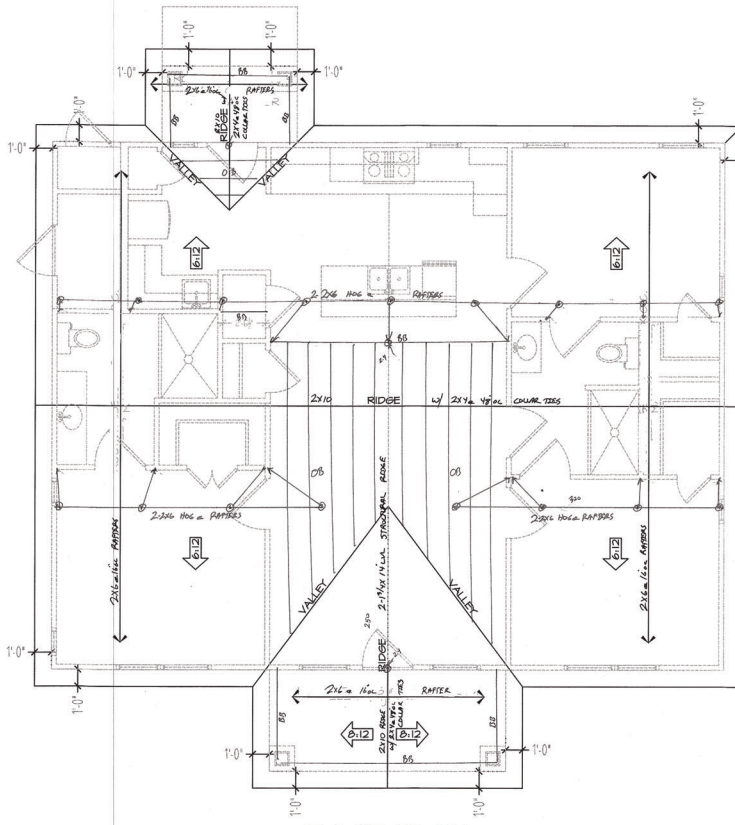
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Charlotte, NC 28202
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STAY, LLC
 CABLE RESERVE
 2405 KENDRICK DRIVE
 CHARLOTTE, NC 28214
 www.stayplans.com

CLIENT NO.	2023-48
DATE	8.4.23
REVISIONS:	
DRAWN BY:	
CHECKED BY:	
DATE:	8.4.23
SHEET NO.	S1

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ROOF NOTES:
 ALL RAFTERS ARE 2X6 @ 16\"/>

ROOFING MATERIAL - COMPOSITE SHINGLES
 1/4\"/>



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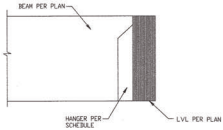


STAY LLC
 2405 KENDRICK DRIVE
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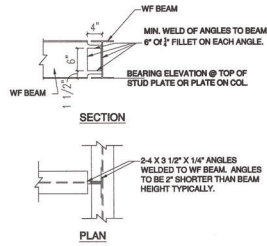
STAY LLC
 CORLE RESIDENCE
 2405 KENDRICK DRIVE
 CHARLOTTE, NC 28214

COM. NO.	2023-48
DATE	8.4.23
REVISIONS	
DATE	8.4.23

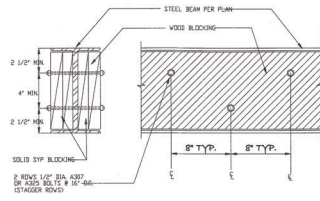
SHEET NO.
S3



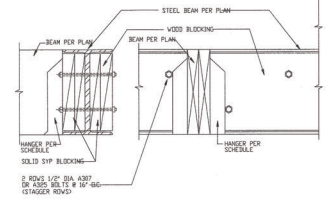
1 BEAM TO LVL CONNECTION DETAIL
SCALE=1/8"=1'-0"



2 STEEL TO STEEL CONNECTION DETAIL
SCALE=1/8"=1'-0" N/A

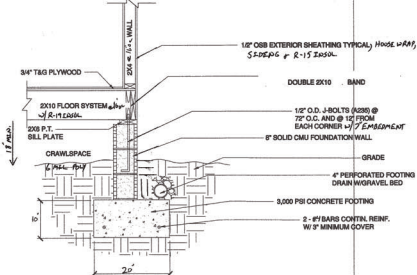


3 STEEL BEAM WEB BLOCKING DETAIL
SCALE=1/8"=1'-0" N/A



4 BEAM TO STEEL BEAM CONNECTION DETAIL
SCALE=1/8"=1'-0" N/A

TYPICAL HANGERS FOR JOISTS AND BEAMS	
MEMBER	HANGER
2x8	L2080
2x10	L2820
2x12	L3580
2x16	H4080
2x18	H4510
2x20	H5010
2x22	H5510
2x24	H6010
2x26	H6510
2x28	H7010
2x30	H7510
2x32	H8010
2x34	H8510
2x36	H9010
2x38	H9510
2x40	H10010
2x42	H10510
2x44	H11010
2x46	H11510
2x48	H12010
2x50	H12510
2x52	H13010
2x54	H13510
2x56	H14010
2x58	H14510
2x60	H15010
2x62	H15510
2x64	H16010
2x66	H16510
2x68	H17010
2x70	H17510
2x72	H18010
2x74	H18510
2x76	H19010
2x78	H19510
2x80	H20010
2x82	H20510
2x84	H21010
2x86	H21510
2x88	H22010
2x90	H22510
2x92	H23010
2x94	H23510
2x96	H24010
2x98	H24510
2x100	H25010



5 CRAWLSPACE FOUNDATION DETAIL
SCALE=1/8"=1'-0"

6 HANGER SCHEDULE
SCALE=1/8"=1'-0"

STRUCTURAL ENGINEER
Professional Seal
PROJECT NAME AND ADDRESS
COBLE RESIDENCE
2405 KENDRICK DRIVE
CHARLOTTE, NC 28214

SEED
SUSTAINABLE ENGINEERING & EFFICIENT DESIGNS, P.L.L.C.

DRAWING TITLE
STANDARD DETAILS

DATE
SEPT. 6, 2022

SHEET NO.
SD1

1. DESIGN LOADS:

- 1.1 Design loads are all dead loads plus:
A. Main floor live loads (kitchen level) 40 PSF
B. All other floors 40 PSF
C. Balconies 60 PSF
D. Decks 50 PSF
E. Suspended Garages 50 PSF
F. Attic floor live loading with the following:
i. Areas accessible by permanent stairs 30 PSF
ii. With Storage 40 PSF
iii. Without Storage 10 PSF
G. Roof live load 30 PSF
H. Wind load 115 MPH (3 Second Gust)
I. Seismic Design Criteria for Zone C.
1.2 All designs are in accordance with the 2018 North Carolina Residential Building Code, designed using ASD 2301.2.1 for all wood and steel structural elements and LRFD 2301.2.2 for all concrete structural elements.

2. FOOTINGS AND FOUNDATIONS:

- 2.1 Soil bearing capacity assumed as 2000 PSF unless noted otherwise or as determined by standard penetrometer test.
2.2 All continuous wall footings for one or two-story houses are 10" thick x 20" wide. Reinforcing in footings should be two (2) #4 bars if not noted on the plans.
2.3 All interior piers are 8"x16" CMU up to a maximum height of 32". All piers over 32" high must be filled with Type S mortar. Maximum height for 8"x16" filled pier is 6'-4". Piers larger than 8"x16" are noted on the plans or as required by height. Pier cap blocks should be 8" of solid masonry.
2.4 Footings for 8"x16" piers are 20"x30"x16" unless noted otherwise. Reinforcing to be as noted on plans.
2.5 Concrete shall have a compressive strength of 3000 PSI in 28 days unless noted otherwise. No concrete shall be poured in temperatures below 40° Fahrenheit unless heat is provided during curing for two days. The bottom of all footings must be a minimum of 12" below grade.
2.6 All rebar splices shall be a minimum of 2'-0" unless otherwise noted.
2.7 Any special foundations for structures shall be designed by a Licensed Professional Engineer upon receiving soil capacity specifications for all soil considered to affect the structure.
2.8 Chimney footings are shown on the structural design drawings. Masonry or Inconcrete chimney footings must be a minimum of 12" thick with 12" projection on all sides.
2.9 Foundation walls back-filled with soil and supporting structural framing shall be constructed as shown on detail sheet.
2.10 Special retaining wall designs to be shown on detail sheet.

NOTE: ALL POINT LOADS FROM ROOF BRACES, JACK STUDS, AND BEAM SUPPORTS - WHETHER WOOD OR STEEL - CANNOT BEAR ON SITTING ALONE. BLOCKING EQUAL TO OR BETTER THAN THE SPECIFIED STUDS OR COLUMN PROVIDED FOR POINT LOAD SUPPORT MUST BE CARRIED THROUGH ALL CONSTRUCTION TO THE FOUNDATION.

3. FRAMING CONSTRUCTION - OTHER THAN ROOF:

- 3.1 Crawlpace girders and bands as noted on plans. Maximum clear span to be 4'-8" (6'-0" o/c spacing of piers) unless noted otherwise.
To avoid most cracking in finished hardwood floors over any girders, use the following procedure:
A. Nailing Patterns
i. All floor joists must be toe-nailed to support girders with a minimum of 3-8d nails at each end from each side. Larger nails will split and reduce the toe-nail effectiveness. No end-cauling through the girder or band is permitted except for temporary construction purposes.
ii. If dropped girders are used, end-lap all joints 12" minimum and side-wall each with a minimum of 3-16d nails at each end of each joint. Ledger strips should be nailed with 3-16d nails at each joint end, with nails spaced 3" apart.
iii. Nail multiple-member bulk-up girders with three rows of 16d nails staggered at 32" o/c, 2" down from the top, 2" up from the bottom, and at mid-depth. Use 3-16d nails at each end of each piece in the joints through the members making up the multiple-girder. This nailing pattern will insure a tight floor from outside of house to outside so that when the framing shrinks during the first heating season, the shrinkage will be uniformly distributed over the entire floor.
If the girder nailing pattern is omitted, then the shrinkage will accumulate over the girders and an objectionable crack will develop in the finished hardwood floor over the girder line.
B. At all girders where the joints change direction, install bridging at 6" o/c for a minimum of six joint spacings beyond any joint direction change. This will insure shrinkage distribution over the floor and not let it accumulate at the girder.
C. There must be wood blocking through-bolted to the steel beam with joint toe-nailed and attached to the beam with metal hangers under any hardwood floors that pass over a steel beam supporting floor joists.

3. FRAMING CONSTRUCTION - OTHER THAN ROOF (CONTINUED):

- 3.2 All framing lumber must be Spruce Pine
Ft #2 unless noted otherwise.
3.3 Steel beams must have 5-2x4 jack studs under each end support unless noted otherwise on the structural plans. All studs must be nailed together with two (2) vertical rows of 16d nails at 8" o/c, unless noted otherwise.
3.4 LVL beams must have 3-2x4 jack studs under each end support unless noted otherwise on the structural plans. All studs must be nailed together with two (2) vertical rows of 16d nails at 8" o/c, unless noted otherwise.
3.5 Masonry lintels:
A. For spans up to 6 ft. Use 3/8"x2 1/2"x16" steel angles.
B. For spans from 6 ft to 10 ft. Use 5/8"x3 1/2"x16" steel angles.
C. For spans from 9 ft to 18 ft. Use a pair of 9 gauge wire splices 12" minimum and extend wires 12" minimum into jacks. Temporarily support steel angle before laying masonry. Shoring may be removed seven days following the installation of masonry.
D. When structural steel beams with bottom plates are used to support masonry, the bottom plate must extend the full length of the steel beam. This provides support to the ends of the plate by bearing on the adjacent masonry jacks. The beam should be temporarily shored prior to laying the masonry. The shoring may be removed five days after laying the masonry.
3.6 All masonry or stone veneer over lower roofs must have a structural steel angle lag bolted to the adjacent wall studs to prevent sliding of the veneer. A minimum of a triple rafter must be installed below masonry chimneys. This set veneer attachments provided by the contractor may supersede this specification. Please verify the alternative attachment procedure with the Engineer of Record.
3.7 All rafter braces must have 2 studs from the wall top plate through all floors solid to the foundation or supporting beam below. No braces shall be attached to the top wall plate without studs directly under them.
3.8 Where non-bearing parallel partitions fall between floor joists, 2x4 leaders @ 16" o/c must be placed perpendicular to the joists to support the plywood decking or double joist installed directly below wall.
3.9 All wood I-joints must be braced in accordance with the manufacturer's directions plus any details shown on the plans. Load bearing partitions, joists, beams and column supports must be solidly blocked through the floor as the joists and plywood may not be able to carry the concentrated point loads. All point loads must be carried to the foundations with blocking and/or beams. (NOTE: All beams and double joists, etc. have been shown for a load bearing purpose. Placement of the load carrying members shown in the plans in locations other than under the structural element they are intended to carry is the responsibility of the contractor. Exact beam locations are not to be scaled from the framing plans.)
3.10 All two-story open rooms with full height openings must be braced to resist pressure resulting from 115 MPH design fastest-mile wind speed or as prescribed for specified wind zones per ASCE 7-98. Any special wall reinforcing shall be shown on the plans provided. Two-story open rooms must be balloon-framed with 2x6 @ 16" o/c as a minimum (no exceptions).
3.11 Stud walls to be listed below unless otherwise noted on the structural plans:
A. Interior One & Two Story Walls (with intermediate floors)
i. Load bearing 2x4 @ 16" o/c
ii. Non-load bearing 2x4 @ 16" o/c
B. Interior Three Story Walls
i. Load bearing (2nd & 3rd Floor) 2x4 @ 16" o/c
ii. Load bearing (1st Floor) 2x4 @ 12" o/c or 2x4 @ 16" o/c
iii. Non-load bearing 2x4 @ 16" o/c
C. Basement Walls
i. Load bearing 2x4 @ 12" o/c
ii. Non-load bearing 2x4 @ 16" o/c
D. Exterior Walls
Esterior walls for three stories shall be 2x6 @ 16" o/c with 1/4"x4"x8" OSB sheathing or C-DS plywood over entire exterior.
3.12 Headers shall be as shown on the plans.
3.13 When ceiling joists are parallel to an exterior wall and rafters bear on the exterior stud wall's top plate, tie the rafters near the top plate to the ceiling joists with 6 long 2x6 runners at 4' o/c across the top of the ceiling joists.
3.14 At all bay windows, each panel shall be nailed to each adjacent panel with 5-16d nails tied together with metal strapping nailed at four locations between floors with a minimum of 2-16d nails in each panel at each step. This will help prevent vertical cracking in the panel joints due to horizontal oscillation of the panels.
3.15 At all stairs, every stud at each stringer must be nailed to each stringer with a minimum of 2-16d nails. This will help prevent cracking between the wallboard and the top of the base molding due to vertical oscillation of the stair stringers.
3.16 Steel pipe columns must be in contact with the supported member and continue solid to the supporting masonry or concrete foundation. No intermediate wood blocking should be used as it will crack. Pipe columns are to be welded to the bottom flange of all steel beams with a continuous fillet weld. Steel plates should be welded to the top of pipe columns with two holes to allow for a minimum of two 3/8" diameter screws into all wood beams.

4. FOUNDATION WALLS

- 4.1 All full height foundation walls are shown on structural detail sheet.
4.2 All masonry or concrete basement wall construction must be inspected by the County Building Official, Architect, or Engineer for compliance with structural specifications.
4.3 Where full-height foundation or basement walls run parallel to floor framing, blocking must be provided between joists at 3'-0" o/c for not less than six joint spacings out from wall.
4.4 Details of any earth retaining structures not attached to the house structure will be shown on separate details. (These walls may be designed only after grade conditions are known.)

5. ROOF CONSTRUCTION

- 5.1 Rafters shall be 2x6 SPP #2 @ 16" o/c for standard weight shingles except as noted. They are to be cut into hips, ridges, etc., unless noted as over-balls.
5.2 Collar ties shall be 2x6 @ 48" o/c at all ridges unless noted otherwise and located a minimum 3" below the ridge. Collar ties may be closer to ridge if alternate bracing provided. Vaulted ceilings require special collar tie details or structural ridge beam. See plans as required.
5.3 A minimum of three collar ties shall be used at all ridges even if two ties may be put on one set of rafters.
5.4 All hips and ridges are a size larger than the rafters framing into them unless noted otherwise.
5.5 All hogs on ceiling joists or rafters are 8" long 2x6 hog troughs unless noted otherwise. Rafters may be spliced over hogs.
5.6 Gable end framing must be braced parallel to ridges with a minimum of 2x6 diagonal braces @ 6' o/c along the gable wall to the interior ceiling joists. Braces are to bear on 2x6 hogs and top plate wall at approximately mid-height of gable wall. Braces shall be at approximately a 45° angle. Other bracing may be used if it meets the Engineer's approval.
5.7 Carry braces to partitions or beams below. Never brace rafters hogs to 2x6 hogs on ceiling joists, unless shown on plans.
5.8 Ceiling joists when erected parallel to rafters must be sistered to rafters and nailed with 3-16d nails at each rafter. If a knee-wall is used and ceiling joists cannot touch rafters, then rafters must be braced to the ceiling joists with 2x4 diagonal rafter ties spaced @ 48" o/c. Reverse collar ties may be used behind kneewalls.
5.9 Roof Flus Legend:
A. Arrow location of roof brace at rafter level.
B. Arrow away from brace point indicates direction of roof brace to partition, beam or other brace point below.
C. Arrow into brace point indicates a vertical or almost vertical roof brace to partition, beam or other brace point below.
D. All roof braces are 2x4 1" nailed with 16d nails @ 9" o/c vertically from top to bottom. All braces longer than 10' must be braced horizontally in two directions at mid-height or be increased to 2x6s.
E. Maximum spacing of roof braces to be as follows:
i. For 2-2x6 hog 6'-0" o/c
ii. For 2-2x8 hog 7'-6" o/c

6. WALL BRACING PER R.602.10

This structure has been analyzed by the professional engineer of record for lateral loading. It has been designed using continuous (C) OSB sheathing fastened to the exterior wall framing with 8d nails at 6" on center and 12" on center in the field, to meet and exceed the intent of the 2018 North Carolina Residential Building Code. Where braced wall lines require additional reinforcing, engineered walls sections and hold downs have been provided.

All R602 hold downs are to be Simpson LSTA15 or MSTA15 vertical straps fastened to a minimum of a two stud pocket and the floor band.

EMF- Engineered Moment Frame



STRUCTURAL ENGINEER
ROBERT S. SEEFORD
LICENSE NO. 10000
EXPIRES 12/31/2024

PROJECT NAME AND ADDRESS
COBLE RESIDENCE
2405 KENDRICK DRIVE
CHARLOTTE, NC 28214

SEEFORD
SUSTAINABLE ENGINEERING & EFFICIENT DESIGNS, PLLC.

DRAWING TITLE
GENERAL NOTES

DATE
SEPT. 6, 2023

SHEET NO
SGN