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NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

05/23/2025

REV1

Square Footage

Living Areas	
First Floor	918 SF
Second Floor	1129 SF
2046 SF	
Unfinished Areas	
Front Covered Porch	117 SF
Garage	447 SF
Outdoor Lvg.	180 SF
744 SF	
Square Footage total may vary by +1 SF due to automated rounding of first and second floor area	

Redraws

Plan Review: 3/28/25
REDRAW TO CHANGE REAR DOOR TO DBL. SWING DOOR

Plan Review: 5/16/25
REDRAW TO ADD CUSTOM FRONT ELEVATION

Division: RALEIGH

Building Code: 2018 NC Building Code – Residential	
Index to the Drawings	
Sheet No.	Sheet Name
0C.1	Cover Sheet
0N.1	General Notes
0P.1	Plot Plan
2.01F	First Floor Framing Plan
2.01S	First Floor Structural Plan
2.02F	Second Floor Framing Plan
2.02S	Second Floor Structural Plan
2.04	Roof Plan
3.02	Second Floor Subfloor Plan
4.01	First Floor Mechanical Plan
4.02	Second Floor Mechanical Plan
5.01	Building Section
6.01	Front Elevation
6.02	Garage Side Elevation
6.03	Rear Elevation
6.04	Side Elevation
7.01	House Specific Details
SD-1.0	Structural Notes
SD-2.0	Structural Notes

Space for Architect Seal

RESIDENCE FOR:
PETTY
48 GRACEFUL ROW
SERENITY

Job Number: STY5-0351-00	Drawing Date: 2/26/25	Coord Name: GREG P.	Coord Phone: 859.578.4355
House Name:		Drawing Scale: 1/8" = 1'0"	
the GRACE		Contract Drawn By: GLP	
		Series:	
Born on Date: 11/11/22		CDs Drawn By: CLM	
		Plan No.:	

8521 Six Forks Road, Suite 500, Raleigh, NC 27615
Phone: (919) 844-9288

Sheet Information

0C.1

Cover Sheet
Elevation "A"

Architecture Plan Review:

☒ No Comments ☐ See Comments

Items drawn on any drawings and not written in the contract sections **WILL NOT** be included in the site specific drawings.

Customer Request:	Design Solution:	Reason For Modification:	Comments:
1. XXX	1. XXX	1. XXX	1. XXX
2. XXX	2. XXX	2. XXX	2. XXX
3. XXX	3. XXX	3. XXX	3. XXX
4. XXX	4. XXX	4. XXX	4. XXX

Customer Plan Review Signature

I understand that my new Drees home will be built in general conformance to the plans, specifications, selections and the Purchase Agreement, all of which I have reviewed and approved. This set of plans may not reflect the elevations or options for my house. Drees draws the standard plans complete with the most common options. The subcontractor's sets will show only the options I selected in my selection sheets. I have reviewed the plot plan for my house and understand that there may be some field adjustments as to the exact location of the house on the lot. I further understand that my home will not be built exactly like any other Drees home or Model and that some minor variations from my plans and specifications may occur since every home that is built has it's own set of unique construction problems that must be dealt with as the home is being built.

Customer: _____ Date: _____

Customer: _____ Date: _____

5/16/2025 11:23:41AM

GENERAL NOTES - RALEIGH

FOUNDATION NOTES

CRAWL SPACES:

- SLOPE CONCRETE SLAB 4" MINIMUM TOWARDS GARAGE DOOR
- EXTERIOR FLATWORK/GARAGES SHALL HAVE A MINIMUM CONCRETE STRENGTH OF 4,500 PSI
- FOOTINGS TO A MINIMUM CONCRETE STRENGTH OF 2500 PSI, UNLESS OTHERWISE NOTED
- ASSUMED ALLOWABLE SOIL BEARING PRESSURE: 2,000 p.s.f.
- WATERPROOF FOUNDATION WITH BITUMINOUS SPRAY.
- WALL TIES EMBEDDED IN THE HORIZONTAL MORTAR JOINT SHALL BE 16" ON CENTER. TIES IN ALTERNATE COURSES SHALL BE STAGGERED. THE MAXIMUM VERTICAL DISTANCE BETWEEN TIES SHALL NOT EXCEED 16" AND THE MAXIMUM HORIZONTAL DISTANCE SHALL NOT EXCEED 16" ADDITIONAL TIES SHALL BE PROVIDED AT ALL OPENINGS, AND WITHIN 12" OF THE OPENING.
- CORE FILL ENTIRE BLOCK WALL WHEN THE WALL IS 4'-0" TALL OR HIGHER. INSTALL #4 REBAR IN EACH HOLLOW AREA OF EACH BLOCK FROM FOOTING TO TOP OF WALL, ON THE ENTIRE WALL PRIOR TO CORE FILLING IT.
- TOP COURSE OF BLOCK ON ALL WALLS WILL BE FILLED SOLID WITH MORTAR PLACING THE FOUNDATION STRAPS OR BOLTS IN THE MORTAR 6'-0" ON CENTER, AND 12" FROM EACH CORNER.
- 12"x16" PIERS: HOLLOW MASONRY UP TO 48" HIGH, SOLID MASONRY UP TO 90" HIGH
- 16"x16" PIERS: HOLLOW MASONRY UP TO 64" HIGH, SOLID MASONRY UP TO 120" HIGH
- BLOCK PIERS SHOULD BE PLACED DIRECTLY ON CONCRETE FOOTINGS PER PLAN. THEY SHOULD BE PLUMBED AND SQUARE WITHIN 1/4".
- SILL PLATES TO BE A MINIMUM OF 2x4 NOMINAL LUMBER.

FRAMING NOTES

DESIGN LOADS:

FLOORS:	40 psf LIVE LOAD + 10 psf DEAD LOAD = 50 psf	GARAGE FLOOR: 50 psf LIVE LOAD	SEISMIC: "A" & "B"
ROOF:	18 psf LIVE LOAD + 17psf DEAD LOAD = 35 psf	WIND SPEED: 120 MPH	
DESIGN DEFLECTION LIMITS (BASED ON LIVE LOAD, EXCEPT MASONRY):			
RAFTERS GREATER THAN 3:12	L/180	CEILINGS	L/240
MASONRY VENEER	L/600		
NOMINAL LUMBER FLOORS:	L/360		
MANUFACTURED WOOD FLOORS:	DESIGNED TO MINIMUM PRO RATING OF 35 (OR EQUIVALENT).		
	NO MORE THAN 8 POINT DIFFERENCE BETWEEN ADJACENT SPANS.		
	L/480 FOR SPANS UP TO 16'-0" <u>AND</u> NO GREATER THAN 1/2" DEFLECTION		
	L/600 FOR SPANS OVER 16'-0" IF SIMPLE SPAN <u>AND</u> NO GREATER THAN 1/2" DEFLECTION		
	L/840 FOR SPANS OVER 16'-0" IF CONTINUOUS SPAN. <u>AND</u> NO GREATER THAN 1/2" DEFLECTION		

- JOIST SPACING: 19.2" o.c. MAXIMUM SPACING
- DOUBLE EVERY OTHER FLOOR JOIST UNDER KITCHEN ISLANDS
- INSTALL UNCOUPLING MEMBRANE IN TILE FLOOR AREAS IF 19.2" o.c. FLOOR JOIST SPACING
- GLUE AND MECHANICALLY FASTEN [SCREWS] WOOD FLOOR IF 19.2" o.c. FLOOR JOIST SPACING
- MANUFACTURED WOOD PRODUCTS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL WOOD BEAMS AND I-JOISTS) SHALL BE FABRICATED, HANDLED, AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- JOISTS ARE NOT TO BE PLACED DIRECTLY OVER INTERIOR PARALLEL WALLS. (TO PREVENT UNEVEN FLOOR DEFLECTION FROM OCCURRING)
- ALL WOOD BEAMS/HEADERS: 2x6's TO BE SPF STUD GRADE OR BETTER/ 2x8 OR LARGER TO BE SYP #2 [PER NDS 2012] OR BETTER, U.O.N.
- ALL HEADERS SHALL BE SUPPORTED BY (1) 2x JACK STUD AND (1) 2x KING STUD MINIMUM. THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACKS REQUIRED. U.N.O. AT FLUSH OR DROPPED BEAMS, THE NUMBER OF STUDS SPECIFIED INDICATES THE TOTAL NUMBER OF STUDS REQUIRED TO SUPPORT THE BEAM.
- EXTERIOR WALLS TO BE 2x4 SPF STUD GRADE AT 16" o.c. UNLESS OTHERWISE NOTED (10'-4-1/2" MAXIMUM WALL HEIGHT)
- ALL INTERIOR BEARING WALLS AND WALLS AT BASEMENT & FIRST FLOOR STAIRWELLS, KITCHEN, BATH, & GARAGE TO BE 2x4 SPF STUD GRADE @ 16" o.c.;
- ALL OTHER NON-BEARING INTERIOR WALLS TO BE 2x4 SPF STUD GRADE @ 24" o.c. U.O.N.
- ALL WALLS TO BE 3 1/2" UNLESS OTHERWISE NOTED.
- PROVIDE SOLID BEARING TO FOUNDATION OR BEAM BELOW FOR ALL BEAMS, HEADERS & GIRDER TRUSSES. PROVIDE BLOCKING BETWEEN JOISTS AS REQUIRED.
- SEE SELECTION SHEET FOR SIZE AND STYLE OF FIREPLACE. SEE FIREPLACE ELEVATION DETAIL FOR ADDITIONAL FRAMING REQUIREMENTS, IF ANY.
- CHECK SELECTION SHEETS FOR FLOOR COVERING AT TOP AND BOTTOM OF STAIR RISERS AND ADJUST RISERS AS REQ'D.
- PROVIDE BLOCKING AT ALL HANDRAIL TERMINATION AND BRACKET LOCATIONS.
- 20-MINUTE FIRE RATED DOOR BETWEEN GARAGE AND LIVING AREA.
- EXTERIOR WALL TO BE 2x4 SPF STUD G AT 16" o.c. UNLESS OTHERWISE NOTED (10'-0" MAXIMUM UNBRACED WALL HEIGHT).
- ALL EXTERIOR WALLS AND INTERIOR BEARING WALLS, FRAMED HIGHER THAN THE STANDARD PLATE HEIGHT, SHALL BE FRAMED WITH CONTINUOUS FULL HEIGHT STUDS TO THE HIGHEST CEILING (I.E. NO INTERMEDIATE BREAKS) TO PREVENT LATERAL HINGE CONDITIONS.
- IN THE GARAGE, PROVIDE 1/2" GYP. BOARD AT ALL WALLS COMMON TO LIVING SPACE AND ALL STRUCTURAL MEMBERS SUPPORTING FLOOR/CEILING ASSEMBLY. GARAGE CEILING TO BE 1/2" SAG RESISTANT GYP. BOARD WHEN THERE ARE NO HABITABLE SPACES ABOVE, OR 5/8" TYPE X GYP. BOARD WHEN HABITABLE SPACES ARE ABOVE.
- ALL EMERGENCY ESCAPE & RESCUE OPENINGS TO BE A MAXIMUM OF 44" OFF OF FINISHED FLOOR AND HAVE MINIMUM OPENING DIMENSIONS OF 24" IN HEIGHT, 20" IN WIDTH, & HAVE A MINIMUM OPENING AREA OF 5.7 S.F.
- ALL DOORS TO BE 6'-8" TALL UNLESS OTHERWISE NOTED.
- ALL GLASS IN INTERIOR AND EXTERIOR DOORS TO BE TEMPERED (INCLUDING SIDELITES AND TRANSOMS)
- ALL LUMBER CONTACTING CONCRETE TO BE PRESSURE TREATED.
- ALL FASTENERS, HANGERS, AND OTHER CONNECTORS TO BE USED WITH PRESSURE TREATED WOOD ARE TO HAVE ZMAX COATING (OR EQUIVALENT) HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
- AT STAIR HANDRAIL, ON ONE SIDE ONLY, SHALL BE CONTINUOUS FOR THE ENTIRE LENGTH OF THE STAIRWAY, AND ENDS SHALL BE RETURNED TO A WALL OR POST. THE HANDRAIL MAY BE INTERRUPTED AT A NEWEL POST AT A TURN.
- ALL HANDRAIL GRIP PORTIONS SHALL NOT EXCEED 2-1/4" IN CROSS SECTIONAL DIMENSION.
- HANDRAILS SHALL BE INSTALLED ON ALL STAIRS WITH 4 OR MORE RISERS, HANDRAIL HEIGHTS SHALL BE A MINIMUM OF 34" AND A MAXIMUM OF 38".
- ALL STAIRS TO BE CONSTRUCTED SO AS NOT TO ALLOW A 4" SPHERE TO PASS THROUGH THE RISER.
- GUARDRAILS MUST BE A MINIMUM OF 36" HIGH. GUARDRAILS AT THE OPEN SIDES OF STAIRS MUST BE A MINIMUM OF 34" HIGH MEASURED VERTICALLY FROM THE NOSING AT THE TREADS. THE HORIZONTAL SPACING OF THE VERTICAL BALUSTERS SHALL BE 4" O.C.
- GUARDRAIL DESIGN TO RESIST A MINIMUM OF 200 LBS LATERAL FORCE

BASEMENTS:

- SLOPE CONCRETE SLAB 4" MINIMUM TOWARDS GARAGE DOOR
- EXTERIOR FLATWORK/GARAGES SHALL HAVE A MINIMUM CONCRETE STRENGTH OF 4,500 PSI
- FOOTINGS TO A MINIMUM CONCRETE STRENGTH OF 2500 PSI, UNLESS OTHERWISE NOTED- ALL FOUNDATION WALLS TO BE CAST IN PLACE CONCRETE 3000 PSI MIN. UNLESS OTHERWISE NOTED.
- BASEMENT WINDOW LOCATIONS MAY VARY FROM DRAWING DUE TO LOT CONDITIONS.
- BACKFILL ADJACENT TO FOUNDATION WALLS SHALL NOT BE PLACED UNTIL THE WALL HAS SUFFICIENT STRENGTH AND HAS BEEN ANCHORED TO THE FLOOR OR HAS BEEN SUFFICIENTLY BRACED TO PREVENT DAMAGE BY THE BACKFILL.
- ASSUMED ALLOWABLE SOIL BEARING PRESSURE: 2,000 p.s.f.
- WATERPROOF FOUNDATION WITH BITUMINOUS SPRAY.
- VERTICAL CONTROL JOINTS IN BASEMENT FOUNDATION WALLS - STANDARD LOCATION GUIDELINES:
 - 1) PLACE A CONTROL JOINT IN ALL UNBRACED WALLS OVER 30' IN LENGTH. (NOTE: "T" WALLS AND CORNERS COUNT AS A BRACE).
 - 2) WINDOWS THAT ARE LARGER THAN THE STANDARD BASEMENT WINDOW REQUIRE A CONTROL JOINT.
 - 3) CONTROL JOINTS ARE NOT REQUIRED AT EVERY WINDOW THAT IS STANDARD SIZE.
 - 4) IF THERE IS A STANDARD WINDOW LOCATED IN A WALL SEGMENT THAT REQUIRES A CONTROL JOINT, THEN THE CONTROL JOINT SHOULD BE PLACED ON THE SIDE OF THE WINDOW THAT IS ADJACENT TO THE LONG SIDE OF THE WALL. IF THERE IS MORE THAN ONE WINDOW IN A WALL THEN ONLY ONE WINDOW SHOULD HAVE A CONTROL JOINT.
 - 5) DOORS DO NOT GET CONTROL JOINTS.
 - 6) CONTROL JOINTS SHOULD NOT BE LOCATED WITHIN 3' OF A BEAM POCKET.
 - 7) CONTROL JOINTS ARE REQUIRED AT THE FIRST AND LAST STEP DOWN AT STEPPED BASEMENT FOUNDATION WALLS.
- INTERIOR FLATWORK SHALL HAVE A MINIMUM CONCRETE STRENGTH OF 3,000 PSI.
- ALL VERTICAL STEEL AND ALL STEEL IN STRUCTURAL SLABS TO BE GRADE 60. ALL HORIZONTAL STEEL IN FOUNDATION WALLS AND FOOTERS TO BE GRADE 40 STEEL.

SLAB ON GRADE:

- ALL CONCRETE SLABS ON GRADE SHALL BE THE THICKNESS AS INDICATED ON THE DETAILS OVER MINIMUM 6 MIL. POLYETHYLENE (VISQUEEN) VAPOR BARRIER. SLABS SHALL BE REINFORCED WITH 6x6 W1.4 WWF LAPPED 8" AT EDGES AND ENDS IN CONFORMANCE WITH ASTM-A 185, OR FIBERMESH REINFORCEMENT SHALL BE USED WITH A MINIMUM FIBER LENGTH OF $\frac{1}{2}$ " TO $2\frac{1}{4}$ " COMPLYING WITH ASTM C 1116. THE DOSAGE AMOUNT SHALL BE 0.75 TO 3.0 POUNDS PER CUBIC YARD IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- SLABS ON GRADE SHALL BEAR ON STRUCTURAL FILL WHICH SHALL BE CLEAN SAND FREE OF DEBRIS AND OTHER DELETERIOUS MATERIAL. STRUCTURAL FILL SHALL BE COMPACTED TO A DENSITY OF AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557). TERMITE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS. IF SOIL TREATMENT IS USED, THE TREATMENT SHALL BE DONE AFTER ALL EXCAVATION, BACKFILLING, AND COMPACTION IS COMPLETED.
- FOOTINGS MAY BEAR UPON UNDISTURBED SOIL OR UPON STRUCTURAL FILL. STRUCTURAL FILL SHALL BE COMPACTED TO A DENSITY OF AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557) FOR A DEPTH OF AT LEAST TWO FEET (2'-0") BELOW THE BOTTOM OF THE FOOTING.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
 - 3" CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
 - 2" CONCRETE EXPOSED TO EARTH AND WEATHER
 - 1 $\frac{1}{2}$ " CONCRETE NOT EXPOSED TO EARTH OR WEATHER
- SLOPE CONCRETE SLAB 4" MINIMUM TOWARDS GARAGE DOOR
- EXTERIOR FLATWORK/GARAGES SHALL HAVE A MINIMUM CONCRETE STRENGTH OF 4,500 PSI
- ASSUMED ALLOWABLE SOIL BEARING PRESSURE: 2,000 p.s.f.
- INTERIOR FLATWORK SHALL HAVE A MINIMUM CONCRETE STRENGTH OF 3,000 PSI.
- ALL STEEL IN STRUCTURAL SLABS TO BE GRADE 60. ALL HORIZONTAL STEEL IN FOUNDATION WALLS AND FOOTERS TO BE GRADE 40 STEEL.

MECHANICAL/ELECTRICAL NOTES

- ANY GAS APPLIANCES MUST BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- HOLD THE CENTERLINE OF ALL EXTERIOR LIGHT FIXTURES AT 5'-8" OFF BOTTOM OF DOOR OPENING.
- ALL KITCHEN CABINET DIMENSIONS ARE CABINET TO CABINET.
- CABINET STYLES MAY VARY FROM INTERIOR ELEVATIONS DEPENDING ON STYLE, MANUFACTURER, ETC. FOR CABINET DETAILS SEE SHOP DRAWINGS.
- CABINET SIZES MAY VARY WITH FULL-OVERLAY CABINETS.
- GROUND FAULT INTERRUPTER (GFCI) OUTLETS TO BE INSTALLED PER NEC 2017, SECT. 210.8
- PROVIDE HOSE BIBS PER DIVISION SPEC. SHEET. EXACT LOCATION TO BE FIELD DETERMINED UNLESS OTHERWISE NOTED ON THE PLANS.
- MIN. 50 C.F.M. FOR ALL EXHAUST FANS IN BATHROOMS

INSULATION DETAILS

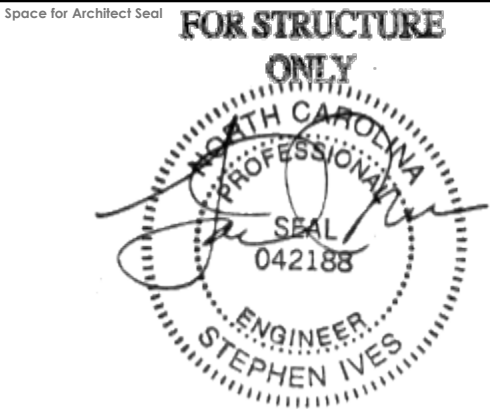
EXTERIOR STUD WALL CAVITY:	(2x4)	R-15
(2x6)	R-19	
FLOOR JOIST CAVITY AT STANDARD PERIMETER:	R-19	
FLOOR JOIST CAVITY AT CANTILEVER:	R-19	
OVER GARAGE: (OVER HORIZONTAL SPACE)	R-38 BLOWN	
(SLOPED AND VERTICAL SPACE)	R-38 BATT	

ELEVATION NOTES

- WINDOW STYLE AND MULLIONS MAY VARY FROM ELEVATION DEPENDING UPON MANUFACTURER, STYLE, PATTERN, TYPE, ETC.
- USE SECONDARY HEAT BARRIER ON ALL DIRECT VENT FIREPLACES 7' OR LESS ABOVE A WALKWAY.
- GRADE AWAY FROM FOUNDATION WALLS SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10'.
- PROVIDE TYVEK OR EQUIVALENT HOUSE WRAP BEHIND BRICK AND STONE VENEER OVER WOOD SHEATHING.
- PROVIDE BRICK WEEP HOLES AT 24" O.C. WITH BRICK VENEER AND MORTAR NET BEHIND AND THROUGH WEEP HOLES.
- PROVIDE FLASHING AND WEEP HOLES ABOVE ALL BRICK ANGLE IRONS, BELOW ALL BRICK SILLS AND ABOVE SILL PLATE SEALERS.
- EXTERIOR STEPS TO HAVE A MAXIMUM 8" RISER. WHEN VERTICAL RISE EXCEEDS 30" OR FOUR OR MORE CONTINUOUS RISERS, A HANDRAIL IS REQUIRED.

ROOF PLAN NOTES

- ALL OVERHANGS TO HAVE (2) SOFFIT VENTS PER EACH 8' SOFFIT SECTION.
- PROVIDE BAFFLES AT EXTERIOR TRUSS BEARING FOR VENTILATION.
- PROVIDE 15# FELT PAPER UNDER SHINGLES.



2025-05-21

RESIDENCE FOR:
PETTY
48 GRACEFUL ROW
SERENITY

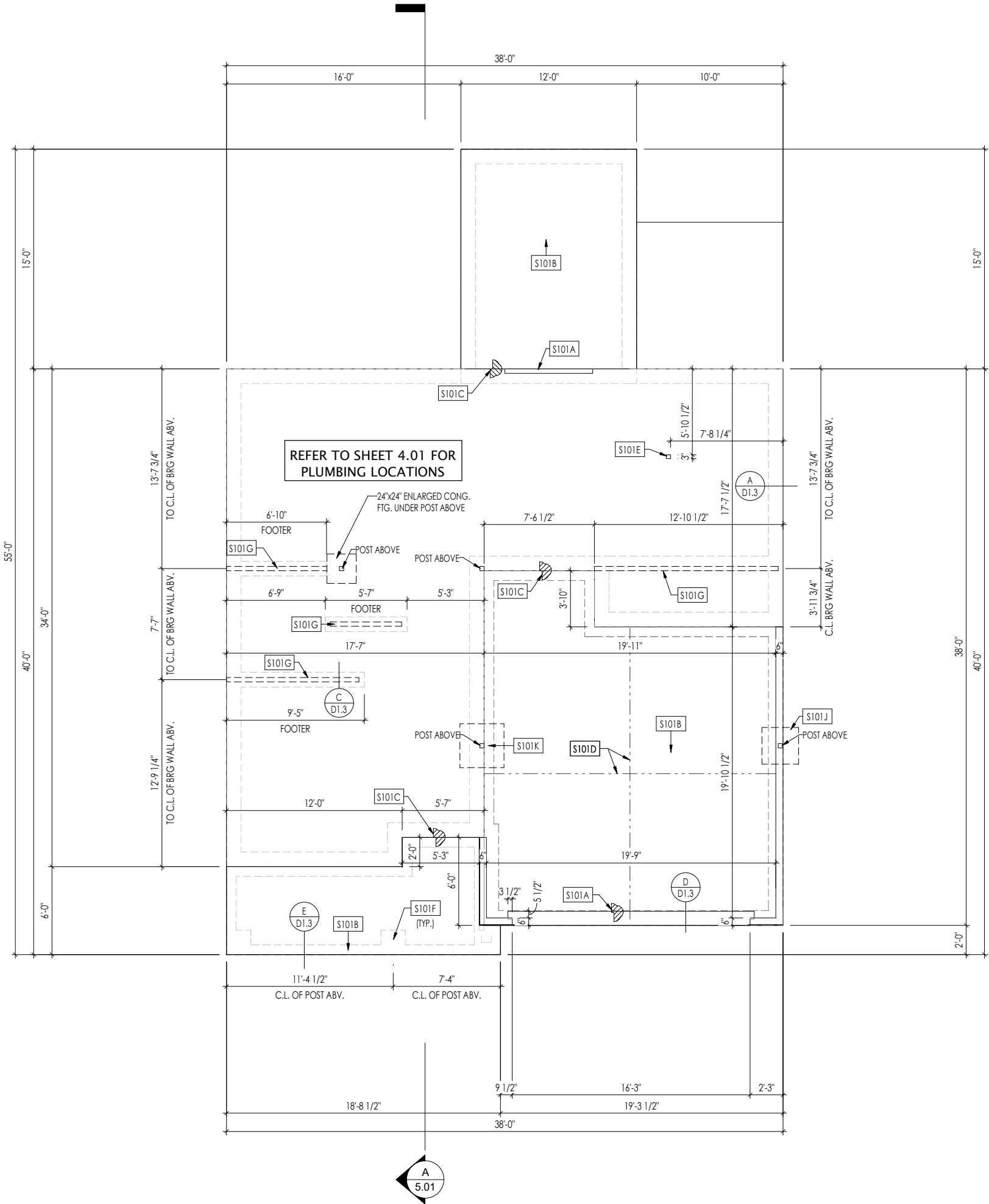
Job Number: STY5-0351-00	Drawing Date: 2/26/25	Coord Name: GREG P.	Coord Phone: 859.578.4355
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House Name: _____ Drawing Scale: 1/8" = 1'0" Contract Drawn By: _____

the GRACE

Born on Date: 11/11/22		CDs Drawn By: CLM	Plan No.:

 <p>Copyright © 2022 2022 The Drees Company. All Rights Reserved. 8521 Six Forks Road, Suite 500, Raleigh, NC 27615 Phone: [919] 844-9288</p>	Sheet Information	<div style="text-align: center;"> <h1>0N.1</h1> <p>General Notes</p> <p>Elevation "A"</p> </div>
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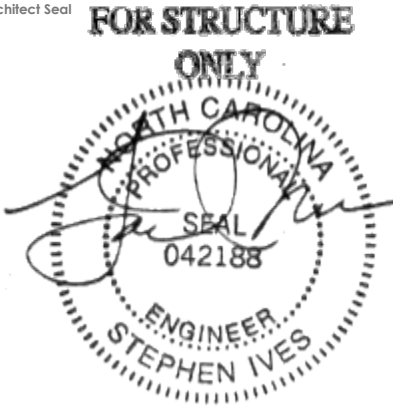
General Notes:

1. REFER TO SHEET 0N.1 FOR GENERAL NOTES.

Key Notes:

\$101A	3/4" WEATHER LIP (1-1/2" @ SLIDING GLASS DOOR)
\$101B	SLOPE SLAB 1/8" PER FOOT
\$101C	DROP SLAB 3-1/2"
\$101D	SLAB CONTROL JOINT
\$101E	PROVIDE CONDUIT FOR ELECTRIC TO KITCHEN ISLAND
\$101F	PAD FOOTING UNDER PORCH COLUMN ABOVE - SEE DETAIL F/D1.3
\$101G	8"x16" THICKENED PLAIN CONCRETE FOOTING UNDER BEARING WALL ABOVE
\$101J	30"x30"x12" ENLARGED CONCRETE FOOTING UNDER POST ABOVE
\$101K	36"x36"x12" PLAIN CONCRETE FOOTING UNDER POST ABOVE

Space for Architect Seal



2025-05-21

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48 GRACEFUL ROW
SERENITY

Job Number: STY5-0351-00	Drawing Date: 2/26/25	Coord Name: GREG P.	Coord Phone: 859.578.4355
House Name: the GRACE			Contract Drawn By: GLP
Drawing Scale: 1/8" = 1'0"			Series:
Born on Date: 11/11/22			Plan No.:
CDs Drawn By: CLM			

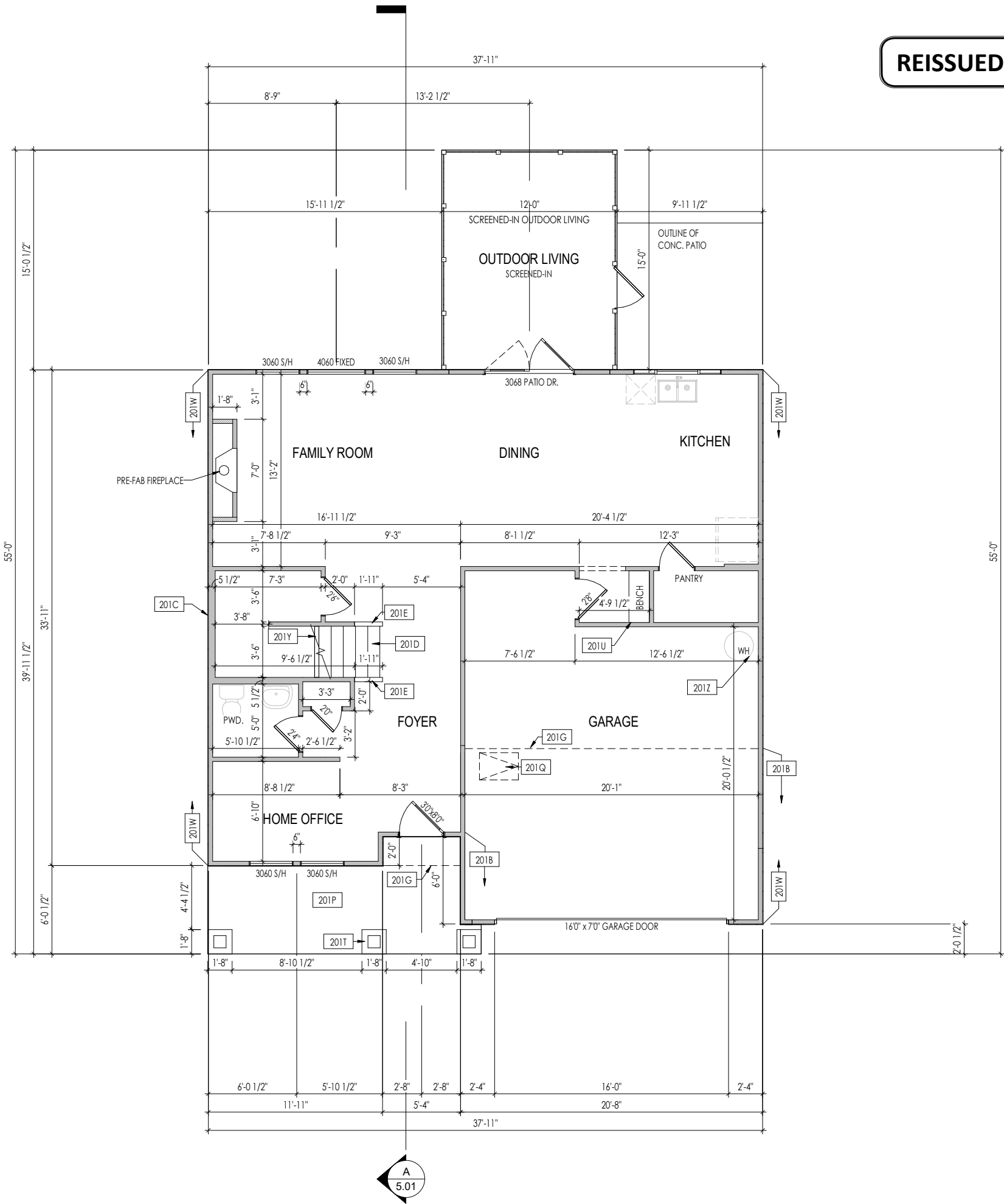


Sheet Information

1.01S
Foundation Plan (Slab)
Elevation "A"

5/21/2025 11:02 AM

REISSUED: 05/16/2025



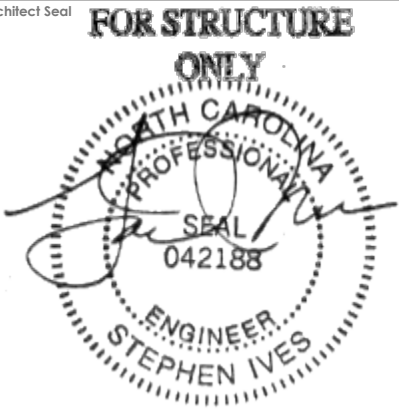
General Notes:

1. REFER TO SHEET 0N.1 FOR GENERAL NOTES.
2. ALL FIRST FLOOR CEILINGS TO BE 9'-1" ABOVE SUBFLOOR UNLESS OTHERWISE NOTED.
3. FRAME TOP OF ALL WINDOWS AT 1'-0 1/4" BELOW TOP OF PLATE UNLESS OTHERWISE NOTED.
4. ALL DROPPED, INTERIOR HEADERS (FALSE AND BEARING) ARE DROPPED 1'-0" FROM CEILING.
5. REFER TO SELECTION SHEETS FOR FLOORING MATERIAL PRIOR TO CONSTRUCTING STAIRS TO DETERMINE RISER HEIGHTS.
6. REFER TO SHEET 2.01S FOR STRUCTURAL INFORMATION.

Key Notes:

201B	FRAME GARAGE WALLS AT 8'-4 1/2" WITH 2x4 STUDS AT 16" O.C. FROM TOP OF FOUNDATION WALL
201C	2x6 BALLOON FRAMED WALL - SEE SHEET 2.01S FOR MORE INFO
201D	SEE DETAIL D/7.01 FOR STAIR FRAMING DETAILS
201E	36" HIGH WALL SLOPED WITH STAIR STRINGER
201G	OUTLINE OF SECOND FLOOR ABOVE
201P	CARPENTER TO DROP ELECTRICAL WIRE THROUGH PORCH CEILING FOR LIGHTS
201Q	22-1/2" x 32" ATTIC ACCESS
201T	SEE DETAIL E/7.01 FOR FRONT PORCH COLUMN FRAMING INFO
201U	BENCH - SEE DETAIL F/D2.2
201W	PROVIDE 1/2" FIRE RATED PLYWOOD ON SIDE ELEVATIONS
201Y	APPROX. LOCATION OF 36" HIGH WALL UNDER STAIRS (FIELD VERIFY)
201Z	18" HIGH WATER HEATER PLATFORM

Space for Architect Seal



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House Name: the GRACE			Contract Drawn By: GLP
Born on Date: 11/11/22			Series: CLM
CDs Drawn By: CLM			Plan No.: 2.01F



Sheet Information

2.01F
First Floor Framing Plan
Elevation "A"

5/16/2025 11:58:12 AM


1. REFER TO SHEET ON.1 FOR GENERAL NOTES AND SD-1 FOR ENGINEERING NOTES.

ST1A	4x4 P.T. WOOD POST WITH SIMPSON ABW44Z POST BASE AND SIMPSON BC52-2/4 CAP
ST1B	4x4 P.T. POST W/ SIMPSON BC52-2/4 CAP & BASE (PROVIDE ABW44Z BASE @ OPT. SOG FOUNDATION)
ST1C	FRAME TOP OF BEAM AT 9'-1" ABOVE FIRST FLOOR SUBFLOOR/SLAB
ST1E	OUTLINE OF SECOND FLOOR ABOVE

NOTE: 10d NAIL = 3" x 0.131" GUN NAIL

Space for Architect Seal

**FOR STRUCTURE
ONLY**



2025-05-21

2025-05-21

RESIDENCE FOR:
PETTY
48 GRACEFUL RO
SERENITY

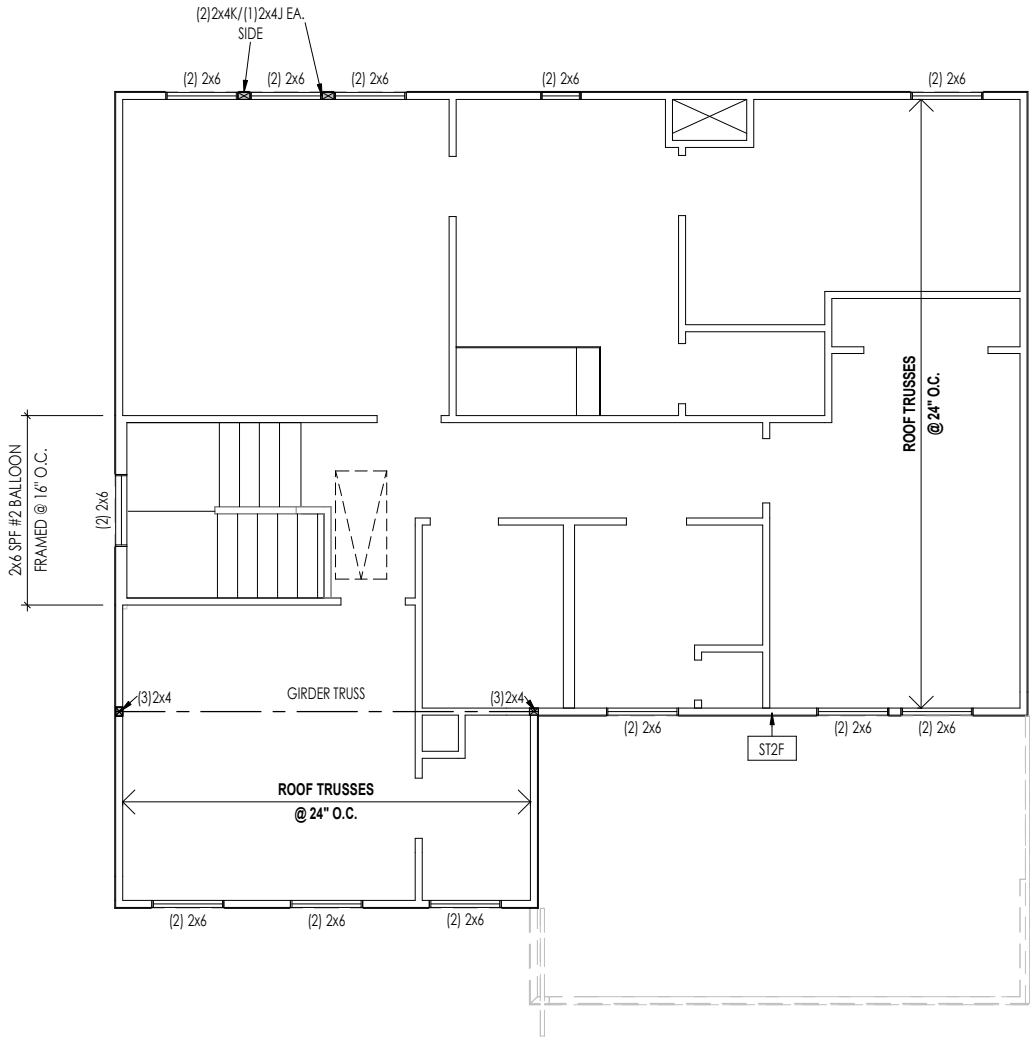
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			Contract Drawn By: GLP
			Series:
			Plan No.:
Born on Date: 11/11/22	CDs Drawn By: CLM		



Sheet Information

2.01S
First Floor Structural Plan
Elevation "A"

REISSUED: 05/16/2025



General Notes:

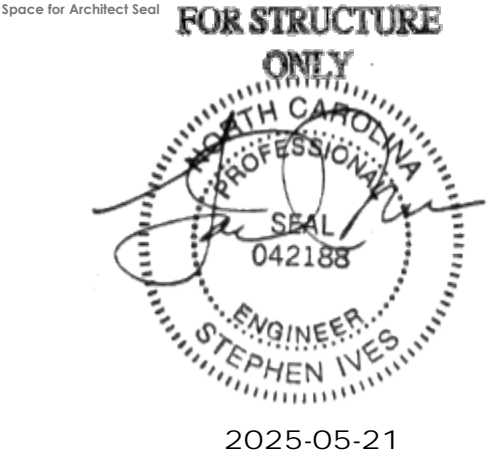
1. REFER TO SHEET ON.1 FOR GENERAL NOTES.

Key Notes:

ST2F PROVIDE CONTINUOUS FULL HEIGHT SHEATHING BEHIND LOW ROOF TRUSSES TO SOLE PLATE

CONNECTION SPECIFICATIONS (TYP. U.N.O.)

NOTE: 10d NAIL = 3" x 0.131" GUN NAIL	
JOIST TO SOLE PLATE	(3) 10d TOENAILS
SOLE PLATE TO JOIST/BLK'G.	10d NAILS @ 6" o.c.
STUD TO SOLE PLATE	(3) 10d TOENAILS
TOP OR SOLE PLATE TO STUD	(3) 10d NAILS
RIM TO TOP PLATE	10d TOENAILS @ 6" o.c.
BLK'G. BTWN. JOISTS TO TOP PL.	(3) 10d TOENAILS
RAFTER/TRUSS TO TOP PLATE	(3) 10d TOENAILS + (1) SIMPSON H2.5A
GAB. END TRUSS TO DBL. TOP PL.	10d TOENAILS @ 8" o.c.
R.T. w/ HEEL HT. 9 1/4" TO 12"	2x10 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ 10d TOENAILS @ 6" O.C.
R.T. w/ HEEL HT. 12" TO 16"	2x12 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ 10d TOENAILS @ 6" O.C.
R.T. w/ HEEL HT. UP TO 24"	LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ 8d NAILS @ 6" O.C.
R.T. w/ HEEL HT. 24" TO 48"	LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ 8d NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL
DOUBLE STUD	10d NAILS @ 24" o.c.
DOUBLE TOP PLATE	10d NAILS @ 24" o.c.
DOUBLE TOP PLATE LAP SPLICE	(10) 10d NAILS IN LAPPED AREA
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(2) 10d NAILS
WALL TO FOUNDATION	WALL SHTG. LAP w/ SILL PL. & FASTENED PER SHEAR WALL FASTENING SPEC.



RESIDENCE FOR:
PETTY
48 GRACEFUL ROW
SERENITY

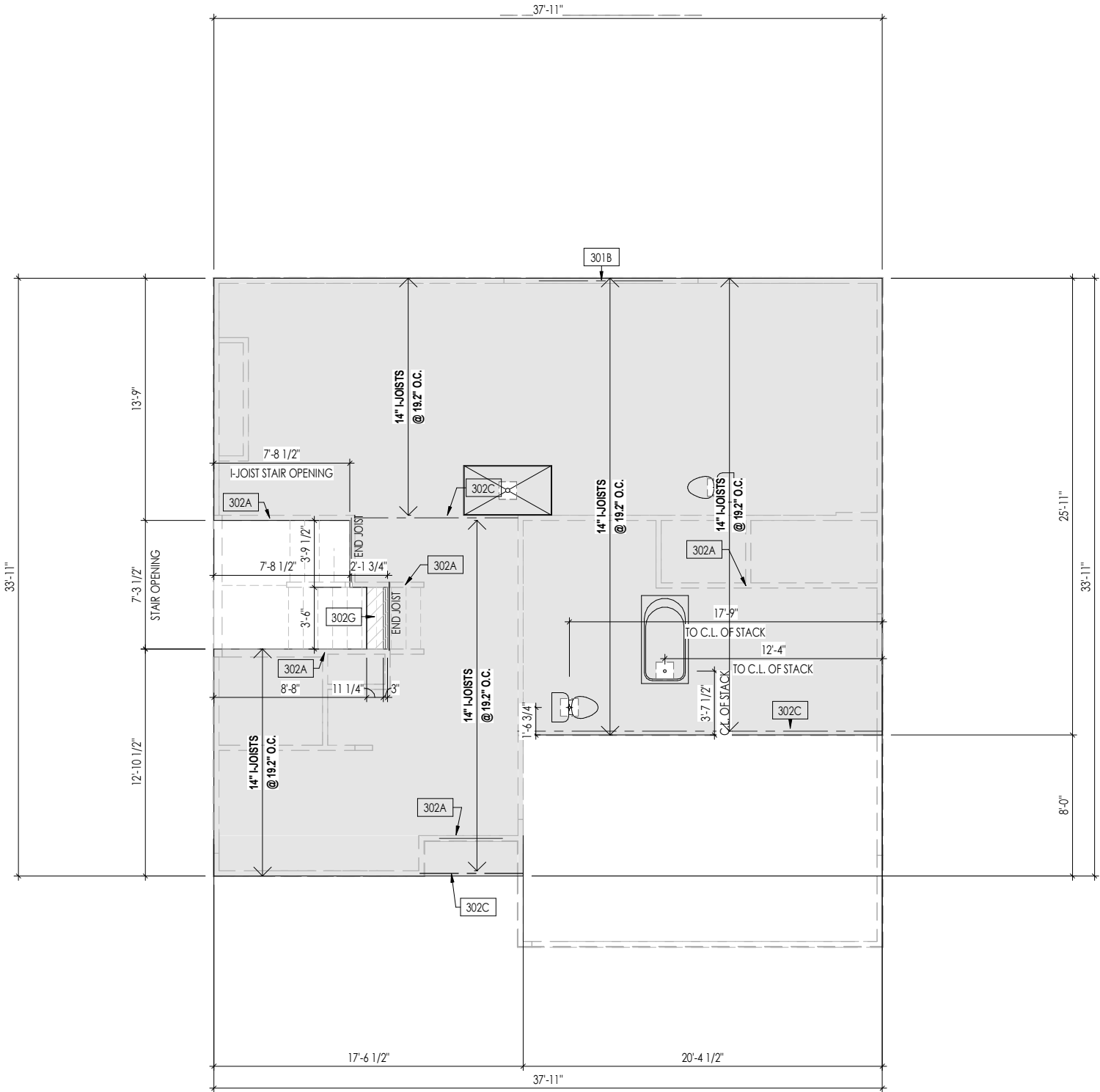
Job Number: STY5-0351-00	Drawing Date: 2/26/25	Coord Name: GREG P.	Coord Phone: 859.578.4355
House Name: the GRACE			Contract Drawn By: GLP
Drawing Scale: 1/8" = 1'0"			Series:
Born on Date: 11/11/22			Plan No.:
CDs Drawn By: CLM			

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Sheet Information

2.02S
Second Floor Structural Plan
Elevation "A"

5/16/2025 11:22:41AM



General Notes:

1. REFER TO SHEET ON.1 FOR GENERAL NOTES.
2. FLOOR JOISTS TO BE 14" TJI 210 SERIES I-JOISTS, OR EQUAL, @ 19.2" O.C., UNLESS OTHERWISE NOTED.
3. JOISTS ARE NOT TO BE PLACE DIRECTLY OVER INTERIOR PARALLEL WALL.
(TO PREVENT UNEVEN FLOOR DEFLECTION FROM OCCURRING)
4. ADD'L JOISTS MAY BE LOCATED UP TO 2' AWAY FROM THE PARTITION WALL ABOVE IN CASES WHERE MECHANICAL PENETRATIONS

Key Notes:

302A BEARING WALL BELOW
302C FLUSH BEAM - SEE SHEET 2.01S FOR MORE INFO
302G (2)2x8 (TOP FLUSH) NEXT TO 2x12 FLAT FRAME FOR STAIR HEADROOM - SEE DETAIL X/X.XX

Space for Architect Seal

FOR STRUCTURE ONLY

2025-05-21

RESIDENCE FOR:

PETTY

48 GRACEFUL ROW

SERENITY

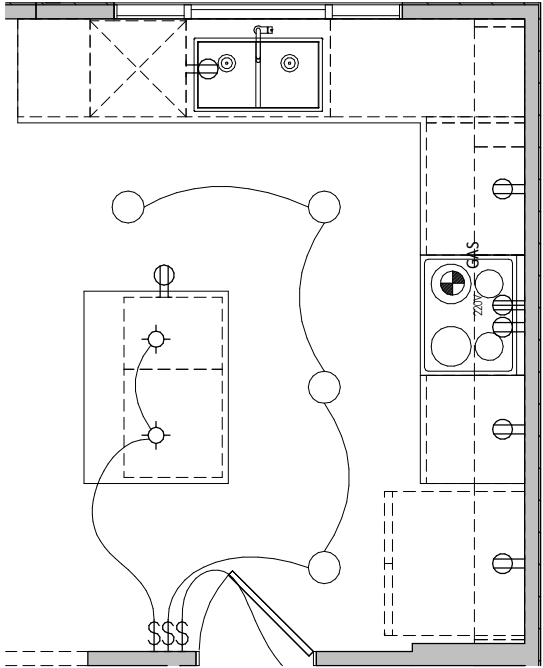
Job Number:	Drawing Date:	Coord Name:	Coord Phone:
STY5-0351-00	2/26/25	GREG P.	859.578.4355
House Name:		Drawing Scale: 1/8" = 1'0"	Contract Drawn By:
the GRACE			GLP
		Series:	
Born on Date:		CDs Drawn By:	Plan No.:
11/11/22		CLM	

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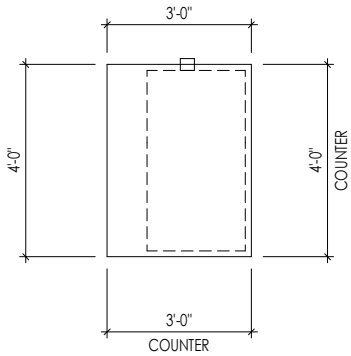
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3.02

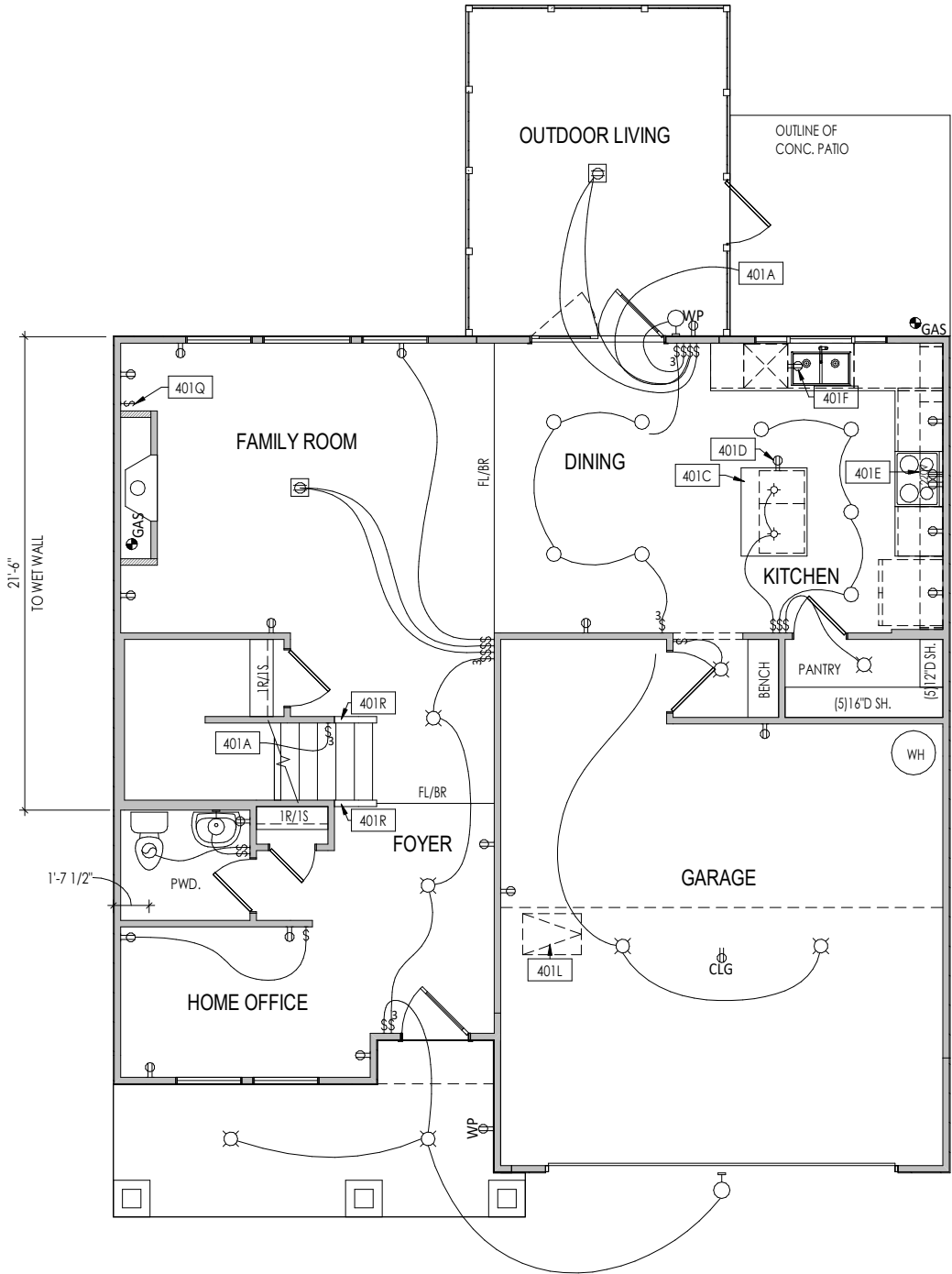
Second Floor Subfloor Plan
Elevation "A"



A
4.01
KITCHEN LIGHTING DETAIL
1/4" = 1'-0"



B
4.01
KITCHEN ISLAND DETAIL
1/4" = 1'-0"



General Notes:	
1. REFER TO SHEET ON.1 FOR GENERAL NOTES.	
Key Notes:	
401A	TO SWITCH OR LIGHT ABOVE
401C	SEE DETAIL A/4.01 FOR KITCHEN ISLAND COUNTERTOP DIMENSIONS
401D	HOLD OUTLET HIGH ON ISLAND
401E	OUTLET FOR RANGE HOOD/MICROWAVE HELD HIGH - VENT TO EXTERIOR
401F	OUTLET FOR DISHWASHER LOCATED IN SINK CABINET
401L	22-1/2" x 32" ATTIC ACCESS PANEL IN CEILING
401Q	SWITCHES FOR BLOWER UNIT WITH DIRECT VENT FIREPLACE
401R	HALF WALL W/ WOOD CAP

MECHANICAL LEGEND		
⊖ WALL OUTLET	⊗ CLG. MOUNTED LIGHT FIXT.	⊕ HOSE BIB
⊖ WEATHERPROOF GFCI OUTLET	○ SURFACE MOUNT DISC LIGHT OR RECESSED CEILING LIGHT, PER SPECS.	⊖ SHOWER HEAD
⊖ 220 VOLT OUTLET	○ WALL MOUNTED LIGHT FIXT.	⊖ GAS HOOK UP
⊖ GFCI OUTLET	⊖ DOUBLE SPOTLIGHT FIXT.	⊖ FLOOR DRAIN
⊖ FLOOR OUTLET	⊖ DIRECTIONAL CAN LIGHT	⊖ SMOKE DETECTOR
⊖ COUNTER POP-UP OUTLET	⊖ PIN LIGHT	⊖ SMOKE DETECTOR/CO DETECTOR COMBINATION
⊖ SINGLE POLE SWITCH	⊖ WALL SCONCE @ 5'-6" A.F.F.	⊖ EXHAUST FAN AND LIGHT COMBINATION
⊖ 3-WAY SWITCH	⊖ FLUORESCENT LIGHT	⊖ CLG. MTD. EXHAUST FAN
⊖ 4-WAY SWITCH	⊖ UNDER CABINET LIGHTING	⊖ DATA JACK
⊖ STAIR LIGHT		⊖ CABLE TELEVISION JACK
⊖ BLOCK, MOUNT, & SWITCH FOR FUTURE FAN/LIGHT COMBINATION (CENTER, UNLESS OTHERWISE NOTED)		

Space for Architect Seal

RESIDENCE FOR: PETTY 48 GRACEFUL ROW SERENITY			
Job Number: STY5-0351-00	Drawing Date: 2/26/25	Coord Name: GREG P.	Coord Phone: 859.578.4355
House Name:		Drawing Scale: 1/8" = 1'-0"	
the GRACE		Contract Drawn By: GLP	
		Series:	
Born on Date:		CDs Drawn By:	
11/11/22		CLM	
Plan No.:			



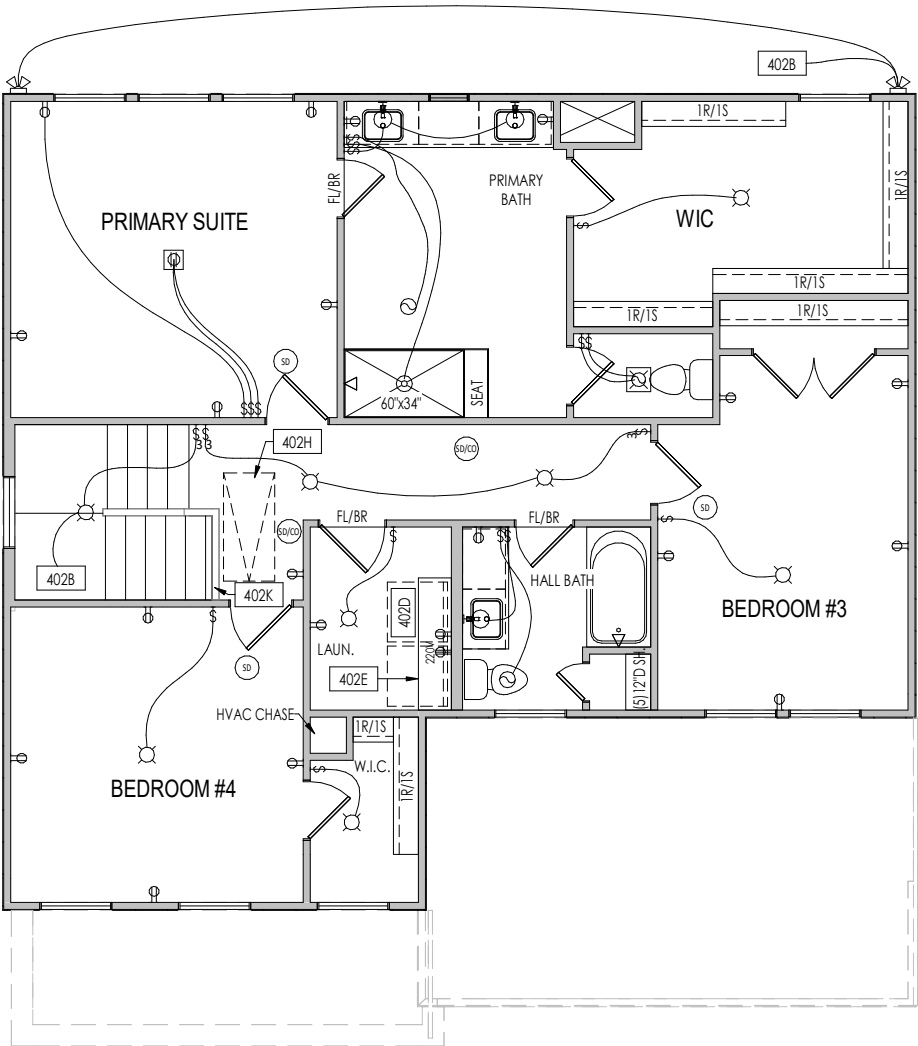
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Sheet Information

4.01

First Floor Mechanical Plan
Elevation "A"

I:\Content\15\01\EA\STR4\EGH\STY5\TY5-001-401\STY5-001-401.rvt



General Notes:

1. REFER TO SHEET ON.1 FOR GENERAL NOTES.

Key Notes:

402B	TO SWITCH OR LIGHT BELOW
402D	LOCATE WASHER TO LEFT OF DRYER
402E	16" DEEP x 5'-6" LONG SHELF HELD AT 5'-7" A.F.F.
402H	PULL DOWN ATTIC ACCESS STAIRS W/ LIGHT AND OUTLET
402K	HALF WALL WITH WOOD CAP

MECHANICAL LEGEND

⊖ WALL OUTLET	⊖ CLG. MOUNTED LIGHT FIXT.	⊖ HOSE BIB
⊖ WEATHERPROOF GFCI OUTLET	⊖ SURFACE MOUNT DISC LIGHT OR RECESSED CEILING LIGHT, PER SPECS.	⊖ SHOWER HEAD
⊖ 220 VOLT OUTLET	⊖ WALL MOUNTED LIGHT FIXT.	⊖ GAS GAS HOOK UP
⊖ GFCI OUTLET	⊖ DOUBLE SPOTLIGHT FIXT.	⊖ FLOOR DRAIN
⊖ FLOOR OUTLET	⊖ DIRECTIONAL CAN LIGHT	⊖ SMOKE DETECTOR
⊖ COUNTER POP-UP OUTLET	⊖ PIN LIGHT	⊖ SMOKE DETECTOR/CO DETECTOR COMBINATION
⊖ SINGLE POLE SWITCH	⊖ WALL SCONCE @ 5'-6" A.F.F.	⊖ EXHAUST FAN AND LIGHT COMBINATION
⊖ 3-WAY SWITCH	⊖ FLUORESCENT LIGHT	⊖ CLG. MTD. EXHAUST FAN
⊖ 4-WAY SWITCH	⊖ UNDER CABINET LIGHTING	⊖ DATA JACK
⊖ STAIR LIGHT	⊖ BLOCK, MOUNT, & SWITCH FOR FUTURE FAN/LIGHT COMBINATION (CENTER, UNLESS OTHERWISE NOTED)	⊖ CABLE TELEVISION JACK

Space for Architect Seal

RESIDENCE FOR:
PETTY
48 GRACEFUL ROW
SERENITY

Job Number: STY5-0351-00	Drawing Date: 2/26/25	Coord Name: GREG P.	Coord Phone: 859.578.4355
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House Name:	Drawing Scale: 1/8" = 1'0"	Contract Drawn By: GLP
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the GRACE

Born on Date:	11/11/22	CDs Drawn By:	CLM	Plan No.:
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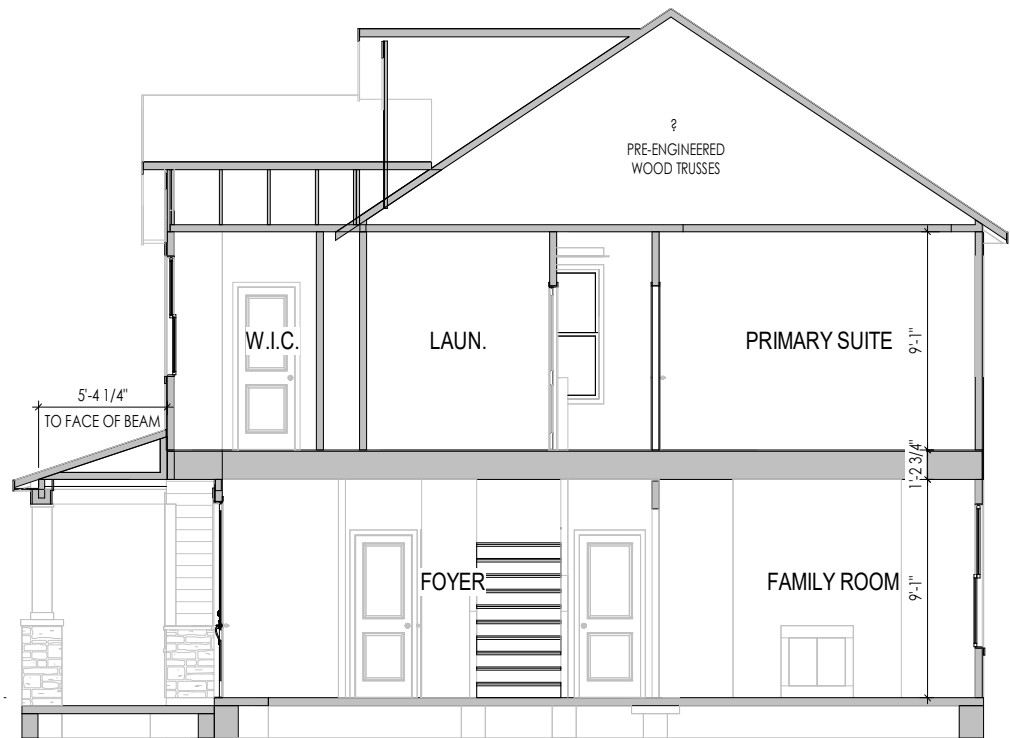
Sheet Information

4.02

Second Floor Mechanical Plan
Elevation "A"

5/16/2025 11:22:41 AM

REISSUED: 05/16/2025



A Building Section Thru Foyer
5.01 1/8" = 1'-0"

General Notes:

1. REFER TO SHEET ON.1 FOR GENERAL NOTES.

Key Notes:

Space for Architect Seal

RESIDENCE FOR:
PETTY
48 GRACEFUL ROW
SERENITY

Job Number:	Drawing Date:	Coord Name:	Coord Phone:
STY5-0351-00	2/26/25	GREG P.	859.578.4355

House Name:	Drawing Scale: 1/8" = 1'-0"	Contract Drawn By:
		GLP

the GRACE	Series:

Born on Date:	11/11/22	CDs Drawn By:	CLM	Plan No.:
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Sheet Information

5.01

Building Section
Elevation "A"

REISSUED: 05/16/2025



ELEVATION 'A'

TYPICAL TRIM:
6" FASCIA (ALL SIDES)
8" FRIEZE (FRONT ONLY, UNLESS OTHERWISE NOTED)

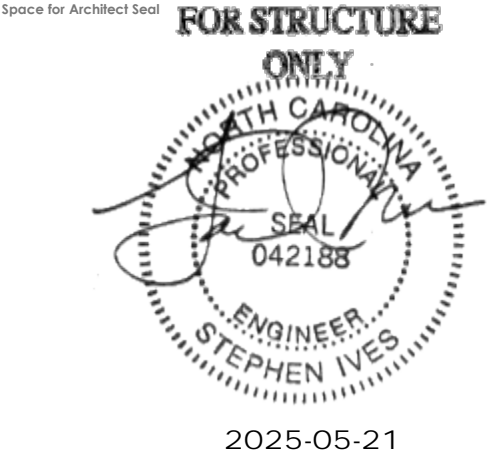
BRICK and STONE
LINTEL SCHEDULE

	SPAN	LINTEL SIZE
*BRICK	Up to 6'-0"	L3 1/2 x 3 1/2 x 1/4
	Up to 8'-3"	L5 x 3 1/2 x 5/16
	Up to 9'-3"	**PER DESIGN
	Up to 16'-3"	**PER DESIGN
*STONE	Up to 6'-0"	L4 x 3 1/2 x 1/4
	Up to 8'-3"	L5 x 3 1/2 x 5/16
	Up to 9'-3"	**PER DESIGN
	Up to 16'-3"	**PER DESIGN

All Lintels: 4" Minimum bearing required each end
*Brick is based on 40psf and Stone is based on 60psf
** Any lintels not described by the above parameters shall be specifically designed.

- General Notes:
1. REFER TO SHEET ON.1 FOR GENERAL NOTES.
 2. ROOFING MATERIAL PER SELECTIONS.
 3. CONTACT M&K ENGINEERING FOR HEADER SIZE/BRICK SUPPORT IF GRADE DROPS AND THE AMOUNT OF BRICK OVER GARAGE DOOR SHOWN ON CURRENT ELEVATION IS NO LONGER ACCURATE

Key Notes:



RESIDENCE FOR:
PETTY
48 GRACEFUL ROW
SERENITY

Job Number: STY5-0351-00	Drawing Date: 2/26/25	Coord Name: GREG P.	Coord Phone: 859.578.4355
House Name: the GRACE			Contract Drawn By: GLP
Born on Date: 11/11/22			Series:
CDs Drawn By: CLM			Plan No.:



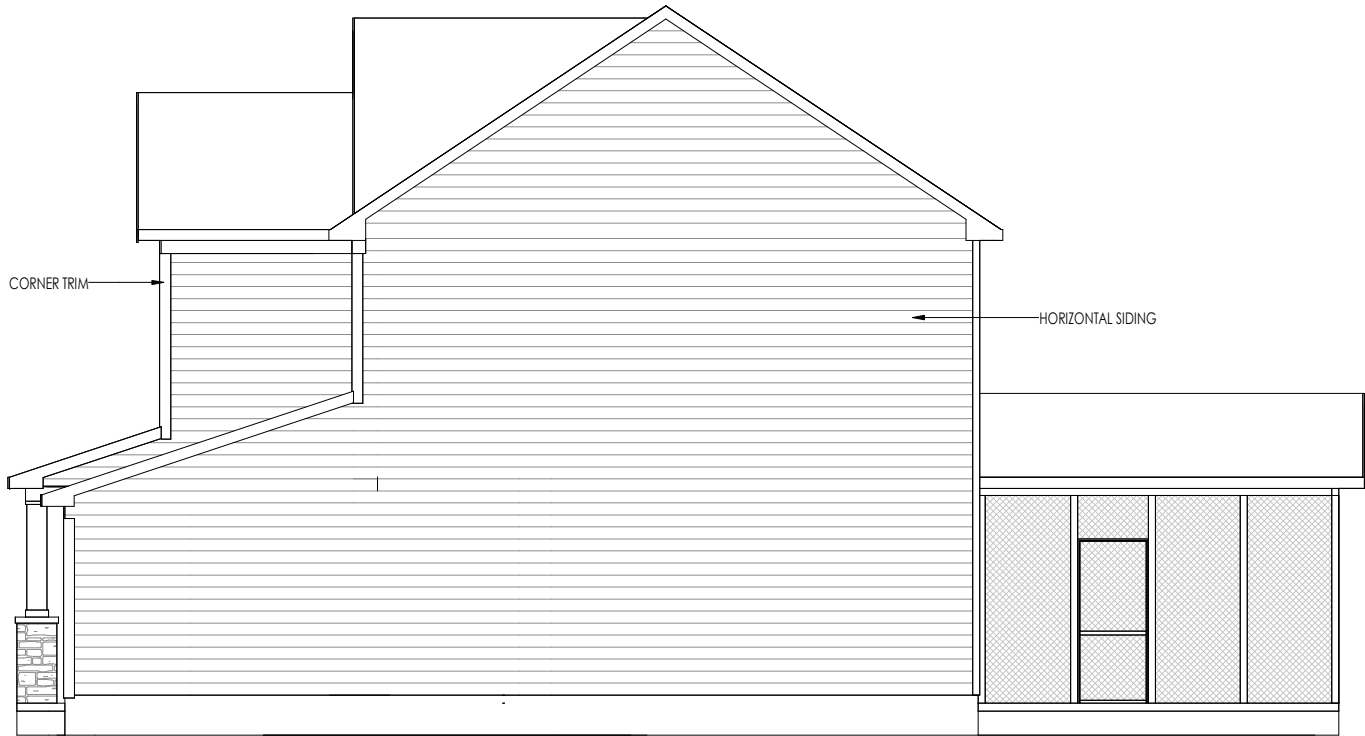
Sheet Information

6.01
Front Elevation
Elevation "A"

5/16/2025 11:24:41 AM

REISSUED: 05/16/2025

TYPICAL TRIM:
6" FASCIA (ALL SIDES)
8" FRIEZE (FRONT ONLY, UNLESS OTHERWISE NOTED)



General Notes:

1. REFER TO SHEET 00.1 FOR GENERAL NOTES.

2. ROOFING MATERIAL PER SELECTIONS.

3. REFER TO LINTEL SCHEDULE AS NEEDED ON SHEET 6.01.

Key Notes:

Space for Architect Seal

RESIDENCE FOR:

PETTY

48 GRACEFUL ROW

SERENITY

Job Number:	Drawing Date:	Coord Name:	Coord Phone:
STY5-0351-00	2/26/25	GREG P.	859.578.4355
House Name:		Drawing Scale: 1/8" = 1'0"	Contract Drawn By:
the GRACE			GLP
		Series:	
Born on Date:		CDs Drawn By:	Plan No.:
11/11/22		CLM	

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Sheet Information

6.02

Garage Side Elevation

Elevation "A"

5/16/2025 11:24:41 AM

6" FASCIA
(ALL SIDES)

8" FRIEZE
(FRONT ONLY, UNLESS OTHERWISE NOTED)

REISSUED: 05/16/2025



1. REFER TO SHEET QN.1 FOR GENERAL NOTES.
2. ROOFING MATERIAL PER SELECTIONS.
3. REFER TO LINTEL SCHEDULE AS NEEDED ON SHEET 6.01.

[illegible]

Space for Architect Seal


RESIDENCE FOR:
PETTY
48 GRACEFUL ROW
SERENITY

Job Number: STY5-0351-00	Drawing Date: 2/26/25	Coord Name: GREG P.	Coord Phone: 859.578.4355
------------------------------------	---------------------------------	-------------------------------	-------------------------------------

House Name:	Drawing Scale: 1/8" = 1'0"	Contract Drawn By:
		GLP

the GRACE Series:

Born on Date: 11/11/22		CDs Drawn By: CLM	Plan No.:

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5/16/2025 11:22:42 AM

REISSUED: 05/16/2025

TYPICAL TRIM:
6" FASCIA (ALL SIDES)
8" FRIEZE (FRONT ONLY, UNLESS OTHERWISE NOTED)



General Notes:

1. REFER TO SHEET 00.1 FOR GENERAL NOTES.
2. ROOFING MATERIAL PER SELECTIONS.
3. REFER TO LINTEL SCHEDULE AS NEEDED ON SHEET 6.01.

Key Notes:

Space for Architect Seal

RESIDENCE FOR:
PETTY
48 GRACEFUL ROW
SERENITY

Job Number: STY5-0351-00	Drawing Date: 2/26/25	Coord Name: GREG P.	Coord Phone: 859.578.4355
House Name:			Contract Drawn By: GLP
the GRACE			Series:
			Plan No.:
Born on Date: 11/11/22	CDs Drawn By: CLM		



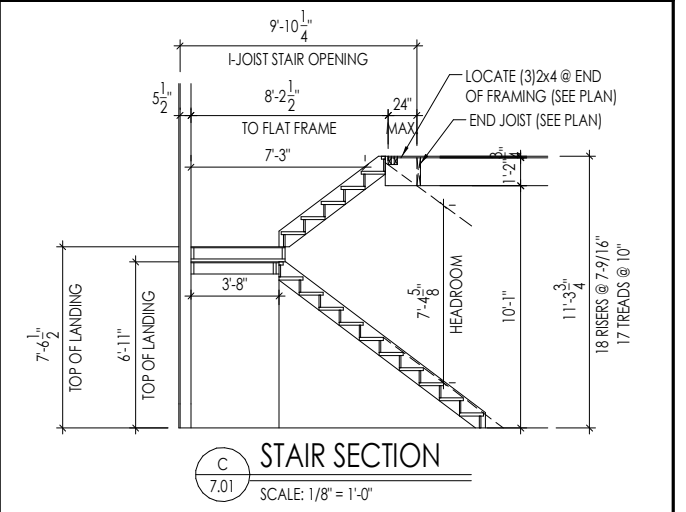
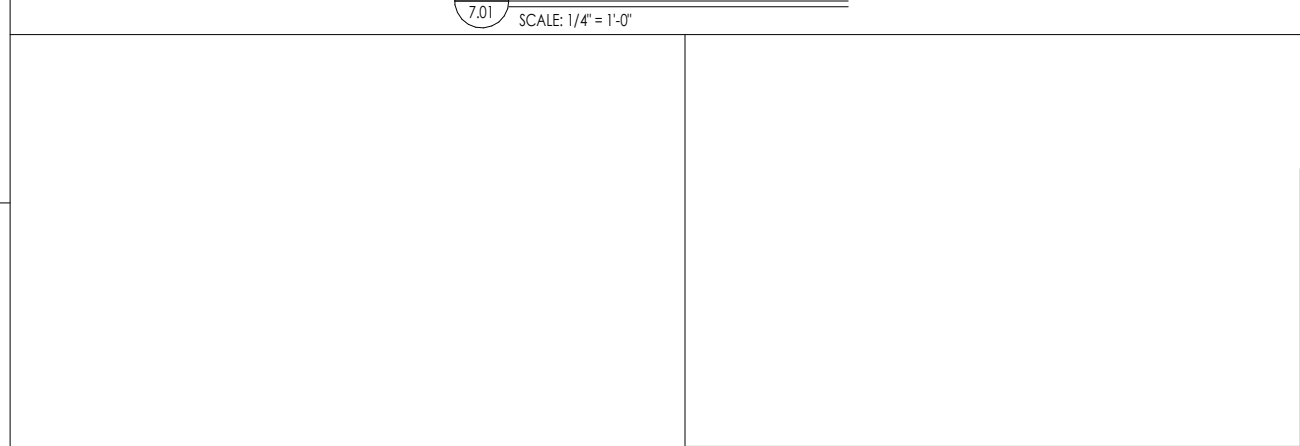
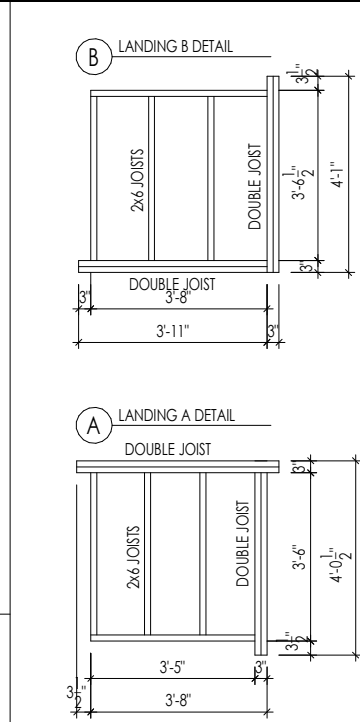
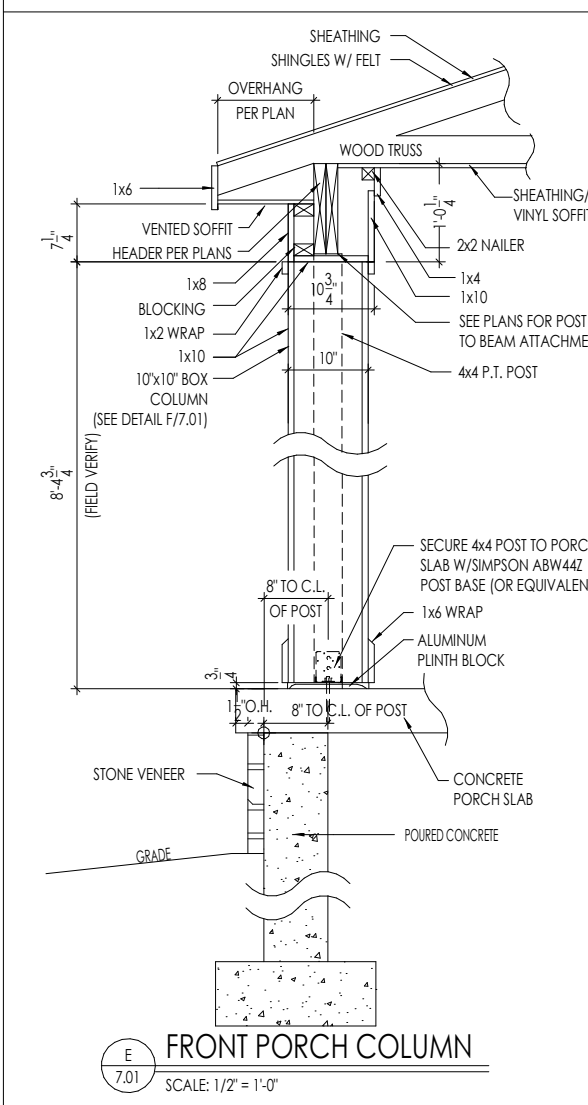
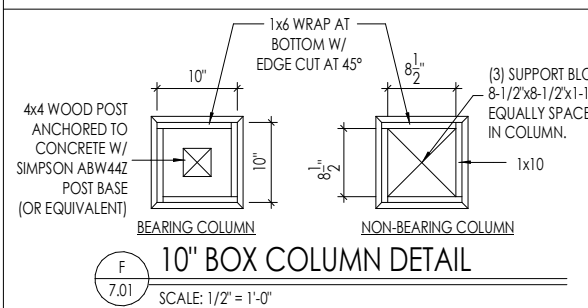
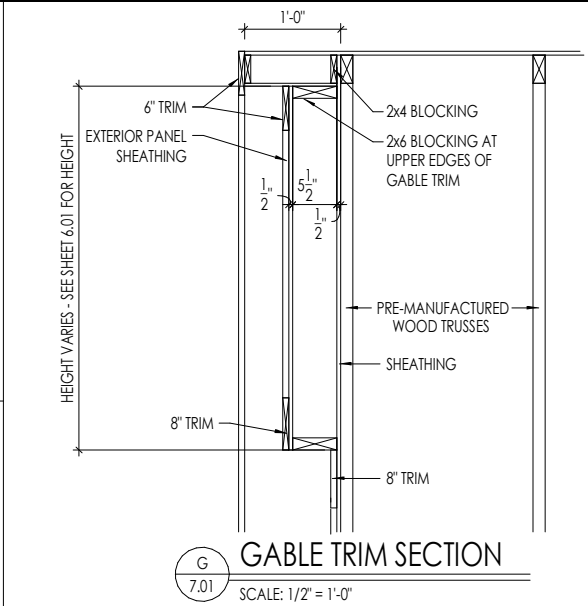
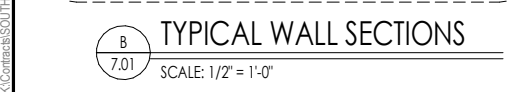
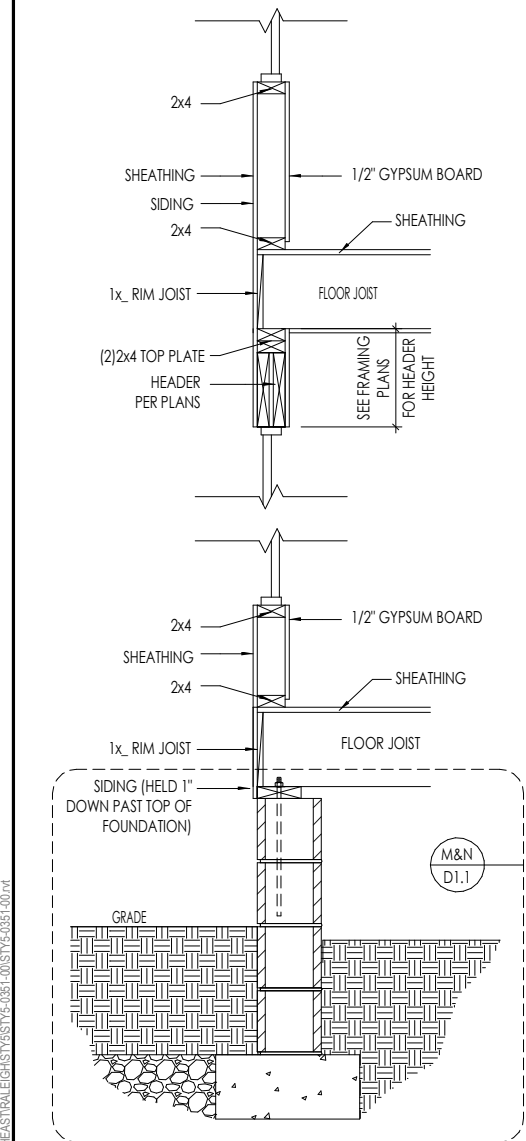
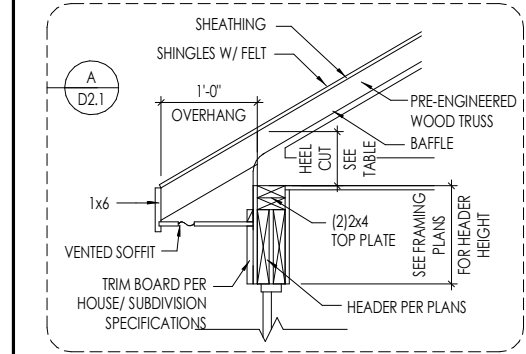
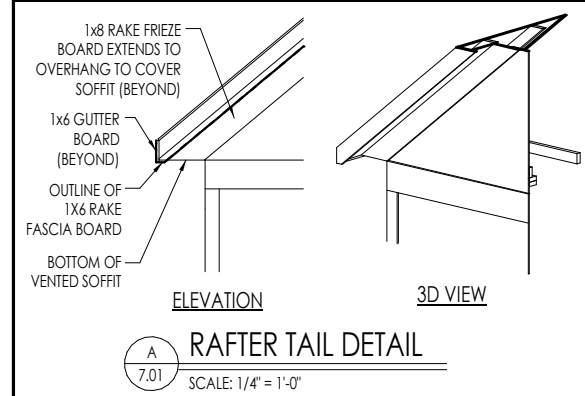
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Sheet Information

6.04
Side Elevation
Elevation "A"

5/16/2025 11:24:41 AM

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Space for Architect Seal

FOR STRUCTURE ONLY

NORTH CAROLINA PROFESSIONAL SEAL

SEAL

042188

ENGINEER

STEPHEN IVES

2025-05-21

RESIDENCE FOR:

PETTY

48 GRACEFUL ROW

SERENITY

Job Number:	Drawing Date:	Coord Name:	Coord Phone:
STY5-0351-00	2/26/25	GREG P.	859.578.4355
House Name:		Drawing Scale: 1/8" = 1'-0"	
the GRACE		Contract Drawn By:	
		GLP	
Born on Date:		CDs Drawn By:	CLM
11/11/22			

Drees HOMES SM

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Sheet Information

7.01

House Specific Details

Elevation "A"

CONNECTION SPECIFICATIONS (TYP. U.N.O.)

NOTE: 10d NAIL = 3" x 0.131" GUN NAIL	
JOIST TO SOLE PLATE	(3)10d TOENAILS
SOLE PLATE TO JOIST/BLK'G.	10d NAILS @ 6" O.C.
STUD TO SOLE PLATE	(3)10d TOENAILS
TOP OR SOLE PLATE TO STUD	(3)10d NAILS
RIM TO TOP PLATE	10d TOENAILS @ 6" O.C.
BLK'G. BTWN. JOISTS TO TOP PL.	(3)10d TOENAILS
RAFTER/TRUSS TO TOP PLATE	(3)10d TOENAILS + (1) SIMPSON H2.5A
GAB. END TRUSS TO DBL. TOP PL.	10d TOENAILS @ 8" O.C.
R.T. w/ HEEL HT. 9 1/4" TO 12"	2x10 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ 10d TOENAILS @ 6" O.C.
R.T. w/ HEEL HT. 12" TO 16"	2x12 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ 10d TOENAILS @ 6" O.C.
R.T. w/ HEEL HT. UP TO 24"	LAP WALL SHTG. w/ DBL. TOP PL. # INSTALL ON TRUSS VERT. - FASTEN W/ 8d NAILS @ 6" O.C.
R.T. w/ HEEL HT. 24" TO 48"	LAP WALL SHTG. w/ DBL. TOP PL. # INSTALL ON TRUSS VERT. - FASTEN W/ 8d NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL
DOUBLE STUD	10d NAILS @ 24" O.C.
DOUBLE TOP PLATE	10d NAILS @ 24" O.C.
DOUBLE TOP PLATE LAP SPLICE	(10)10d NAILS IN LAPPED AREA
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(2)10d NAILS
WALL TO FOUNDATION	WALL SHTG. LAP w/ SILL PL. & FASTENED PER SHEAR WALL FASTENING SPEC.

GARAGE SLAB

4" CONC. SLAB w/ 6x6-WI.4xWI.4
WMF ON 6 MIL VAPOR BARRIER
ON 4" MIN. GRANULAR FILL ON 95%
COMPACTED FILL/VIRGIN SOIL

PORCH SLAB

4" CONC. SLAB w/ 6x6-WI.4xWI.4 WMF ON
95% COMPACTED FILL/VIRGIN SOIL

BASEMENT SLAB

4" CONC. SLAB ON 6 MIL VAPOR BARRIER
ON 4" MIN. GRANULAR FILL ON
95% COMPACTED FILL/VIRGIN SOIL

SLAB ON GRADE

4" CONC. SLAB w/ 6x6-WI.4xWI.4 WMF ON 6
MIL VAPOR BARRIER ON 4" MIN. GRANULAR
FILL ON 95% COMPACTED FILL/VIRGIN SOIL

VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L4"x8"x1/4"
6'-0"	3 FT. MAX	L4"x8"x1/4"
	16 FT. MAX	L5"x8"x3/8"
8'-0"	6 FT. MAX	L5"x8"x3/8"
9'-6"	3 FT. MAX	L5"x8"x3/8"
12'-0"	2 FT. MAX	L5"x8"x3/8"

ALL LINTELS:
 - SHALL SUPPORT 2 3/4" - 3 1/2" VENEER w/ 40 psf MAXIMUM HEIGHT.
 - 10" SHALL HAVE 4" MIN. BEARING
 - 18" SHALL HAVE 8" MIN. BEARING
 - 12" SHALL NOT BE FASTENED BACK TO HEADER.
 - 12" SHALL BE FASTENED BACK TO WOOD HEADER IN WALL @ 8" O.C. w/ 3/4" DIA. x 3 1/2" LONG LAG SCREWS IN 2" LONG VERTICALLY SLOTTED HOLES.
 - MAX. VENEER HT. APPLIES TO ANY PORTION OF BRICK OVER THE OPENING.
 - ALL LINTELS SHALL BE LONG LSS VERTICAL.
 - ALL LINTELS SHALL BE MADE OF 36 KSI STEEL.
 - WHEN SUPPORTING VENEER < 3" WIDE THE EXTERIOR TOE OF THE HORIZONTAL LSS
 MAY BE CUT IN THE FIELD TO BE 3/4" WIDE OVER THE BEARING LENGTH ONLY.
 THIS IS TO ALLOW FOR VERTICAL JOINT FINISHING.
 - SEE STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT ENCOMPASSED BY THE
 ABOVE PARAMETERS.

LEGEND

- INTERIOR BEARING WALL
- BEARING WALL ABOVE
- BEAM / HEADER
- EXTENT OF OVERFRAMING
- METAL HANGER
- INDICATES EXTENT OF INT. OSB
SHEARWALL, BLOCKED PANEL EDGES,
AND/OR 3" O.C. EDGE NAILING
- INDICATES HOLDOWN
- INDICATES POST ABOVE (P.A.) PROVIDE
SOLID BLOCKING UNDER POST OR JAMB
ABOVE.

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED
JOISTS SHALL BE DESIGNED TO MEET THE
DEFLECTION CRITERIA BELOW, UNLESS NOTED
OTHERWISE ON PLAN. MULHERN & KULP CANNOT BE
HELD RESPONSIBLE FOR ANY STRUCTURAL ISSUES
RELATED TO ANY BUILDING COMPONENT IF
COMPONENT SHOP DRAWINGS ARE NOT SUBMITTED
TO MKK FOR REVIEW PRIOR TO FABRICATION,
DELIVERY, OR INSTALLATION.

TRUSSES/JOISTS SHALL BE DESIGNED SO THAT
DIFFERENTIAL DEFLECTION BETWEEN ADJACENT
PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUSH
BEAMS DO NOT EXCEED THE FOLLOWING:

- ROOF TRUSSES:
1/4" DEAD LOAD
- FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:
1/8" DEAD LOAD

ABSOLUTE DEAD LOAD DEFLECTION OF FLOOR
TRUSSES/ATTIC TRUSSES WHEN ADJACENT TO FLOOR
FRAMING BY OTHERS SHALL BE LIMITED TO 3/16". (NOT
DIFFERENTIAL DEFLECTION)

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA RESIDENTIAL CODE.
- FOOTING DESIGN - 1500 PSF NET ALLOWABLE SOIL BEARING
PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2x SILL PLATES TO CONC FND WITH A MINIMUM OF 2
ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING:
 - 1/2" DIA. ANCHOR BOLTS @ 6'-0" O.C., 1" MIN. EMBEDMENT
 - SIMPSON MAB STRAPS @ 32" O.C.
 - SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C.
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT w/ PERIMETER
FOUNDATION SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF
HARDWARE & FASTENERS IN CONTACT w/ PRESERVATIVE-TREATED
WOOD. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- FOUNDATION WALLS & FOOTINGS SHALL BE PLAIN CONCRETE, U.N.O.
- CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN
THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:
 f'c = 4,000 psi: FOUNDATION WALLS
 3,000 psi: FOOTINGS & INTERIOR SLABS ON GRADE
 3,500 psi: GARAGE & EXTERIOR SLABS ON GRADE
 fy = 60,000 psi

- BASEMENT FOUNDATION WALL DESIGN BASED ON:
 - 8' OR 9' HEIGHT (AS NOTED ON PLANS)
 - TALLER WALLS MUST BE ENGINEERED.
 - NOMINAL WIDTH (8' FOR 8' WALL, 10' FOR 10' WALL).
- BASEMENT WALL DESIGN IS BASED ON 30 OR 45 PCF BACKFILL
SOIL TYPE CLASSIFICATIONS:
 30 PCF TYPE (GM, GP, SM, SP)
 45 PCF TYPE (GM, GC, SM, SM-SC, ML)
 IMPORTANT - IF 60 PCF SOIL TYPE (SC, ML-CL, OR CL) IS
 UTILIZED FOR BACKFILL, CONTACT MULHERN & KULP FOR
 FURTHER EVALUATION OF FOUNDATION DESIGN.
- BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY
ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN
CONCRETE BSMT. FND. WALL WITH 2" CLEAR. REINFORCEMENT
SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS.
 - FOR OPENINGS UP TO 36", PROVIDE MINIMUM 10" CONCRETE
DEPTH OVER OPENING OR (3)2x10 W/2x6 JACK STUDS, U.N.O.
 - LARGER OPENINGS SHALL BE PER PLAN.

- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS
THAN 5% OR MORE THAN 1% AIR ENTRAINMENT.
- ALL FOOTINGS SHALL BEAR BELOW FROST LINE (TYP.) OR 12" MIN IN
REGIONS WHERE CODE FROST DEPTH IS NOT APPLICABLE. CONSULT
SOILS REPORT OR BUILDING DEPT. FOR MINIMUM DEPTH BELOW
GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR
95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB
EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY
TO DEVELOP.
 - JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR
15'-0" O.C. (MAXIMUM)
 - JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS
POSSIBLE (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIO
 - CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL
SLABS
- TYPICAL REINFORCEMENT DETAILS: PROVIDE 3" MIN. CLEAR
COVER WHERE CAST AGAINST EARTH, 1 1/2" MIN. CLEAR COVER
AGAINST FORMS. LAP ALL REBAR 48 BAR DIAMETERS MIN. (24"
FOR #4 BARS) & BEND BARS AND LAP AT CORNERS. PROVIDE 6"
HOOK INTO SUPPORTING FOOTINGS WHEN FOOTINGS INTERSECT.
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.

LATERAL/WALL BRACING & WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST
LATERAL FORCES RESULTING FROM:
120 MPH WIND IN 2018 NC SRC
 (120 MPH WIND SPEED IN ASCE 7-10
WIND MAP, PER IRC R301.2.1.1)
EXP. B & SEISMIC CAT. A/B.

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD:
 FASTEN SHEATHING w/ 2 3/8"x0.113 NAILS @ 6" O.C. AT
EDGES & @ 12" O.C. IN THE PANEL FIELD. (TYP. U.N.O.)
- ALL SHEATHING PANELS SHALL BE ORIENTED
VERTICALLY (LONG DIRECTION PARALLEL TO STUDS)
AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR -
2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO
SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE
FASTENING.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED
AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1 3/4" 16 GA STAPLES
(1/6" GROWN) @ 3" O.C. AT EDGES & @ 6" O.C. IN FIELD.

3" O.C. EDGE NAILING

- AT DESIGNATED AREAS - FASTEN PANEL EDGES OF
WOOD STRUCTURAL WALL SHEATHING TO FRAMING w/
2 3/8" x 0.113" NAILS @ 3" O.C. AND 12" O.C. IN THE
PANEL FIELD. NO STAPLE ALTERNATIVE AVAILABLE
AT THIS SPEC. ALL SHEATHING PANELS SHALL BE
ORIENTED VERTICALLY (LONG DIRECTION PARALLEL
TO STUD) AND INSTALLED FULL HEIGHT OF SHEAR
WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE
PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES
AND 3" O.C. EDGE FASTENING.

NOTES

- SEE CONNECTION SPECIFICATIONS CHART FOR
STANDARD SHEAR TRANSFER DETAILING. IF
ADDITIONAL CAPACITY IS REQUIRED BY DESIGN,
IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C. MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY
APPLIED TO STUD FRAMING.
- PRE-MANUFACTURED PANELIZED WALLS:
FASTEN TOGETHER END STUDS OF WALL PANELS
SHEATHED w/ OSB OR PLYWOOD w/ 10d NAILS
@ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB
SHEARWALL, BLOCKED PANEL EDGES,
AND/OR 3" O.C. EDGE NAILING

INDICATES HOLDOWN

INDICATES POST ABOVE (P.A.) PROVIDE
SOLID BLOCKING UNDER POST OR JAMB
ABOVE.

MKK STD. - SEPT. 2018

GENERAL STRUCTURAL NOTES

FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR
EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES
STONE/MARBLE OR WET BED CONSTRUCTED FLOORS - CONTACT
MKK FOR EXCLUDED FLOOR DESIGNS)
- PER THE GUIDELINES OF THE TILE COUNCIL OF NORTH AMERICA
(TCNA HANDBOOK), IT SHALL BE THE FLOOR FINISH INSTALLER'S
RESPONSIBILITY TO VERIFY THAT THE FINISHES TO BE INSTALLED
MATCH THE DESIGN CRITERIA NOTED ABOVE (UNDER "DESIGN
LOADS").
- AT I-JOIST FLOORS, PROVIDE 1 1/8" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR'
24" O.C. EXPOSURE 1 (OR APPROVED EQUAL) WITH TONGUE AND
GROOVE EDGES. FASTEN TO FRAMING MEMBERS w/ GLUE AND
- 2 1/2" x 0.131" NAILS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.
- 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. FIELD.
- 2 3/8" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD.

ROOF FRAMING

- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16
EXPOSURE 1 (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
- w/ 2 1/2" x 0.131" NAILS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.
- w/ 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. FIELD.
- w/ 2 3/8" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. FIELD.
- WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIPS FASTEN ROOF
SHEATHING FIELDS PER EDGE NAILING SPEC.
- FASTEN EACH ROOF TRUSS TO TOP PLATE w/ SIMPSON H2.5A CLIP
(OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H2.5A
CLIPS AT 2-PLY GIRDER TRUSSES, (3) H2.5A CLIPS AT 3-PLY
GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS.
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI 1
"GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING
OF METAL PLATE CONNECTED WOOD TRUSSES."
- SUPPORT SHORT SPAN ROOF TRUSSES w/2x4 LEDGER FASTENED TO
FRAMING w/ (2) 3" x 0.120" NAILS @ 16" O.C. (UP TO 7' SPAN).

MKK STD. - MAR 2018



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

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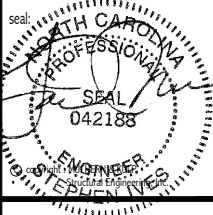
GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NORTH CAROLINA RESIDENTIAL CODE.
- WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN
SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.
- DESIGN LOADS:

ROOF	LIVE = 20 PSF (18 PSF REDUCED) DEAD = 7 PSF T.C., 10 PSF B.C. LOAD DURATION FACTOR = 1.15
FLOOR	LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (I-JOISTS & SOLID SAWN) ADD'L 10 PSF @ CERAMIC TILE IN KITCHEN, BATHS, SUNROOM, & LAUND.
SOIL	1,500 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

GENERAL FRAMING

- ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD
CONNECTIONS TABLE (IRC TABLE R602.3.11) OR ON PLANS. ALL
NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR
CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER
MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY.
NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL
FRAMING GUN NAILS.
- EXT. & INT. BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON
PLANS) @ 16" O.C. SFF "STUD" GRADE LUMBER, OR BETTER, U.N.O.
 • WALLS OVER 10' TALL SHALL BE PER PLAN.
- ALL INTERIOR BEARING WALLS ARE ASSUMED TO BE SHEATHED w/
GYP WALL BOARD (ONE SIDE MIN) OR PROVIDE MID HT. BLOCKING.
- ALL 2x8, 2x10, & 2x12 HEADERS, BEAMS & OTHER STRUCTURAL
MEMBERS SHALL BE S.Y.P. #2 LUMBER, OR BETTER.
- ALL 2x6 HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL
BE SFF "STUD" GRADE LUMBER, OR BETTER.
- SUPPORT ALL HEADERS/ BEAMS w/ (1)2x JACK STUD & (1)2x KING
STUD, MINIMUM.
 - THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE
NUMBER OF JACK STUDS REQUIRED, U.N.O..
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED
WITH 2x "STUD" GRADE MEMBERS SPACED @ 24" O.C. (MAX, U.N.O.)
 • HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
 (1)2x4/6 FLAT @ OPENINGS UP TO 4'; (2)2x4/6 FLAT UP TO 8'.
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:
 - LSL - Fb=2325 psi; Fv=310 psi; E=1.55x10⁶ psi
 - LVL - Fb=2600 psi; Fv=285 psi; E=2.0x10⁶ psi
- ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING:
 - LVL - Fb=2400 psi; FcII=2500 psi; E=1.8x10⁶ psi
- FOR 2 & 3 PLY BEAMS OF EQUAL 1 3/4" MAX. WIDTH, FASTEN PLIES
TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS
1/4"x3/8" SIMPSON SDS SCREWS (OR 3/8" TRUSSELOK SCREWS) @ 16"
O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR
GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY
CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE.
SOLID 3 1/2" OR 5 1/4" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF
NAILS FOR 2x6 & 2x8 MEMBERS.
- FOR 4 PLY BEAMS OF EQUAL 1 3/4" MAX. WIDTH, FASTEN PLIES
TOGETHER WITH 3 ROWS OF 1/4"x6" SIMPSON SDS SCREWS (OR 6 3/4"
TRUSSELOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR
BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH
FACES (ONE SIDE ONLY FOR TRUSSELOK SCREWS). LOCATE TOP AND
BOTTOM SCREWS 2" FROM EDGE. A SOLID 7" BEAM IS ACCEPTABLE.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS
CONTINUOUS TO FND/BEARING. BLOCKING TO MATCH POST ABOVE.
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH
P.A.F.'s (HILLT' XU PINS OR EQUAL) @ 16" O.C. STAGGERED,
OR 1/2" DIA. BOLTS @ 48" O.C. STAGGERED.
- STEEL PIPE COLUMN "ASD CAPACITIES" SHALL MEET OR EXCEED
THE LOADS PROVIDED AT EACH STEEL PIPE COLUMN LOCATION ON
PLAN. COLUMNS ARE TO BE INSTALLED PER THE MANUFACTURER'S
REQUIREMENT THAT ACHIEVES THE RATED CAPACITY USED,
INCLUDING BUT NOT LIMITED TO POSITIVE CONNECTIONS AT THE TOP
AND BOTTOM OF THE COLUMN. TWO COLUMNS MAY BE USED UNDER
CONTINUOUS BEAMS TO ACHIEVE THE FULL PLAN SPECIFIED
REQUIRED CAPACITY IF INSTALLED CENTERED ON THE EXISTING
FOOTING/ PLAN SPECIFIED SINGLE COLUMN LOCATION.



DREES HOMES

Mulhern+Kulp project number:

project mgr: BSM
drawn by: SMM
issue date: 12-16-22

REVISIONS:
 date: initial:
 05/03/2024 DML
 08/08/2024 DML
 08/08/2024 DML

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RESIDENTIAL STRUCTURAL ENGINEERING



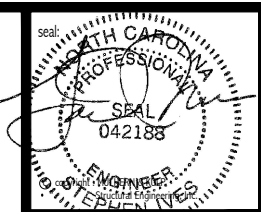
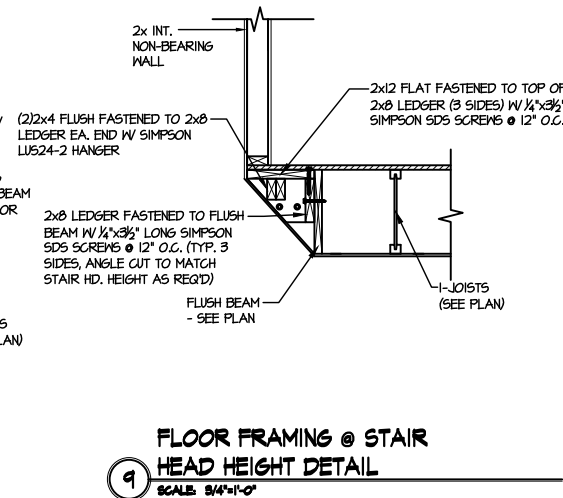
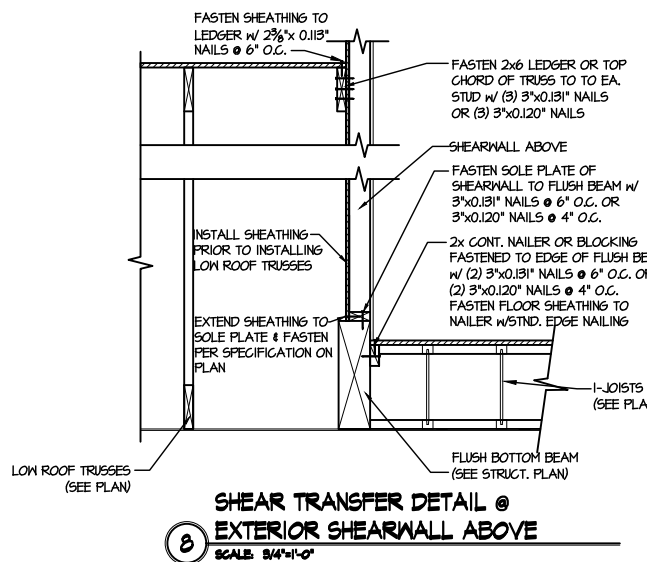
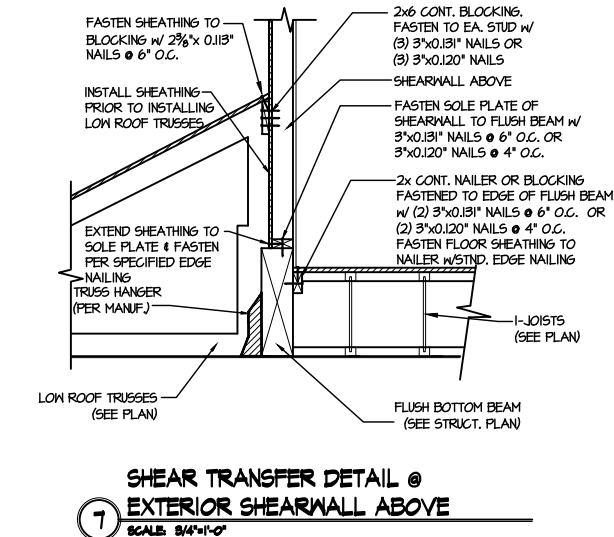
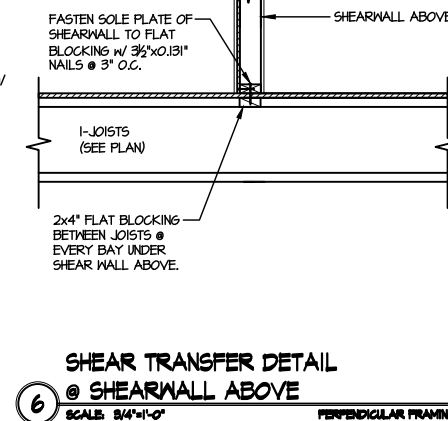
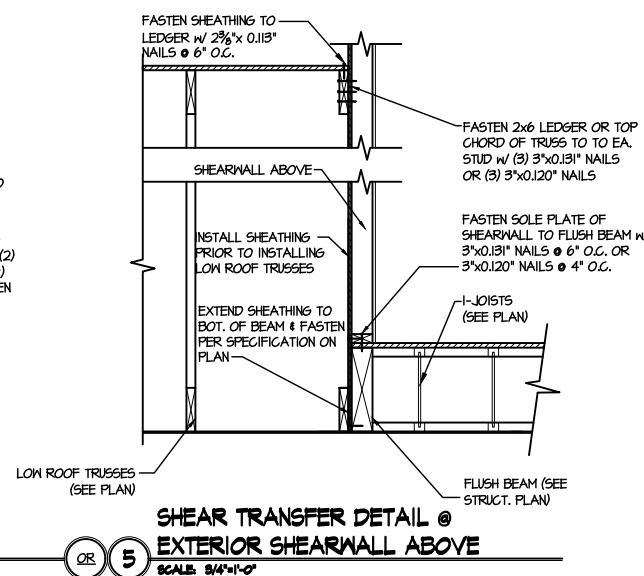
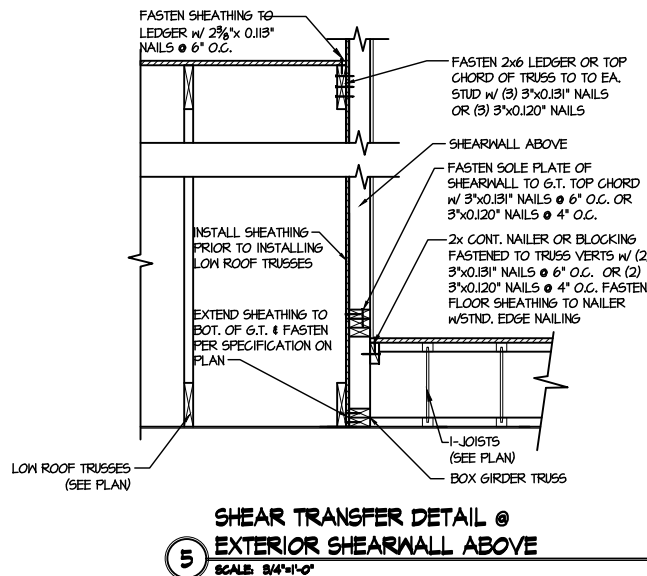
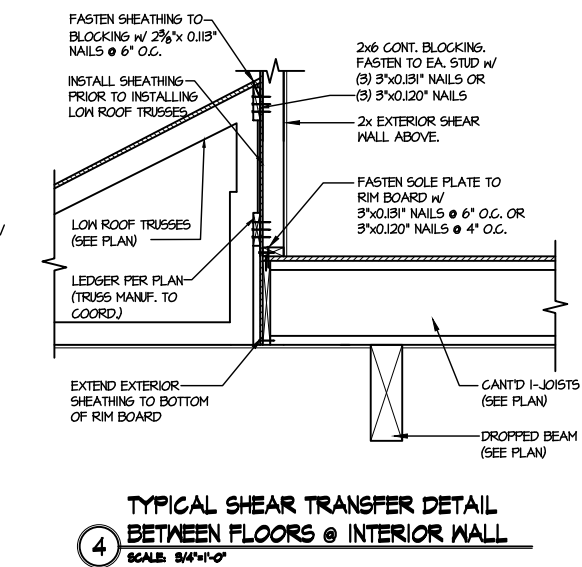
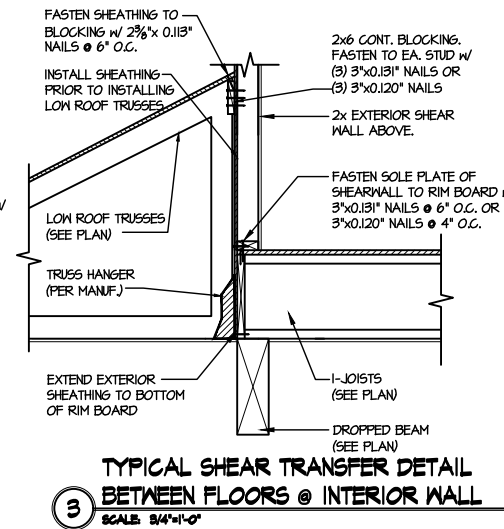
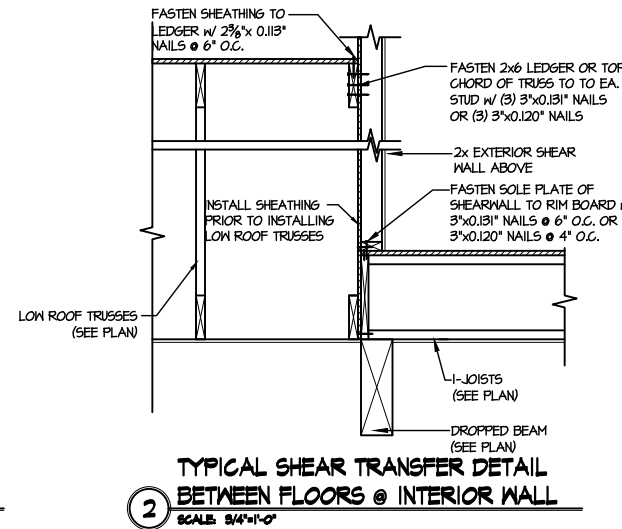
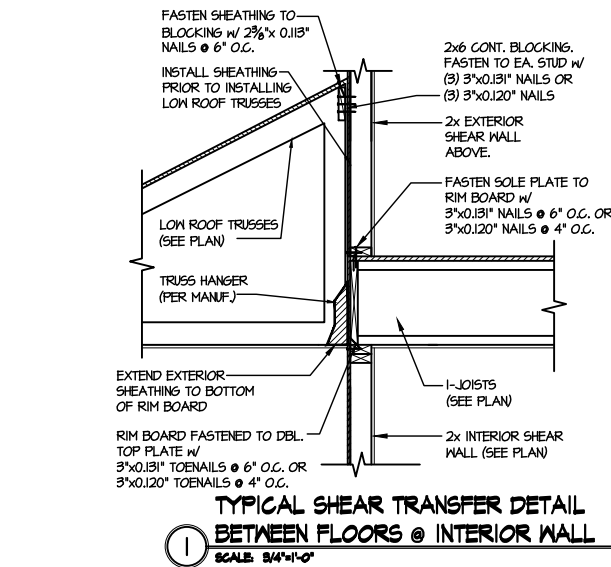
STRUCTURAL NOTES

GRACE MODEL

RAL

sheet:

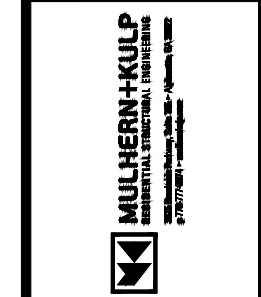
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DREES HOMES

Mulhern+Kulp project number:
project mgr: BSM
drawn by: SMM
issue date: 12-16-22

REVISIONS:	
date:	initial:
05/03/2024	DML
08/08/2024	DML
08/08/2024	DML



LATERAL DETAILS
GRACE MODEL
RAL

sheet:
SD-1

RALEIGH WINDOW SCHEDULE

*** MEETS EMERGENCY ESCAPE & RESCUE
OPENING REQUIREMENTS**

[illegible]

Drees Homes

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Sheet Description:


WINDOW SCHEDULE

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Sheet No.

SC-01

LAST REVISED 11/22/17

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	MOULDED MILLWORK SCHEDULE	SC-02

Fin Mounting System Installation Procedure

The window and installation components should be inspected for any shipping damage. All local codes must be followed and supersede any of the following instructions. All finished surfaces of the window must be protected from damage to frame, paint, and glazing surfaces throughout the complete installation and wall finalization. This is to include stucco, drywall, brickwash or any other cleaning technique other than that recommended by Fyre-Tec. Failure to protect the window will VOID any applicable warranties. Protective coverings are recommended.

Opening Requirements

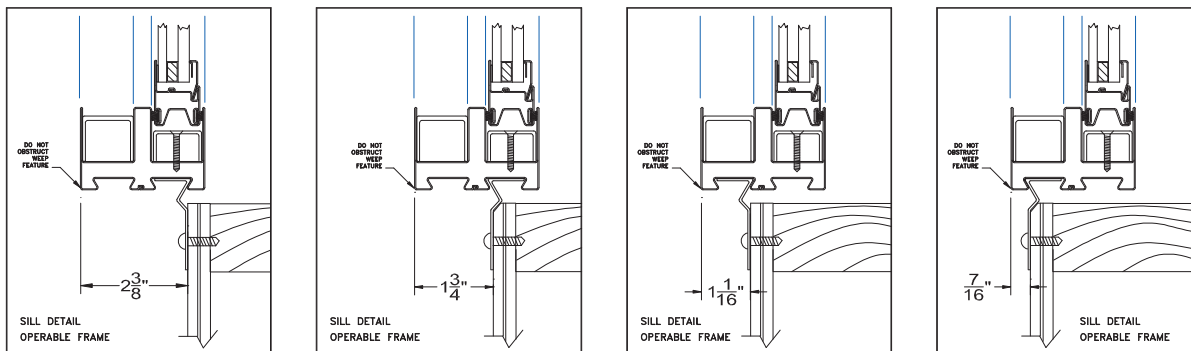
The opening should be built square and plumb and large enough to accept the window(s) provided. Windows are provided $\frac{3}{4}$ " less in both width and height from the rough or nominal opening size. This allows for a $\frac{3}{8}$ " gap around the entire perimeter of the window to be properly squared and shimmed in the opening. It is recommended that the sill of the window be shimmed no less than $\frac{1}{4}$ " above the construction sill to accommodate the weep feature of the window.

Opening Preparation

The window opening is to be prepared in conformance with local code and approved construction drawings. On openings other than masonry it is recommended that the perimeter be prepped with an air-barrier type window wrap and flashing system. Sill panning is recommended for optimal protection against water penetration. Panning and air barriers are not provided by Fyre-tec.

Fin Mounting to Window

The mounting fins are supplied loose and are to be mounted to the window with the self-tapping screws supplied. Window frame depth in relationship to the finished wall may be adjusted in four increments by selecting the mounting position on the perimeter of the frame as shown in the following layout.



Attachment Procedure

1. *Pre-drill holes using a $\frac{3}{16}$ " bit in the fin to be mounted to the window (short leg). The screws are to be positioned 1" from each end of the individual fins and then placed 24" on center thereafter. The hole should be centered on the leg.
*Pre-drill holes using a bit large enough to accept fasteners being used in fin for mounting to wall (Long Leg). Hole locations should be no more than 3" from each end of the individual fins and then placed 16" on center thereafter. The holes should be placed in a known location as to allow fastener to penetrate a structural member of the wall.
2. Caulk bedding is to be applied around the perimeter of the frame in the frame recess that the fin is intended to be mounted. As shown (A). Any other holes or voids in the perimeter of the frame must be sealed as well to prevent water penetration into the wall cavity.
3. Screw the fin to the window as shown in (B) & (C)

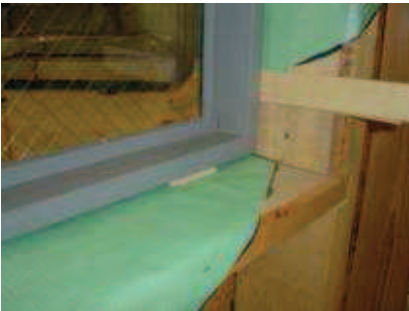


Note: The sill of **operable windows** have additional factory applied butyl tape to further assist in preventing water leaking into wall cavity.

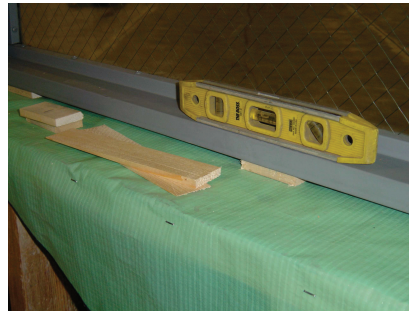
Window Installation in Opening

Installation will require a minimum of two people.

One individual should remain on the exterior to hold the window in place and the other on the interior to center the window in the opening using a flat pry-bar or shim. All sides on the interior should have approximately 3/8" gap from wall opening to window edge. Shim using an approved material. Check window for level in the opening and complete shim application. Once the window is shimmed properly, attach the fin on the exterior to a structural member per an approved method as laid out by an architect or authority having jurisdiction. Special attention should be made with the weep feature of the window in the exterior sill. A minimum 1/4" gap should be maintained between the sill of the window and the construction sill of the wall to allow for proper weeping and drainage from the window.



INTERIOR



EXTERIOR



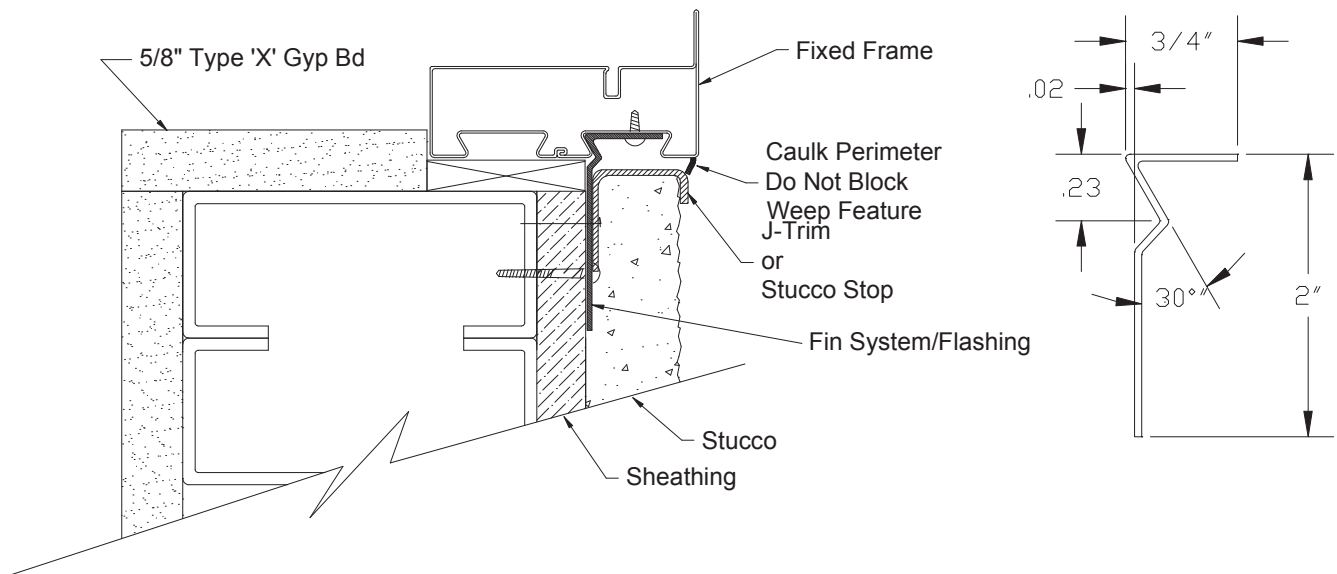
When attaching the Fin to the wall section keep the corners loose to apply the Fin corner pieces. Caulk corner of wall where Fin will be placed as seen in picture to (left). Pull fin away from wall slightly and slide fin underneath as shown in picture (lower left). Once all Fin corners are installed caulk all exposed seams using an approved sealant shown (lower right). The window is now ready to be flashed.



Flashing the Installation

Flashing the exterior gives added protection against water penetration. The recommended procedure for flashing the opening is to use a flexible adhesive backed window wrap. Each application of the window wrap should be cut extra long as to allow over lapping in each of the corners, at least the width of the wrap itself. The wrap should contact the window frame and be applied per manufacture specification.

If stucco is the desired finished wall exterior a J-channel trim must be used to keep the stucco from contacting the perimeter of the window frame. Protection against stucco from getting on the window and glazing surfaces is important.



Finalizing the Installation & Weep Feature

Once the wall construction is complete and stucco, siding, masonry or other application is complete, a perimeter beading of approved sealant is needed. Use caution when sealing around the weep feature.

The weep feature is a very important part in the longevity of the window's life span. On exterior applications special attention should be made to the exterior sill and the windows weep feature. The weep located 2" in from both corners of the sill and should be inspected or verified that the weep is open to a gap of 1/8" by approximately 7/8" long. Verification ensures that the weep has not been pinched down or crimped shut during shipping, handling, and installation. Failure to inspect the weep feature prior to finalizing the project can lead to water leakage as well as premature rusting with the window. If the slot needs additional adjustment carefully use a flat screwdriver or small pry-bar to make the gap more. Do not use excessive force, which can cause the frame to tear or crack the protective paint.



Tools Recommended:

- | | | |
|-----------------|---------|---|
| -Safety glasses | -Pencil | -Power tool with drilling and screwing capabilities |
| -Measuring tape | -Hammer | -Saw or power saw with metal cutting capabilities |
| -Caulking Gun | -Level | -Pry-bar for shimming and squaring |

Supplies Needed:

Notice All supplies must be approved and meet local code requirements. Contact your local inspector for a list of their approved products.

- | | | |
|----------|------------|--------|
| -Sealant | -Fasteners | -Shims |
|----------|------------|--------|

Parts Shipped

Contained within each individual crate supplied are:

1-Window

*1-Trim kit containing:

Instructions

1-Head Fin

1-Sill Fin

2-Jamb Fins

4-Fin Corners

**Touchup paint



**Screws for applying fin

(Not shown)

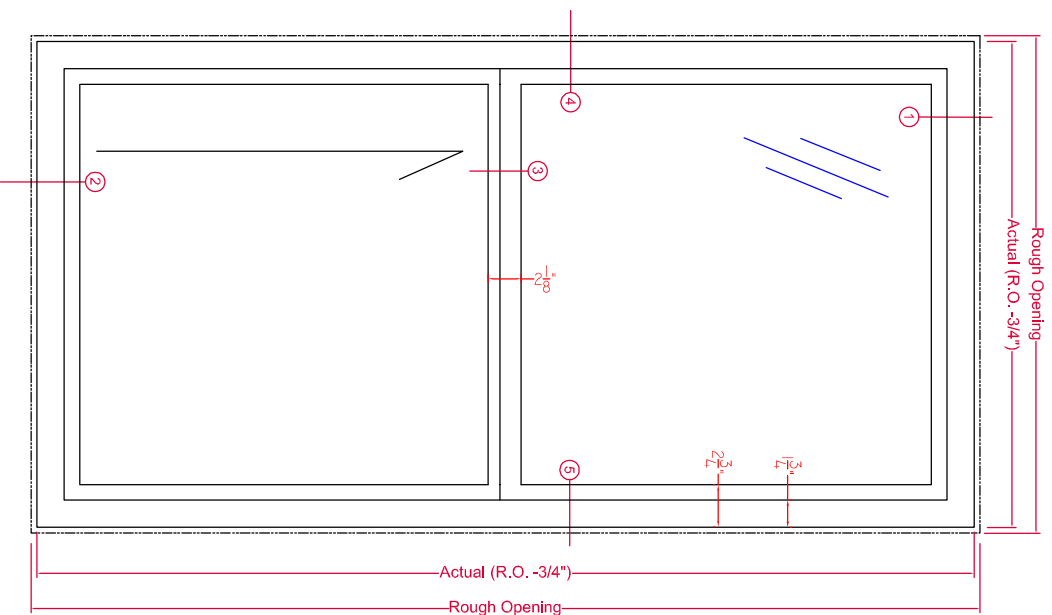
Mullions if applicable

Notes:

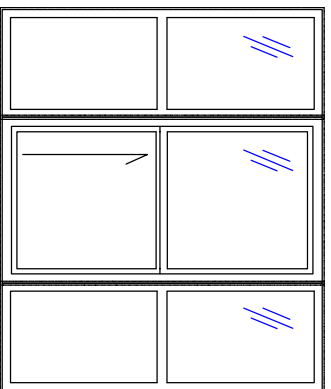
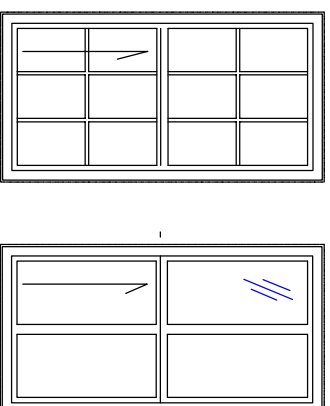
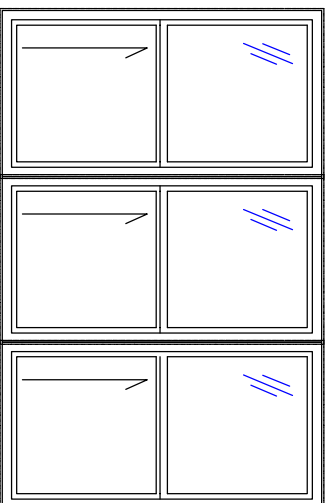
The window and parts should be inspected for shipping damage prior to installation

*If trim kit exceeds the length of the window it will be provided in separate box.

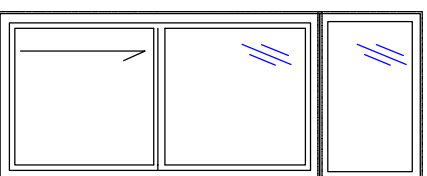
**Note: Depending upon the quantity of windows, touchup paint and screws may be provided in larger bags with enough quantity to cover the whole order. These bags will be attached to only one or several trim kits depending on order quantity. Location of these items will be identified on the shipped crate being marked as "SCREWS"



Typical Exterior Elevation
 Fire-Tec Series 925 Single Hung Window
 45- or 60-Minute UL Rated

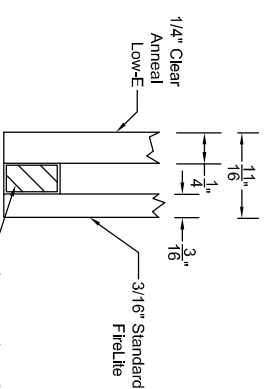


Mullied with Zero Vertical Mullions
 and Series 950 Fixed Lites



Mullied with Series
 950 Transom

Typical IGU Makeup



May include 1 hour UL rated ceramic with 1/4" clear anneal Low-E. Many other combinations are available depending on the requirements for safety glazing or U-values. Wireglass IGU available.

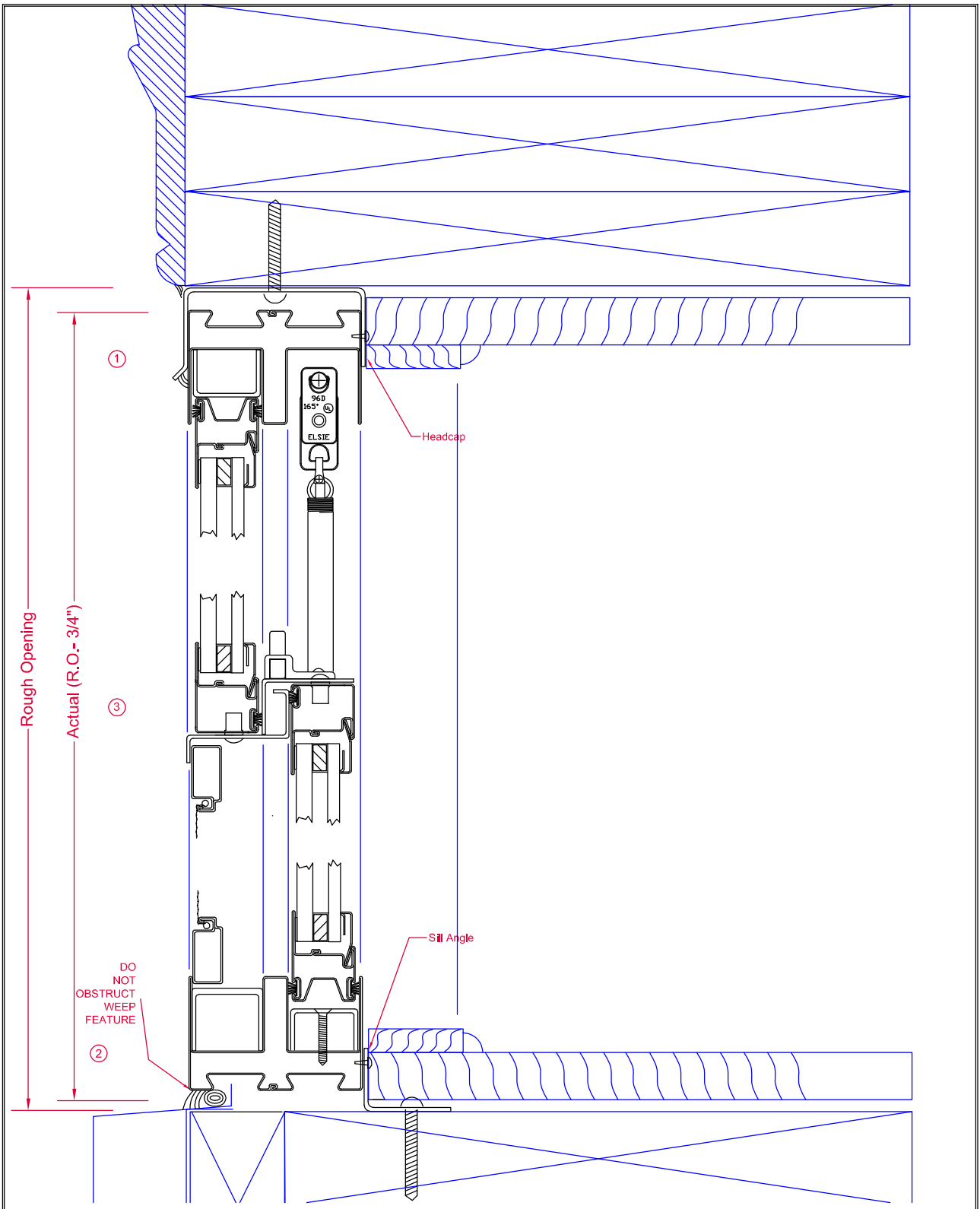
See Fire-Rated Glazing Section
 for various options and
 configurations for U.L. labeled
 glazing.

925 SINGLE HUNG - SUBFRAME INSTALLATION



P.O. Box 278, 701 Centennial Road
 Wayne, NE 68787

TOLERANCE:	DWN BY
1. FRACTIONS +/- 1/16	JDD
2. DECIMALS +/- .0625	CK'D BY
3. ANGLES +/- 1/2 DEGREE	DATE
EXCEPT AS NOTED	11-30-2015
SCALE	1:8
PAGE	1/3
DWG No.	MODEL 925



HEAD/SILL-SUBFRAME

DWN BY

JDD

CK'D BY

DATE

11-30-2015

TOLERANCE:

1. FRACTIONS $\pm 1/16$
2. DECIMALS $\pm .0625$
3. ANGLES $\pm 1/2$ DEGREE

EXCEPT AS NOTED

MAT'L

SCALE

1:1.5

PAGE

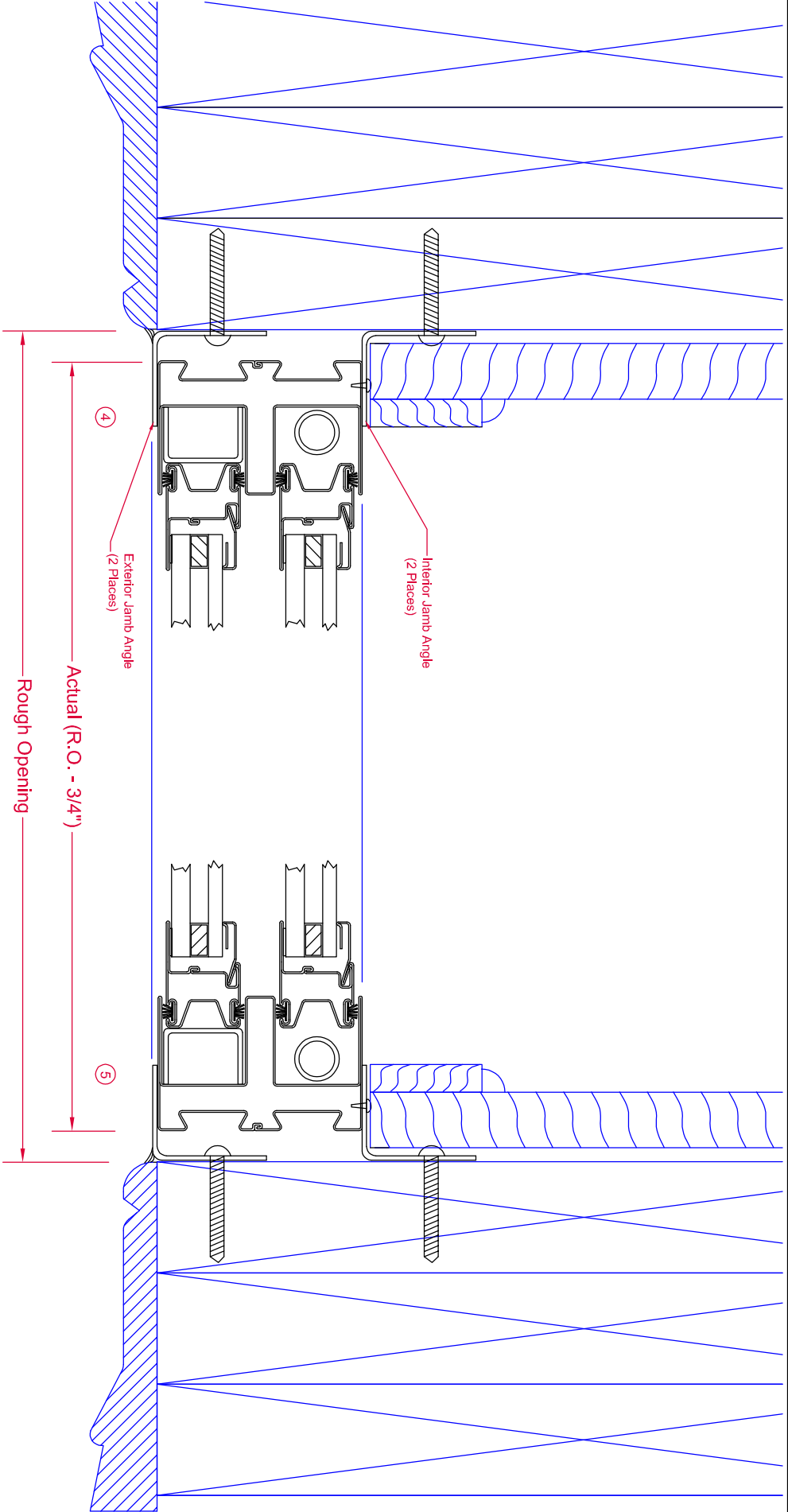
2/3

DWG No.

MODEL 925




P.O. Box 278, 701 Centennial Road
Wayne, NE 68787



JAMB - SUBFRAME INSTALLATION KIT

TOLERANCE: 1. FRACTIONS ±1/16 2. DECIMALS ±.0625 3. ANGLES ±1/2 DEGREE EXCEPT AS NOTED		DRAWN BY JDD	
DATE 11-30-2015		SCALE 1:1.5	
PAGE 2		DWG NO. MODEL 025	



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