

FRONT ELEVATION "B"

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

THIS PLAN CONFORMS TO THE 2012 EDITION OF THE I.R.C. / NORTH CAROLINA RESIDENTIAL CODE.

TABLE 402.1.1 ENERGY CONSERVATION CODE INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT

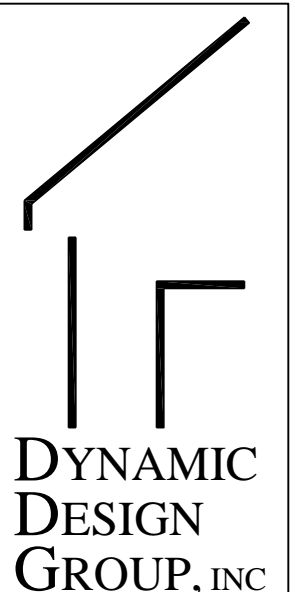
CLIMATE ZONE	FENS. U-FAC	SKY-LIGHT U-FAC	GLAZED FENS. SHGC	MINIMUM INSULATION R-VALUE						
				CEILING	WOOD WALL	MAS6 WALL	FLOOR	BS'NT WALL	SLAB 4 DEPTH	CRAIL SPACE
3	0.35	0.55	0.30	38 or 30 cont.	15 or 13-2.5	5/13 or 5/10 cont.	19	5/13	0	5/13
4	0.35	0.55	0.30	38 or 30 cont.	15 or 13-2.5	5/13 or 5/10 cont.	19	10/13	10	10/13
5	0.35	0.55	NR	38 or 30 cont.	19, 13-5 or 15-3	13/17 or 13/12.5 cont.	20	10/13	10	10/19

SEE TABLE 301 CLIMATE ZONES BY COUNTY ENERGY CONSERVATION CODE
 SEE FOOTNOTES OF TABLE N102.1 FOR FOOTNOTES AND DETAILED EXPLANATIONS.



RIGHT SIDE ELEVATION

SCALE: 1/16" = 1'-0"



DYNAMIC DESIGN GROUP, INC

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 www.DDGhomeplans.com

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Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification. Once construction has commenced, the contractor shall assume all responsibility. Dimensions govern over scale, code governs over dimensions.

PROJECT FOR: ICG
 LOCATION: FUQUAY-VARINA
 LOT: 122
 SUBDIVISION: SERENITY
 COUNTY: HARNETT

JACKSON

PLAN NAME

B-3563-72GR

PLAN I.D.

9.20.23

DATE

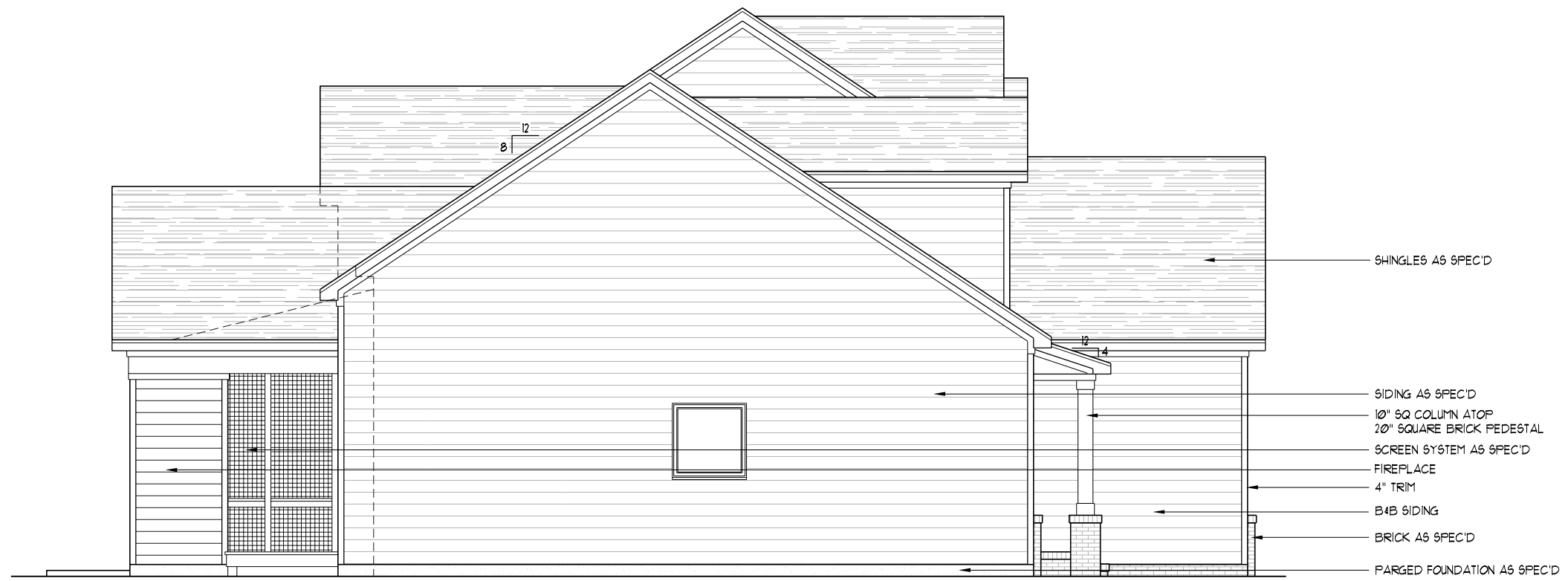
A-1A
 SHEET



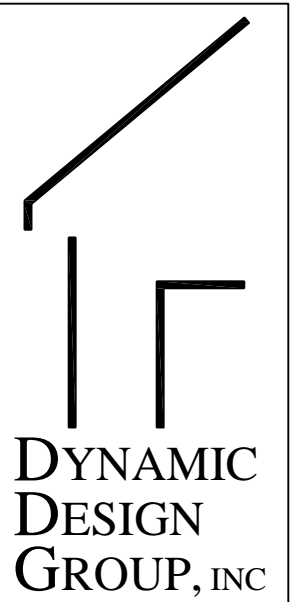
REAR ELEVATION
 SCALE: ----- 1/16" = 1'-0"

9'-1 1/2" PLATE HGT.
 (9'-0" CEILING HEIGHT)
 1'-4" WINDOW HGT.

10'-1 1/2" PLATE HGT.
 (10'-0" CEILING HEIGHT)
 8'-0" WINDOW HGT.



LEFT SIDE ELEVATION
 SCALE: ----- 1/16" = 1'-0"



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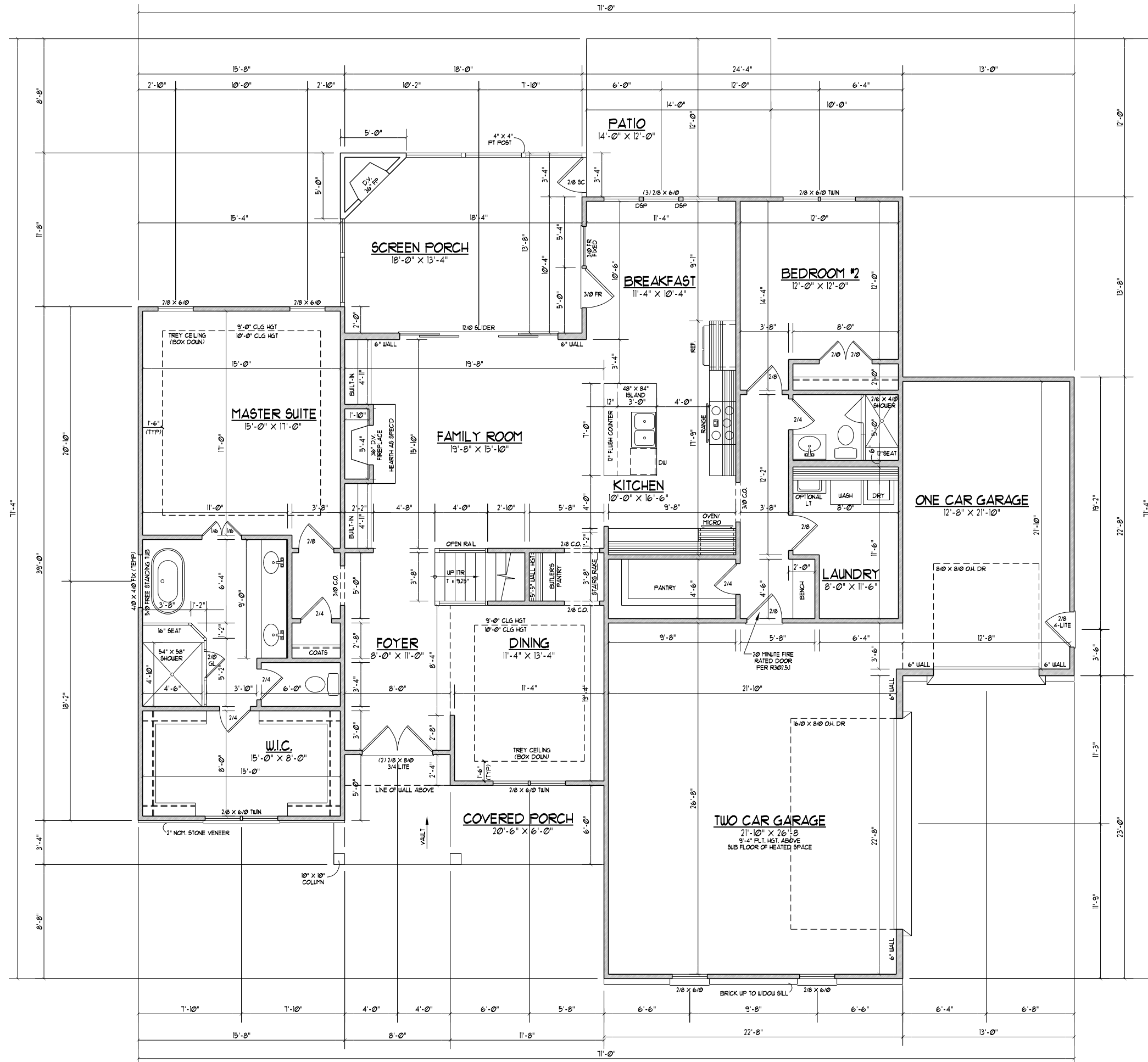
Dimensions govern over scale, code governs over dimensions.

PROJECT FOR: ICG
 LOCATION: ---
 LOT: ---
 SUBDIVISION: ---
 COUNTY: ---

JACKSON
 PLAN NAME
B-3563-72GR
 PLAN I.D.

3.28.22
 DATE

A-1B
 SHEET



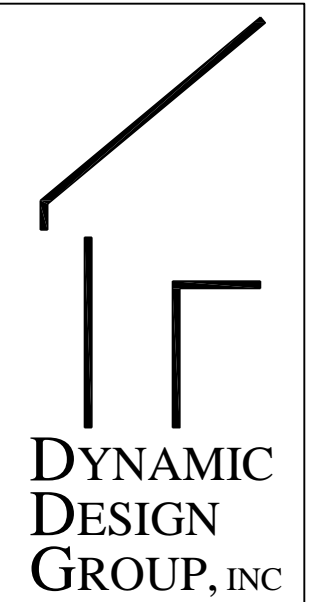
FIRST FLOOR PLAN

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

2022 HEATED SQ. FT.
 903 SQ. FT. GARAGE
 139 SQ. FT. COVERED PORCH
 751 SQ. FT. SCREEN PORCH
 168 SQ. FT. PATIO

NOTES:

- 1) 10'-0" CLG. HGT. (10' - 1 1/2" PLT. HGT.) UNLESS OTHERWISE NOTED.
- 2) ALL WALLS FIGURED AT 4" WIDTHS
- 3) SET WINDOWS AT 8'-0" ASF. UNLESS OTHERWISE NOTED.
- 4) DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE NOTED.
- 5) CONSULT WINDOW MANUFACTURER'S SPECS. FOR EGRESS REQUIREMENTS, PRESSURE RATINGS, & ROUGH OPENINGS.
- 6) ELECTRICAL LAYOUT BY BUILDER
- SD = SMOKE DETECTOR
- CO = CARBON MONOXIDE DETECTOR



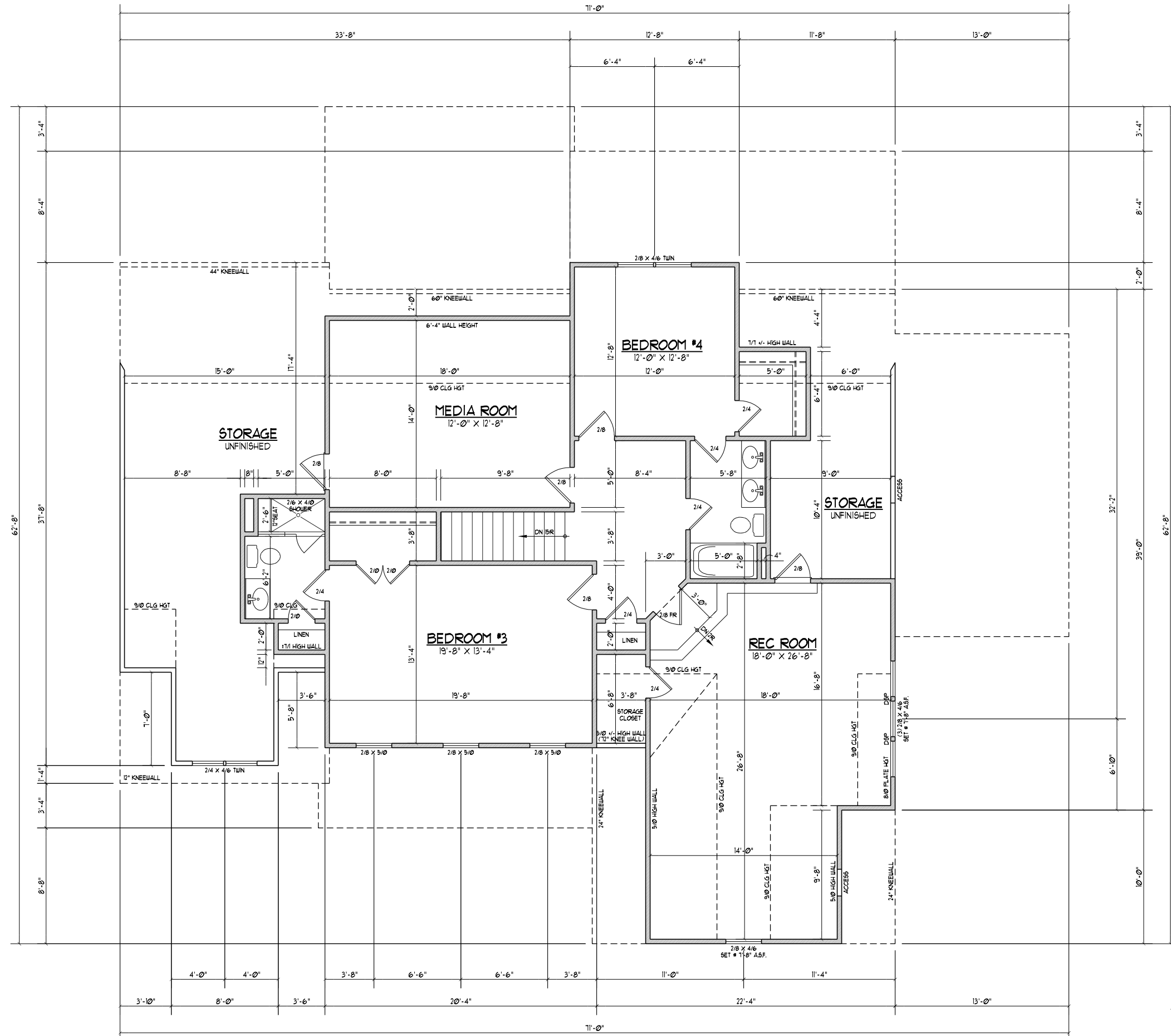
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 SUBDIVISION: SERENITY
 COUNTY: HARNETT

JACKSON
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 PLAN I.D.
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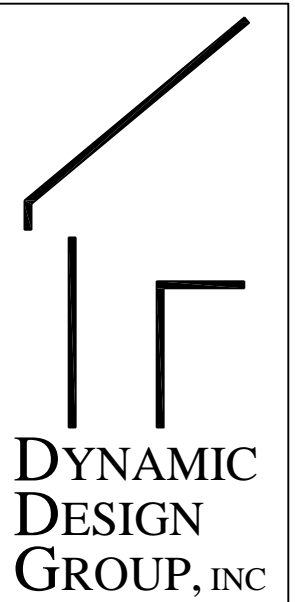
A-2
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- NOTES:**
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 - 2) ALL WALLS FIGURED AT 4" WIDTHS UNLESS OTHERWISE NOTED.
 - 3) SET WINDOWS AT 1'-4" ASF. UNLESS OTHERWISE NOTED.
 - 4) DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE NOTED.
 - 5) CONSULT WINDOW MANUFACTURER'S SPECS. FOR EGRESS REQUIREMENTS, PRESSURE RATINGS, & ROUGH OPNG'S.
 - 6) ELECTRICAL LAYOUT BY BUILDER
 SD = SMOKE DETECTOR
 CO = CARBON MONOXIDE DETECTOR

SECOND FLOOR PLAN
 SCALE 1/8"=1'-0"

1541 HEATED SQ. FT.



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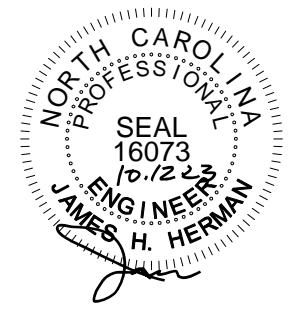
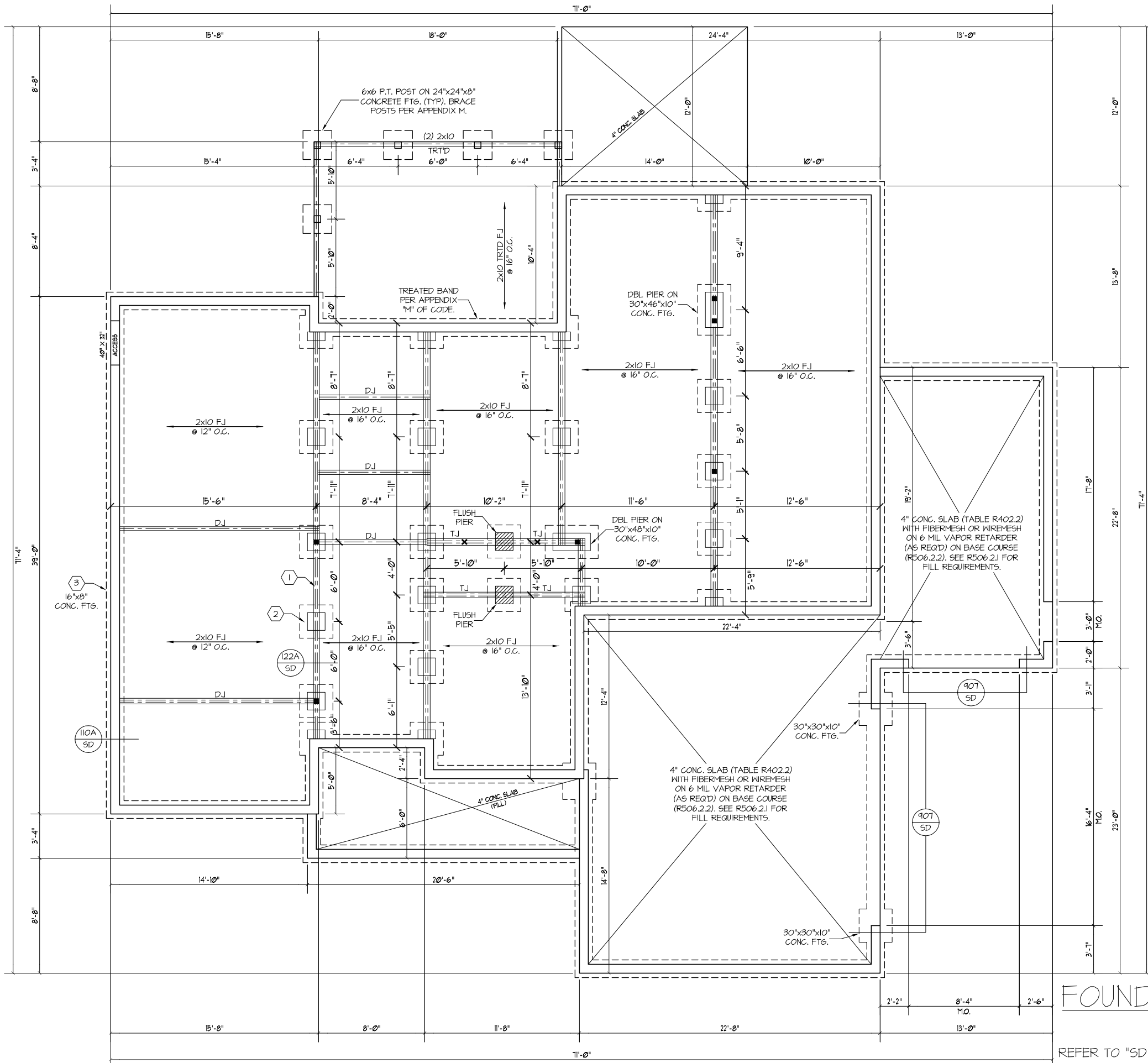
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A-3
 SHEET



WALL VENTED CRAWL SPACE	
REQUIRED	
2022	50 FT. / 50' = 13.48 SQ. FT. OF VENTILATION

CLOSED CRAWL SPACE VENTILATION METHODS	
(SEE REFERENCED SECTIONS IN CODE BOOK FOR DETAILED INSTRUCTIONS)	
(R4025.1) DEHUMIDIFIER	
A PERMANENTLY INSTALLED DEHUMIDIFIER SHALL BE PROVIDED IN THE CRAWL SPACE WITH THE MINIMUM RATED CAPACITY OF 5 PINTS PER DAY.	
(R4025.2) SUPPLY AIR	
2022	50 FT. / 30' = 6.8 CFM
(R4025.3) HOUSE AIR	
2022	50 FT. / 50' = 42 CFM
(R4025.4) EXHAUST FAN	
2022	50 FT. / 50' = 42 CFM
(R4025.5) CONDITIONED SPACE	
THE CRAWL SPACE SHALL BE DESIGNED AS A HEATED AND COOLED, CONDITIONED SPACE WITH WALL INSULATION INSTALLED AS PER THE REQUIREMENTS OF SECTION R4025.1.	

- FOUNDATION STRUCTURAL NOTES**
 NC (2018 NRC): Wind: 115-120 mph - CRAWL
- (1) (3) 2x10 SYP#2 OR SFP#2 GIRDER, TYPICAL UNO.
 - (2) CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE	HOLLOW	SOLID
8x16	UP TO 32'	UP TO 5'-0"
12x16	UP TO 48'	UP TO 9'-0"
16x16	UP TO 64'	UP TO 12'-0"
24x24	UP TO 96'	

 - WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.
 - (3) WALL FOOTING AS FOLLOWS

DEPTH	8" - UP TO 2 STORY
	10" - 3 STORY

WIDTH	16" - UP TO 2 STORY
	20" - 3 STORY

BRICK	16" - 1 STORY
	20" - 2 STORY
	24" - 3 STORY

 - FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO CODE TABLE R404.1.1 (1) THRU (4) NOTE. ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.
 - (4) 2x10 SFP #2 OR SYP #2 GIRDER
 - (2) 1.75x4.25 LVL OR LSL GIRDER
 - (3) 1.75x4.25 LVL OR LSL GIRDER
1. ■ DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO END, TYPICAL.
8. ABBREVIATIONS:
 "S" = SINGLE JOIST
 "DJ" = DOUBLE JOIST
 "TJ" = TRIPLE JOIST
9. ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS.

FOUNDATION STRUCTURAL PLAN
 SCALE: 1/8" = 1'-0"
 REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES

PROJECT #
 22-1479 (Lot 122)

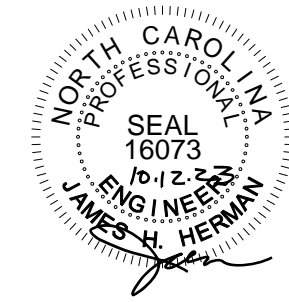
Engineers seal applies only to structural components on this document.
 Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
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 Seal is valid for projects permitted one year from date of seal.
 Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

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 License: C-4772
 www.southernengineers.com

DYNAMIC DESIGN GROUP

Jackson - Garage Right
 122, Serenity
 Fuquay Varina, NC - Harnett County
 ICG HOMES

S-1



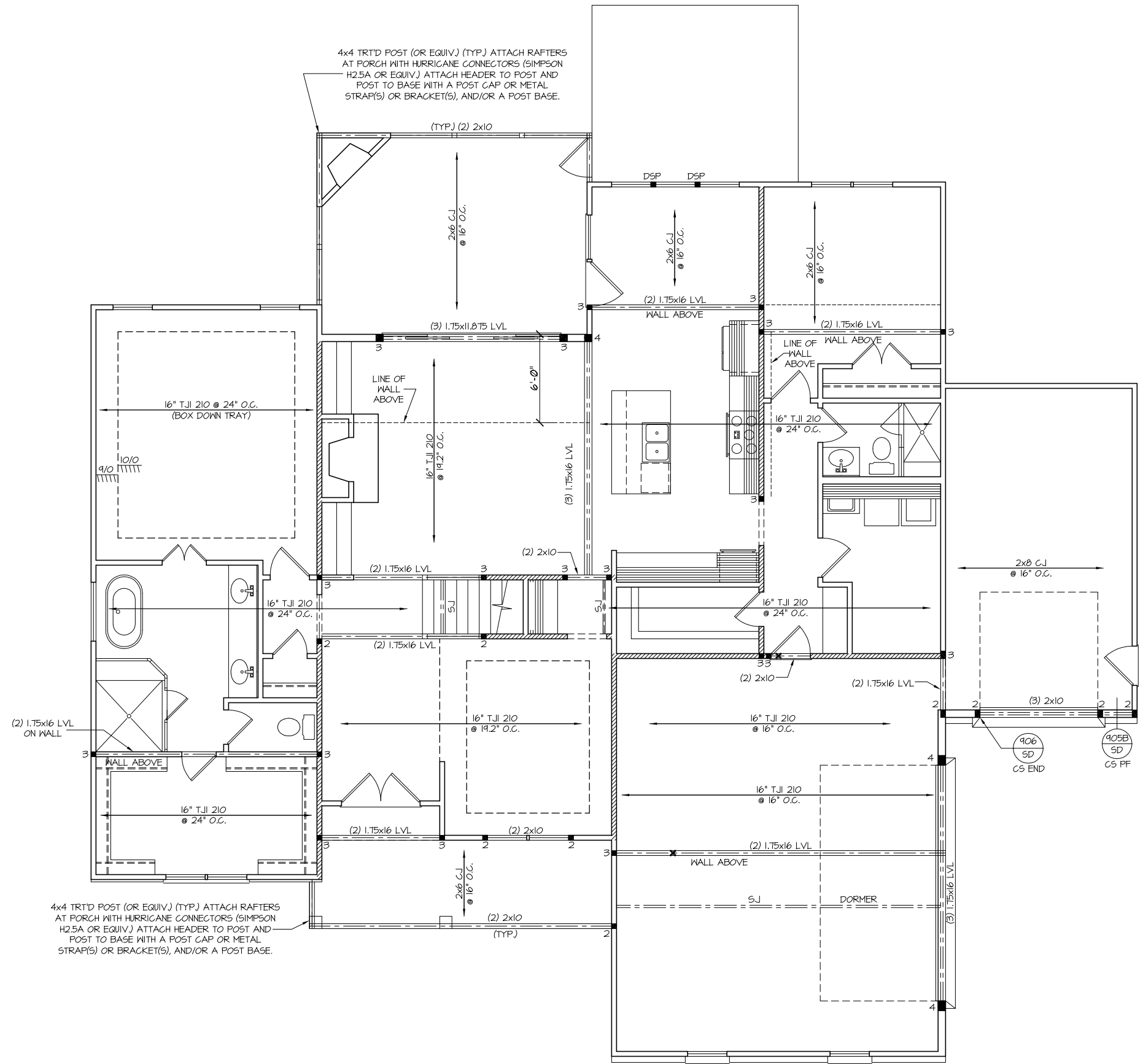
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HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2x10 (4" WALL) OR (3) 2x10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW PER NCDOL COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-9-2020.
 - UP TO 3' SPAN: (1) KING STUD
 - OVER 3' UP TO 6' SPAN: (2) KING STUDS
 - OVER 6' UP TO 9' SPAN: (3) KING STUDS
 - OVER 9' UP TO 12' SPAN: (4) KING STUDS
 - OVER 12' UP TO 15' SPAN: (5) KING STUDS

WOOD I-JOISTS

- (SHALL BE ONE OF THE FOLLOWING):
- TJI 210 BY I-LEVEL
 - LPI 20 PLUS BY LP
 - BCI 5000s 18 BY BC
- ALL WOOD I-JOISTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
 - INSTALL SQUASH BLOCKS, WEB STIFFENERS, ETC. AS REQUIRED BY AND ACCORDING TO THE I-JOIST MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
 - HANGERS FOR I-JOISTS ARE THE RESPONSIBILITY OF THE I-JOIST SUPPLIER.

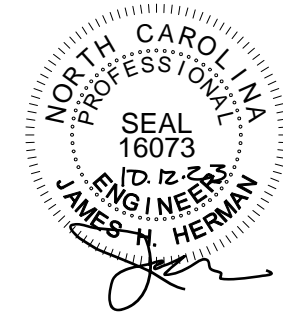
LVL CONNECTION LEGEND

- (2) PLY 1.75" BEAMS:
 - (3) 10d NAILS @ 12" OC OR
 - (2) SDW22338 (OR EQUAL) @ 16" OC
- (3) PLY 1.75" BEAMS:
 - (2) SDW22500 (OR EQUAL) @ 16" OC
- (4) PLY 1.75" BEAMS:
 - (2) SDW22634 (OR EQUAL) @ 16" OC

FIRST FLOOR STRUCTURAL PLAN

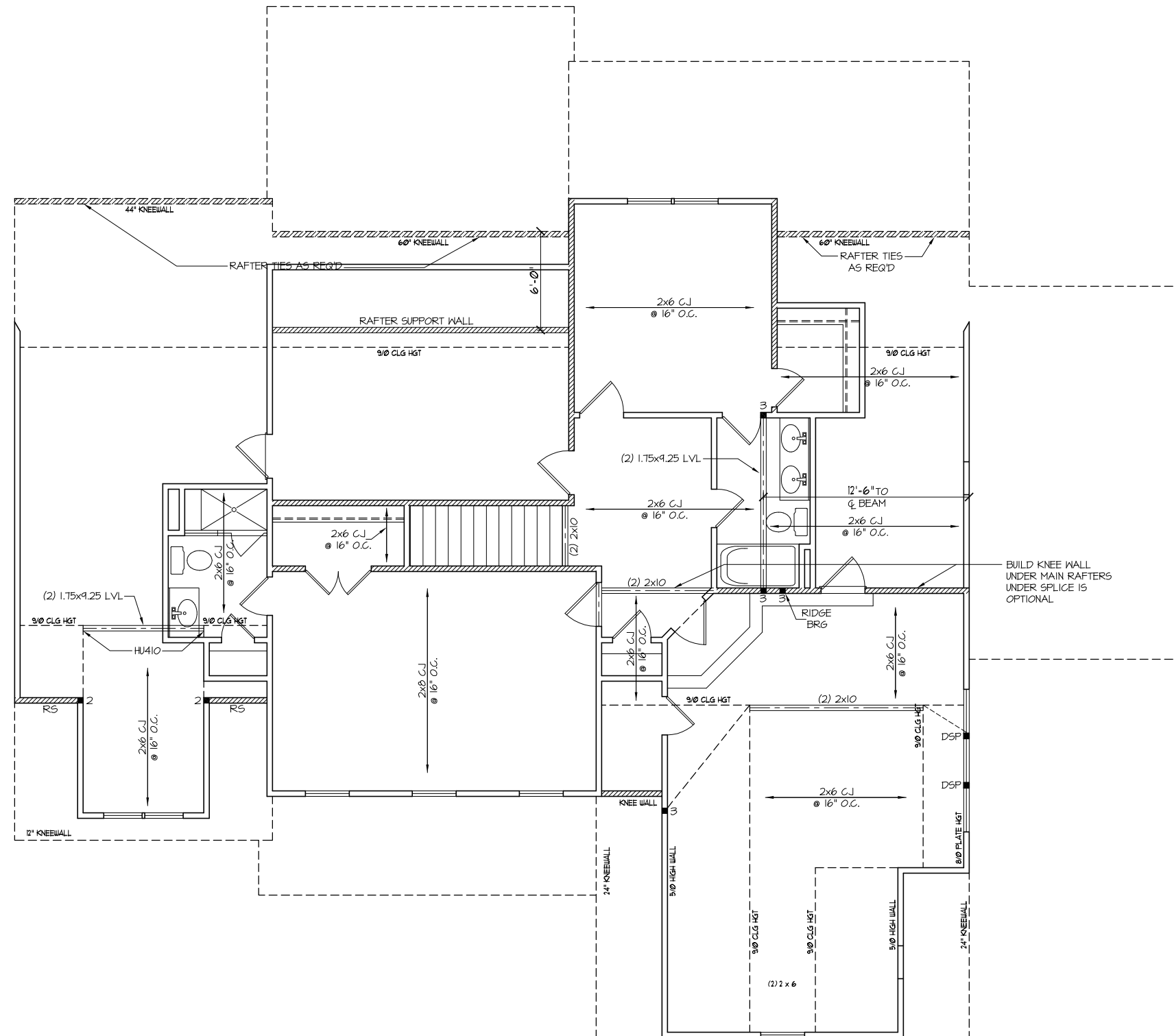
SCALE: 1/8" = 1'-0"

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES



PROJECT #
22-1479 (Lot 122)

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 - UP TO 3' SPAN: (1) KING STUD
 - OVER 3' UP TO 6' SPAN: (2) KING STUDS
 - OVER 6' UP TO 9' SPAN: (3) KING STUDS
 - OVER 9' UP TO 12' SPAN: (4) KING STUDS
 - OVER 12' UP TO 15' SPAN: (5) KING STUDS

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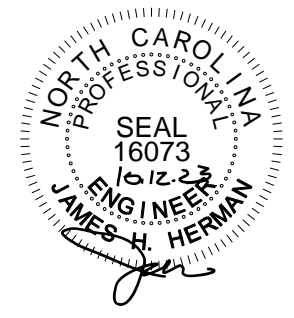
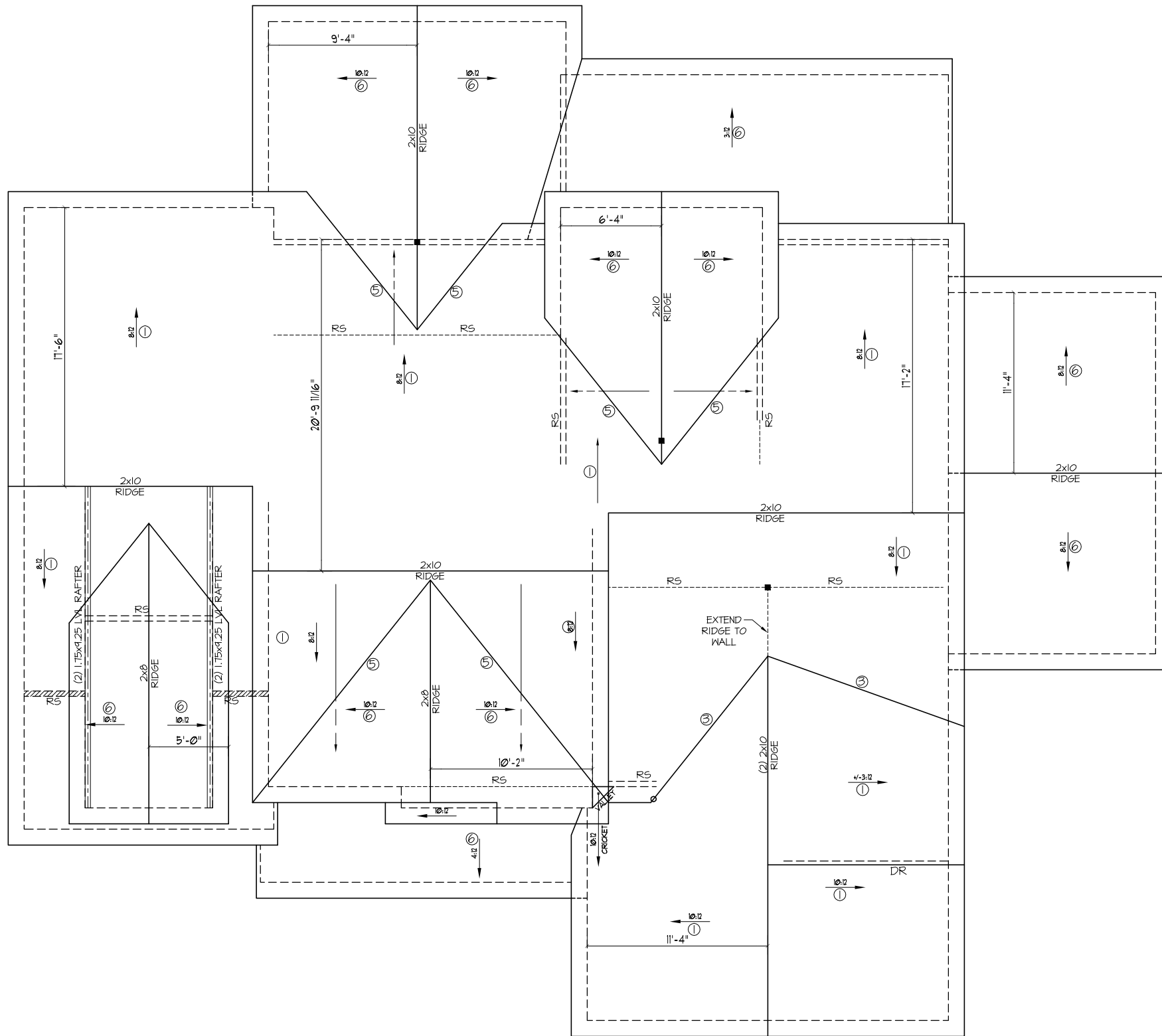
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GROUP**

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ICG HOMES

SECOND FLOOR STRUCTURAL PLAN

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

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES



ATTIC VENTILATION	
REQUIRED	$\frac{3315 \text{ SQ. FT. OF ATTIC}}{300} = 11.05 \text{ SQ. FT. OF INLET \& OUTLET}$
PROVIDED	
(INLET)	
SOFFIT	$\frac{.07 \text{ SQ. FT. PER X 138 LINEAR FT.}}{\text{OF VENT.}} = \frac{9.66 \text{ SQ. FT.}}{\text{OF VENT.}}$ (TOTAL 45%)
(OUTLET)	
RIDGE	$\frac{.11 \text{ SQ. FT. PER X 149 LINEAR FT.}}{\text{OF VENT.}} = \frac{16.39 \text{ SQ. FT.}}{\text{OF VENT.}}$ (TOTAL 55%)
	26.05 TOTAL SQ. FT. OF VENT.

ROOF FRAMING NOTES:

- NC (2018 NCRC); Wind: 115-120 mph
- 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
 - (2) 2x10 OR 1.75x11.875 LVL HIP, (2) 2x10 HIPs MAY BE SPLICED WITH A MIN. 6'-0" OVERLAP AT CENTER
 - (2) 2x10 OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE VALLEYS
 - 1.75x11.875 LVL OR (2) 1.75x9.25 LVL VALLEY
 - FALSE FRAME VALLEY ON 2x10 FLAT PLATE
 - 2x6 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO.
 - 2x10 RAFTERS @ 16" O.C. W/ 2x12 RIDGE, UNO.
 - EXTEND RIDGE 12" BEYOND INTERSECTION
 - "SR" = SINGLE RAFTER
 "DR" = DOUBLE RAFTER
 "TR" = TRIPLE RAFTER
 "RS" = ROOF SUPPORT
 - "■" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT (USE 2x6 STUDS OR 6x6 POST FOR SUPPORT OVER 10'-0" IN HEIGHT)
 - ATTACH VAULTED RAFTERS WITH HURRICANE GLIPS: SIMPSON TH-25A1 OR EQUIVALENT, TIES TO BE INSTALLED ON THE OUTSIDE FACE OF FRAMING.
 - INSTALL RAFTER TIES AND COLLAR TIES PER SECTION R202.3.1 OF THE 2018 NC RESIDENTIAL CODE.

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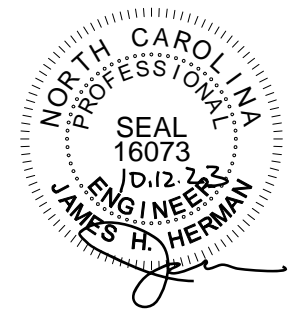
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ROOF STRUCTURAL PLAN

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

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES

S-4



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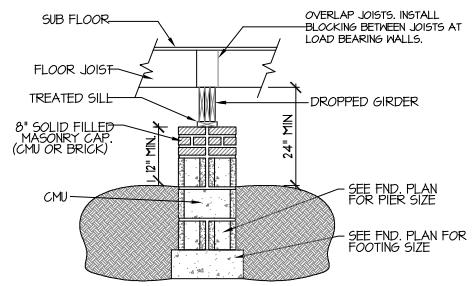
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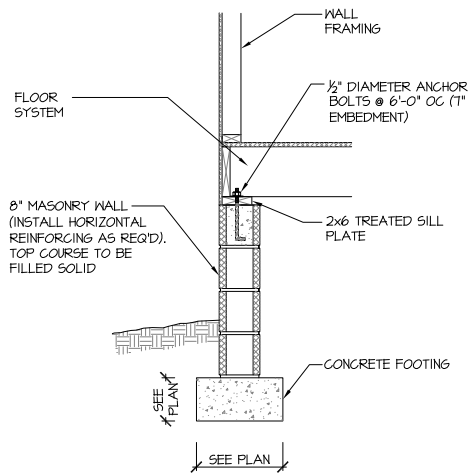
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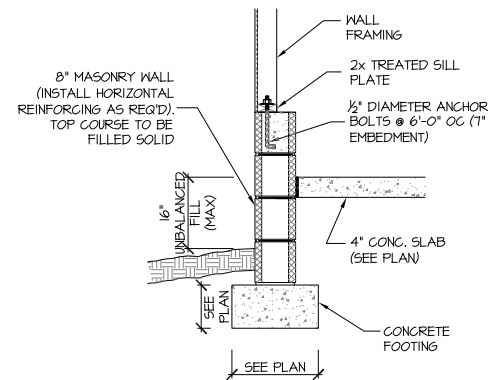
SD



122A DROPPED GIRDER
SD NTS



115-120 CRAWL SPACE FOOTING
SD (SIDING OR EQUAL)

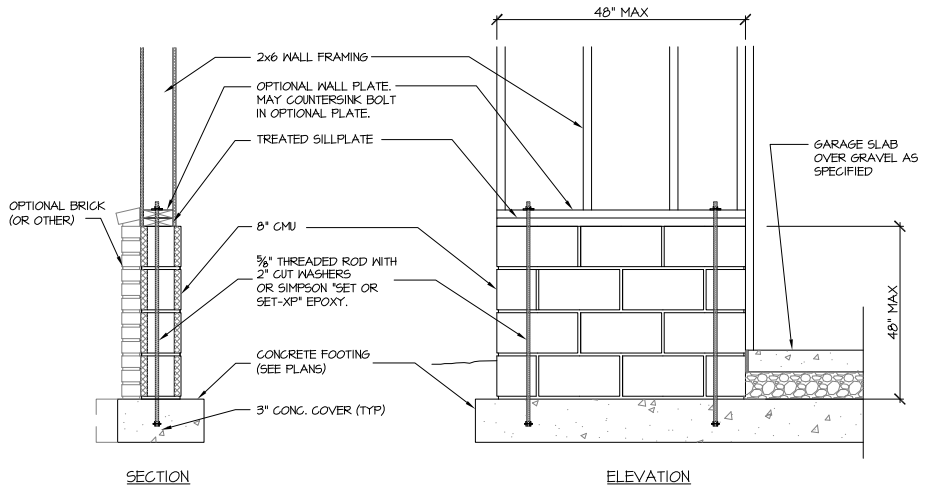


115-120 GARAGE WALL FOOTING
SD (SIDING OR EQUAL)

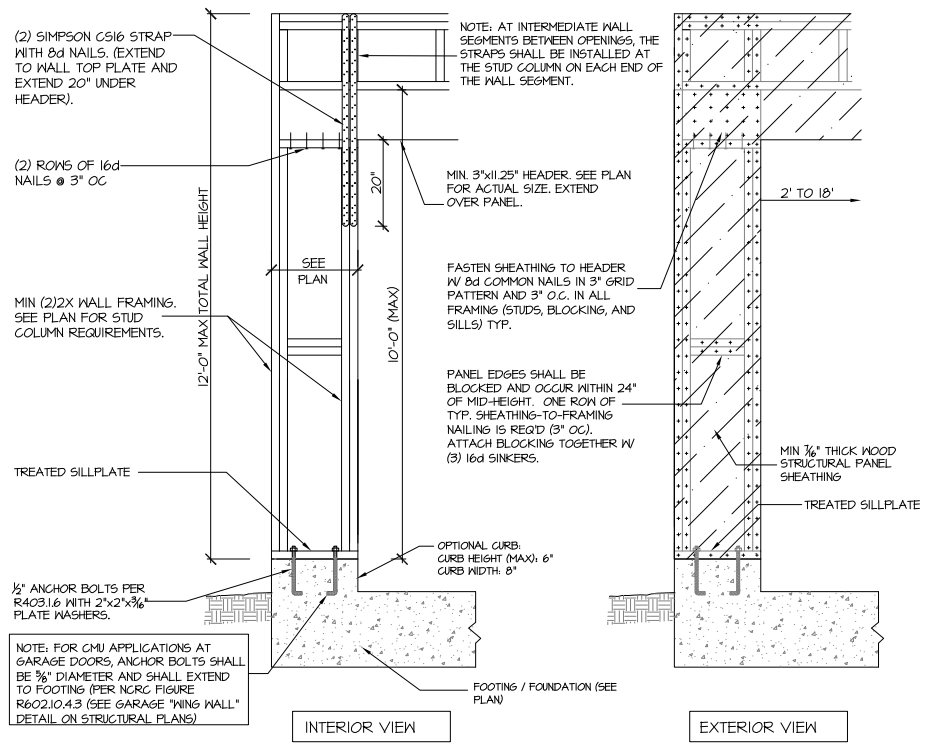
FRAMING NOTES

NC (2018 NRC): Wind: 115-120 mph

- BRACING METHOD AND TYPE, CONTINUOUSLY SHEATHED WSP. CS-WSP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY SECTION R602.10.4 OF THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL FRAMING.
- EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WSP) (EXPOSURE B: 1/16", EXPOSURE C: 15/32"). SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.
- WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF PER SECTION R602.10.4.5 AND ATTACH BRACED WALLS PER CODE. WSP SHEATHING BETWEEN FLOORS SHALL BE SPICED ALONG CONTINUOUS BAND OR THE WSP SHEATHING MAY BE SPICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES. (MINIMUM 12" BEYOND FLOOR BREAK) OR OTHER APPROVED METHOD.
- "HD" = HOLD-DOWN: HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY.
 - **GROUND/FIRST FLOOR: USE "HD" HOLD-DOWN DETAIL" ON SD SHEET (OR EQUIV.)
 - **UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON CS22 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 7" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (7) 8d NAILS.
- INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH 1/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 1' O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.
- INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 1/2" WSP SHEATHING WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. ATTACH GB OVER WSP AS REQUIRED. ATTACH OPPOSITE SIDE WITH 1/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 1' O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.



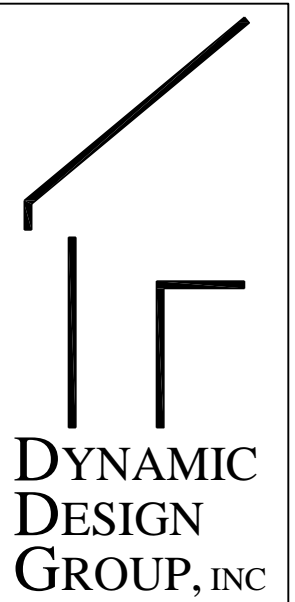
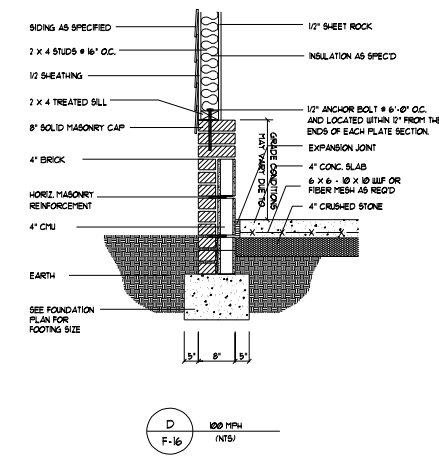
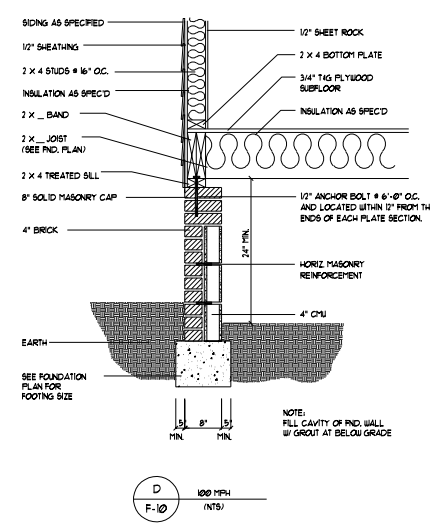
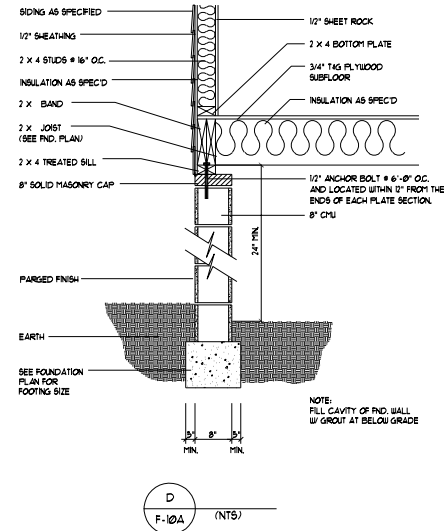
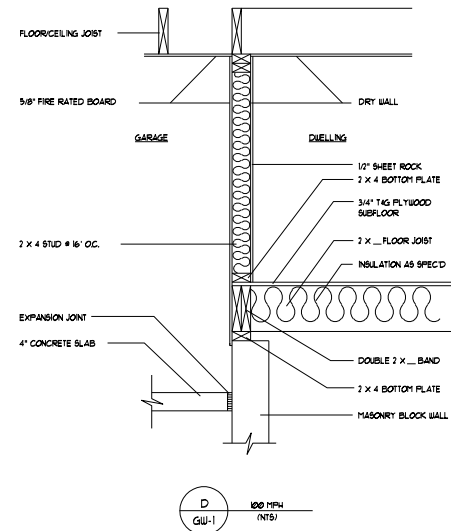
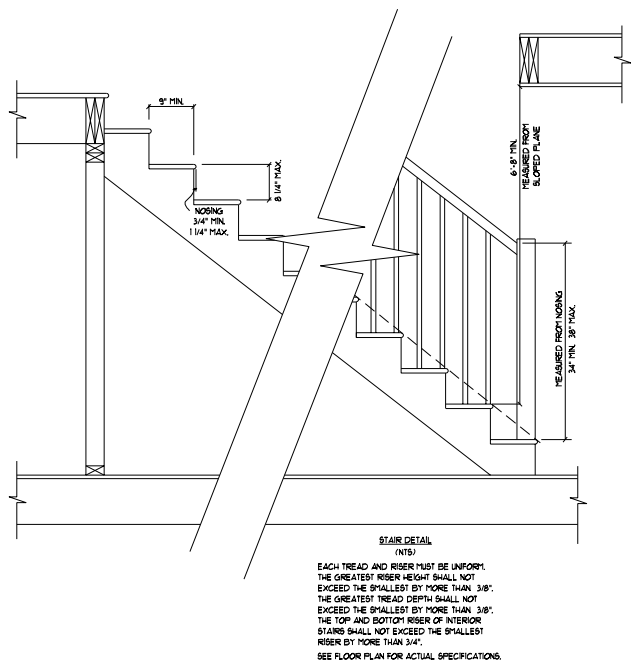
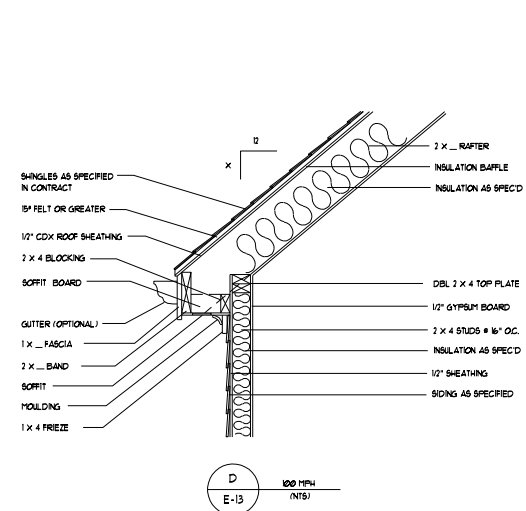
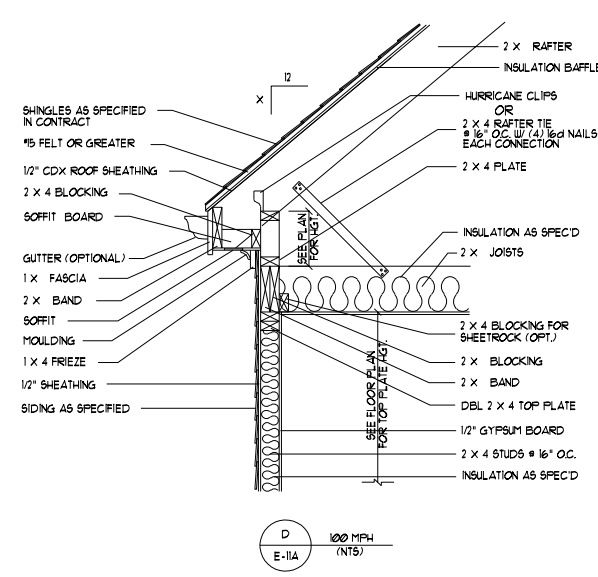
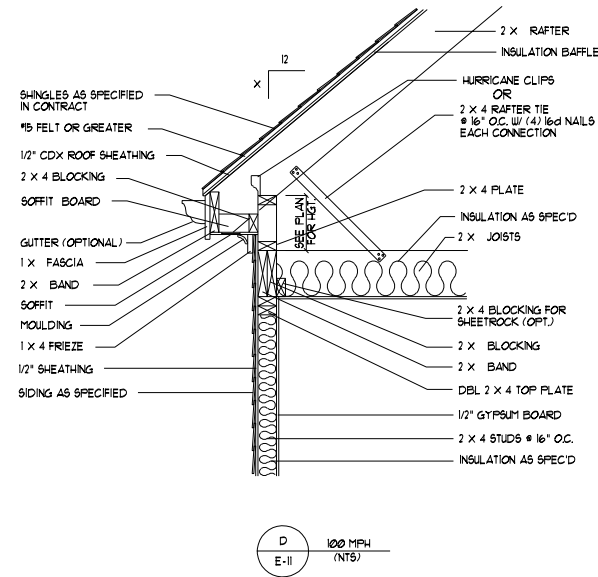
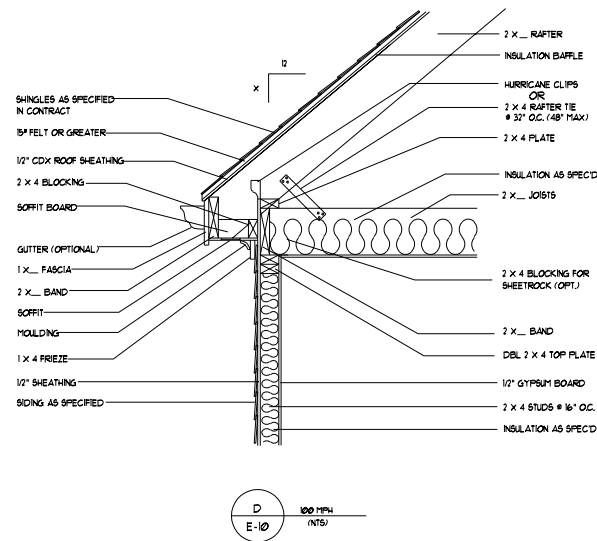
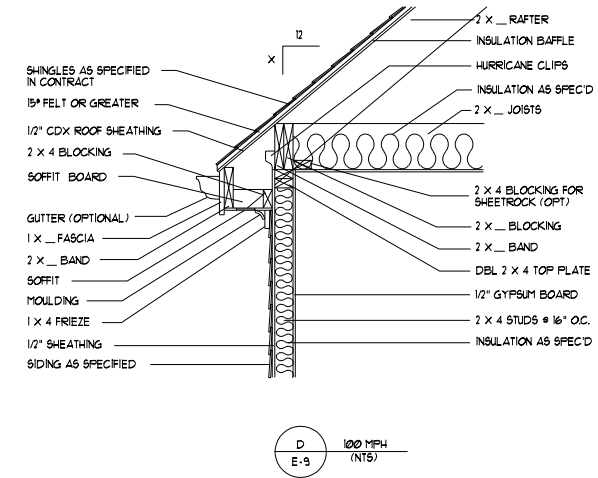
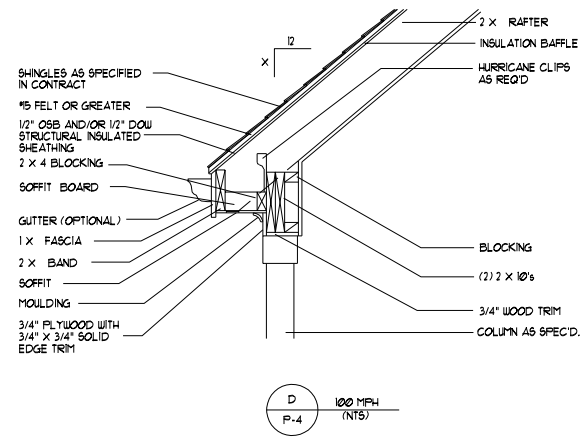
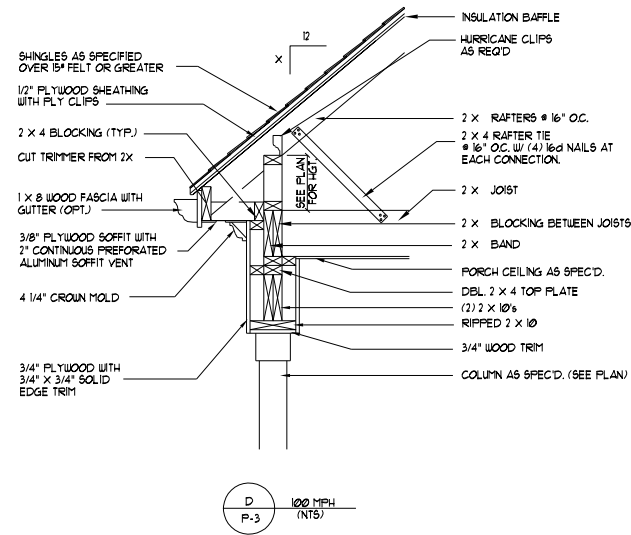
907 GARAGE 'WING WALL' REINFORCING
SD PER IRC FIGURE R602.10.4.3



905B CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION
SD DETAIL AND APPLICATION BASED ON NRC FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION

906 CS-PF: END CONDITION DETAIL
SD (FOR USE WITH SINGLE CS-PF CONDITION) DETAIL AND APPLICATION BASED ON NRC FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPs, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. ALL REQUIREMENTS FOR PROFESSIONAL CERTIFICATION SHALL BE PROVIDED BY THE APPROPRIATE PROFESSIONAL. SOUTHERN ENGINEERS, P.A. CERTIFIES ONLY THE STRUCTURAL COMPONENTS AS SPECIFICALLY STATED.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2018 NC RESIDENTIAL CODE, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT. ALL MEMBERS SHALL BE FRAMED ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.
- DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION)
 - ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, 10 PSF, L/360)
 - SLEEPING ROOMS: (30 PSF, 10 PSF, L/360)
 - ATTIC WITH PERMANENT STAIR: (40 PSF, 10 PSF, L/360)
 - ATTIC WITHOUT PERMANENT STAIR: (20 PSF, 10 PSF, L/360)
 - ATTIC WITHOUT STORAGE: (10 PSF, 10 PSF, L/240)
 - STAIRS: (40 PSF, 10 PSF, L/360)
 - EXTERIOR BALCONIES: (60 PSF, 10 PSF, L/360)
 - DECKS: (40 PSF, 10 PSF, L/360)
 - GUARDRAILS AND HANDRAILS: (200 LBS)
 - PASSENGER VEHICLE GARAGES: (30 PSF, 10 PSF, L/360)
 - FIRE ESCAPES: (40 PSF, 10 PSF, L/360)
 - SNOW: (20 PSF)
- WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS. SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS.
- SEE APPENDIX M (DCA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL LOADS.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (NO). AIR ENTRAINMENT PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP. CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF +30 TIMES THE DEPTH (D). CONTROL JOINTS SHALL BE SAWCUT TO A DEPTH OF 1/2. (I.E. 4" CONCRETE SLABS SHALL HAVE 1/4" DEEP CONTROL JOINTS SAWCUT IN SLAB ON A +10'-0" x +10'-0" GRID).
- ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.
- ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (NO). ALL TREATED LUMBER SHALL BE SYP #2. PLATE MATERIAL MAY BE SYP #3 OR SYP #3 (Fcp) = 425 PSI - MIN.
- L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.9x10⁶ PSI.
 - P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2400 PSI, Fv=240 PSI, E=2.0x10⁶ PSI.
 - L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55x10⁶ PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.
- REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60. LAP ALL REBAR SPLICES 30 BAR DIAMETERS.
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A325) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.
- BRICK LINTELS (WHEN REQUIRED) SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-0". SEE PLANS FOR SPANS OVER 9'-0". SEE ALSO SECTION R103.B.3 LINTELS.



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PROJECT FOR: ICG
 LOCATION: WAKE FOREST, NC
 LOT: #60
 SUBDIVISION: PERRY FARMS
 COUNTY: WAKE

JACKSON
 PLAN NAME
 B-3563-72GR
 PLAN I.D.
 3.28.22
 DATE

D-1B
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