

ELEVATION NOTES

BUILDING CODES
THIS PLAN HAS BEEN DESIGNED UNDER THE NC BUILDING CODES, 2018 RESIDENTIAL EDITION.

ICE GUARDS:
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (2:12) OR GREATER. FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (2:12) UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (4:12), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH SECTION R905.1.1.

VENTING CALCULATIONS

CRAWL SPACE VENTILATION
THE MIN. NET FREE AREA OF CRAWL VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQ. FT. FOR EACH 150 SQ. FT. OF CRAWL SPACE AREA.
2108 SQ. FT. CRAWL SPACE AREA / 150
14.05 SQ. FT. NET FREE AREA REQUIRED
*MAY BE REDUCED BY 50% W. VAPOR BARRIER

ATTIC VENTILATION
3394 SQ. FT. OF ATTIC / 300 = 11.3 SQ. FT. OF INLET AND OUTLET. VENTILATION MAY BE REDUCED 50% WHEN VENTILATORS ARE USED AT LEAST 3'-0" ABOVE THE CORNICE VENTS.

MATERIAL LEGEND

- ASPHALT SHINGLES
- STANDING SEAM METAL ROOF
- HORIZONTAL LAP SIDING
- BOARD & BATTEN SIDING @ 16"O.C.
- SHAKE SIDING
- BRICK VENEER
- SYNTHETIC STONE VENEER
- PARGED BLOCK FOUNDATION

FRONT ELEVATION

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

LEFT ELEVATION

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

Lilium Homes
Cedar Knolls
Lot #19

Sheet Title:
Exterior
Elevations

REVISIONS	
NUMBER	DATE

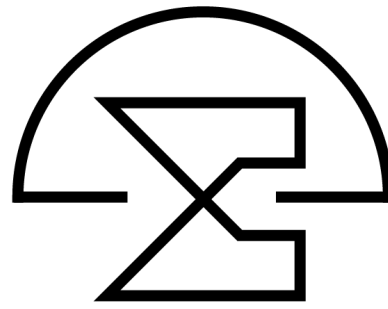
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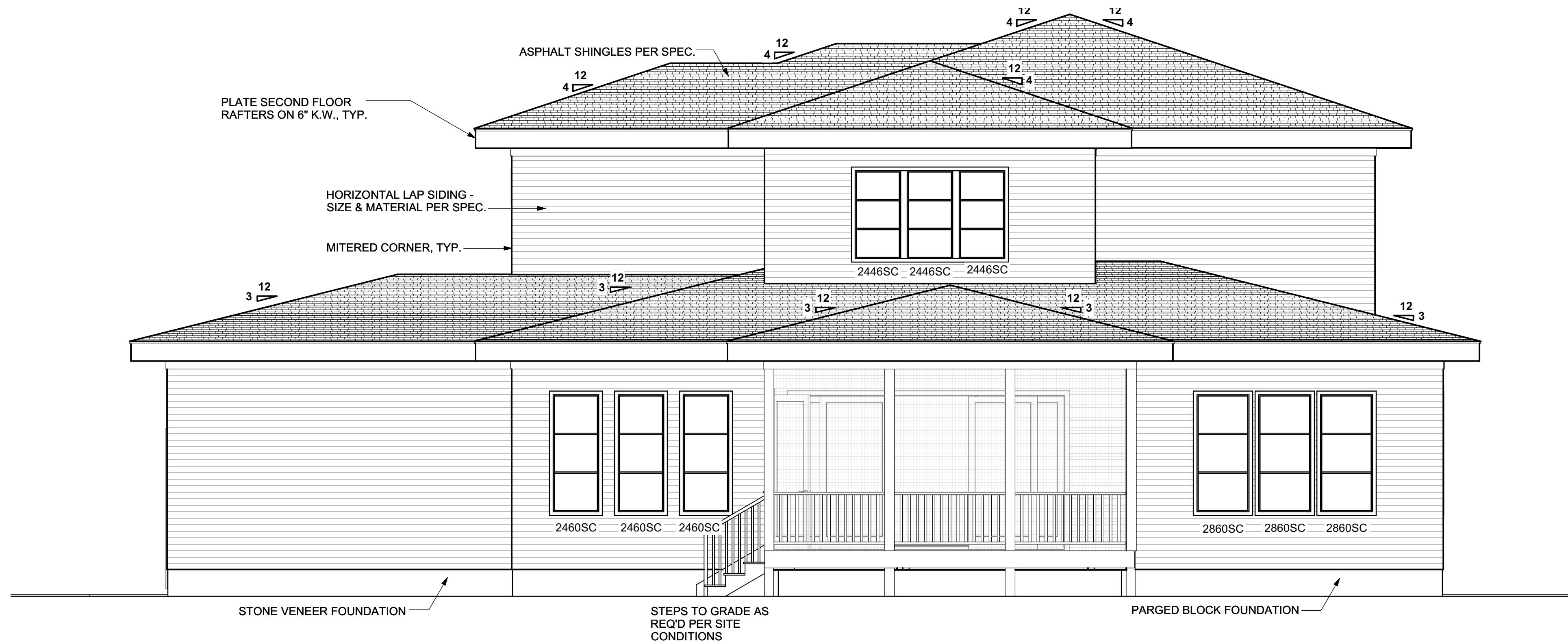
Plan Number
M229-24
Sheet No. A-1

Drawn By: TV
Date: 10/7/2024

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Wake Forest, NC 27587
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REAR ELEVATION

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

ELEVATION NOTES

BUILDING CODES

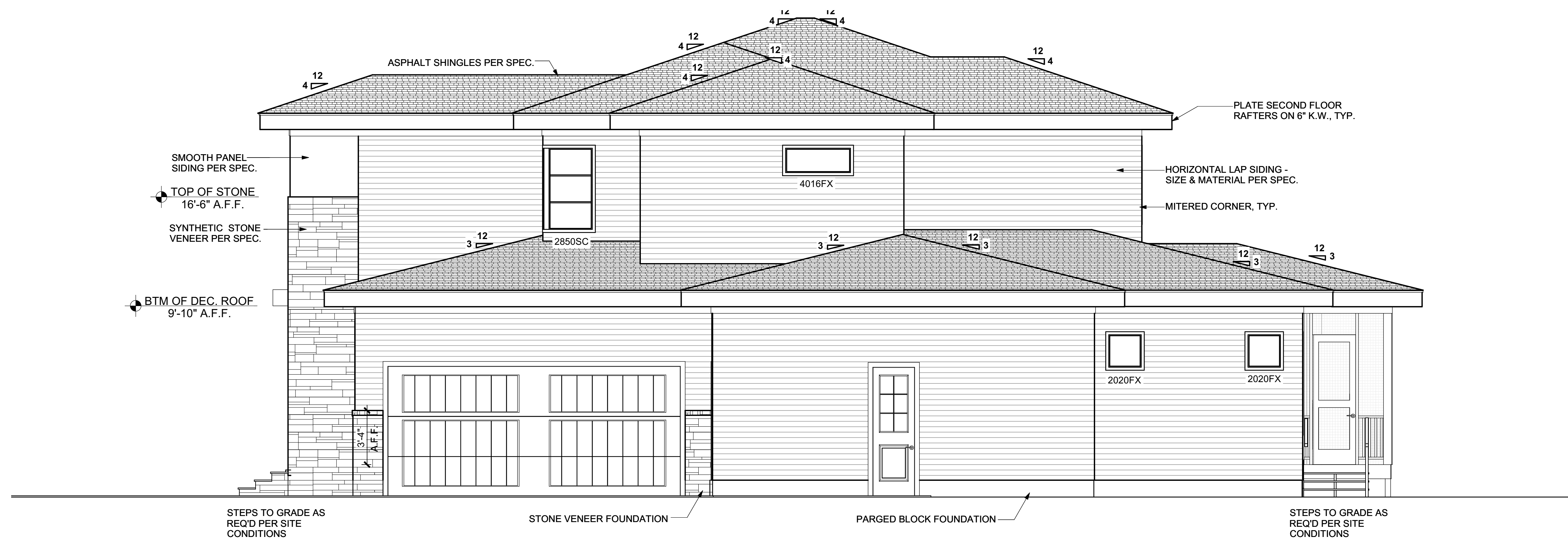
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- SYNTHETIC STONE VENEER
- PARGED BLOCK FOUNDATION



RIGHT ELEVATION

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

Lilium Homes
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Lot #19

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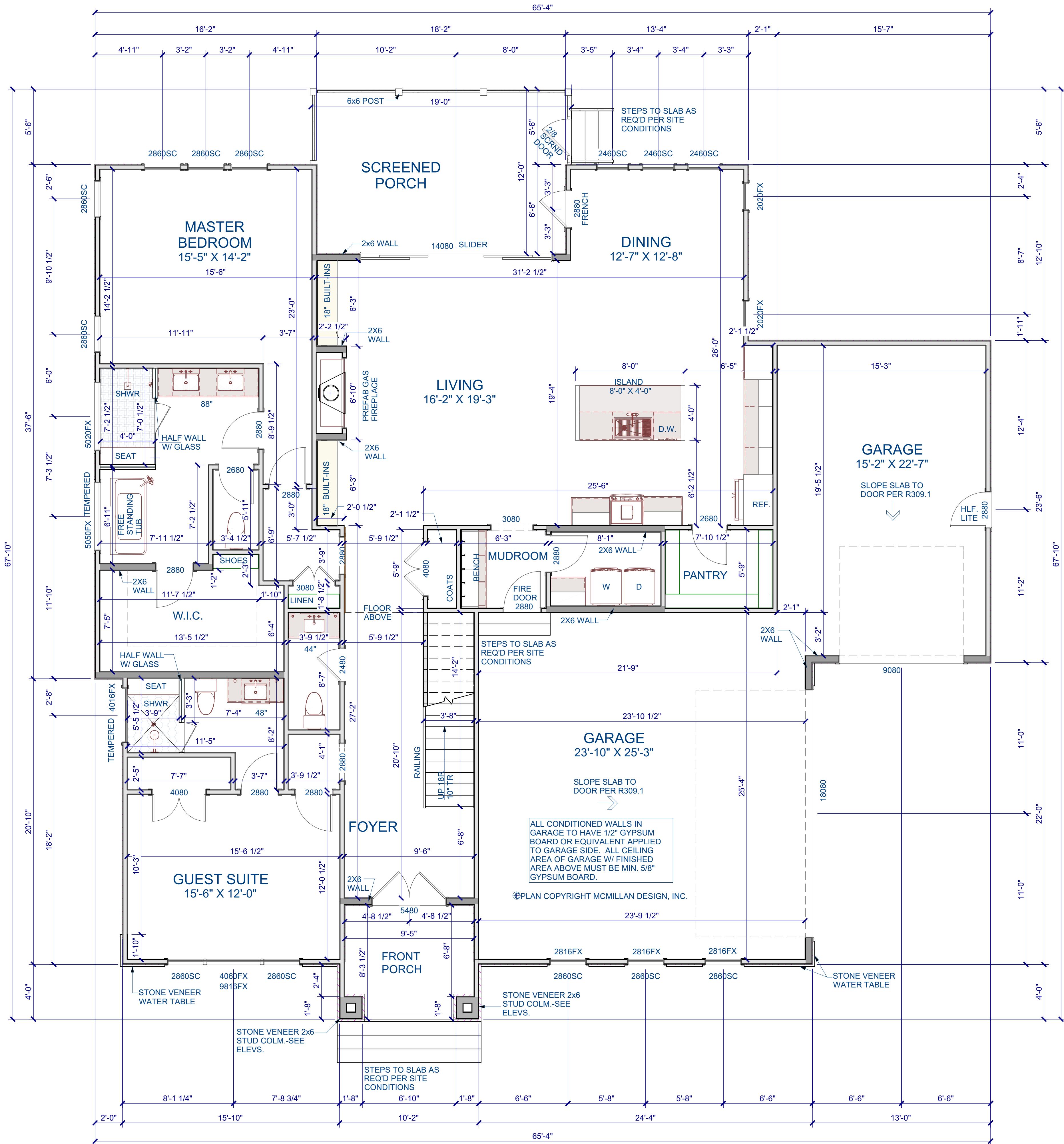
Plan Number
M229-24
A-2

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GENERAL NOTES

WALLS
ALL WALLS ARE DRAWN 3.5" WIDE (2X4) OR 5.5" WIDE (2X6) U.N.O.
ANGLED WALL ARE DRAWN @45° U.N.O.
EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING. INTERIOR
DIMENSIONS ARE TO FACE OF STUD.

SMOKE DETECTORS
LOCATION AND NUMBER OF DETECTORS SHALL CONFORM TO NEC.

EGRESS
ALL BEDROOMS MUST HAVE AT LEAST ONE WINDOW WHICH
CONFORMS TO R-310 OF THE N.C. BLDG. CODE. IT IS THE
CONTRACTOR'S RESPONSIBILITY TO VERIFY CHOSEN WINDOWS
MEET EGRESS REQUIREMENTS AS MANUFACTURERS VARY.

ATTIC ACCESS
MIN. ATTIC ACCESS SHALL BE PROVIDED BY BUILDER AND LOCATED
ON SITE.

WALL/CEILING HEIGHT
WALL AND CEILING HEIGHT NOTES ARE BASED ON NOMINAL WALL
SIZE. KNEE WALL HEIGHT LABELS FOR WALLS UNDER RAFTERS
ASSUME AN EXTRA 2' FOR FURRING (IN HEATED SPACES) FOR
INSULATION. THE WALL HEIGHT REFERS TO THE HGT. FROM THE
FLOOR DECKING TO THE BOTTOM OF THE FURRING.

WINDOW NOTE LEGEND

- DH DOUBLE HUNG
- SH SINGLE HUNG
- FX FIXED
- SC SINGLE CASEMENT
- DC DOUBLE CASEMENT
- TC TRIPLE CASEMENT

Square Footage	
Heated Square Footage	
First Floor	2,108
Second Floor	1,004
Total Heated	3,112
Unfinished	
Front Porch	82
Screened Porch	224
Three Car Garage	980
Total Unfinished	1,286
Unfin. Storage and Options	
Walk-in Storage #1	184
Total Storage / Options	184

FIRST FLOOR PLAN

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

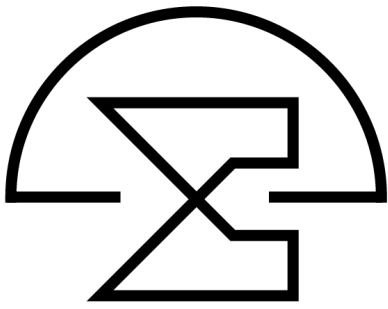
Lilium Homes
Cedar Knolls
Lot #19

First Floor Plan

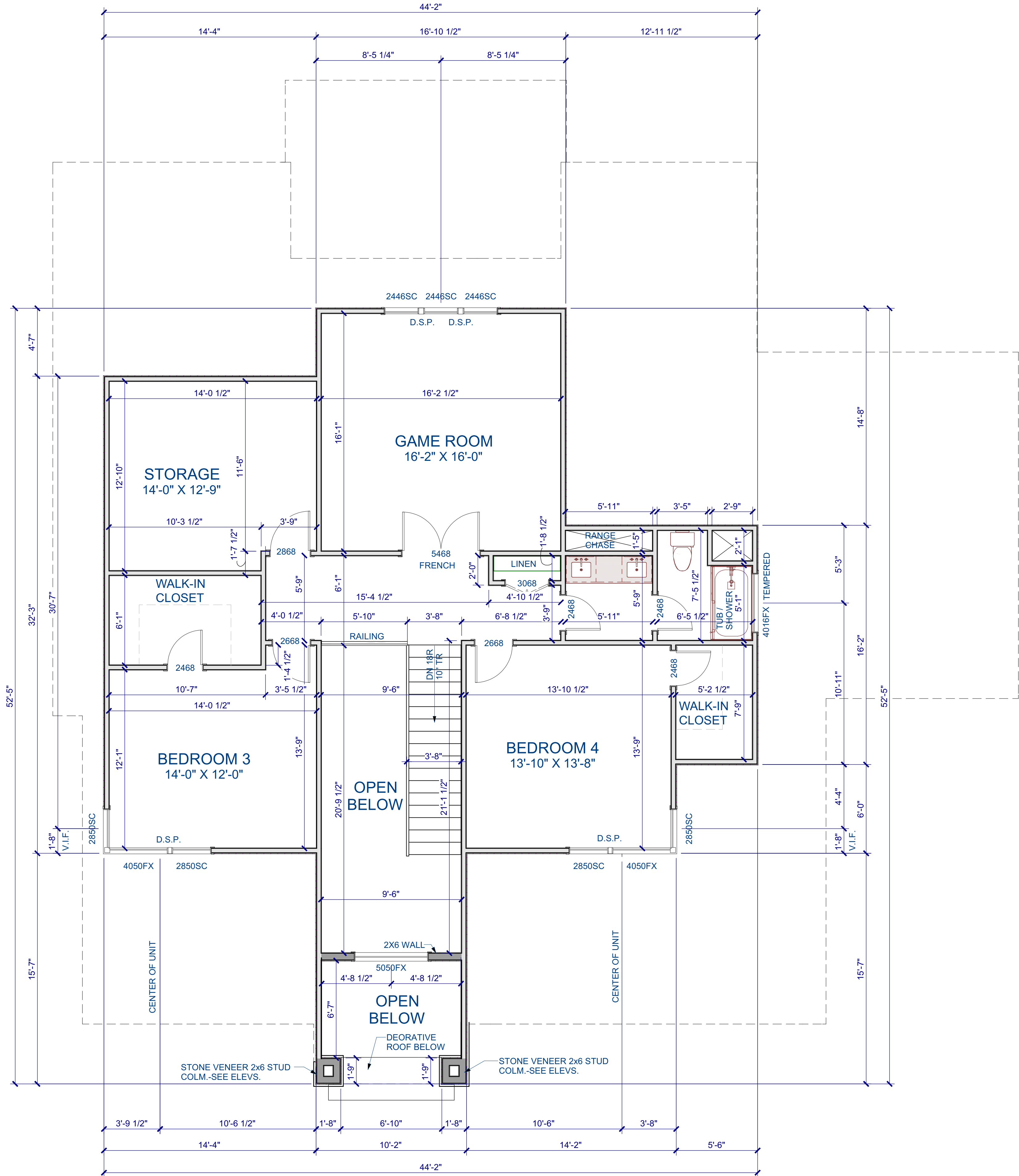
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WINDOW NOTE LEGEND

DH DOUBLE HUNG
SH SINGLE HUNG
FX FIXED
SC SINGLE CASEMENT
DC DOUBLE CASEMENT
TC TRIPLE CASEMENT

SECOND FLOOR PLAN

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

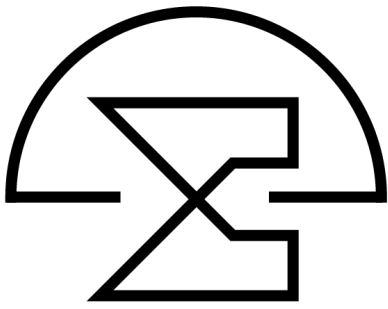
Lilium Homes
Cedar Knolls
Lot #19

Sheet Title:
Second Floor Plan

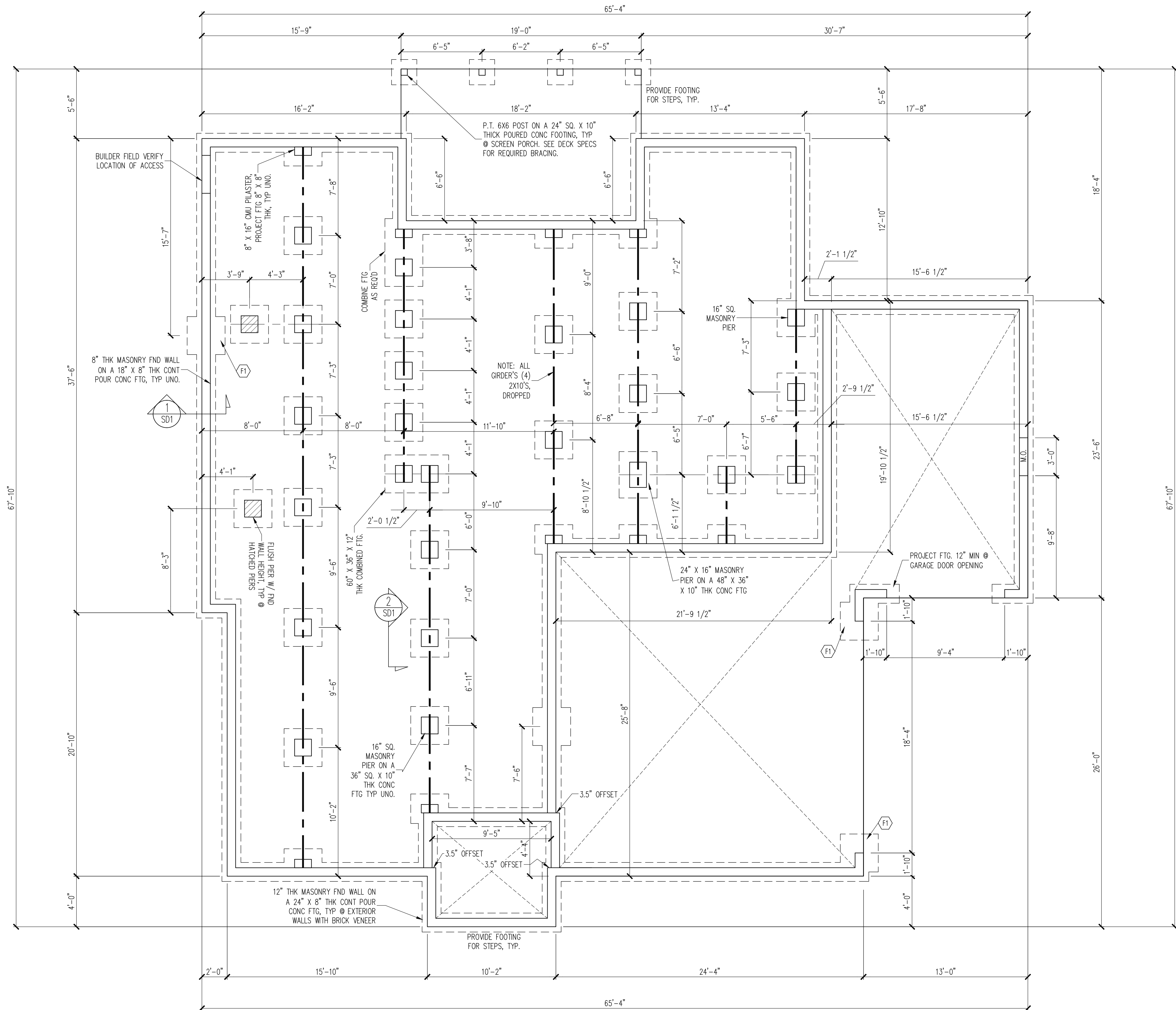
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CONSTRUCTION SPECIFICATIONS
INSTANT REFERENCES

REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:

PART 1.01: CURRENT GOVERNING CODE

PART 14: STUD SUPPORT FOR BEAMS

PART 16.02: GENERAL WALL BRACING NOTES

PART 17: KING STUDS FOR EXTERIOR WALLS

SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS

FOUNDATION SCHEDULE

F1 ENLARGE FTG TO 12" THICK X 36" SQ. POURED CONC FTG, SOLID MASONRY ABV

NOTES:
-HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSBC, LATEST EDITION. REINFORCEMENT AND GROUTING SHALL BE DETERMINED BY FINAL SITE CONDITIONS.
-BUILDER TO FIELD LOCATE CRAWLSPACE ACCESS OPENING WITH MINIMUM DIMENSIONS OF 18X24. DO NOT LOCATE ACCESS OPENING BELOW POINT LOADS FROM ABOVE WITHOUT ENGINEER APPROVAL.

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

Engineering

STRUCTURAL ENGINEERS

License No. C3870

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Raleigh, North Carolina 27609

ASSOCIATES, P.A.

Seal

CARDINAL ENGINEERING, P.A.
R. J. S. UNGER
035020
02/22/2024

LILJUM HOMES

STRUCTURAL ADDENDUM

SCOPE: 19 CEDAR KNOLLS

LOC:

ENG: RJS/CR

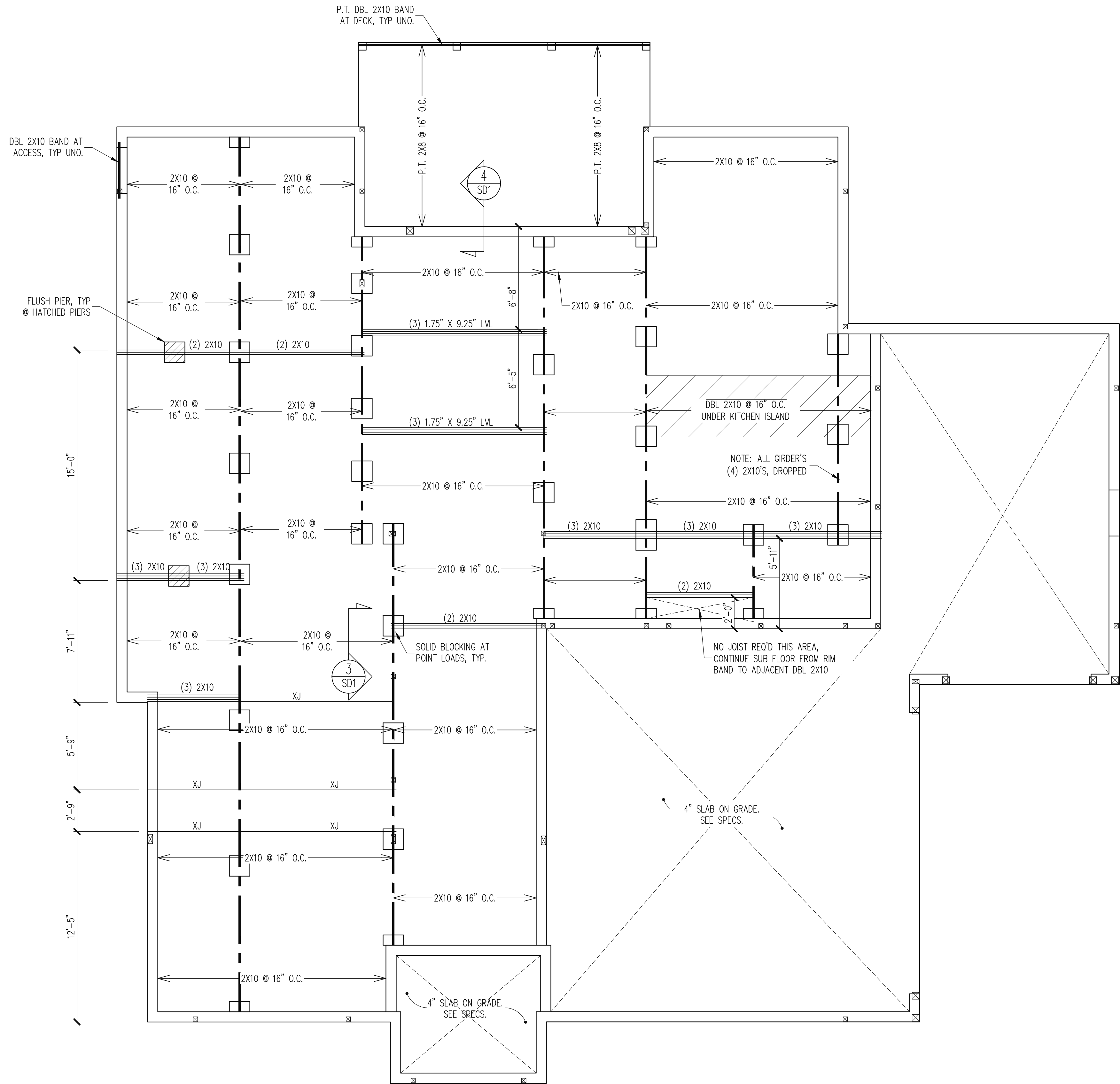
DATE: 10/2/2024

PROJECT NO. 24-21-263

SHEET NO. S1

1 of 7

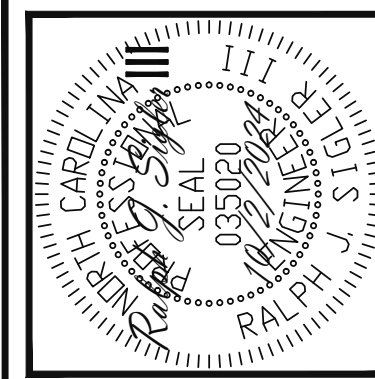
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CRAWL SPACE FRAMING PLAN

1/4" = 1'-0"

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 318 W Millbrook Rd. Unit 201
 Raleigh, North Carolina 27609
 Phone (919) 844-1661

SCOPE:	LILJUM HOMES		
	STRUCTURAL ADDENDUM		
LOC:	REV #	REF PROJ #	DATE
	19 CEDAR KNOLLS		

ENG: RJS/CR
 DATE: 10/2/2024

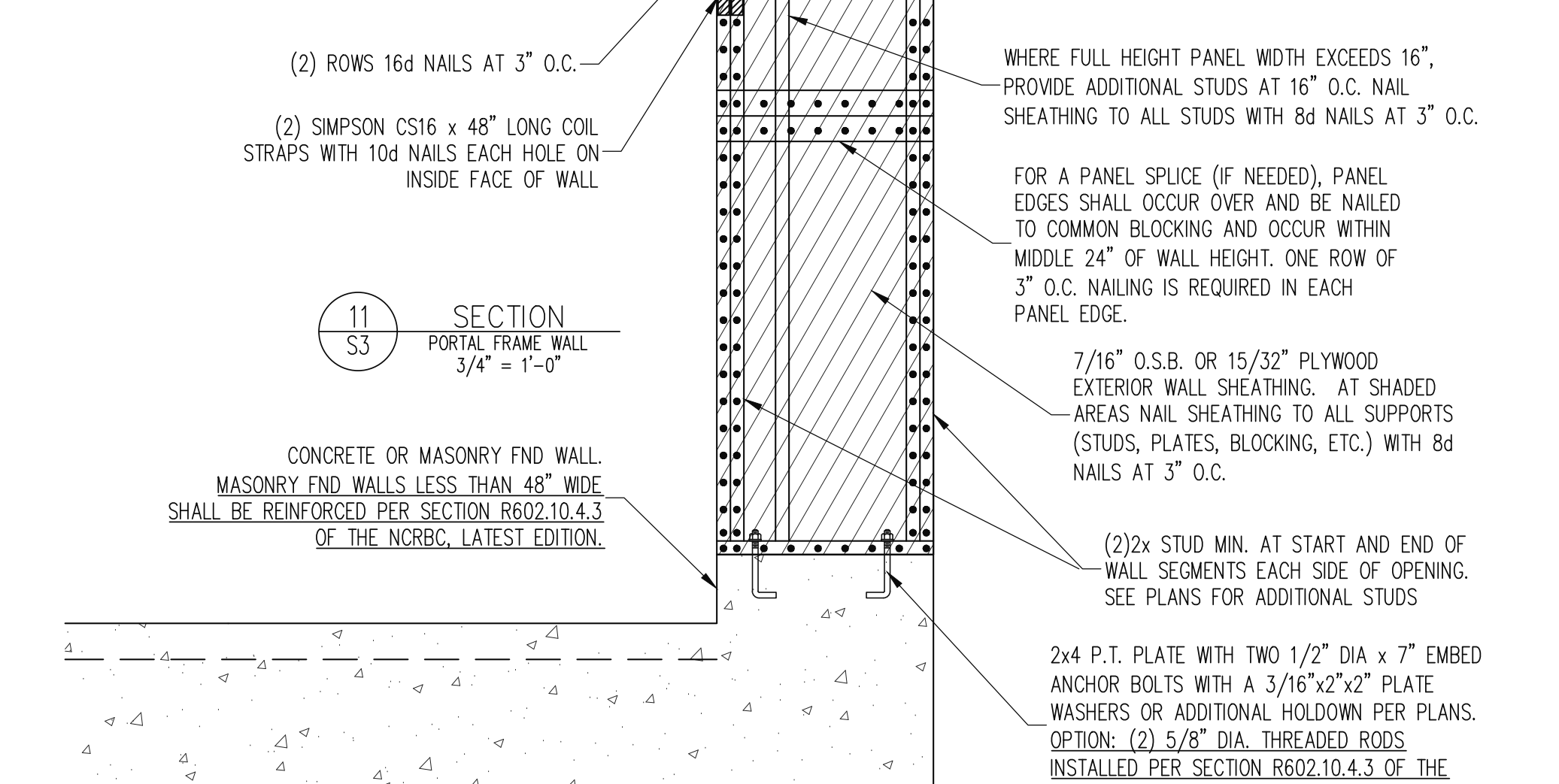
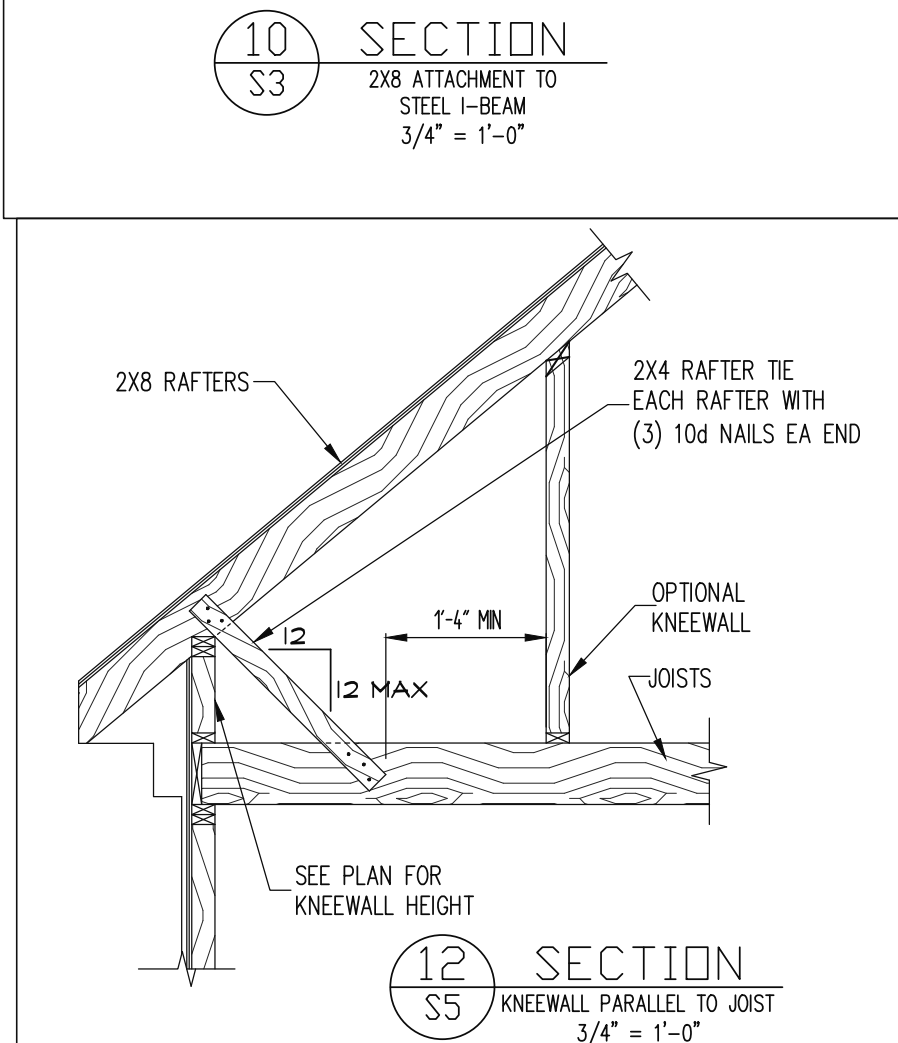
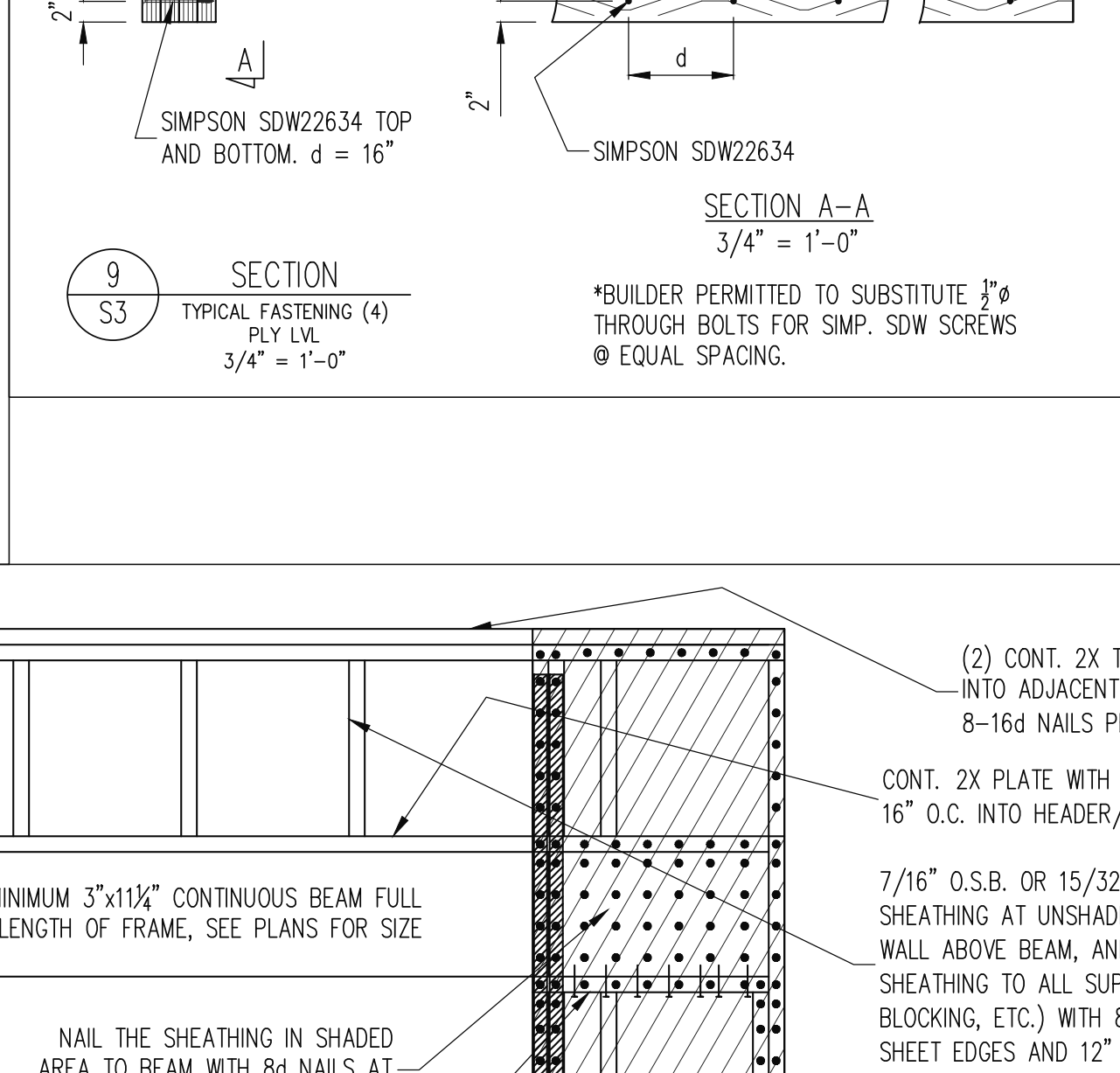
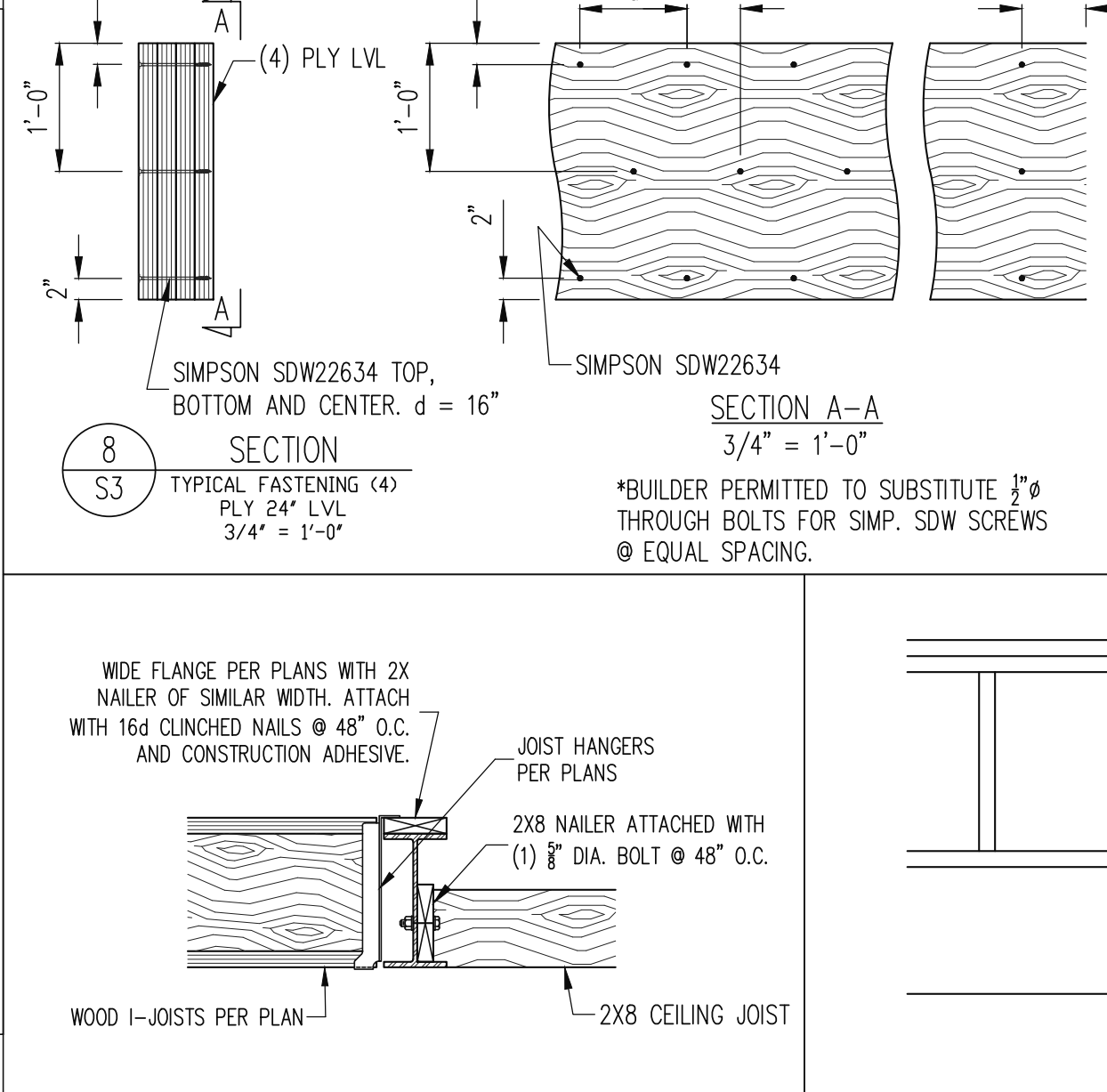
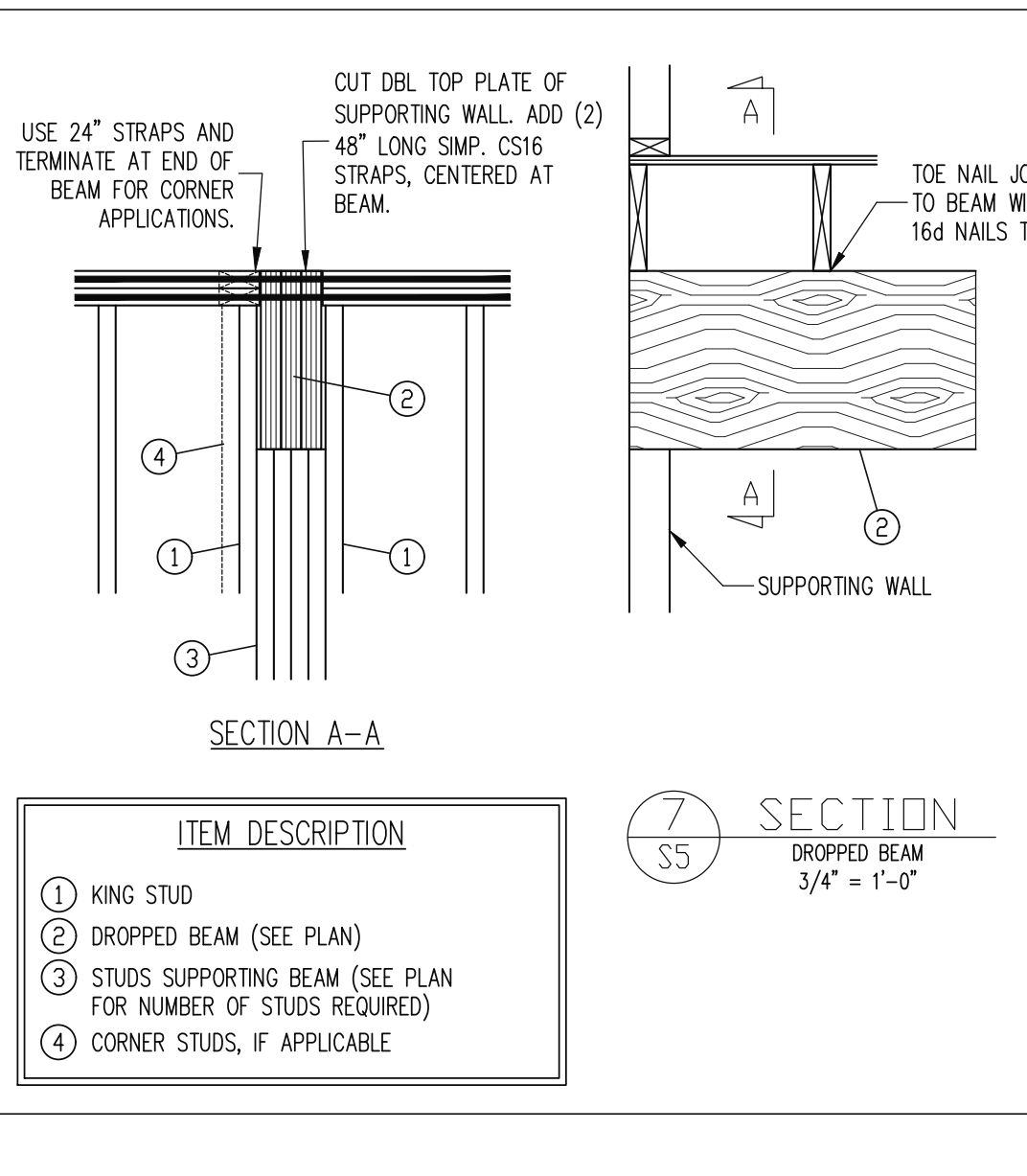
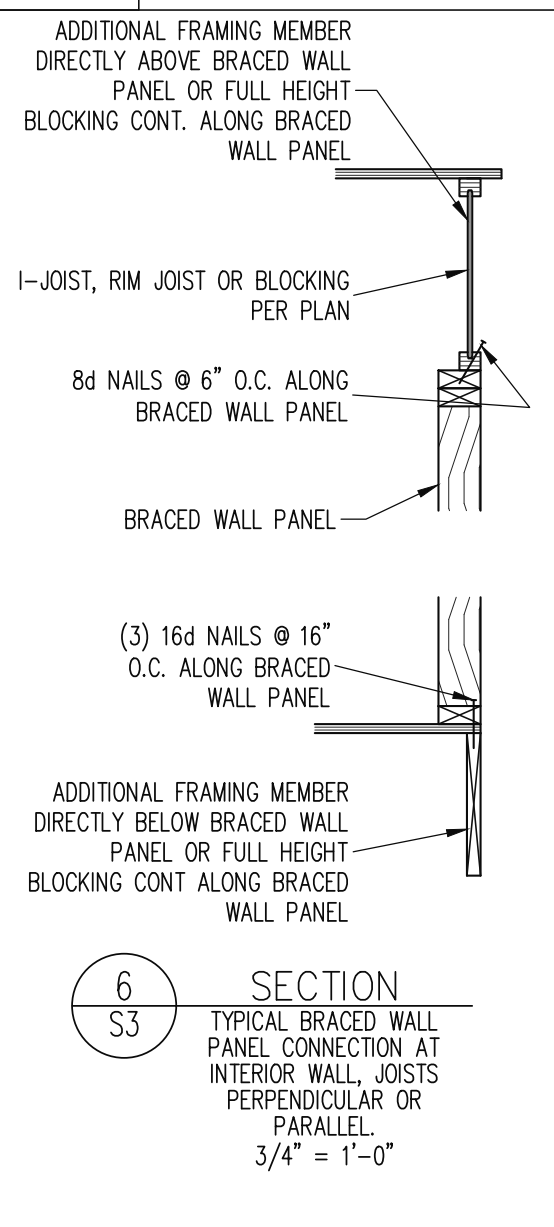
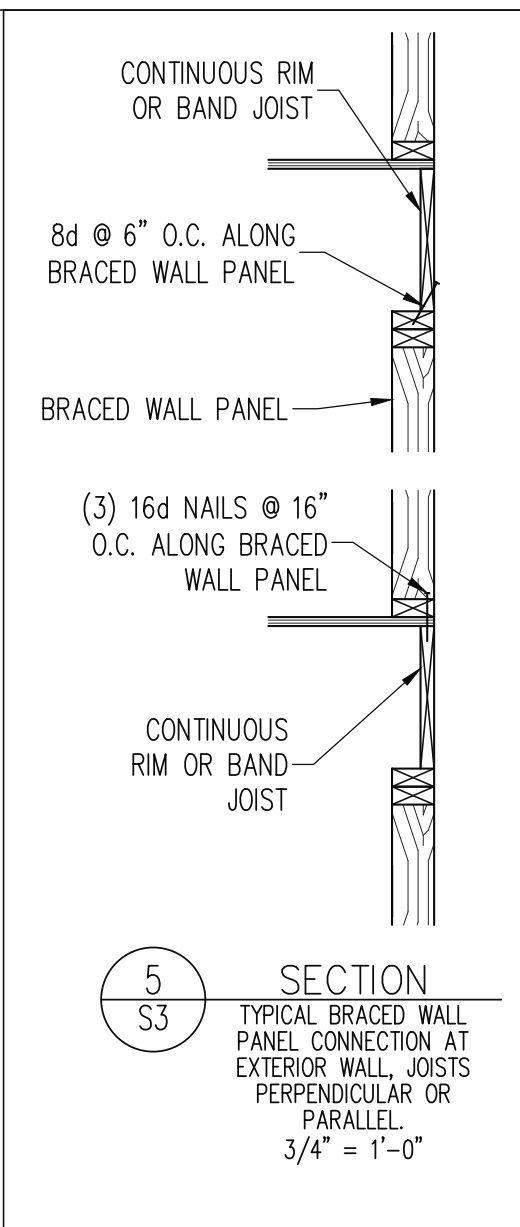
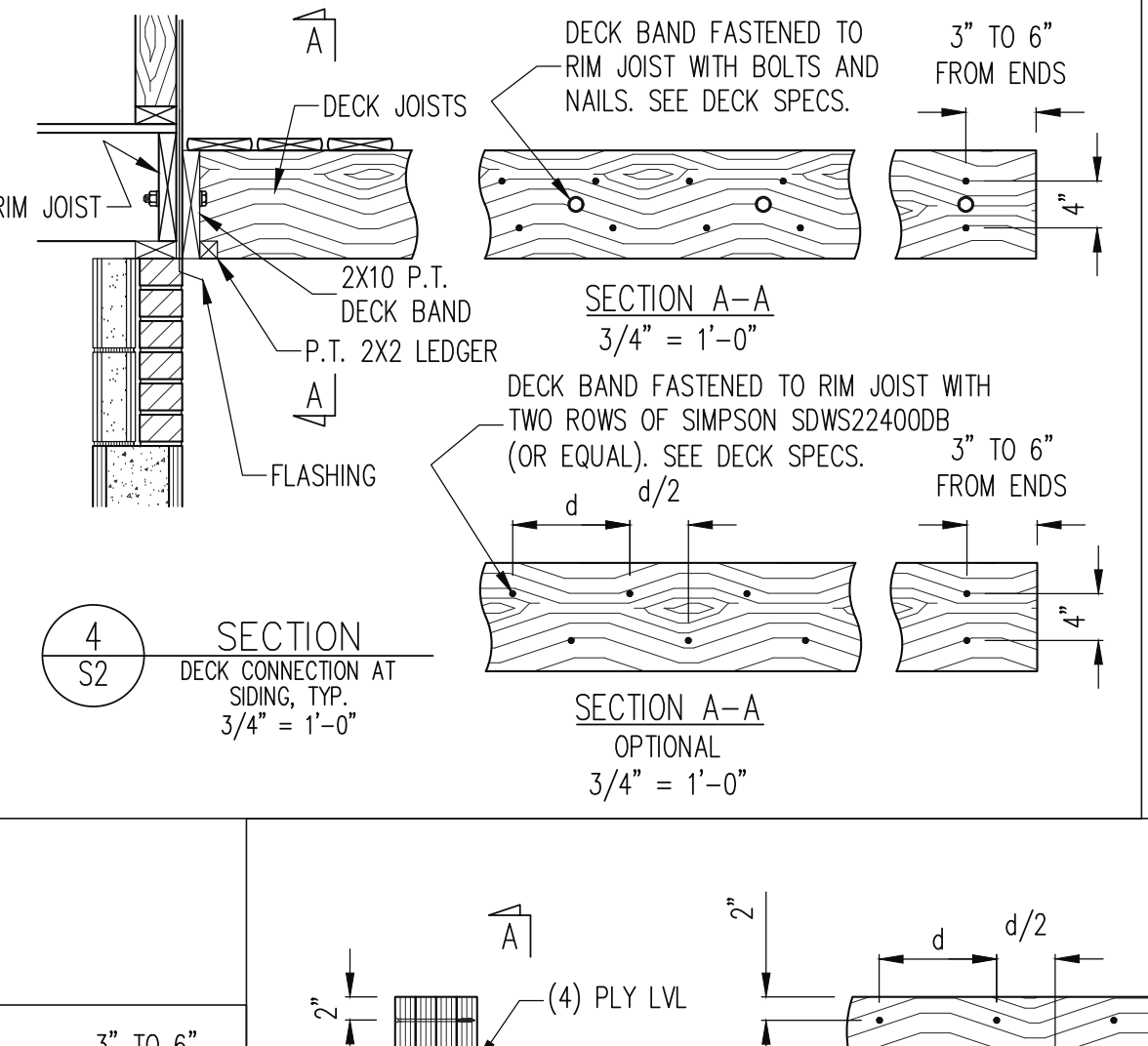
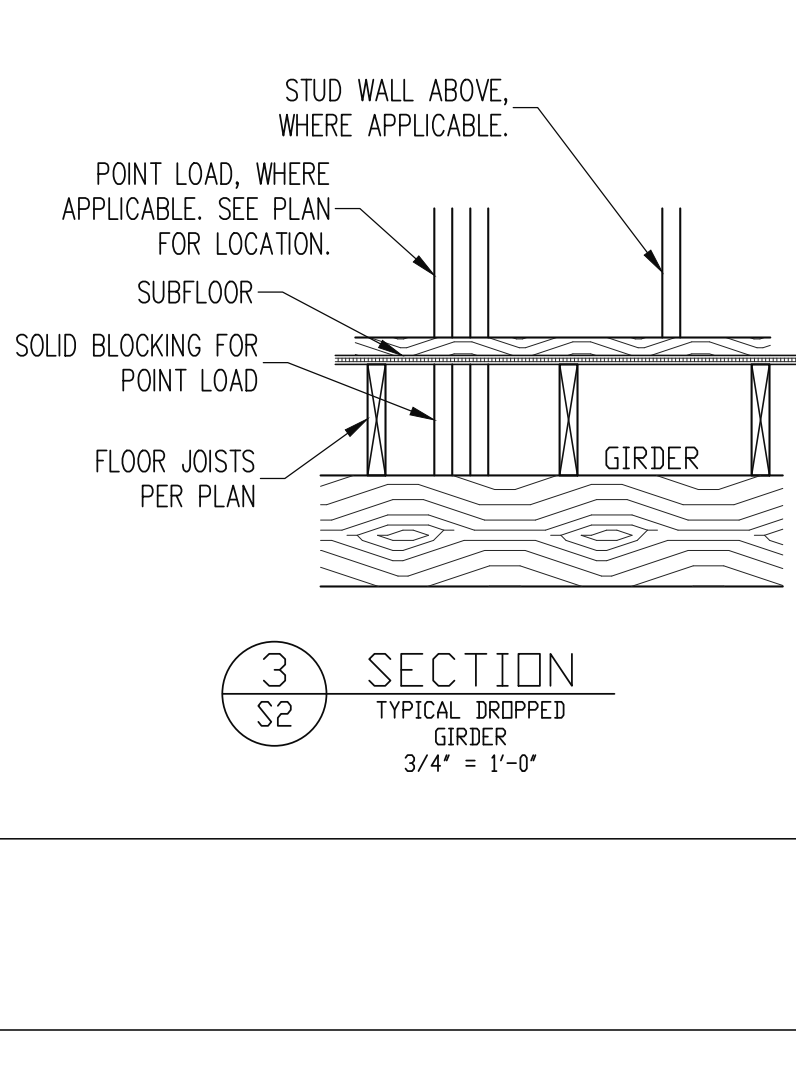
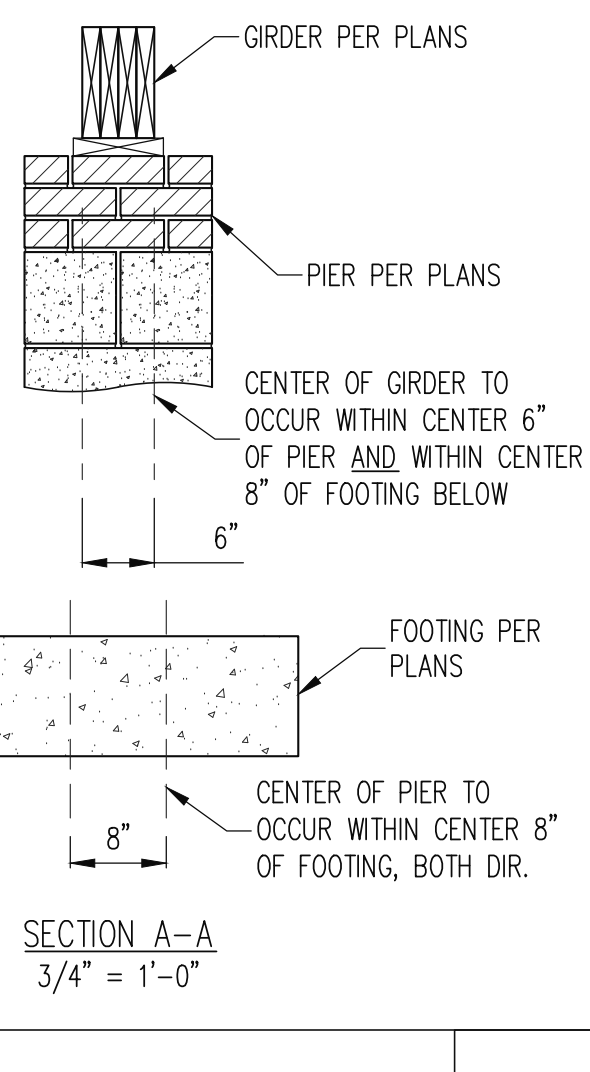
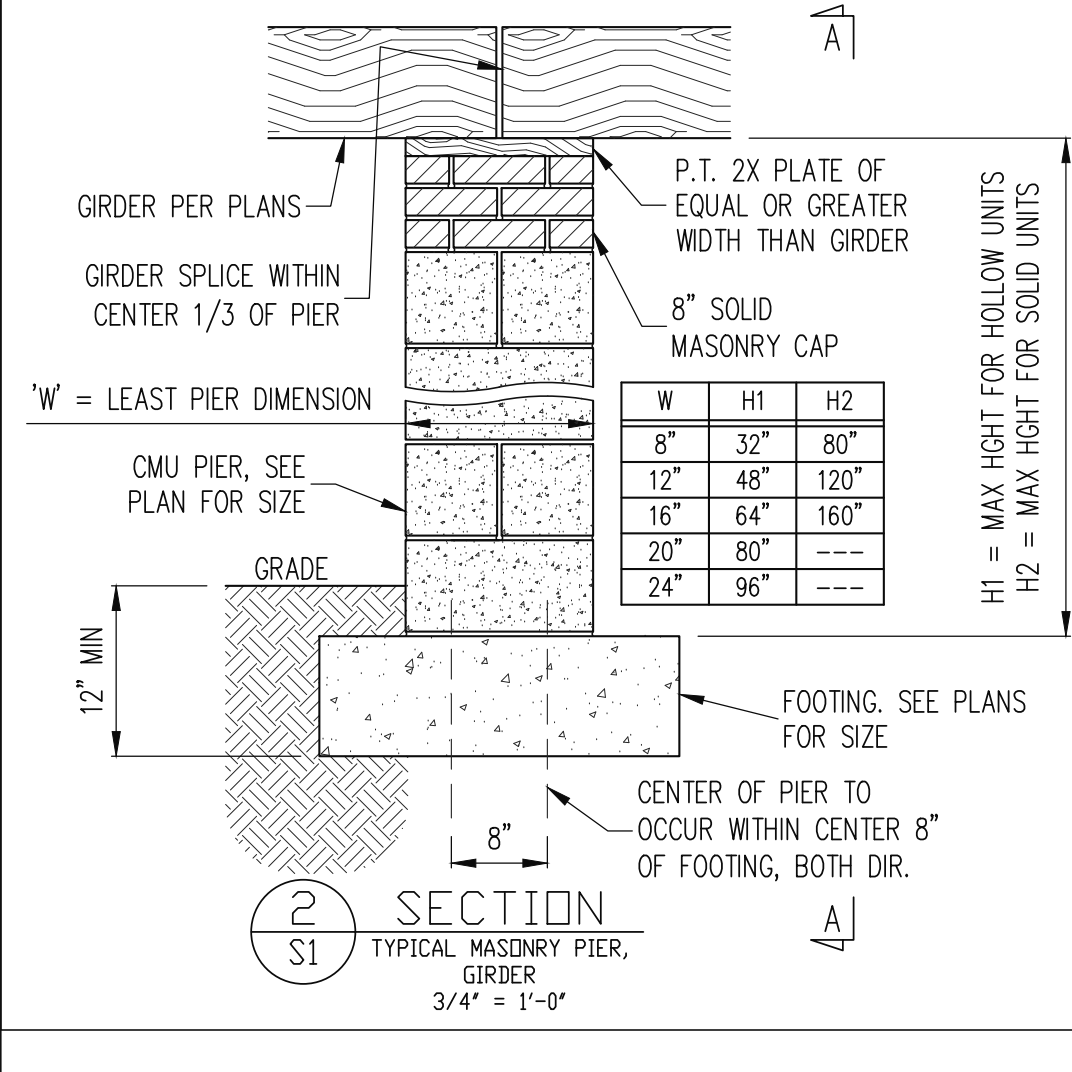
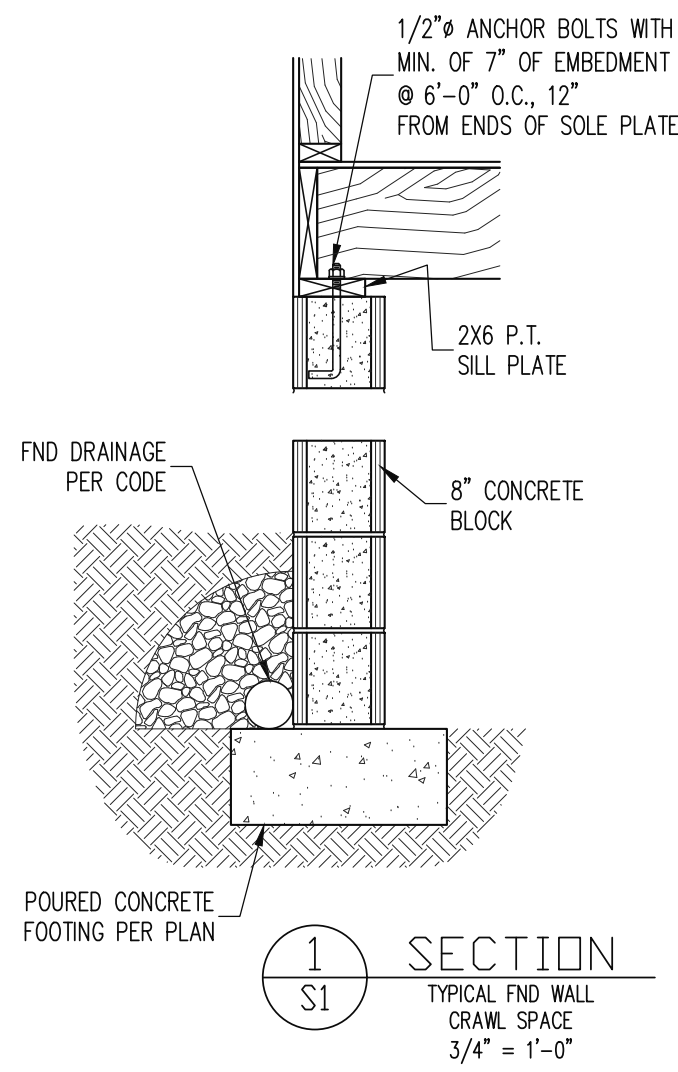
PLAN
 M229-24

PROJECT NO.
 24-21-263

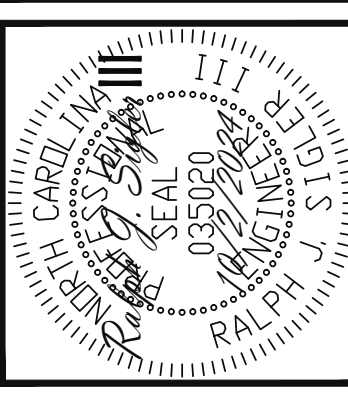
SHEET NO.
 S2

2 of 7

SHEET NO.
S3
3 of 7



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Phone (919) 844-1661
Tech
ASSOCIATES, P.A.

SCOPE:	LILUUM HOMES		
	STRUCTURAL ADDENDUM		
LOC:	19 CEDAR KNOLLS	REV #	REF PROJ #
		DATE	

ENG: RJS/CR
DATE: 10/2/2024

PLAN
M229-24

PROJECT NO.
24-21-263

SHEET NO.
SD1
6 of 7

ALLOWABLE I-JOIST SUBSTITUTION

NOTE: MAINTAIN JOIST DEPTH, DIRECTION, AND SPACING SPECIFIED ON PLANS.

MANUFACTURER	DEPTH	SERIES	SIMPSON FACE MOUNT HGR	SIMPSON TOP FLANGE HGR
BLUELINX	16"	BLJ 40	IUS2.56/16	ITS2.56/16
BLUELINX	16"	BLJ 60	IUS2.56/16	ITS2.56/16
BOISE CASCADE	16"	BO 5000s	IUS2.06/16	ITS2.06/16
BOISE CASCADE	16"	BO 6000S	IUS2.37/16	ITS2.37/16
INTERNATIONAL BEAMS	16"	IB 600	IUS2.56/16	ITS2.56/16
LP CORP	16"	LPI 20+	IUS2.56/16	ITS2.56/16
NORDIC	16"	NI 40X	IUS2.56/16	ITS2.56/16
ROSEBURG	16"	RFPI 60S	IUS2.56/16	ITS2.56/16
WEYERHAEUSER	16"	TJL 210	IUS2.06/16	ITS2.06/16
BOISE CASCADE	16"	BO 60s	IUS2.37/16	ITS2.37/16
LP CORP	16"	LP 36	IUS2.37/16	ITS2.37/16
LP CORP	16"	LP 42+	IUS2.56/16	ITS2.56/16
NORDIC	16"	NI 70	IUS2.56/16	ITS2.56/16
ROSEBURG	16"	RFPI 70	IUS2.37/16	ITS2.37/16
WEYERHAEUSER	16"	TJL 360	IUS2.37/16	ITS2.37/16
WEYERHAEUSER	16"	ED-30	IUS2.37/16	ITS2.73/16

JOISTS NOT LISTED IN THE ABOVE TABLE MAY BE USED PROVIDED THEY MEET OR EXCEED THE PROPERTIES OF THOSE LISTED. SUBSTITUTE USP BRAND HANGERS WITH EQUIVALENT VALUES AS DESIRED.

NOTES

THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE FOLLOWING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION:

1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR

2) THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION

ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE RESPONSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO ENSURE THAT ANY REVISIONS ISSUED BY THE EOR ARE PROMPTLY DISTRIBUTED TO THE SUBCONTRACTORS

THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING.

ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL TRUSS DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW

ABBREVIATIONS

ABV ABOVE	FND FOUNDATION	TJ TRIPLE JOIST
B BOTH	FTG FOOTING	TYP TYPICAL
B.E. BOTH ENDS	HDG HOT DIPPED	TRPL TRIPLE
BWM BETWEEN	HGR HANGER	TSP TRIPLE STUD POCKET
CP CAST IN PLACE	LVL LAMINATED VENEER LUMBER	UNO UNLESS NOTED OTHERWISE
CONC CONCRETE	NTS NOT TO SCALE	XJ EXTRA JOIST
CS CONTINUOUS SHEATHING	O.C. ON CENTER	
DIA DIAMETER	PARALLEL STRAND LUMBER	
DBL DOUBLE	PT PRESSURE TREATED	
DJ DOUBLE JOIST	QJ QUAD JOIST	
DSP DBL STUD POCKET	SP SPACE (OR SPACING)	
EQ EQUAL	SPP SINGLE STUD POCKET	
EA EACH	SQ SQUARE	
FLG FLANGE		
FL PL FLUTCH PLATE		
FLR FLOOR		

CONSTRUCTION SPECIFICATIONS

PART 1: GENERAL

1.01 CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.

1.02 DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.

1.05 METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

PART 2: DESIGN LOADS

2.01 DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:

USE	LIVE LOAD (PSF)	DEAD LOAD (PSF)
BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES	40	10
GARAGES (PASSENGER CARS ONLY)	50	---
ATTICS (NO STORAGE, LESS THAN 5' HEADROOM)	10	10
ATTICS (WITH STORAGE)	20	10
ROOF	20	10 (15 FOR VAULTS)

NOTES: - INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED LIVE LOAD OF 40 PSF OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA OF 4 SQ. WHICHEVER PRODUCES THE GREATER STRESS.

- BUILDER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR ROOF FINISHES SUCH AS TILE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER THESE CONDITIONS

2.02 INTERIOR WALLS: 5 PSF LATERAL.

2.03 BASIC WIND DESIGN VELOCITY OF 120 MPH.

2.04 SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).

PART 3: STRUCTURAL STEEL

3.01 WIDE FLANGE BEAMS AND TEE SECTIONS SHALL CONFORM TO ASTM A992 MINIMUM GRADE

3.02 SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500 GRADE B MINIMUM GRADE.

3.03 STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B, TYPE S, MINIMUM GRADE

3.04 ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 MINIMUM GRADE

3.05 STRUCTURAL STEEL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

PART 4: WELDING

4.01 WELDING ELECTRODES SHALL BE E70XX AND ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER

PART 5: CONCRETE AND SLABS ON GRADE

5.01 CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 4-6% AIR ENTRAINMENT, FOR EXTERIOR CONCRETE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO. ALL ITEMS NOTED AS 'CONCRETE' ARE TO BE CAST IN PLACE, TYP UNO.

5.02 REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.

5.03 SLABS ON GRADE, IF ANY, SHALL BE CAST IN PLACE, CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LBS/CU YD. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 4" MIN GRANULAR FILL ON SOIL WITH 90% MIN STANDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT IN ENCLOSED AREAS

PART 6: REBAR AND WIRE REINFORCEMENT

6.01 REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO

6.02 LAP SPLICES SHALL BE CLASS B AS DEFINED BY ACI 318, TYP UNO

6.03 WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064.

PART 7: MASONRY

7.01 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT,

FM = 1,500 PSI MIN

7.02 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW

7.03 MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI.

7.04 MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530

7.05 LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS FOR CONTINUOUS WALL APPLICATIONS

PART 8: BOLTS AND LAG SCREWS

8.01 BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR THE NUT / BOLT HEAD WHEN BOLTING WOOD MEMBERS. HOLES FOR BOLTS SHALL BE AISC STANDARD HOLES UNO

8.02 LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981. PILOT HOLES SHALL BE USED FOR LAG SCREW INSTALLATION AND SHALL BE BORED ACCORDING TO NDS SPECIFICATIONS. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR SCREW HEAD

8.03 ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO

PART 9: DRIVEN FASTENERS

9.01 NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667- 05. NAILS ARE TO BE COMMON WIRE OR BOX

PART 10: DIMENSIONAL LUMBER

10.01 SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR OR SYP #2 FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC. MINIMUM ALLOWABLE DESIGN PROPERTIES ARE AS FOLLOWS:
E= 1,400,000 PSI, F_c temp = 425 PSI, F_v = 285 PSI, SPECIFIC GRAVITY = 0.42 MIN
F_b = 875 PSI FOR 2X4, 2X6, 2X8, F_b = 800 PSI FOR 2X10'S, 750 PSI FOR 2X12'S

PART 11: ENGINEERED LUMBER

11.01 LVL OR PSL MINIMUM ALLOWABLE DESIGN PROPERTIES ARE AS FOLLOWS:
E= 1,900,000 PSI, F_b = 2600 PSI, F_v = 285 PSI, F_c temp = 750 PSI
LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS:
E= 1.3 X 10E6 PSI, F_b = 1700 PSI, F_v = 400 PSI, F_c temp = 680 PSI

11.02 LVL OR PSL MEMBERS MAY BE RIPPED FROM DEEPER MEMBERS TO MATCH THE MEMBER DEPTH SPECIFIED IN THE PLANS

PART 12: PRESSURE TREATED LUMBER

12.01 LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AMPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH ANPA STANDARD C-2 OR BY ANY METHOD GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(a)

PART 13: STEEL FLUTCH PLATE BEAMS

13.01 FLUTCH PLATE BEAMS SHALL CONSIST OF A CONTINUOUS STEEL PLATE BOLTED BETWEEN TWO PIECES OF CONTINUOUS LUMBER AS SIZED ON THE PLANS. BOLT PIECES TOGETHER USING 1/2" Ø BOLTS SPACED AT 16" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 16" MAX FROM EACH END OF THE BEAM. TYP UNO

PART 14: STUD SUPPORTS FOR BEAMS

14.01 STEEL ENGINEERED LUMBER, AND FLUTCH PLATE BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:

1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED AND SHALL BE SUPPORTED BY A MINIMUM OF THREE GANGED STUDS, OR A GANGED STUD COLUMN WITH A NUMBER OF STUDS SUCH THAT THE STUD COLUMN IS AT LEAST AS WIDE AS THE TRUE WIDTH OF THE BEAM BEING SUPPORTED, WHICHEVER IS GREATER, TYP UNO. FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM

2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED COLUMN TYP UNO.

14.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:

1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED LESS 1 1/2" TO ALLOW FOR A CONTINUOUS RM JOIST WHERE APPLICABLE) AND SHALL BE SUPPORTED BY A GANGED STUD COLUMN THE SAME WIDTH AS THE BEAM TYP UNO. (E.G. A TRIPLE 2X10 IS TO BE SUPPORTED BY (3) STUDS). FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM

2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN TYP UNO.

14.03 EXTRA JOISTS BEARING ON A STUD WALL PERPENDICULAR TO OR SKEWED RELATIVE TO THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD.

14.04 STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN THE COLUMN NAILED TOGETHER WITH ONE ROW OF 10d NAILS AT 8" O.C. (TWO ROWS OF 10d NAILS Ø 8" O.C., 3" APART, FOR 2X8 OR 2X10 STUDS) ALL COLUMNS SHALL BE CONTINUOUS DOWN TO THE FOUNDATION OR OTHER PROPERLY DESIGNED STRUCTURAL ELEMENT SUCH AS A BEAM. COLUMNS TRANSFERRING LOADS THROUGH FLOOR LEVELS SHALL BE SOLIDLY BLOCKED FOR THE FULL WIDTH OF THE STUD COLUMN WITHIN THE CAVITY FORMED BY THE FLOOR JOISTS.

PART 15: NAILING OF MULTI-PLY WOOD BEAMS

15.01 SOLID SAWN LUMBER JOISTS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM NAILED TOGETHER WITH THREE ROWS OF 10d NAILS Ø 16" O.C. FOR 2X10 OR LARGER, TWO ROWS OF 10d NAILS Ø 16" O.C. FOR 2X8, ONE ROW OF 10d NAILS Ø 16" O.C. FOR 2X6 OR SMALLER. STAGGER ROWS 5" MIN.

15.02 LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP UNO

PART 16: WALL FRAMING AND BRACING

16.01 STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 16" O.C. UNO. STUDS SHALL BE CONTINUOUS FROM SOLE PLATE AT FLOOR TO DOUBLE TOP PLATE AT THE CEILING OR ROOF. NO INTERMEDIATE BANDS OR PLATES SHALL CAUSE DISCONTINUITIES IN A STUD WALL EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS SHALL BE CONTINUOUS, TYP UNO.

MAX ALLOWABLE WALL HEIGHTS FOR EXTERIOR STUD WALLS, INCLUSIVE OF SOLE PLATE AND DBL TOP PLATE AND 7/16" OSB EXTERIOR BRACINGS AND ROW OF 2X4 2X6 PURLINS AT 8' HEIGHT (AND AT 16' HEIGHT FOR TALL WALLS), TYP UNO:
2X4 Ø 16" O.C.: 11'-1 1/2" 2X6 Ø 16" O.C.: 17'-0"
2X4 Ø 12" O.C.: 12'-1 1/2" 2X6 Ø 12" O.C.: 18'-8"
DBL 2X4 Ø 16" O.C.: 13'-4" DBL 2X6 Ø 16" O.C.: 21'-0"

16.02 FOR WALL BRACING THE FOLLOWING SHALL APPLY:
-BLOCKING AT UNSUPPORTED PANEL EDGES IS REQUIRED TYP UNO.
-WALL BRACING IS BY ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION 602.10 OF THE 2018 NRC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 OF THE 2018 NRC HAS BEEN MET AND EXCEEDED.
-BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE 602.3(1) TO PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NRCB R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS.
-MAY SUBSTITUTE WSP FOR GB
-SINGLE JOIST, CONTINUOUS RM JOIST, OR BLOCKING OF EQUAL DEPTH IS REQUIRED ABOVE AND BELOW ALL BRACED WALLS. NAIL BLOCKING ABOVE WALL TO TOP PLATE WITH 16d TOE NAILS Ø 6" O.C. NAIL SOLE PLATE OF BRACED WALL TO BLOCKING BELOW WITH (3) 16d NAILS Ø 16" O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACED WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO.

PART 17: KING STUDS

17.01 KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:

MAX OPENING WIDTH	NUMBER OF KING STUDS				
	5'-0"	9'-0"	13'-0"	17'-0"	21'-0"
2X4	1	2	3	4	5
2X6	1	2	2	2	2
2X8	1	1	1	1	2

PART 18: SUBSTITUTIONS

18.01 MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR

PART 19: OWNERSHIP OF STRUCTURAL DESIGN

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REV #

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DATE

ENG:

DATE

PLAN

PROJECT NO.

SHEET NO.

LILIUM HOMES

STRUCTURAL ADDENDUM

19 CEDAR KNOLLS

24-21-263

SD2

7 of 7

ENG: RJS/CR

DATE 10/2/2024

PLAN M229-24

PROJECT NO. 24-21-263

SHEET NO. SD2

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