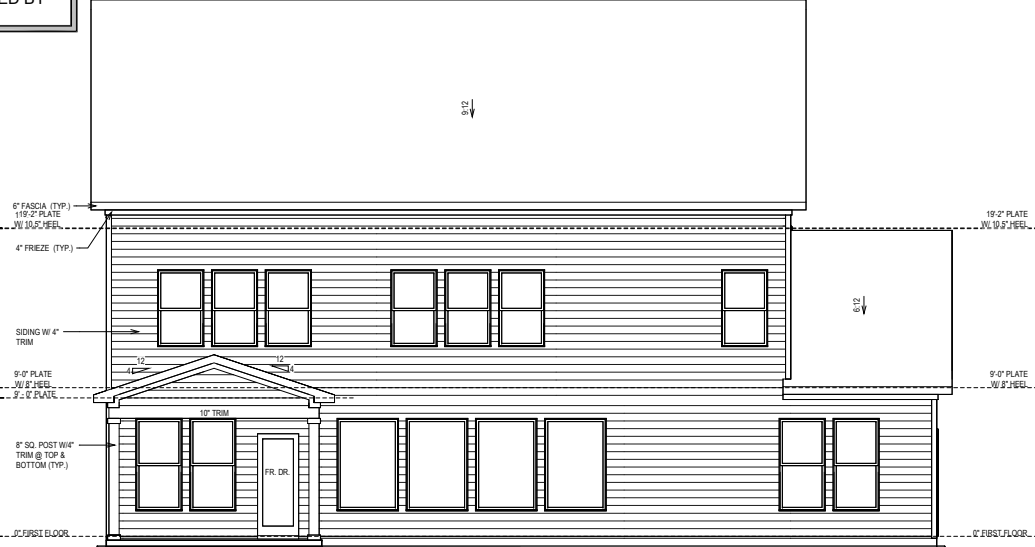


FRONT ELEVATION "E"

PROVIDE HANDRAIL
WHEN REQUIRED BY
CODE



REAR ELEVATION

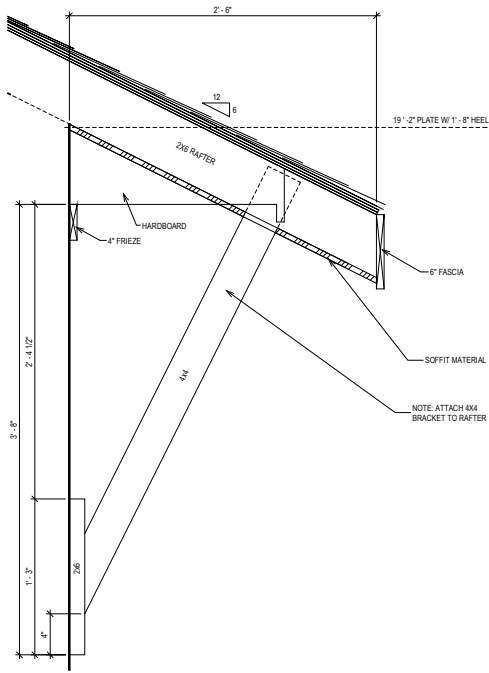
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David Weekley Homes
GS/ABIAA
Date: 08/12/2021
Scale: 1/8"=1'-0"
Rev: 4/29/24 EB

Proj. No.: 01
Lot: 3277
Block: 0001
Sect:

SERENITY 65'
24 WELCOME DR
FUQUAY VARINA, NC

SOUTH
**B330-E
ELV-1**
RANSBALL
RALEIGH



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SERENITY 65'
 24 WELCOME DR
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SOUTH
B330-E
ELV-2
 RANSDELL
 RALEIGH

SHEET INDEX:

| | |
|-------|------------------------------------|
| S-0 | COVER SHEET |
| S-0.1 | GENERAL STRUCTURAL NOTES |
| S-1 | MONOLITHIC SLAB FOUNDATION PLAN |
| S-2 | SECOND FLOOR FRAMING PLAN |
| S-3 | ROOF FRAMING PLAN |
| SD-1 | BRACED WALL DETAILS |
| SD-2 | HOLD DOWN DETAILS |
| SD-3 | BRACED WALL NOTES & DETAILS |
| SD-4 | PORTAL FRAME DETAILS |
| SD-5 | MISCELLANEOUS FRAMING DETAILS |
| SD-6 | MISCELLANEOUS FRAMING DETAILS |
| SD-7 | MONOLITHIC SLAB FOUNDATION DETAILS |
| SD-8 | NOT USED |
| SD-9 | NOT USED |
| SD-10 | NOT USED |
| SD-11 | NOT USED |
| SD-12 | ADVANCED FRAMING DETAILS & NOTES |



**KSE
ENGINEERING**

1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951
www.kse-eng.com (215) 804-4449

**B330 RANSDALL
SERENITY, LOT #1**

RALEIGH, NORTH CAROLINA

THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SER). SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS "THE BUILDING CODE"):
 • 2018 NORTH CAROLINA RESIDENTIAL CODE. WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

DESIGN LIVE LOADS:
 • ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)
 • UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)
 • HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF
 • FLOOR = 40 PSF
 • FLOOR (SLEEPING AREAS) = 30 PSF
 • DECK/BALCONY = 40 PSF
 • STAIRS = 40 PSF

DESIGN DEAD LOADS:
 • ROOF TRUSS = 17 PSF (TC=7, BC=10)
 • FLOOR TRUSS = 15 PSF (TC=10, BC=5)
 • FLOOR JOIST = 10 PSF
 • STANDARD BRICK = 40 PSF
 • QUEEN ANNE BRICK = 25 PSF

NOTE: STRUCTURAL FRAMING HAS NOT BEEN DESIGNED FOR TILE, GRANITE, MARBLE OR OTHER MATERIALS HEAVIER THAN THE ABOVE LOADING UNLESS SPECIFICALLY NOTED ON PLANS.

DESIGN WIND LOADS:
 • ULTIMATE WIND SPEED = 115 MPH
 • EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 45 PCF

FROST DEPTH = 12" MINIMUM

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

- TJI 210 SERIES (SERIES AND SPACING PER PLANS)
- LSL: E=1,550,000 PSI, F_b=2,325 PSI, F_v=310 PSI, F_c=900 PSI
- LVL: E=2,000,000 PSI, F_b=2,600 PSI, F_v=285 PSI, F_c=750 PSI
- PSL: E=2,100,000 PSI, F_b=2,900 PSI, F_v=290 PSI, F_c=625 PSI



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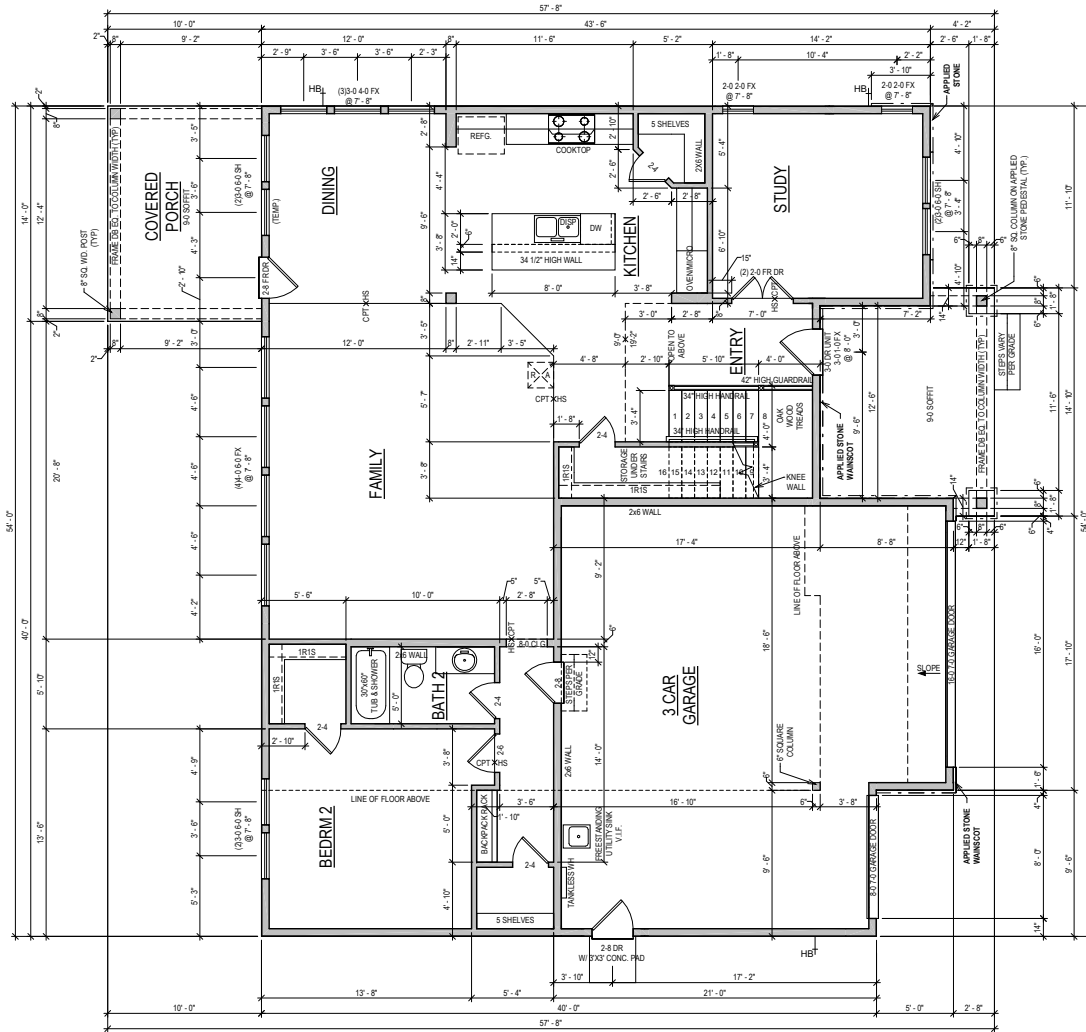
David Weekley Homes
Raleigh, NC

Cover Sheet
 Serenity, Lot #1
 B330 Ransdall Model
 115 M.P.H.
 Raleigh, North Carolina

Project #: 047-20010
 Designed By: JPS
 Checked By:
 Issue Date: 7/30/24
 Re-Issue:
 Scale: 1/8"=1'-0" @ 11x17
 1/4"=1'-0" @ 22x34



S-0



FIRST FLOOR

GENERAL REQUIREMENTS

SLOPED SURFACE REQUIREMENTS
ALL PATIOS TO SLOPE 1/4" PER FOOT

GARAGE FLOOR TO BE SLOPED 1/8" PER FOOT TOWARDS VEHICLE ENTRY DOOR

ROOF DECKS AND BALCONIES TO BE SLOPED 1/4" PER FOOT TOWARDS RELIEF POINTS

RAILING REQUIREMENTS
FINISHED HANDRAIL REQUIRED AT STAIRS WITH 4 OR MORE RISERS

FINISHED HANDRAIL HEIGHT BETWEEN 34" AND 36" MEASURED VERTICALLY ABOVE TREAD NOSING

FINISHED GUARDRAILS REQUIRED AT DECKS, BALCONIES AND WALKWAYS THAT ARE 30" OR GREATER ABOVE GRADE AND BE AT A MINIMUM OF 36" IN HEIGHT

FINISHED GUARDRAIL AND HANDRAIL SPINDLES MUST BE SPACED SO A 4" SPHERE WILL NOT PASS THROUGH.

| PLAN SQFT | |
|----------------------|----------------|
| LIVING | |
| 1ST FLOOR | 1584 SF |
| 2ND FLOOR | 1843 SF |
| 3RD FLOOR | 452 SF |
| TOTAL LIVING | 3779 SF |
| SLAB | |
| 1ST FLOOR | 1584 SF |
| COVERED PORCH | 140 SF |
| FRONT PORCH | 150 SF |
| GARAGE | 871 SF |
| TOTAL SLAB | 2445 SF |
| FRAMING | |
| 1ST FLOOR | 1584 SF |
| 2ND FLOOR | 1897 SF |
| 3RD FLOOR | 413 SF |
| COVERED PORCH | 140 SF |
| FRONT PORCH | 150 SF |
| GARAGE | 571 SF |
| TOTAL FRAMING | 4655 SF |

| OPTION LIST | |
|--------------------------|-------------|
| BASELINE 8 STAIRS | FREE STAIRS |
| FRENCH DOORS @ STUDY | FREE STAIRS |
| 24 SERVICE DOOR @ GARAGE | FREE STAIRS |
| COUNTERTOP @ UTILITY | FREE STAIRS |
| COVERED PORCH | FREE STAIRS |
| SUPER BLOWER | FREE STAIRS |
| SINK @ UTILITY | FREE STAIRS |

NOTE: ALL 1ST FLR. CEILING HEIGHTS
9'-0" UNLESS NOTED OTHERWISE

ADVANCED FRAMING: 2X6 EXTERIOR
PERIMETER WALLS & ALL INSULATED
WALLS UNLESS NOTED OTHERWISE

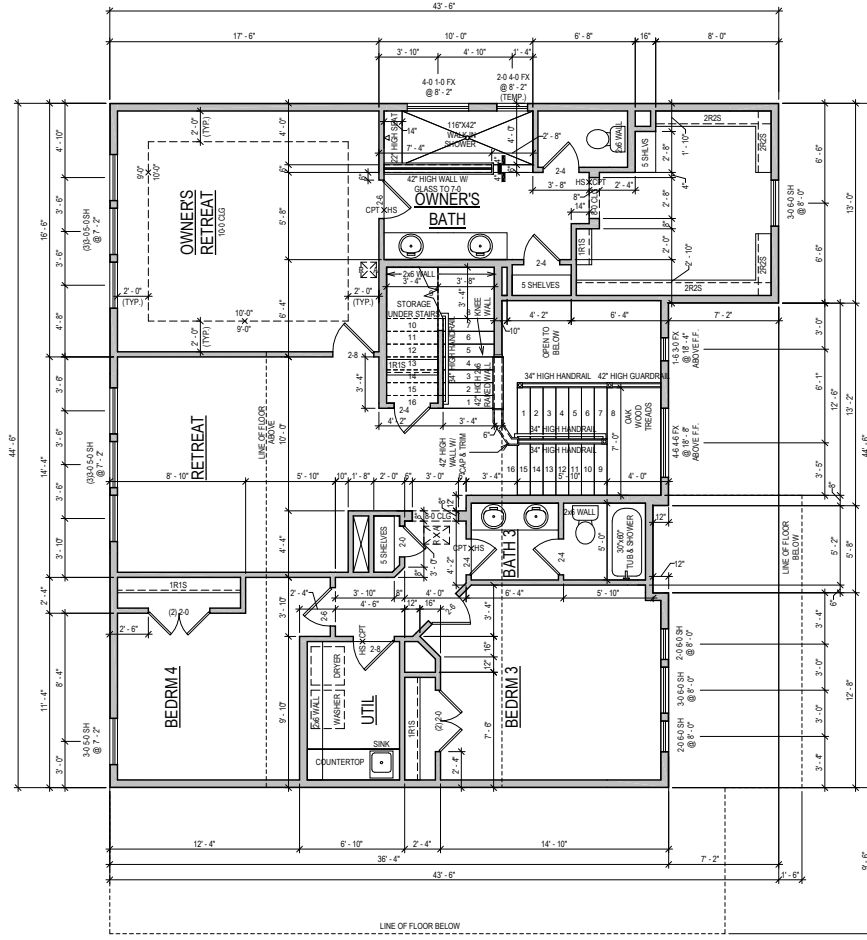
SERENITY 65'
24 WELCOME DR
FUQUAY VARINA, NC

Proj. No.: **01**
Job No.: **3277**
Block: **0001**

SOUTH
B330-E
PLN-1
RANSALL
RALEIGH

David Weekley Homes
GS/ABIAA
Date: 08/12/2021
Scale: 1/8"=1'-0"
Rev: 4/29/24 EB

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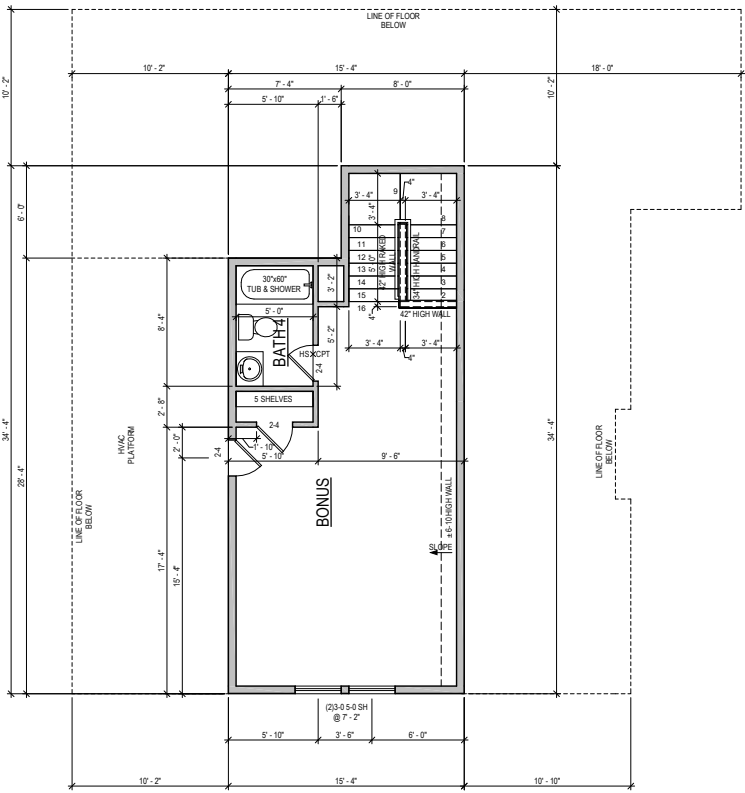
SECOND FLOOR

NOTE: ALL 2ND FLR. CEILING HEIGHTS
9'-0" UNLESS NOTED OTHERWISE

ADVANCED FRAMING: 2X6 EXTERIOR
PERIMETER WALLS & ALL INSULATED
WALLS UNLESS NOTED OTHERWISE

| | | |
|--|---------------------------|------------------------|
| SERENITY 65' 24 WELCOME DR FUQUAY VARINA, NC | Proj. No.: 3277 | Lot: 01 |
| | Job No.: 0001 | Block: 0001 |
| SOUTH B330-E PLN-2 RANSDALL RALEIGH | Date: 08/12/2021 | Rev: 4/29/24 EB |

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BONUS

NOTE: ALL 3RD FLR. CEILING HEIGHTS
8'-0" UNLESS NOTED OTHERWISE

ADVANCED FRAMING: 2X6 EXTERIOR
PERIMETER WALLS & ALL INSULATED
WALLS UNLESS NOTED OTHERWISE

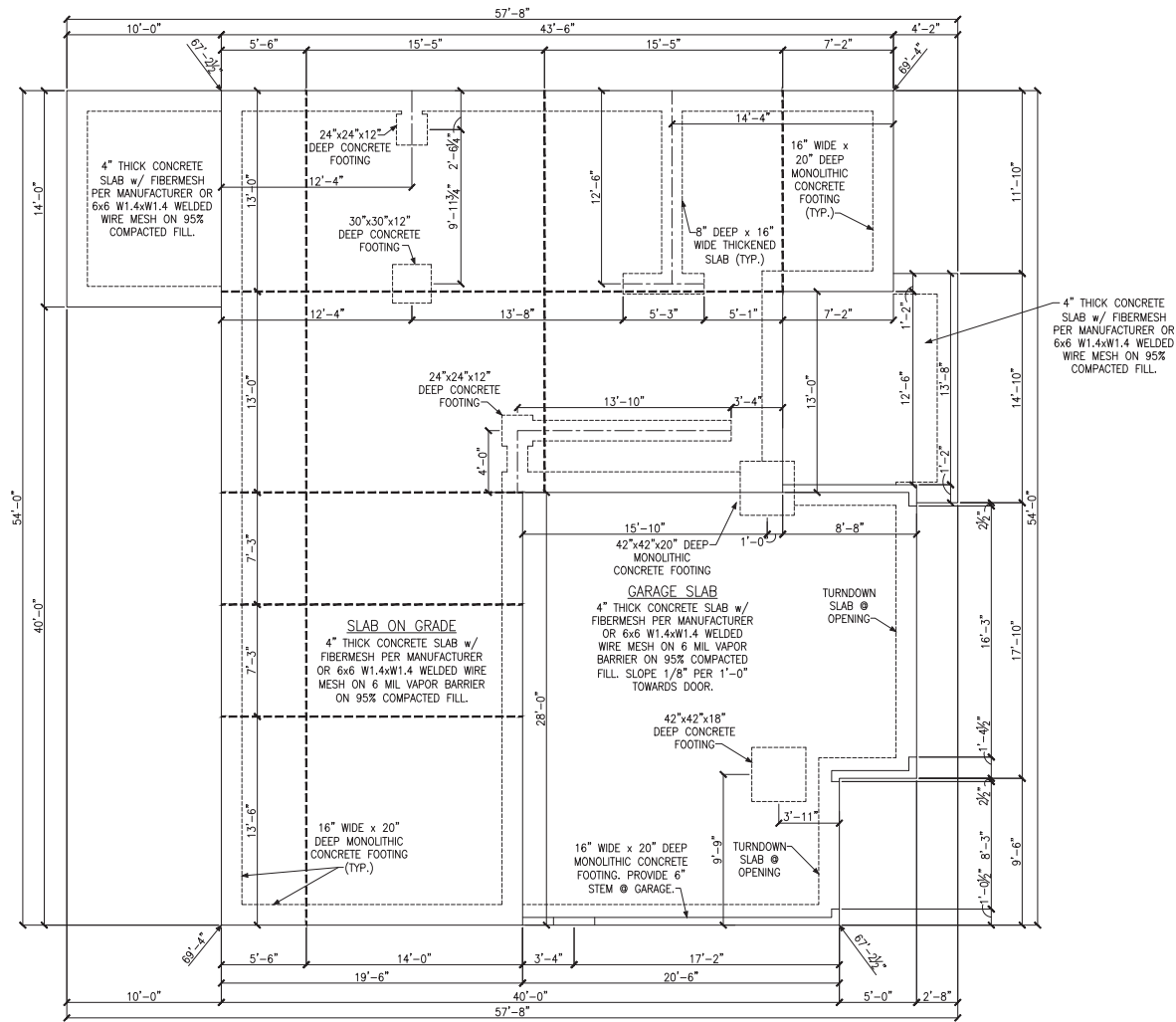
SOUTH
B330-E
PLN-3
RANS DALL
RALEIGH

SERENITY 65'
24 WELCOME DR
FUQUAY VARINA, NC

Proj. No.: **01**
Lot: **3277**
Job No.: **0001**
Sect:

David Weekley Homes
CN/AF/SG Scale: 1/8"=1'-0"
Date: Rev: 4/29/24 EB

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MONOLITHIC SLAB FOUNDATION PLAN

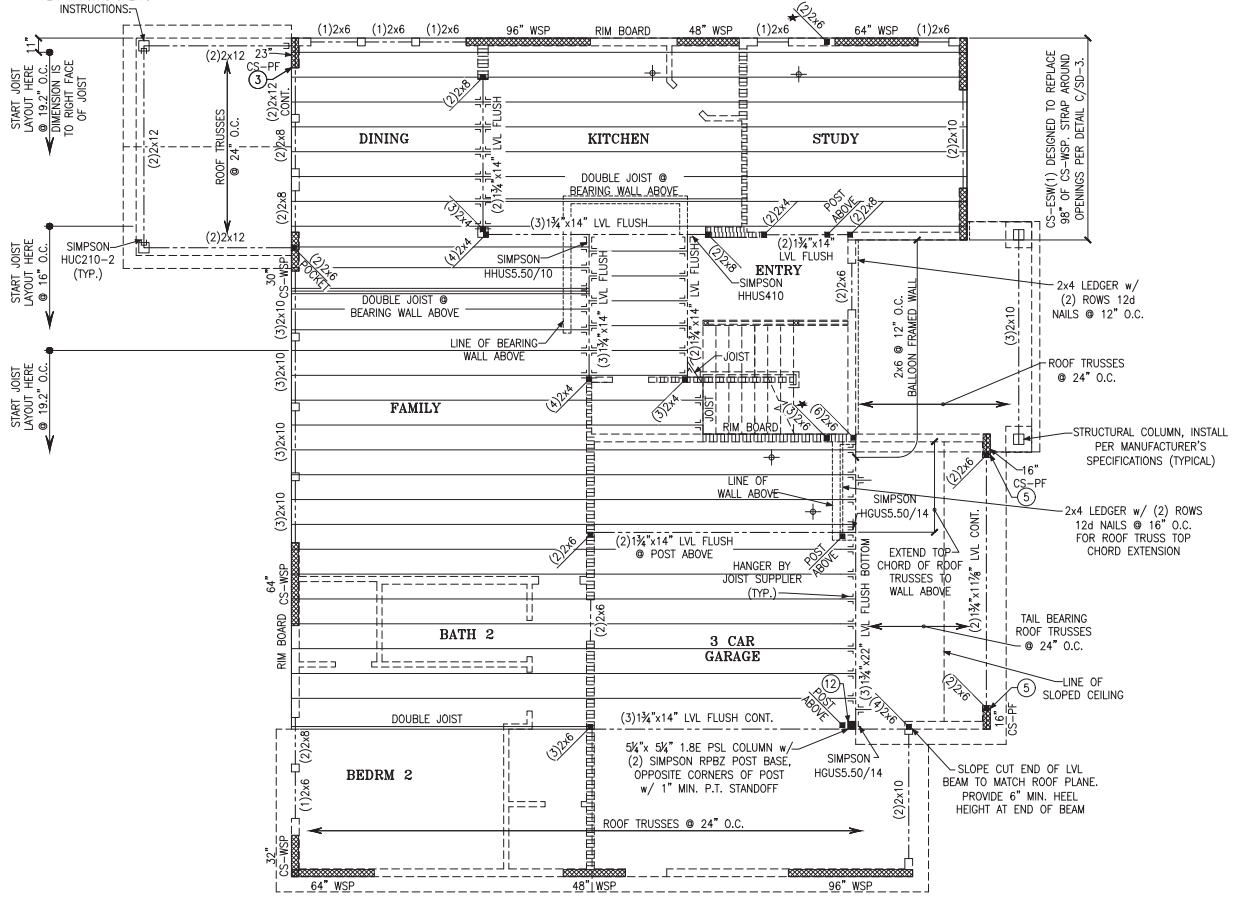
LEGEND

- ★ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- BEARING WALL ABOVE
- INTERIOR BEARING WALL
- ▤ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- 48" WSP

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES, TYPICAL DETAILS AND ADVANCED FRAMING NOTES AND DETAILS



STRUCTURAL COLUMN BY OTHERS WITH MIN. 3,000 LB. CAPACITY. INSTALL PER MANUFACTURER'S INSTRUCTIONS.



LEGEND

- ★ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- ▬ BEARING WALL ABOVE
- ▬ INTERIOR BEARING WALL
- ▬ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- 48" WSP

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES, TYPICAL DETAILS AND ADVANCED FRAMING NOTES AND DETAILS.

PLAN DESIGNED WITH 9' NOMINAL WALL PLATE HEIGHT.

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, SPACING PER MANUFACTURER.

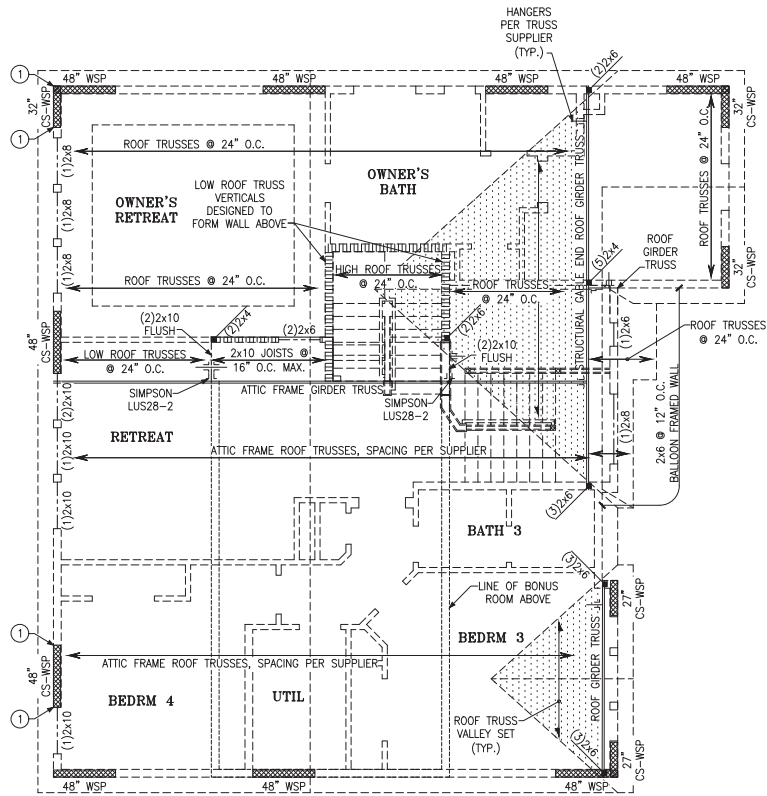
KEYNOTES:

- ③ INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A/SD-3.
- ⑤ INSTALL TWO PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.
- ⑫ TOF-SCREW TOP OF PSL COLUMN TO UNDERSIDE OF BEAM WITH (4) SIMPSON 0.152"x6" SDWC SCREWS (SDWC15600)

SECOND FLOOR FRAMING PLAN



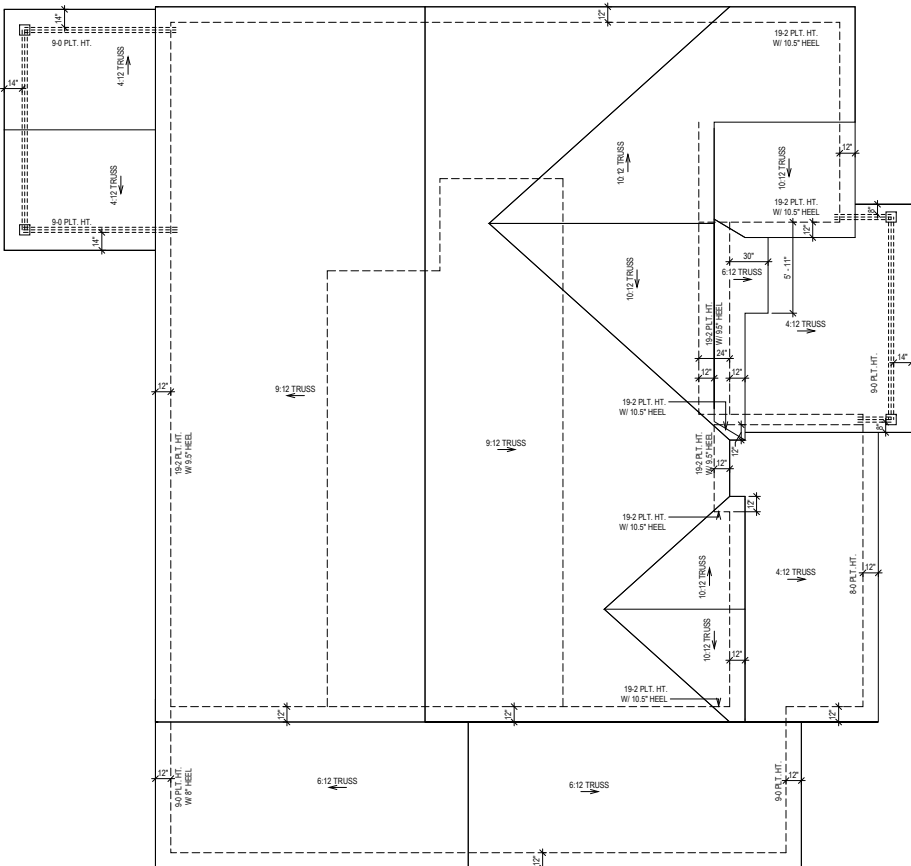
Project #: 047-20010
 Designed By: JPS
 Checked By:
 Issue Date: 7/30/24
 Re-Issue:
 Scale: 1/8"=1'-0" @ 11x17
 1/4"=1'-0" @ 22x34



ROOF FRAMING PLAN

| LEGEND | |
|--|---|
| | PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE. |
| | BEARING WALL ABOVE |
| | INTERIOR BEARING WALL |
| | BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS) |
| | 48\"/> |
| REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES, TYPICAL DETAILS AND ADVANCED FRAMING NOTES AND DETAILS | |
| PLAN DESIGNED WITH 9\"/> | |
| KEYNOTES: | |
| ① | AT RAISED FLOOR BELOW, CONNECT STUD AT END OF BRACED WALL PANEL TO FRAMING BELOW WITH A 30\"/> |





ROOF PLAN "E"

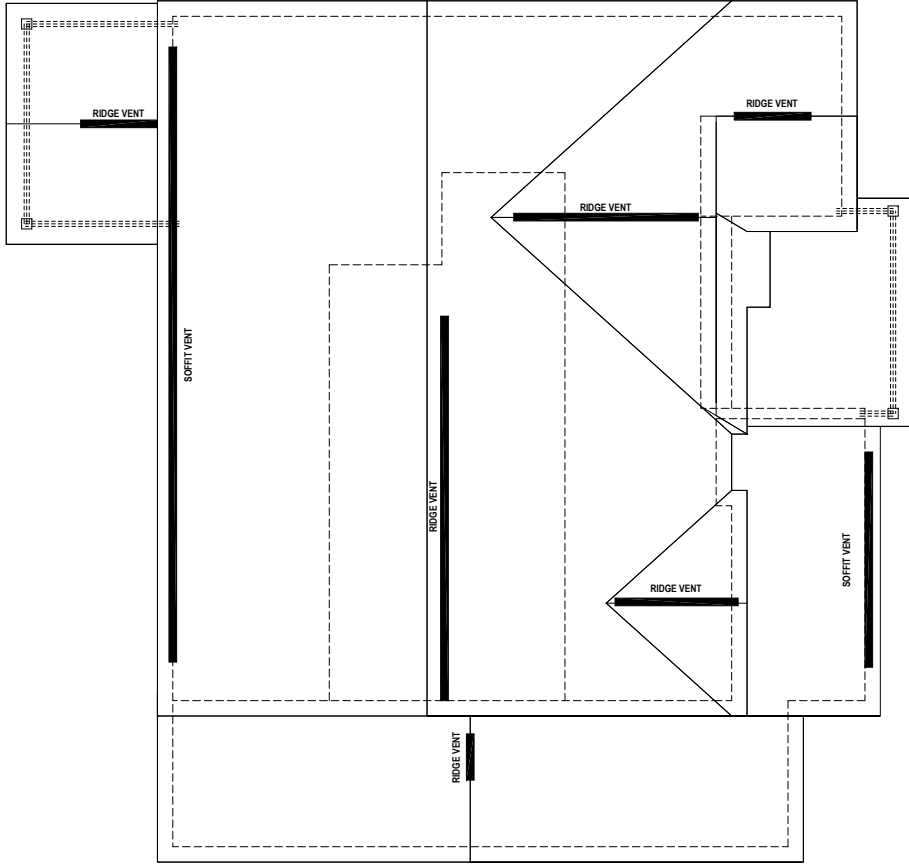
SOUTH
B330-E
RFP-1
 RANSDALL
 RALEIGH

SERENITY 65'
 24 WELCOME DR
 FUQUAY VARINA, NC

Proj. No.: 01
 Lot: 3277
 Job No.: 0001
 Block:
 Sect:

David Weekley Homes
 GS/AB/AA Date: 08/12/2021 Scale: 1/8"=1'-0" Rev: 4/29/24 EB

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ROOF PLAN "E" CALCS

ROOF VENT CALCULATION:
 ATTIC SPACE: 2545 SQ.FT.
 REQUIRED VENTILATION: 1222 SQ.IN. REQ.

SOFFIT VENT PROVIDED: 54 LINEAL FEET
 RIDGE VENT PROVIDED: 53 LINEAL FEET
 AIR HAWK VENT PROVIDED: 0 UNITS

PROVIDED VENTILATION: 1224 SQ.IN.

50-80% IN UPPER PORTION: 78%

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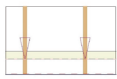
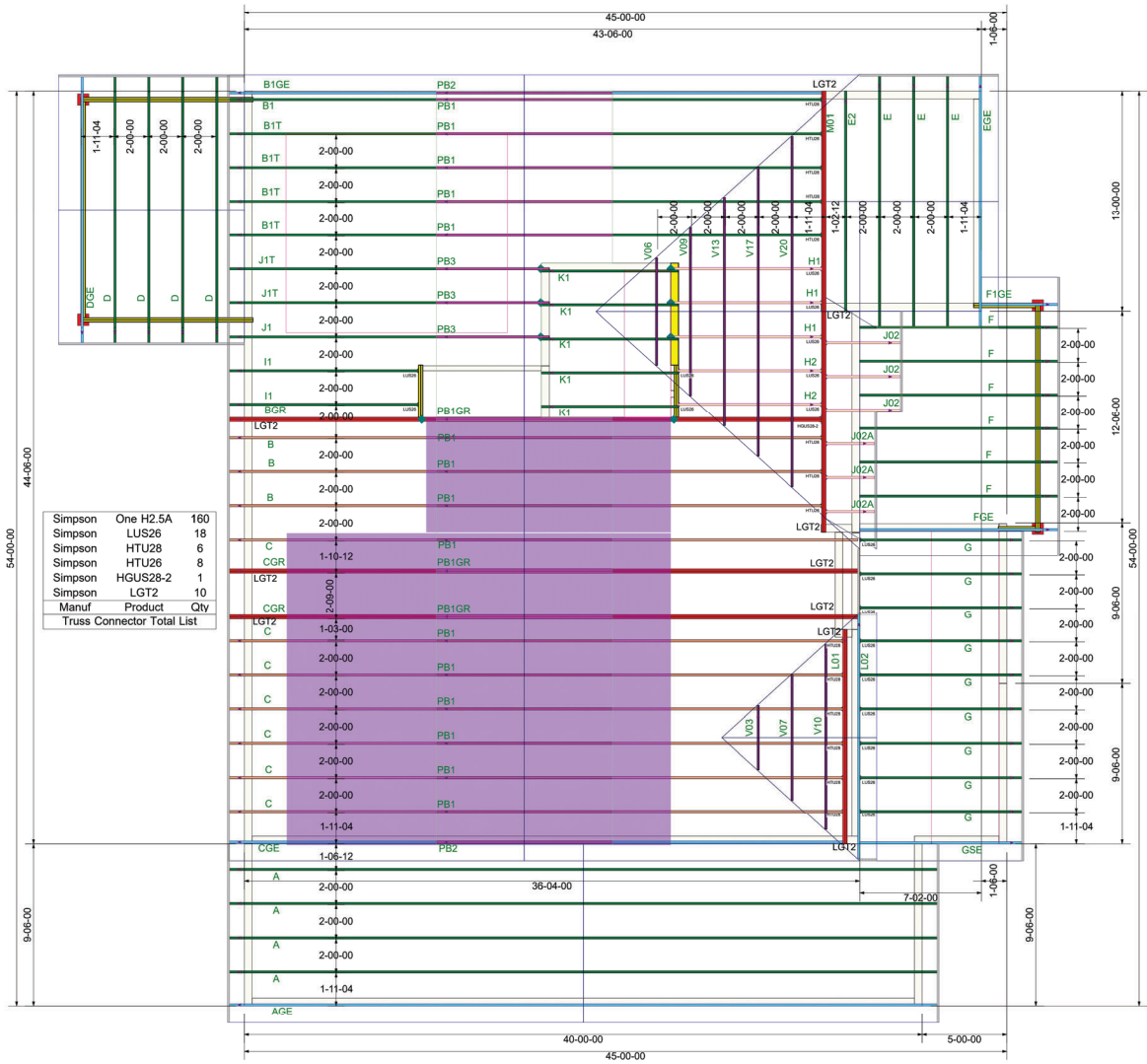
RM/MW/KC Scale: 1/8"=1'-0"
 Date: Rev: 4/29/24 EB

SERENITY 65'
 24 WELCOME DR
 FUQUAY VARINA, NC

Proj. No.: 01
 Lot: 3277
 Job No.: 0001

SOUTH
B330-E
RFP-2
 RANSBALL
 RALEIGH

General Notes: ** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION. ** ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.



Truss Drawing Left End Indicator

** DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE COMPONENT PLANT. ** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS. ** ORDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS. ** DIMENSIONS ARE READ AS: FOOT-INCH-AND-KENTH. ** TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.

** TRIANGULAR SYMBOL NEAR END OF TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS. ** PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES. ** REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.

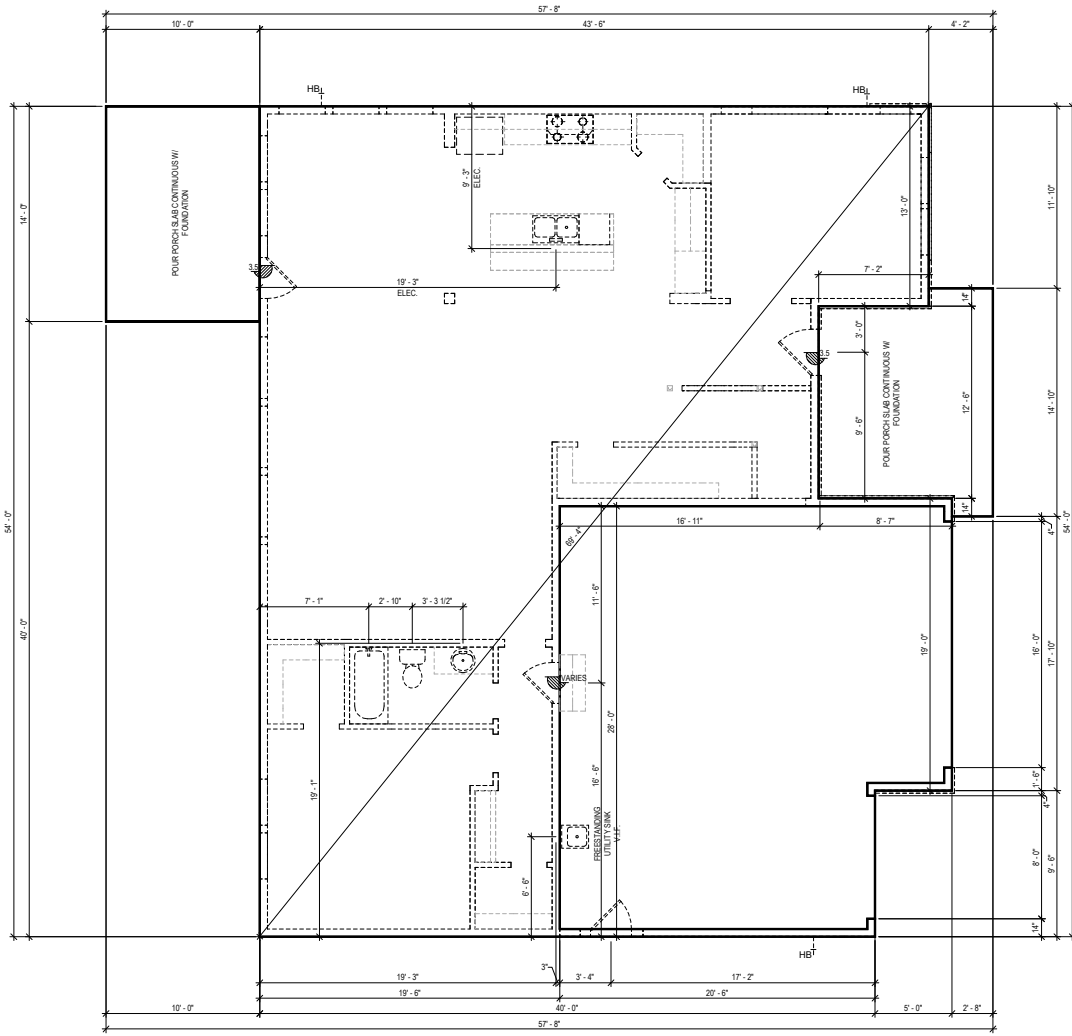
| Revisions | |
|-----------|------|
| 00/00/00 | Name |
| 00/00/00 | Name |
| 00/00/00 | Name |
| 00/00/00 | Name |
| 00/00/00 | Name |

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed and engineered by the truss designer at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for the overall structure and for the overall support systems including headers, beams, walls, and columns is the responsibility of the building designer. The design of the truss support system is the responsibility of the truss designer. "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onefro Drive, Madison, WI 53719



David Weekley Homes
 1 Serenity-Roof-B330 E COP
 TMB BNS 4 GLH
COMPONENT PLACEMENT PLAN

Scale: NTS
 Date: 8/9/2024
 Designer: ND
 Project Number: 24070208-01
 Sheet Number: 1/1



FIRST FLOOR "E"

SEE ENGINEERING FOR ANCHOR BOLT REQUIREMENTS

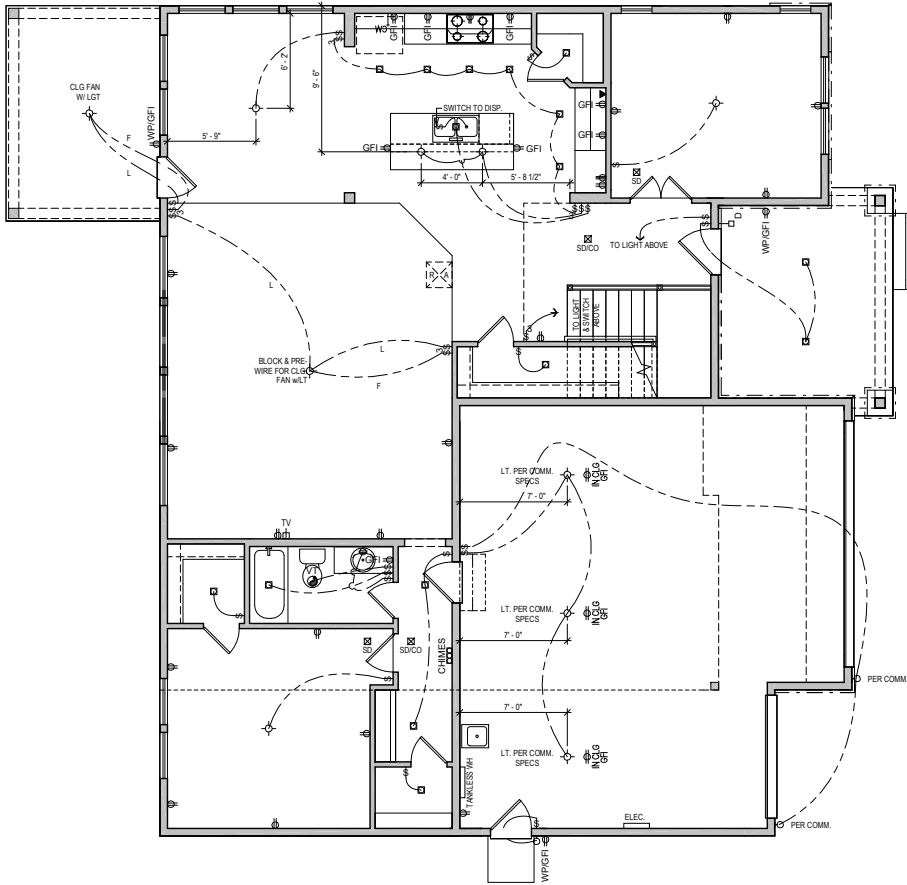
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 Lot: 3277
 Block: 0001
 Sect:

SERENITY 65'
24 WELCOME DR
FUQUAY VARINA, NC

SOUTH
B330-E
FS-1
 RANSBALL
 RALEIGH



FIRST FLOOR "E"

ALL RECESS CANS SHOWN
ON PLAN ARE LED PER
COMMUNITY SPEC.

CITY SPECIFIC
RECESS CAN/ EXHAUST
VENT COMBO

| UTILITY LEGEND | | | |
|----------------|---|---|---|
| ⊕ | 110V OUTLET | ⊕ | ELEVATOR CALL BUTTON |
| ⊕ | 12" A.F.F. (U.N.O.) | ⊕ | RECESS CAN LIGHT (EYESBALL AS NOTED) |
| ⊕ | GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED) | ⊕ | EXHAUST VENT |
| ⊕ | HALF HOT OUTLET | ⊕ | SMOKE DETECTOR (CARBON MONOXIDE AS NOTED) |
| ⊕ | 220V OUTLET (30" A.F.F. @ UTILITY) | ⊕ | DOOR BELL |
| ⊕ | PHONE LINE | ⊕ | CHIMES |
| ⊕ | CABLE TELEVISION | ⊕ | DOOR BELL CHIMES |
| ⊕ | STANDARD SWITCH (3 OR 4 WAY AS NOTED) | ⊕ | PANELBOARD W/ CIRCUIT BREAKERS |
| ⊕ | SURFACE MOUNTED LIGHT | ⊕ | HOSE BIB |
| ⊕ | SURFACE MOUNTED LED DISC LIGHT | ⊕ | GAS TAP |
| ⊕ | WALL MOUNTED LIGHT | ⊕ | COLD/HOT WATER SUPPLY |

IN ALL HABITABLE ROOMS
LIGHT BOXES MUST BE FAN
RATED

MID-ATLANTIC General Notes

1. ALL ELECTRICAL PLUGS TO BE 9" TO TOP FROM FLOOR IN ROOMS WITH WALL MOLDINGS.
2. SWITCH FOR ATTIC LIGHT TO BE LOCATED OUTSIDE OF ATTIC SPACE, 12 INCHES FROM CEILING.
3. DO NOT RUN WIRES ON TOP OF JOISTS IN AREAS LIKELY TO HAVE DECKING IN ATTIC. (near disappearing items)
4. PROVIDE SMOKE DETECTORS IN EVERY BEDROOM. SEE SPECS FOR REQUIRED TYPE AND WIRING.
5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.
6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.

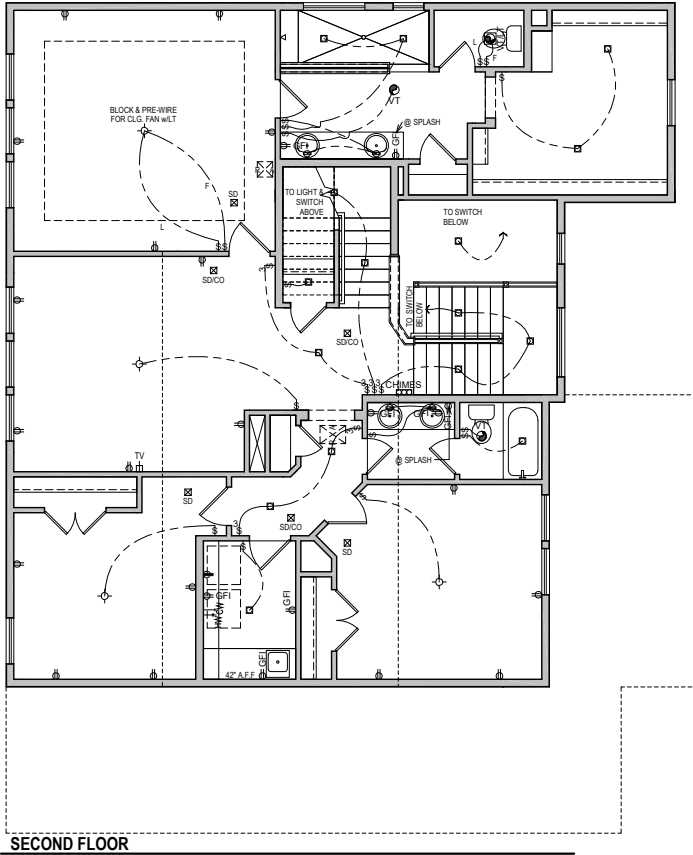
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SOUTH
B330-E
ELE-1
RANS DALL
RALEIGH



SECOND FLOOR

| UTILITY LEGEND | |
|----------------|---|
| ⊕ | 110V OUTLET 12" A.F.F. (U.N.C.) |
| ⊕ | GFI GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED) |
| 1/2 ⊕ | HALF HOT OUTLET |
| ⊕ | 220V OUTLET (30" A.F.F. @ UTILITY) |
| ▽ | PHONE LINE |
| TV | CABLE TELEVISION |
| ⊕ | STANDARD SWITCH (3 OR 4 WAY AS NOTED) |
| ⊕ | SURFACE MOUNTED LIGHT |
| ⊕ | SURFACE MOUNTED LED LED DISC LIGHT |
| ⊕ | WALL MOUNTED LIGHT |
| E | ELEVATOR CALL BUTTON |
| ⊕ | RECESS CAN LIGHT (EYEBALL AS NOTED) |
| VT | EXHAUST VENT |
| SD | SMOKE DETECTOR (CARBON MONOXIDE AS NOTED) |
| D | DOOR BELL |
| CHIMES | DOOR BELL CHIMES |
| ELEC. | PANELBOARD W/ CIRCUIT BREAKERS |
| HB | HOSE BIB |
| GAS | GAS TAP |
| CW HW | COLD/HOT WATER SUPPLY |

ALL RECESS CANS SHOWN
ON PLAN ARE LED PER
COMMUNITY SPEC.

IN ALL HABITABLE ROOMS
LIGHT BOXES MUST BE FAN
RATED

MID-ATLANTIC General Notes

1. ALL ELECTRICAL PLUGS TO BE 9" TO TOP FROM FLOOR IN ROOMS WITH WALL MOLDINGS.
2. SWITCH FOR ATTIC LIGHT TO BE LOCATED OUTSIDE OF ATTIC SPACE, 12 INCHES FROM CEILING.
3. DO NOT RUN WIRES ON TOP OF JOISTS IN AREAS LIKELY TO HAVE DECKING IN ATTIC. (near disappearing stairs)
4. PROVIDE SMOKE DETECTORS IN EVERY BEDROOM. SEE SPECS FOR REQUIRED TYPE AND WIRING.
5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.
6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.

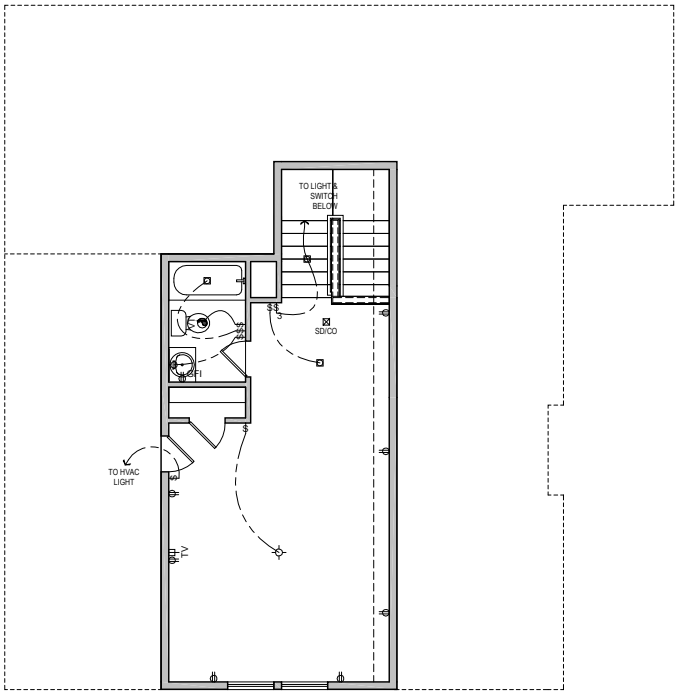
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SERENITY 65'
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SOUTH
B330-E
ELE-2
RANSDALL
RALEIGH



BONUS

| UTILITY LEGEND | | | |
|----------------|--|--------|---|
| ⊕ | 110V OUTLET 12" A.F.F. (U.N.C.) | ⌘ | ELEVATOR CALL BUTTON |
| ⊕ | GROUND FAULT INTERRUPTOR (WEATHER PROOF AS NOTED) | ⌘ | RECESS CAN LIGHT (EYEBALL AS NOTED) |
| 1/2 ⊕ | HALF HOT OUTLET | VT | EXHAUST VENT |
| ⊕ | 220V OUTLET (36" A.F.F. @ UTILITY) | SD | SMOKE DETECTOR (CARBON MONOXIDE AS NOTED) |
| ▽ | PHONE LINE | D | DOOR BELL |
| TV | CABLE TELEVISION | CHIMES | DOOR BELL CHIMES |
| ⊕ | STANDARD SWITCH (3 OR 4 WAY AS NOTED) | ELEC. | PANELBOARD W/ CIRCUIT BREAKERS |
| ⊕ | SURFACE MOUNTED LIGHT | HB | HOSE BIB |
| ⊕ | SURFACE MOUNTED LED LED DISC LIGHT | GAS | GAS TAP |
| ⊕ | WALL MOUNTED LIGHT | CW HW | COLD/HOT WATER SUPPLY |

ALL RECESS CANS SHOWN
ON PLAN ARE LED PER
COMMUNITY SPEC.

IN ALL HABITABLE ROOMS
LIGHT BOXES MUST BE FAN
RATED

MID-ATLANTIC General Notes

1. ALL ELECTRICAL PLUGS TO BE 9" TO TOP FROM FLOOR IN ROOMS WITH WALL NICKELING.
2. SWITCH FOR ATTIC LIGHT TO BE LOCATED OUTSIDE OF ATTIC SPACE, 12 INCHES FROM CEILING.
3. DO NOT RUN WIRES ON TOP OF JOISTS IN AREAS LIKELY TO HAVE DECKING IN ATTIC. (near disappearing stairs)
4. PROVIDE SMOKE DETECTORS IN EVERY BEDROOM. SEE SPECS FOR REQUIRED TYPE AND WIRING.
5. PROVIDE GAS AT APPLIANCES PER COMMUNITY REQUIREMENTS.
6. LOCATE ELECTRICAL PANEL IN LOCATION CLOSEST TO SERVICE.

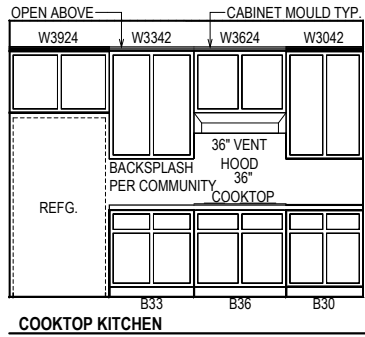
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David Weekley Homes
Scale: 1/8"=1'-0"
Date: 4/29/24 EB

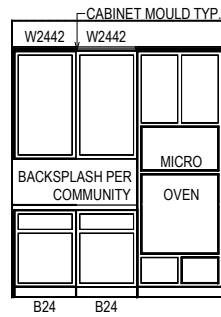
Proj. No.: 01
Lot: 3277
Block: 0001
Sect:

SERENITY 65'
24 WELCOME DR
FUQUAY VARINA, NC

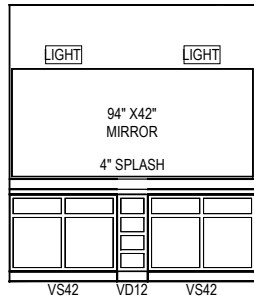
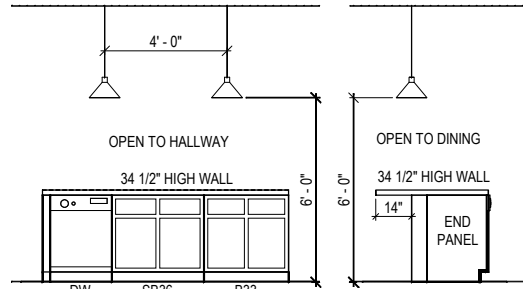
SOUTH
B330-E
ELE-3
RANSDALL
RALEIGH



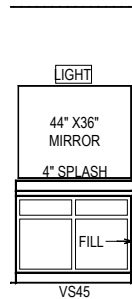
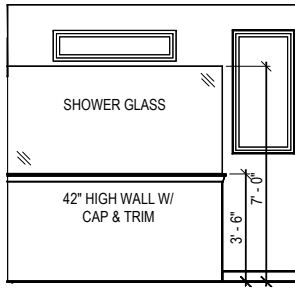
COOKTOP KITCHEN



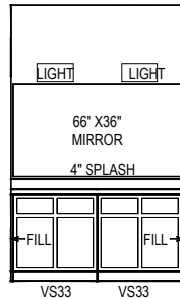
ISLAND



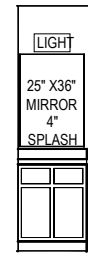
OWNER'S BATH



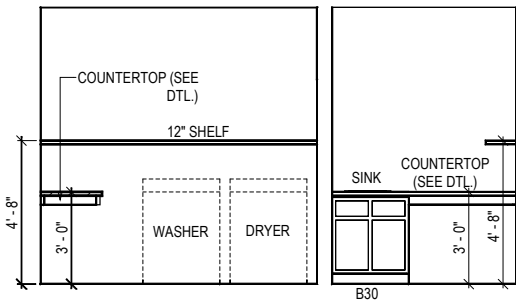
BATH 2



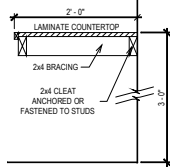
BATH 3



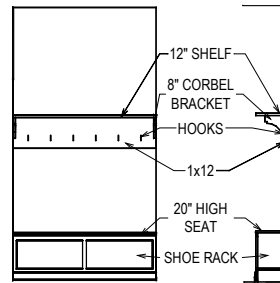
BATH 4



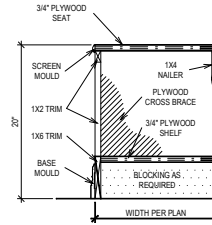
UTIL



COUNTERTOP DETAIL
SCALE: 1/2" = 1'-0"



BACKPACK RACK



SEAT DETAIL
SCALE: 3/4" = 1'-0"

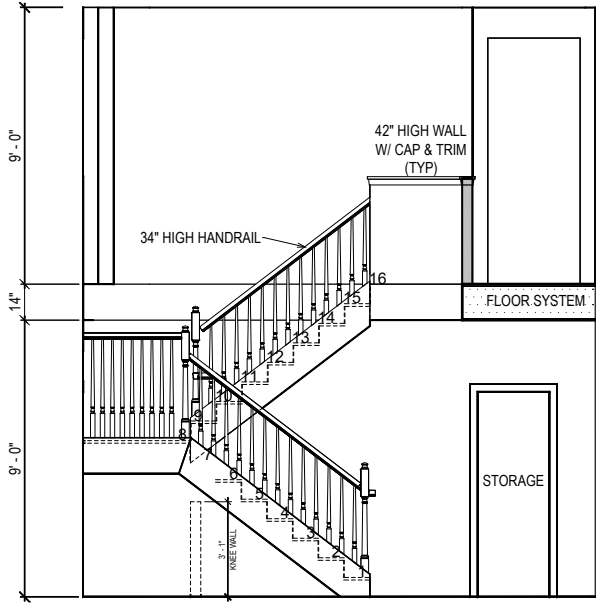
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David Weekley Homes
CN/AF/ISG Date: 08/11/2021 Scale: 1/4"=1'-0" Rev: 4/29/24 EB

Proj. No.: 01
Lot: 3277
Block: 0001
Sect:

SERENITY 65'
24 WELCOME DR
FUQUAY VARINA, NC

SOUTH
B330-E
INT-1
RANSALL
RALEIGH



STAIR SECTION

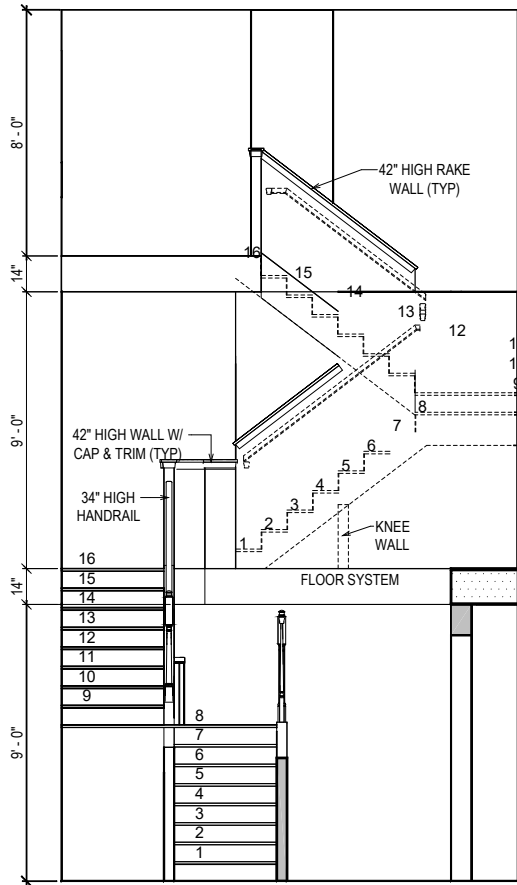
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B330-E
INT-2
 RANSALL
 RALEIGH

SERENITY 65°
 24 WELCOME DR
 FUQUAY VARINA, NC

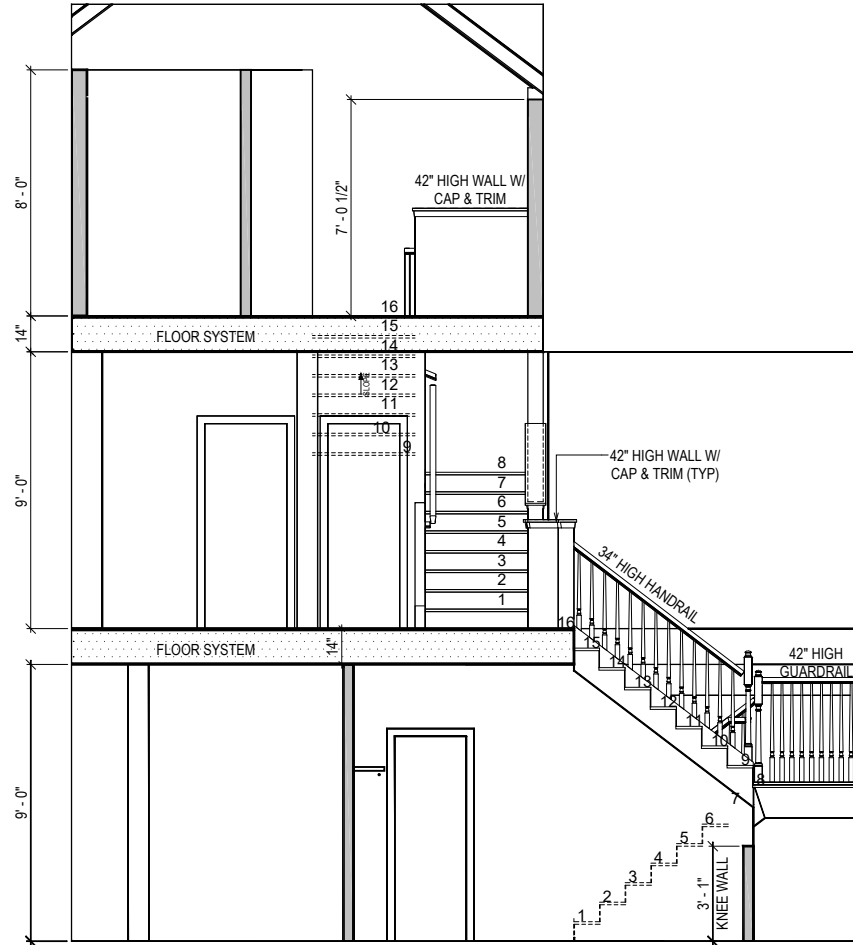
Proj. No.:
 3277
 Lot:
 01
 Job No.:
 0001
 Block:
 Sect:

David Weekley Homes
 CN/AF/ISG
 Date: 08/11/2021
 Scale: 1/4"=1'-0"
 Rev: 4/29/24 EB

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STAIR SECTION



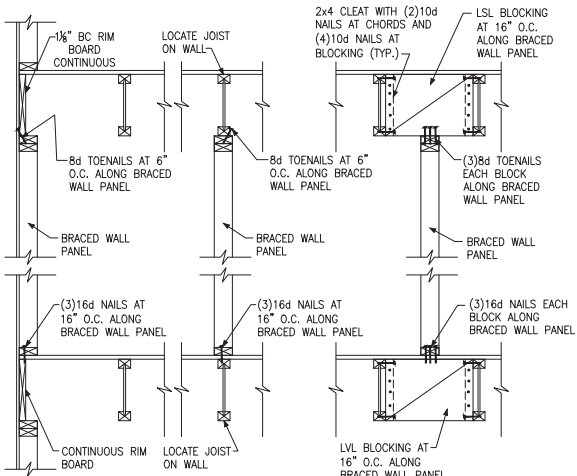
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David Weekley Homes
 Date: _____
 Scale: 1/4"=1'-0"
 Rev: 4/29/24 EB

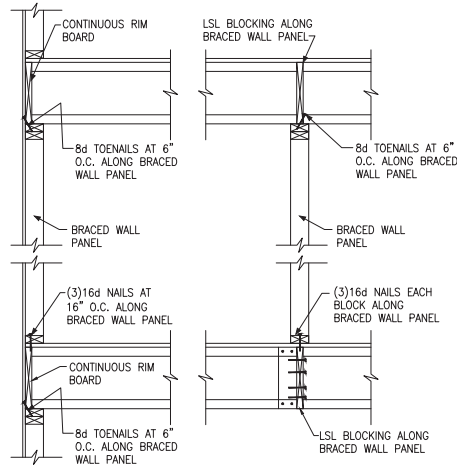
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 Lot: 3277
 Job No.: 0001
 Block: _____
 Sect: _____

SERENITY 65'
 24 WELCOME DR
 FUQUAY VARINA, NC

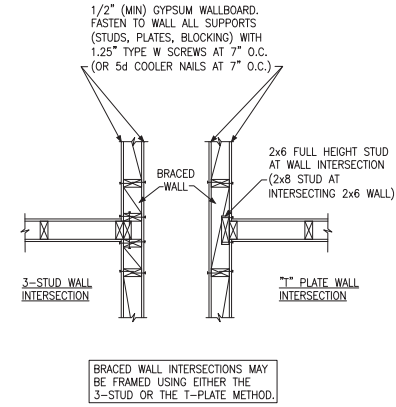
SOUTH
B330-E
INT-3
 RANSDALL
 RALEIGH



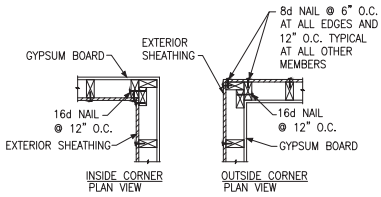
A TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION
BRACED WALL PANELS PARALLEL TO I-JOISTS



B TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION
BRACED WALL PANELS PERPENDICULAR TO I-JOISTS

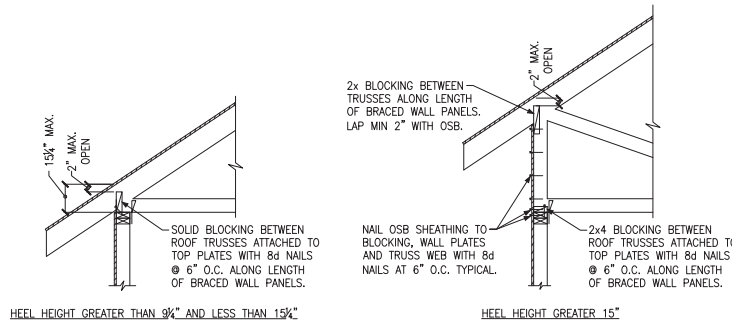


C METHOD GB(1) AND GB(2) INTERSECTION DETAILS



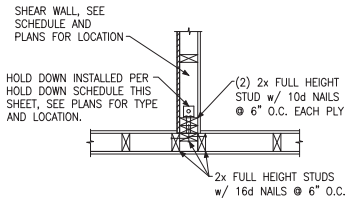
D TYPICAL EXTERIOR CORNER WALL FRAMING

NOTE: A THIRD STUD AND/OR PARTITION INTERSECTION BACKING STUDS SHALL BE PERMITTED TO BE OMITTED THROUGH THE USE OF WOOD BACKUP CLEATS, METAL DRYWALL CLIPS OR OTHER APPROVED DEVICES THAT WILL SERVE AS ADEQUATE BACKING FOR THE FACING MATERIALS.

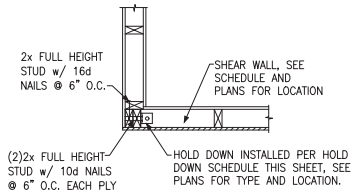


E ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS
ONLY REQUIRED AT BRACED WALL PANELS

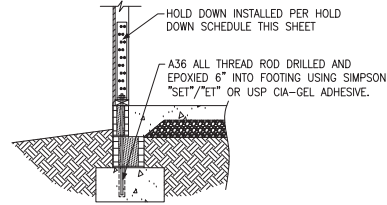




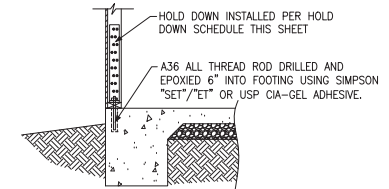
(A) TYPICAL HOLD DOWN DETAIL



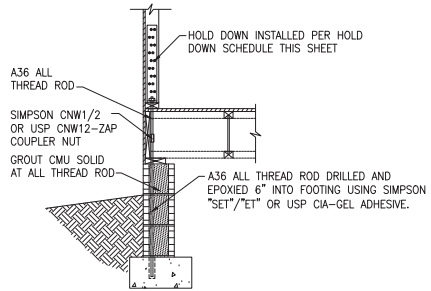
(B) TYPICAL HOLD DOWN DETAIL



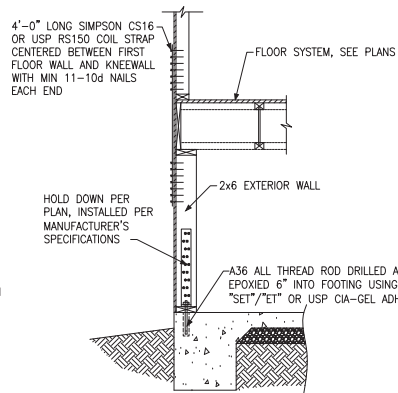
(C) HOLD DOWN AT STEMWALL SLAB



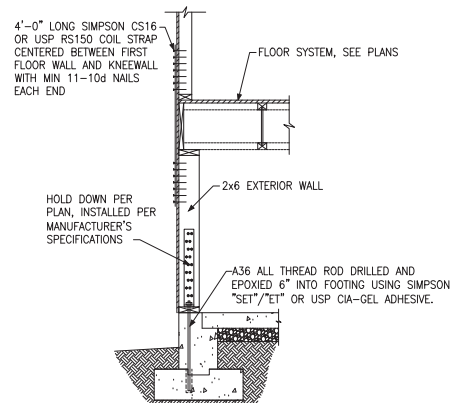
(D) HOLD DOWN AT MONOLITHIC SLAB



(E) HOLD DOWN AT CRAWL FOUNDATION



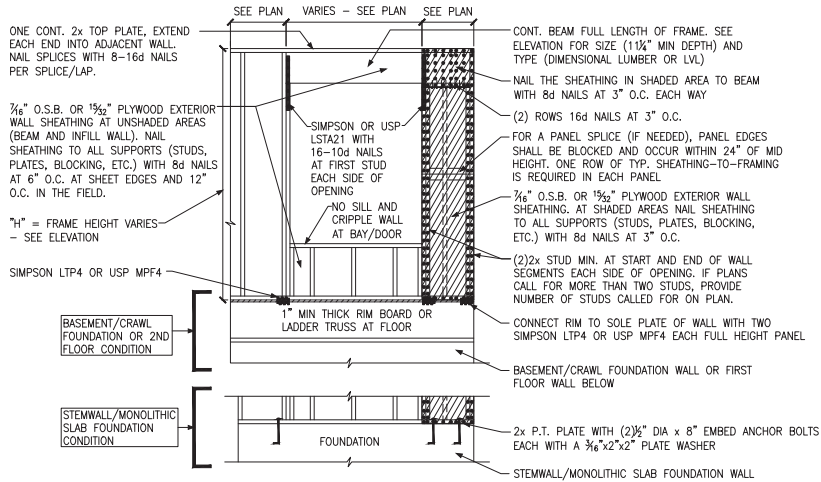
(F) HOLD DOWN AT FOUNDATION MONOLITHIC TURN-DOWN



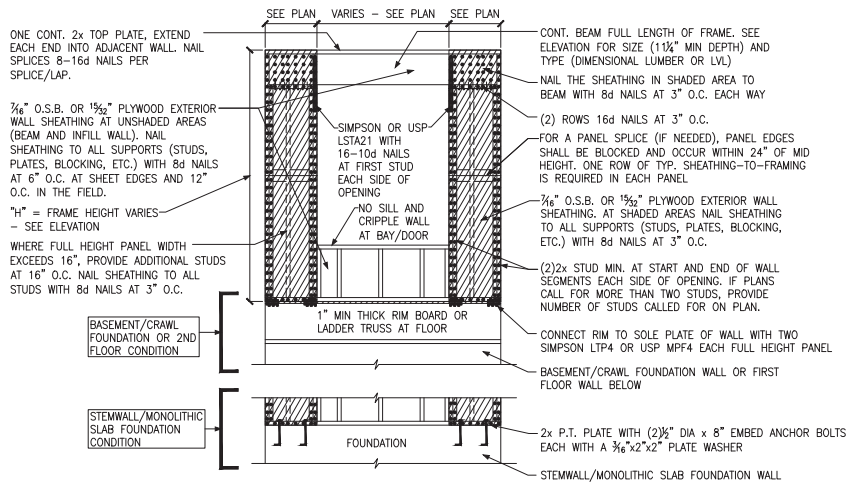
(G) HOLD DOWN AT FOUNDATION STEM WALL

| HOLD DOWN SCHEDULE | | | |
|--------------------|--------|---------------|------------------------|
| HOLD DOWN | | ALL TREAD ROD | FASTENERS |
| SIMPSON | USP | | |
| LTP2 | LTS20B | ½" DIA. | (10)10d NAILS |
| HTT4 | HTT16 | ¾" DIA. | (18)16dx2½" LONG NAILS |
| HTT5 | HTT45 | ¾" DIA. | (26)16dx2½" LONG NAILS |

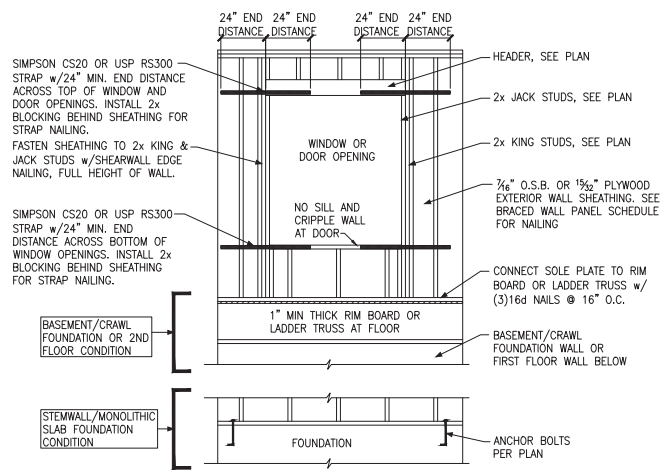




A METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
ONE BRACED WALL SEGMENT



B METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
TWO BRACED WALL SEGMENTS



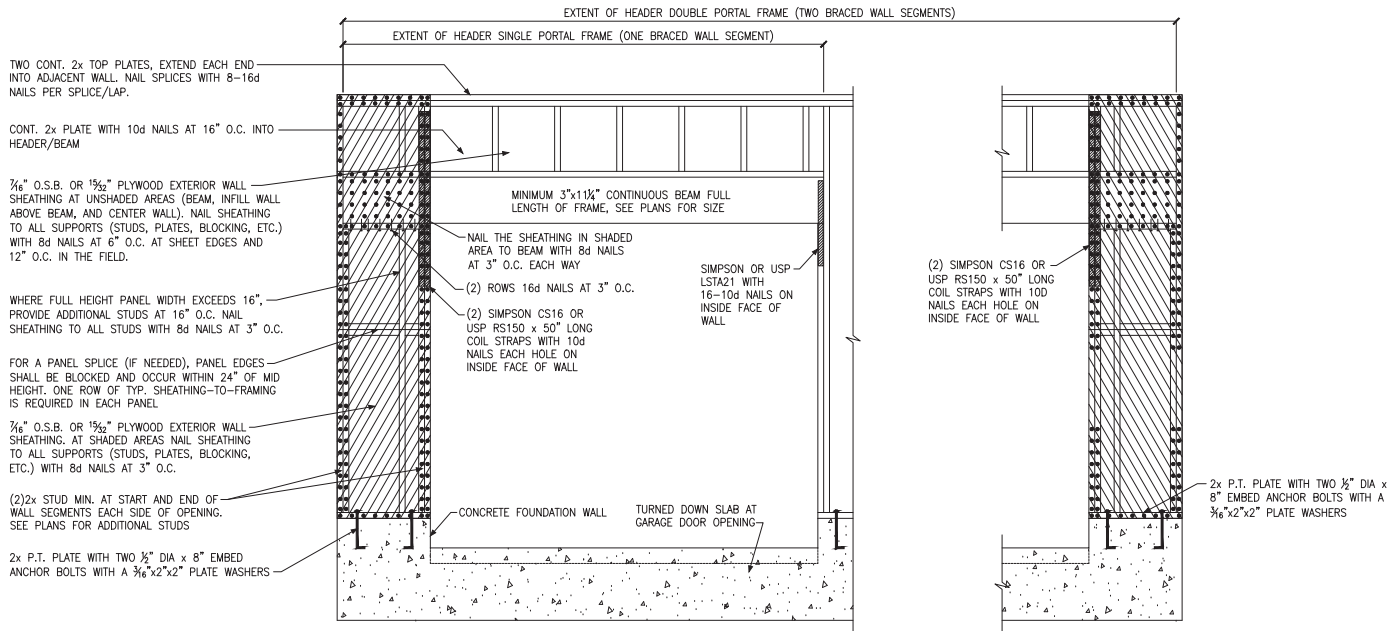
C WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL
ONLY REQUIRED WHERE SPECIFIED ON PLANS

| BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE | | | |
|--|--|-------------|---|
| PANEL TYPES | PANEL TYPE | MATERIAL | FASTENERS |
| WSP | INTERMITTENT WOOD STRUCTURAL PANEL | 7/16" OSB | 6d or 8d COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS |
| GB(1) | INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL) | 1/2" GYPSUM | 1.5" LONG GAL. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS. |
| GB(1)-4 | INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL) | 1/2" GYPSUM | 1.5" LONG GAL. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS. |
| GB(2) | INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL) | 1/2" GYPSUM | 1.5" LONG GAL. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS. |
| CS-WSP | CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL | 7/16" OSB | 6d or 8d COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS |
| CS-PF | CONTINUOUS SHEATHED PORTAL FRAME | 7/16" OSB | NAILING PER DETAIL |
| CS-EPF | PORTAL FRAME WITH HOLD DOWNS | 7/16" OSB | NAILING PER DETAIL |
| CS-ESW(1) | ENGINEERED SHEAR WALL, TYPE 1 | 7/16" OSB | 8d COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS |
| CS-ESW(2) | ENGINEERED SHEAR WALL, TYPE 2 | 7/16" OSB | 8d COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS |
| CS-ESW(3) | ENGINEERED SHEAR WALL, TYPE 3 | 7/16" OSB | 8d COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS |

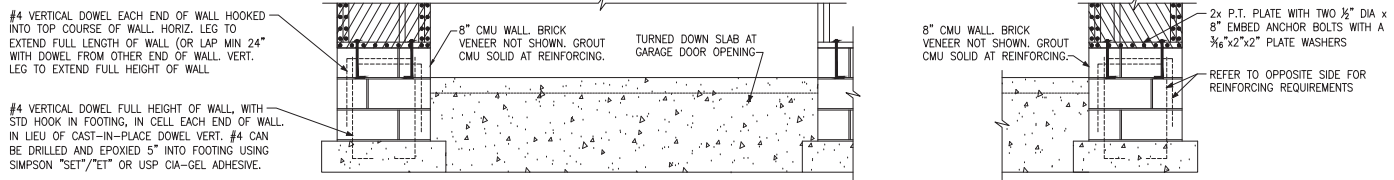
BRACED WALL PANEL NOTES:

- ALL BRACED WALL PANELS SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES, EXCEPT INTERMITTENT GYPSUM BOARD PANEL TYPES INSTALLED HORIZONTALLY.
- PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH 7/16" O.S.B. OR 1/2" PLYWOOD, FASTENED PER IRC. AT EXTERIOR CORNERS, SHEATHING SHALL BE FASTENED PER KSE BRACED WALL DETAILS. AT INTERIOR WALL INTERSECTIONS, FASTEN STUDS & WALL BRACING PER KSE BRACED WALL DETAILS.
- BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.

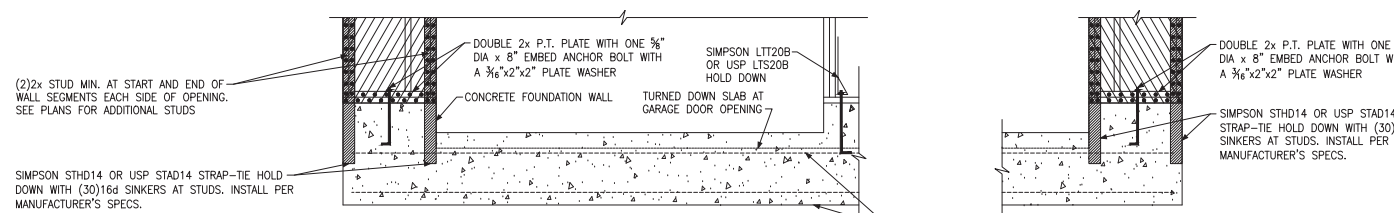




A METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
MONOLITHIC SLAB OR BASEMENT FOUNDATION

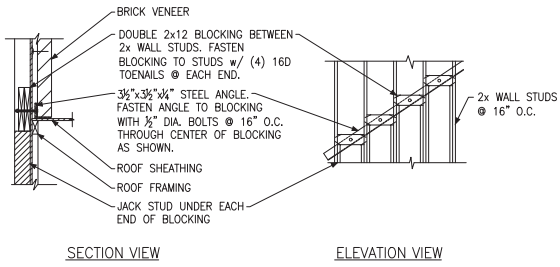


B METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
STEMWALL SLAB OR CRAWL SPACE FOUNDATION

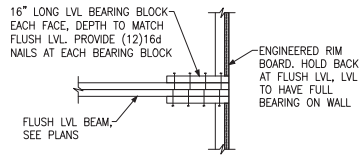


C METHOD CS-EPF: ENGINEERED PORTAL FRAME WITH HOLD-DOWNS
CONTINUOUS #4 HIGH AND LOW. PROVIDE MIN 24" LAPS WHERE SPLICED.

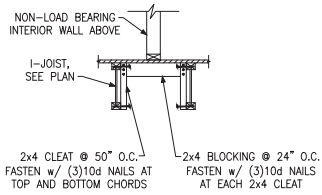




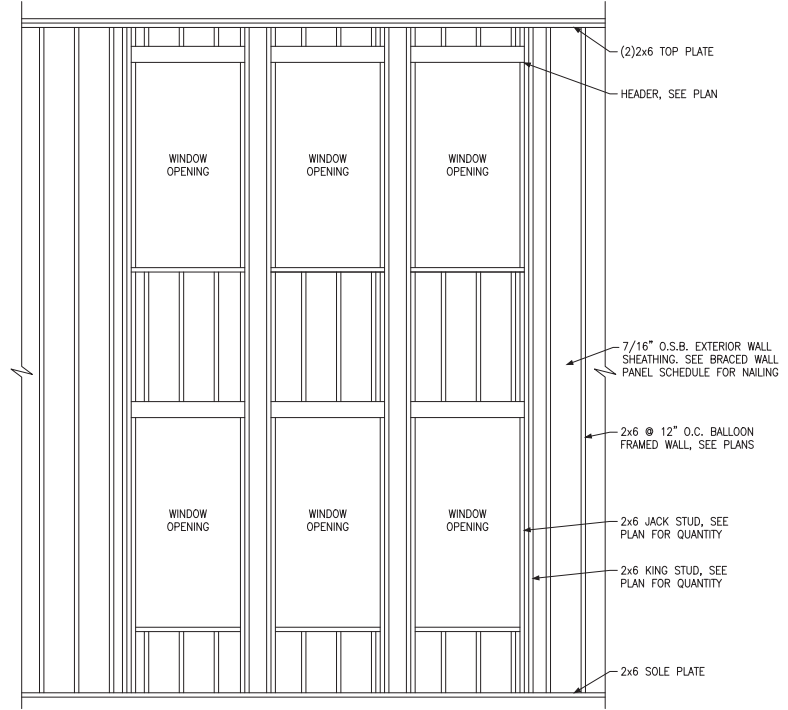
(A) BRICK LEDGER CONNECTION DETAIL



(B) BEARING ENHANCER FLUSH LVL



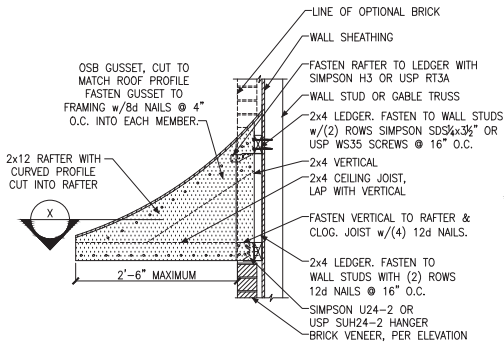
(C) I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS



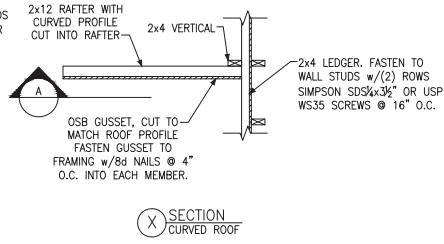
(D) BALLOON FRAMED WALL DETAIL N.T.S.

| WALL STUD SIZE, HEIGHT & SPACING SCHEDULE | | | | | | |
|---|-----------------------------------|---|---|--|-----------------------------------|-----------------|
| STUD SIZE | BEARING WALLS | | | | NONBEARING WALLS | |
| | LATERALLY UNSUPPORTED STUD HEIGHT | MAXIMUM SPACING WHEN SUPPORTING A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY | MAXIMUM SPACING WHEN SUPPORTING ONE FLOOR, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY | MAXIMUM SPACING WHEN SUPPORTING TWO FLOORS, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY | LATERALLY UNSUPPORTED STUD HEIGHT | MAXIMUM SPACING |
| 2x4 | 10'-0" | 24" | 16" | - | 14'-0" | 24" |
| 2x6 | 10'-0" | 24" | 24" | 16" | 20'-0" | 24" |

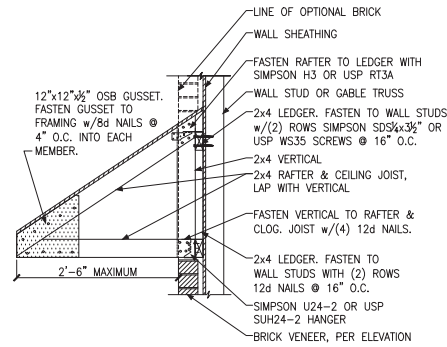




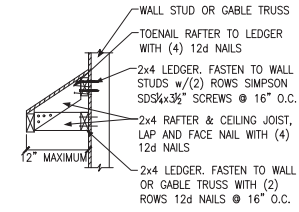
A PENT ROOF DETAIL
CURVED ROOF



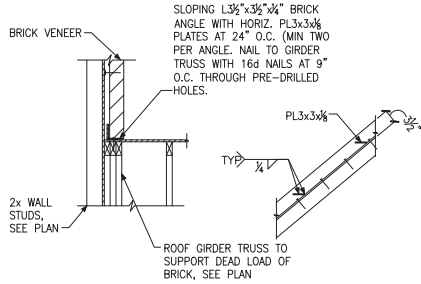
X SECTION
CURVED ROOF



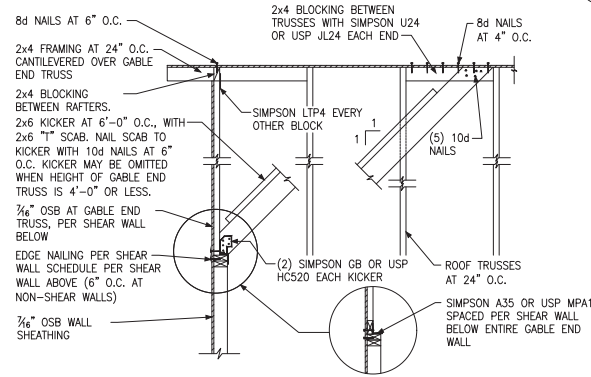
B PENT ROOF DETAIL
STRAIGHT ROOF



C EYEBROW ROOF DETAIL
STRAIGHT ROOF

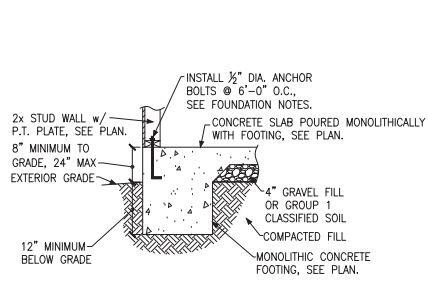


D TRUSS DETAIL

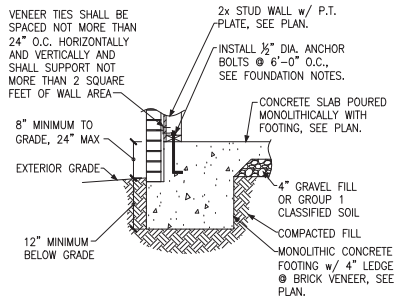


E GABLE END WALL DETAIL

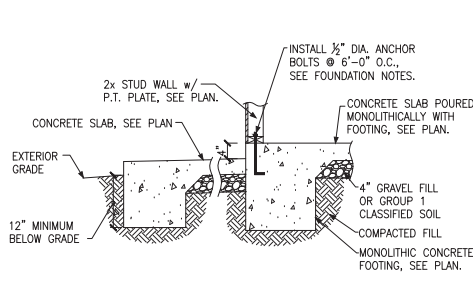




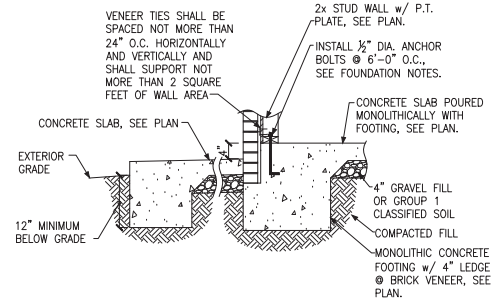
A FOUNDATION SECTION
EXTERIOR WALL



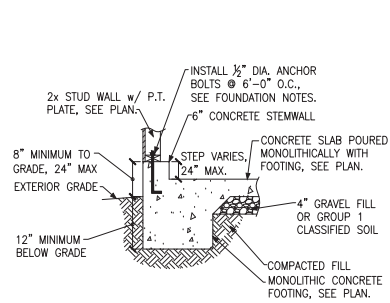
B FOUNDATION SECTION
EXTERIOR WALL @ BRICK VENEER



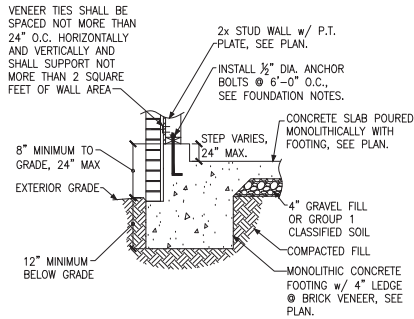
C FOUNDATION SECTION
EXTERIOR WALL AT PORCH



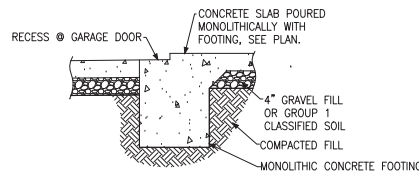
D FOUNDATION SECTION
EXTERIOR WALL AT PORCH w/ BRICK VENEER



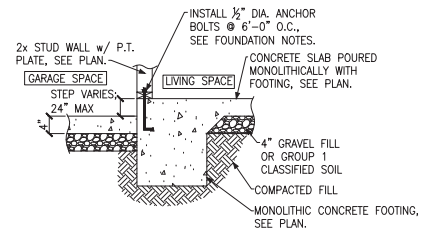
E FOUNDATION SECTION
EXTERIOR GARAGE WALL



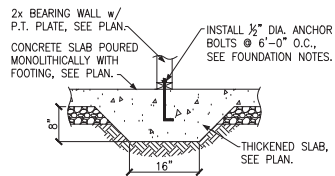
F FOUNDATION SECTION
EXTERIOR GARAGE WALL @ BRICK VENEER



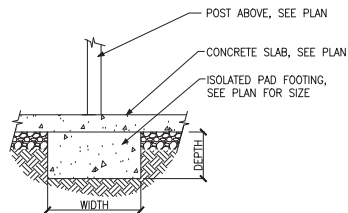
G GARAGE DOOR SECTION
GARAGE DOOR



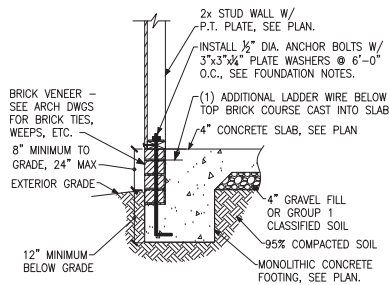
H THICKENED SLAB
AT GARAGE



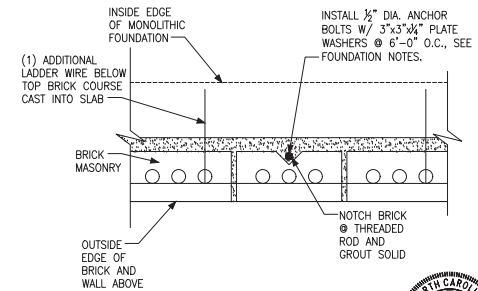
J THICKENED SLAB SECTION
INTERIOR BEARING WALL



K ISOLATED PAD FOOTING
INTERIOR COLUMN

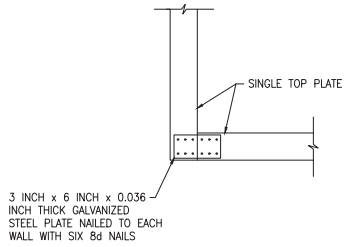


L FOUNDATION SECTION
ALTERNATE EXTERIOR WALL

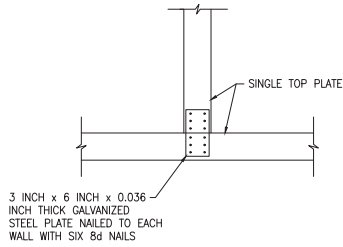


M FOUNDATION SECTION
ALTERNATE EXTERIOR WALL

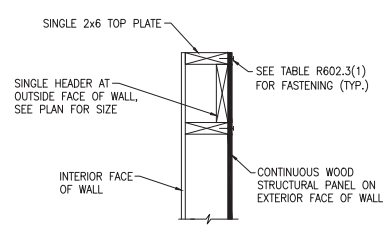




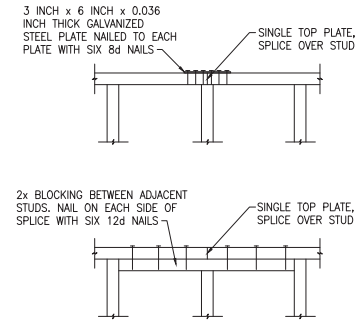
A SINGLE TOP PLATE SPLICE
WALL INTERSECTION



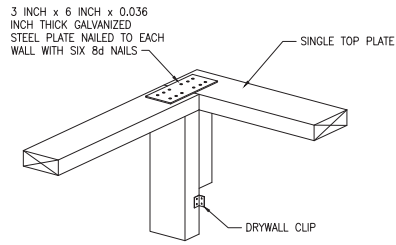
B SINGLE TOP PLATE SPLICE
WALL INTERSECTION



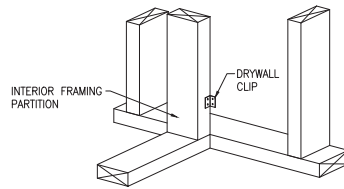
C SINGLE LOAD BEARING HEADER
EXTERIOR WALL



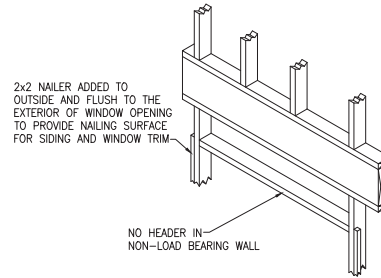
D SINGLE TOP PLATE SPLICE
INTERIOR OR EXTERIOR WALL



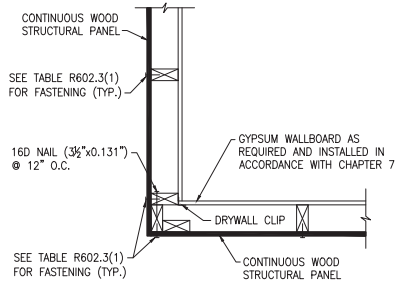
E SINGLE TOP PLATE SPLICE
WALL INTERSECTION



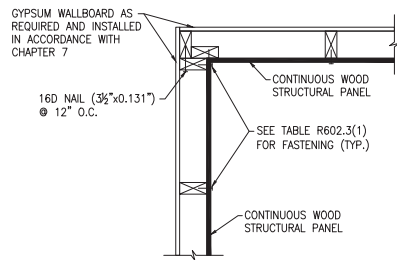
F SINGLE TOP PLATE SPLICE
WALL INTERSECTION



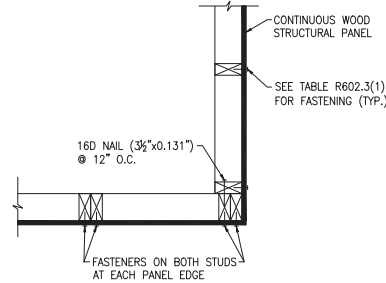
G NON-LOAD BEARING HEADER
EXTERIOR WALL



H TYPICAL EXTERIOR CORNER FRAMING
OUTSIDE CORNER DETAIL



J TYPICAL EXTERIOR CORNER FRAMING
INSIDE CORNER DETAIL



K TYPICAL EXTERIOR CORNER FRAMING
GARAGE DOOR CORNER DETAIL

ADVANCED FRAMING NOTES

- 1.) EXTERIOR WALLS TO BE 2x6 S.P.F. STUDS @ 24" O.C. WITH SINGLE TOP PLATE. TOP PLATE TO BE SPLICED PER NC RESIDENTIAL CODE.
- 2.) INTERIOR BEARING WALLS TO BE PER NC RESIDENTIAL CODE.
- 3.) ROOF TRUSSES AND FLOOR JOISTS ARE TO BE STACKED AND CENTERED OVER STUDS WITH A TOLERANCE OF NO MORE THAN 1 INCH. ADDITIONAL STUDS ARE TO BE ADDED WHERE THE ROOF TRUSSES AND FLOOR JOISTS ARE NOT STACKED OVER STUDS WITHIN 1" TOLERANCE.
- 4.) INTERIOR NON-LOAD BEARING WALLS TO BE 2x4 S.P.F. STUDS @ 24" O.C. WITH SINGLE TOP PLATE. TOP PLATE TO BE SPLICED PER NC RESIDENTIAL CODE.
- 5.) LOAD-BEARING HEADERS ARE NOT REQUIRED IN INTERIOR OR EXTERIOR NONBEARING WALLS. A SINGLE FLAT 2x MEMBER MAY BE USED AS A HEADER IN INTERIOR OR EXTERIOR NONBEARING WALLS FOR OPENINGS UP TO 8 FEET IN WIDTH IF THE VERTICAL DISTANCE TO THE PARALLEL NAILING SURFACE IS NOT MORE THAN 24 INCHES. FOR SUCH NONBEARING HEADERS, NO CRIPPLES OR BLOCKING ARE REQUIRED ABOVE THE HEADER.

