

# PLANS FOR: Lot 24, Providence Creek



# MATTAMY HOMES - VOYAGEUR RH



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| ABBREVIATION LEGEND |                       |       |                         | PLAN SET COMPOSITION |                             | ELEVATION |                          |
|---------------------|-----------------------|-------|-------------------------|----------------------|-----------------------------|-----------|--------------------------|
| AB                  | Anchor Bolt           | EQ    | Equal                   | MIN                  | Minimum                     | SQ        | Square                   |
| ABV                 | Above                 | E.W.  | Each Way                | MIR                  | Mirror                      | SS        | Solid Surface            |
| AC                  | Air Conditioner       | EXIST | Existing                | MISC                 | Miscellaneous               | SS        | Sanitary Sewer           |
| ACC                 | Access/ Accessible    | EXP   | Exposed                 | MM                   | Millimeter                  | SST       | Stainless Steel          |
| ACFL                | Access Floor          | EXT   | Exterior                | MO                   | Masonry Opening             | ST        | Steel                    |
| ADJ                 | Adjacent              | F.A.  | Flat Archway            | MOV                  | Movable                     | STA       | Station                  |
| ADJ                 | Adjustable            | FD    | Floor Drain             | MTD                  | Mounted                     | STC       | Sound Transmission Class |
| AFF                 | Above Finished Floor  | FDTN  | Foundation              | MTFR                 | Metal Furring               | STD       | Standard                 |
| AGGR                | Aggregate             | FF    | Finish Floor            | MTL                  | Metal                       | STOR      | Storage                  |
| ALT                 | Alternate             | FG    | Fixed Glass             | MULL                 | Mullion                     | STRUCT    | Structural               |
| ALUM                | Aluminum              | FIN   | Finish                  | NIC                  | Not In Contract             | SYS       | System                   |
| ANC                 | Anchor/Anchorage      | FLEX  | Flexible                | NOM                  | Nominal                     | T         | Tread                    |
| AP                  | Access Panel          | FLR   | Floor                   | NR                   | Noise Reduction             | T.A.      | Trimmed Archway          |
| APPROX              | Approximate           | F.O.  | Framed Opening          | NRC                  | Noise Reduction Coefficient | TB        | Towel Bar                |
| ARCH                | Architect(ural)       | FOC   | Face of Concrete        | NTS                  | Not to Scale                | TEL       | Telephone                |
| AUTO                | Automatic             | FOF   | Face of Finish          | OA                   | Overall                     | TEMP      | Temporary/ Temperature   |
| BD                  | Board                 | FOM   | Face of Masonry         | OC                   | On Center                   | T&G       | Tongue and Groove        |
| BLDG                | Building              | FOS   | Face of Studs           | OD                   | Outside Diameter            | THK       | Thick(ness)              |
| BLK                 | Block(ing)            | FPL   | Fireplace               | OH                   | Overhead (Overhang)         | THRES     | Threshold                |
| BOC                 | Bottom of Curb        | FR    | Frame                   | OPNG                 | Opening                     | TJ        | Triple Joist             |
| BRG                 | Bearing               | FTG   | Footing                 | PED                  | Pedestal                    | TMPD      | Tempered                 |
| BRG PL              | Bearing Plate         | FUR   | Furring/ Furred         | PL                   | Plate                       | TOC       | Top of Curb/ Concrete    |
| BSMT                | Basement              | GA    | Gauge                   | PL                   | Property Line               | TOL       | Tolerance                |
| BUR                 | Built up Roof         | GALV  | Galvanized              | PLAM                 | Plastic Laminate            | TOS       | Top of Slab              |
| C.A.                | Curved Archway        | GD    | Grade/ Grading          | PLAS                 | Plastic                     | TOST      | Top of Steel             |
| CAB                 | Cabinet               | GL    | Glass/ Glazing          | PLAS                 | Plaster                     | TOW       | Top of Wall              |
| CB                  | Catch Basin           | G.T.  | Girder Truss            | PL GL                | Plate Glass                 | TPD       | Toilet Paper Dispenser   |
| CER                 | Ceramic               | GYP   | Gypsum                  | PLYWD                | Plywood                     | TV        | Television               |
| CIR                 | Circle                | HB    | Hose Bib                | PNL                  | Panel                       | TYP       | Typical                  |
| CJ                  | Control Joint         | HC    | Hollow Core             | P.T.                 | Pressure Treated Lumber     | UFIN      | Unfinish(ed)             |
| CLG                 | Ceiling               | HDBD  | Hard Board              | PT                   | Paint(ed)                   | UNO       | Unless Noted Otherwise   |
| CLG HT              | Ceiling Height        | HDR   | Header                  | PT                   | Point                       | UR        | Urinal                   |
| CLO                 | Closet                | HM    | Hollow Metal            | PT                   | Porcelain Tile              | VB        | Vinyl Base               |
| CM                  | Centimeter            | HORIZ | Horizontal              | PTN                  | Partition                   | VCT       | Vinyl Composition Tile   |
| CMU                 | Concrete Masonry Unit | HP    | High Point              | PR                   | Pair                        | VER       | Verify                   |
| COL                 | Column                | HT    | Height                  | PRKG                 | Parking                     | VERT      | Vertical                 |
| CONC                | Concrete              | HTG   | Heating                 | PSI                  | Pounds per Square Inch      | VEST      | Vestibule                |
| CONST               | Construction          | HVAC  | Heating/ Ventilation/   | PVC                  | Polyvinyl Chloride          | VF        | Vinyl Flooring           |
| CONT                | Continuuous/ Continue |       | Air Conditioning        | PVMT                 | Pavement                    | VJ        | V(ee) Joint              |
| CORR                | Corridor              | ID    | Inside Diameter         | QT                   | Quarry Tile                 | VNR       | Veneer                   |
| CPB                 | Carpet Base           | INCL  | Include(d)              | R                    | Radius                      | VWC       | Vinyl Wall Covering      |
| CPT                 | Carpet                | INSUL | Insulate/ Insulation    | R                    | Riser                       | WB        | Wood Base                |
| CSMT                | Casement              | INT   | Interior                | RA                   | Return Air                  | WD        | Wood                     |
| CT                  | Ceramic Tile          | INV   | Invert                  | RB                   | Rubber Base                 | WDW       | Window                   |
| CTR                 | Center                | J-Box | Junction Box            | RCP                  | Reinforced Concrete Pipe    | WGL       | Wired Glass              |
| CU FT               | Cubic Foot            | JST   | Joist                   | RD                   | Roof Drain                  | WH        | Water Heater             |
| CU YD               | Cubic Yard            | JT    | Joint                   | REF                  | Reference                   | WM        | Wire Mesh                |
| CWT                 | Ceramic Wall Tile     | Kit   | Kitchen                 | REFR                 | Refrigerator                | W/O       | Without                  |
| DBL                 | Double                | L     | Length                  | REINF                | Reinforced                  | WPT       | Working Point            |
| DH                  | Double Hung           | LAM   | Laminate                | REQD                 | Required                    | WSC       | Wainscot                 |
| DIA                 | Diameter              | LB    | Lag Bolt                | RESIL                | Resilient                   | WT        | Wall Tile                |
| DIAG                | Diagonal              | LH    | Left Hand               | RET                  | Return                      | WT        | Weight                   |
| DIM                 | Dimension             | LT    | Light                   | REV                  | Revision                    | WWF       | Welded Wire Fabric       |
| DISP.               | Garbage Disposal      | LTL   | Lintel                  | RFG                  | Roofing                     |           |                          |
| DJ                  | Double Joist          | LT WT | Light Weight            | RM                   | Room                        | €         | Center Line              |
| DN                  | Down                  | LVL   | Laminated Veneer Lumber | RO                   | Rough Opening               | C         | Channel                  |
| DP                  | Deep                  | LVR   | Louwer                  | ROW                  | Right of Way                | PL        | Plate                    |
| DS                  | Downspout             | M     | Meter                   | RVS                  | Reverse                     | ±         | Plus or Minus            |
| DTL                 | Detail                | MAS   | Masonry                 | SCHED                | Schedule                    | ℓ         | Property Line            |
| DWG                 | Drawing               | MATL  | Material                | SD                   | Storm Drain                 |           |                          |
| DWR                 | Drawer                | MAX   | Maximum                 | SECT                 | Section                     |           |                          |
| EA                  | Each                  | MC    | Medicine Cabinet        | SF                   | Square Foot                 |           |                          |
| EJ                  | Expansion Joint       | MECH  | Mechanical              | SHT                  | Sheet                       |           |                          |
| ELEC                | Electric              | MED   | Medium                  | SHT GL               | Sheet Glass                 |           |                          |
| ELEV                | Elevation             | MEMB  | Membrane                | SHWR                 | Shower                      |           |                          |
| EMER                | Emergency             | MFR   | Manufacture(er)(ing)    | SIM                  | Similar                     |           |                          |
| EPB                 | Electric Panel Board  | MH    | Man Hole                | SPEC                 | Specification               |           |                          |

| PAGE #      | LAYOUT                  | ELEVATION   |                              |  |  |  |  |
|-------------|-------------------------|---|------------------------------|--|--|--|--|
|             |                         | T1.0-T1.1   | TITLE SHEET AND REVISION LOG |  |  |  |  |
| GN1.0-GN1.1 | GENERAL NOTES           |   |                              |  |  |  |  |
| 0.10-0.19   | ELEVATIONS              |   |                              |  |  |  |  |
| 0.20-0.21   | BASEMENT FLOOR PLANS    |   |                              |  |  |  |  |
| 1.0-1.4     | 1ST FLOOR PLANS         |   |                              |  |  |  |  |
| 2.0-2.2     | 2ND FLOOR PLANS         |   |                              |  |  |  |  |
| 3.0-3.1     | 3RD FLOOR PLANS         |   |                              |  |  |  |  |
| 4.0-4.1     | SECTIONS / DETAILS      |   |                              |  |  |  |  |
| 5.0-8.0     | ELECTRICAL / HVAC PLANS |   |                              |  |  |  |  |
|             |                         | <b>FARMHOUSE</b>  |                              |  |  |  |  |
|             |                         | <b>CODE</b>   |                              |  |  |  |  |
|             |                         | 2018<br>NORTH CAROLINA STATE BUILDING CODE:<br>RESIDENTIAL CODE |                              |  |  |  |  |

| VOYAGEUR SQUARE FOOTAGES                   |                     |                     |                     |                     |                     |  |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|--|
| AREA                                       | COLONIAL            | CRAFTSMAN           | FRENCH COUNTRY      | TUDOR               | FARM HOUSE          |  |
| 1st FLOOR                                  | 1373 SQ. FT.        | 1373 SQ. FT.        | 1373 SQ. FT.        | 1373 SQ. FT.        | 1373 SQ. FT.        |  |
| 2nd FLOOR                                  | 1812 SQ. FT.        | 1812 SQ. FT.        | 1823 SQ. FT.        | 1823 SQ. FT.        | 1812 SQ. FT.        |  |
| TOTAL LIVING                               | <b>3185 SQ. FT.</b> | <b>3185 SQ. FT.</b> | <b>3197 SQ. FT.</b> | <b>3196 SQ. FT.</b> | <b>3185 SQ. FT.</b> |  |
| GARAGE - 2 CAR                             | 501 SQ. FT.         | 501 SQ. FT.         | 501 SQ. FT.         | 501 SQ. FT.         | 501 SQ. FT.         |  |
| FRONT PORCH COVERED                        | 66 SQ. FT.          | 142 SQ. FT.         | 66 SQ. FT.          | 66 SQ. FT.          | 142 SQ. FT.         |  |
| FRONT PORCH COVERED W/ 4' GARAGE EXTENSION | 95 SQ. FT.          | 208 SQ. FT.         | 95 SQ. FT.          | 95 SQ. FT.          | 208 SQ. FT.         |  |
| GLOBAL OPTIONAL SQUARE FOOTAGES            |                     |                     |                     |                     |                     |  |
| OPT. COVERED VERANDA                       |                     |                     |                     |                     | 120 SQ. FT.         |  |
| OPT. SCREENED PORCH                        |                     |                     |                     |                     | 120 SQ. FT.         |  |
| OPT. MORNING ROOM                          |                     |                     |                     |                     | 120 SQ. FT.         |  |
| GARAGE - 2 CAR W/ 4 EXTENSION              |                     |                     |                     |                     | 593 SQ. FT.         |  |
| SECOND FLOOR W/ 4' GARAGE EXTENSION PPO    |                     |                     |                     |                     | 92 SQ. FT.          |  |
| OPT. THIRD CAR GARAGE                      |                     |                     |                     |                     | 234 SQ. FT.         |  |

CLIENT: MATTAMY HOMES

PROJECT: VOYAGEUR - RH

LOCATION: NORTH CAROLINA

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

PROJECT NO.: 23900833

DATE: 09/08/2023

DRAWN BY: CAR

TITLE SHEET

**T1.0**

# PLAN REVISION LOG

| DATE       | REVISION DESCRIPTION  | SHEETS                   | DFTR |
|------------|---|--------------------------|------|
| -/-        | PLAN CD RELEASE DATE  | ALL                      | -    |
| 07/14/2022 | ADDED RIDGE VENT AND REVISED ELEVATION NOTES. ADDED BAND BOARD TO FH ELEVATION ON BOARD & BATTEN AREA. REMOVED METAL ROOF ON FH FRONT PORCH. CHANGED STAIRWELL WALL TO A DOUBLE 2X4 WALL. REVISED PULL DOWN STAIR LOCATION. MADE STAND-UP SHOWER & SECOND SINK STANDARD IN OWNER'S BATH. REMOVED KNEESPACE NOTE ON OWNER'S BATH & SECONDARY BATHS. ADDED STAIR SECTION. REMOVED ALL ELECTRICAL OUTLETS OTHER THAN HALF-HOT, GFIs, WPGFIs, & 220V. | ALL                      | VLT  |
| 10/13/2022 | ADDED 4' GARAGE EXTENSION PPO. CHANGED "ENHANCED SIDE ELEVATION" TO "UPGRADE SIDE ELEVATION". REMOVED SPA SHOWER BATH PPO   | 0.13, 1.2, 2.2, 6.2, 7.2 | VLT  |
| 11/30/2022 | REVISED STONE ON CRAFTSMAN, FRENCH COUNTRY, & TUDOR ELEVATIONS. CREATED RALEIGH SPECIFIC ELECTRICAL PAGES.  | ALL                      | VLT  |
| 01/13/2023 | CREATED 9' SECOND FLOOR ELEVATION PAGES. REVISED WINDOW IN LOFT OF CRAFTSMAN PER ELEVATION LOCATION   | 0.14-017, 2.0, 2.2       | VLT  |
| 03/21/2023 | CREATED THIRD CAR GARAGE ELEVATION PAGES & PPO. RENAMED SUNROOM TO MORNING ROOM. RENAMED COVERED PORCH TO COVERED VERANDA.  | ALL                      | VLT  |
| 05/18/2023 | CREATED SIDE LOAD GARAGE PPO & ELEVATION PAGES. REVISED SUPER SHOWER PPO. CREATED ENHANCED SIDE ELEVATIONS FOR COLONIAL & FARMHOUSE ELEVATIONS  | ALL                      | VLT  |
| 07/31/2023 | REVISED STAIRWELL WALL TO BE 2x6 WALL.  | 1.0                      | VLT  |
| 09/08/2023 | RECENTERED FOYER OPENINGS. RENAMED SIGNATURE KITCHEN TO GOURMET KITCHEN. REVISED KNEEWALL HEIGHT AT STAIRS. REVISED SLIDER DOOR LABEL.  | 1.0, 1.1, 1.2, 2.0, 2.2  | VLT  |
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| LOCATION:  | NORTH CAROLINA |
| SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED |                |

PROJECT NO.: **23900833**

DATE: **09/08/2023**      DRAWN BY: **CAR**

REVISION LOG

T1.1

1. ROOF CONSTRUCTION  
 ROOF SHINGLES OVER #15 FELT PAPER (DOUBLE LAYER UNDERLAYMENT FOR ROOFS WITH A PITCH OF LESS THAN 4:12), 7/16" OSB SHEATHING WITH "H" CLIPS ON APPROVED ROOF TRUSSES. (SEE ROOF TRUSS DESIGNS). PREFIN. ALUM. EAVESTROUGH, FASCIA, & VENTED SOFFIT U.N.O. (REFER TO SHEET GN1.1 FOR N.C. ENERGY REQUIREMENTS.)

ROOF VENTILATION  
 OPTION 1: MIN. VENTILATION AREA OF 1:300 OF TOTAL ATTIC AREA WITH MIN. 50% & MAX. 80% OF REQUIRED CROSS VENTILATION PROVIDED VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE ARE MIN. 36" ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS  
 OPTION 2: MIN. VENTILATION AREA OF 1:300 OF TOTAL ATTIC AREA WITH REDUCTION IN CROSS VENTILATION WITH USE OF VAPOR BARRIER LOCATED BETWEEN INSULATION & DRYWALL.

2. FRAME WALL CONSTRUCTION (2"x4") - SIDING  
 SIDING AS PER ELEVATION, APPROVED HOUSE WRAP, 7/16" OSB EXTERIOR SHEATHING, 2"x4" STUDS @ 16" O.C. TO 10' MAX HEIGHT. R13 BATT INSULATION, 1/2" INT. DRYWALL FINISH. (REFER TO SHEET GN1.1 FOR N.C. ENERGY REQUIREMENTS.)

3. FRAME WALL CONSTRUCTION (2"x4") - STONE  
 SYNTHETIC STONE, SCRATCH COAT PER MANUFACTURERS SPECS. OVER GALV. MTL. LATH & APPROVED WEATHER RESISTANT BARRIER, 7/16" OSB EXTERIOR SHEATHING, 2"x4" STUDS @ 16" O.C. TO 10' MAX. HEIGHT. 1/2" INT. DRYWALL FINISH. (REFER TO SHEET GN1.1 FOR N.C. ENERGY REQUIREMENTS.)

4. DRAINAGE  
 SITE SHALL GRADE TO PROVIDE DRAINAGE UNDER ALL PORTIONS OF STRUCTURE & TO DRAIN SURFACE WATER AWAY FROM THE STRUCTURE. GRADE SHALL FALL 6" WITHIN FIRST 10'. ALL PLUMBING WORK SHALL COMPLY WITH THE CURRENT RESIDENTIAL & PLUMBING CODES.

5. GROUND FLOOR SLAB ON GRADE  
 CONCRETE SLAB PER STRUCTURAL DRAWINGS OVER CLEAN TERMITE TREATED COMPACT FILL. CHEMICAL PRE-TREATMENT OF SOIL IS REQUIRED BEFORE CASTING OF SLAB. SAW CUT EVERY #200 S.F.

6. EXPOSED FLOOR TO EXTERIOR  
 PROVIDE MIN. R19 BATT INSULATION IN FLOORS BETWEEN CONDITIONED & UNCONDITIONED SPACES, APPROVED HOUSE WRAP, FINISHED SOFFIT.

7. ATTIC INSULATION: refer TO SHEET GN1.1. FOR N.C. REQUIREMENT. 1/2" INT. DRYWALL CEILING FINISH OR APPROVED EQUAL

8. INTERIOR STAIRS: SITE BUILT  
 1. STRINGERS SHALL BE 2"x12" SYP.#2 (PRESSURE TREATED AT BASE) EQUALLY SPACED & ANCHORED TO 2"x8" HEADER & P.T. 2"x4" PLATE  
 2. TREADS SHALL BE 2"x12" SYP.#2 RIPPED DOWN AS REQUIRED. (GLUED & NAILED)  
 3. RISERS SHALL BE 1"x8" SYP.#2 RIPPED DOWN AS REQUIRED. (GLUED & NAILED)  
 4. MIN. TREAD = 9"  
 MAX. NOSING = 1-1/4"  
 MIN. TREAD & NOSING = 9-3/4"  
 MAX. RISER = 8-1/4"  
 MIN. HEADROOM = 6'-8"  
 MAX. VERTICAL RISE FOR FLIGHT OF STAIRS = 12'-0"  
 MIN. STAIR WIDTH = 3'-0"  
 MIN. CLEAR STAIR WIDTH = 31.5"

FOR WINDER STAIRS  
 MIN. WINDER TREAD MEASURED 12" FROM INSIDE EDGE = 9"  
 MIN. WINDER TREAD MEASURED AT ANY POINT = 4"  
 MAX. WINDER DEPTH = 12"

9. HAND RAIL  
 MIN. STAIR / RAMP HANDRAIL HEIGHT = 34"  
 MAX. STAIR / RAMP HANDRAIL HEIGHT = 38"  
 MIN. INTERIOR GUARD HEIGHT = 36"  
 MIN. EXTERIOR GUARD HEIGHT = 36"

FINISHED RAILING AND GUARD RAIL PICKETS SHALL BE SPACED 4" O.C. MAXIMUM BETWEEN PICKETS. GUARDS AND RAILINGS SHALL NOT HAVE OPENINGS FROM THE WALKING SURFACE TO THE REQUIRED GUARD HEIGHT WHICH ALLOW THE PASSAGE OF A SPHERE 4" IN DIAMETER.

10. WALLS BACKING ONTO ATTIC  
 WALLS WHICH SEPARATE CONDITIONED LIVING SPACE FROM UNCONDITIONED ATTIC SPACE SHALL BE INSULATED AND SEALED WITH AN AIR BARRIER SYSTEM TO LIMIT INFILTRATION. IE. VAULTED CEILING, SKYLIGHT, RAISED COFFERED CEILING. (REFER TO SHEET GN1.1 FOR N.C. ENERGY REQUIREMENTS.)

11. BEAM POCKET OR 8"x8" CONCRETE BLOCK NIB WALLS. MINIMUM BEARING 3-1/2".

12. WALL & CEILING BETWEEN GARAGE & LIVING SPACE  
 5/8" TYPE 'X' DRYWALL ON CEILING OF GARAGE W/ LIVING SPACE ABOVE & 1/2" DRYWALL ON WALLS SUPPORTING 5/8" TYPE 'X' CWB W/ HABITABLE SPACE ABOVE AND BETWEEN HOUSE AND GARAGE. INSULATE WALLS AND CEILING BETWEEN GARAGE AND CONDITIONED SPACE. TAPE, SEAL & STRUCTURALLY SUPPORT ALL JOINTS, IN ORDER TO BE GAS/FUME TIGHT. (REFER TO SHEET GN1.1 FOR N.C. ENERGY REQUIREMENTS.)

13. DOOR AND FRAME GASPROOFED. DOOR EQUIPPED WITH SELF CLOSING DEVICE AND WEATHERSTRIPPING.

14. CLOTHES DRYER VENT  
 DRYER EXHAUST VENTED TO EXTERIOR & EQUIPPED W/ BACK DRAFT DAMPER. MAX. 35' DUCT LENGTH FROM THE CONNECTION TO THE TRANSITION DUCT FROM THE DRYER TO THE OUTLET TERMINAL. WHERE FITTINGS ARE USED REFER TO MECHANICAL CODE FOR MAX. LENGTH REDUCTIONS. SEAL WITH NON-COMBUSTIBLE MATERIAL, APPROVED FIRE CAULKING OR NON COMBUSTIBLE DRYER EXHAUST DUCT WALL RECEPTACLE

15. ATTIC ACCESS  
 ATTIC ACCESS HATCH 20"x30" WITH WEATHER- STRIPPING INTO ANY ATTIC EXCEEDING 30 SF x 30" VERT. HEIGHT. ALLOW 30" HEADROOM IN ATTIC AT HATCH LOCATION. r-10 MIN INSULATION  
 OR  
 PULL DOWN STAIR (PDS) (SIZE PER PLAN) WITH WEATHER-STRIPPING & INSULATED WITH (R5) RIGID INSULATION. (NON-RIGID INSULATION MATERIALS ARE NOT ALLOWED)

16. FIREPLACE CHIMNEYS  
 TOP OF FIREPLACE CHIMNEY SHALL BE MIN. 3'-0" ABOVE THE HIGHEST POINT AT WHICH IT COMES IN CONTACT WITH THE ROOF AND 2'-0" ABOVE THE ROOF SURFACE WITHIN A HORIZ. DISTANCE OF 10'-0" FROM THE CHIMNEY.

17. LINEN CLOSET OR PANTRY W/ MIN. 12" DEEP SHELVES. PROVIDE MAX. OF 4 SHELVES.

18. MECHANICAL VENTILATION  
 MECHANICAL EXHAUST FAN, VENTED DIRECTLY TO EXTERIOR, TO PROVIDE 50cfm INTERMITTENT OR 20cfm CONTINUOUS IN BATHROOMS & TOILET ROOMS. PROVIDE DUCT SCREEN. SEE HVAC DESIGNS

19. CABINET BLOCKING  
 36" A.F.F. FOR BASE CABINETS  
 54" A.F.F. FOR BOTTOM OF UPPER CABINETS  
 84" A.F.F. FOR TOP OF A 30" UPPER CABINET  
 96" A.F.F. FOR TOP OF OPTIONAL 42" UPPIERS

20. STUD WALL REINF. FOR HANDICAP BATHROOM  
 WHERE HANDICAPPED ACCESSIBILITY IS REQUIRED, PROVIDE WOOD BLOCKING REINFORCEMENT TO STUD WALLS FOR GRAB BAR INSTALLATION IN BATHROOM, 33"-36" A.F.F. BEHIND TOILET. 33" A.F.F. ON THE WALL OPPOSITE THE THE ENTRANCE TO THE BATHTUB OR SHOWER

21. RANGE HOOD VENT  
 RANGE HOOD VENTED TO EXTERIOR. & EQUIPPED W/ BACK DRAFT DAMPER. MICROWAVES LOCATED ABOVE A COOKING APPLIANCE SHALL CONFORM TO UL923.

22. SLAB ON GRADE PORCH  
 CONCRETE SLAB PER STRUCTURAL DRAWINGS OVER CLEAN TERMITE TREATED COMPACT FILL. SUBTERRANEAN TERMITE POST-TREATMENT MAY BE BORACARE APPLIED TO GROUND FLOOR WOOD SURFACES; ILO SOIL TREATMENT.

23. DIRECT VENT FURNACE TERMINAL. SEE APPENDIX-C "EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT VENT VENTING SYSTEM" FOR MINIMUM CLEARANCES TO WINDOW & DOOR OPENINGS, GRADE, EXHAUST & INTAKE VENTS. REFER TO GAS UTILIZATION CODE.

24. DIRECT VENT GAS FIREPLACE. SEE APPENDIX-C "EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT VENT VENTING SYSTEM" FOR MINIMUM CLEARANCES TO WINDOW & DOOR OPENINGS, GRADE, EXHAUST & INTAKE VENTS. REFER TO GAS UTILIZATION CODE.

25. SUBFLOOR & FLOOR TRUSSES  
 3/4" T & G SUBFLOOR ON PRE-ENGINEERED FLOOR TRUSSES BY REGISTERED TRUSS MANUFACTURER. (SEE STRUCT. ENGINEER'S NAILING SCHEDULE) PROVIDE DRAFT STOPPING EVERY 1000 SF. BRACING IN ACCORDANCE W/ TPI/WTCA BCSI. (1/4") PANEL TYPE UNDERLAY UNDER RESILIENT & PARQUET FLOORING.

26. EXPOSED BUILDING FACE  
 WALLS LESS THAN 5'-0" FROM PROPERTY LINE SHALL HAVE A FIRE RATING OF NO LESS THAN 1 HOUR IN ACCORDANCE WITH ASTM E 119 OR UL 263 WITH EXPOSURE FROM BOTH SIDES PROJECTIONS BETWEEN 2'-0" & 5'-0" FROM PROPERTY LINE MUST HAVE A RATING ON THE UNDERSIDE OF NO LESS THAN 1 HOUR IN ACCORDANCE WITH ASTM E 119 OR UL 263 PROJECTIONS LESS THAN 5'-0" FROM PROPERTY LINE CANNOT HAVE A VENTILATED SOFFIT OPENINGS IN A WALL LESS THAN 3'-0" FROM PROPERTY LINE ARE NOT ALLOWED OPENINGS IN A WALL BETWEEN 3'-0" & 5'-0" FROM THE PROPERTY LINE CANNOT EXCEED 25% OF THE MAXIMUM WALL AREA PENETRATIONS LESS THAN 5'-0" FROM THE PROPERTY LINE MUST COMPLY WITH CURRENT NC CODE WHERE BUILDING FACE IS WITHIN 10'-0" OF PROPERTY LINE, ADD 5/8" GYPSUM BOARD UNDERLAYMENT @ SOFFIT

27. STEMWALL FOUNDATION & FOOTING  
 WHERE GROUND FLOOR SLAB EXTENDS TOO FAR ABOVE FIN. GRADE FOR A MONOLITHIC SLAB, CONSTRUCT STEMWALL DETAIL PER STRUCTURAL ENGINEER'S SPECIFICATIONS.

28. TWO STORY VOLUME SPACES  
 BALLOON FRAMING PER STRUCTURAL ENGINEER - REFER TO FLOOR PLANS

29. TYP. 1 HOUR RATED PARTYWALL. REFER TO DETAILS FOR TYPE AND SPECS.

WOOD FRAME & CONCRETE BLOCK CONSTRUCTION NOTES:

1. TERMITE & DECAY PROTECTION  
CHEMICAL SOIL TREATMENT  
 THE CONCENTRATION RATE OF APPLICATION AND TREATMENT METHOD OF THE TERMITICIDE SHALL BE CONSISTENT WITH AND NEVER LESS THAN THE TERMITICIDE LABEL AND SHALL BE APPLIED ACCODING TO THE STANDARDS OF THE NORTH CAROLINA DEPARTMENT OF AGRICULTURE

FIELD CUTS, NOTCHES AND DRILLED HOLES SHALL BE TREATED IN THE FIELD IN ACCORDANCE WITH AWPA M4.

ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY FOUNDATION WALLS SHALL EITHER BE PRESSURE TREATED WOOD IN ACCORDANCE WITH AWPA U1 STANDARDS OR PROTECTED FROM CONTACT BY AN APPROVED IMPERVIOUS MOISTURE BARRIER

2. SEE STRUCTURAL ENGINEER'S DRAWINGS FOR STEEL LINTELS SUPPORTING ANY BRICK VENEER

WINDOWS:

1. MIN. EMERGENCY ESCAPE WINDOW OPENING SIZES  
 MIN. OF ONE EMERGENCY ESCAPE WINDOW REQ. IN EVERY SLEEPING ROOM  
 MIN. AREA FOR GROUND FLOOR EMERGENCY ESCAPE OPENING = 5.0 Sq.Ft.  
 MIN. AREA FOR SECOND FLOOR EMERGENCY ESCAPE OPENING = 5.7 Sq.Ft.  
 MIN. HEIGHT DIMENSION FOR EMERGENCY ESCAPE OPENING = 22"  
 MIN. WIDTH DIMENSION FOR EMERGENCY ESCAPE OPENING = 20"  
 MAX. SILL HEIGHT FOR EMERGENCY ESCAPE OPENING = 44" ABOVE FLOOR

2. MINIMUM WINDOW SILL HEIGHT  
 IN DWELLING UNITS WHERE THE OPENING OF AN OPERABLE WINDOW IS MORE THAN 72" ABOVE FINISHED GRADE, OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING SHALL BE A MINIMUM OF 24" ABOVE THE FINISHED FLOOR. ANY WINDOW 24" OR LESS FROM FINISHED FLOOR SHALL BE EQUIPPED WITH AN OPENING LIMITING DEVICE.

3. FIXED GLASS REQUIREMENTS: FIXED GLASS IS REQ. FOR WINDOWS LESS THAN 24" ABOVE FINISHED FLOOR.
4. FLASHING, SEALANTS AND WEATHERSTRIPPING: INSTALL APPROVED CORROSION-RESISTANT FLASHING AT ALL EXTERIOR DOORS & WINDOWS TO EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH OR WATER RESISTIVE BARRIER. WINDOWS SHALL BE SEALED WITH MINIMUM QUALITY OF CAULKING TO BE ASTM Spec 920 OR 1281 WITH TESTING & PERFORMANCE Class 25 OR AAMA Class 800 OR 812. RECOMMEND SIKA 201.
5. MAXIMUM TOLERANCE FOR MASONRY ROUGH OPENING SIZE: MASONRY ROUGH OPENING DIMENSIONS SHALL PROVIDE FOR A WINDOW PERIMETER SEALANT JOINT A MAXIMUM OF 1/4" IN WIDTH.
6. MINIMUM ENERGY CODE REQUIREMENTS FOR WINDOWS. INSTALLED WINDOWS SHALL HAVE PROPERTIES AS EFFICIENT AS WINDOWS USED TO CALCULATE FORM 1100A. WINDOW PERFORMANCE CRITERIA ARE CONTAINED IN THE ENERGY GAUGE USA/FLA/RES COMPUTER PROGRAM. refer TO SHEET GN1.1 FOR MINIMUM N.C. SOLAR HEAT GAIN COEFFICIENT (SHGC). WINDOWS WITH CERTIFIED PERFORMANCE SHALL HAVE THE NFRC LABEL PROVIDING U-VALUE & SHGC TO REMAIN ON THE WINDOW UNTIL FINAL ENERGY INSPECTION.
7. ANY GLASS OR WINDOW MUST BE TEMPERED THAT IS: LESS THAN 18" ABOVE FINISH FLOOR. WITHIN 60" OF A TUB OR SHOWER. WHERE NEAREST VERTICAL EDGE IS WITHIN 24" OF A DOOR AND BOTTOM WINDOW EDGE IS LESS THAN 60" ABOVE FLOOR. OVER 9 s.f. OF GLASS AREA. LESS THAN 60" FROM STAIR TREAD OR LANDING.

GENERAL

1. THE FOLLOWING, WHERE PRESENT, SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL:
- A. BLOCKING AND SEALING FLOOR / CEILING SYSTEMS AND UNDER KNEE WALLS OPEN TO UNCONDITIONED OR EXTERIOR SPACE  
 B. CAPPING AND SEALING SHAFTS OR CHASES INCLUDING FLUE SHAFTS  
 C. CAPPING AND SEALING SOFFIT OR DROPPED CEILING AREAS  
 D. TOP AND BOTTOM PLATES
2. PENETRATIONS WILL BE SEALED WITH A PRODUCT THAT MEETS ASTM E119. FIBERGLASS INSULATION IS NOT PERMITTED TO SEAL ANY PENETRATIONS.
3. GUARDS SHALL BE LOCATED ALONG OPEN-SIDED WALKING SURFACES, INCLUDING FLOORED ATTIC AREAS.



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CLIENT: **MATTAMY HOMES**

PROJECT: **VOYAGEUR - RH**

LOCATION: **NORTH CAROLINA**

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

PROJECT NO.: **23900833**

DATE: **09/08/2023** DRAWN BY: **CAR**

**GENERAL NOTES**

**GN1.0**

**North Carolina  
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT**

(note a)

| CLIMATE ZONE | FENESTRATION U-FACTOR (notes b, j) | SKYLIGHT U-FACTOR (note b) | GLAZED FENESTRATION SHGC (notes b, k) | CEILING R-VALUE (note m) | WOOD FRAME WALL R-VALUE                  | MASS WALL R-VALUE (note i) | FLOOR R-VALUE | BASEMENT WALL R-VALUE (notes c, o) | SLAB R-VALUE AND DEPTH (note d) | CRAWL SPACE WALL R-VALUE (note c) |
|--------------|------------------------------------|----------------------------|---------------------------------------|--------------------------|--|----------------------------|---------------|------------------------------------|---------------------------------|-----------------------------------|
| <b>3</b>     | 0.35                               | 0.55                       | 0.30                                  | 38 or 30ci               | 15 or 13 + 2.5 (note h)                  | 5/13 or 5/10ci             | 19            | 5/13 (note f)                      | 0                               | 5/13                              |
| <b>4</b>     | 0.35                               | 0.55                       | 0.30                                  | 38 or 30ci               | 15 or 13 + 2.5 (note h)                  | 5/13 or 5/10ci             | 19            | 10/15                              | 10                              | 10/15                             |
| <b>5</b>     | 0.35                               | 0.55                       | NR                                    | 38 or 30ci               | 19 (note n) or 13 + 5 or 15 + 3 (note h) | 13/17 or 13/12.5ci         | 30 (note g)   | 10/15                              | 10                              | 10/19                             |

- |  |   |
|--|---|
| <p>a. R-VALUES ARE MINIMUMS. U-FACTORS AND SHGC ARE MAXIMUMS.</p> <p>b. THE FENESTRATION U-FACTOR COLUMN EXCLUDES SKYLIGHTS. THE SHGC COLUMN APPLIES TO ALL GLAZED FENESTRATION.</p> <p>c. "10/15" MEANS R-10 CONTINUOUS INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-15 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR CRAWL SPACE WALL.</p> <p>d. R-5 SHALL BE ADDED TO THE REQUIRED SLAB EDGE R-VALUES FOR HEATED SLABS. FOR MONOLITHIC SLABS, INSULATION SHALL BE APPLIED FROM THE INSPECTION GAP DOWNWARD TO THE BOTTOM OF THE FOOTING OR A MAXIMUM OF 24 INCHES BELOW GRADE, WHICHEVER IS LESS. FOR FLOATING SLABS, INSULATION SHALL EXTEND TO THE BOTTOM OF THE FOUNDATION WALL OR 24", WHICHEVER IS LESS.</p> <p>e. NOT USED.</p> <p>f. BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED BY FIGURE N1101.7 AND TABLE N1101.7.</p> <p>g. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY, R-19 MINIMUM.</p> <p>h. THE FIRST VALUE IS CAVITY INSULATION, THE SECOND VALUE IS CONTINUOUS INSULATION, SO "13 + 5" MEANS R-13 CAVITY INSULATION PLUS R-5 CONTINUOUS INSULATION. IF STRUCTURAL SHEATHING COVERS 25 PERCENT OR LESS OF THE EXTERIOR, INSULATING SHEATHING IS NOT REQUIRED WHERE STRUCTURAL SHEATHING IS USED. IF STRUCTURAL SHEATHING COVERS MORE THAN 25 PERCENT OF EXTERIOR, STRUCTURAL SHEATHING SHALL BE SUPPLEMENTED WITH INSULATED SHEATHING OF AT LEAST R-2.</p> | <p>i. THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR OF THE MASS WALL.</p> <p>j. IN ADDITION TO THE EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A U-FACTOR NO GREATER THAN 0.55 SHALL BE PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES WITHOUT PENALTY.</p> <p>k. IN ADDITION TO THE EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A SHGC NO GREATER THAN 0.70 SHALL BE PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES WITHOUT PENALTY.</p> <p>l. R-30 SHALL BE DEEMED TO SATISFY THE CEILING INSULATION REQUIREMENT WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R-30 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES. OTHERWISE R-38 INSULATION IS REQUIRED WHERE ADEQUATE CLEARANCE EXISTS OR INSULATION MUST EXTEND TO EITHER THE INSULATION BAFFLE OR WITHIN 1" OF THE ATTIC ROOF DECK.</p> <p>m. TABLE VALUE REQUIRED EXCEPT FOR ROOF EDGE WHERE THE SPACE IS LIMITED BY THE PITCH OF THE ROOF, THERE THE INSULATION MUST FILL THE SPACE UP TO THE AIR BAFFLE.</p> <p>n. R-19 FIBERGLASS BATTS COMPRESSED AND INSTALLED IN A NOMINAL 2x6 FRAMING CAVITY IS DEEMED TO COMPLY. FIBERGLASS BATTS RATED R-19 OR HIGHER COMPRESSED AND INSTALLED IN A 2x4 WALL IS NOT DEEMED TO COMPLY.</p> <p>o. BASEMENT WALL MEETING THE MINIMUM MASS WALL SPECIFIC HEAT CONTENT REQUIREMENT MAY USE THE MASS WALL R-VALUE AS THE MINIMUM REQUIREMENT.</p> |
|--|---|



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CLIENT: **MATTAMY HOMES**

PROJECT: **VOYAGEUR - RH**

LOCATION: **NORTH CAROLINA**

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

PROJECT NO.: **23900833**

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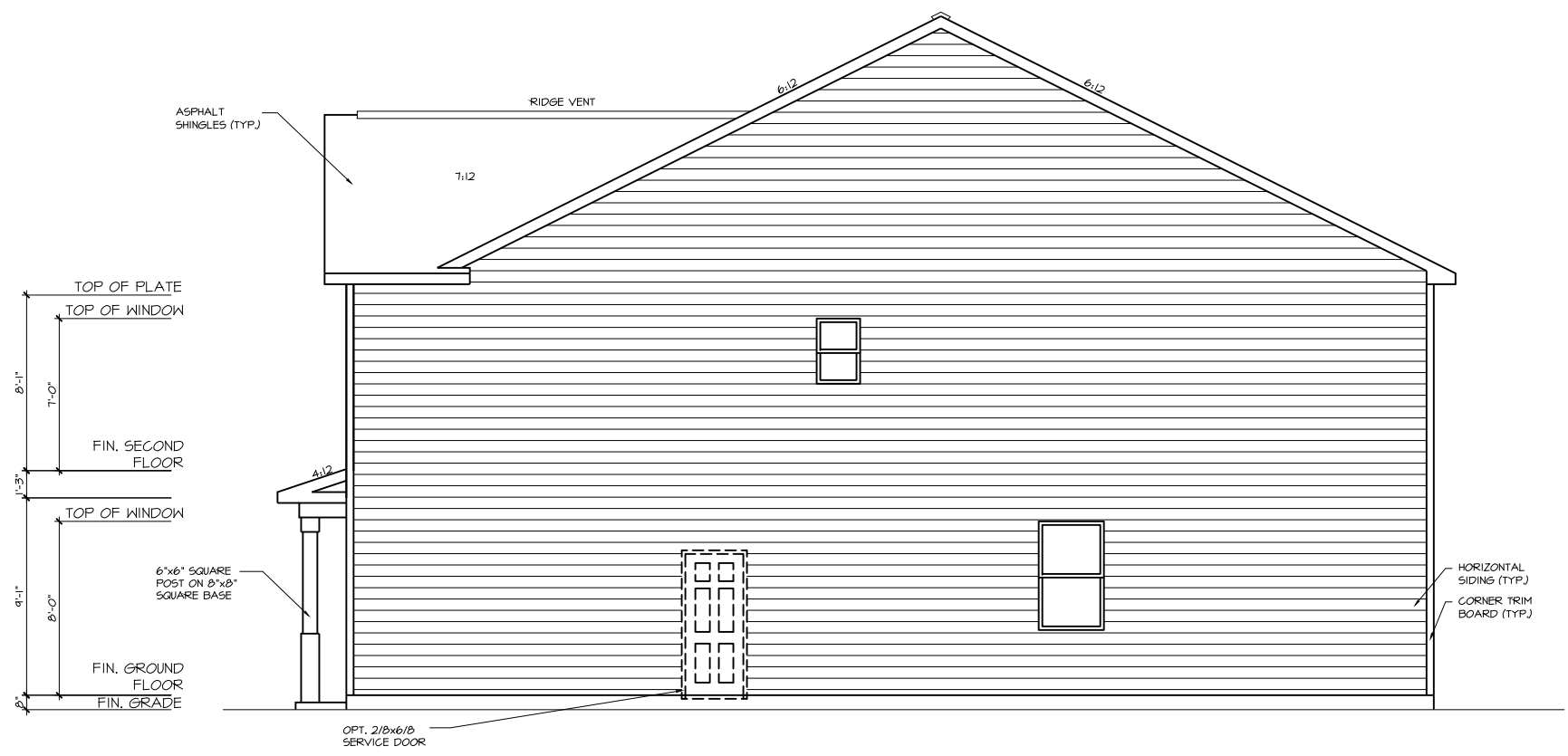
GENERAL NOTES

**GN1.1**

USE CORROSION-RESISTANT FLASHING AT ALL ROOF-TO-WALL INTERSECTIONS



FRONT ELEVATION - FARMHOUSE



RIGHT SIDE ELEVATION - FARMHOUSE



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|  |                       |
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| PROJECT:   | <b>VOYAGEUR - RH</b>  |
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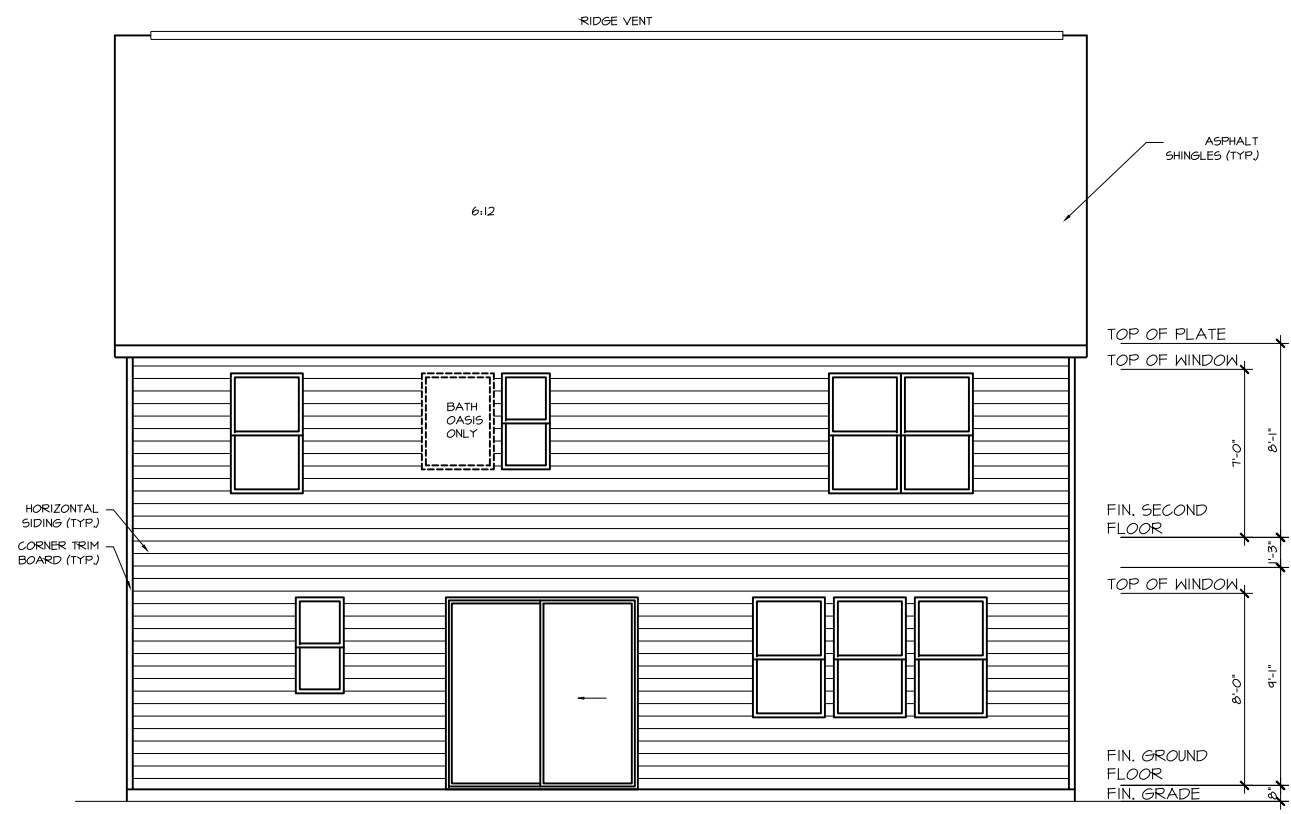
**EXTERIOR ELEVATIONS**

**0.10**

USE CORROSION-RESISTANT FLASHING AT ALL ROOF-TO-WALL INTERSECTIONS



LEFT SIDE ELEVATION - FARMHOUSE



REAR ELEVATION - FARMHOUSE

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PROJECT: **VOYAGEUR - RH**

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EXTERIOR ELEVATIONS

**0.11**

USE CORROSION-RESISTANT FLASHING AT ALL ROOF-TO-WALL INTERSECTIONS



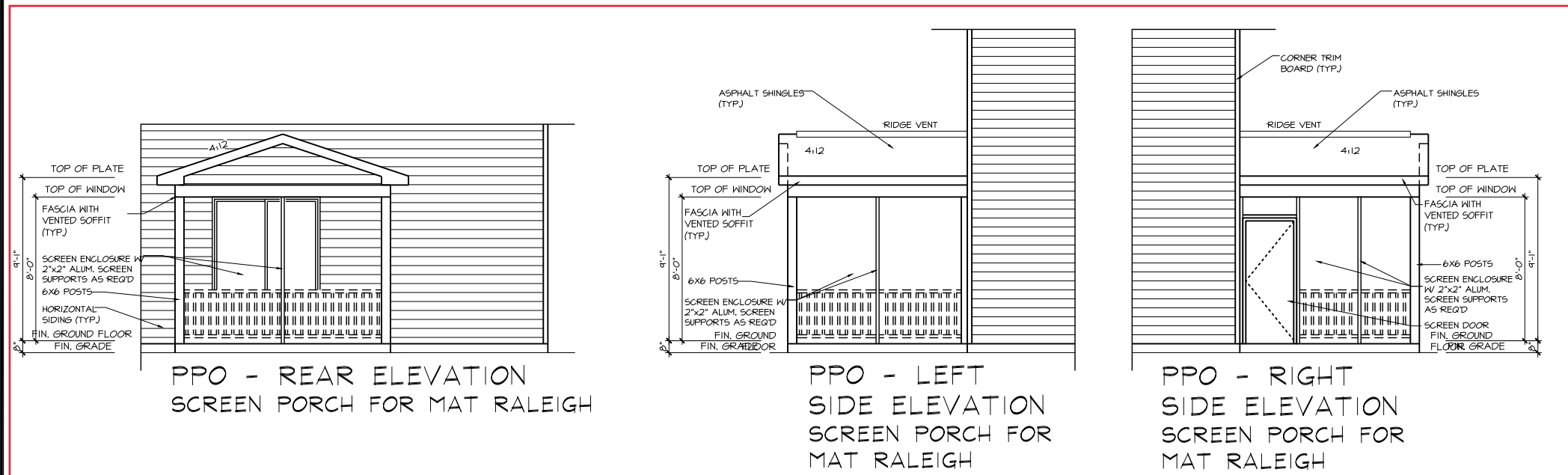
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 PROJECT: **VOYAGEUR - RH**  
 LOCATION: **NORTH CAROLINA**

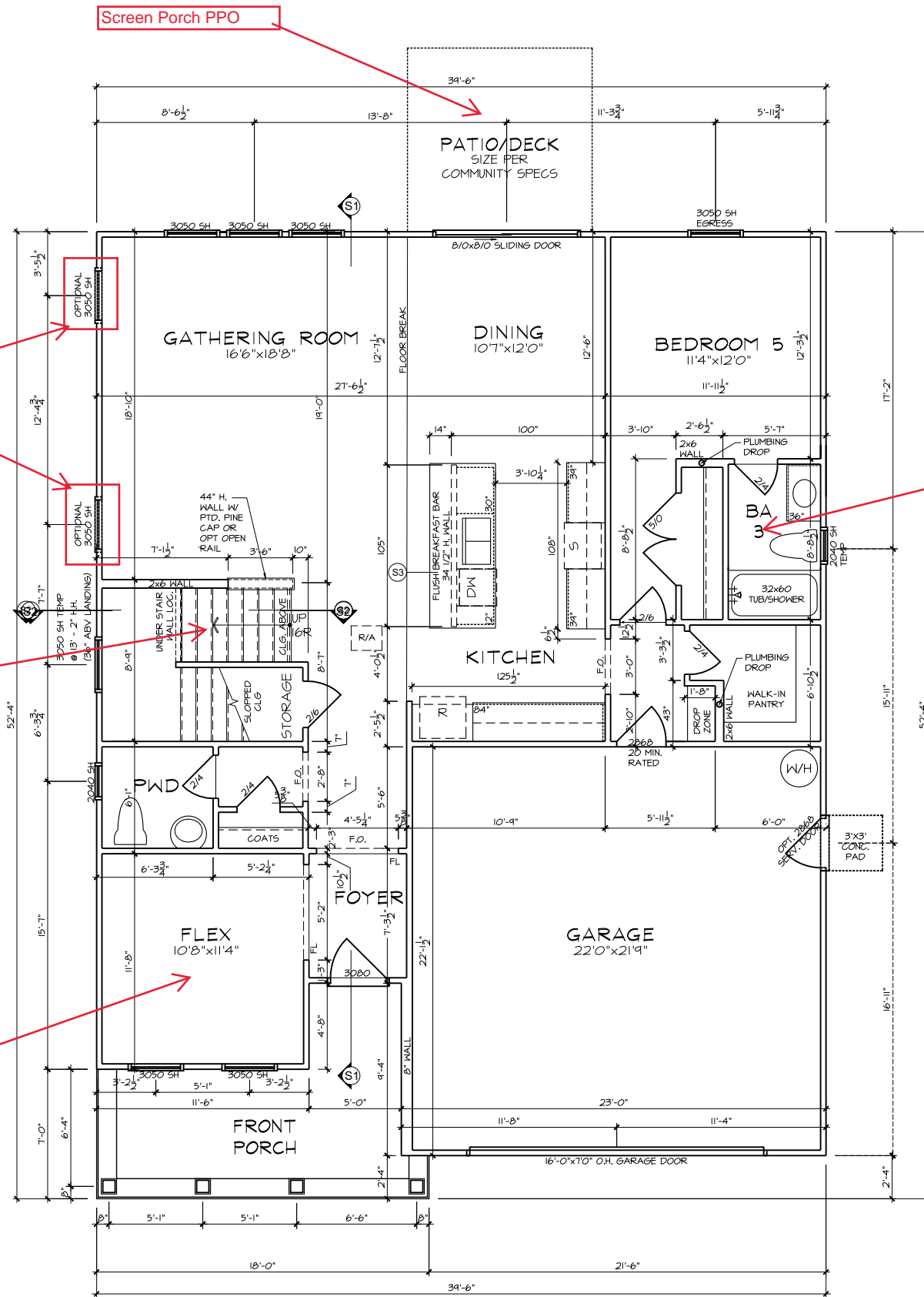
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**EXTERIOR ELEVATIONS**

**0.12**



- FLOOR PLAN NOTES**
1. ALL FRAMED OPENINGS (F.O.) @ 96" ON 9'H PLATES AND 84" ON 8'H PLATES.
  2. 4 SHELVES MAX. @ ALL LINEN & PANTRIES.
  3. REFER TO GARAGE FRAMING DETAIL ON SHT. MISC3 FOR GOAL POST FRAMING.
  4. ALL STUD POCKETS TO BE 4 1/2" (3) STUDS U.N.O.
  5. ALL STUDS BEHIND SHOWER STALLS @ 16" O.C.
  6. INTERIOR DOOR HEIGHTS PER COMMUNITY SPECIFICATIONS U.N.O.



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Screen Porch PPO

Add Optional 3050 Windows

Open Rail Wood Pickets

Study ILO Flex PPO

Shower ILO Tub/SH

GROUND FLOOR PLAN - FARMHOUSE

CLIENT: **MATTAMY HOMES**

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FIRST FLOOR PLAN

**1.0**



- FLOOR PLAN NOTES**
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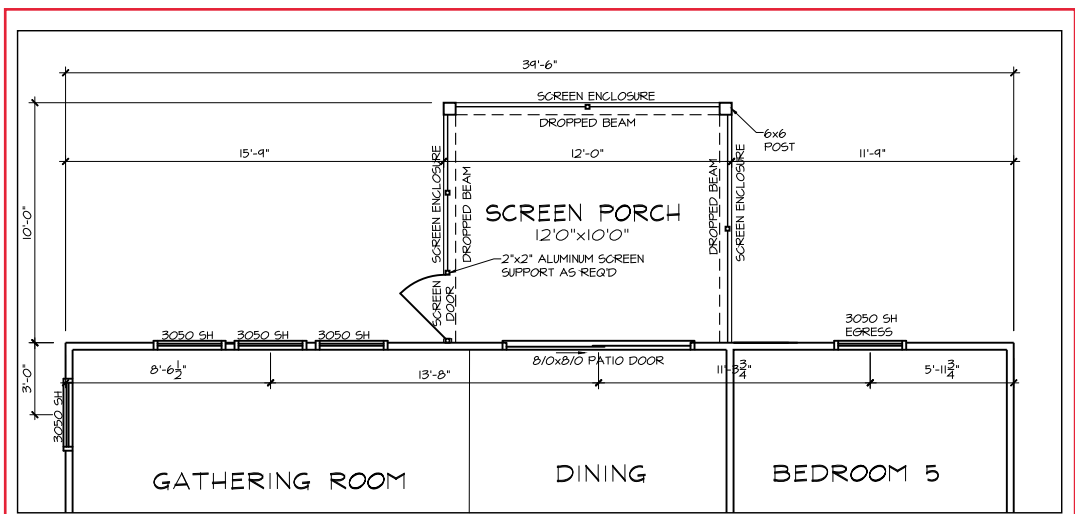
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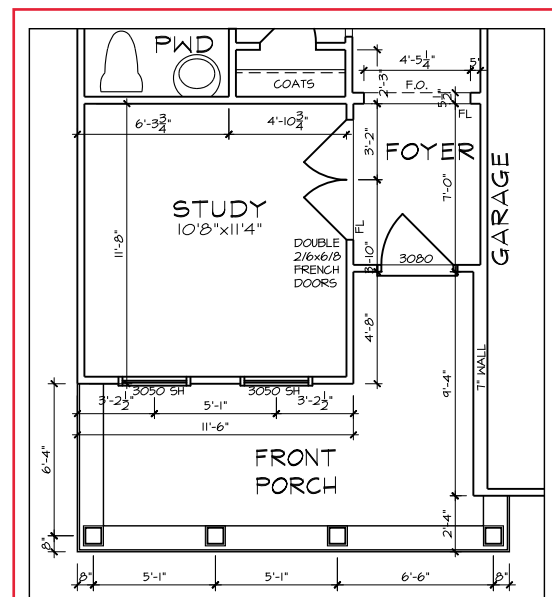


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PPO - GROUND FLOOR PLAN  
SCREEN PORCH  
MATTAMY RALEIGH



PPO - GROUND FLOOR  
PLAN - FARMHOUSE  
STUDY

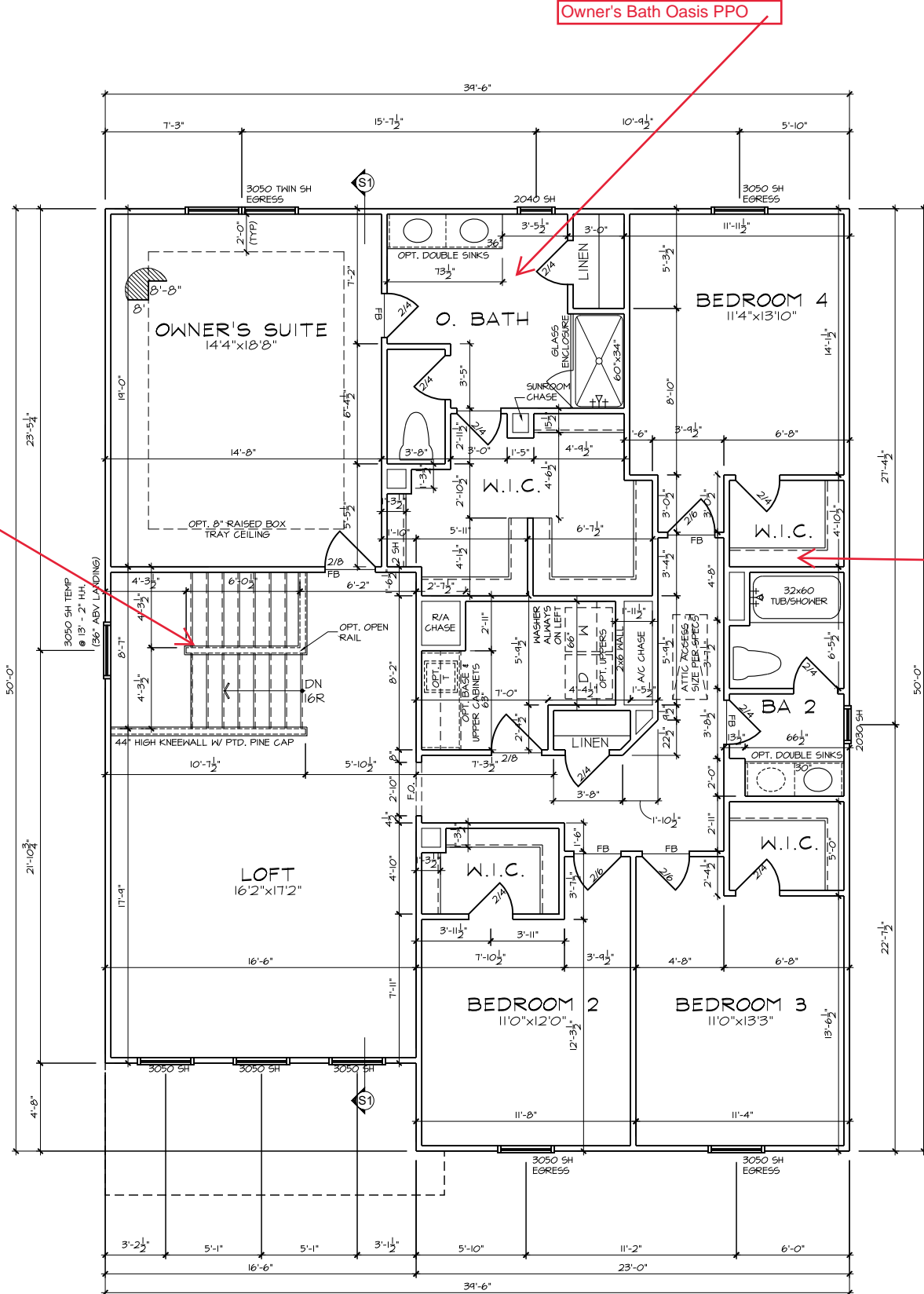
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**FIRST FLOOR OPTIONS  
FLOOR PLANS**

**1.1**



- FLOOR PLAN NOTES**
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Open Rail Wood Pickets

Owner's Bath Oasis PPO

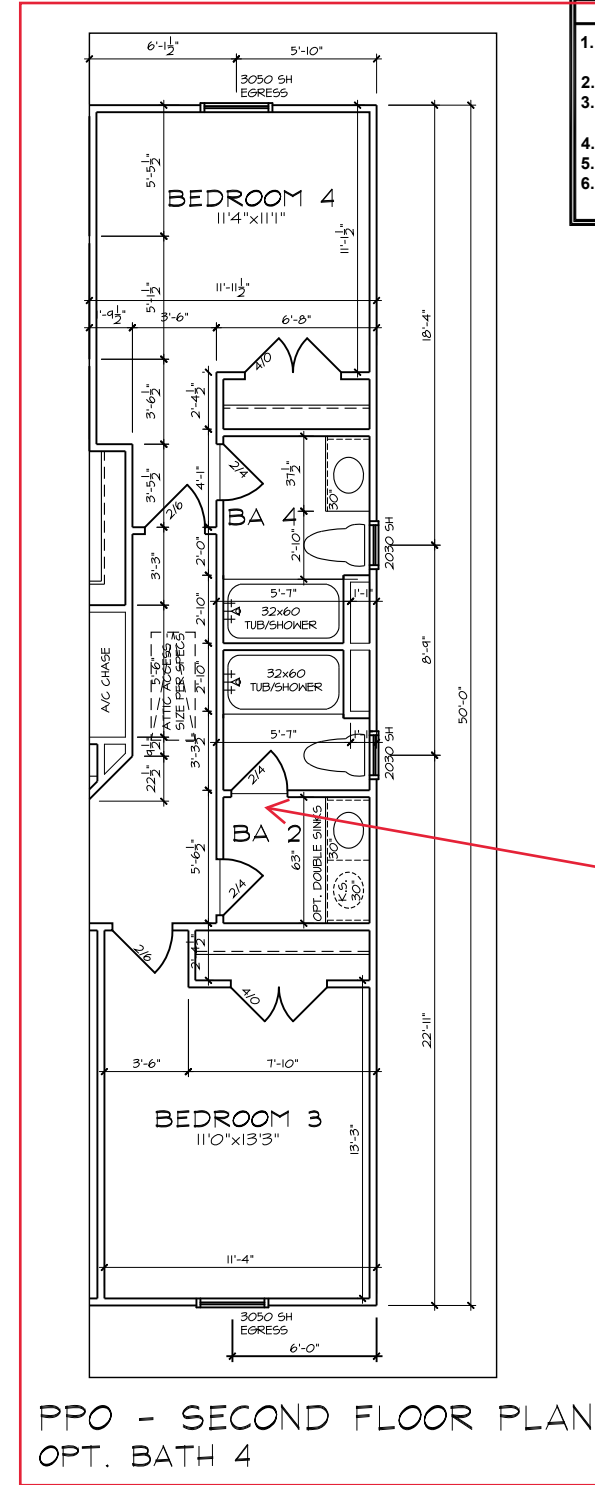
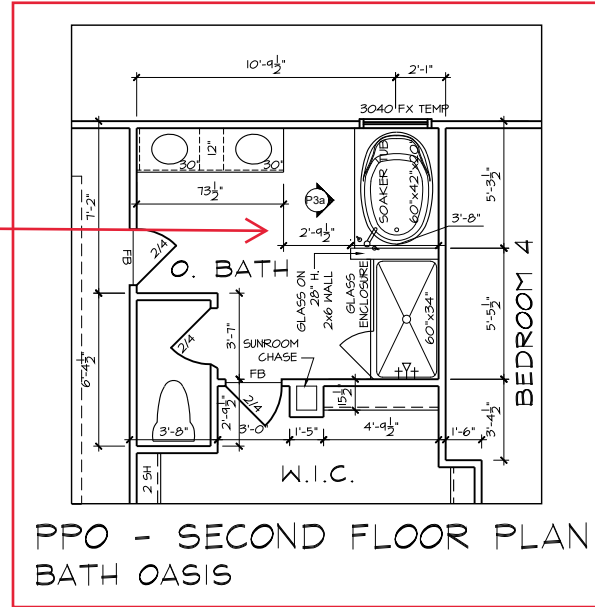
Bath 4 PPO

SECOND FLOOR PLAN - FARMHOUSE

|                   |                       |
|-------------------|-----------------------|
| CLIENT:           | <b>MATTAMY HOMES</b>  |
| PROJECT:          | <b>VOYAGEUR - RH</b>  |
| LOCATION:         | <b>NORTH CAROLINA</b> |
| PROJECT NO.:      | <b>23900833</b>       |
| DATE:             | <b>09/08/2023</b>     |
| DRAWN BY:         | <b>CAR</b>            |
| SECOND FLOOR PLAN |                       |
| <b>2.0</b>        |                       |

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

Owner's Shower w/ Tile Surround, 60" FGSH Pan w/ Strainer, Owner's Tub Sideln, Bath Tile Surround



- FLOOR PLAN NOTES**
1. ALL FRAMED OPENINGS (F.O.) @ 96" ON 9'H PLATES AND 84" ON 8'H PLATES.
  2. 4 SHELVES MAX. @ ALL LINEN & PANTRIES.
  3. REFER TO GARAGE FRAMING DETAIL ON SHT. MISC3 FOR GOAL POST FRAMING.
  4. ALL STUD POCKETS TO BE 4 1/2" (3) STUDS U.N.O.
  5. ALL STUDS BEHIND SHOWER STALLS @ 16" O.C.
  6. INTERIOR DOOR HEIGHTS PER COMMUNITY SPECIFICATIONS U.N.O.

Bath 2 Double Sinks



MATTAMY HOMES  
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PH: 704-375-9373

MATTAMY HOMES  
RALEIGH DIVISION  
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CLIENT:  
**MATTAMY HOMES**

PROJECT:  
**VOYAGEUR - RH**

LOCATION:  
**NORTH CAROLINA**

SCALE: 1/8" = 1'-0" FOR 11X17 PAPER, 1/4" = 1'-0" FOR 22X34 PAPER, OR AS NOTED

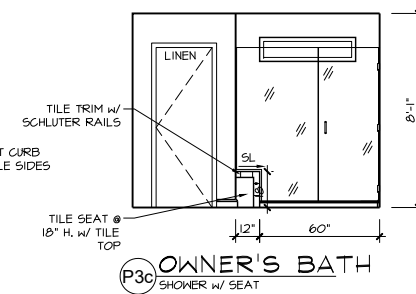
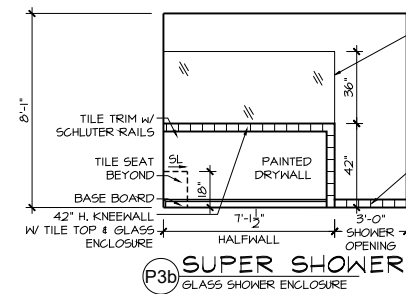
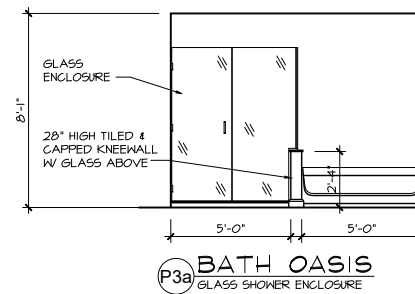
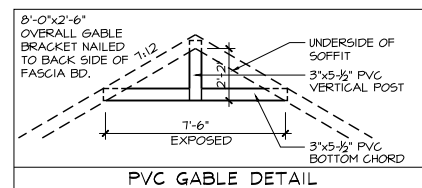
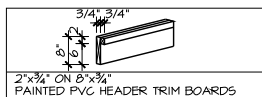
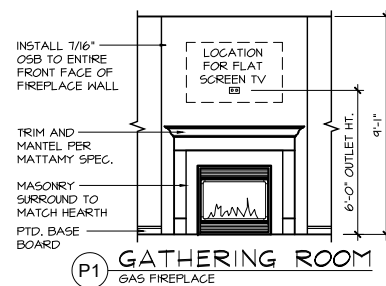
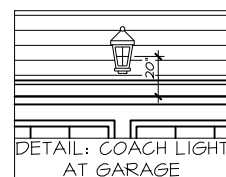
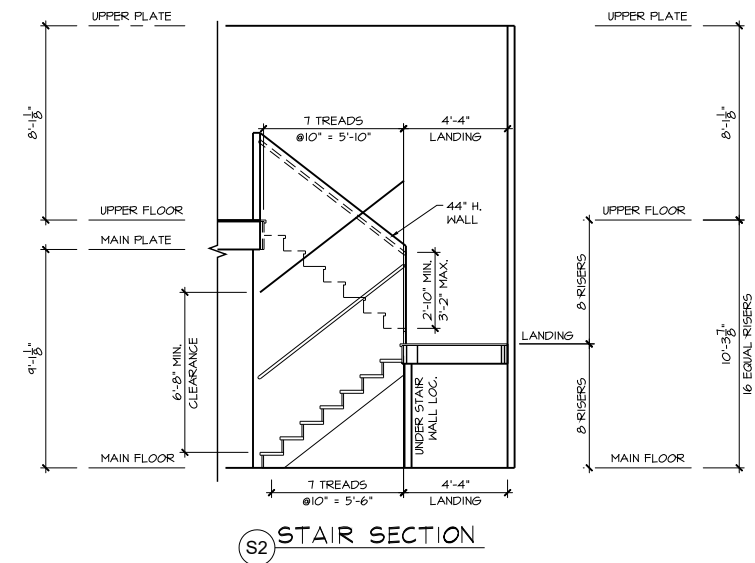
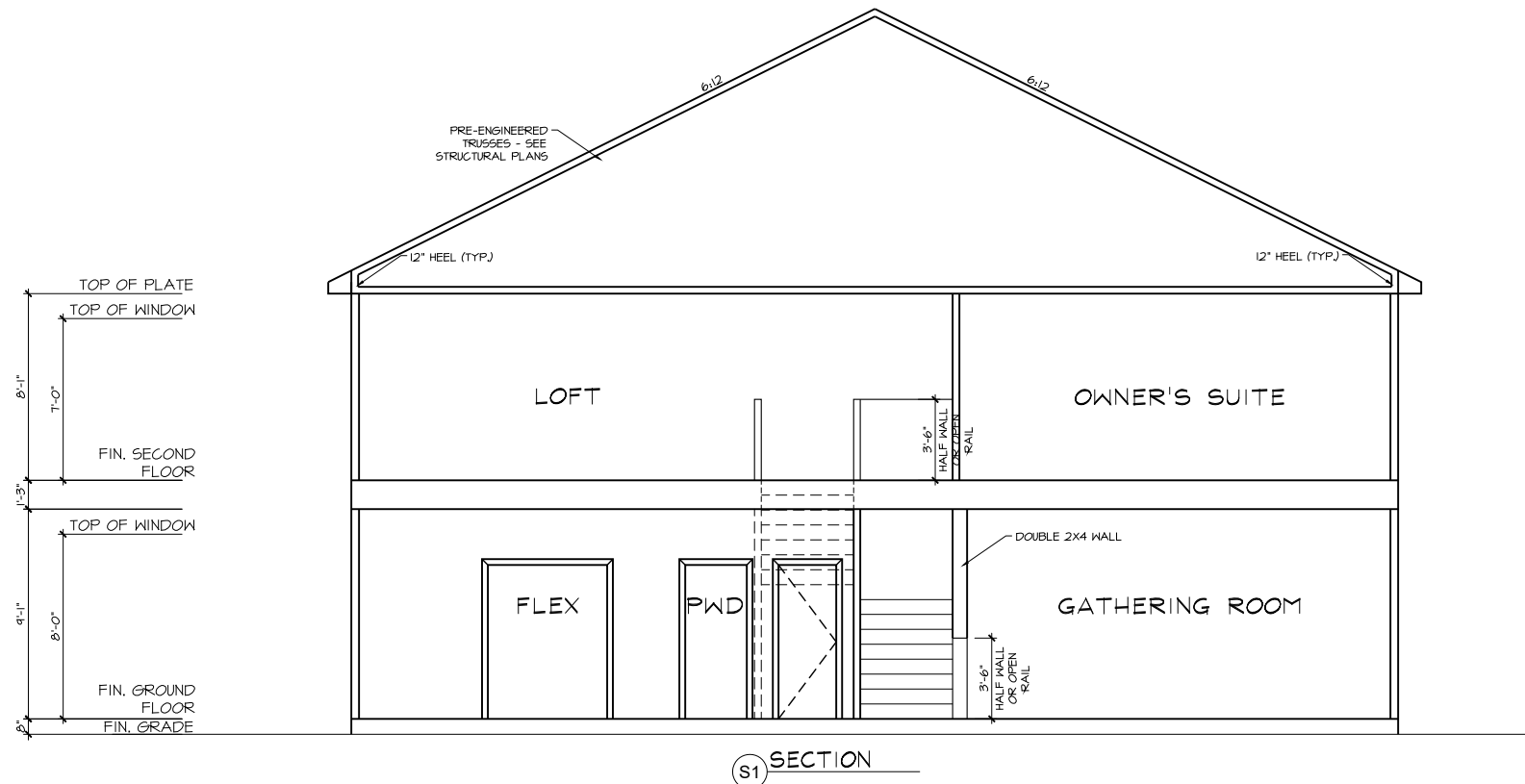
PROJECT NO.:  
**23900833**

DATE:  
**09/08/2023**

DRAWN BY:  
**CAR**

**SECOND FLOOR OPTIONS  
FLOOR PLANS**

**2.1**



CLIENT: **MATTAMY HOMES**

PROJECT: **VOYAGEUR - RH**

LOCATION: **NORTH CAROLINA**

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

PROJECT NO.: **23900833**

DATE: **09/08/2023**

DRAWN BY: **CAR**

**SECTIONS & DETAILS**

**4.0**

# STRUCTURAL PLANS FOR:



# MATTAMY HOMES - VOYAGEUR RH



P-0961

**JDS Consulting**  
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## PLAN RELEASE / REVISIONS

| REV. DATE  | ARCH PLAN VERSION | REVISION DESCRIPTION   | DRFT |
|------------|-------------------|--|------|
| 07/11/2022 | VOYAGEUR          | UPDATED STR BACKGROUNDS WITH ARC REVISIONS; ADDED PULL DOWN STAIRS & HVAC PLATFORM TO ROOF PLANS; REMOVED BUMPOUTS FROM ENHANCED SIDE ELEVATIONS | VLT  |
| 10/14/2022 | VOYAGEUR          | ADDED 4' GARAGE EXTENSION  | VLT  |
| 01/17/2023 | VOYAGEUR          | REVISED LOCATION OF SECOND FLOOR WINDOW IN LOFT ON CRAFTSMAN PER ELEVATION   | VLT  |
| 03/23/2023 | VOYAGEUR          | ADDED THIRD CAR GARAGE STRUCTURAL. RENAMED SUNROOM TO MORNING ROOM. RENAMED COVERED PORCH TO COVERED VERANDA                                     | VLT  |
| 05/23/2023 | VOYAGEUR          | UPDATED 4 PLY BEAM TO A 3 PLY BEAM AT STAIRS/KITCHEN CEILING ON SHEET S1.0 OPENED 1 ADDITIONAL RISER WITH HALF WALL                              | WTS  |
| 05/24/2023 | VOYAGEUR          | ADDED SIDE LOAD GARAGE STRUCTURAL.   | VLT  |
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### NOTES

- ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT, INCLUDING ROOF GEOMETRY. JDS Consulting, PLLC ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. ENGINEER TO BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
- DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.
- PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:
  - IF THESE PLANS ARE ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR 18 MONTHS FROM THE DATE ON THE SEAL, UNLESS ANY CODE-REQUIRED UPDATES ARE PLACED IN EFFECT BY THE MUNICIPALITY.
  - IF THESE PLANS ARE NOT ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR A CONDITIONAL, ONE-TIME USE FOR THE LOT OR ADDRESS SPECIFIED ON THE TITLE BLOCK.

### CODE

ALL CONSTRUCTION, WORKMANSHIP, AND MATERIAL QUALITY AND SELECTION SHALL BE PER:

**2018  
NORTH CAROLINA  
STATE BUILDING CODE:  
RESIDENTIAL CODE**

### ENGINEER OF RECORD

JDS Consulting, PLLC  
ENGINEERING - DESIGN - ENERGY  
8600 'D' JERSEY COURT  
RALEIGH, NC 27617  
FIRM LIC. NO: P-0961  
PROJECT REFERENCE: 23900833

CLIENT: MATTAMY HOMES  
PROJECT: VOYAGEUR - RH  
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PROJECT NO.: 23900833

DATE: 05/24/2023      DRAWN BY: CAR

TITLE SHEET  
**SN1.0**

NOTE: ALL CHAPTERS, SECTIONS, TABLES, AND FIGURES CITED WITHOUT A PUBLICATION TITLE ARE FROM THE APPLICABLE RESIDENTIAL CODE (SEE TITLE SHEET).

**GENERAL**

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. FURTHERMORE, CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND SAFETY ON SITE. NOTIFY JDS Consulting, PLLC IMMEDIATELY IF DISCREPANCIES ON PLAN EXIST.

2. BRACED-WALL DESIGN IS BASED ON **SECTION R602.10 - WALL BRACING**. PRIMARY PRESCRIPTIVE METHOD TO BE CS-WSP. SEE WALL BRACING PLANS AND DETAILS FOR ADDITIONAL INFORMATION.

ALL NON-PRESCRIPTIVE SOLUTIONS ARE BASED ON GUIDELINES ESTABLISHED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS PUBLICATION *ASCE 7* AND THE NATIONAL *DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC*.

3. SEISMIC DESIGN SHALL BE PER **SECTION R301.2.2 - SEISMIC PROVISIONS**, INCLUDING ASSOCIATED TABLES AND FIGURES, BASED ON LOCAL SEISMIC DESIGN CATEGORY.

**DESIGN LOADS**

|                                      |                            |
|--------------------------------------|----------------------------|
| ASSUMED SOIL BEARING-CAPACITY        | 2,000 PSF                  |
| <b>LIVE LOAD</b>                     |                            |
| ULTIMATE DESIGN WIND SPEED           | 120 MPH, EXPOSURE B        |
| GROUND SNOW                          | 15 PSF                     |
| ROOF                                 | 20 PSF                     |
| <b>RESIDENTIAL CODE TABLE R301.5</b> | <b>LIVE LOAD (PSF)</b>     |
| DWELLING UNITS                       | 40                         |
| SLEEPING ROOMS                       | 30                         |
| ATTICS WITH STORAGE                  | 20                         |
| ATTICS WITHOUT STORAGE               | 10                         |
| STAIRS                               | 40                         |
| DECKS                                | 40                         |
| EXTERIOR BALCONIES                   | 60                         |
| PASSENGER VEHICLE GARAGES            | 50                         |
| FIRE ESCAPES                         | 40                         |
| GUARDS AND HANDRAILS                 | 200 (pounds, concentrated) |

COMPONENT AND CLADDING LOADS, INCLUDING THOSE FOR DOORS AND WINDOWS, SHALL BE DERIVED FROM **TABLES R301.2(2)** AND **R301.2(3)** FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 35 FEET, LOCATED IN EXPOSURE B.

**ABBREVIATIONS**

|      |                       |        |                         |
|------|-----------------------|--------|-------------------------|
| ABV  | ABOVE                 | KS     | KING STUD COLUMN        |
| AFF  | ABOVE FINISHED FLOOR  | LVL    | LAMINATED VENEER LUMBER |
| ALT  | ALTERNATE             | MAX    | MAXIMUM                 |
| BRG  | BEARING               | MECH   | MECHANICAL              |
| BSMT | BASEMENT              | MFR    | MANUFACTURER            |
| CANT | CANTILEVER            | MIN    | MINIMUM                 |
| CJ   | CEILING JOIST         | NTS    | NOT TO SCALE            |
| CLG  | CEILING               | OA     | OVERALL                 |
| CMU  | CONCRETE MASONRY UNIT | OC     | ON CENTER               |
| CO   | CASED OPENING         | PT     | PRESSURE TREATED        |
| COL  | COLUMN                | R      | RISER                   |
| CONC | CONCRETE              | REF    | REFRIGERATOR            |
| CONT | CONTINUOUS            | RFG    | ROOFING                 |
| D    | CLOTHES DRYER         | RO     | ROUGH OPENING           |
| DBL  | DOUBLE                | RS     | ROOF SUPPORT            |
| DIAM | DIAMETER              | SC     | STUD COLUMN             |
| DJ   | DOUBLE JOIST          | SF     | SQUARE FOOT (FEET)      |
| DN   | DOWN                  | SH     | SHELF / SHELVES         |
| DP   | DEEP                  | SHTG   | SHEATHING               |
| DR   | DOUBLE RAFTER         | SHW    | SHOWER                  |
| DSP  | DOUBLE STUD POCKET    | SIM    | SIMILAR                 |
| EA   | EACH                  | SJ     | SINGLE JOIST            |
| EE   | EACH END              | SP     | STUD POCKET             |
| EQ   | EQUAL                 | SPEC'D | SPECIFIED               |
| EX   | EXTERIOR              | SQ     | SQUARE                  |
| FAU  | FORCED-AIR UNIT       | T      | TREAD                   |
| FDN  | FOUNDATION            | TEMP   | TEMPERED GLASS          |
| FF   | FINISHED FLOOR        | THK    | THICK(NESS)             |
| FLR  | FLOOR(ING)            | TJ     | TRIPLE JOIST            |
| FP   | FIREPLACE             | TOC    | TOP OF CURB / CONCRETE  |
| FTG  | FOOTING               | TR     | TRIPLE RAFTER           |
| HB   | HOSE BIBB             | TYP    | TYPICAL                 |
| HDR  | HEADER                | UNO    | UNLESS NOTED OTHERWISE  |
| HGR  | HANGER                | W      | CLOTHES WASHER          |
| JS   | JACK STUD COLUMN      | WH     | WATER HEATER            |
|      |                       | WWF    | WELDED WIRE FABRIC      |
|      |                       | XJ     | EXTRA JOIST             |

**MATERIALS**

1. INTERIOR / TRIMMED FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES (#2 SOUTHERN YELLOW PINE MAY BE SUBSTITUTED):

Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI

2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING DESIGN PROPERTIES:

Fb = 975 PSI Fv = 95 PSI E = 1.6E6 PSI

3. LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2600 PSI Fv = 285 PSI E = 1.9E6 PSI

4. PSL STRUCTURAL MEMBERS TO BE PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2900 PSI Fv = 290 PSI E = 2.0E6 PSI

5. LSL STRUCTURAL MEMBERS TO BE LAMINATED STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2250 PSI Fv = 400 PSI E = 1.55E6 PSI

6. STRUCTURAL STEEL WIDE-FLANGE BEAMS SHALL CONFORM TO ASTM A992. Fy = 50 KSI

7. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, GRADE 60.

8. POURED CONCRETE COMPRESSIVE STRENGTH TO BE A MINIMUM 3,000 PSI AT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN AMERICAN CONCRETE INSTITUTE STANDARD ACI 318 OR ASTM C1157.

9. CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABILITY PER **TABLE R301.2(1)** SHALL BE AIR-ENTRAINED WHEN REQUIRED BY **TABLE R402.2**.

10. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE PUBLICATION 530: *BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES* AND THE MASONRY SOCIETY PUBLICATION TMS 402/602: *BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES*.

11. MORTAR SHALL COMPLY WITH ASTM INTERNATIONAL STANDARD C270.

12. INDICATED MODEL NUMBERS FOR ALL METAL HANGERS, STRAPS, FRAMING CONNECTORS, AND HOLD-DOWNS ARE SIMPSON STRONG-TIE BRAND. EQUIVALENT USP BRAND PRODUCTS ARE ACCEPTABLE.

13. REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.

**FOUNDATION**

1. MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS EXIST.

2. CONCRETE FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER **SECTION R404** OR AMERICAN CONCRETE INSTITUTE STANDARD ACI 318.

3. MASONRY FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER **SECTION R404** AND/OR AMERICAN CONCRETE INSTITUTE PUBLICATION 530: *BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES* AND/OR THE MASONRY SOCIETY PUBLICATION TMS 402/602: *BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES*.

4. CONCRETE WALL HORIZONTAL REINFORCEMENT TO BE PER **TABLE R404.1.2(1)** OR AS NOTED OR DETAILED. CONCRETE WALL VERTICAL REINFORCEMENT TO BE PER **TABLES R404.1.2(3 AND 4)** OR AS NOTED OR DETAILED. ALL CONCRETE WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF **CHAPTER 6**.

- A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
- B. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER **SECTION R405**.

5. PLAIN-MASONRY WALL DESIGN TO BE PER **TABLE R404.1.1(1)** OR AS NOTED OR DETAILED. MASONRY WALLS WITH VERTICAL REINFORCEMENT TO BE PER **TABLES R404.1.1 (2 THROUGH 4)** OR AS NOTED OR DETAILED. ALL MASONRY WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF **CHAPTER 6**.

- A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
- B. WALL REINFORCING SHALL BE PLACED ACCORDING TO FOOTNOTE (c) OF THE TABLES (REINFORCING IS NOT CENTERED IN WALL).
- C. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER **SECTION R405**.

6. WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" OC AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. INSTALL MINIMUM (2) ANCHOR BOLTS PER SECTION. SEE **SECTION R403.1.6** FOR SPECIFIC CONDITIONS.

7. THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS **SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION**. UNFILLED, HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN **FOUR TIMES THEIR LEAST DIMENSION**.

8. CENTERS OF PIERS TO BEAR IN THE MIDDLE THIRD OF THE FOOTINGS, AND GIRDERS SHALL CENTER IN THE MIDDLE THIRD OF THE PIERS.

9. ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).

10. ALL REBAR NOTED IN CONCRETE TO HAVE AT LEAST 2" COVER FROM EDGE OF CONCRETE TO EDGE OF REBAR.

11. FRAMING TO BE FLUSH WITH FOUNDATION WALLS.

12. WITH CLASS 1 SOILS, VAPOR BARRIER AND CRUSHED STONE MAY BE OMITTED.

**FRAMING**

1. ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK STUD AND (1) KING STUD EACH END, UNO.

2. ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO.

3. NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.

4. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.

5. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.

6. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.

7. PORCH / PATIO COLUMNS TO BE 4x4 MINIMUM PRESSURE-TREATED LUMBER.

- A. ATTACH PORCH COLUMNS TO SLAB / FDN WALL USING ABA, ABU, ABW, OR CPT SIMPSON POST BASES TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
- B. ATTACH PORCH COLUMNS TO PORCH BEAMS USING AC OR BC SIMPSON POST CAPS TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
- C. TRIM OUT COLUMN(S) AND BEAM(S) PER BUILDER AND DETAILS.

8. ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.

9. ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS:

- A. SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND COORDINATION BEFORE CONSTRUCTION.
- B. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.
- C. INSTALLATION OF THE SYSTEMS SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
- D. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE DRAWINGS.

10. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED Laterally AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED, WITH A MINIMUM OF THREE STUDS, UNO.

11. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS, UNO.

12. STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS TO BE SPACED AT 24" OC (MAX) AND STAGGERED TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH TWO BOLTS TO BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.

13. WHEN A 4-PLY LVL BEAM IS USED, ATTACH WITH (1) 1/2" DIAMETER BOLT, 12" OC, STAGGERED TOP AND BOTTOM, 1 1/2" MIN FROM ENDS. ALTERNATE EQUIVALENT ATTACHMENT METHOD MAY BE USED, SUCH AS SDS, SDW, OR TRUSSLOK SCREWS (SEE MANUFACTURER SPECIFICATIONS).

14. FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE CS16 STRAPS ACROSS STUDS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

15. FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL-DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE NAILED TO THE FLOOR SHEATHING, THE SILL PLATE, THE JOIST, AND THE EXTERIOR RIM JOIST / BOARD.

16. BRACED WALL PANELS SHALL BE FASTENED TO MEET THE UPLIFT-RESISTANCE REQUIREMENTS IN CHAPTERS 6 AND 8 OF THE APPLICABLE CODE (SEE TITLE SHEET). REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM SHALL BE MET.



P-0961

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CLIENT: **MATTAMY HOMES**

PROJECT: **VOYAGEUR - RH**

LOCATION: **NORTH CAROLINA**

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 2x24 PAPER, OR AS NOTED



PROJECT NO.: **23900833**

DATE: **05/24/2023** DRAWN BY: **CAR**

GENERAL NOTES

**SN1.1**

| FASTENER SCHEDULE  |  |  |
|--|--|--|
| CONNECTION   | 3" x 0.131" NAIL   | 3" x 0.120" NAIL   |
| JOIST TO SILL PLATE  | (4) TOE NAILS  | (4) TOE NAILS  |
| SOLE PLATE TO JOIST / BLOCKING   | NAILS @ 8" OC (typical)<br>(4) PER 16" SPACE<br>(at braced panels) | NAILS @ 8" OC (typical)<br>(4) PER 16" SPACE<br>(at braced panels) |
| STUD TO SOLE PLATE   | (4) TOE NAILS  | (4) TOE NAILS  |
| TOP OR SOLE PLATE TO STUD  | (3) FACE NAILS   | (4) FACE NAILS   |
| RIM JOIST OR BAND JOIST TO TOP PLATE OR SILL PLATE                         | TOE NAILS @ 6" OC  | TOE NAILS @ 4" OC  |
| BLOCKING BETWEEN JOISTS TO TOP PLATE OR SILL PLATE                         | (4) TOE NAILS  | (4) TOE NAILS  |
| DOUBLE STUD  | NAILS @ 8" OC  | NAILS @ 8" OC  |
| DOUBLE TOP PLATES  | NAILS @ 12" OC   | NAILS @ 12" OC   |
| DOUBLE TOP PLATES LAP (24" MIN LAP LENGTH)                                 | (12) NAILS IN LAPPED AREA, EA SIDE OF JOINT                        | (12) NAILS IN LAPPED AREA, EA SIDE OF JOINT                        |
| TOP PLATE LAP AT CORNERS AND INTERSECTING WALLS                            | (3) FACE NAILS   | (3) FACE NAILS   |
| OPEN-WEB TRUSS BOTTOM CHORD TO TOP PLATES OR SILL PLATE (PARALLEL TO WALL) | NAILS @ 6" OC  | NAILS @ 4" OC  |
| BOTTOM CHORD OF TRUSS TO TOP PLATES OR SILL PLATE (PERPENDICULAR TO WALL)  | (3) TOE NAILS  | (3) TOE NAILS  |

SEE TABLE R602.3(1) FOR ADDITIONAL STRUCTURAL-MEMBER FASTENING REQUIREMENTS.

DETAILS AND NOTES ON DRAWINGS GOVERN.


**BALLOON WALL FRAMING SCHEDULE**  
(USE THESE STANDARDS UNLESS NOTED OTHERWISE ON THE FRAMING PLAN SHEETS)

| FRAMING MEMBER SIZE | MAX HEIGHT (PLATE TO PLATE)<br>115 MPH ULTIMATE DESIGN WIND SPEED |
|---------------------|---|
| 2x4 @ 16" OC        | 10'-0"  |
| 2x4 @ 12" OC        | 12'-0"  |
| 2x6 @ 16" OC        | 15'-0"  |
| 2x6 @ 12" OC        | 17'-9"  |
| 2x8 @ 16" OC        | 19'-0"  |
| 2x8 @ 12" OC        | 22'-0"  |
| (2) 2x4 @ 16" OC    | 14'-6"  |
| (2) 2x4 @ 12" OC    | 17'-0"  |
| (2) 2x6 @ 16" OC    | 21'-6"  |
| (2) 2x6 @ 12" OC    | 25'-0"  |
| (2) 2x8 @ 16" OC    | 27'-0"  |
| (2) 2x8 @ 12" OC    | 31'-0"  |


- ALL HEIGHTS ARE MEASURED SUBFLOOR TO TOP OF WALL PLATE.
- WHEN SPLIT-FRAMED WALLS ARE USED FOR HEIGHTS OVER 12', THE CONTRACTOR SHALL ADD 6' MINIMUM OF CS16 COIL STRAPPING (FULLY NAILED), CENTERED OVER THE WALL BREAK.
- FINGER-JOINTED MEMBERS MAY BE USED FOR CONTINUOUS HEIGHTS WHERE TRADITIONALLY MILLED LUMBER LENGTHS ARE LIMITED.
- FOR GREATER WIND SPEED, SEE ENGINEERED SOLUTION FOR CONDITION IN DRAWINGS.

**ROOF SYSTEMS**

**TRUSSED ROOF - STRUCTURAL NOTES**

- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
-  DENOTES OVER-FRAMED AREA
- MINIMUM 7/16" OSB ROOF SHEATHING
- TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

**STICK-FRAMED ROOF - STRUCTURAL NOTES**

- PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF RAFTERS, UNLESS NOTED OTHERWISE.
- FUR RIDGES FOR FULL RAFTER CONTACT.
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
-  DENOTES OVER-FRAMED AREA
- MINIMUM 7/16" OSB ROOF SHEATHING
- PROVIDE 2x4 RAFTER TIES AT 16" OC AT 45° BETWEEN RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH CONNECTION. RAFTER TIES MAY BE SPACED AT 48" OC AT LOCATIONS WHERE NO KNEE WALLS ARE INSTALLED.
- PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH RAFTER-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

| BRICK VENEER LINTEL SCHEDULE |   |                      |
|------------------------------|---|----------------------|
| SPAN                         | STEEL ANGLE SIZE  | END BEARING LENGTH   |
| UP TO 42"                    | L3-1/2"x3-1/2"x1/4"   | 8" (MIN. @ EACH END) |
| UP TO 72"                    | L6"x4"x5/16" (LLV)  | 8" (MIN. @ EACH END) |
| OVER 72"                     | L6"x4"x5/16" (LLV) ATTACH LINTEL w/ 1/2" THRU BOLT @ 12" OC, 3" FROM EACH END |                      |

\* FOR QUEEN BRICK: LINTELS AT THIS CONDITION MAY BE 5"x3-1/2"x5/16"

NOTE: BRICK LINTELS AT SLOPED AREAS TO BE 4"x3-1/2"x1/4" STEEL ANGLE WITH 16D NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" OC TO TRIPLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3"x3"x1/4" PLATES SHALL BE WELDED AT 24" OC ALONG THE STEEL ANGLE.



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CLIENT: **MATTAMY HOMES**

PROJECT: **VOYAGEUR - RH**

LOCATION: **NORTH CAROLINA**

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED



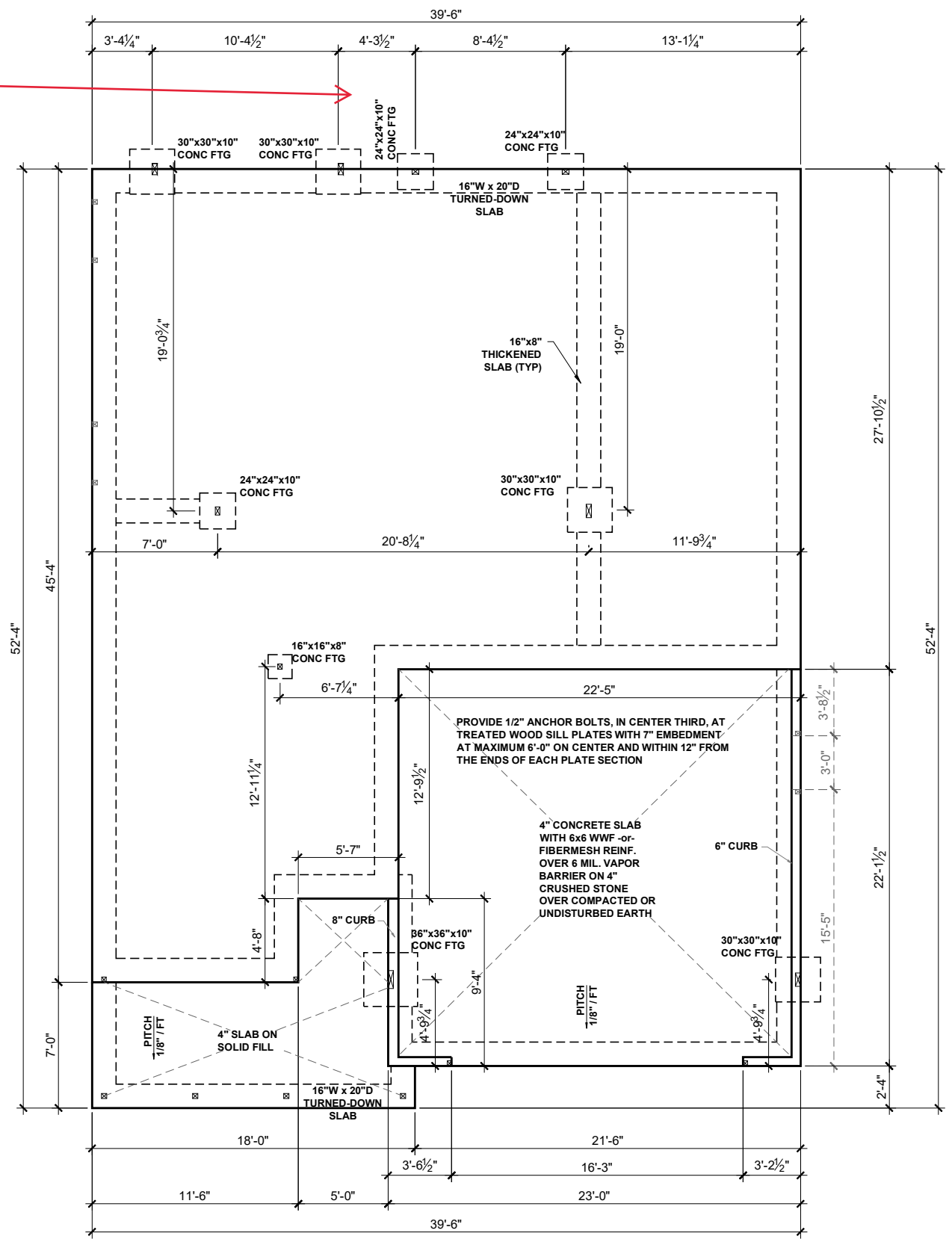
PROJECT NO.: **23900833**

DATE: **05/24/2023** DRAWN BY: **CAR**

GENERAL NOTES

**SN1.2**

Screen Porch PPO See Next Page



**SLAB FOUNDATION PLAN - FARMHOUSE**  
SCALE: 1/8"=1'-0"

**BEAM & POINT LOAD LEGEND**

- INTERIOR LOAD BEARING WALL
- - - ROOF RAFTER / TRUSS SUPPORT
- - - DOUBLE RAFTER / DOUBLE JOIST
- STRUCTURAL BEAM / GIRDER
- WINDOW / DOOR HEADER
- POINT LOAD TRANSFER
- POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

MAT CLT ONLY: ALL FOOTINGS TO HAVE CONTINUOUS (2) #4 REBAR.

**CONCRETE SLAB REINFORCING SUBSTITUTION OF SYNTHETIC FIBER MIX IN LIEU OF WWF IN NON STRUCTURAL SLABS:**

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON RAISED METAL DECKING
- NO SUBSTITUTION ALLOWED IN SLABS WITH GRADE BEAMS UNLESS A REBAR MAT IS INSTALLED
- NO SUBSTITUTION ALLOWED IF ANY SOILS HAVE BEEN FOUND TO BE EXPANSIVE SOILS ON SITE
- NO SUBSTITUTION ALLOWED FOR SLAB POURS DIRECTLY ON GRADE; A 4" BASE MATERIAL OF CRUSHED STONE OR WELL DRAINING CLEAN SAND IS REQUIRED FOR SUBSTITUTION
- NO SUBSTITUTION ALLOWED FOR ANY SITES WITH A DCP BLOW COUNT OF 10 OR LESS.
- FIBER MIX VOLUMES MUST BE FOLLOWED PER THE MANUFACTURES SPECIFICATIONS



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|           |   |
|-----------|---|
| CLIENT:   | <b>MATTAMY HOMES</b>  |
| PROJECT:  | <b>VOYAGEUR - RH</b>  |
| LOCATION: | <b>NORTH CAROLINA</b>   |
| SCALE:    | 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED |



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DATE: **05/24/2023** DRAWN BY: **CAR**

SLAB FOUNDATION PLAN

**S.10**



| BEAM & POINT LOAD LEGEND |  |
|--------------------------|--|
|                          | INTERIOR LOAD BEARING WALL                     |
|                          | ROOF RAFTER / TRUSS SUPPORT                    |
|                          | DOUBLE RAFTER / DOUBLE JOIST                   |
|                          | STRUCTURAL BEAM / GIRDER                       |
|                          | WINDOW / DOOR HEADER                           |
|                          | POINT LOAD TRANSFER                            |
|                          | POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER |

MAT CLT ONLY: ALL FOOTINGS TO HAVE CONTINUOUS (2) #4 REBAR.

SEE FULL PLAN FOR ADDITIONAL INFORMATION

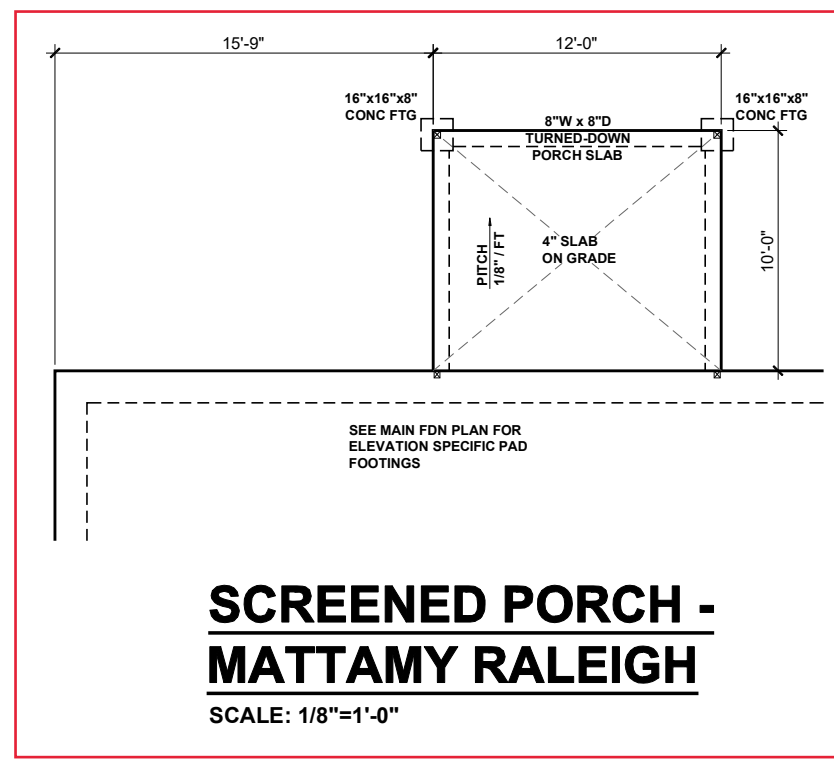


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**SLAB FOUNDATION OPTIONS - FARMHOUSE**  
SCALE: 1/8"=1'-0"

|           |   |
|-----------|---|
| CLIENT:   | MATTAMY HOMES   |
| PROJECT:  | VOYAGEUR - RH   |
| LOCATION: | NORTH CAROLINA  |
| SCALE:    | 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED |

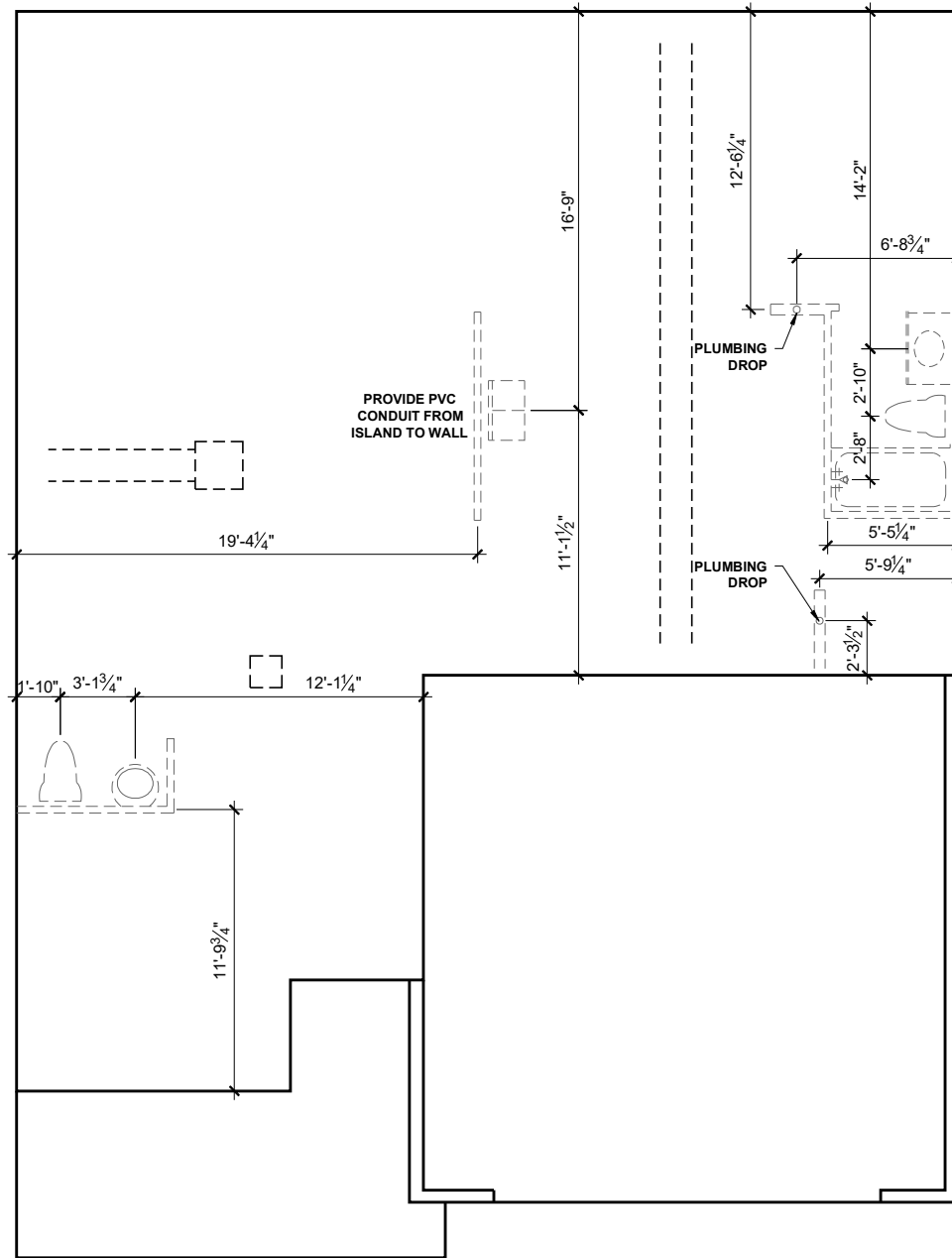


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PLAN OPTIONS  
SLAB FOUNDATION PLANS

**S.11**



**PLUMBING PLAN - FARMHOUSE**  
 SCALE: 1/8"=1'-0"

**BEAM & POINT LOAD LEGEND**

|  |  |
|--|--|
|  | INTERIOR LOAD BEARING WALL                     |
|  | ROOF RAFTER / TRUSS SUPPORT                    |
|  | DOUBLE RAFTER / DOUBLE JOIST                   |
|  | STRUCTURAL BEAM / GIRDER                       |
|  | WINDOW / DOOR HEADER                           |
|  | POINT LOAD TRANSFER                            |
|  | POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER |

MAT CLT ONLY: ALL FOOTINGS TO HAVE CONTINUOUS (2) #4 REBAR.



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|           |   |
|-----------|---|
| CLIENT:   | <b>MATTAMY HOMES</b>  |
| PROJECT:  | <b>VOYAGEUR - RH</b>  |
| LOCATION: | <b>NORTH CAROLINA</b>   |
| SCALE:    | 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED |



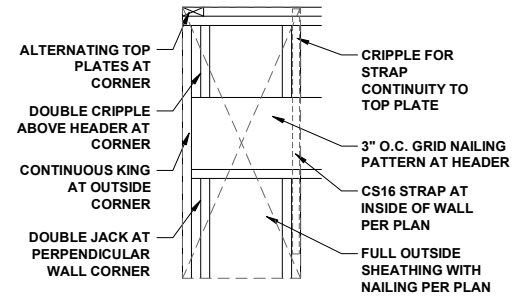
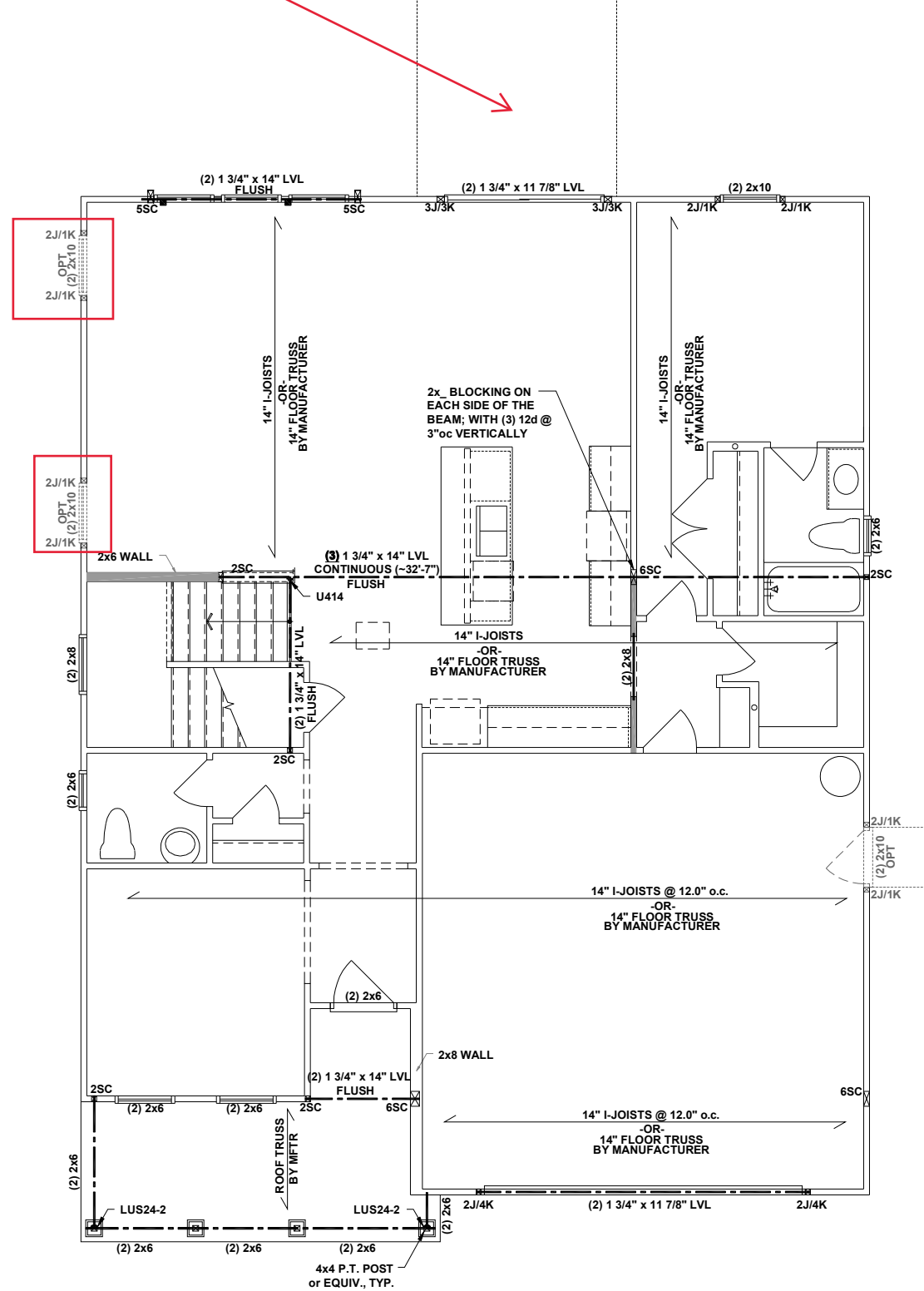
PROJECT NO.: **23900833**

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PLAN OPTIONS  
 SLAB FOUNDATION PLANS

**S.13**

Screen Porch PPO See Next Page



**PORTAL FRAMED OR ENGINEERED OPENING OUTSIDE CORNER DETAIL**

NTS

**BEAM & POINT LOAD LEGEND**

|           |  |
|-----------|--|
| —         | INTERIOR LOAD BEARING WALL                     |
| - - -     | ROOF RAFTER / TRUSS SUPPORT                    |
| - · - · - | DOUBLE RAFTER / DOUBLE JOIST                   |
| - - -     | STRUCTURAL BEAM / GIRDER                       |
| - - -     | WINDOW / DOOR HEADER                           |
| ■         | POINT LOAD TRANSFER                            |
| ■         | POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER |

- STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)**
- ALL FRAMING TO BE #2 SPF MINIMUM.
  - ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
  - EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
  - ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
  - PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
  - ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
  - ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
  - ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
  - FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
  - PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
  - WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).
  - FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2x STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING

\*\*REFER TO I-JOIST EQUIVALENCES CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

EXTRA JOISTS UNDER ALL NON LOAD BEARING WALLS THAT RUN AT LEAST 30% OF THE JOIST SPAN.



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|           |  |
|-----------|--|
| CLIENT:   | <b>MATTAMY HOMES</b>   |
| PROJECT:  | <b>VOYAGEUR - RH</b>   |
| LOCATION: | <b>NORTH CAROLINA</b>  |
| SCALE:    | 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 2x24 PAPER, OR AS NOTED |



PROJECT NO.: **23900833**

DATE: **05/24/2023** DRAWN BY: **CAR**

FIRST FLOOR CEILING FRAMING PLAN

**S1.0**

**FIRST FLOOR CEILING FRAMING PLAN - FARMHOUSE**

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

| BEAM & POINT LOAD LEGEND |  |
|--------------------------|--|
|                          | INTERIOR LOAD BEARING WALL                     |
|                          | ROOF RAFTER / TRUSS SUPPORT                    |
|                          | DOUBLE RAFTER / DOUBLE JOIST                   |
|                          | STRUCTURAL BEAM / GIRDER                       |
|                          | WINDOW / DOOR HEADER                           |
|                          | POINT LOAD TRANSFER                            |
|                          | POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER |

- STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)**
- ALL FRAMING TO BE #2 SPF MINIMUM.
  - ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
  - EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
  - ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
  - PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
  - ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
  - ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
  - ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
  - FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
  - PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
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  - FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

SEE FULL PLAN FOR ADDITIONAL INFORMATION

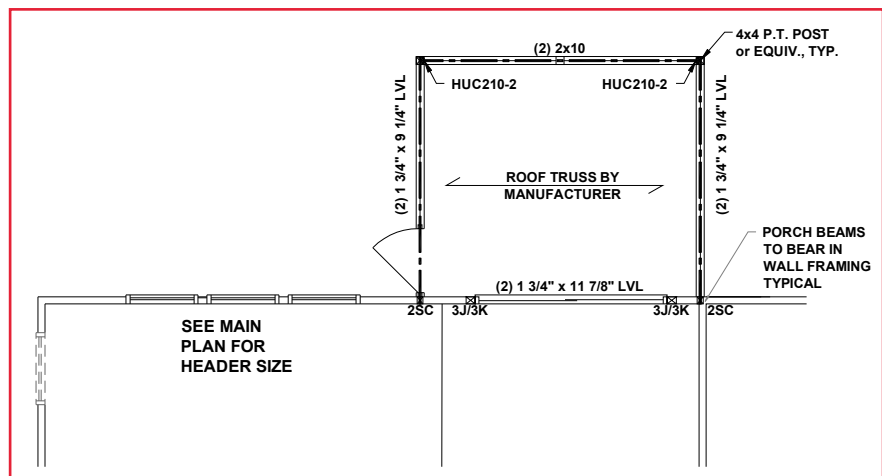


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**SCREENED PORCH -  
MATTAMY RALEIGH**

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

**FIRST FLOOR CEILING FRAMING PLAN OPTIONS -  
FARMHOUSE**

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

|           |  |
|-----------|--|
| CLIENT:   | MATTAMY HOMES  |
| PROJECT:  | VOYAGEUR - RH  |
| LOCATION: | NORTH CAROLINA   |
| SCALE:    | 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 2x34 PAPER, OR AS NOTED |

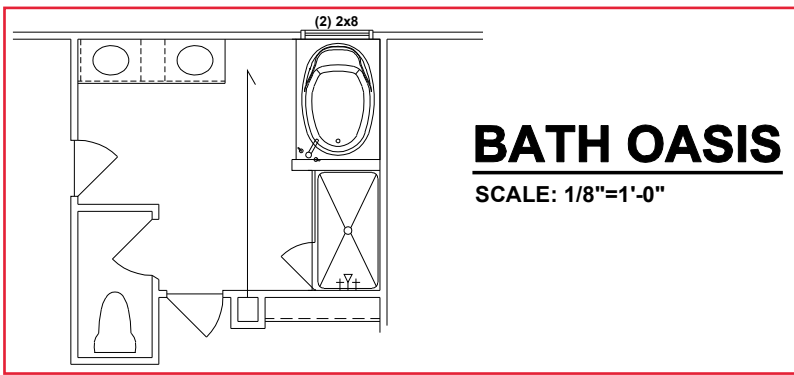


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**23900833**

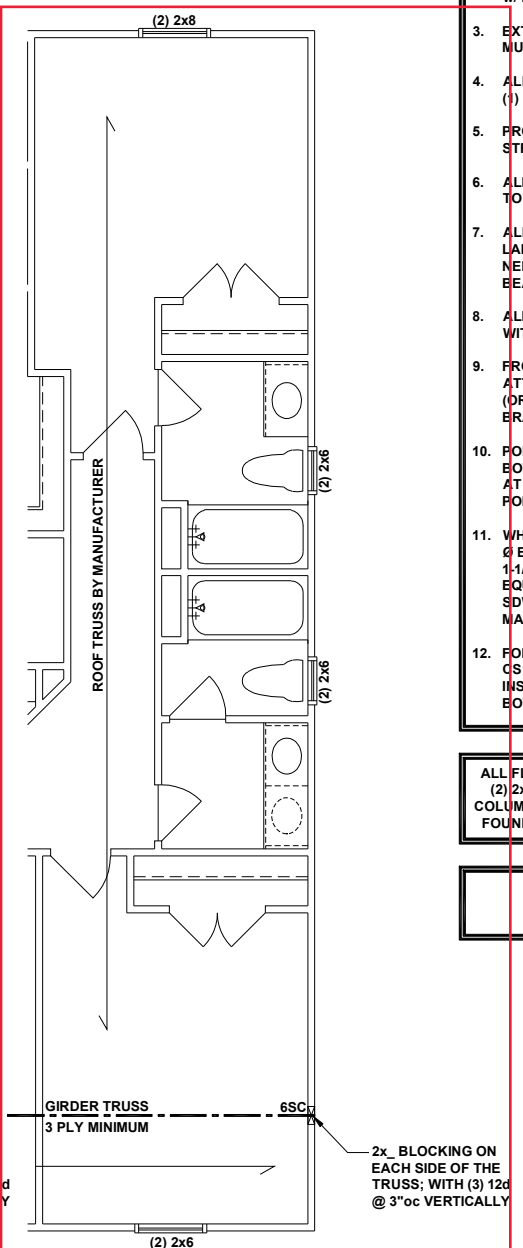
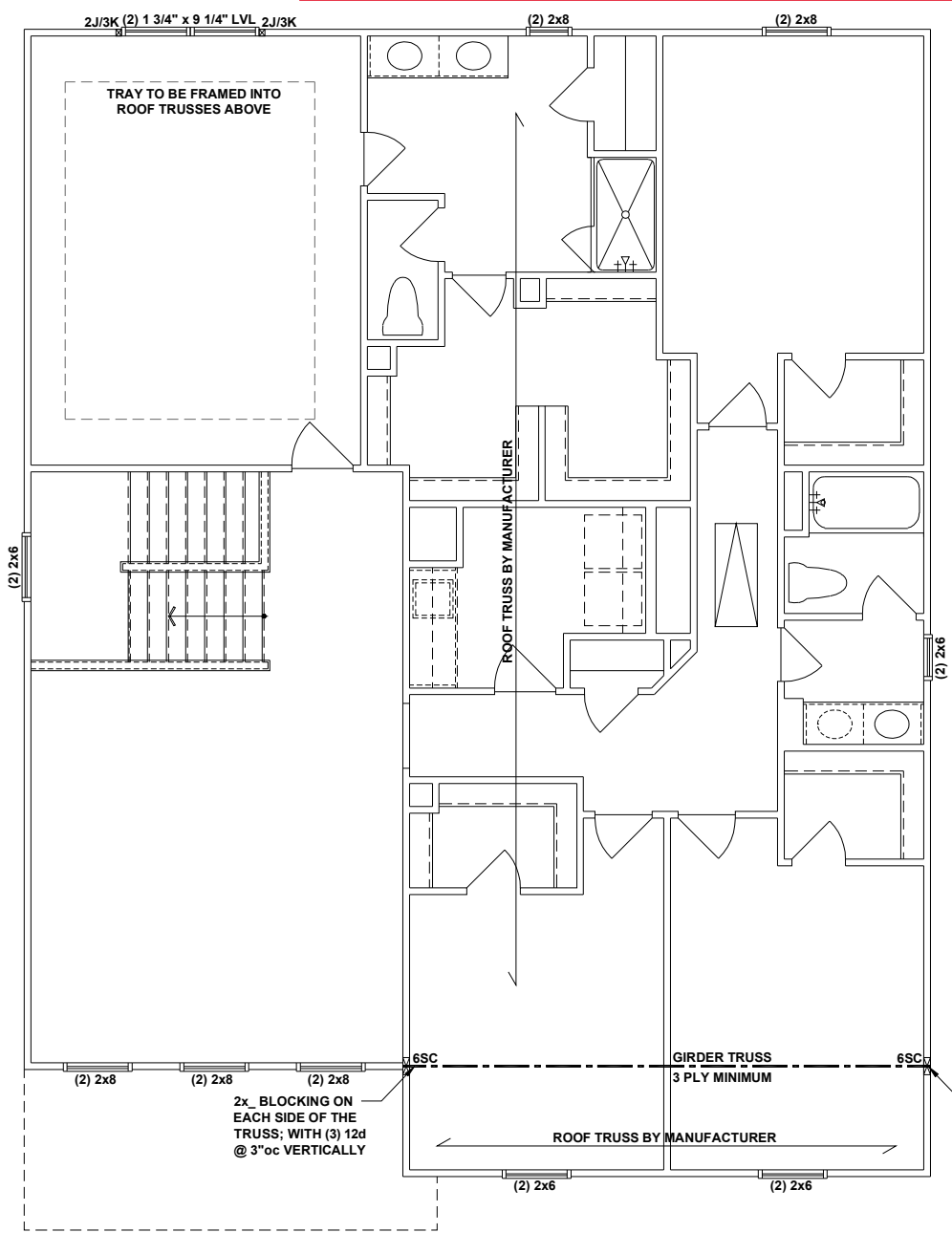
|                            |                         |
|----------------------------|-------------------------|
| DATE:<br><b>05/24/2023</b> | DRAWN BY:<br><b>CAR</b> |
|----------------------------|-------------------------|

FIRST FLOOR OPTIONS  
CEILING FRAMING PLANS

**S1.1**



**BATH OASIS**  
SCALE: 1/8"=1'-0"



**OPT BATH 4/5**  
SCALE: 1/8"=1'-0"

**BEAM & POINT LOAD LEGEND**

|  |  |
|--|--|
|  | INTERIOR LOAD BEARING WALL                     |
|  | ROOF RAFTER / TRUSS SUPPORT                    |
|  | DOUBLE RAFTER / DOUBLE JOIST                   |
|  | STRUCTURAL BEAM / GIRDER                       |
|  | WINDOW / DOOR HEADER                           |
|  | POINT LOAD TRANSFER                            |
|  | POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER |

- STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)**
- ALL FRAMING TO BE #2 SPF MINIMUM.
  - ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK AND (1) KING EACH END, UNO.
  - EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
  - ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
  - PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
  - ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
  - ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
  - ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
  - FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
  - PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
  - WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).
  - FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2x STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

ALL OTHER 2ND FLOOR OPTIONS DO NOT AFFECT THE STRUCTURE



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|           |   |
|-----------|---|
| CLIENT:   | MATTAMY HOMES   |
| PROJECT:  | VOYAGEUR - RH   |
| LOCATION: | NORTH CAROLINA  |
| SCALE:    | 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED |



PROJECT NO.: 23900833

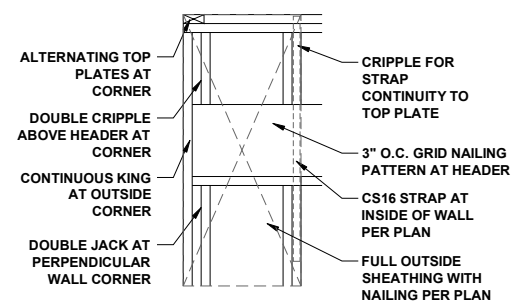
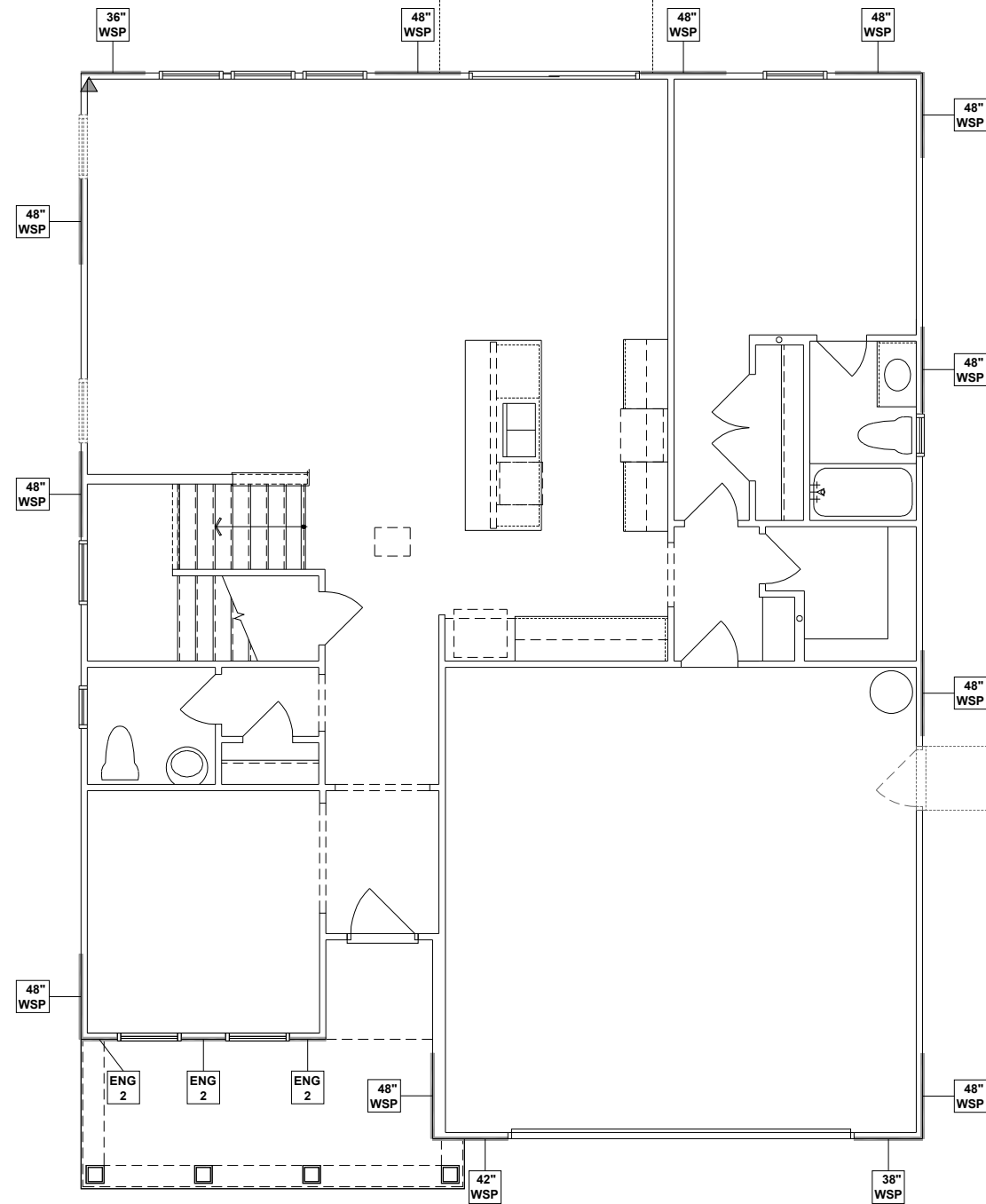
DATE: 05/24/2023 DRAWN BY: CAR

SECOND FLOOR CEILING FRAMING PLAN

**S2.0**

**SECOND FLOOR CEILING FRAMING PLAN - FARMHOUSE**

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

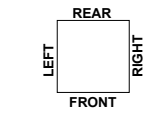


**PORTAL FRAMED OR ENGINEERED OPENING OUTSIDE CORNER DETAIL**

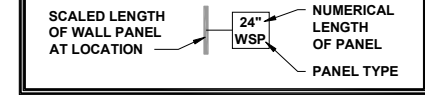
NTS

**WALL BRACING REQUIREMENTS**

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S).
- SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



- ◆ CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM
- ▶ SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED w/ SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.



**ENGINEERED WALL SCHEDULE**

- ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.
- ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.
- ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED **BOTH SIDES** WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.
- ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

**WALL BRACING NOTE:**

WALLS WITH PROVIDED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

**WALL BRACING: RECTANGLE 1**

| SIDE  | REQUIRED LENGTH | PROVIDED LENGTH |
|-------|-----------------|-----------------|
| FRONT | 13.5 FT.        | N/A             |
| RIGHT | 10.0 FT.        | 16.0 FT.        |
| REAR  | 13.5 FT.        | 15.0 FT.        |
| LEFT  | 10.0 FT.        | 16.0 FT.        |



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CLIENT: **MATTAMY HOMES**

PROJECT: **VOYAGEUR - RH**

LOCATION: **NORTH CAROLINA**

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 2x34 PAPER, OR AS NOTED



PROJECT NO.: **23900833**

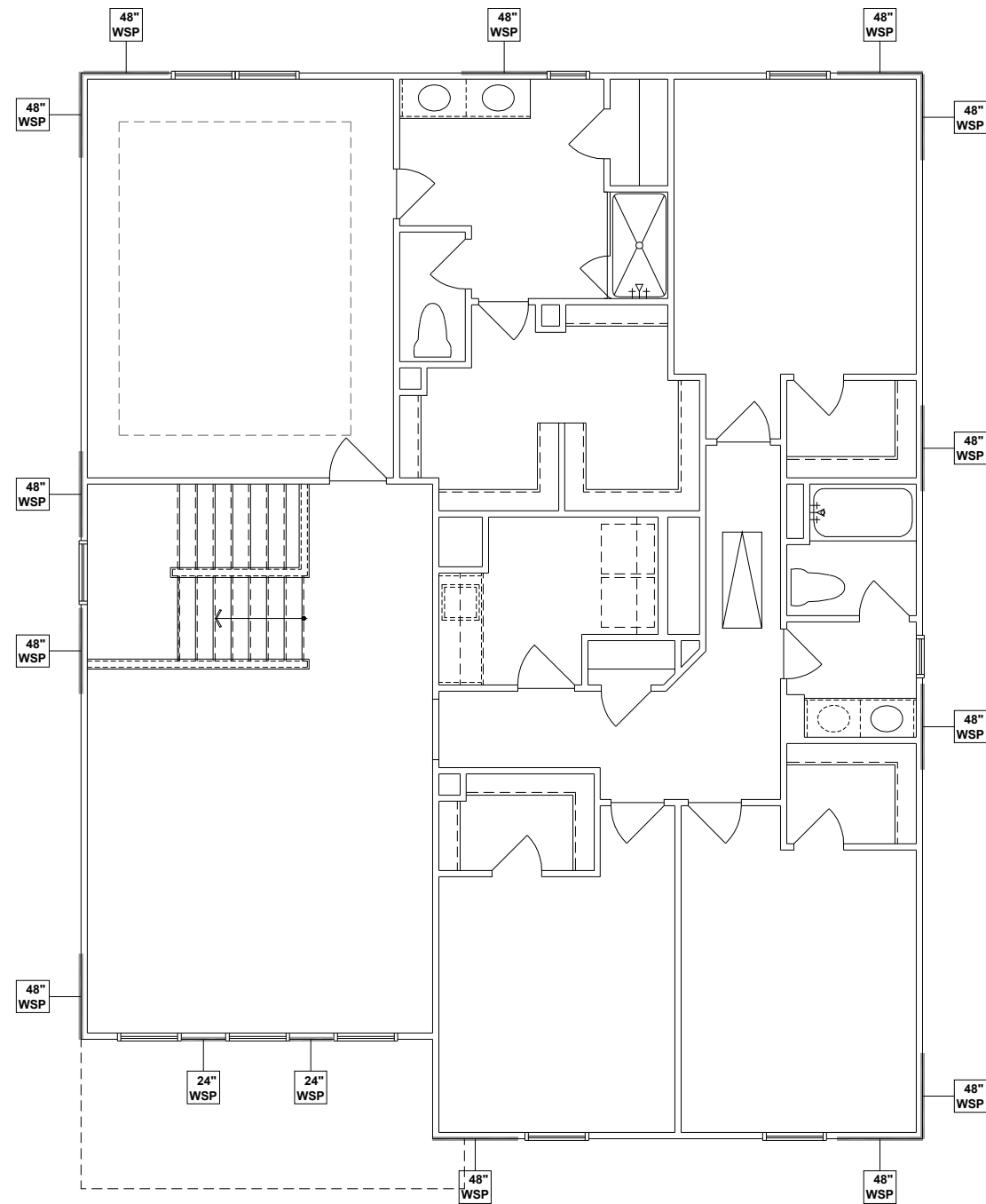
DATE: **05/24/2023** DRAWN BY: **CAR**

FIRST FLOOR WALL BRACING PLAN

**S4.0**

**FIRST FLOOR WALL BRACING PLAN - FARMHOUSE**

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



**WALL BRACING REQUIREMENTS**

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
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- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S).
- SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:

- ◆ CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM
- ▶ SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED w/ SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH OF WALL PANEL AT LOCATION

24\"/>

NUMERICAL LENGTH OF PANEL

PANEL TYPE

**ENGINEERED WALL SCHEDULE**

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED **BOTH SIDES** WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

**WALL BRACING NOTE:**

WALLS WITH PROVIDED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

**WALL BRACING: RECTANGLE 1**

| SIDE  | REQUIRED LENGTH | PROVIDED LENGTH |
|-------|-----------------|-----------------|
| FRONT | 6.5 FT.         | 12.0 FT.        |
| RIGHT | 5.5 FT.         | 16.0 FT.        |
| REAR  | 6.5 FT.         | 12.0 FT.        |
| LEFT  | 5.5 FT.         | 16.0 FT.        |



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CLIENT: **MATTAMY HOMES**

PROJECT: **VOYAGEUR - RH**

LOCATION: **NORTH CAROLINA**

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 2x34 PAPER, OR AS NOTED



PROJECT NO.: **23900833**

DATE: **05/24/2023** DRAWN BY: **CAR**

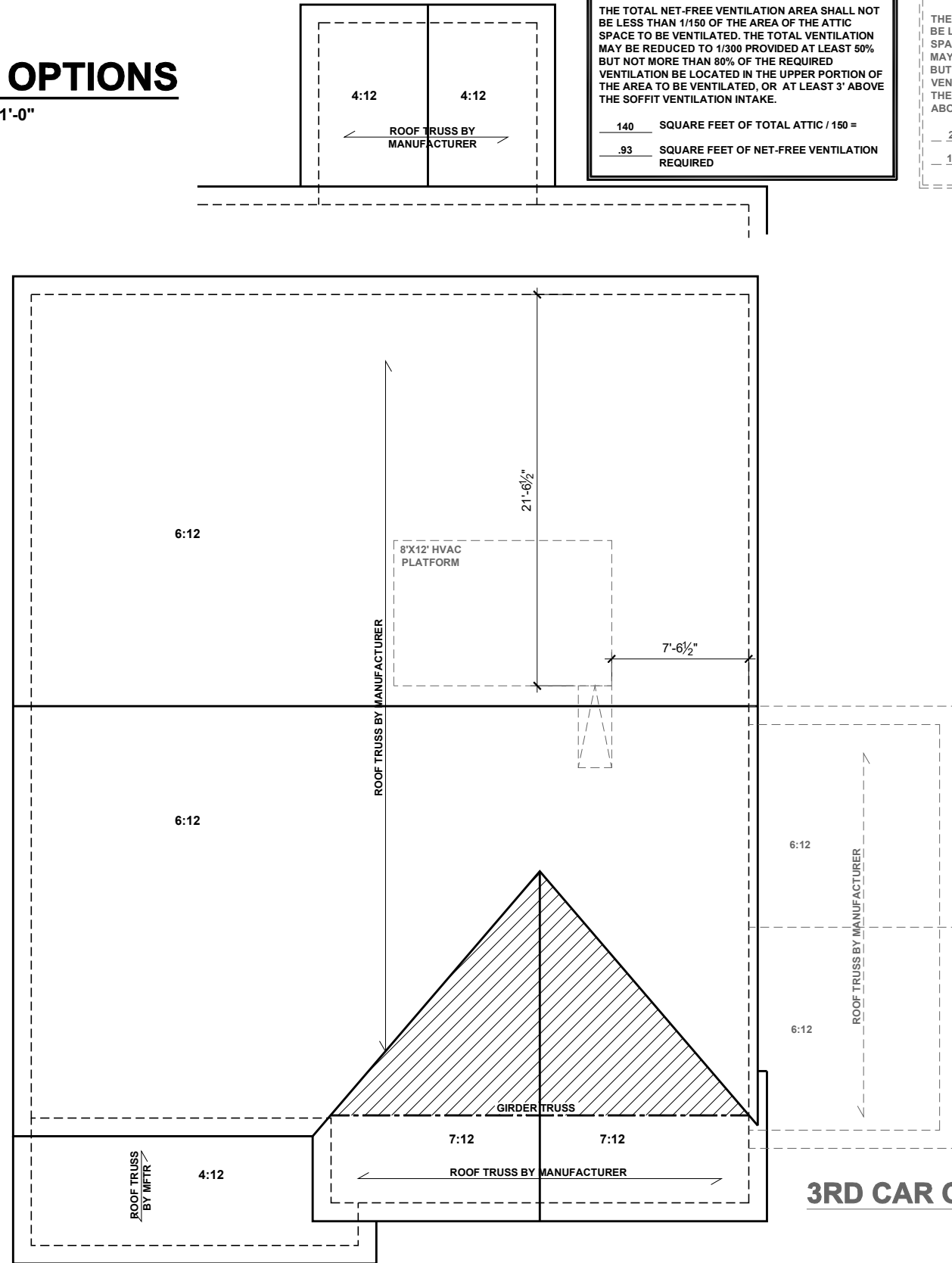
SECOND FLOOR WALL BRACING PLAN

**S5.0**

**SECOND FLOOR WALL BRACING PLAN - FARMHOUSE**  
SCALE: 1/8"=1'-0"

# REAR OPTIONS

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



### ATTIC VENTILATION: REAR OPTIONS

THE TOTAL NET-FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3' ABOVE THE SOFFIT VENTILATION INTAKE.

140 SQUARE FEET OF TOTAL ATTIC / 150 =  
 .93 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

### ATTIC VENTILATION - 3RD CAR

THE TOTAL NET-FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3' ABOVE THE SOFFIT VENTILATION INTAKE.

280 SQUARE FEET OF TOTAL ATTIC / 150 =  
 1.87 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

### BEAM & POINT LOAD LEGEND

- INTERIOR LOAD BEARING WALL
- - - ROOF RAFTER / TRUSS SUPPORT
- - - - DOUBLE RAFTER / DOUBLE JOIST
- - - STRUCTURAL BEAM / GIRDER
- WINDOW / DOOR HEADER
- POINT LOAD TRANSFER
- POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

### TRUSSED ROOF - STRUCTURAL NOTES

- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- DENOTES OVER-FRAMED AREA
- MINIMUM 7/16" OSB ROOF SHEATHING
- TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

### ATTIC VENTILATION

THE TOTAL NET-FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3' ABOVE THE SOFFIT VENTILATION INTAKE.

2204 SQUARE FEET OF TOTAL ATTIC / 150 =  
 14.7 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

### TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING

TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS, OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE:

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

| ROOF PLAN | CONNECTOR   |
|-----------|---|
| UP TO 28' | NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION   |
| OVER 28'  | (1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM<br><br>OR (1) SIMPSON H3 CLIP TO SINGLE 2x4 PLATE |



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CLIENT: **MATTAMY HOMES**

PROJECT: **VOYAGEUR - RH**

LOCATION: **NORTH CAROLINA**

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 24x34 PAPER, OR AS NOTED



PROJECT NO.: **23900833**

DATE: **05/24/2023** DRAWN BY: **CAR**

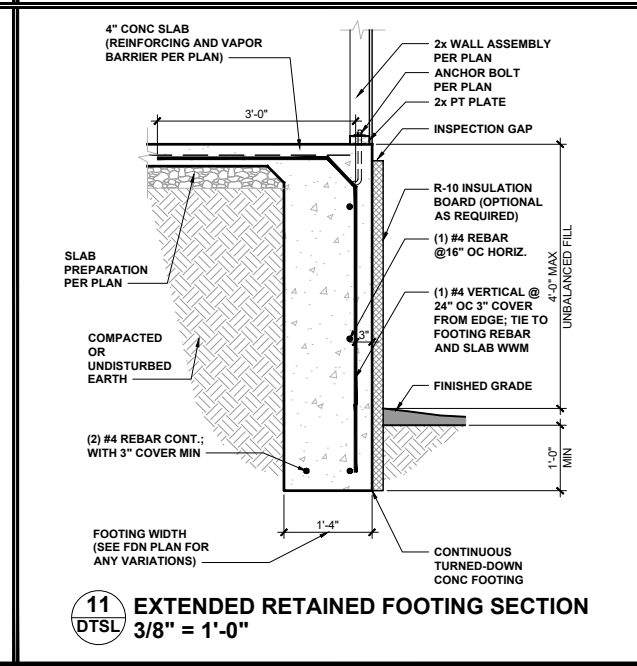
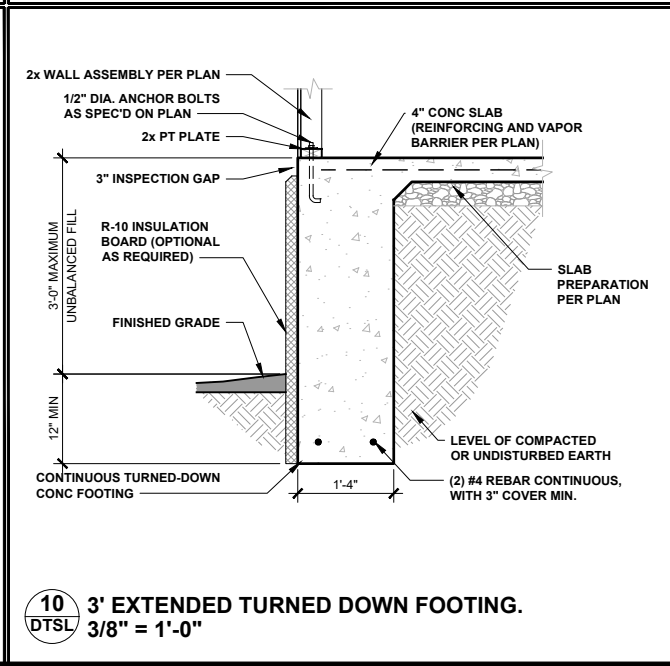
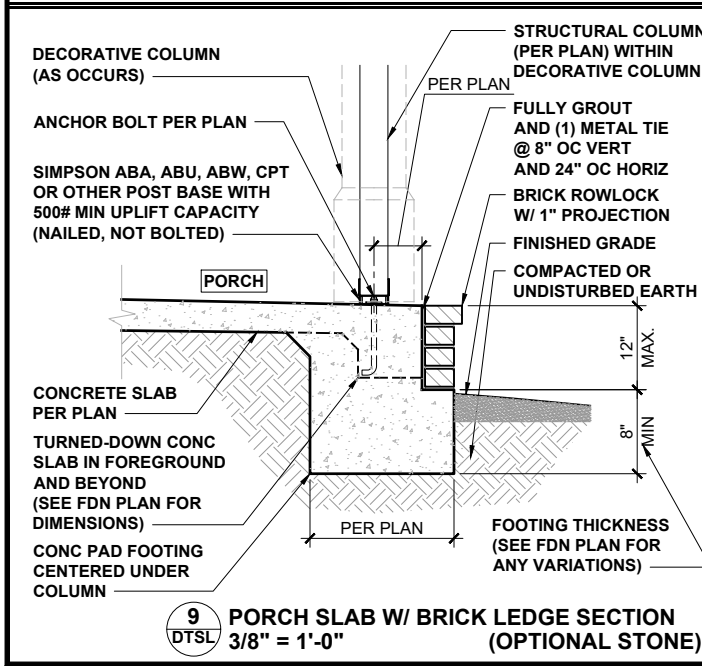
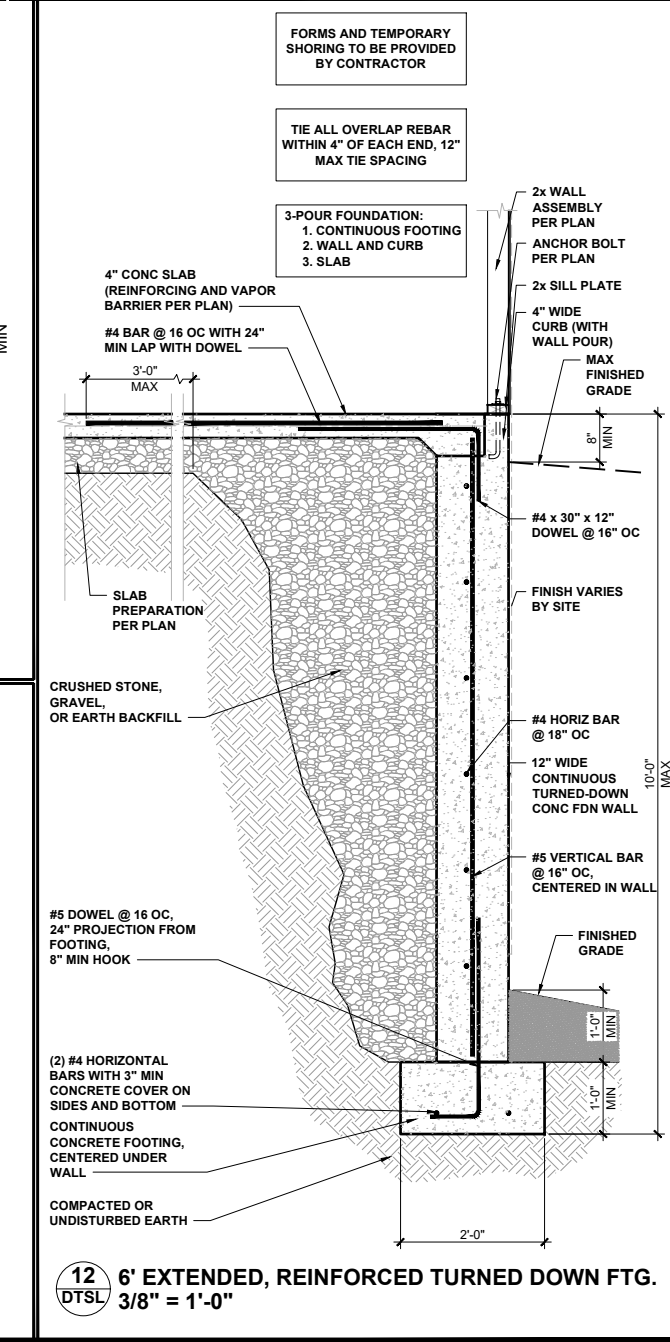
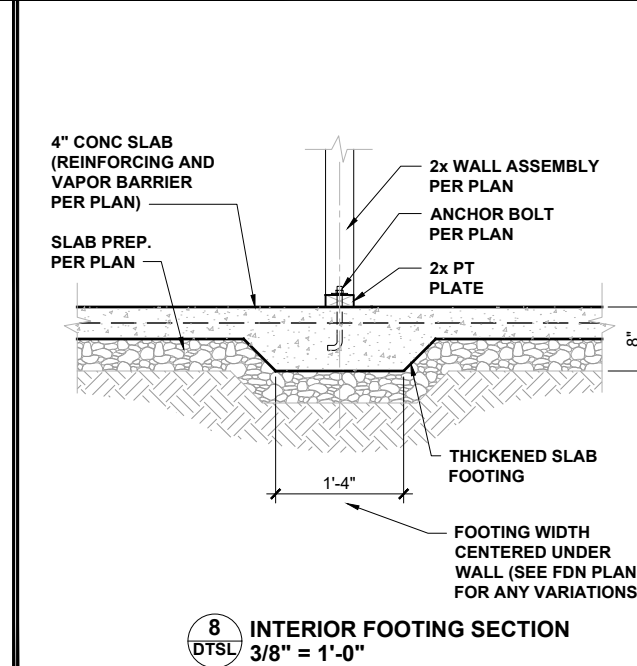
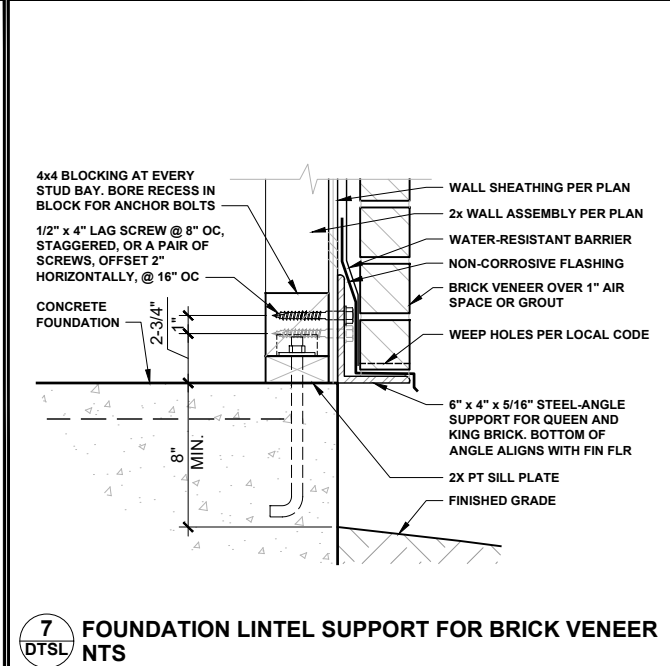
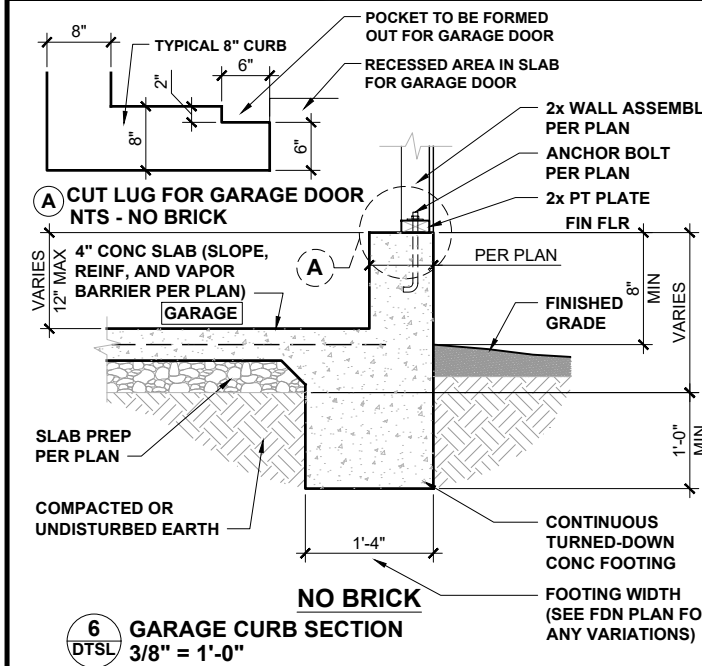
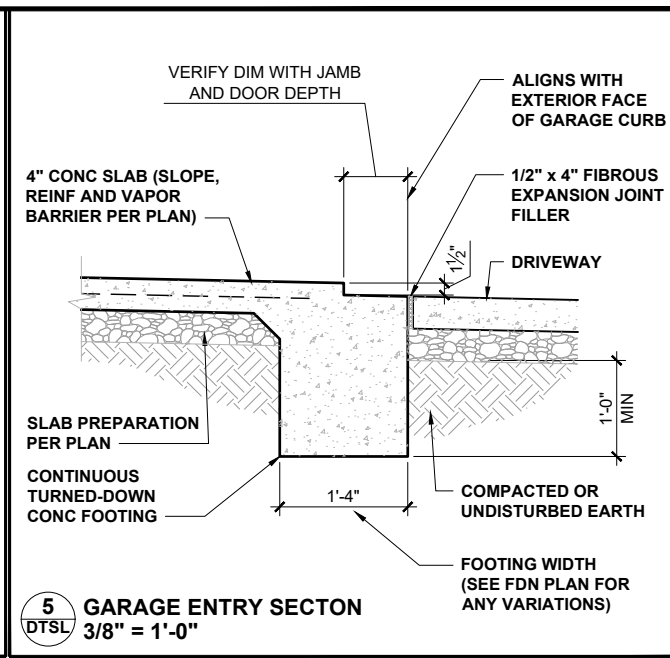
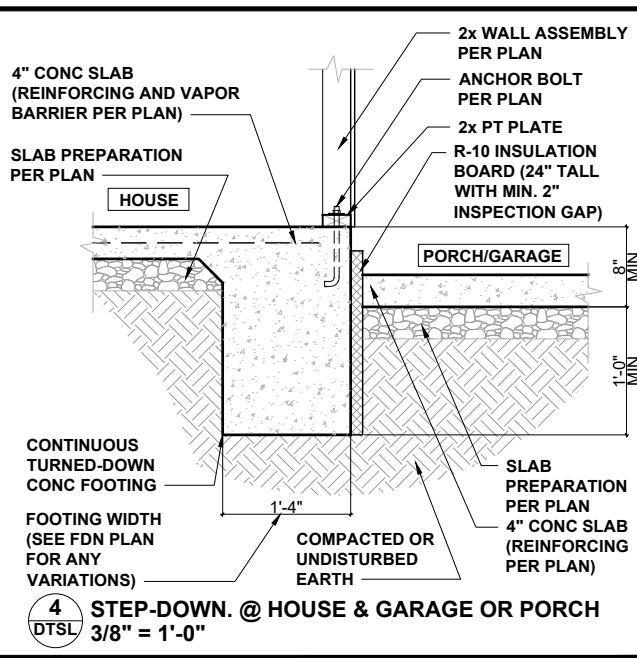
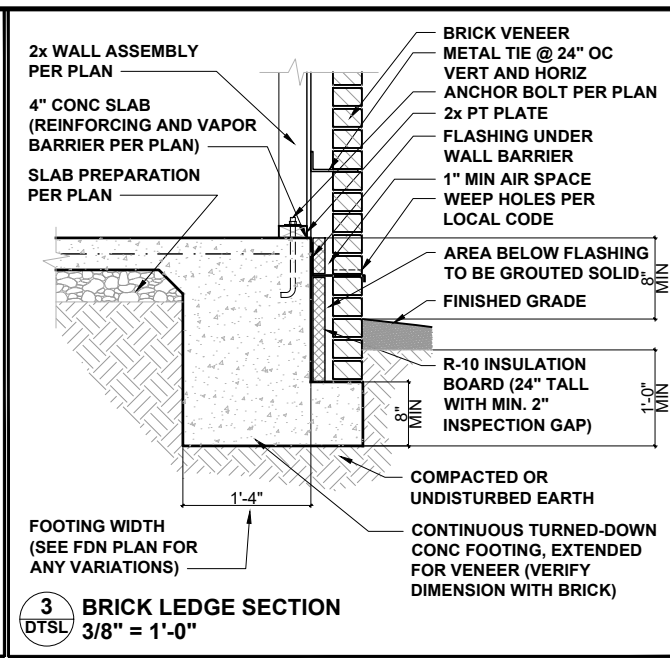
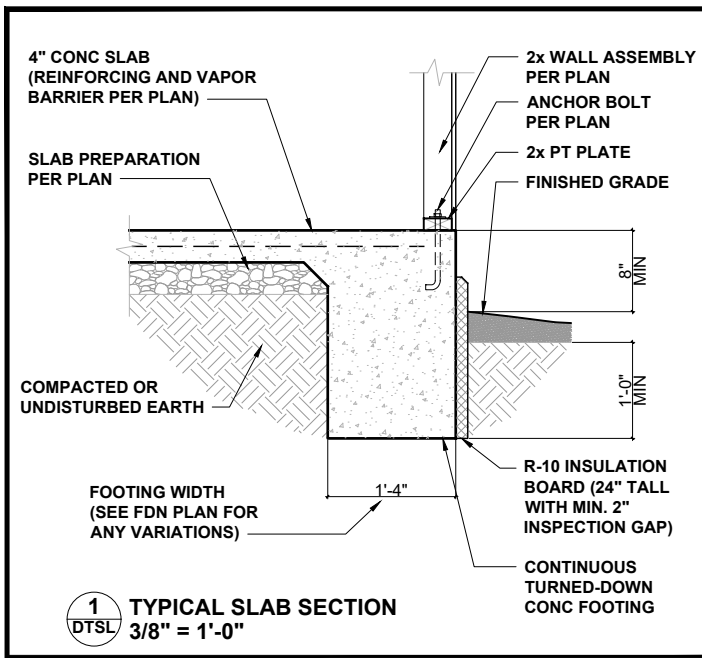
ROOF FRAMING PLAN

**S7.0**

# ROOF FRAMING PLAN - FARMHOUSE

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





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CLIENT: **MATTAMY HOMES**

PROJECT: **STANDARD DETAILS**

LOCATION: **NORTH CAROLINA**

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

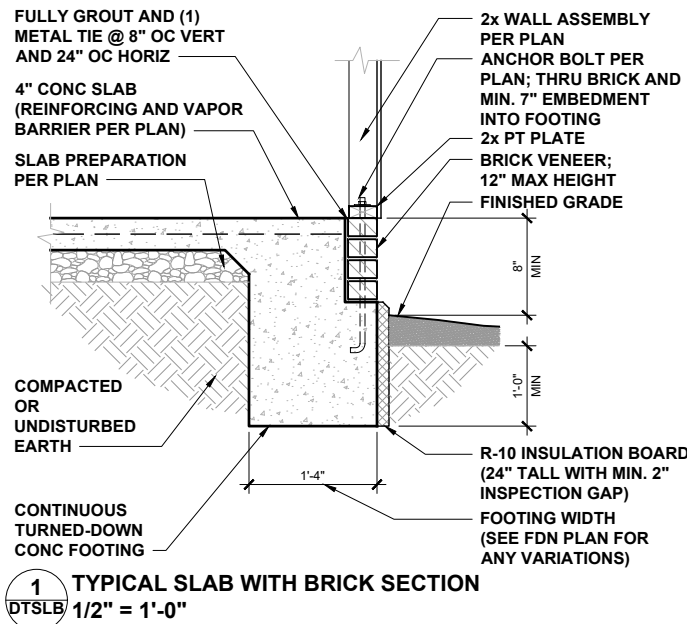
**mattamyHOMES**

PROJECT NO.: **STANDARD DETAILS**

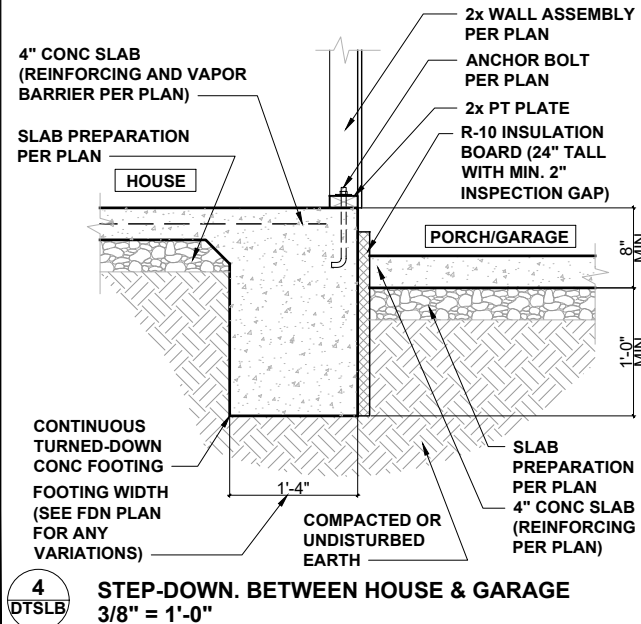
DATE: **04/27/2023** DRAWN BY: **CAR**

SLAB FOUNDATION DETAILS

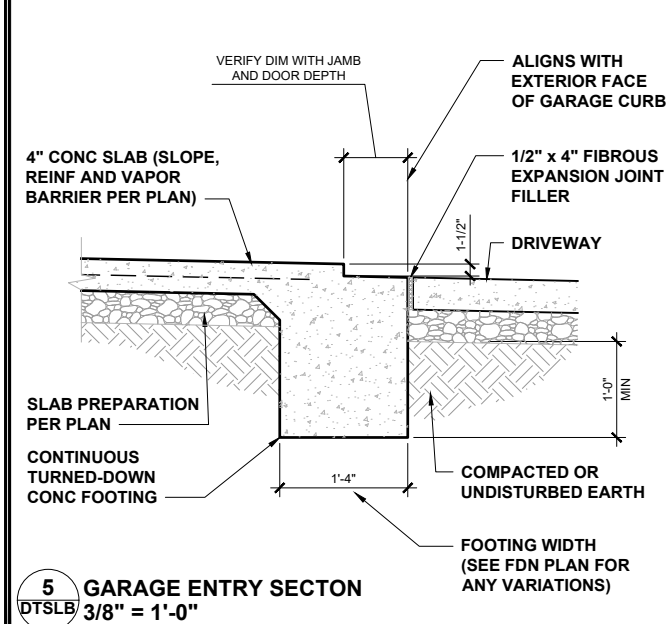
**DTSL**



**1 TYPICAL SLAB WITH BRICK SECTION**  
DTSLB 1/2" = 1'-0"

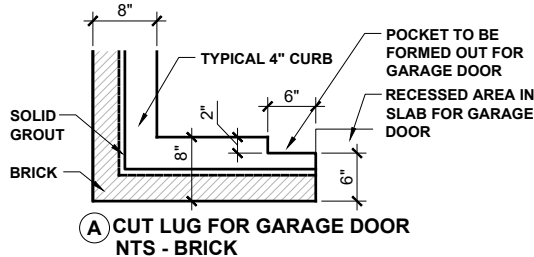


**4 STEP-DOWN BETWEEN HOUSE & GARAGE**  
DTSLB 3/8" = 1'-0"



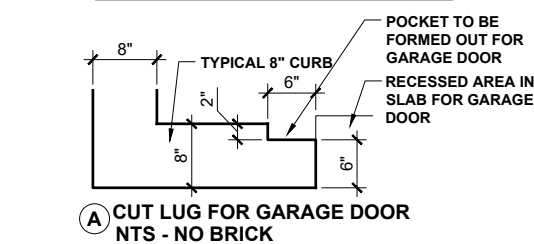
**5 GARAGE ENTRY SECTION**  
DTSLB 3/8" = 1'-0"

**CURB W/ BRICK MAY NOT BE USED FOR PORTAL FRAMED OPENINGS**

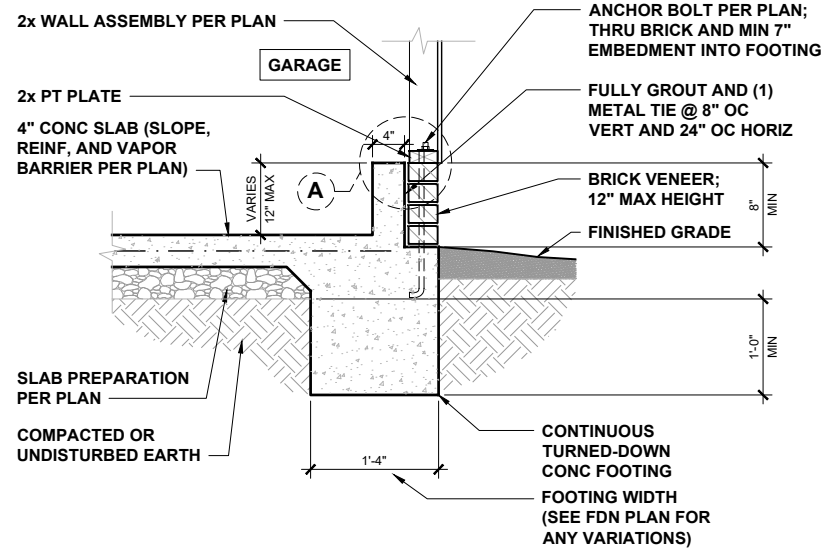


**A CUT LUG FOR GARAGE DOOR NTS - BRICK**

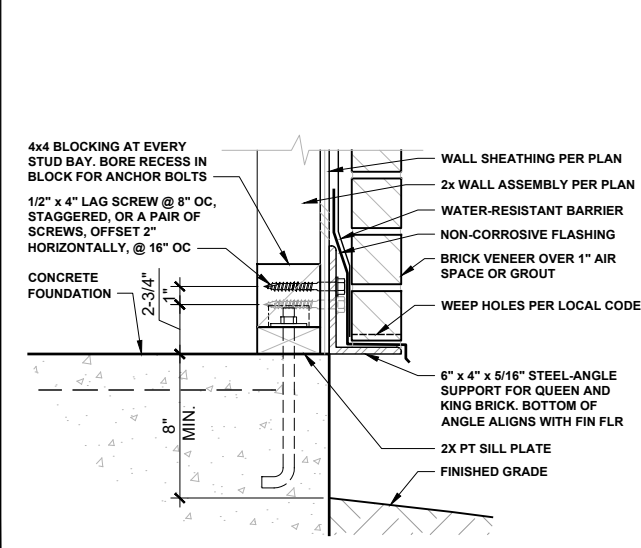
**SOLID CURB MAY BE USED FOR PORTAL FRAMED OPENINGS**



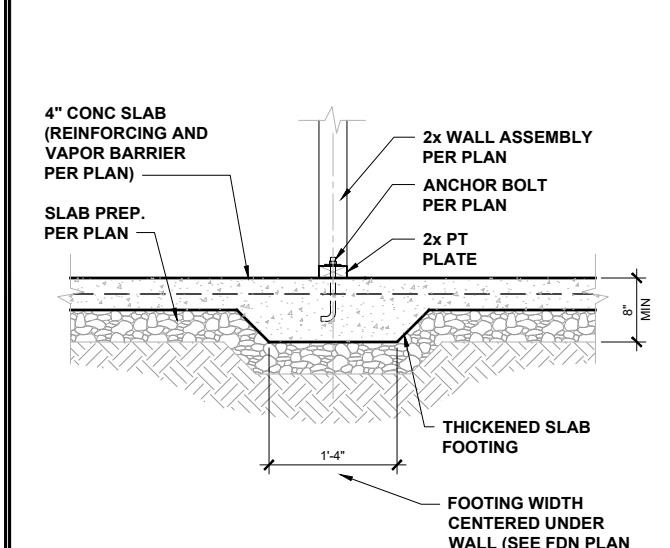
**A CUT LUG FOR GARAGE DOOR NTS - NO BRICK**



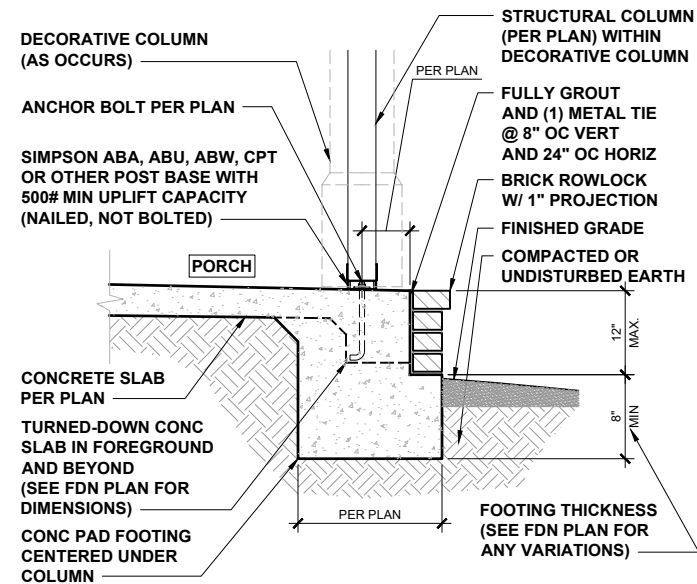
**6 GARAGE CURB SECTION WITH BRICK**  
DTSLB 3/8" = 1'-0"



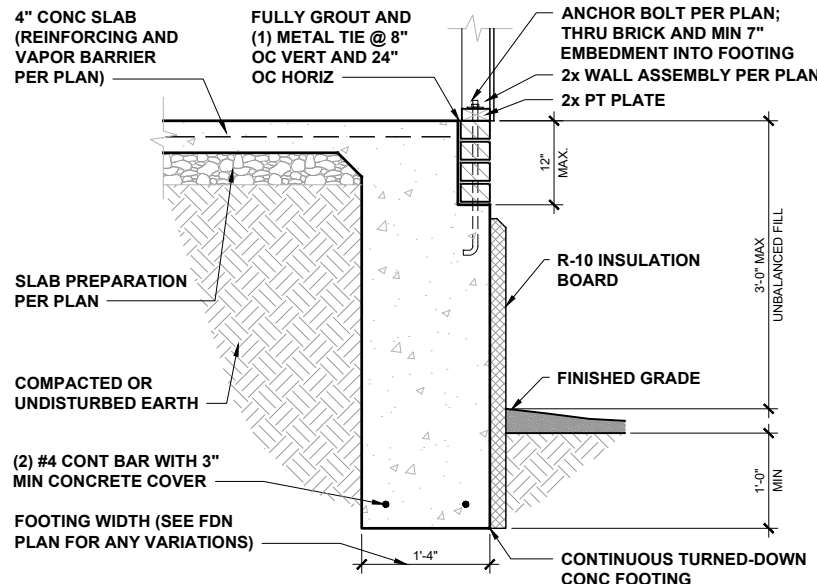
**7 FOUNDATION LINTEL SUPPORT FOR BRICK VENEER**  
DTSLB NTS



**8 INTERIOR FOOTING SECTION**  
DTSLB 3/8" = 1'-0"



**9 PORCH SLAB W/ BRICK LEDGE SECTION**  
DTSLB 3/8" = 1'-0"



**10 3' EXTENDED TURNED DOWN FOOTING**  
DTSLB 3/8" = 1'-0"



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CLIENT: **MATTAMY HOMES**

PROJECT: **STANDARD DETAILS**

LOCATION: **NORTH CAROLINA**

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

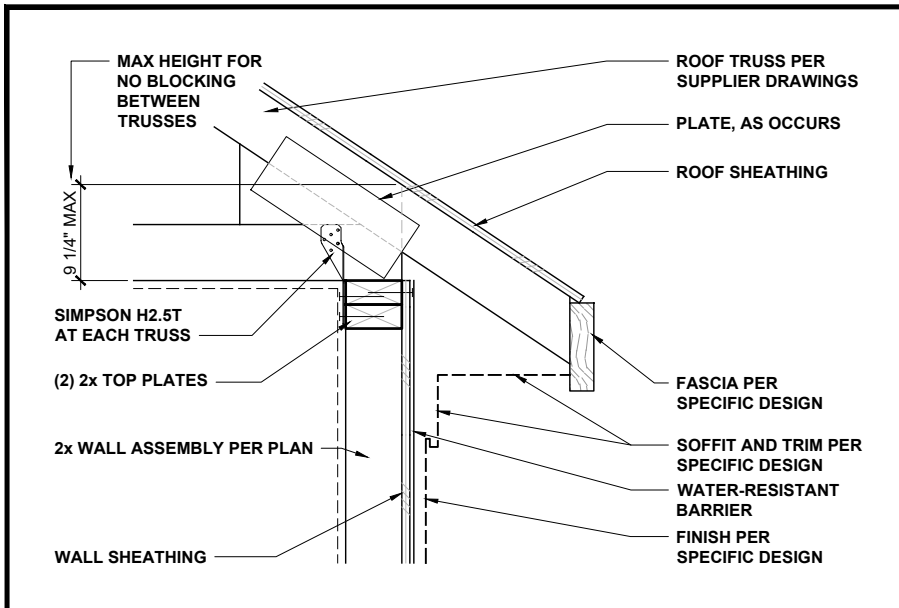


PROJECT NO.: **STANDARD DETAILS**

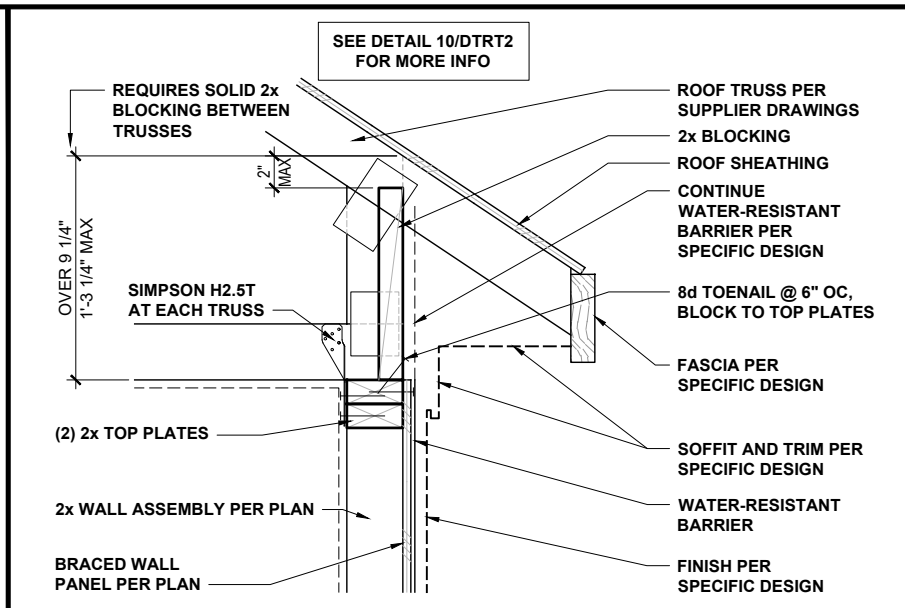
DATE: **04/27/2023** DRAWN BY: **CAR**

SLAB FOUNDATION DETAILS WITH BRICK

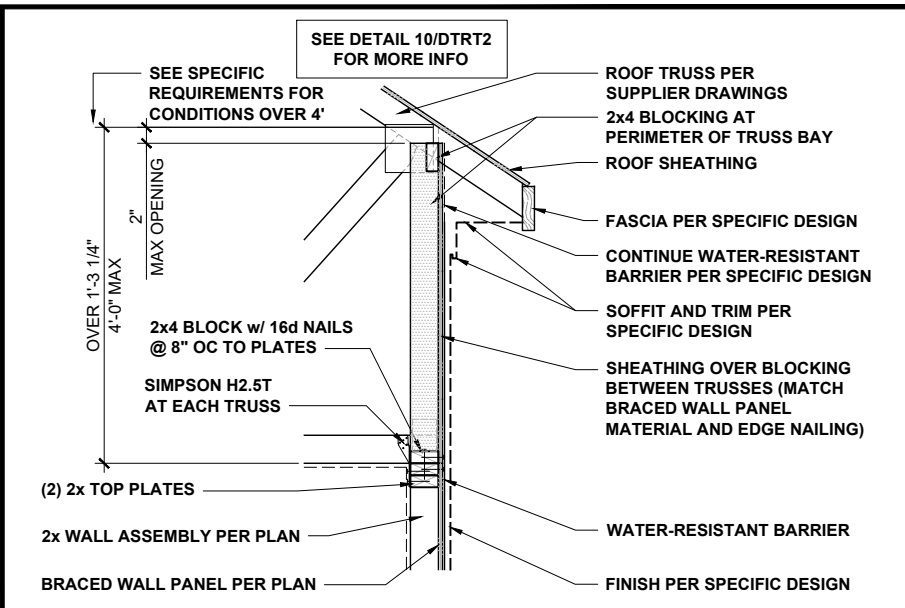
**DTSLB**



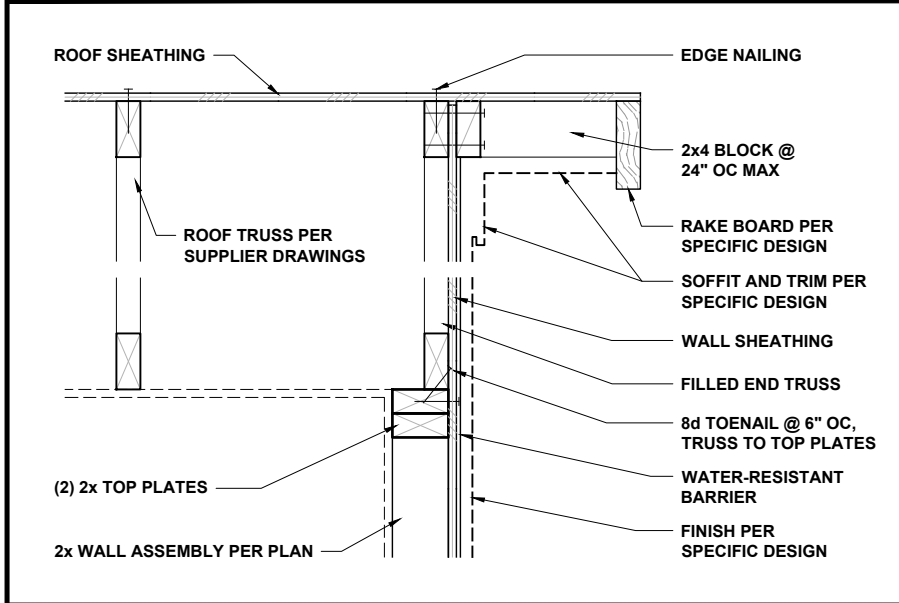
**LOW-HEEL TRUSS AT WALL** 1" = 1'-0" **1**



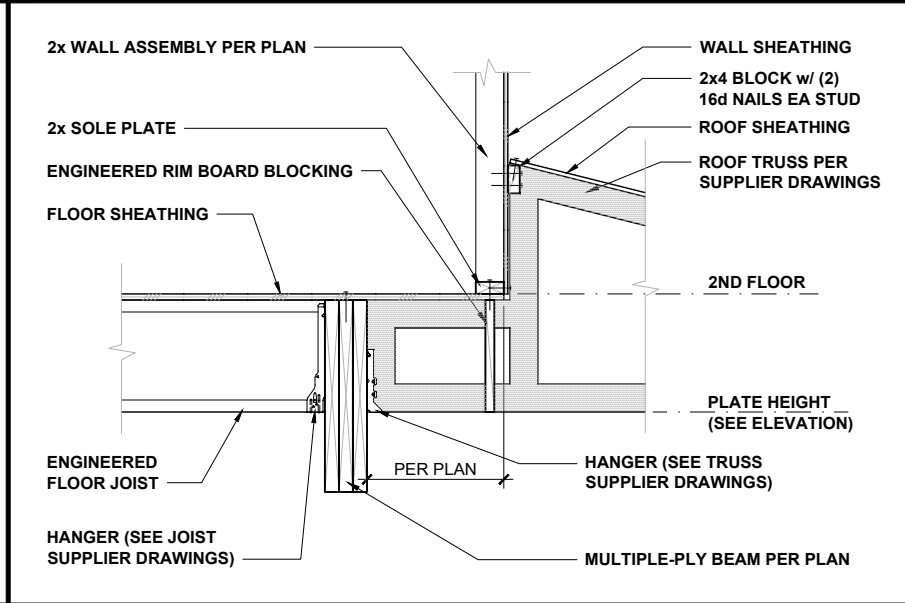
**TYPICAL TRUSS AT BRACED WALL** 1" = 1'-0" **2**



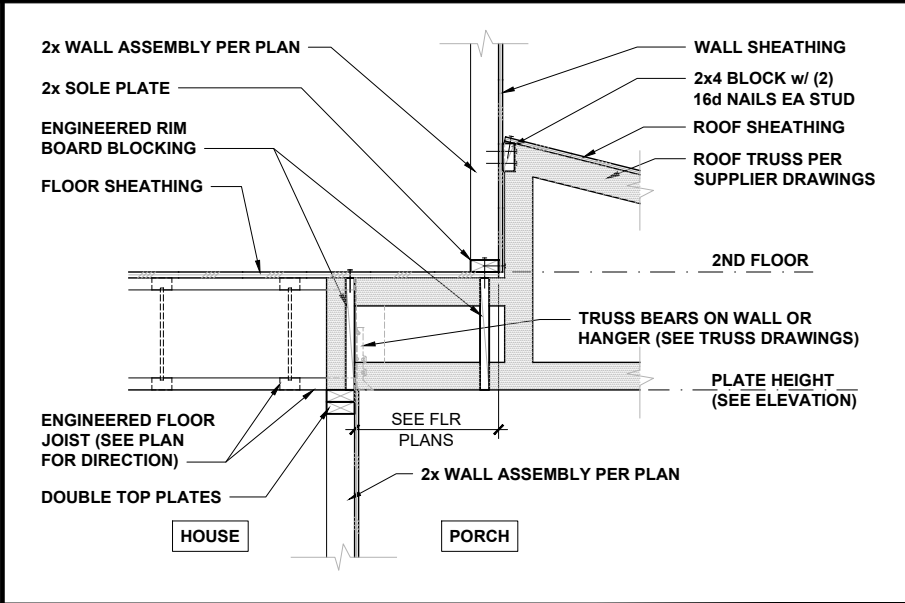
**HIGH-HEEL TRUSS AT BRACED WALL** 1/2" = 1'-0" **3**



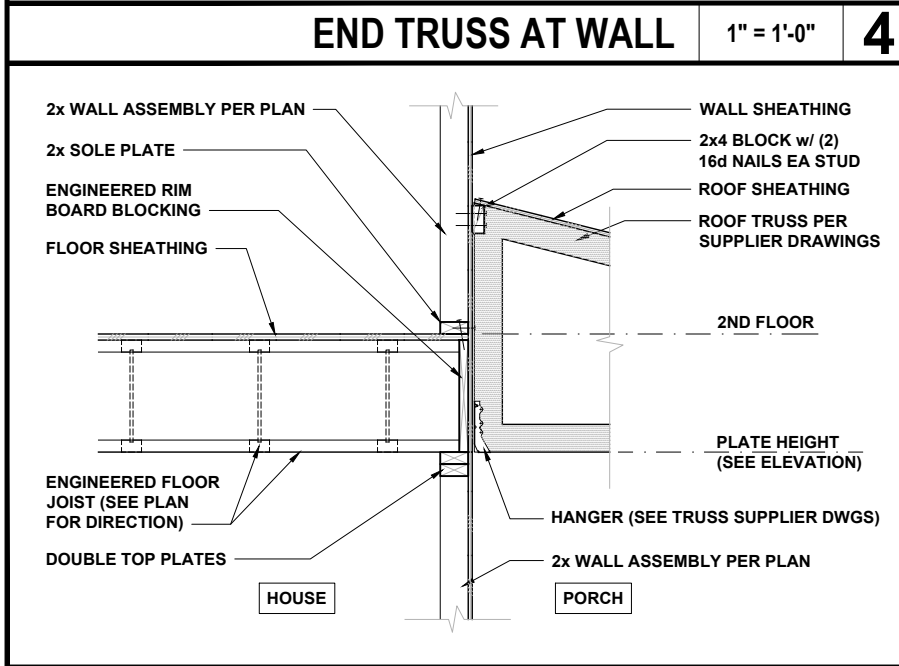
**END TRUSS AT WALL** 1" = 1'-0" **4**



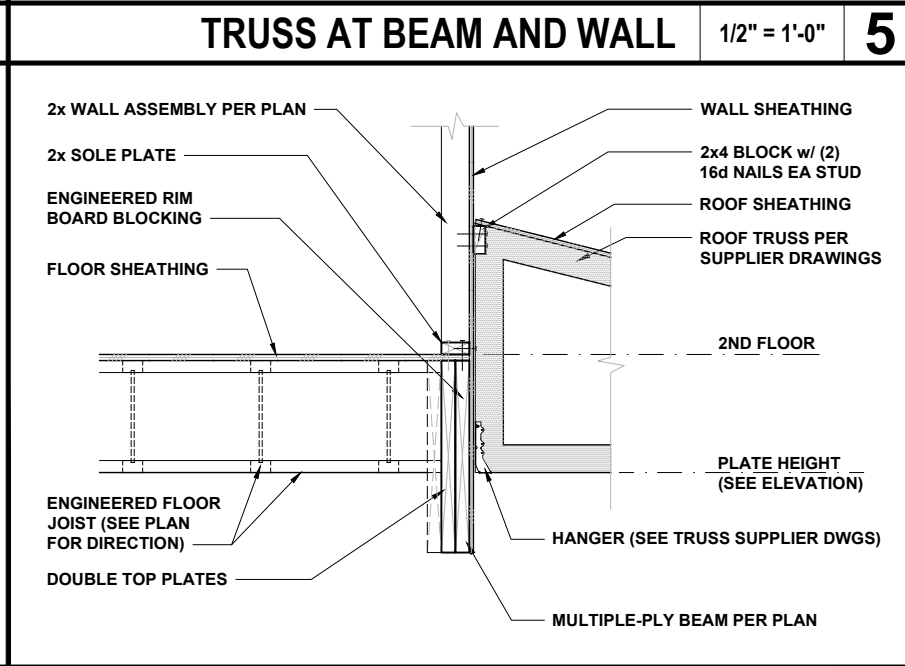
**TRUSS AT BEAM AND WALL** 1/2" = 1'-0" **5**



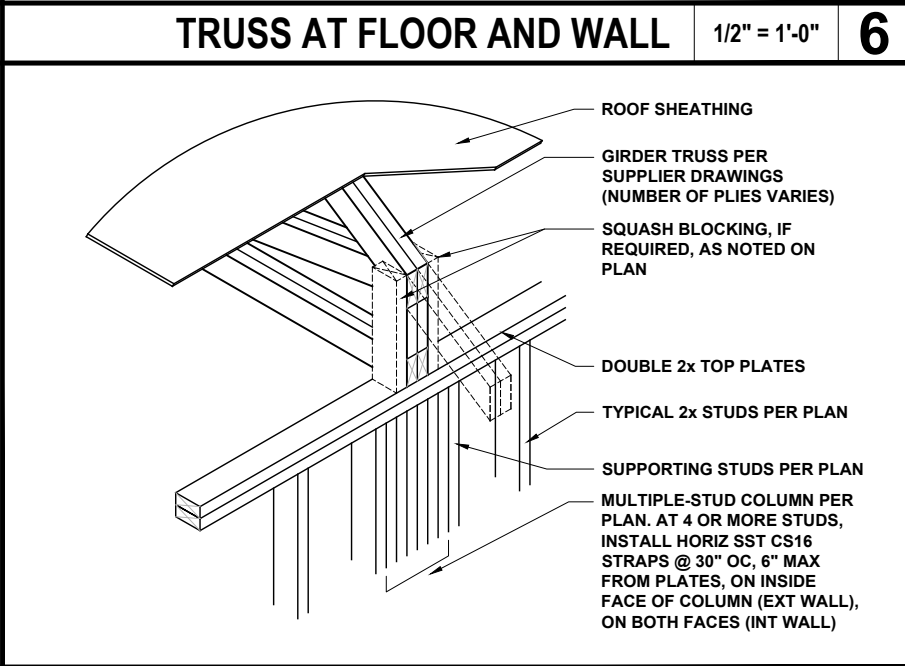
**TRUSS AT FLOOR AND WALL** 1/2" = 1'-0" **6**



**TRUSS AT FLOOR AND WALL** 1/2" = 1'-0" **7**



**TRUSS AT BEAM AND WALL** 1/2" = 1'-0" **8**



**GIRDER TRUSS AT WALL** 1/2" = 1'-0" **9**



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CLIENT: **MATTAMY HOMES**

PROJECT: **STANDARD DETAILS**

LOCATION: **NORTH CAROLINA**

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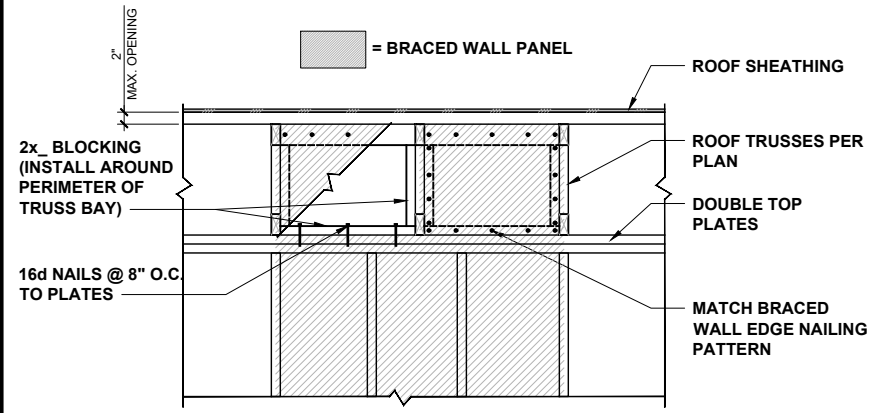


PROJECT NO.: **STANDARD DETAILS**

DATE: **04/27/2023** DRAWN BY: **CAR**

**ROOF TRUSS FRAMING DETAILS**

**DTRT**



**BWP CONNECTION TO ROOF FRAMING**    NTS    **10**



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|           |   |
|-----------|---|
| CLIENT:   | <b>MATTAMY HOMES</b>  |
| PROJECT:  | <b>STANDARD DETAILS</b>   |
| LOCATION: | <b>NORTH CAROLINA</b>   |
| SCALE:    | 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED |

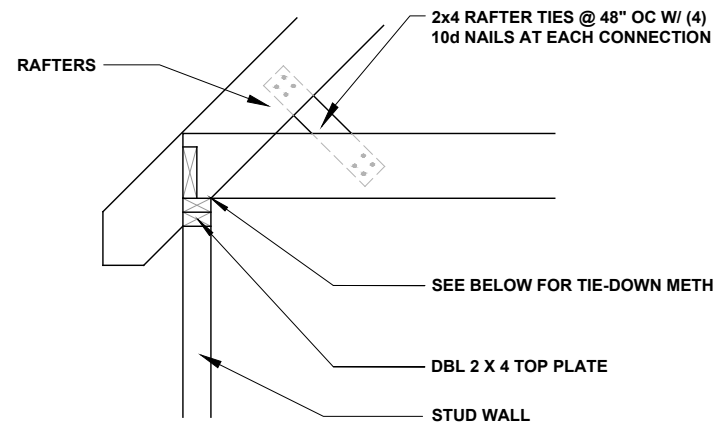


PROJECT NO.:  
**STANDARD DETAILS**

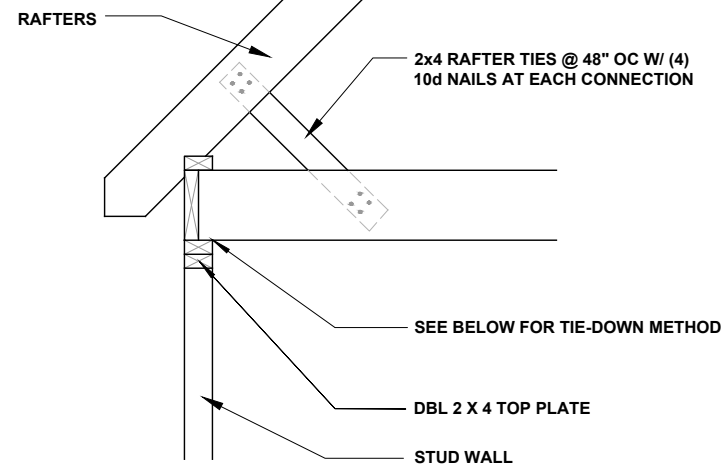
|                            |                         |
|----------------------------|-------------------------|
| DATE:<br><b>04/27/2023</b> | DRAWN BY:<br><b>CAR</b> |
|----------------------------|-------------------------|

ROOF TRUSS FRAMING  
DETAILS

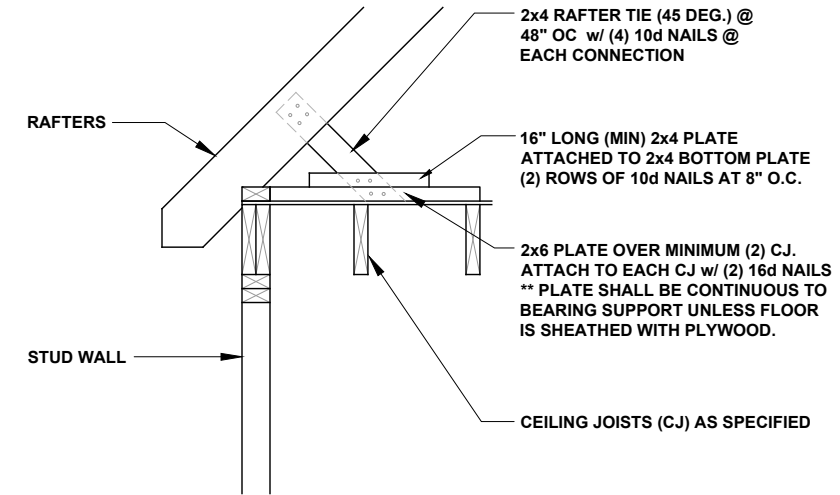
**DTRT2**



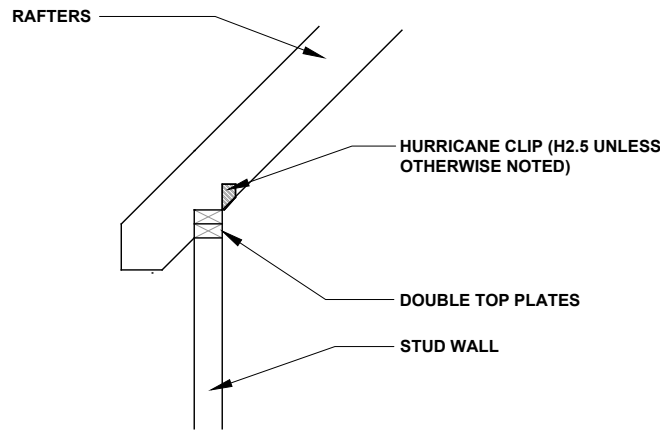
**RAFTER TIE** 1/2" = 1'-0" **1**



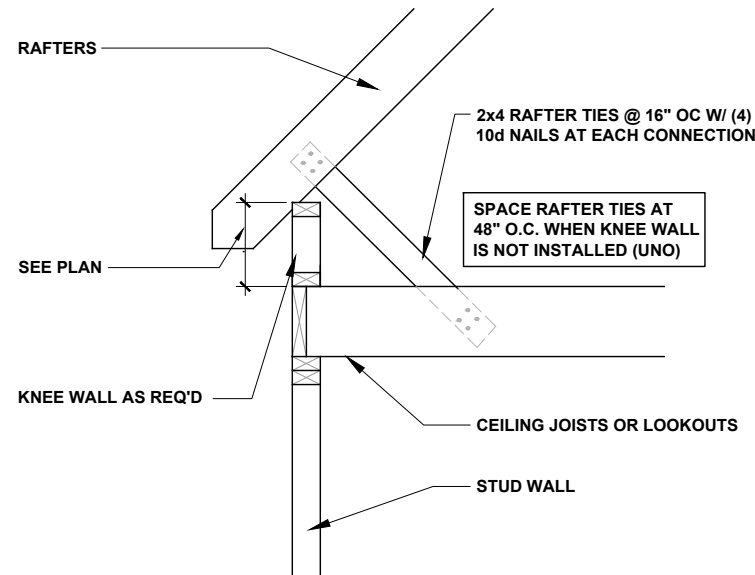
**RAFTER TIE** 1/2" = 1'-0" **2**



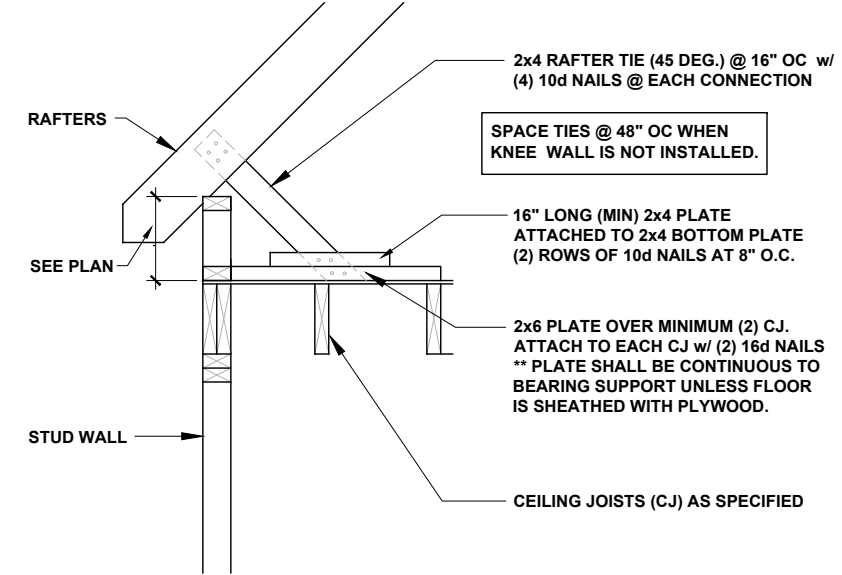
**RAFTER TIE** 1/2" = 1'-0" **3**



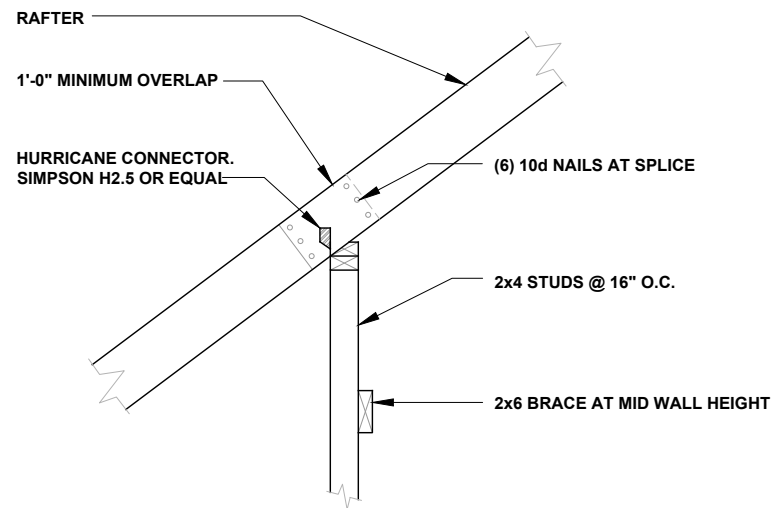
**RAFTER-TO-PLATES CONNECTION** 1/2" = 1'-0" **4**



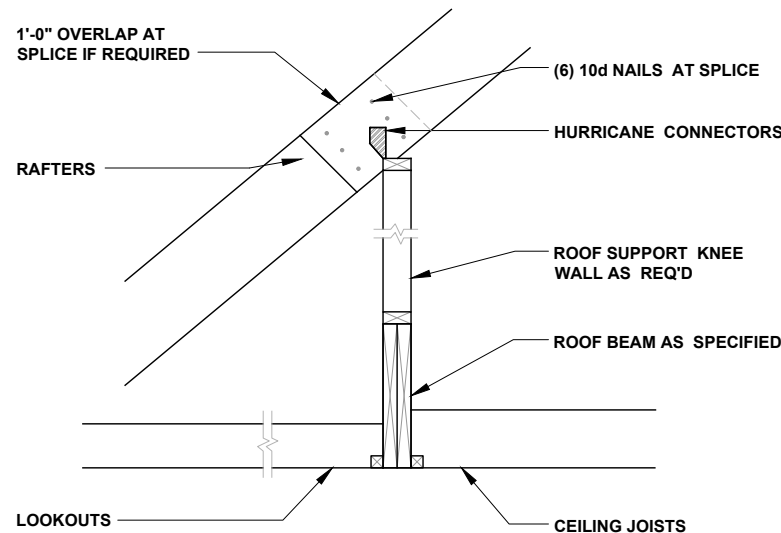
**RAFTER AT KNEE WALL** 1/2" = 1'-0" **5**



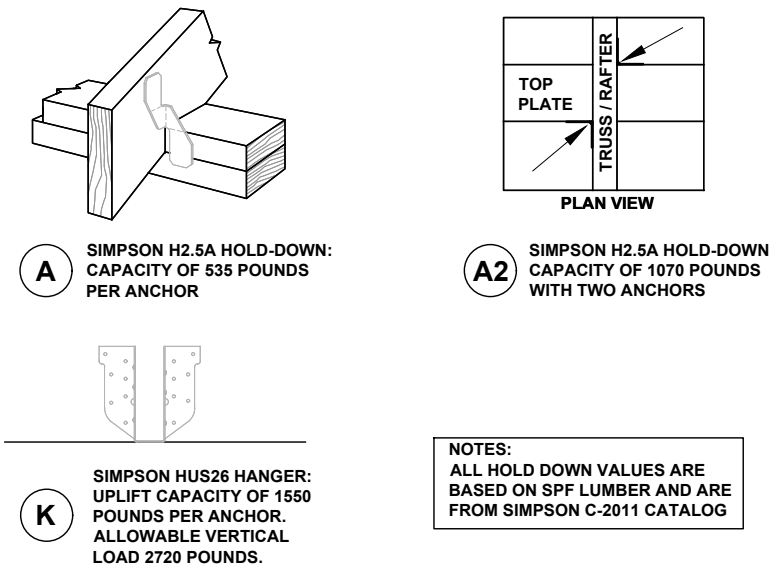
**RAFTER AT KNEE WALL** 1/2" = 1'-0" **6**



**RAFTER SPLICE AT BEARING WALL** 1/2" = 1'-0" **7**



**ROOF BEAM** 1/2" = 1'-0" **8**



**FRAMING CONNECTORS** NTS **9**



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LOCATION: **NORTH CAROLINA**

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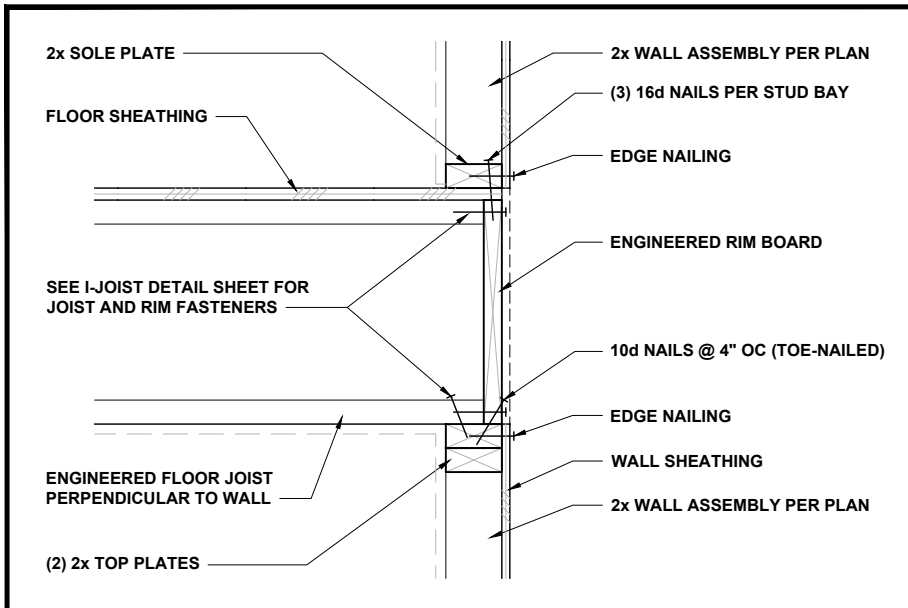


PROJECT NO.: **STANDARD DETAILS**

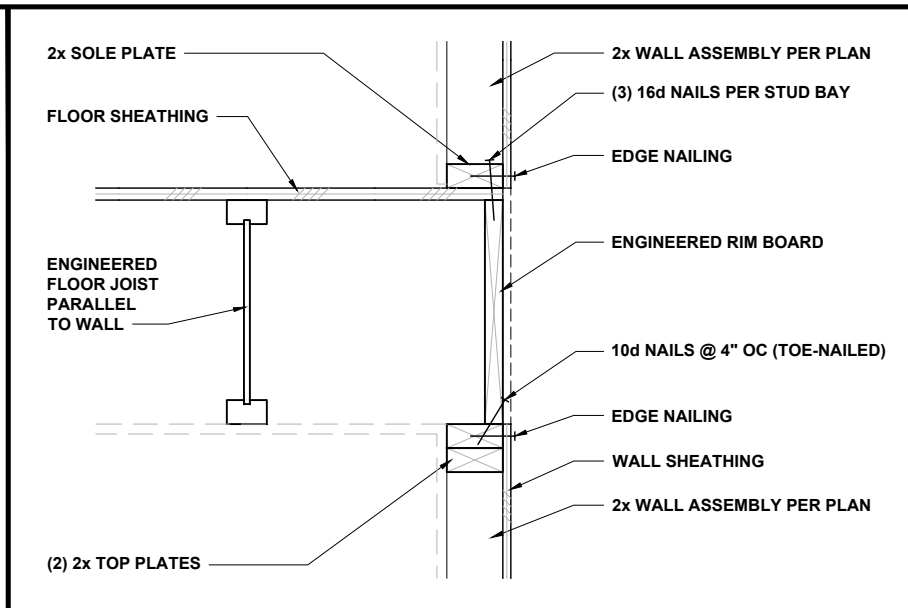
DATE: **04/27/2023** DRAWN BY: **CAR**

CONVENTIONAL FRAMING DETAILS

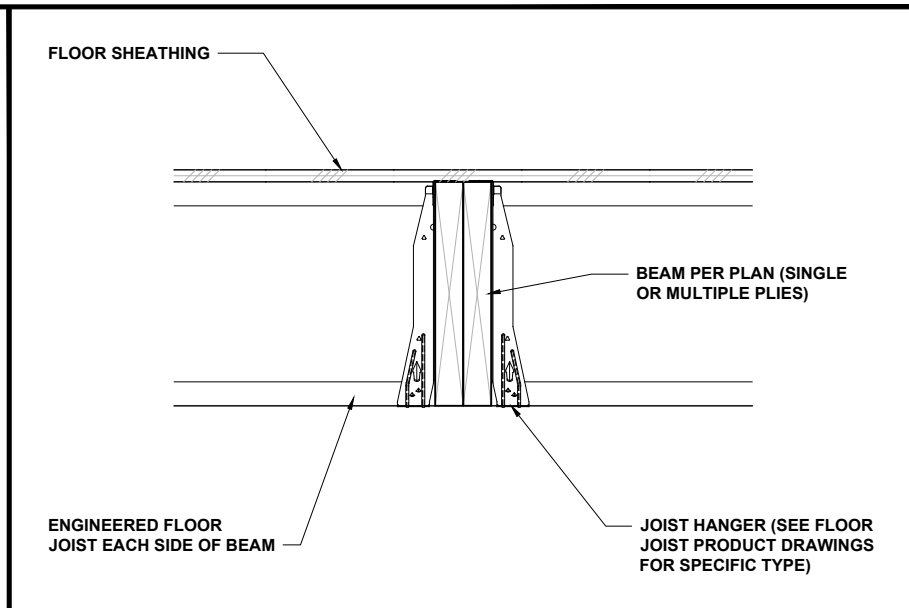
**DTRR**



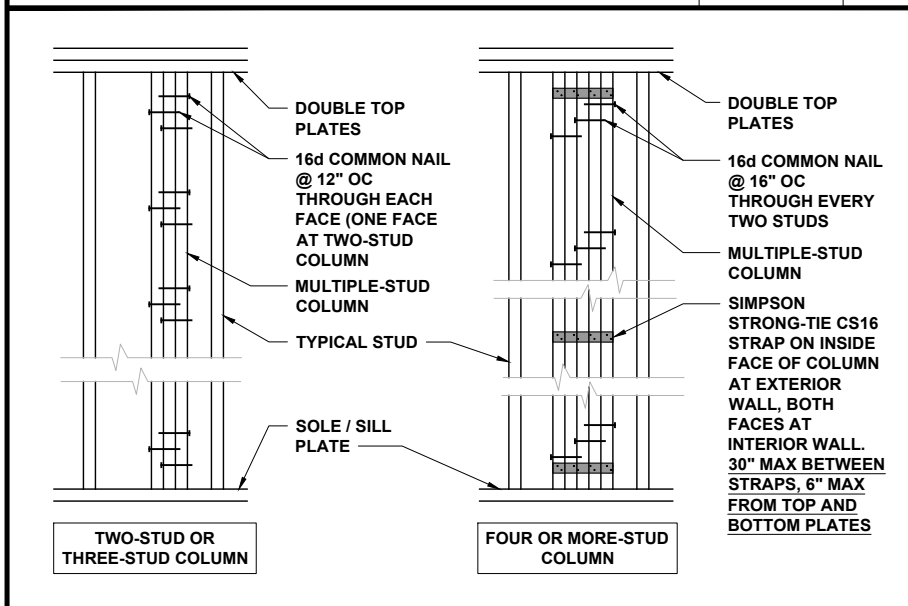
**FLOOR JOISTS PERP TO WALL** 1" = 1'-0" **1**



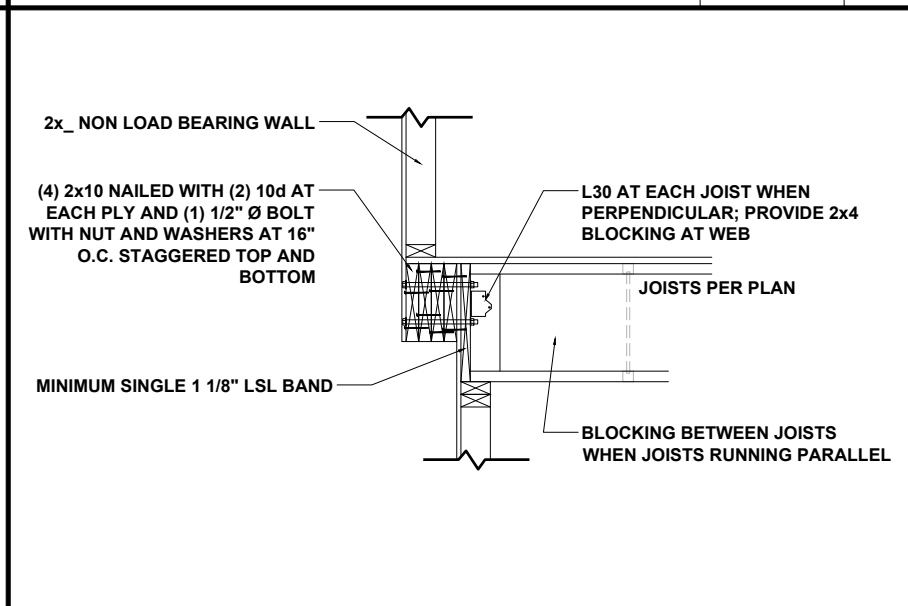
**FLOOR JOISTS PARALLEL TO WALL** 1" = 1'-0" **2**



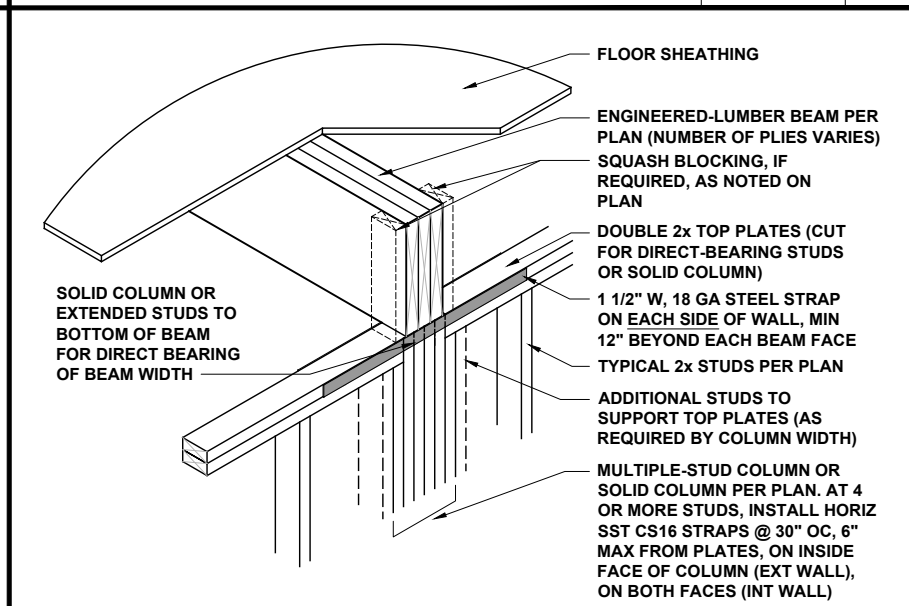
**FLOOR JOISTS AT FLUSH BEAM** 3/4" = 1'-0" **3**



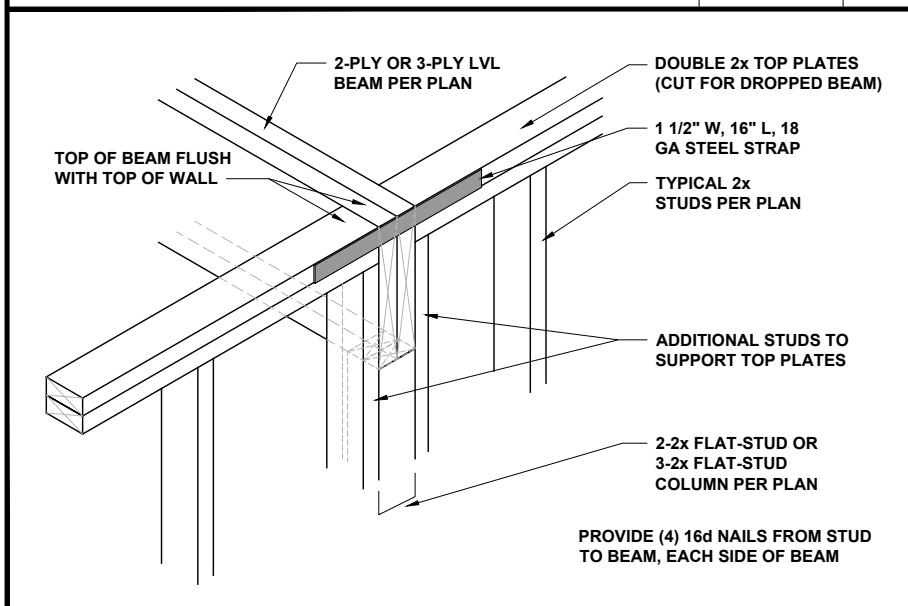
**MULTIPLE-STUD COLUMN FASTENING** 1/2" = 1'-0" **4**



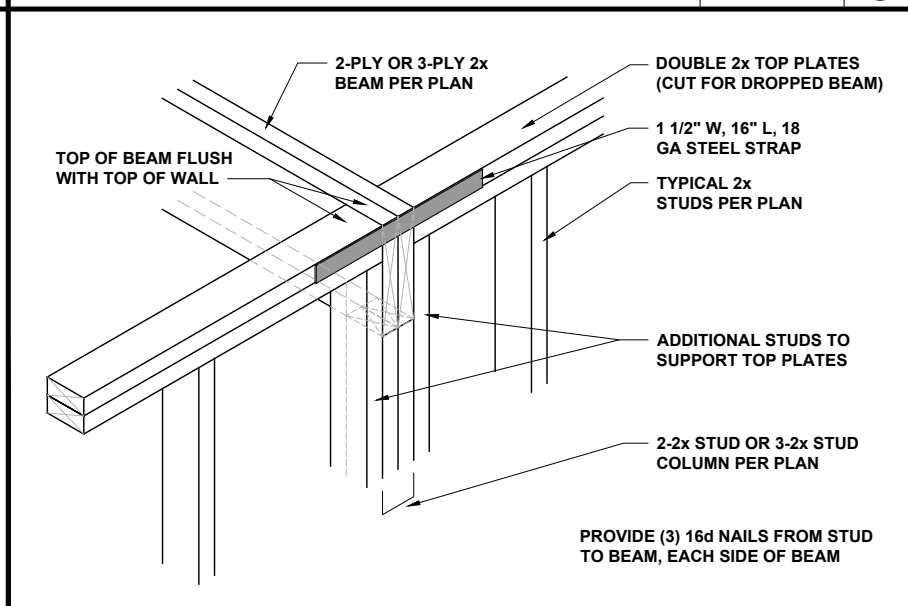
**6 IN. SIDE UPGRADE CONNECTION** 1/2" = 1'-0" **5**



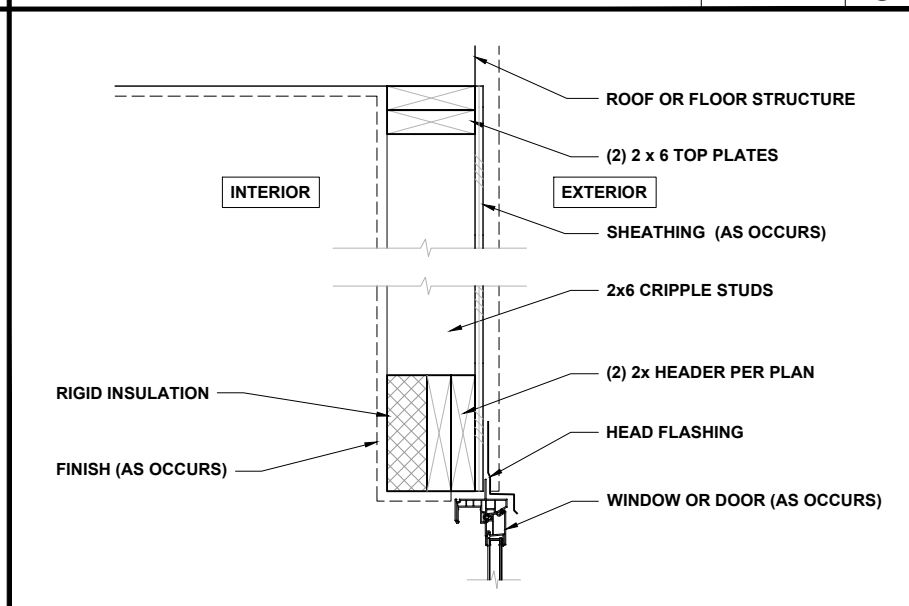
**FLUSH BEAM AT WALL** 1/2" = 1'-0" **6**



**DROPPED LVL BEAM AT WALL** 3/4" = 1'-0" **7**



**DROPPED 2x BEAM AT WALL** 3/4" = 1'-0" **8**



**HEADER WITH INSULATION** 1" = 1'-0" **9**



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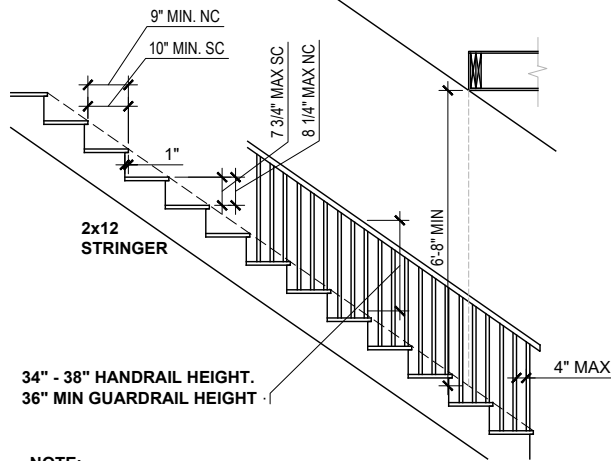


PROJECT NO.: **STANDARD DETAILS**

DATE: **04/27/2023** DRAWN BY: **CAR**

MISCELLANEOUS FRAMING DETAILS

**MISC1**

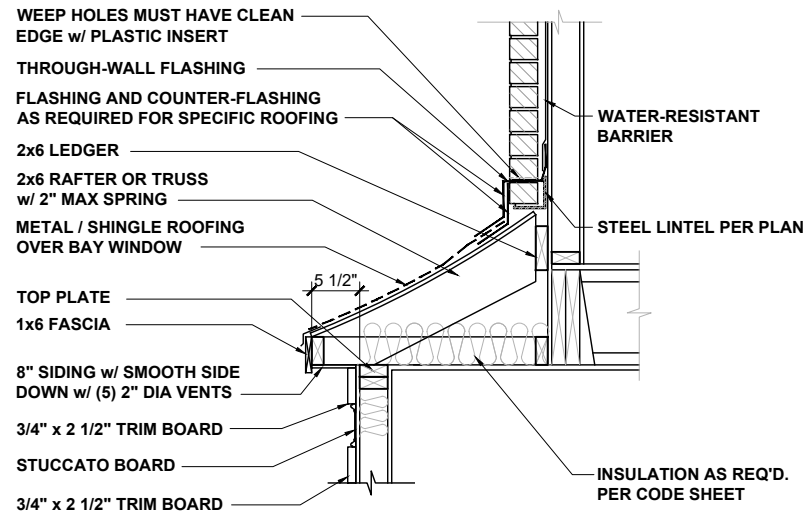


NOTE:  
EACH TREAD AND RISER MUST BE UNIFORM,  
WITH NO MORE THAN 3/8" MAXIMUM VARIATION.

**TYPICAL STAIR REQUIREMENTS**

1/4" = 1'-0"

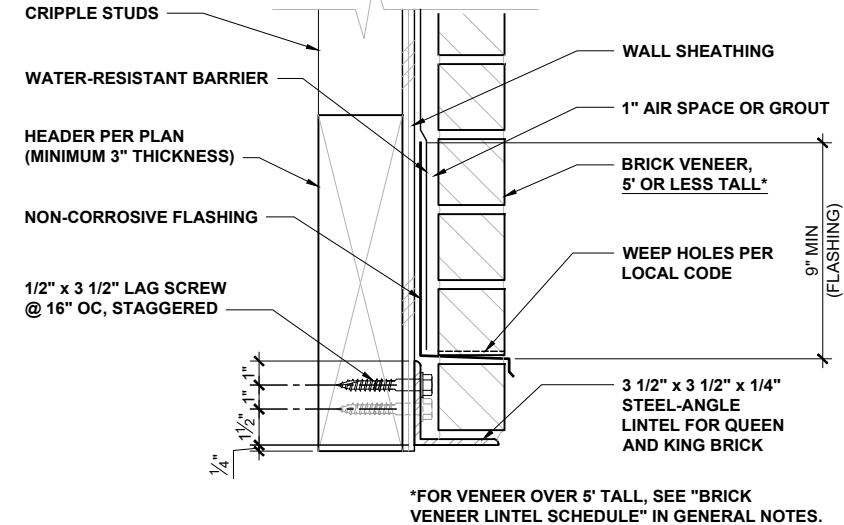
**1**



**BAY ROOF**

1/2" = 1'-0"

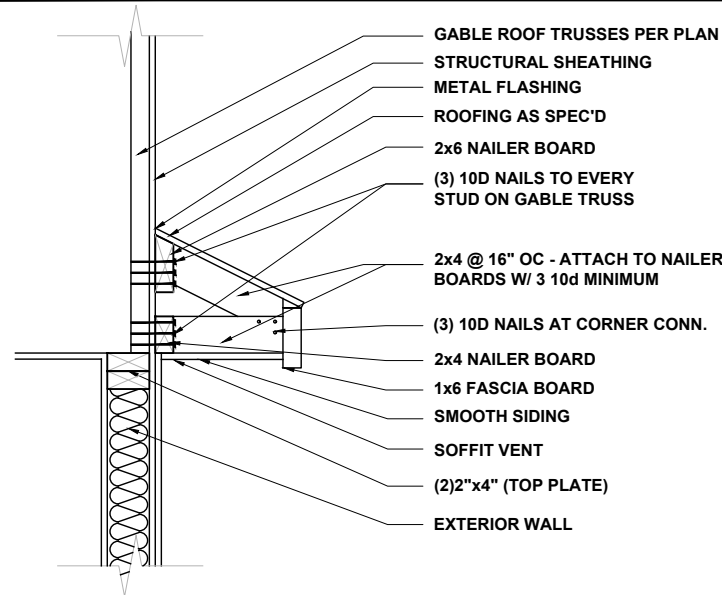
**2**



**ALTERNATE LINTEL AT WIDE OPENING**

1 1/2" = 1'-0"

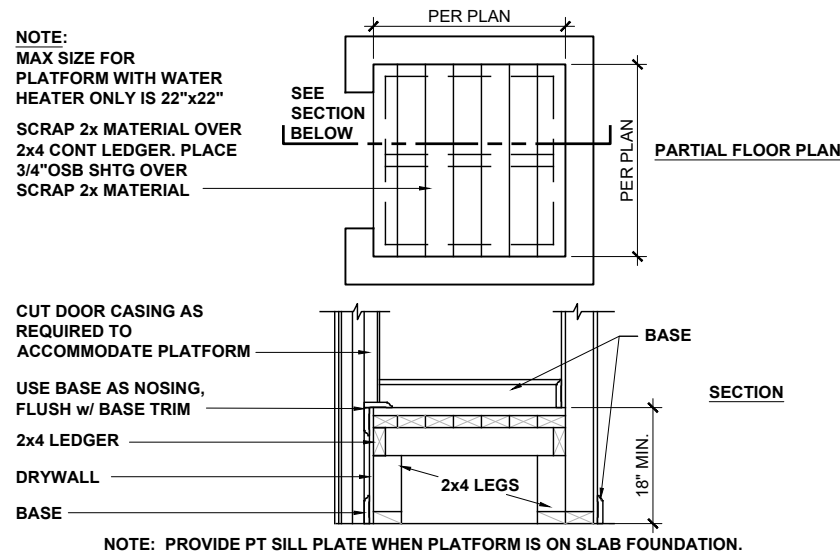
**3**



**GABLE ROOF RETURN**

3/4" = 1'-0"

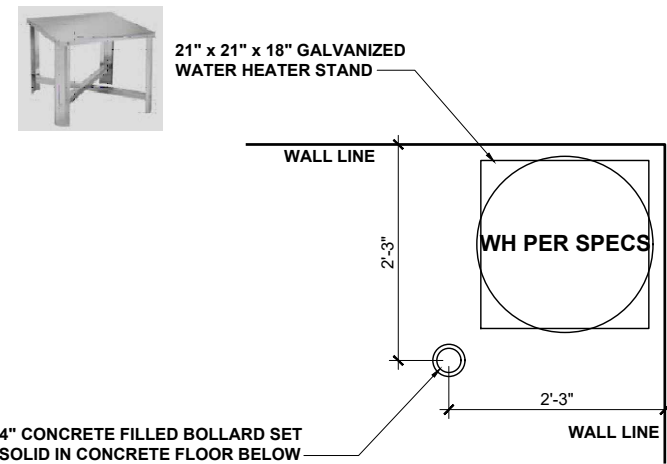
**4**



**HVAC / WATER HEATER CLOSET**

1/2" = 1'-0"

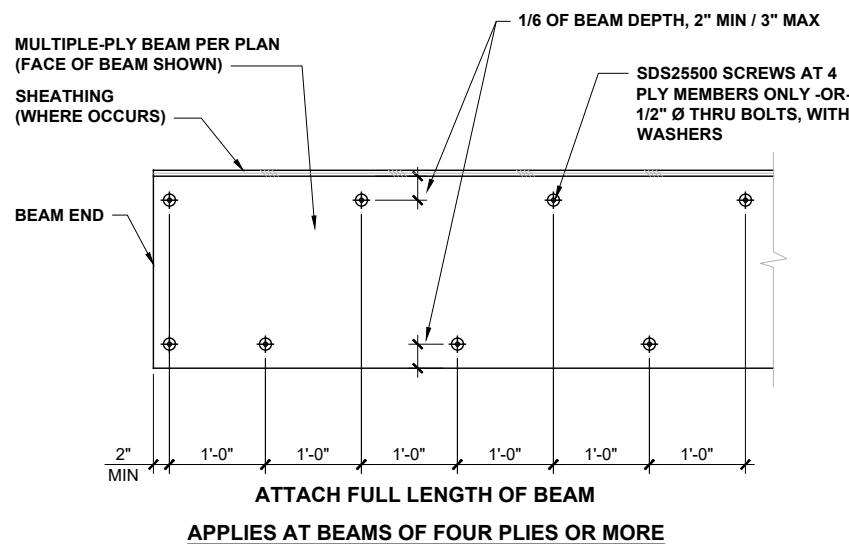
**5**



**WATER HTR PLATFORM IN GARAGE**

1/2" = 1'-0"

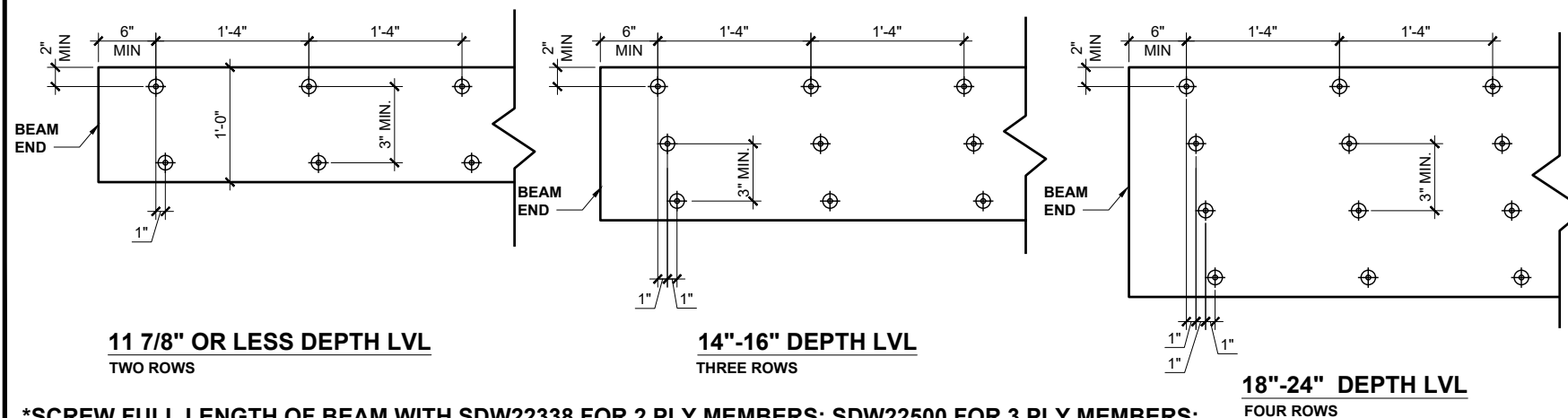
**6**



**2x BEAM ATTACHMENT**

1/2" = 1'-0"

**7**



**LVL BEAM SCREW ATTACHMENT METHODS**

NTS

**8**

\*SCREW FULL LENGTH OF BEAM WITH SDW22338 FOR 2 PLY MEMBERS; SDW22500 FOR 3 PLY MEMBERS; SDW22634 OR TRUSSLOK EWS670-F6.7 SCREWS FOR 4 PLY MEMBERS  
\*\*SCREWS ARE TO BE INSTALLED FROM THE SIDE THAT IS CARRYING THE GREATER SPAN OF LOAD FROM ADJACENT STRUCTURE, OR AS CALLED OUT ON THE PLAN AT THE BEAM.



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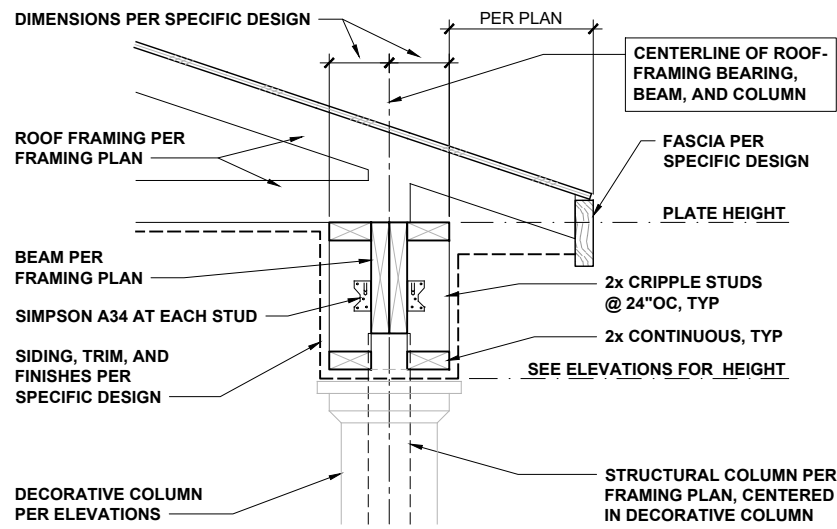


PROJECT NO.: **STANDARD DETAILS**

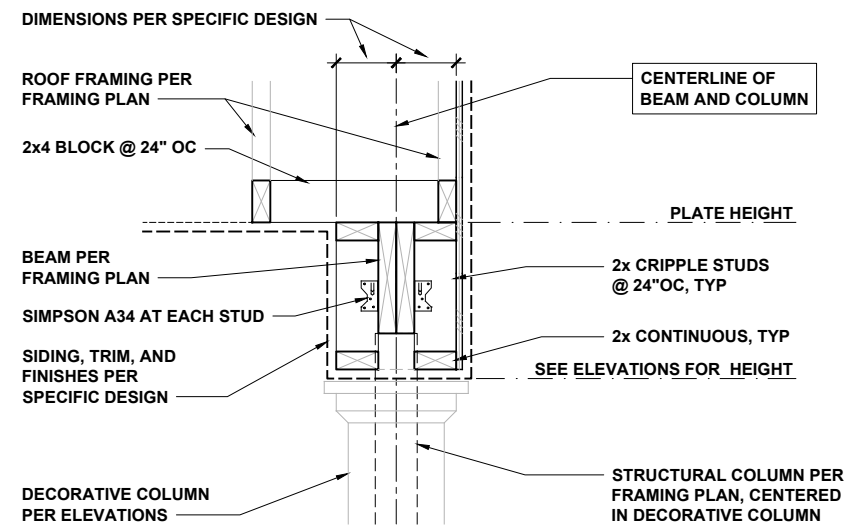
DATE: **04/27/2023** DRAWN BY: **CAR**

MISCELLANEOUS FRAMING DETAILS

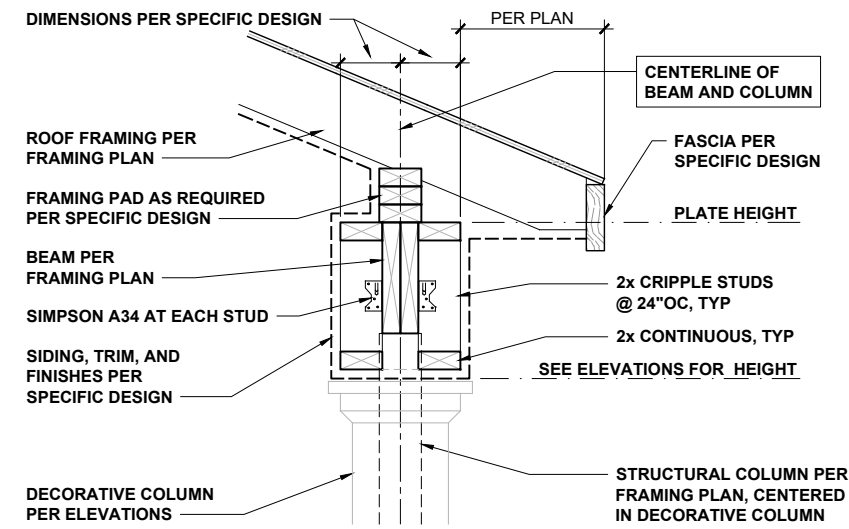
**MISC2**



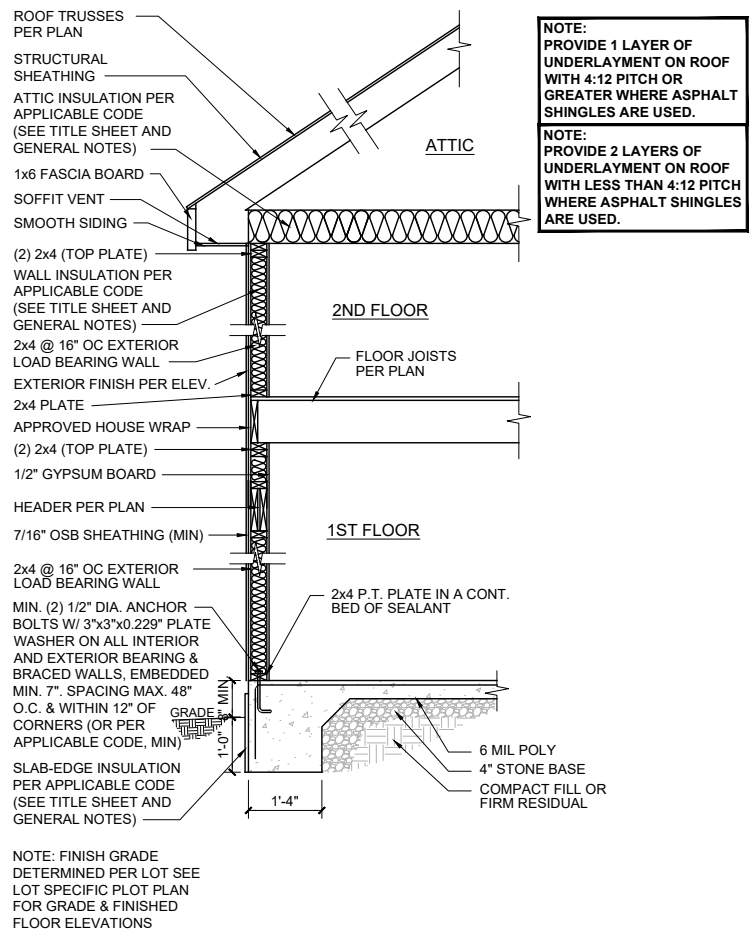
**COVERED PORCH EAVES** 3/4" = 1'-0" **1**



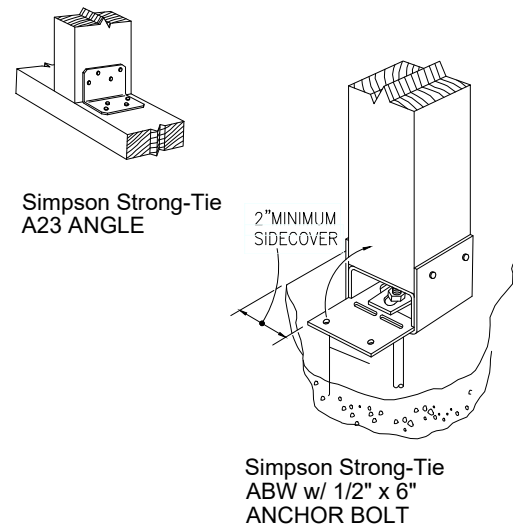
**COVERED PORCH RAKE** 3/4" = 1'-0" **2**



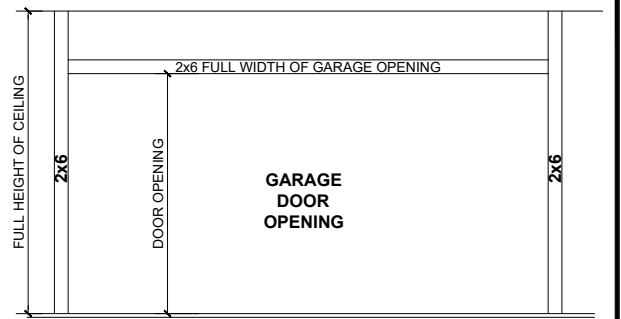
**COVERED PORCH WITH SLOPING CLG** 3/4" = 1'-0" **3**



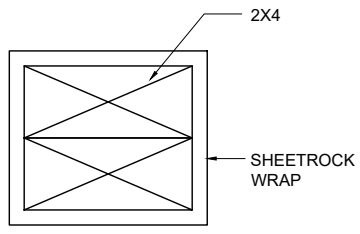
**TWO-STORY ON SLAB** NTS **4**



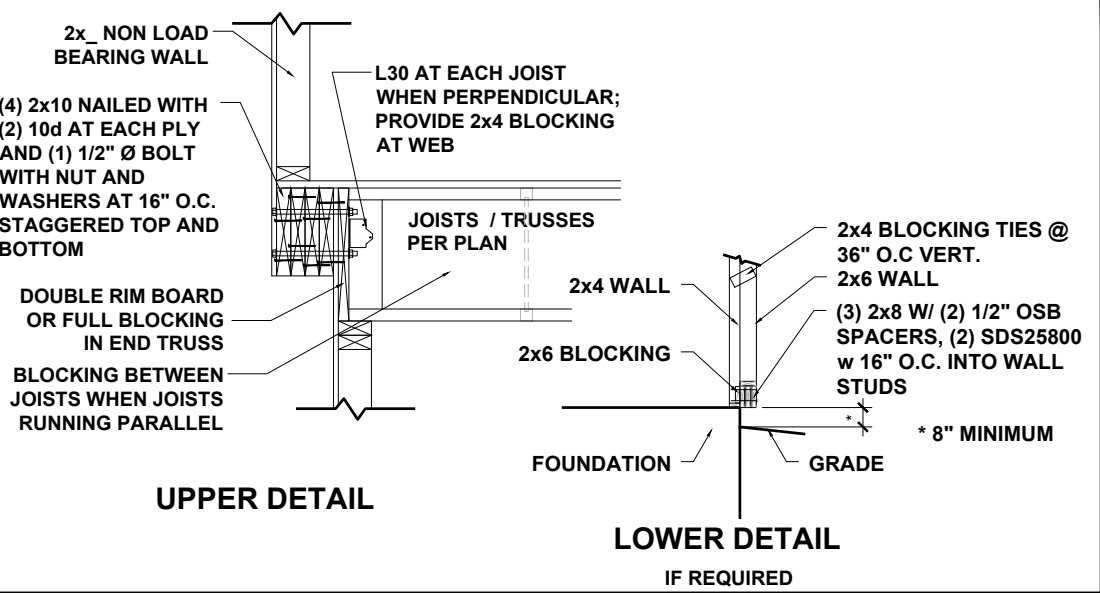
**DK POST HOLD-DOWN** NTS **5**



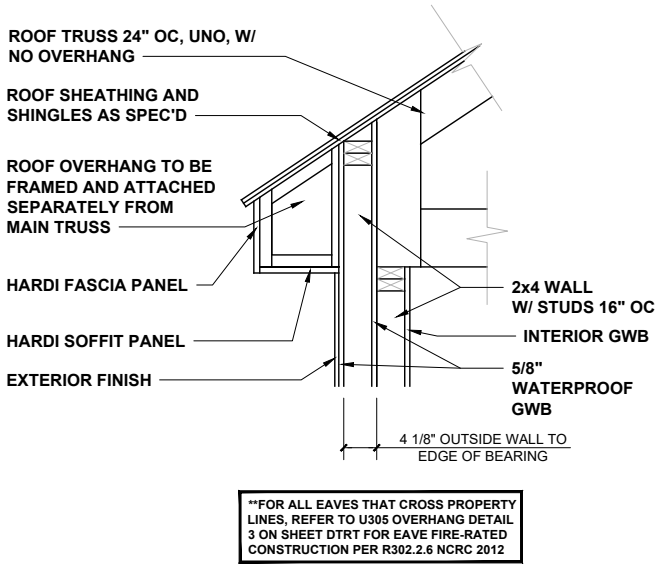
**GOAL-POST FRAMING** NTS **6**



**INTERIOR COL.** 3" = 1'-0" **7**



**6" ENHANCED SIDE BOXOUT DETAILS** 1/2" = 1'-0" **8**



**U305 SEC. AT OVERHANG** 1/2" = 1'-0" **9**



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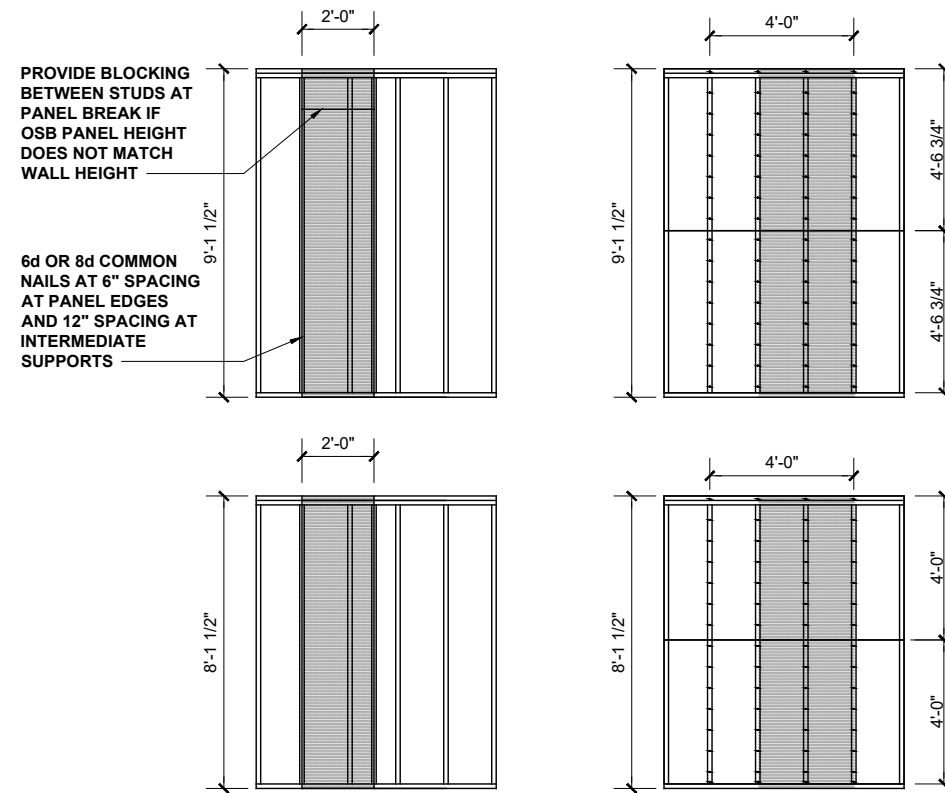
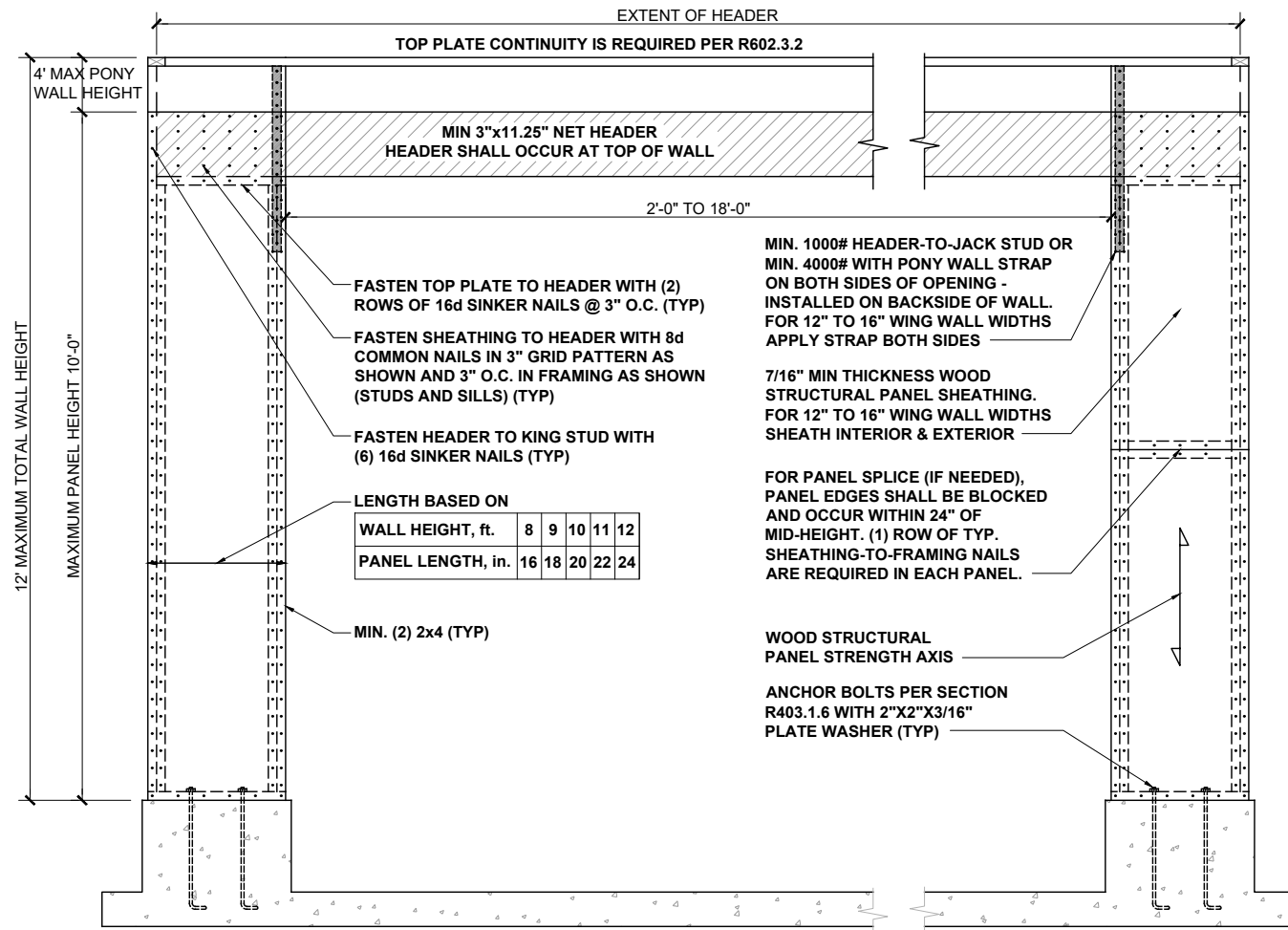
PROJECT NO.: **STANDARD DETAILS**

DATE: **04/27/2023** DRAWN BY: **CAR**

MISCELLANEOUS FRAMING DETAILS

**MISC3**





**CS-WSP - WOOD STRUCTURAL PANEL (CONTINUOUSLY SHEATHED)**

BRACED WALL PANEL 7/16" MIN. OSB SHEATHING ON ONE SIDE OF WALL. MINIMUM PANEL LENGTH 24".

**GB - GYPSUM BOARD**

BRACED WALL PANEL 1/2" GYPSUM BOARD NAILED TO STUDS AT 7" O.C. USING 5d COOLER NAILS OR #6 SCREWS. MINIMUM PANEL LENGTH 48" WHEN APPLIED TO BOTH SIDES OF WALL AND 96" WHEN APPLIED TO ONE SIDE OF WALL.

**HIGH-SPEED WIND ZONES**

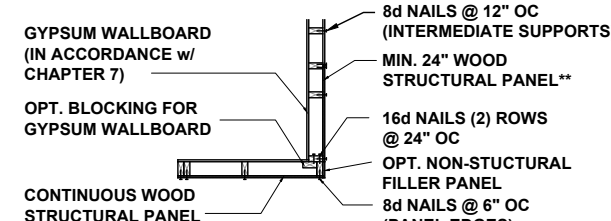
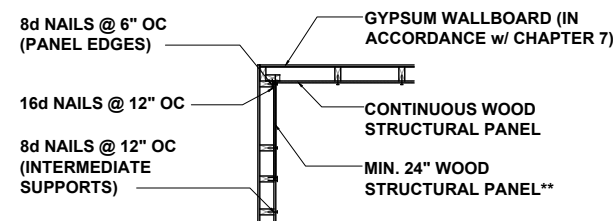
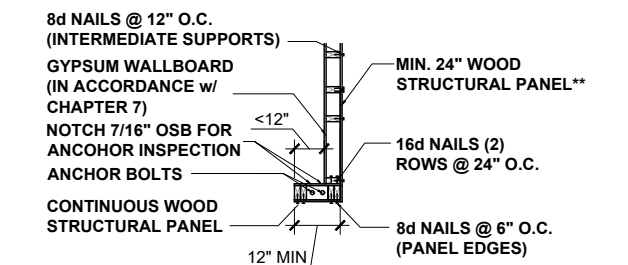
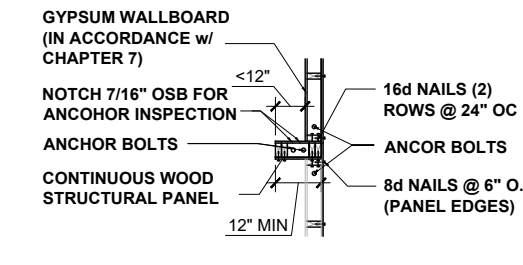
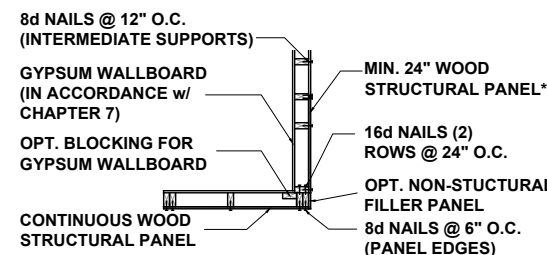
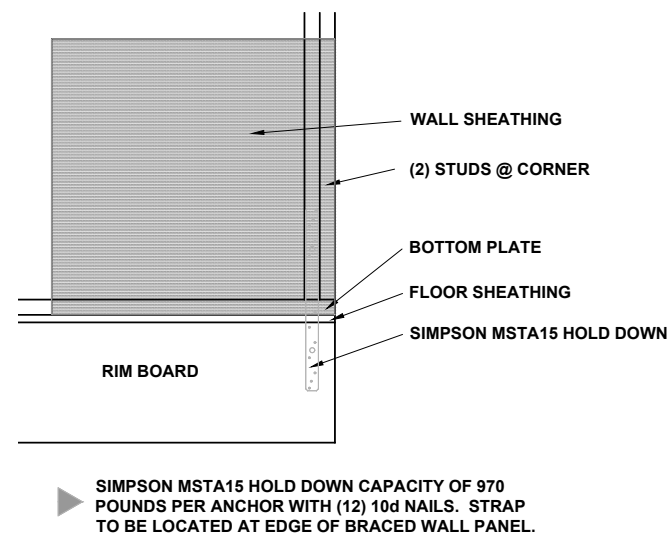
FOR LOCATIONS OF 130 MPH OR MORE ULTIMATE DESIGN WIND SPEED (110 MPH OR MORE BASIC WIND SPEED IN VIRGINIA AND GEORGIA), WALLS SHALL BE BRACED PER THE LATEST ADOPTED EDITION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS PUBLICATION ASCE 7 OR STANDARD FOR RESIDENTIAL CONSTRUCTION IN HIGH-WIND REGIONS (ICC 600).

**METHOD PF: PORTAL FRAME PANEL CONSTRUCTION**

3/8" = 1'-0" **1**

**BRACING METHODS**

3/16" = 1'-0" **2**



\*\* IN LIEU OF THE CORNER RETURN, A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE CORNER STUD AND TO THE FOUNDATION OR FRAMING BELOW.

**BRACED WALL HOLD-DOWN**

NTS **3**

**CORNER FRAMING FOR CONTINUOUS SHEATHING**

1/4" = 1'-0" **4**



P-0961

**JDS Consulting**  
ENGINEERING • DESIGN • ENERGY

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CLIENT: **MATTAMY HOMES**  
PROJECT: **STANDARD DETAILS**  
LOCATION: **NORTH CAROLINA**

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

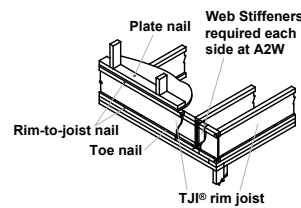
**mattamyHOMES**

PROJECT NO.: **STANDARD DETAILS**  
DATE: **04/27/2023** DRAWN BY: **CAR**

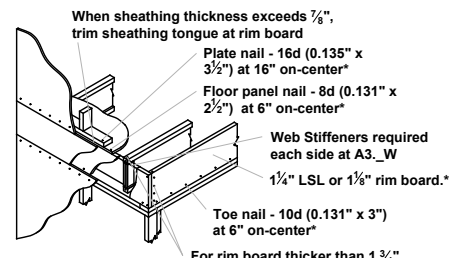
WALL BRACING DETAILS

**DTWB**

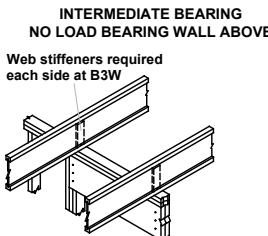
# JOIST DETAILS



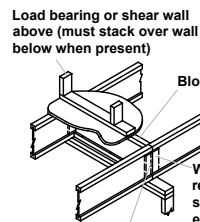
**A2 | A2W** Must have 1/4" minimum joist bearing at ends. Attach rim joist per A3 detail.



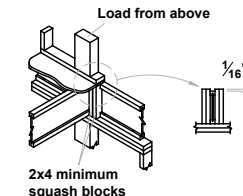
**A3 | A3W** For rim board thicker than 1 3/4" - Attach Joist to rim board with one 10d (0.128"x3") nail. Top nail from joist into rim board. - Connect corner with four 10d (0.128"x3") nails. Toe nail from side of parallel closure into rim board



**B3 | B3W** Blocking panels may be required with shear walls above or below (See detail B1)

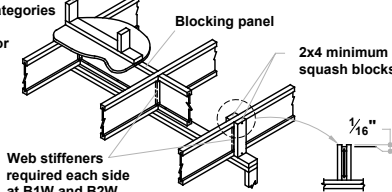


**B4 | B4W** End of joists at centerline of support

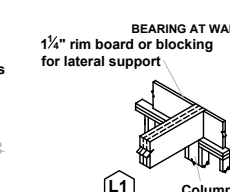


**CS** Use 2x4 minimum squash blocks to transfer load around joist

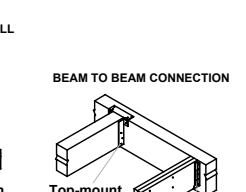
# BEAM and COLUMN DETAILS



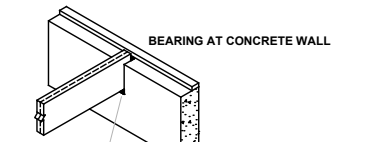
**B1 | B1W** Blocking panels may be required with shear walls above or below - see detail B1



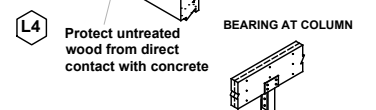
**L1** Column



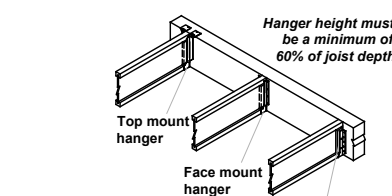
**L3** BEAM TO BEAM CONNECTION



**L4** Protect untreated wood from direct contact with concrete



**L5** Verify column capacity and beam bearing length.



**H1** Web stiffeners required if sides of hanger do not laterally support at least 3/8" of joist top flange

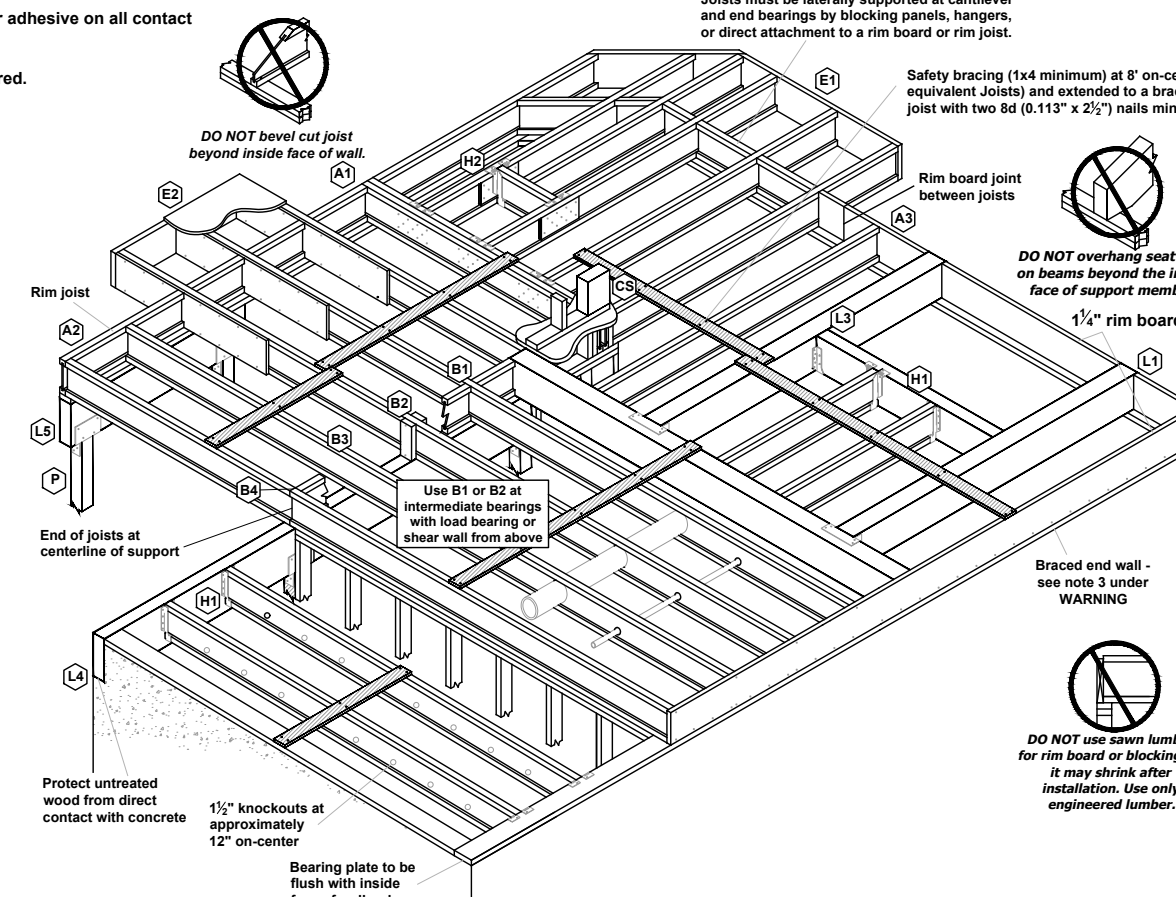
## FASTENING of FLOOR PANELS

Guidelines for Closest On-Center Spacing per Row

| Nail Size                                | I-JOIST *             |                 | Rim Board  | 1 1/2" LSL or wider | LVL | PSL |
|--|-----------------------|-----------------|------------|---------------------|-----|-----|
|  | 110, 210, and 230 EQ. | 360 and 560 EQ. | 1 1/4" LSL |                     |     |     |
| 8d (0.131" x 2 1/2")                     | 4"                    | 3"              | 4"         | 3"                  | 3"  | 3"  |
| 10d (0.148" x 3"), 12d (0.148" x 3 1/4") | 4"                    | 4"              | 4"         | 4"                  | 4"  | 4"  |
| 16d (0.162" x 3 1/2")                    | 6"                    | 6"              | 6" (2)     | 6" (2)              | 8"  | 6"  |

- (1) One row of fasteners permitted (two at abutting panel edges) for diaphragms. Stagger nails when using 4" on-center spacing and maintain 3/8" joist and panel edge distance. For other applications, multiple rows of fasteners are permitted if the rows are offset at least 1/2" and staggered.
- (2) Can be reduced to 4" on-center if nail penetration into the narrow edge is no more than 1 3/8" (to avoid splitting).

- Recommended nailing is 12" on-center in field and 6" on-center along panel edge. Fastening requirements on engineered drawings supersede recommendations listed above.
- Recommended use of a non-polyurethane subfloor adhesive on all contact points between panels and floor framing.
- Nailing rows must be offset at least 1/2" and staggered.
- 14 ga. staples may be substituted for 8d (0.113" x 2 1/2") nails if minimum penetration of 1" into the joist or rim board is achieved.
- Maximum spacing of nails is 18" on-center for joists.



## FILLER and BACKER BLOCK SIZES

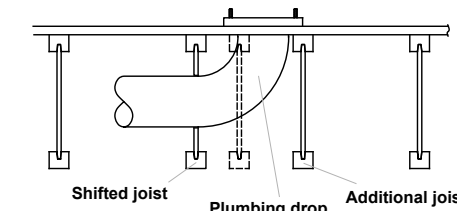
| I-Joists                           | 110 EQ. *         |              | 210 EQ. *            |                       | 230 or 360 EQ. *     |                       |                       | 560 EQ. *      |                |                |
|------------------------------------|-------------------|--------------|----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------|----------------|----------------|
|                                    | 9 1/2" or 11 1/8" | 14"          | 9 1/2" or 11 1/8"    | 14" or 16"            | 9 1/2" or 11 1/8"    | 14" or 16"            | 18" or 20"            | 11 1/8"        | 14" or 16"     | 18" or 20"     |
| Depth                              | 9 1/2" or 11 1/8" | 14"          | 9 1/2" or 11 1/8"    | 14" or 16"            | 9 1/2" or 11 1/8"    | 14" or 16"            | 18" or 20"            | 11 1/8"        | 14" or 16"     | 18" or 20"     |
| Filler Block (1) (Detail H2)       | 2x6               | 2x8          | 2x6 + 3/8" sheathing | 2x8 + 3/8" sheathing  | 2x6 + 1/2" sheathing | 2x8 + 1/2" sheathing  | 2x12 + 1/2" sheathing | Two 2x6        | Two 2x8        | Two 2x12       |
| Cantilever Filler (Detail E4)      | 2x6               | 2x10         | 2x6 + 3/8" sheathing | 2x10 + 3/8" sheathing | 2x6 + 1/2" sheathing | 2x10 + 1/2" sheathing | Not applicable        | Not applicable | Not applicable | Not applicable |
| Backer Block (1) (Detail F1 or H2) | 5/8" or 3/4"      | 3/4" or 7/8" | 3/4" or 7/8"         | 1" Net                | 1" Net               | 1" Net                | 1" Net                | 2x6            | 2x8            | 2x12           |

(1) If necessary, increase filler and backer block height for face mount hangers and maintain 1/8" gap at top of joist; see detail W. Filler and backer block lengths should accommodate required nailing without splitting (12" minimum for backer blocks and 24" minimum for filler blocks).

Joists must be laterally supported at cantilever and end bearings by blocking panels, hangers, or direct attachment to a rim board or rim joist.

# INSTALLATION TIPS

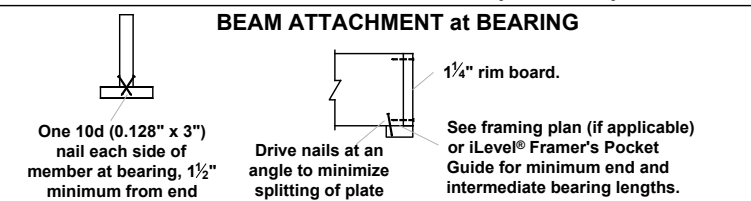
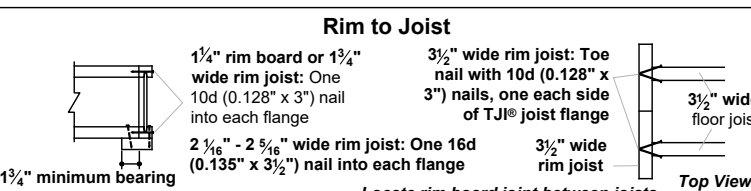
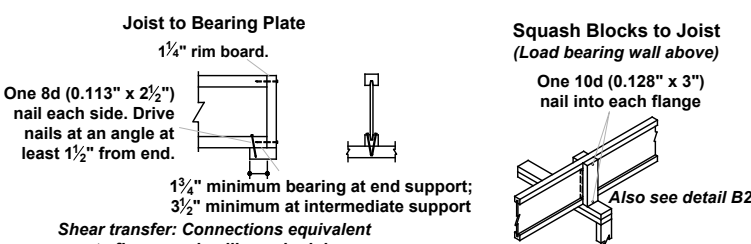
- Subfloor adhesive will improve floor performance, but may not be required.
- Squash blocks and blocking panels carry stacked vertical loads (details B1 and B2). Packing out the web of a joist (with web stiffeners) is not a substitute for squash blocks or blocking panels.
- When joists are doubled at non-load bearing parallel partitions, space joists apart the width of the wall for plumbing or HVAC.
- Additional joist at plumbing drop (see detail).



## \* I-JOIST EQUIVALENCY CHART

| Depth   | EQUIVALENT IN SPAN AND SPACING |               |                |
|---------|--------------------------------|---------------|----------------|
|         | Mfrt & Series                  | Mfrt & Series | Mfrt & Series  |
| 9 1/4"  | TJI - 110                      | BCI 4500      |                |
|         | TJI - 210                      | BCI 5000      | EverEdge 20    |
|         | TJI - 230                      | BCI 6000      | BCI 6500       |
| 11 7/8" | TJI - 110                      | BCI 4500      |                |
|         | TJI - 210                      | BCI 5000      | EverEdge 20    |
|         | TJI - 230                      | BCI 6000      | BCI 6500       |
| 14"     | TJI - 360                      | BCI 60'S      | EverEdge 30    |
|         | TJI - 560                      | BCI 90'S      | EverEdge 50/60 |
|         | TJI - 110                      | BCI 4500      |                |
| 16"     | TJI - 210                      | BCI 5000      | EverEdge 20    |
|         | TJI - 230                      | BCI 6000      | BCI 6500       |
|         | TJI - 360                      | BCI 60'S      | EverEdge 30    |
| 16"     | TJI - 560                      | BCI 90'S      | EverEdge 50/60 |
|         | TJI - 110                      | BCI 4500      |                |
|         | TJI - 210                      | BCI 5000      | EverEdge 20    |
| 16"     | TJI - 230                      | BCI 6000      | BCI 6500       |
|         | TJI - 360                      | BCI 60'S      | EverEdge 30    |
|         | TJI - 560                      | BCI 90'S      | EverEdge 50/60 |

## JOIST NAILING REQUIREMENTS at BEARING



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**mattamyHOMES**

PROJECT NO.: **STANDARD DETAILS**

DATE: **04/27/2023** DRAWN BY: **CAR**

ENGINEERED JOIST DETAILS

**DTIJ**