TOWNSEND-RALE



RALEIGH- LOT 00.0101 BLAKE POND

Sales center only

(MODEL# 3501) ELEVATION 4 - GR

HOMES

AREA CALCULATIONS				
			COVERED /	
ELEVATION 4		HEATED	UNHEATED	UNCOVERED
FIRST FLOOR		1588 SF		
GARAGE			439 SF	
FRONT PORCH — ELEVATION 4			116 SF	
SECOND FLOOR		1913 SF		
OPTIONS				
REAR PORCH			400.05	
REAR PURCH			462 SF	
	TOTAL	3501 SF	1017 SF	
	TOTAL	0001 31	1017 31	
				l

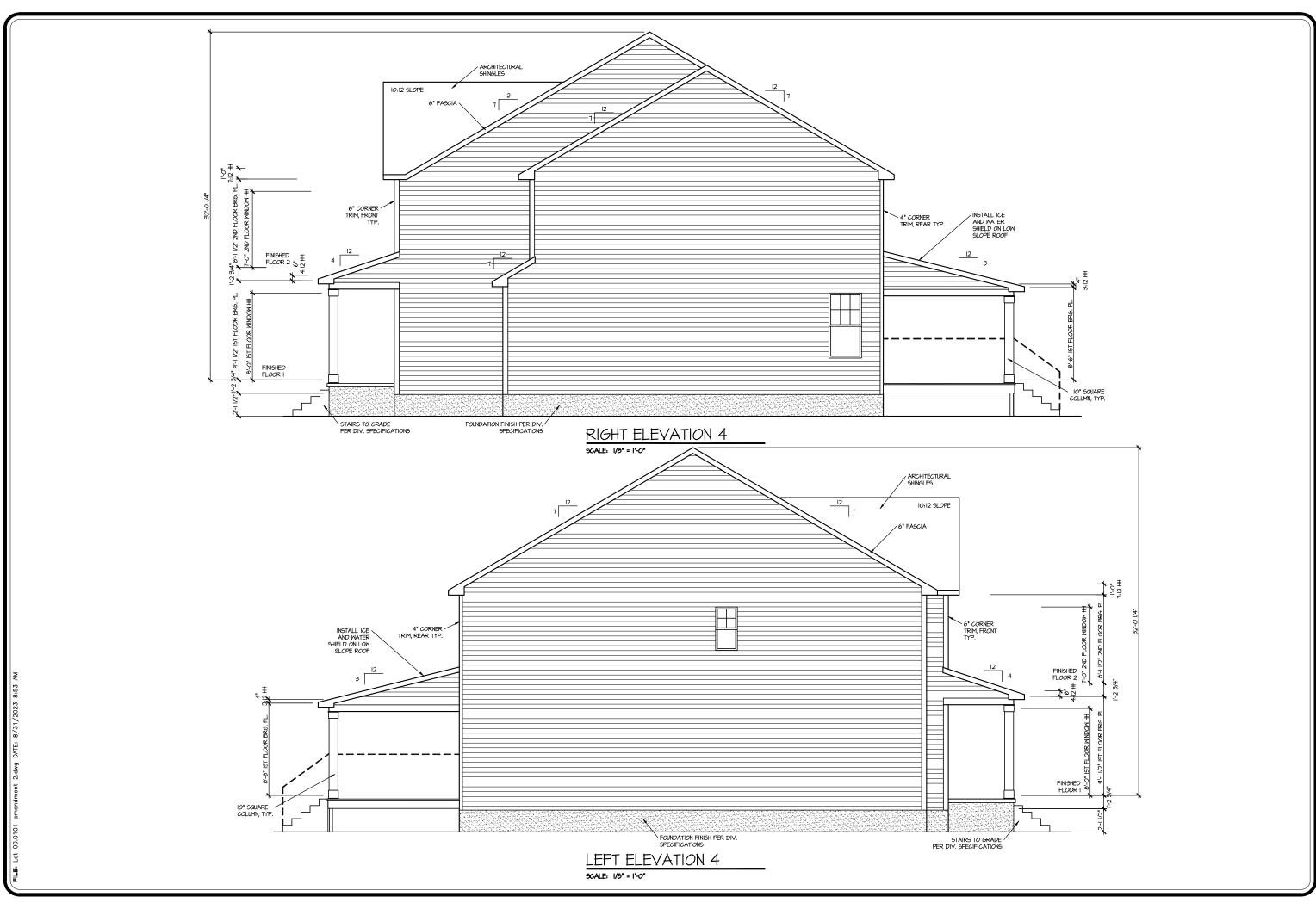
17 WHIMBREL COURT

	SPECIFIC	
1	LOT 00.0101	BLAKE POND
		TOWNSEND R99 ELEVATION 4
2	ADDRESS	999 NEWSTAR DRIVE NEWSTAR, AK 99999

<u>INDEX</u>	
	,



FRONT & REAR ELEVATIONS



| MASTER PLAN INFORMATION | REVISION | DATE | DATE

DRAWN BY:
ITS
DATE:
08/31/2023
PLAN NO.
3501

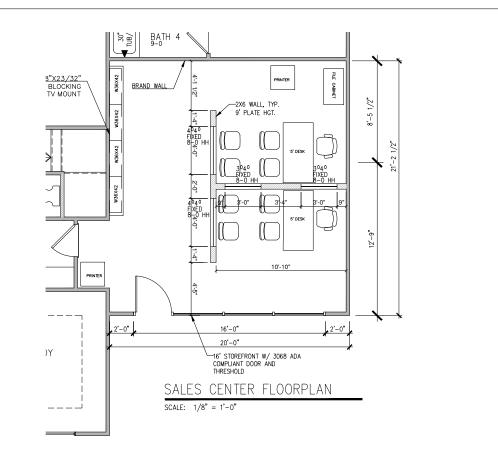


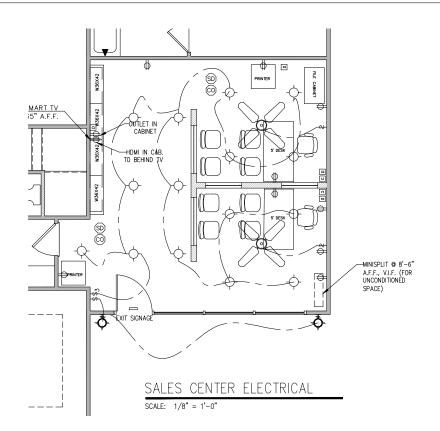
HOUSE NAME:

TOWNSEND

DRAWING TITLE

RIGHT & LEFT ELEVATIONS







CONSULTANT LOGO

SEAL

DRAWN BY: L. BEAVERS DATE: 9/1/23

PLAN NO.

11 X 17 SCALE

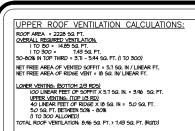
24 X 36 SCALE

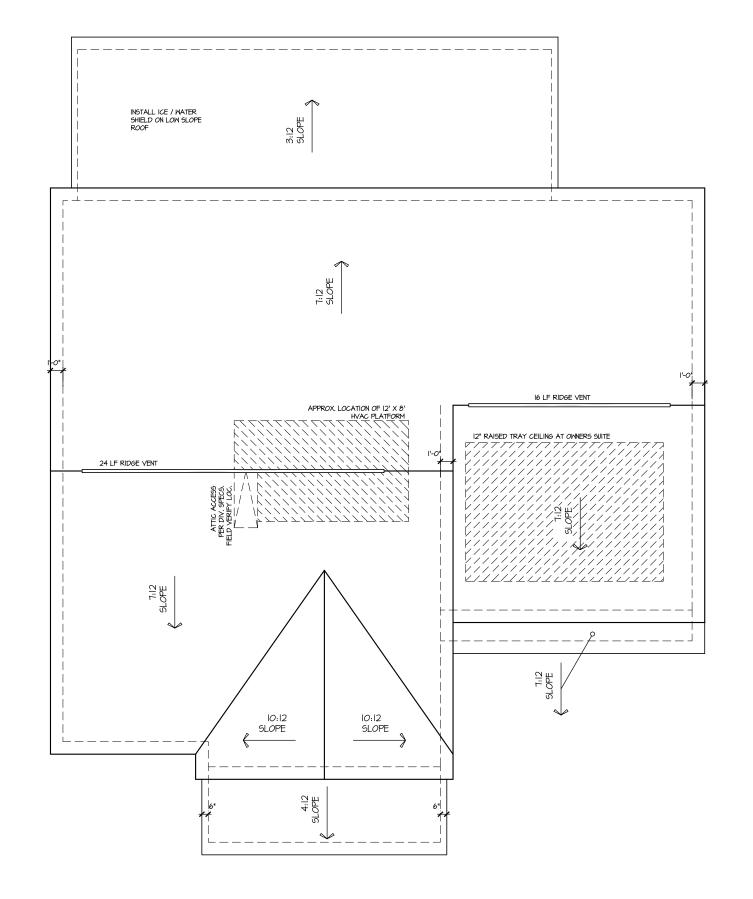


CENTER SALES HOUSE NAME:
TOWNSEND 5
DRAWING TITLE
ELEVATION 4

GR

4





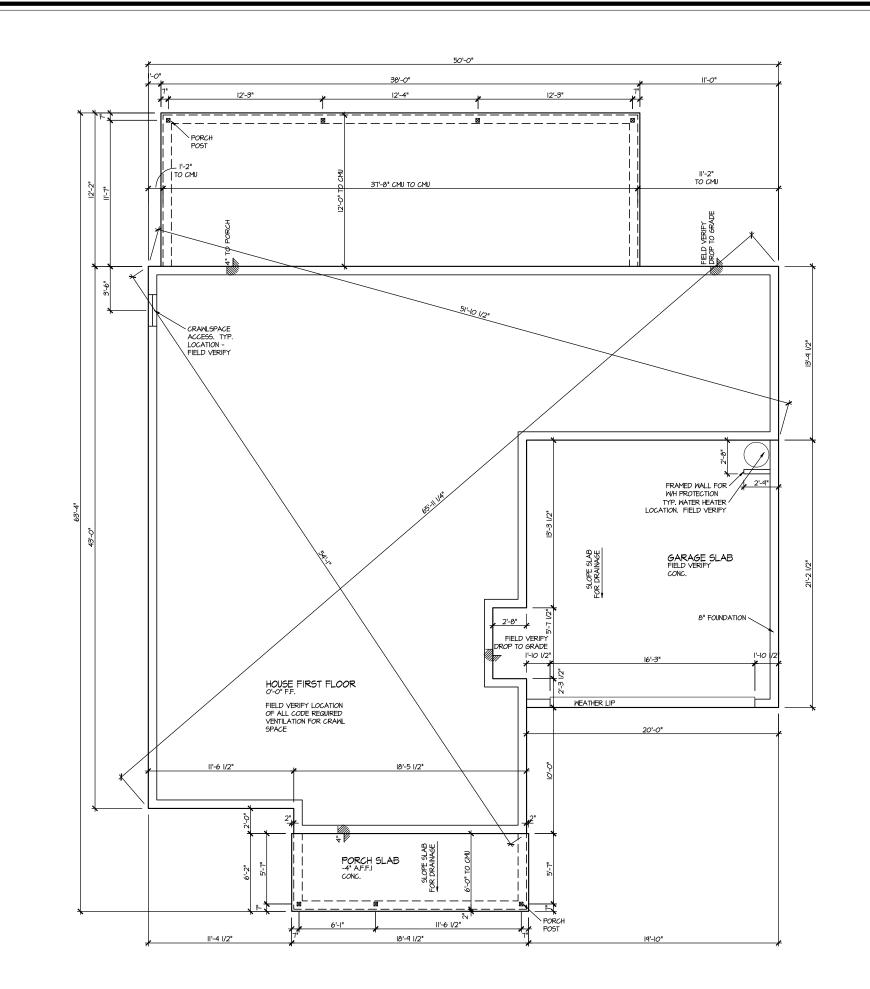
ROOF PLAN ELEV. 4
SCALE: 1/8" = 1'-0"

DRAWN BY: DATE: 08/31/2023 PLAN NO. 3501



HOUSE NAME:
TOWNSEND
DRAWING TITLE

ROOF PLAN

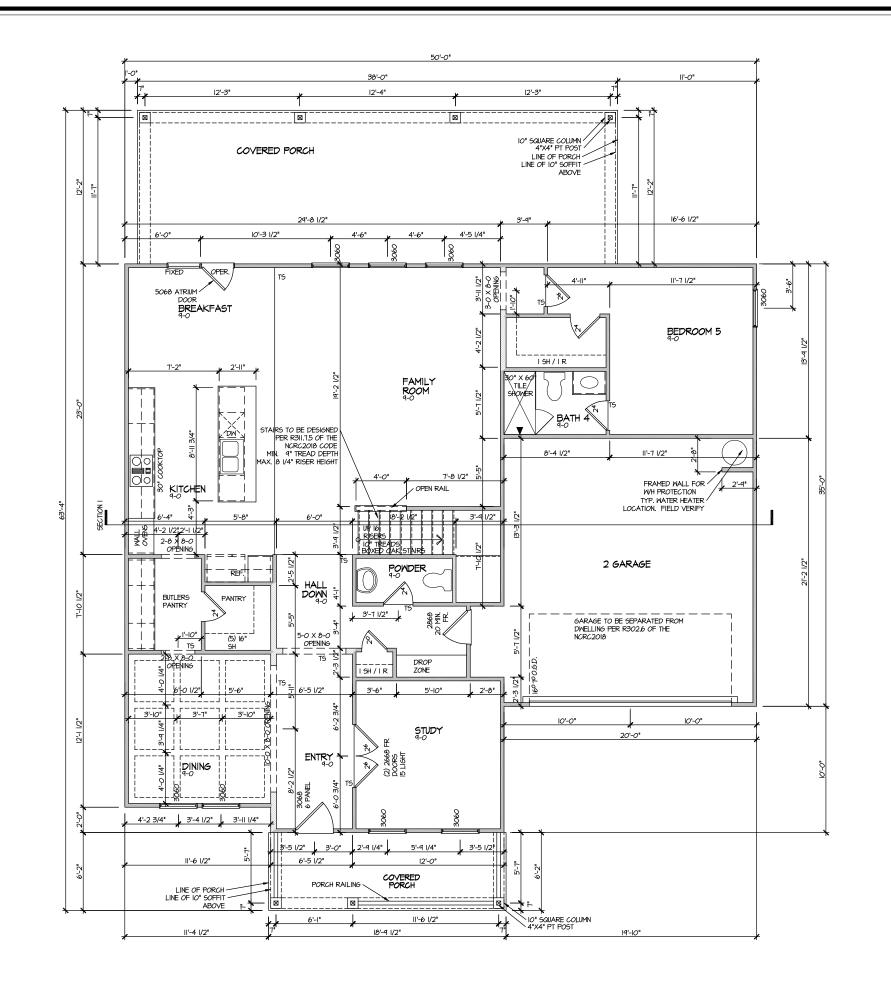


ELEVATION 4 CRAWL SPACE PLAN SCALE: 1/0" DATE: 08/31/2023
PLAN NO. 3501

UPDATED DATE 05-22-2023

DRAWN BY:

HOUSE NAME:
TOWNSEND
DRAWING TITLE
CRAML SPACE PLAN

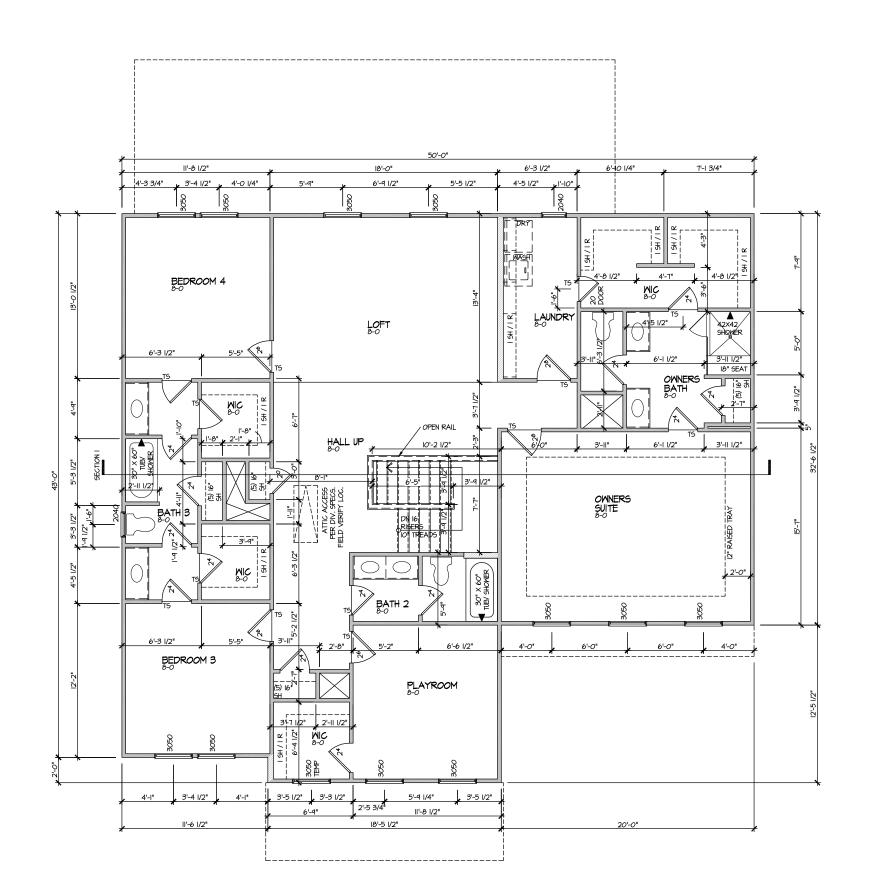


ELEVATION 4 FIRST FLOOR PLAN SCALE: 1/8" = 1'-0"

MASTER PL DRAWN BY: DATE: 08/31/2023 PLAN NO. 3501

FLOOR PLAN HOUSE NAME: TOWNSEND

SHEET No. A3.I



ELEVATION 4 SECOND FLOOR PLAN SCALE: 1/8" = 1'-0" MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

REVISION DATE

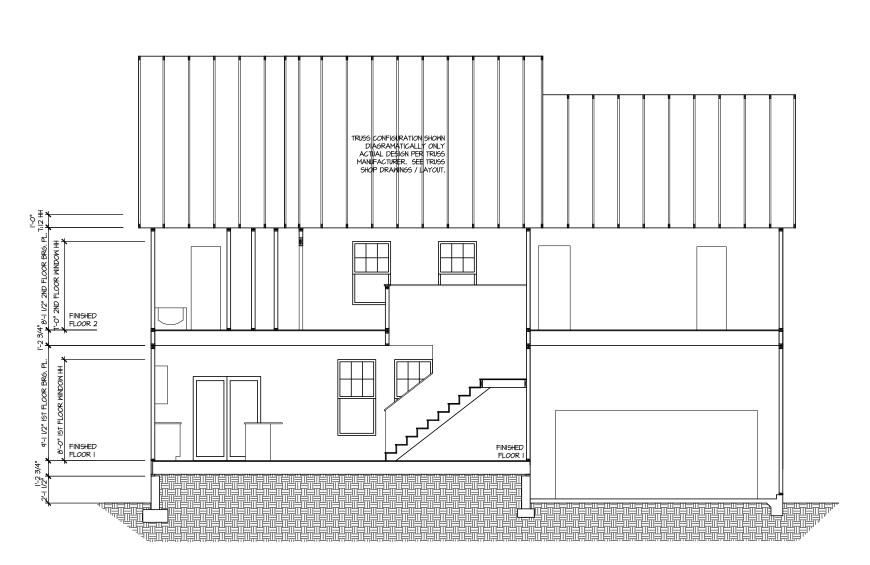
ON WPT

RE99 10-04-2022 05-22-2023

HOMES

HOUSE NAME:
TOWNSEND
DRAWING TITLE
SECOND FLOOR PLAN

SHEET No. A3.2



SECTION I

Lot 00.0101 amendment 2.dwg DATE: 8/31/2023 8:53 AM

HOUSE NAME:

TOWNSEND

DRAWING TITLE

BUILDING SECTION

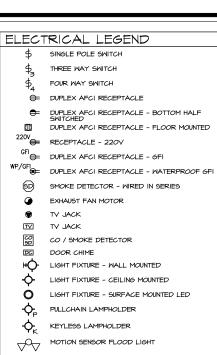
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MASTER PLAN INFORMATION
REVISION DATE
R99 10-04-2022

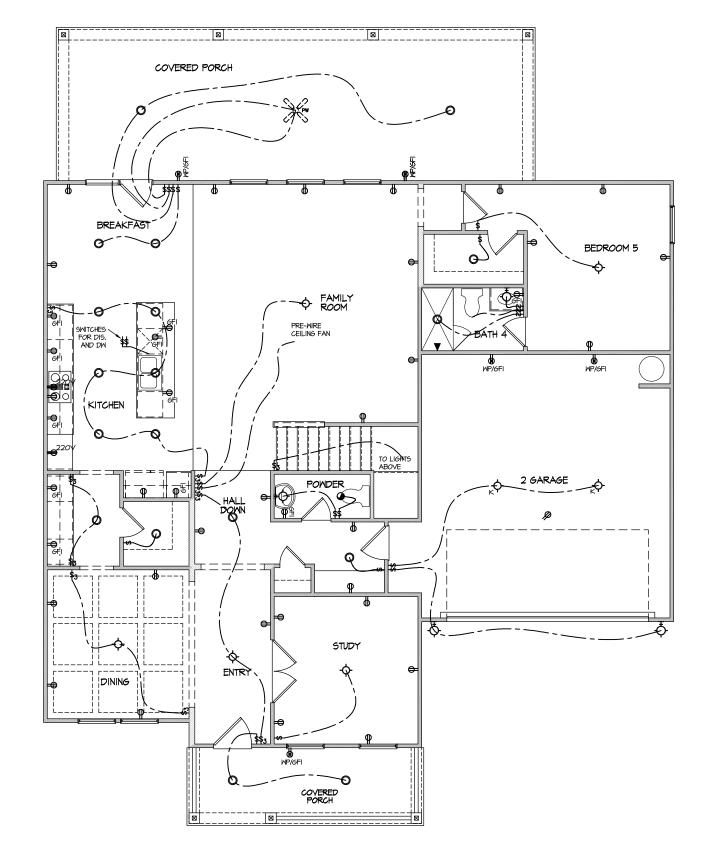
DRAWN BY: ITS

DATE: 08/31/2023

PLAN NO. 3501



NOTE: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.



FLOOR ELECTRICAL

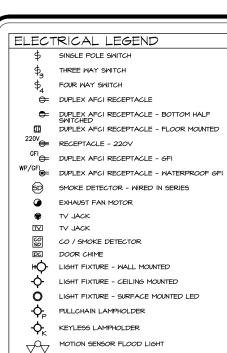
SHEET No.

HOUSE NAME:
TOWNSEND
DRAWING TITLE

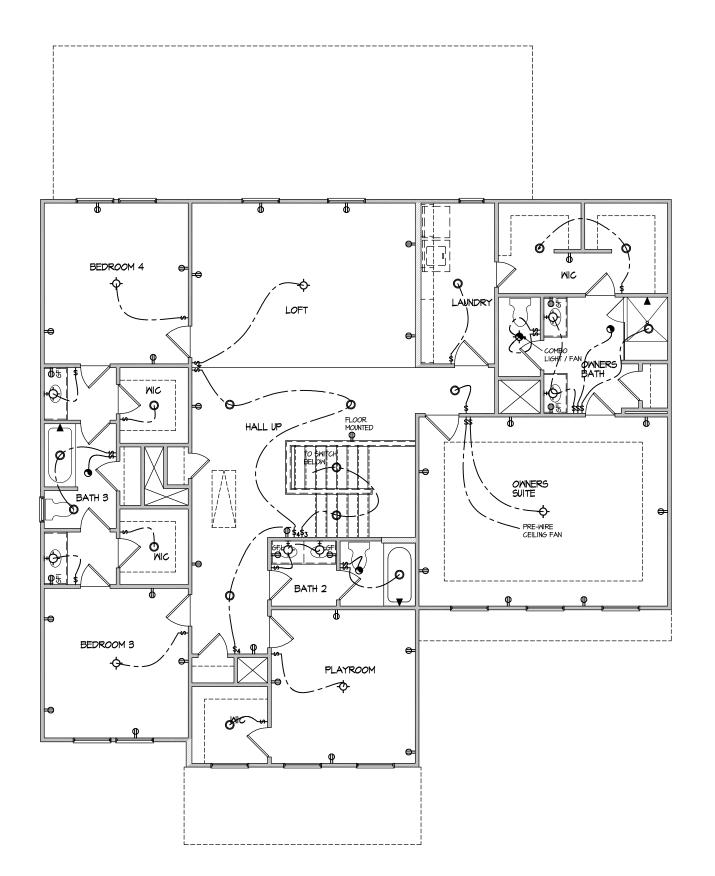
DRAWN BY:

DATE: 08/31/2023

PLAN NO. 3501



NOTE: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.



ELECTRICAL PLAN SECOND FLOOR - ELEV. 4 SCALE: 1/8" = 1'-0" HOUSE NAME:
TOWNSEND
DRAWING TITLE

SECOND FLOOR ELECTRICAL

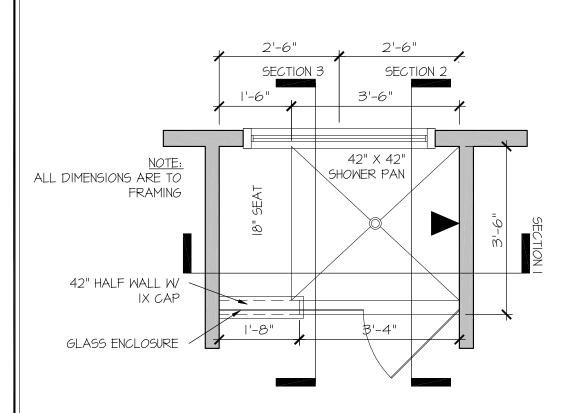
UPDATED DATE 05-22-2023

MAS REVI

DRAWN BY:

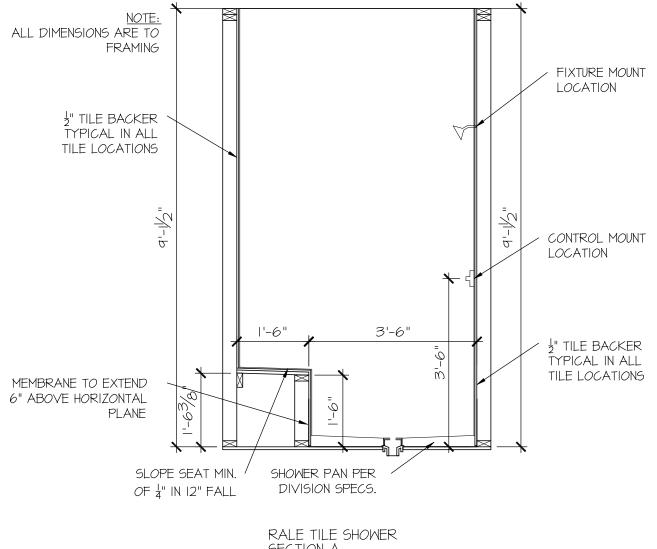
DATE: 08/31/2023

PLAN NO. 3501



RALE TILE SHOWER 42" X 42" W 18" SEAT

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



SECTION A

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

CONSULTANT LOGO

DRAWN BY: L. BEAVERS DATE: 9/1/22 PLAN NO.

11 X 17 SCALE

24 X 36 SCALE



DETAIL SHOWER RALE



SEAL

DRAWN BY:
L. BEAVERS
DATE: 9/1/22

PLAN NO.

04 V 76 COALE

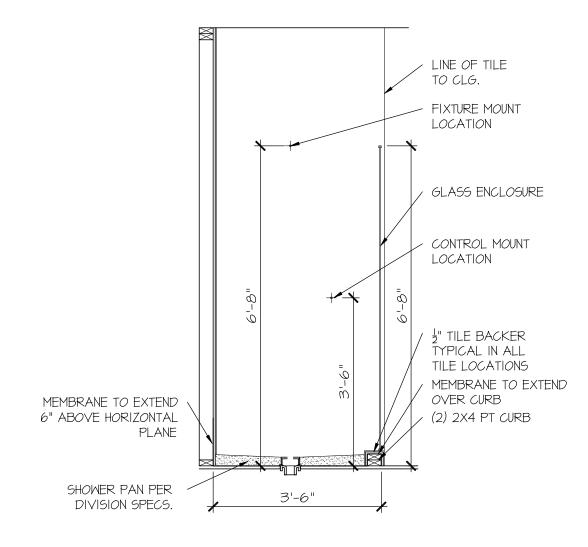
24 X 36 SCALE



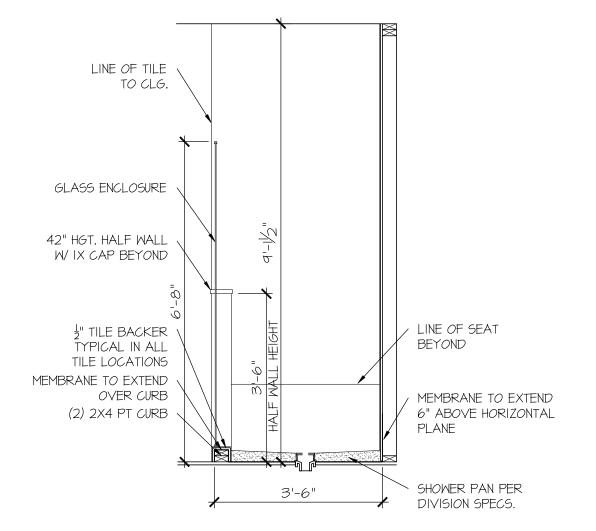
SHOWER DETAIL

RAWING TITLE

SHEET No.



RALE TILE SHOWER
SECTION B
SCALE: 1/2" = 1'-0"



RALE TILE SHOWER SECTION C

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

DESCRIPTION OF BLDG, ELEMENT	3"x0.131" NAILS	3"x0.120" NAILS
JOIST TO SOLE PLATE	(3) TOENAILS	(3) TOENAILS*
SOLE PLATE TO JOIST/BLK'G.	(3) NAILS 🛭 4" o.c.	(3) NAILS • 4" o.c.
STUD TO SOLE PLATE	(2) TOENAILS	(3) TOENAILS*
TOP OR SOLE PLATE TO STUD	(2) NAILS	(3) NAILS
RIM TO TOP PLATE	TOENAILS @ 8" O.C.	TOENAILS @ 6" o.c.*
BLK'G. BTWN. JOISTS TO TOP PL.	(3) TOENAILS	(3) TOENAILS*
DOUBLE STUD	NAILS @ 24" O.C.	NAILS @ 16" o.c.
DOUBLE TOP PLATE	NAILS @ 24" o.c.	NAILS @ 16" o.c.
DOUBLE TOP PLATE LAP SPLICE	(9) NAILS IN LAPPED AREA	(II) NAILS IN LAPPED AREA
TOP PLATE LAP @ CORNERS €	(2) NAILS	(2) NAILS
INTERSECTING WALLS		

2½"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. (ONLY ACCEPTABLE WHERE * ARE SHOWN)

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING FLEMEN N CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO: FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY OR WARRANTY TOLERANCES.

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DIFFERENTIAL DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN.

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

- A ROOF TRUSSES:
- I/4" DEAD LOAD FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS
- I/8" DEAD LOAD FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS: LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD

LOAD. (NOT DIFFERENTIAL DEFLECTION)

GENERAL STRUCTURAL NOTES

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

DESIGN LOADS

ROOF DEAD = 7 PSF T.C., IO PSF B.C.

LOAD DURATION FACTOR = 1.25

LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (1-JOISTS & SOLID SAWN) IO PSF T.C., 5 PSF B.C. (TRUSSES) (ADD'L IO PSF @ TILE)

LATERAL 120 MPH, EXPOSURE B. SEISMIC A/B.

2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

GENERAL FRAMING

- ALL TYP, NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE OR ON PLANS, ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- REFER TO FASTENING SCHEDULE TABLE R602.3(I) FOR ALL CONNECTIONS, TYP, U.N.O.
- EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS, 0 16" O.C. SPF OR SYP "STUD" GRADE LUMBER, OR BETTER, U.N.O. • WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRICE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SYP) LUMBER, OR BETTER (KILN-DRIED). ALL HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS & SIZED ACCORDINGLY, CODE TABLES HAVE NOT BEEN USED.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED @ 16" O.C. (MAX. UN.O.) • HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- (1)2x4/6 FLAT @ OPENINGS UP TO 4'. (2)2x4/6 FLAT UP TO 8'
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING
 - "LSL" Fb=2325 psi: Fv=3I0 psi: E=I,55xI0^6 psi • 'LVL' - Fb=2600 psi; Fv=285 psi; E=2.0xI0^6 psi
- 'PSL' FB=2900 PSI; FV=290 PSI; E=2.0XI0^6 PSI
- M+K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO M+K FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.
- FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS 1/4"x3/5" SIMPSON SDS SCREMS (OR 3½" TRUSSLOK SCREMS) © 16" O/C. USE A MINIMUM OF 3 ROMS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE SOLID 3 K" OR 5 K" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8 MEMBERS.
- FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROMS OF $\frac{1}{4}$ "x6" SIMPSON SDS SCREWS (OR 6 $\frac{3}{4}$ " TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER, APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREWS 2" FROM EDGE, A SOLID 7" BEAM IS ACCEPTABLE
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x KING STUD, MINIMUM.
- THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O.,
- ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER w/ 3"X0.131" NAILS @ 24" O.C. (MIN.), EACH PLY.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND,/BEARING. BLOCKING TO MATCH POST ABOVE.
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH P.A.F.'s ('HILTI' X-CF PINS OR EQUAL) @ 16" O.C. STAGGERED, OR I/2" DIA. BOLTS @ 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BCS2-2/4 CAP & ABW44Z BASE, U.N.O.

FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES MARBLE FLOORS - CONTACT M&K FOR MARBLE FLOOR DESIGNS)
- AT I-JOIST FLOORS, PROVIDE I I/8" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C. EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W GLUE AND
- 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES € @ 12"o.c. FIELD.
- 2 3 × 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. FIELD. - 2 3" x 0,113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD.
- #6 x 2" MIN. SCREWS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.

ROOF FRAMING

- BAY WINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.
- FASTEN FACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H2.5T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H2.5T CLIPS AT 2-PLY GIRDER TRUSSES (3) H2 5T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W 2x4 LEDGER FASTENED TO
 - RIM BOARD w/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS) - TRUSS VERTICALS W/ (3) 3"x0.131" NAILS @ 19.2" O.C. MAX. (FLOOR TRUSSES)
- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
- W/ 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES € @ 12" O.C. FIELD. - w/ $2\frac{3}{8}$ " x 0.120" NAILS @ 4"o.c. @ PANEL EDGES & @ 8" O.C. FIELD.
- W/ 2 3" x 0.113" NAILS @ 3"O.C. @ PANEL EDGES & @ 6" O.C. FIELD.

VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L3"x3"x¼"
	3 FT. MAX	L3"x3"x¼"
6'-0"	I2 FT. MAX	L4"x3"x1/4"
	20 FT. MAX	L5"x3½"x¾"
8'-0"	3 FT. MAX	L4"x4"x¼" "
<i>6-</i> 0	I2 FT. MAX	L5'x3½'x¾"
	l6 FT. MAX	L6"x3½"x%"
9'-6"	I2 FT. MAX	L6"x3½"x¾"
16'-0"	2 FT. MAX	L7"x4"x½" **
	3 FT. MAX	L8"x4"x½" **

34 PPORT 2 5% - 3 ½ VENEER W 40 pol MAXIMUM MEIGHT L HAVE 4* MIN. BEARING L NOT BE FASTENED BACK TO HEADER.

- I/O SHALL NOT BE PASTENDE PACK TO FEADER IN WALL #46°06. W/3° DIA. X 3'5'
 LONG LEE PASTENDE PACK TO DOD FEADER IN WALL #46°06. W/3° DIA. X 3'5'
 LONG LEE PASTENDE BE WINDERSCHALL ZUITED PACES.

 LONG LEE PASTENDE BE WINDERSCHALL ZUITED PACES.

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 STO ALLOW FOR YEARY JUNIT FRINGHING.

 STO ALLOW FOR YEARY JUNIT FRINGHING.
- R QUEEN YENEER USE L4x3%". OR 3½" YENEER ONLY. SEE PLAN FOR VENEER SUPPORT IF VENEER < 3½" THICK.

SD2.I REFERS TO SD2.IA FOR LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: 20 MPH WIND IN 2018 NCSBC:RO

(120 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10, AS PERMITTED BY R30113 OF THE 2018 NCSBC-RC OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST

THE CODE REQUIRED LATERAL FORCES. DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC SECTION R802.II.I. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED

SECTIONS R60235& R80211 EXT. WALL SHEATHING SPECIFICATION

TO RESIST THE WIND UPLIFT LOAD PATH PER

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W 2 3/8"x0.II3" NAILS @ 6" O.C. AT EDGES & ● 12" O.C. IN THE PANEL FIELD. TYP, U.N.C.
- HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1½" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES \$ @ 6" O.C IN FIELD.

BLOCKED PANEL EDGES

AT DESIGNATED AREAS - FASTEN SHEATHING w/ 2 36" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 34" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C IN FIELD. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE FASTENING.

3" O.C. EDGE NAILING

AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING w/8d NAILS @ 3" O.C. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING
- PRE-MANUFACTURED PANELIZED WALLS FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB SHEARWAI OR 3" O.C. OSB SHEARWALL.

► INDICATES HOLDOWN BELOW

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- FOOTING DESIGN 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2x4/6 SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, I2" MAX, FROM PLATE ENDS - UTIL I7ING
- I/2" DIA. ANCHOR BOLTS 6'-0" O.C, 7" MIN. EMBEDMENT (CONC), 15" MIN, EMBEDMENT (CMU)
- SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONC)
- SIMPSON MAB23 ANCHOR STRAPS @ 2'-8" O.C. (CMU) (REFER TO DETAILS FOR IO' TALL WALL ANCHOR REQUIREMENTS)
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- BUILDER TO VERIEY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD, CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- BASEMENT INTERIOR BEARING WALLS & EXTERIOR WALK-OUT BASEMENT WALLS SHALL BE 2x6 € 16" O.C. SPF OR SYP, "STUD" GRADE OR BETTER.
- CONCRETE DESIGN BASED ON ACL 318 CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.: 4,000 psi: FOUNDATION WALLS 2,500 psi: FOOTINGS & INTERIOR SLABS ON GRADE 3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE
- BASEMENT FOUNDATION WALL DESIGN BASED ON:

60,000 psi

- · 9' OR 10' HEIGHT (AS NOTED ON PLANS) - TALLER WALLS MUST BE ENGINEERED.
- NOMINAL WIDTH (91/2" FOR 10" THICK WALL).
- BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE CLASSIFICATIONS (SC. ML-CL, OR CL).
- BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT, FND, WALL WITH 2" CLEAR, REINFORCEMENT SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS.
- FOR OPENINGS UP TO 36", PROVIDE MINIMUM 10" CONCRETE
- DEPTH OVER OPENING OR (3)2x10 w/ (2)2x6 JACK STUDS, U.N.O LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT
- ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP
- . JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR
- 15'-0" O.C. (MAXIMUM) JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS
- POSSIBLE (I.I RATIO) WITH A MAXIMUM OF I.15 RATIO · CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL
- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (F'm=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 € 530.I.
- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 9 GA. MINIMUM @ 16" O.C.
- PROVIDE 2x8 x 16" LONG PT PLATE ON TOP OF ALL CRAWL SPACE PIERS. ALL PIERS SHALL BE GROUTED SOLID.
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS. FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE. DIMENSIONS BY OTHERS, BUILDER TO VERIFY.
- BUILDER TO VERIFY THAT MODEL HAS BEEN ADEQUATELY TREATED BY A LICENSED AND BONDED PEST CONTROL COMPANY FOR SUBTERRANEAN TERMITES, METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY.

HOLD-DOWN SCHEDULE

5YMB0L	SPECIFICATION
► HD-I	SIMPSON HTT4 HOLD-DOWN *
► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) (PRE-BENT MSTC66 ALT. WHEN SPECIFIED)
► HD-3	SIMPSON STHDI4/I4RJ HOLD-DOWN

ALTERNATIVE TO SSTB24 ANCHOR BOLT SPECIFICATION: UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN %" DIA. THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF, RECOMMENDATIONS. DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION

a 8/30/23 TH CAR PROFESSION, O. MINE SEPHT. R

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I&K project numbe 126-2306

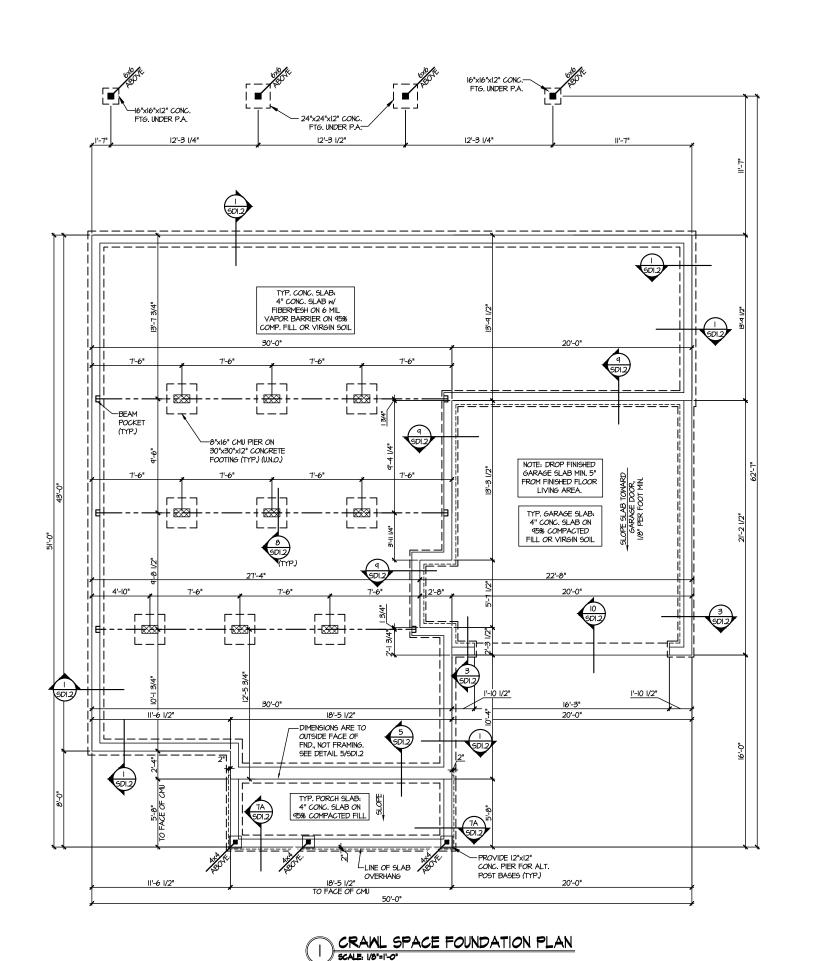
oject mgr: **JTR** rawn by: BGI sue date: 08-25-2

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H CAR SENGINEE MEPH T. R MULHERN+KUL
RESIDENTIAL STRUCTURAL ENGINEERI

^{2al:} 8/30/23

M&K project number: 126-2306

JTR drawn by: BGL issue date: 08-25-2

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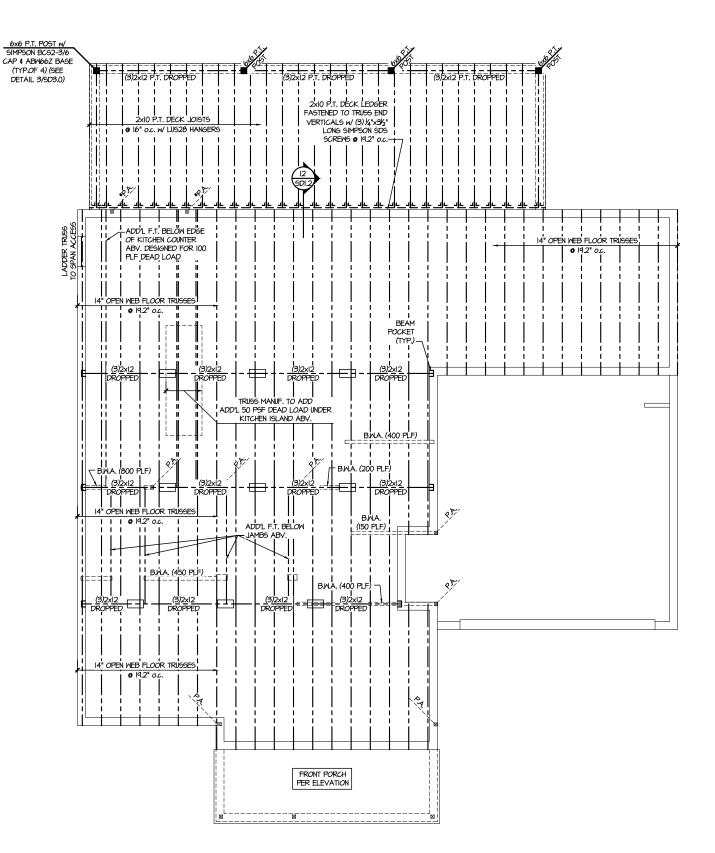
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BLAKE POND LOT 101 - TOWNSEND 4 RALEIGH, NC OUNDATION

S1.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

- IIIII INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- JL METAL HANGER
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP.
 REFER TO SCHEDULE.



ENGINEERED BEAM MATERIAL SCHEDULE BEAM LVL OPTION FLITCH OPTION STEEL OPTION 2)2xI0 + (I) ¼"xII¼" STEEI FLITCH PLATE - H 001 (2)134"×914" - H 3½"x9¼" - н (2)134"×9½" - F N/A (2)2xl2 + (I) %"xl以" STEEL FLITCH PLATES - F 002 (2)|%"x|4" - F 3%"xI4" - F (3)13/4"×14" - F WI2xI4 003 (3)2xl2 + (2) %"xll"," STEEL FLITCH PLATES -(3)13/4"x18" - FT 51/4"x18" - FT WI2x26 -(2)2xi2 + (i) i"xil¼" steel flitch plates - f 004 (2)134"x18" - FT 3½"xl8" - FT N/A (2)2xl0 + (1) 以"xl以" STEEL FLITCH PLATE - F 005 (2)13/4"x14" - F 3½"xl4" - F (2)13/4"x14" -N/A (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - F 006 (2)|3/4"x|4" - F 3½"xl4" - F N/A N/A (3)2x12 + (2) ¼"x11¼" STEEL FLITCH PLATES - F 001 (3)13/4"×14" - F 5¼"xl4" - F (4)1¾"x14" -WI2xI4 - F (2)13/4"×14" - F 3½"xl4" - F (3)13/4"×14" - F 009 (2)|3/"v|4" - F 3½"xl4" - F N/A N/A WA (2)2xI0 + (I) ¼"xII¼" STEEL FLITCH PLATE - H 010 N/Α (2)13/4"x91/4" - H 31/2"x91/4" - H (2)134"×915" - H (2)2×10 + (1) ¼"xI¼" STEEL FLITCH PLATE - H NΑ (2)13/4"x9/4" - H 31/3"x91/4" - H (2)13/4"x91/5" - H 012 N/A NΑ N/A N/A 013 N/A N/A (3)134"x914" - H (2)134"×714" - H

BEAM NOTATION: - "F" INDICATES FLUSH BEAM - "FT" INDICATES FLUSH TOP BEAM - "FB" INDICATES FLUSH BOTTOM BEAM

- "D" INDICATES DROPPED BEAM
- "H" INDICATES DROPPED OPENING HEADER
REFER TO DETAIL D/SD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS

REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN

PLATES IN SUCCESSION W (2) 3"X0.120" NAILS @ 8" O.C.

FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS @ 8" O.C.

** 8/30/23 Walter Barre CAR ENGINEE SEPH T. RI

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING



M&K project number: 126-2306

JTR frawn by: BGL ssue date: 08-25-2

REVISIONS:

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TOWNSEND A AKE POND OR BLAKE LOT 101 - T RALEIGH, 1

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

SD2, REFERS TO SD2, IA FOR LVL/PSL/LSL BEAMS OR SD2.IB

FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

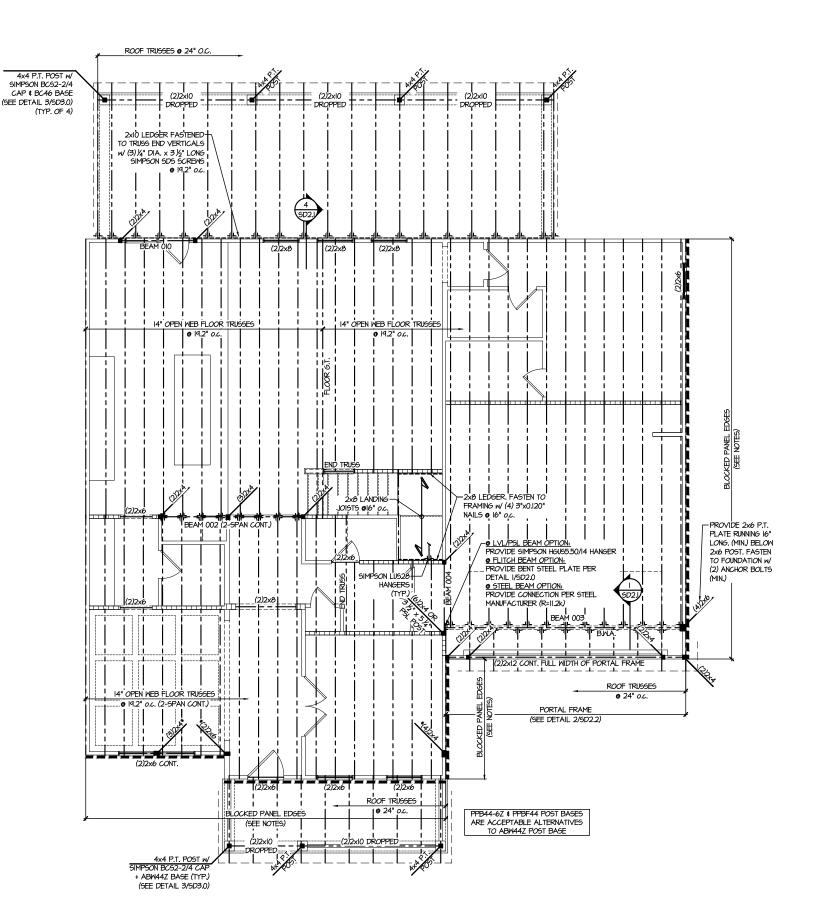
- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- BEAM / HEADER
- = INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING

JL METAL HANGER

* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

IST FLOOR FRAMING PLAN



2ND FLOOR FRAMING PLAN

ENGINEERED BEAM MATERIAL SCHEDULE BEAM NUMBER LVL OPTION FLITCH OPTION STEEL OPTION 2)2xI0 + (I) ¼"xII¼" STEEI FLITCH PLATE - H 001 (2)134"×914" - H 3½"x9¼" - н (2)134"×9½" - F N/A (2)2xl2 + (I) %"xl以" STEEL FLITCH PLATES - F 002 (2)|%"x|4" - F 3%"xI4" - F (3)|%"x|4" - F WI2xI4 003 (3)2xl2 + (2) 5/4"xll4" STEEL FLITCH PLATES -(3)13/4"x18" - FT 51/4"x18" - FT WI2x26 -(2)2xi2 + (i) i"xil¼" steel flitch plates - f 004 (2)134"x18" - FT 3½"xl8" - FT N/A (2)2xl0 + (1) 以"xl以" STEEL FLITCH PLATE - F 005 (2)13/4"x14" - F 3½"xl4" - F (2)13/4"x14" -N/A (2)2xl2 + (l) %"xl以" STEEL FLITCH PLATES - F 006 (2)|3/4"x|4" - F 3½"xl4" - F N/A N/A (3)2x12 + (2) ¼"x11¼" STEEL FLITCH PLATES - F 001 (3)13/4"×14" - F 5¼"xl4" - F (4)1¾"x14" -WI2xI4 - F (2)13/4"x14" - F 3½"xl4" - F (3)13/4"×14" - F 009 (2)|3/"v|4" - F 3½"xl4" - F N/A N/A WA (2)2xI0 + (I) ¼"xII¼" STEEL FLITCH PLATE - H 010 N/Α (2)13/4"×91/4" - H 31/2"x914" - H (2)13/4"×91/2" - H (2)2×10 + (1) ¼"xI¼" STEEL FLITCH PLATE - H (2)13/4"x9/4" - H 3 K"x4K" - H (2)13/4"x91/5" - H NΑ 012 N/A NΑ N/A N/A 013 N/A N/Α (3)134"×914" - H (2)134"×714" - H

BEAM NOTATION: - "F" INDICATES FLUSH BEAM - "FT" INDICATES FLUSH TOP BEAM - "FB" INDICATES FLUSH BOTTOM BEAM

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PLATES IN SUCCESSION W (2) 3"X0.120" NAILS @ 8" O.C.

FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS @ 8" O.C.

William H SEPH T. RI

al: 8/30/23 CAR ENGINEE

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING



M&K project number: 126-2306

JTR frawn by: BGL ssue date: 08-25-2

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BLAKE LOT 101 - T RALEIGH, 1 **S3**.

REFER TO SO.O FOR & SCHEDULES

SD2.I REFERS TO SD2.IA FOR LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

LEGEND

- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- BEAM / HEADER
- = INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING
- JL METAL HANGER
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

TYPICAL STRUCTURAL NOTES

126-23061

JTR drawn by: issue date: 08-25-23

REVISIONS:

LEGEND

• == INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING

* INDICATES POST ABOVE, PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

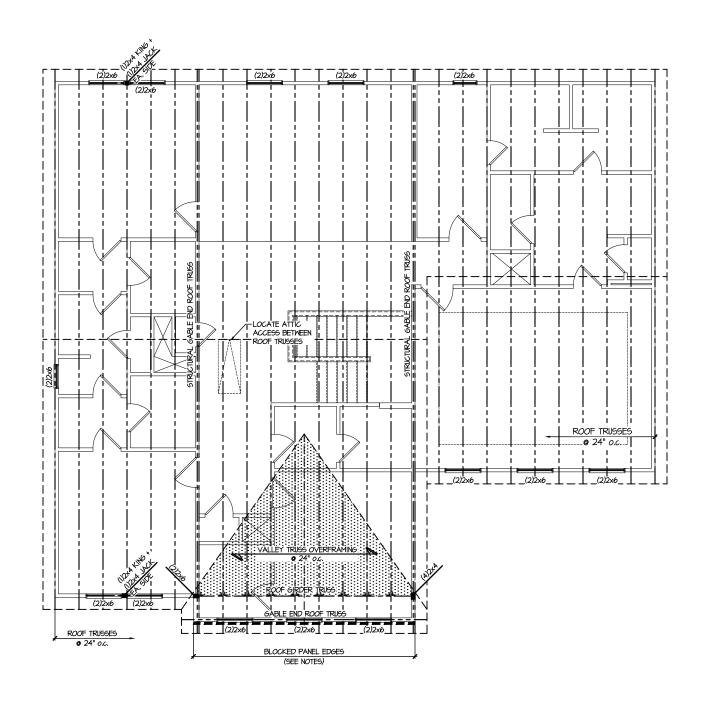
INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

• IIIIIII INTERIOR BEARING WALL

● □===□ BEARING WALL ABOVE • --- BEAM / HEADER

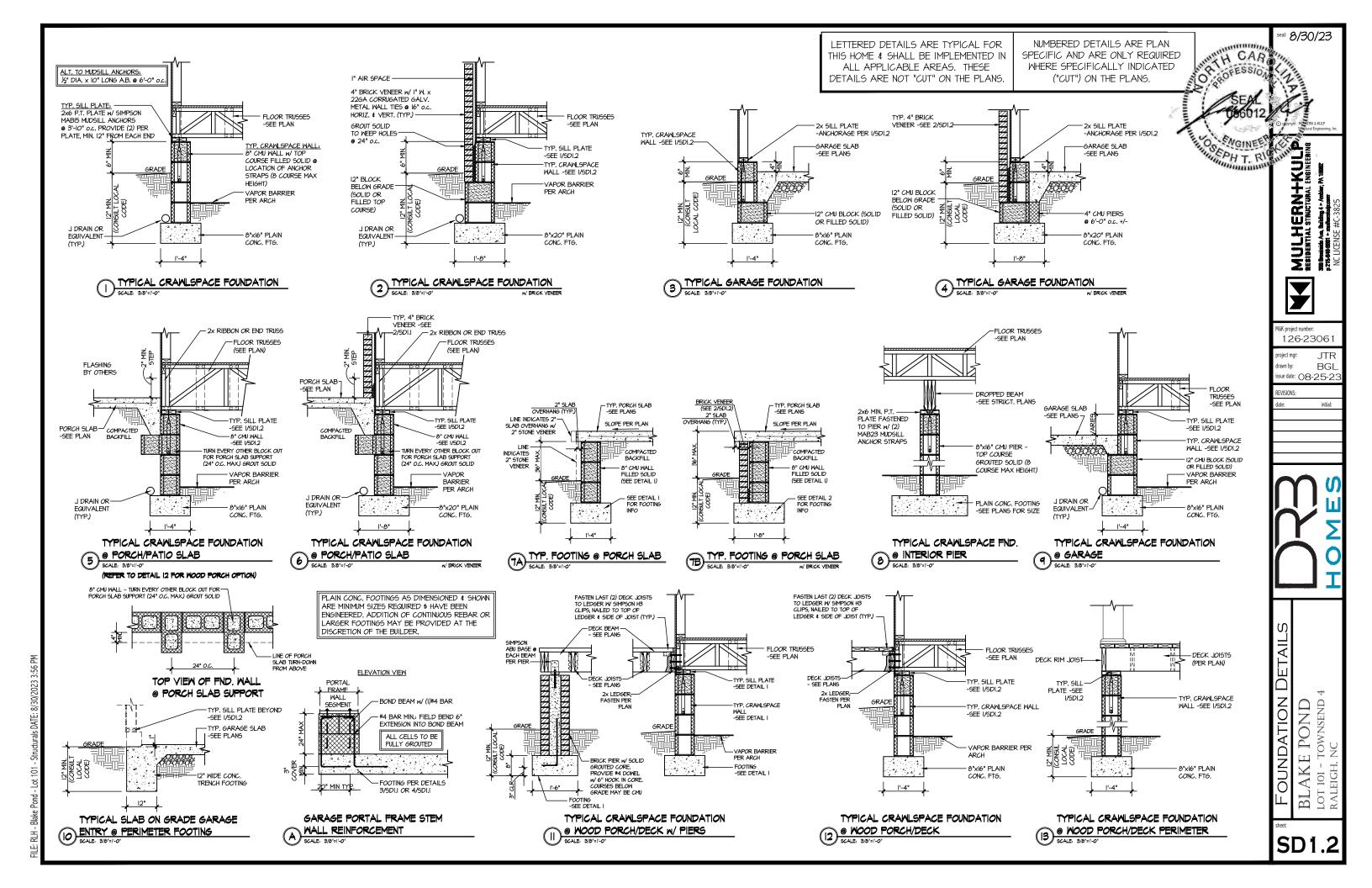
JL METAL HANGER

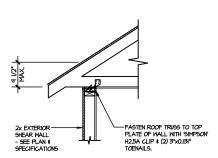
BLAKE POND Lot 101 - Townsend 4 Raleigh, nc ROOF





ROOF FRAMING PLAN





TYPICAL SHEAR

TRANSFER DETAIL @ ROOF HEEL HEIGHT LESS THAN 4½" NO BLOCKING REQ'D

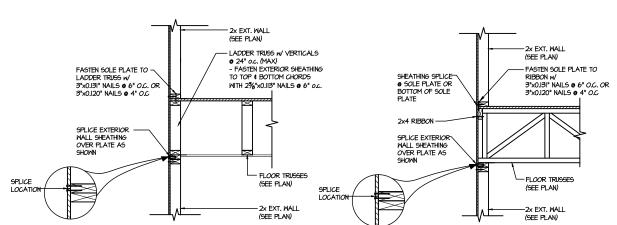
2xi0 (4 ½" - 12" HEEL) OR 2xi2 (12" - 16" HEEL) SOLID BLOCKING PANELS EVERY 3RD TRIBS BAY (12" OL. MAX) FASTEN EA. BLOCKING PANEL TO TOP PLATE w/ (4) 3"x0.13" TOENAILS -BLOCKING MUST FIT TIGHT BETWEEN TRUSSES. FASTEN EA. END OF BLOCKING TO TRUSS W(2) 3"X0.131" TOENAILS • TOP OF PANEL -Fasten Roof Trugs to top Plate of Wall With 'SIMPSON' H2.5A CLIP 2x Exterior— Shear Wall - See Plan & Specifications

TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

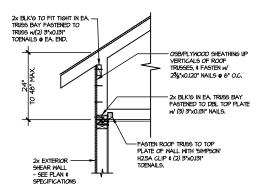
SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9,

HEEL HEIGHT BETWEEN 9½" - 16" BLOCKING REQ'D



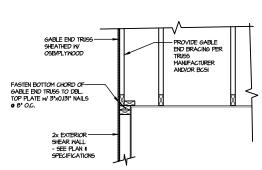
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL

TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE 989*1-0" FEMPENDIAL AS FRAME

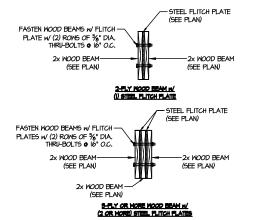


TYPICAL SHEAR TRANSFER

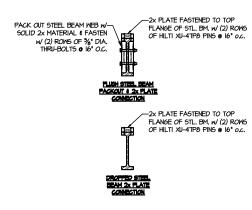
DETAIL @ RAISED HEEL TRUSS



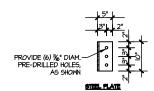
TYPICAL GABLE END DETAIL SOLLE: 3/8"=1"-0"

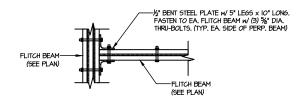


TYPICAL FLITCH BEAM CONNECTION DETAIL



TYPICAL STEEL BEAM CONNECTION DETAIL
SCALE 9/4*-1"-0"





TYPICAL FLITCH BEAM TO FLITCH BEAM CONNECTION DETAIL

> LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE

NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED WHERE SPECIFICALLY INDICATED ("CUT") ON THE PLANS.

DETAILS ARE NOT "CUT" ON THE PLANS.

G DET

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** 8/30/23

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

M&K project number:

roject mgr:

drawn by:

REVISIONS

126-2306

issue date: 08-25-2

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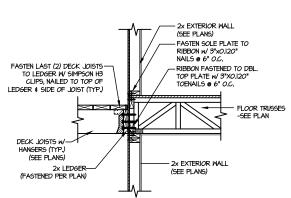
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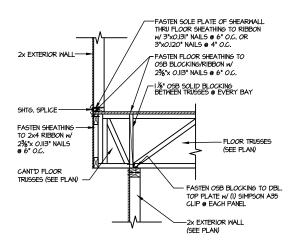
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SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE

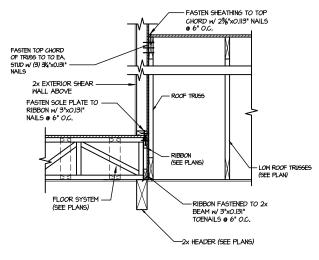


DECK LEDGER CONNECTION DETAIL

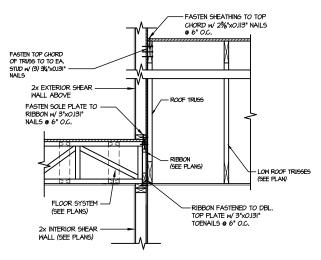
SCALE 944**-11-0*



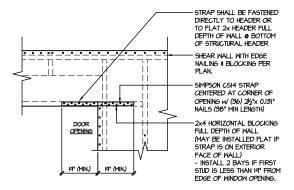
SHEAR TRANSFER DETAIL BETWEEN 2 FLOORS @ CANT'D EXT. WALL



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

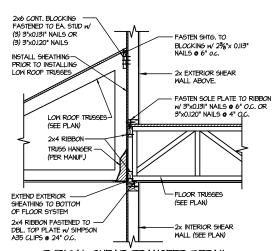


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



- STRAPS MAY BE INSTALLED ON EXTERIOR OR INTERIOR FACE OF WALL
- WHEN INSTALLED ON THE EXTERIOR FACE OF THE WALL, STRAPS TO BE INSTALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED IS "FROM EDGE TO ALLOW FOR DOOR NAILING REQUIRED ONLY @ OPENINGS WHERE SPECIFIED ON PLAN

TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION SCALE NTS



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



al: 8/30/23

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OR.

TOWNSEND ' POND Ŋ AKE LOT 101 - 7 RALEIGH, 1

SD2.1A

BL

EXTERIOR SHEARWALL ABOVE

FASTEN LAST (2) DECK JOISTS— TO LEDGER W SIMPSON H3 CLIPS, NAILED TO TOP OF LEDGER & SIDE OF JOIST (TYP.)

DECK JOISTS W/-

HANGERS (TYP.)

(SEE PLANS)

2x LEDGER-(FASTENED PER PLAN)

- 2x EXTERIOR WALL

RIBBON w/ 3"x0.120" NAILS @ 6" OC

2x EXTERIOR WALL

(SEE PLANS)

DECK LEDGER CONNECTION DETAIL

SCALE 9/4*-11*-0*

FASTEN SOLE PLATE TO

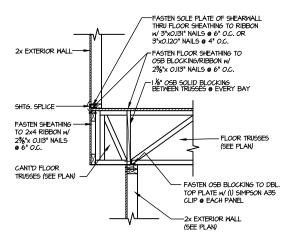
-RIBBON FASTENED TO DBL.

FLOOR TRUSSES

-SEE PLAN

TOP PLATE w/ 3"XO.120" TOENAILS @ 6" O.C.

(SEE PLANS)



FASTEN TOP CHORD OF TRUSS TO TO EA.

STUD w/ (3) 31/4"x0.131" NAILS

2x EXTERIOR SHEAR WALL ABOVE

FASTEN SOLE PLATE TO

(SEE PLANS)

CHORD w/ 23/6"x0.113" NAILS 6 6" O.C.

-RIBBON FASTENED TO 2x

BEAM w/ 3"x0.131" TOENAILS @ 6" O.C.

-2x HEADER (SEE PLANS)

- ROOF TRUSS

(SEE PLANS)

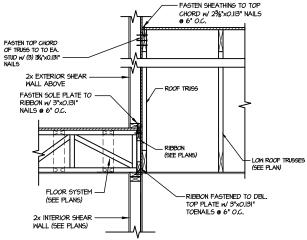
TYPICAL SHEAR TRANSFER DETAIL 6 BETWEEN FLOORS @ INTERIOR WALL

SHEAR TRANSFER DETAIL BETWEEN (2) FLOORS @ CANT'D EXT. WALL

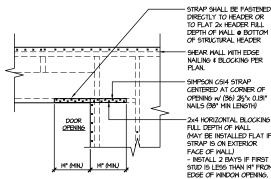
STRAP SHALL BE FASTENED DIRECTLY TO HEADER OR TO FLAT 2x HEADER FULL DEPTH OF WALL @ BOTTON OF STRUCTURAL HEADER SHEAR WALL WITH EDGE NAILING & BLOCKING PER PLAN. SIMPSON CSI4 STRAP CENTERED AT CORNER OF OPENING w/ (36) 2½"x 0.131" NAILS (38" MIN LENGTH) 2x4 HORIZONTAL BLOCKING DOOR OPENING FULL DEPTH OF WALL MAY BE INSTALLED FLAT IF STRAP IS ON EXTERIOR FACE OF WALL) - INSTALL 2 BAYS IF FIRST 19" (MIN.) | 19" (MIN.) STUD IS LESS THAN 14" FROM EDGE OF WINDOW OPENING.

- STRAPS MAY BE INSTALLED ON EXTERIOR OR INTERIOR FACE OF WALL WHEN INSTALLED ON THE EXTERIOR FACE OF THE WALL, STRAPS TO BE

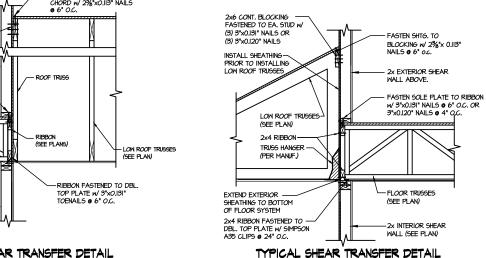
TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION







NETALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR DOOR NAILING REQUIRED ONLY @ OPENINGS WHERE SPECIFIED ON PLAN



BETWEEN FLOORS @ INTERIOR WALL



al: 8/30/23

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TH CAR PROFESSION.

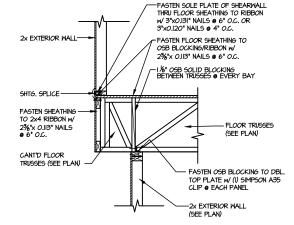
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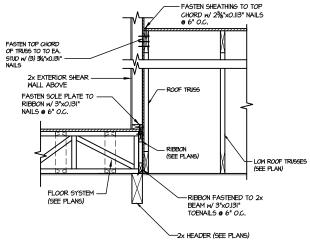
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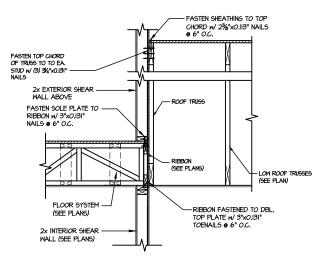
TOWNSEND ' POND Ŋ RAMIN AKE LOT 101 - 7 RALEIGH, 1 BL

SD2.1B

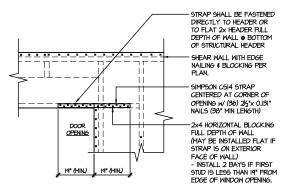


SHEAR TRANSFER DETAIL BETWEEN 2 FLOORS @ CANT'D EXT. WALL



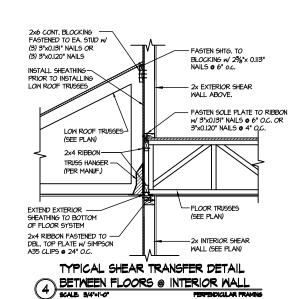


TYPICAL SHEAR TRANSFER DETAIL 3 BETWEEN FLOORS @ INTERIOR WALL



- STRAPS MAY BE INSTALLED ON EXTERIOR OR INTERIOR FACE OF WALL WHEN INSTALLED ON THE EXTERIOR FACE OF THE MALL, STRAPS TO BE INSTALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR DOOR NAILING
- . REQUIRED ONLY @ OPENINGS WHERE SPECIFIED ON PLAN

TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION
SCALE NTS



M&K project number: 126-2306

MULHERN+KULP HESIDENTIAL STRUCTURAL ENGINEERING

al: 8/30/23

TH CAR

P ROFESSION

ENGINEE

OSEPH T. RI

OR

JTR frawn by: BGL ssue date: 08-25-2

REVISIONS

initial:

POND

TOWNSEND ' BLAKE I LOT 101 - TC RALEIGH, NO

SD2.1C

DECK JOISTS W/ (SEE PLANS) 2x EXTERIOR WALL 2x LEDGER-(FASTENED PER PLAN) DECK LEDGER CONNECTION DETAIL

SCALE 944-1-0*

FASTEN LAST (2) DECK JOISTS-

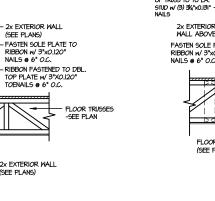
TO LEDGER W SIMPSON HS CLIPS, NAILED TO TOP OF LEDGER & SIDE OF JOIST (TYP.)

- 2× EXTERIOR WALL

RIBBON w/ 3"x0.120" NAILS @ 6" O.C.

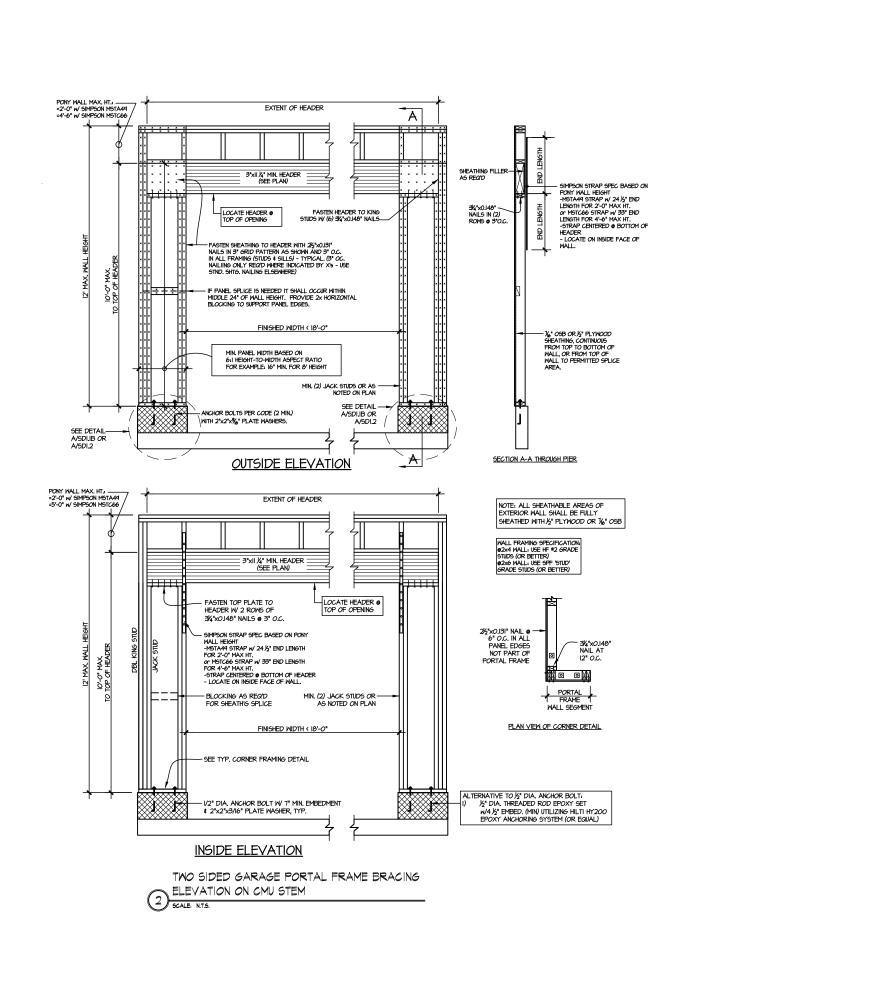
TOP PLATE w/ 3"XO.120" TOENAILS @ 6" O.C.

(SEE PLANS)



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

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- Blake Pond - Lot 101 - Structurals DATE: 8/30/2023 3:57 PM

FRAMING DETAILS
BLAKE POND
LOT 101 - TOWNSEND 4
RALEIGH, NC

eal: 8/30/23

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RESIDENTIAL STRUCTURAL ENGINEERING

1&K project number: 126-2306

drawn by:

REVISIONS:

JTR

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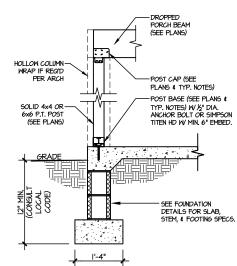
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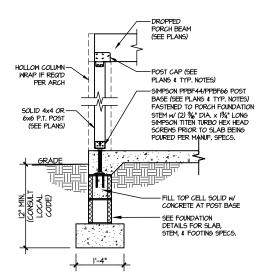
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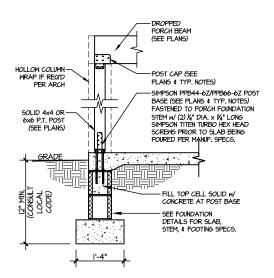
SD2.2



TYPICAL PORCH POST CONNECTION 3 DETAIL INSTALLED AFTER SLAB POUR CRANLSPACE FOUNDATION



TYPICAL PORCH POST CONNECTION DETAIL INSTALLED PRIOR TO SLAB POUR
SCALE: NONE CRANLSPACE FOUNDATION



TYPICAL PORCH POST CONNECTION B DETAIL INSTALLED PRIOR TO SLAB POUR SCALE: NONE CRANLSPACE FOINDATION

M&K project number 126-2306

drawn by:

REVISIONS:

JTR

BGL

initial:

issue date: 08-25-23

BLAKE POND Lot 101 - Townsend 4 Raleigh, nc

SD3.0

DESCRIPTION OF BLDG, ELEMENT	3"x0.131" NAILS	3"x0.120" NAILS
JOIST TO SOLE PLATE	(3) TOENAILS	(3) TOENAILS*
SOLE PLATE TO JOIST/BLK'G.	(3) NAILS 🛭 4" o.c.	(3) NAILS • 4" o.c.
STUD TO SOLE PLATE	(2) TOENAILS	(3) TOENAILS*
TOP OR SOLE PLATE TO STUD	(2) NAILS	(3) NAILS
RIM TO TOP PLATE	TOENAILS @ 8" O.C.	TOENAILS @ 6" o.c.*
BLK'G. BTWN. JOISTS TO TOP PL.	(3) TOENAILS	(3) TOENAILS*
DOUBLE STUD	NAILS @ 24" O.C.	NAILS @ 16" o.c.
DOUBLE TOP PLATE	NAILS @ 24" o.c.	NAILS @ 16" o.c.
DOUBLE TOP PLATE LAP SPLICE	(9) NAILS IN LAPPED AREA	(II) NAILS IN LAPPED AREA
TOP PLATE LAP @ CORNERS €	(2) NAILS	(2) NAILS
INTERSECTING WALLS		

2½"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. (ONLY ACCEPTABLE WHERE * ARE SHOWN)

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING FLEMEN N CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO: FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY OR WARRANTY TOLERANCES.

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DIFFERENTIAL DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN

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

- A ROOF TRUSSES:
- I/4" DEAD LOAD FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS
- I/8" DEAD LOAD FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS: LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD

LOAD. (NOT DIFFERENTIAL DEFLECTION)

GENERAL STRUCTURAL NOTES

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

DESIGN LOADS

ROOF DEAD = 7 PSF T.C., IO PSF B.C.

LOAD DURATION FACTOR = 1.25

LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (1-JOISTS & SOLID SAWN) IO PSF T.C., 5 PSF B.C. (TRUSSES) (ADD'L IO PSF @ TILE)

LATERAL 120 MPH, EXPOSURE B. SEISMIC A/B.

2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

GENERAL FRAMING

- ALL TYP, NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE OR ON PLANS, ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- REFER TO FASTENING SCHEDULE TABLE R602.3(I) FOR ALL CONNECTIONS, TYP, U.N.O.
- EXT. & INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS, 0 16" O.C. SPF OR SYP "STUD" GRADE LUMBER, OR BETTER, U.N.O. • WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRICE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SYP) LUMBER, OR BETTER (KILN-DRIED). ALL HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS & SIZED ACCORDINGLY. CODE TABLES HAVE NOT BEEN USED.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED @ 16" O.C. (MAX. UN.O.) • HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- (1)2x4/6 FLAT @ OPENINGS UP TO 4'. (2)2x4/6 FLAT UP TO 8'
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING
 - "LSL" Fb=2325 psi: Fv=3I0 psi: E=I,55xI0^6 psi • 'LVL' - Fb=2600 psi; Fv=285 psi; E=2.0xI0^6 psi
- 'PSL' FB=2900 PSI; FV=290 PSI; E=2.0XI0^6 PSI
- M+K SHALL BE FULLY INDEMNIFIED FOR ANY AND ALL ISSUES OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO M+K FOR STRUCTURAL REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.
- FOR 2 & 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS 1/4"x3/5" SIMPSON SDS SCREMS (OR 3½" TRUSSLOK SCREMS) © 16" O/C. USE A MINIMUM OF 3 ROMS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE SOLID 3 K" OR 5 K" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8 MEMBERS.
- FOR 4 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROMS OF $\frac{1}{4}$ "x6" SIMPSON SDS SCREWS (OR 6 $\frac{3}{4}$ " TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER, APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREWS 2" FROM EDGE, A SOLID 7" BEAM IS ACCEPTABLE
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x KING STUD, MINIMUM.
- THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O.,
- ALL MULTI-PLY STUDS TO BE FASTENED TOGETHER w/ 3"X0.131" NAILS @ 24" O.C. (MIN.), EACH PLY.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND,/BEARING. BLOCKING TO MATCH POST ABOVE.
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS WITH P.A.F.'s ('HILTI' X-CF PINS OR EQUAL) @ 16" O.C. STAGGERED, OR I/2" DIA. BOLTS @ 48" O.C. STAGGERED.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BCS2-2/4 CAP & ABM44Z BASE, U.N.O.

FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES MARBLE FLOORS - CONTACT M&K FOR MARBLE FLOOR DESIGNS)
- AT I-JOIST FLOORS, PROVIDE I I/8" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C. EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W GLUE AND
- 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES € @ 12"o.c. FIELD.
- 2 3 × 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. FIELD. - 2 3" x 0,113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD.
- #6 x 2" MIN. SCREWS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.

ROOF FRAMING

- BAY WINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.
- FASTEN FACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H2.5T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H2.5T CLIPS AT 2-PLY GIRDER TRUSSES (3) H2 5T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I-08 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (MAX 7' SPAN) W 2x4 LEDGER FASTENED TO
 - RIM BOARD w/ (2) 3"x0.131" NAILS @ 16" O.C. MAX. (1-JOISTS) - TRUSS VERTICALS W/ (3) 3"x0.131" NAILS @ 19.2" O.C. MAX. (FLOOR TRUSSES)
- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
- W/ 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES € @ 12" O.C. FIELD. - w/ $2\frac{3}{8}$ " x 0.120" NAILS @ 4"o.c. @ PANEL EDGES & @ 8" O.C. FIELD.
- W/ 2 3" x 0.113" NAILS @ 3"O.C. @ PANEL EDGES & @ 6" O.C. FIELD.

VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L3"x3"x¼"
	3 FT. MAX	L3"x3"x¼"
6'-0"	I2 FT. MAX	L4"x3"x¼"
	20 FT. MAX	L5'x3½'x¾"
8'-0"	3 FT. MAX	L4"x4"x¼" "
<i>0-</i> 0	I2 FT. MAX	L5'x3½'x¾"
	l6 FT. MAX	L6"x3½"x%"
9'-6"	I2 FT. MAX	L6"x3½"x¾"
16'-0"	2 FT. MAX	L7"x4"x½" **
	3 FT. MAX	L8"x4"x½" **

34 PPORT 2 5% - 3 ½ VENEER W 40 pol MAXIMUM MEIGHT L HAVE 4* MIN. BEARING L NOT BE FASTENED BACK TO HEADER.

- I/O SHALL NOT BE PASTENDE PACK TO FEADER IN WALL #46°06. W/3° DIA. X 3'5'
 LONG LEE PASTENDE PACK TO DOD FEADER IN WALL #46°06. W/3° DIA. X 3'5'
 LONG LEE PASTENDE BE WINDERSCHALL ZUITED PACES.

 LONG LEE PASTENDE BE WINDERSCHALL ZUITED PACES.

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 WAY BE CUT IN THE FILED TOE BE 3'VINDE OWNET BE DEARNIG LEIGHT ONLY. THIS

 STO ALLOW FOR YEARY JUNIT FRINGHING.

 STO ALLOW FOR YEARY JUNIT FRINGHING.
- R QUEEN YENEER USE L4x3%". OR 3½" YENEER ONLY. SEE PLAN FOR VENEER SUPPORT IF VENEER < 3½" THICK.

SD2.I REFERS TO SD2.IA FOR

LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: 20 MPH WIND IN 2018 NCSBC:RO

(120 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10, AS PERMITTED BY R30113 OF THE 2018 NCSBC-RC OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST

THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC SECTION R802.II.I. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R60235& R80211

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W 2 3/8"x0.II3" NAILS @ 6" O.C. AT EDGES & ● 12" O.C. IN THE PANEL FIELD. TYP, U.N.C.
- HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1½" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES \$ @ 6" O.C IN FIELD.

BLOCKED PANEL EDGES

AT DESIGNATED AREAS - FASTEN SHEATHING w/ 2 36" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 34" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C IN FIELD. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE FASTENING.

3" O.C. EDGE NAILING

AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING w/8d NAILS @ 3" O.C. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED AND INSTALLED FULL HEIGHT OF SHEAR WALL OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING
- PRE-MANUFACTURED PANELIZED WALLS FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB SHEARWAI OR 3" O.C. OSB SHEARWALL.

► INDICATES HOLDOWN BELOW

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- FOOTING DESIGN 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2x4/6 SILL PLATES TO FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, I2" MAX, FROM PLATE ENDS - UTIL I7ING
- I/2" DIA. ANCHOR BOLTS 6'-0" O.C, 7" MIN. EMBEDMENT
- (CONC), 15" MIN, EMBEDMENT (CMU) SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONC)
- SIMPSON MAB23 ANCHOR STRAPS @ 2'-8" O.C. (CMU) (REFER TO DETAILS FOR IO' TALL WALL ANCHOR REQUIREMENTS)
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- BUILDER TO VERIEY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD, CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- BASEMENT INTERIOR BEARING WALLS & EXTERIOR WALK-OUT BASEMENT WALLS SHALL BE 2x6 € 16" O.C. SPF OR SYP, "STUD" GRADE OR BETTER.
- CONCRETE DESIGN BASED ON ACL 318 CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.: 4,000 psi: FOUNDATION WALLS 2,500 psi: FOOTINGS & INTERIOR SLABS ON GRADE 3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE
- BASEMENT FOUNDATION WALL DESIGN BASED ON:

60,000 psi

- · 9' OR 10' HEIGHT (AS NOTED ON PLANS) - TALLER WALLS MUST BE ENGINEERED.
- NOMINAL WIDTH (91/2" FOR 10" THICK WALL).
- BASEMENT WALL DESIGN IS BASED ON 60 PCF BACKFILL SOIL TYPE CLASSIFICATIONS (SC. ML-CL, OR CL).
- BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT, FND, WALL WITH 2" CLEAR, REINFORCEMENT SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS.
- FOR OPENINGS UP TO 36", PROVIDE MINIMUM 10" CONCRETE
- DEPTH OVER OPENING OR (3)2x10 w/ (2)2x6 JACK STUDS, U.N.O LARGER OPENINGS SHALL BE PER PLAN.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT
- ALL FOOTINGS SHALL BEAR AT LEAST 12" BELOW FINISH GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP
- . JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR
- 15'-0" O.C. (MAXIMUM) JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS
- POSSIBLE (I.I RATIO) WITH A MAXIMUM OF I.15 RATIO · CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL
- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (F'm=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER ACI 530 € 530.I.
- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 9 GA. MINIMUM @ 16" O.C.
- PROVIDE 2x8 x 16" LONG PT PLATE ON TOP OF ALL CRAWL SPACE PIERS. ALL PIERS SHALL BE GROUTED SOLID.
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL SPACE WALLS. FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE.
- BUILDER TO VERIFY THAT MODEL HAS BEEN ADEQUATELY TREATED BY A LICENSED AND BONDED PEST CONTROL COMPANY FOR SUBTERRANEAN TERMITES, METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY.

HOLD-DOWN SCHEDULE

DIMENSIONS BY OTHERS, BUILDER TO VERIFY.

SYMBOL	SPECIFICATION
► HD-I	SIMPSON HTT4 HOLD-DOWN *
► HD-2	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.) (PRE-BENT MSTC66 ALT. WHEN SPECIFIED)
▶ HD-3	SIMPSON STHD14/14RJ HOLD-DOWN

ALTERNATIVE TO SSTB24 ANCHOR BOLT SPECIFICATION: UTILIZE SIMPSON "SET" EPOXY SYSTEM TO FASTEN %" DIA. THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF, RECOMMENDATIONS. DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION

a 8/30/23 CAR PROFESSION, O. MINE SEPHT. R



I&K project numbe 126-2306

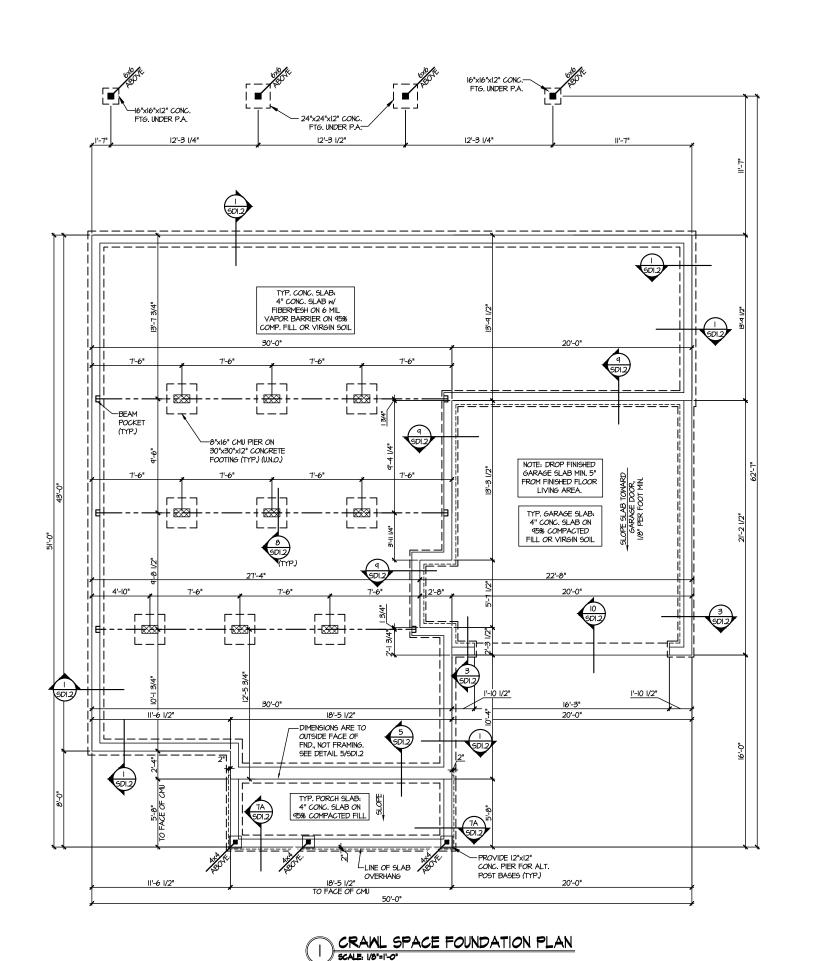
oject mgr: **JTR** rawn by: BGI sue date: 08-25-2

REVISIONS

initial:



OWNSEND Ή \checkmark BL. LOT RAL



H CAR SENGINEE MEPH T. R MULHERN+KUL
RESIDENTIAL STRUCTURAL ENGINEERI

^{2al:} 8/30/23

M&K project number: 126-2306

JTR drawn by: BGL issue date: 08-25-2

REVISIONS:

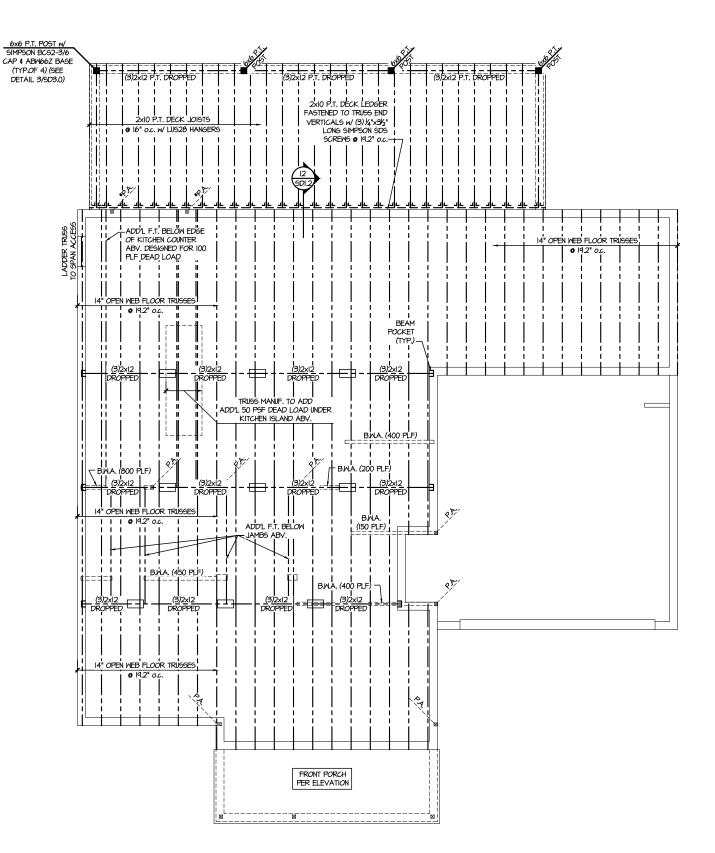
initial:

BLAKE POND LOT 101 - TOWNSEND 4 RALEIGH, NC OUNDATION

S1.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

- IIIII INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- BEAM / HEADER
- = = INDICATES SHEAR WALL & EXTENT
- EXTENT OF OVERFRAMING
- JL METAL HANGER
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP.
 REFER TO SCHEDULE.



ENGINEERED BEAM MATERIAL SCHEDULE BEAM LVL OPTION FLITCH OPTION STEEL OPTION 2)2xI0 + (I) ¼"xII¼" STEEI FLITCH PLATE - H 001 (2)134"×914" - H 3½"x9¼" - н (2)134"×9½" - F N/A (2)2xl2 + (I) %"xl以" STEEL FLITCH PLATES - F 002 (2)|%"x|4" - F 3%"xI4" - F (3)13/4"×14" - F WI2xI4 003 (3)2xl2 + (2) %"xll"," STEEL FLITCH PLATES -(3)13/4"x18" - FT 51/4"x18" - FT WI2x26 -(2)2xi2 + (i) i"xil¼" steel flitch plates - f 004 (2)134"x18" - FT 3½"xl8" - FT N/A (2)2xl0 + (1) 以"xl以" STEEL FLITCH PLATE - F 005 (2)13/4"x14" - F 3½"xl4" - F (2)13/4"x14" -N/A (2)2xl2 + (I) %"xlK;" STEEL FLITCH PLATES - F 006 (2)|3/4"x|4" - F 3½"xl4" - F N/A N/A (3)2x12 + (2) ¼"x11¼" STEEL FLITCH PLATES - F 001 (3)13/4"×14" - F 5¼"xl4" - F (4)1¾"x14" -WI2xI4 - F (2)13/4"×14" - F 3½"xl4" - F (3)13/4"×14" - F 009 (2)|3/"v|4" - F 3½"xl4" - F N/A N/A WA (2)2xI0 + (I) ¼"xII¼" STEEL FLITCH PLATE - H 010 N/Α (2)13/4"x91/4" - H 31/2"x91/4" - H (2)134"×915" - H (2)2×10 + (1) ¼"xI¼" STEEL FLITCH PLATE - H NΑ (2)13/4"x9/4" - H 31/3"x91/4" - H (2)13/4"x91/5" - H 012 N/A NΑ N/A N/A 013 N/A N/A (3)134"x914" - H (2)134"×714" - H

BEAM NOTATION: - "F" INDICATES FLUSH BEAM - "FT" INDICATES FLUSH TOP BEAM - "FB" INDICATES FLUSH BOTTOM BEAM

- "D" INDICATES DROPPED BEAM
- "H" INDICATES DROPPED OPENING HEADER
REFER TO DETAIL D/SD2.0 FOR TYPICAL FLITCH BEAM CONNECTIONS

REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS FOR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN

PLATES IN SUCCESSION W (2) 3"X0.120" NAILS @ 8" O.C.

FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS • 8" O.C.

** 8/30/23 Walter Barre CAR ENGINEE SEPH T. RI

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING



M&K project number: 126-2306

JTR frawn by: BGL ssue date: 08-25-2

REVISIONS:

initial:

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TOWNSEND A AKE POND OR BLAKE LOT 101 - T RALEIGH, 1

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

SD2, REFERS TO SD2, IA FOR LVL/PSL/LSL BEAMS OR SD2.IB

FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

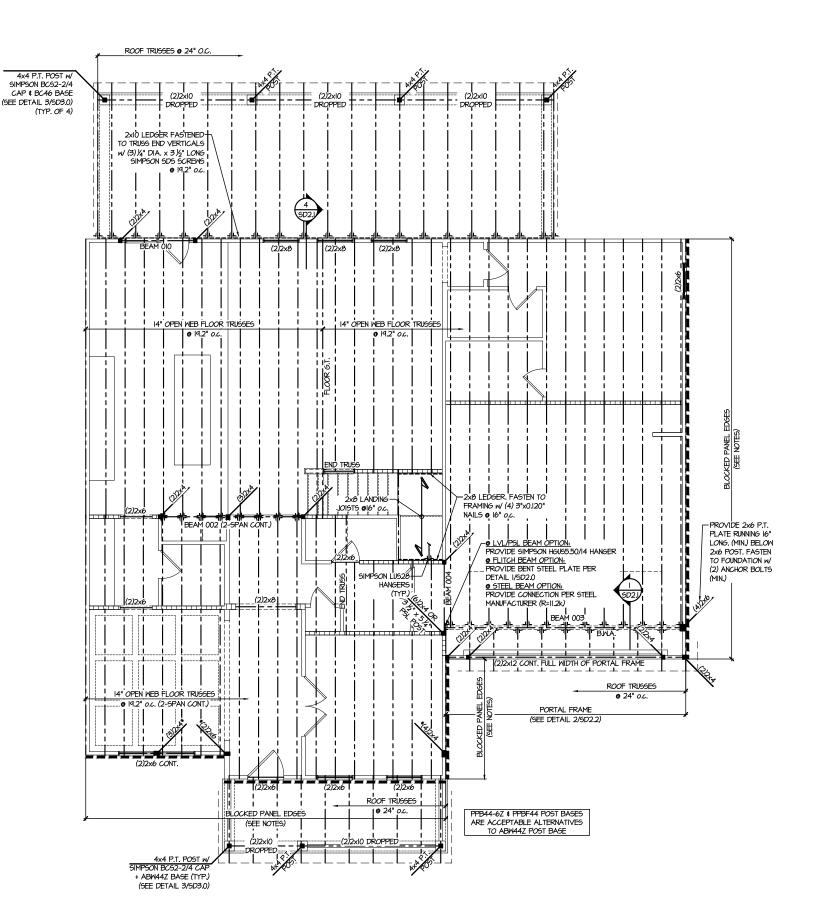
- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- BEAM / HEADER
- = INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING

JL METAL HANGER

* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

IST FLOOR FRAMING PLAN



2ND FLOOR FRAMING PLAN

ENGINEERED BEAM MATERIAL SCHEDULE BEAM NUMBER LVL OPTION FLITCH OPTION STEEL OPTION 2)2xI0 + (I) ¼"xII¼" STEEI FLITCH PLATE - H 001 (2)134"×914" - H 3½"x9¼" - н (2)134"×9½" - F N/A (2)2xl2 + (I) %"xl以" STEEL FLITCH PLATES - F 002 (2)|%"x|4" - F 3%"xI4" - F (3)|%"x|4" - F WI2xI4 003 (3)2xl2 + (2) 5/4"xll4" STEEL FLITCH PLATES -(3)13/4"x18" - FT 51/4"x18" - FT WI2x26 -(2)2xi2 + (i) i"xil¼" steel flitch plates - f 004 (2)134"x18" - FT 3½"xl8" - FT N/A (2)2xl0 + (1) 以"xl以" STEEL FLITCH PLATE - F 005 (2)13/4"x14" - F 3½"xl4" - F (2)13/4"x14" -N/A (2)2xl2 + (I) %"xlK;" STEEL FLITCH PLATES - F 006 (2)|3/4"x|4" - F 3½"xl4" - F N/A N/A (3)2x12 + (2) ¼"x11¼" STEEL FLITCH PLATES - F 001 (3)13/4"×14" - F 5¼"xl4" - F (4)1¾"x14" -WI2xI4 - F (2)13/4"x14" - F 3½"xl4" - F (3)13/4"×14" - F 009 (2)|3/"v|4" - F 3½"xl4" - F N/A N/A WA (2)2xI0 + (I) ¼"xII¼" STEEL FLITCH PLATE - H 010 N/Α (2)13/4"×91/4" - H 31/2"x914" - H (2)13/4"×91/2" - H (2)2×10 + (1) ¼"xI¼" STEEL FLITCH PLATE - H (2)13/4"x9/4" - H 3 K"x4K" - H (2)13/4"x91/5" - H NΑ 012 N/A NΑ N/A N/A 013 N/A N/Α (3)134"×914" - H (2)134"×714" - H

BEAM NOTATION: - "F" INDICATES FLUSH BEAM - "FT" INDICATES FLUSH TOP BEAM - "FB" INDICATES FLUSH BOTTOM BEAM

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FOR FLUSH BOTTOM BEAMS PROVIDE 2x STACKED PLATES ATOP BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS • 8" O.C.

William H SEPH T. RI

al: 8/30/23 CAR ENGINEE

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING



M&K project number: 126-2306

JTR frawn by: BGL ssue date: 08-25-2

REVISIONS

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TOWNSEND 4

BLAKE LOT 101 - T RALEIGH, 1 **S3**.

REFER TO SO.O FOR & SCHEDULES

SD2.I REFERS TO SD2.IA FOR LVL/PSL/LSL BEAMS OR SD2.IB FOR FLITCH BEAMS OR SD2.IC FOR STEEL BEAMS

LEGEND

- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE
- BEAM / HEADER
- = INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING
- JL METAL HANGER
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

TYPICAL STRUCTURAL NOTES

126-23061

JTR drawn by: issue date: 08-25-23

REVISIONS:

LEGEND

• == INDICATES SHEAR WALL & EXTENT EXTENT OF OVERFRAMING

* INDICATES POST ABOVE, PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

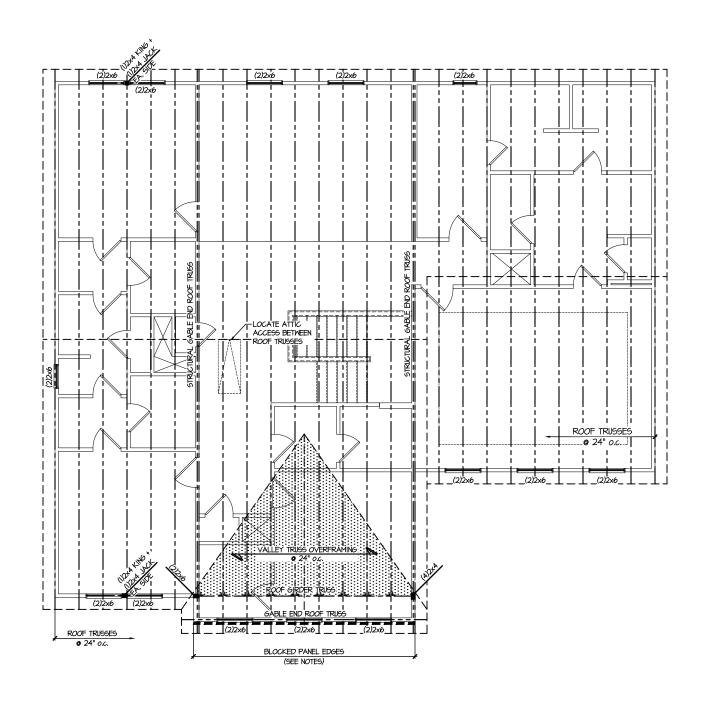
INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.

• IIIIIII INTERIOR BEARING WALL

● □===□ BEARING WALL ABOVE • --- BEAM / HEADER

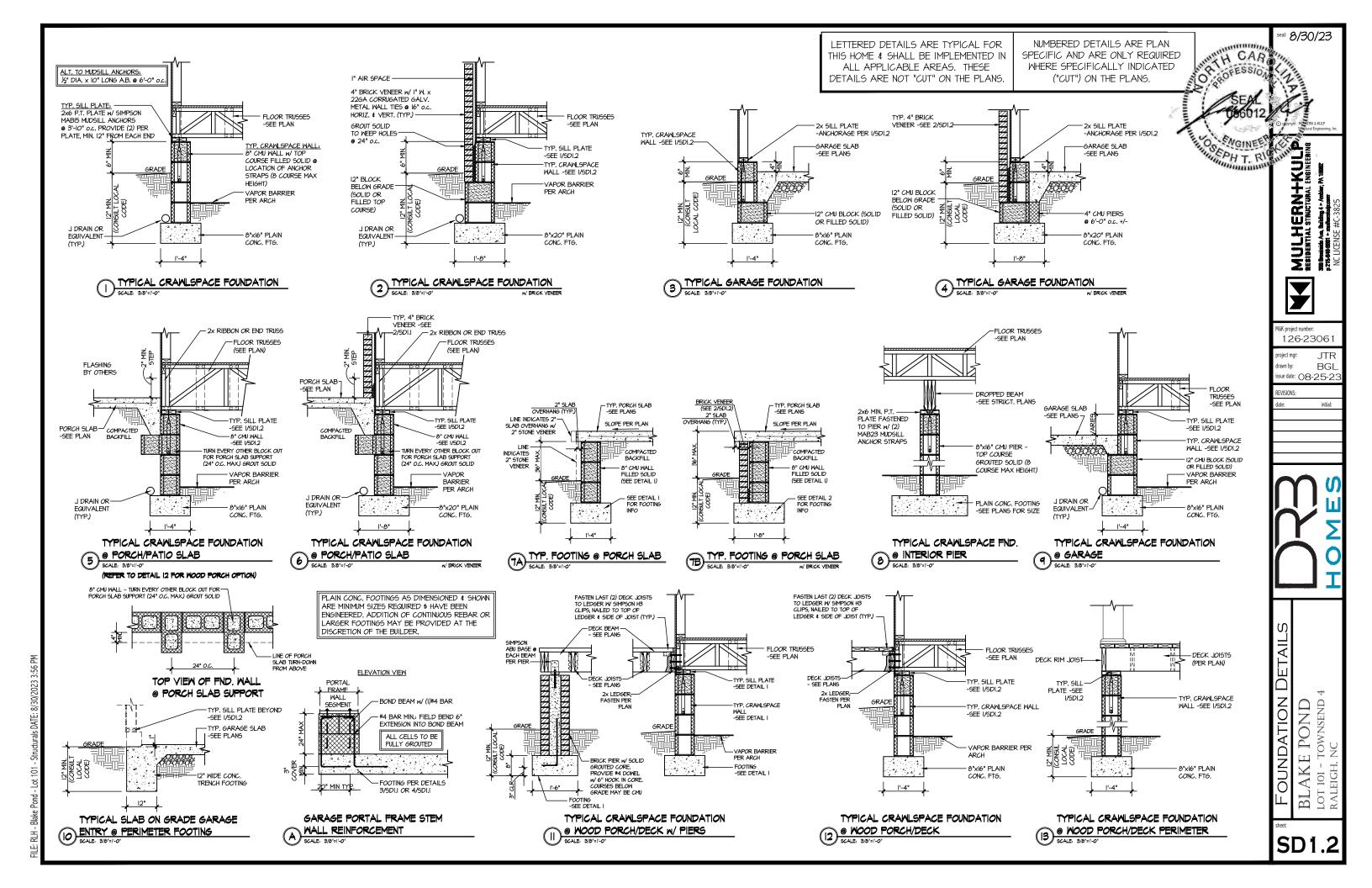
JL METAL HANGER

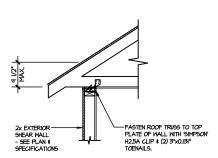
BLAKE POND Lot 101 - Townsend 4 Raleigh, nc ROOF





ROOF FRAMING PLAN





TYPICAL SHEAR

TRANSFER DETAIL @ ROOF HEEL HEIGHT LESS THAN 4½" NO BLOCKING REQ'D

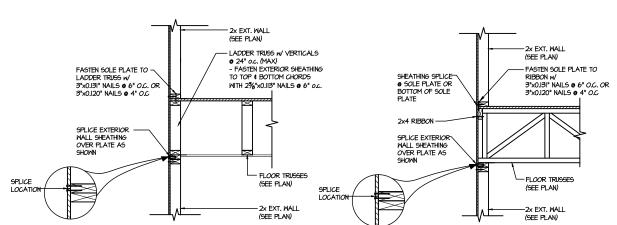
2xi0 (4 ½" - 12" HEEL) OR 2xi2 (12" - 16" HEEL) SOLID BLOCKING PANELS EVERY 3RD TRIBS BAY (12" OL. MAX) FASTEN EA. BLOCKING PANEL TO TOP PLATE w/ (4) 3"x0.13" TOENAILS -BLOCKING MUST FIT TIGHT BETWEEN TRUSSES. FASTEN EA. END OF BLOCKING TO TRUSS W(2) 3"X0.131" TOENAILS • TOP OF PANEL -Fasten Roof Trugs to top Plate of Wall With 'SIMPSON' H2.5A CLIP 2x Exterior— Shear Wall - See Plan & Specifications

TYPICAL SHEAR

TRANSFER DETAIL @ ROOF

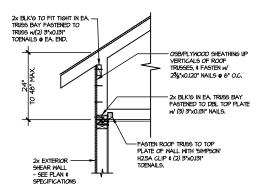
SCALE: 3/8"=1"-0" HEEL HEIGHT BETWEEN 9,

HEEL HEIGHT BETWEEN 9½" - 16" BLOCKING REQ'D



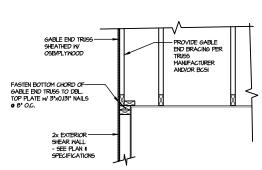
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL

TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL
SCALE 989*1-0" FEMPENDIAL AS FRAME

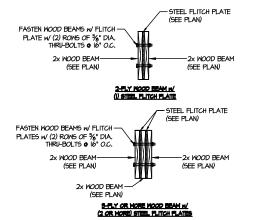


TYPICAL SHEAR TRANSFER

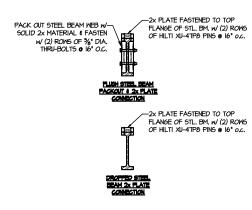
DETAIL @ RAISED HEEL TRUSS



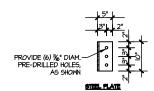
TYPICAL GABLE END DETAIL SOLLE: 3/8"=1"-0"

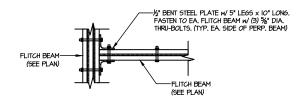


TYPICAL FLITCH BEAM CONNECTION DETAIL



TYPICAL STEEL BEAM CONNECTION DETAIL
SCALE 9/4*-1"-0"





TYPICAL FLITCH BEAM TO FLITCH BEAM CONNECTION DETAIL

> LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE

NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED WHERE SPECIFICALLY INDICATED ("CUT") ON THE PLANS.

DETAILS ARE NOT "CUT" ON THE PLANS.

G DET

POND TOWNSEND A

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** 8/30/23

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

M&K project number:

roject mgr:

drawn by:

REVISIONS

126-2306

issue date: 08-25-2

JTR

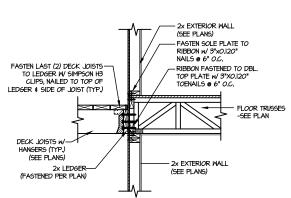
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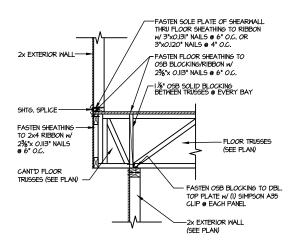
OSEPH T. RI

SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE

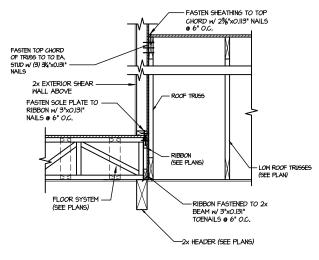


DECK LEDGER CONNECTION DETAIL

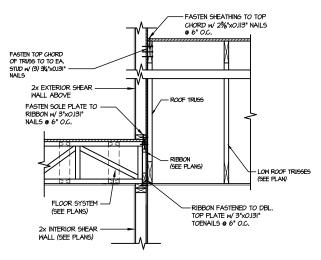
SCALE 944**-11-0*



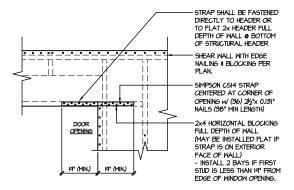
SHEAR TRANSFER DETAIL BETWEEN 2 FLOORS @ CANT'D EXT. WALL



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

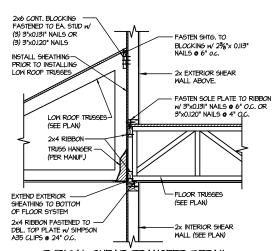


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



- STRAPS MAY BE INSTALLED ON EXTERIOR OR INTERIOR FACE OF WALL
- WHEN INSTALLED ON THE EXTERIOR FACE OF THE WALL, STRAPS TO BE INSTALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED IS "FROM EDGE TO ALLOW FOR DOOR NAILING REQUIRED ONLY @ OPENINGS WHERE SPECIFIED ON PLAN

TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION SCALE NTS



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



al: 8/30/23

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M&K project number: 126-2306

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OR.

TOWNSEND ' POND Ŋ AKE LOT 101 - 7 RALEIGH, 1

SD2.1A

BL

EXTERIOR SHEARWALL ABOVE

FASTEN LAST (2) DECK JOISTS— TO LEDGER W SIMPSON H3 CLIPS, NAILED TO TOP OF LEDGER & SIDE OF JOIST (TYP.)

DECK JOISTS W/-

HANGERS (TYP.)

(SEE PLANS)

2x LEDGER-(FASTENED PER PLAN)

- 2x EXTERIOR WALL

RIBBON w/ 3"x0.120" NAILS @ 6" OC

2x EXTERIOR WALL

(SEE PLANS)

DECK LEDGER CONNECTION DETAIL

SCALE 9/4*-11*-0*

FASTEN SOLE PLATE TO

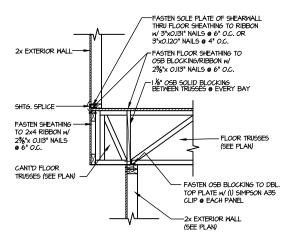
-RIBBON FASTENED TO DBL.

FLOOR TRUSSES

-SEE PLAN

TOP PLATE w/ 3"XO.120" TOENAILS @ 6" O.C.

(SEE PLANS)



FASTEN TOP CHORD OF TRUSS TO TO EA.

STUD w/ (3) 31/4"x0.131" NAILS

2x EXTERIOR SHEAR WALL ABOVE

FASTEN SOLE PLATE TO

(SEE PLANS)

CHORD w/ 23/6"x0.113" NAILS 6 6" O.C.

-RIBBON FASTENED TO 2x

BEAM w/ 3"x0.131" TOENAILS @ 6" O.C.

-2x HEADER (SEE PLANS)

- ROOF TRUSS

(SEE PLANS)

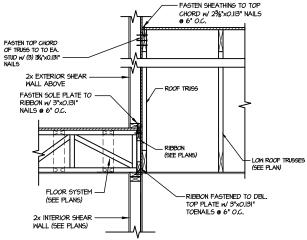
TYPICAL SHEAR TRANSFER DETAIL 6 BETWEEN FLOORS @ INTERIOR WALL

SHEAR TRANSFER DETAIL BETWEEN (2) FLOORS @ CANT'D EXT. WALL

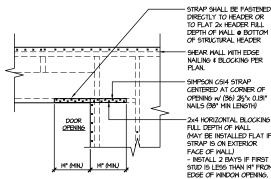
STRAP SHALL BE FASTENED DIRECTLY TO HEADER OR TO FLAT 2x HEADER FULL DEPTH OF WALL @ BOTTON OF STRUCTURAL HEADER SHEAR WALL WITH EDGE NAILING & BLOCKING PER PLAN. SIMPSON CSI4 STRAP CENTERED AT CORNER OF OPENING w/ (36) 2½"x 0.131" NAILS (38" MIN LENGTH) 2x4 HORIZONTAL BLOCKING DOOR OPENING FULL DEPTH OF WALL MAY BE INSTALLED FLAT IF STRAP IS ON EXTERIOR FACE OF WALL) - INSTALL 2 BAYS IF FIRST 19" (MIN.) | 19" (MIN.) STUD IS LESS THAN 14" FROM EDGE OF WINDOW OPENING.

- STRAPS MAY BE INSTALLED ON EXTERIOR OR INTERIOR FACE OF WALL WHEN INSTALLED ON THE EXTERIOR FACE OF THE WALL, STRAPS TO BE

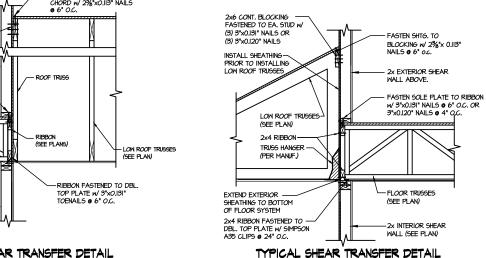
TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION







NETALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR DOOR NAILING REQUIRED ONLY @ OPENINGS WHERE SPECIFIED ON PLAN



BETWEEN FLOORS @ INTERIOR WALL



al: 8/30/23

MULHERN+KUL
RESIDENTIAL STRUCTURAL ENGINEERI

M&K project number:

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126-2306

ssue date: 08-25-2

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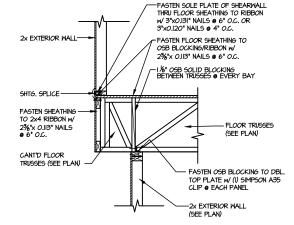
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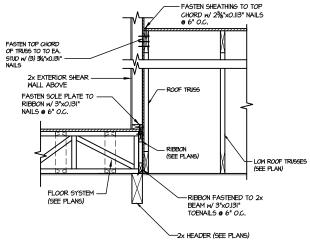
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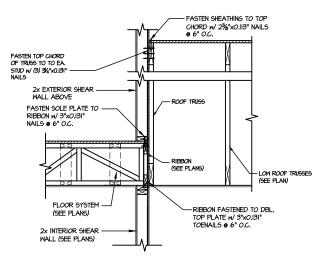
TOWNSEND ' POND Ŋ RAMIN AKE LOT 101 - 7 RALEIGH, 1 BL

SD2.1B

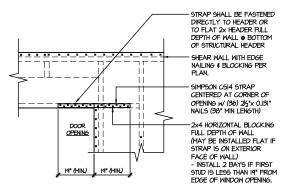


SHEAR TRANSFER DETAIL BETWEEN 2 FLOORS @ CANT'D EXT. WALL



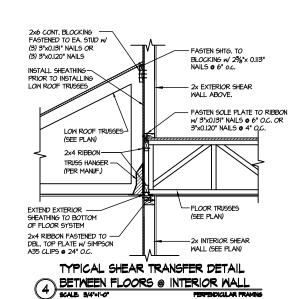


TYPICAL SHEAR TRANSFER DETAIL 3 BETWEEN FLOORS @ INTERIOR WALL



- STRAPS MAY BE INSTALLED ON EXTERIOR OR INTERIOR FACE OF WALL WHEN INSTALLED ON THE EXTERIOR FACE OF THE MALL, STRAPS TO BE INSTALLED ON EXTERIOR FACE OF SHTG. & MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR DOOR NAILING
- . REQUIRED ONLY @ OPENINGS WHERE SPECIFIED ON PLAN

TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION
SCALE NTS



M&K project number: 126-2306

MULHERN+KULP HESIDENTIAL STRUCTURAL ENGINEERING

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JTR frawn by: BGL ssue date: 08-25-2

REVISIONS

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TOWNSEND ' BLAKE I LOT 101 - TC RALEIGH, NO

SD2.1C

DECK JOISTS W/ (SEE PLANS) 2x EXTERIOR WALL 2x LEDGER-(FASTENED PER PLAN) DECK LEDGER CONNECTION DETAIL

SCALE 944-1-0*

FASTEN LAST (2) DECK JOISTS-

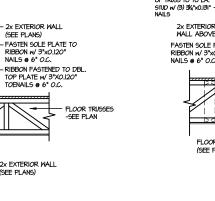
TO LEDGER W SIMPSON HS CLIPS, NAILED TO TOP OF LEDGER & SIDE OF JOIST (TYP.)

- 2× EXTERIOR WALL

RIBBON w/ 3"x0.120" NAILS @ 6" O.C.

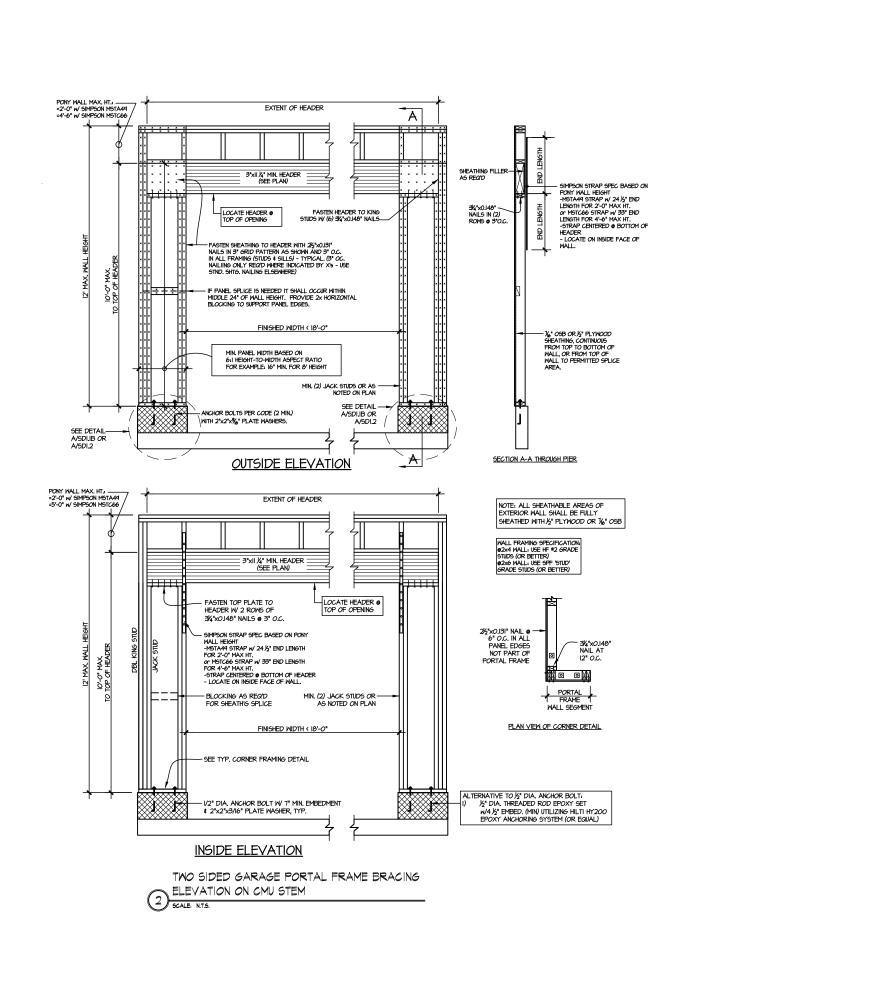
TOP PLATE w/ 3"XO.120" TOENAILS @ 6" O.C.

(SEE PLANS)



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

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- Blake Pond - Lot 101 - Structurals DATE: 8/30/2023 3:57 PM

FRAMING DETAILS
BLAKE POND
LOT 101 - TOWNSEND 4
RALEIGH, NC

eal: 8/30/23

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

1&K project number: 126-2306

drawn by:

REVISIONS:

JTR

BGL

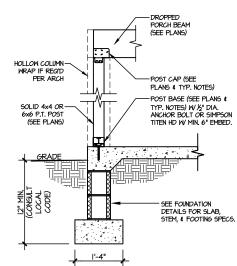
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issue date: 08-25-23

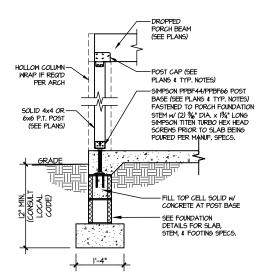
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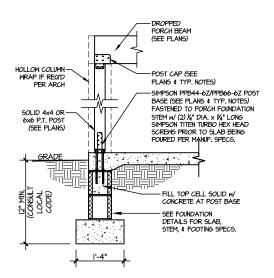
SD2.2



TYPICAL PORCH POST CONNECTION 3 DETAIL INSTALLED AFTER SLAB POUR CRANLSPACE FOUNDATION



TYPICAL PORCH POST CONNECTION DETAIL INSTALLED PRIOR TO SLAB POUR
SCALE: NONE CRANLSPACE FOUNDATION



TYPICAL PORCH POST CONNECTION B DETAIL INSTALLED PRIOR TO SLAB POUR SCALE: NONE CRANLSPACE FOINDATION

M&K project number 126-2306

drawn by:

REVISIONS:

JTR

BGL

initial:

issue date: 08-25-23

BLAKE POND Lot 101 - Townsend 4 Raleigh, nc

SD3.0