DRAYTON-RALE

RALEIGH - LOT 00.0120 THE FARM AT NEILL'S CREEK (MODEL# 2695) 76 WINDING CREEK DRIVE

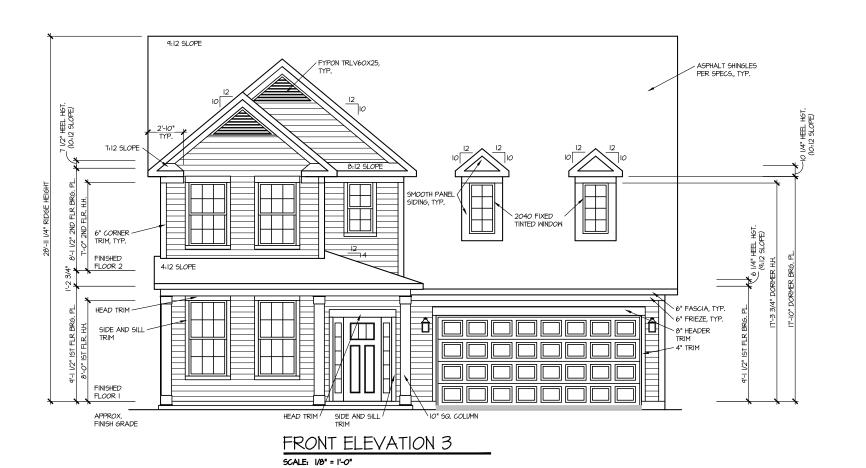
ELEVATION 3 - GR

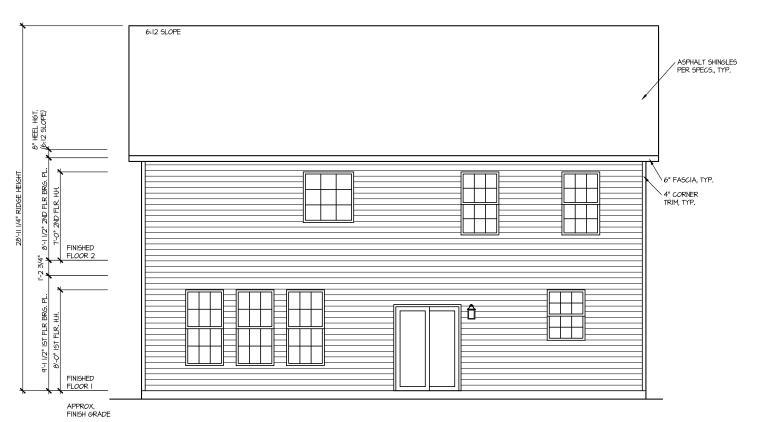


AREA CALCULATIONS			
		COVERED / UNHEATED	
ELEVATION 3	HEATED	UNHEATED	UNCOVERED
FIRST FLOOR	1266 SF		
GARAGE		547 SF	
FRONT PORCH - ELEVATION 3		152 SF	
OPTIONS			
SECOND FLOOR	1491 SF		
TOTAL	2757 SF	699 SF	

LOT	SPECIFIC	
		THE FARM AT NEILL'S CREEK
1	LOT 00.0120	DRAYTON REV. RALE 2 ELEVATION 3
2	ADDRESS	76 WINDING CREEK DR LILLINGTON, NC 27546
	7.007.200	70 MILDING GREEK BIX ELECTROPOLY, NO 27010
	1	
	1	
	1	
	1	

INDEX	





REAR ELEVATION 3

-E: Lot 00.0120.dwg DATE: 5/27/2022 10:32 AM

UPDATED DATE 02-17-2022

DRAWN BY:

PLAN NO. 2695

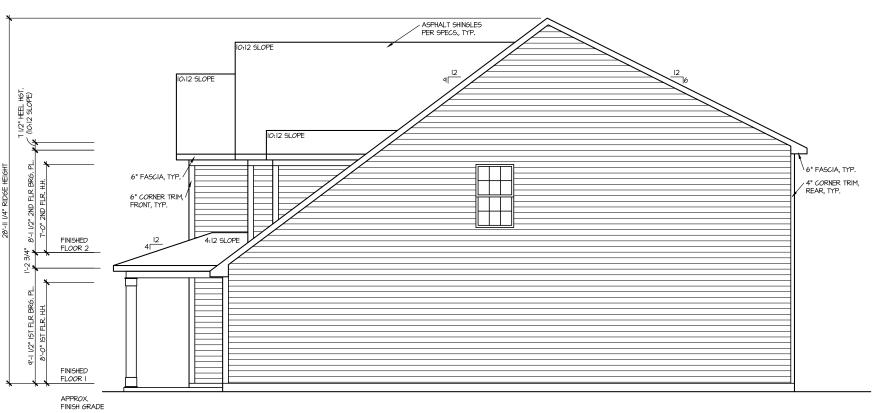
DATE: 05/27/2022

FRONT & REAR ELEVATIONS

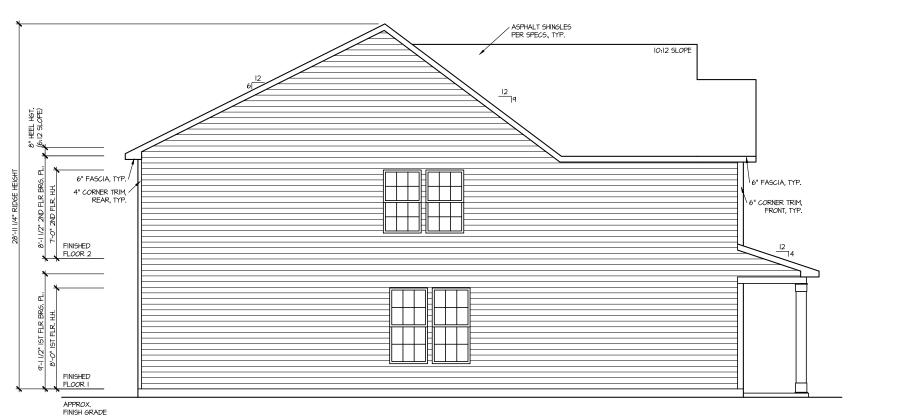
HOUSE NAME:

DRAYTON

DRAWING TITLE







LEFT ELEVATION 3

RIGHT & LEFT ELEVATIONS HOUSE NAME:

DRAYTON

DRAWING TITLE

UPDATED DATE 02-17-2022

DRAWN BY:

PLAN NO. 2695

DATE: 05/27/2022

ROOF VENTILATION CALCULATIONS:

ROOF AREA = 1836 SQ. FT.

OVERALL REQUIRED VENTILATION:

1 TO 150 = 12.24 SQ. FT.

1 TO 300 = 6.12 SQ. FT.

50-80% IN TOP THIRD = 3.06- 4.40 FT. (1 TO 300)

NET FREE AREA OF VENTED SOFFIT = 5.7 SQ. IN / LINEAR FT. NET FREE AREA OF RIDGE VENT = 18 SQ. IN/ LINEAR FT.

LOWER VENTING: (BOTTOM 2/3 RDS)

71 LINEAR FEET OF SOFFIT X 5.7 SQ. IN. = 3.05 SQ. FT.

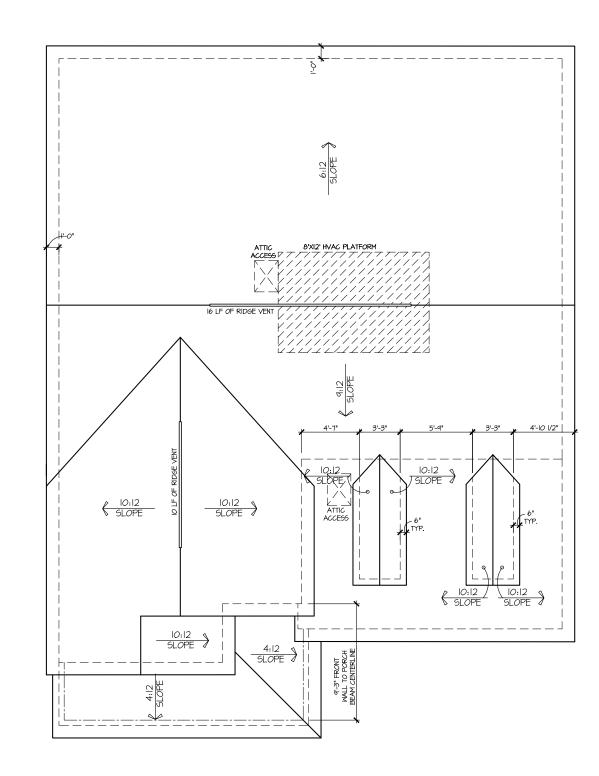
UPPER VENTING: (TOP I/3 RD)

26 LINEAR FEET OF RIDGE X IB SQ. IN = 3.25 SQ. FT.

3.25 SQ. FT. BETWEEN 50% - 80%

(I TO 300 ALLOWED)

TOTAL ROOF VENTILATION: 6.3 SQ. FT. > 6.12 SQ. FT. (RQ'D)



ROOF PLAN ELEV. 3

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

DRAWN BY: DATE: 05/27/2022

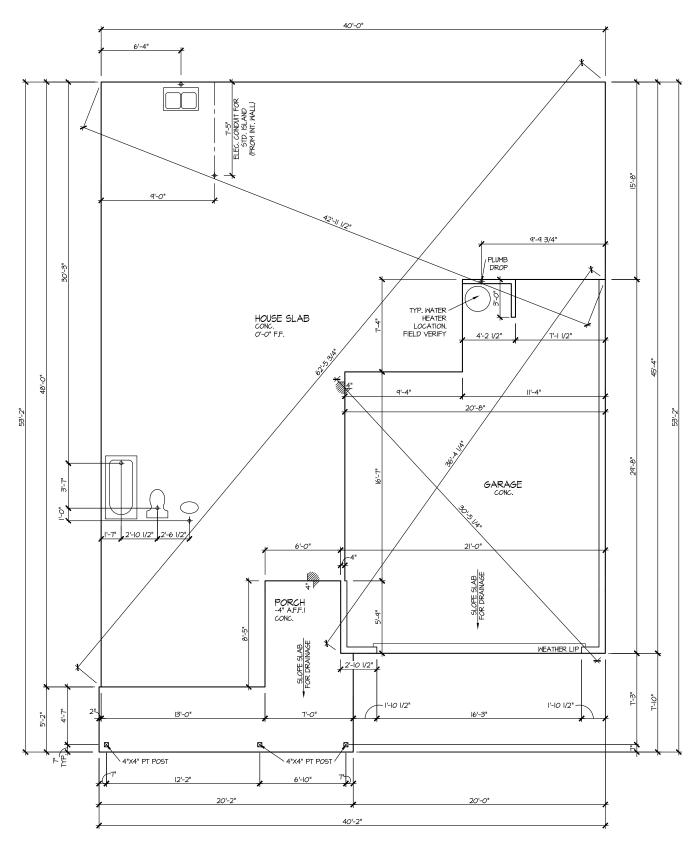
PLAN NO. 2695



HOUSE NAME:

DRAYTON

DRAWING TITLE PLAN



ELEVATION 3 SLAB PLAN SCALE: 1/8" = 1'-0"

FILE: Lot 00.0120.dwg DATE: 5/27/2022 10:32 AM

MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

BASTER PLAN INFORMATION

TO 2-08-2019

DATE: 03/-06-2019

DATE: 05/27/2022

PLAN NO. 2695

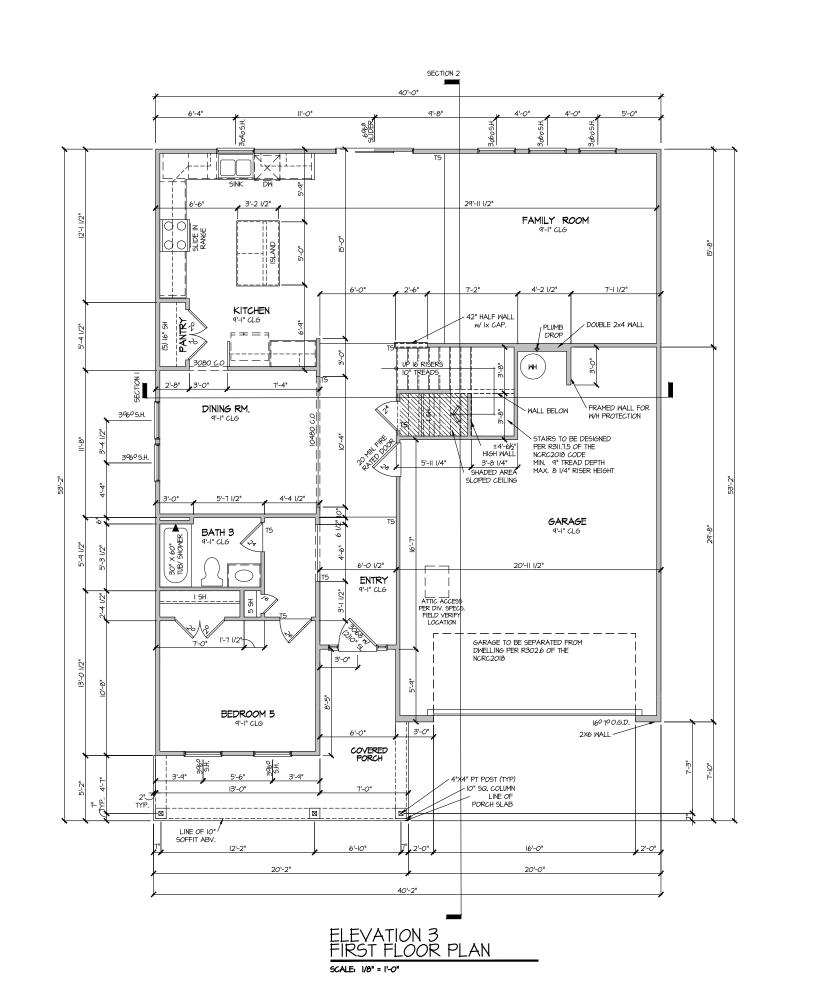


HOUSE NAME:

DRAYTON

DRAWING TITLE

SLAB PLAN



| MASTER PLAN INFORMATION | MASTER PLAN INFORMATION | REVISION | DATE | C2-RALE | C3-O6-2019 | C2-17-2022 | C3-O6-2019 | C2-17-2022 | C3-O6-2019 | C

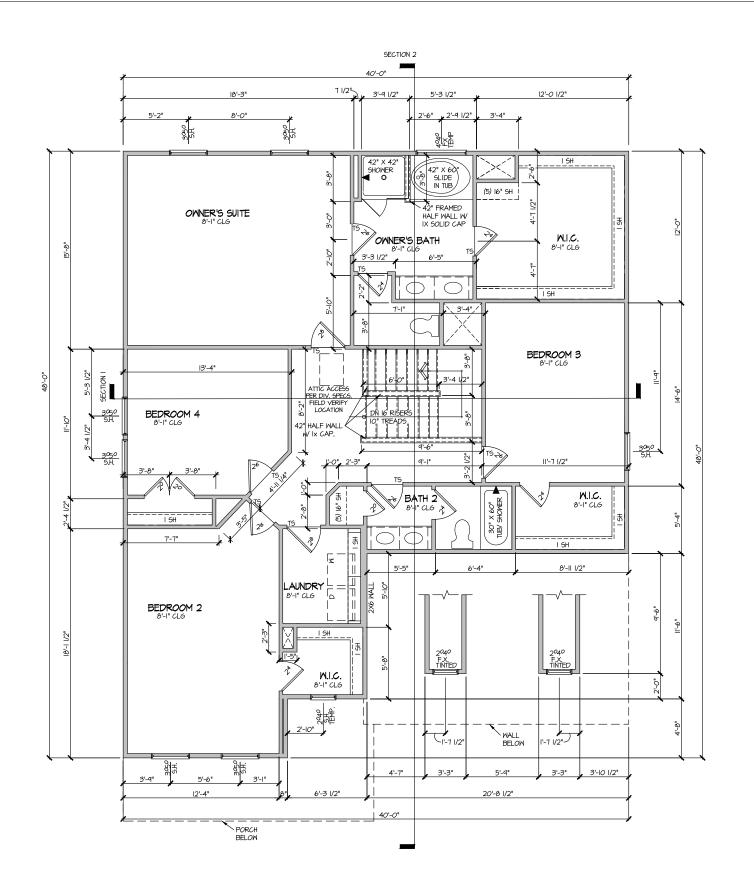
HOMES

HOUSE NAME:

DRAYTON

DRAWING TITLE

FIRST FLOOR PLAN



ELEVATION 3 SECOND FLOOR PLAN SCALE: 1/8" = 1'-0"

E: Lot 00.0120.dwg DATE: 5/27/2022 10:32 AM

MASTER PLAN INFORMATION

MASTER PLAN INFORMATION

REVISION

DATE:

02-75019

C695

UPDATED DATE 02-17-2022



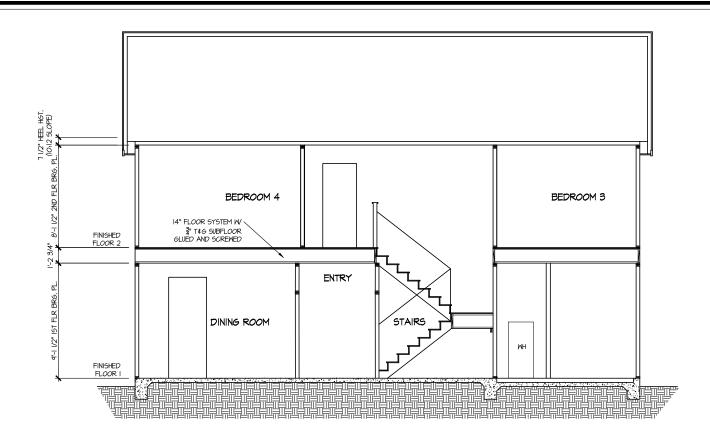
HOUSE NAME:

DRAYTON

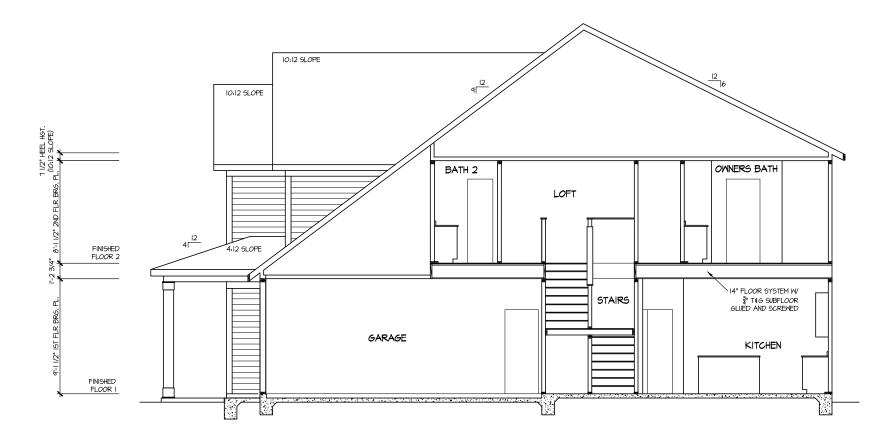
DRAWING TITLE

SECOND FLOOR PLAN

SHEET No. A3.2



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



SECTION 2 scale: 1/8" = 1'-0"

Lot 00.0120.dwg DATE: 5/27/2022 10:32 AM

HOMEN

DRAWN BY:

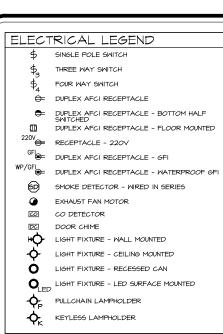
DATE: 05/27/2022 PLAN NO. 2695

HOUSE NAME:

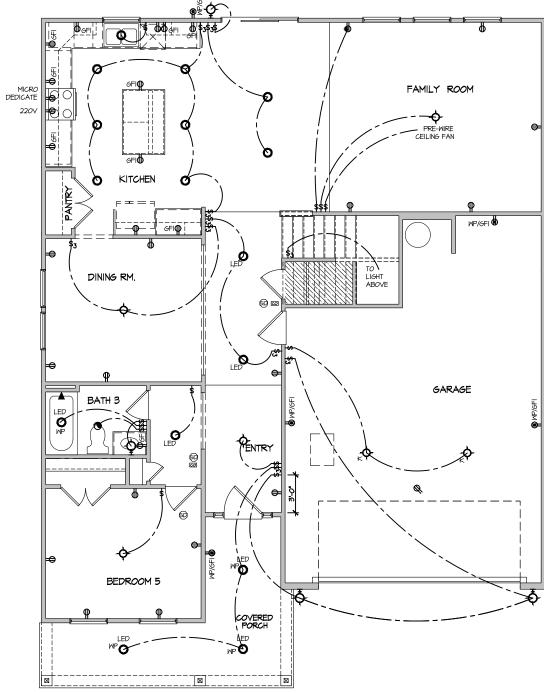
DRAYTON

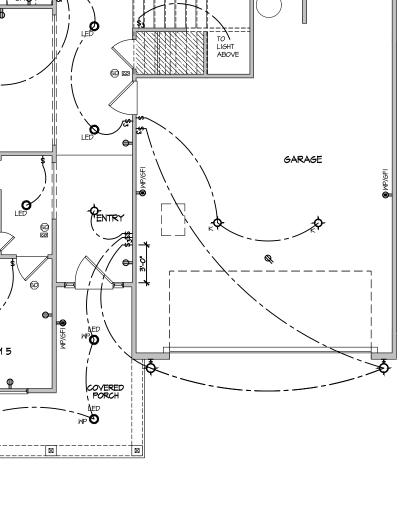
DRAWING TITLE

BUILDING SECTION



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.





DRAWN BY: DATE: 05/27/2022 PLAN NO. 2695

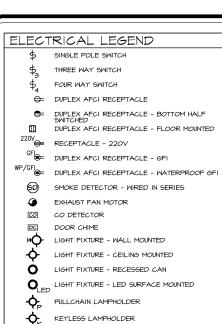


FLOOR ELECTRICAL

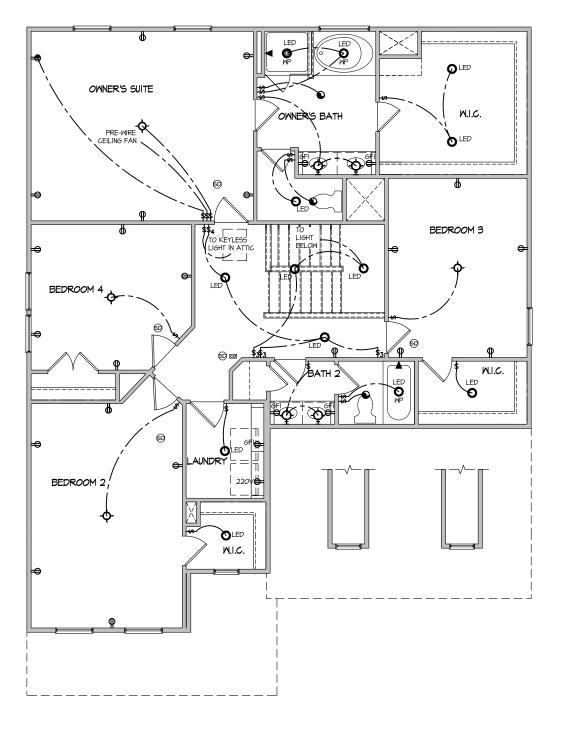
HOUSE NAME:

DRAYTON

DRAWING TITLE



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.



DRAWN BY:

DATE: 05/27/2022 PLAN NO. 2695

SECOND FLOOR ELECTRICAL

HOUSE NAME:

DRAYTON

DRAWING TITLE

SHEET No.

ELECTRICAL PLAN SECOND FLOOR - ELEV. 3 SCALE: 1/8" = 1'-0"

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.

PDESIGN LOADS.

ROOF DEAD = 7 PSF T.C., 10 PSF B.C. LOAD DURATION FACTOR = 1.25

> FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (I-JOISTS & SOLID SAWN) IO PSF T.C., 5 PSF B.C. (TRUSSES) (ADDI. 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 YALLS 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.
- PEFER TO FASTENING SCHEDULE TABLE R602.3(1) FOR ALL CONNECTIONS, TYP. U.N.O.
- EXT. \$ INT. BRG WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS • 16" O.C. SPF OR SYP "STUD" GRADE LUMBER, OR BETTER, UN.O. WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-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. JUNO.) . HEADERS IN NON-LOAD BEARING WALLS SHALL BE
- (I)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 TO MEET OR EXCEED THE FOLLOWING:
- LSL Flo=2325 psi, Fv=3i0 psi, E=1.55xi0^6 psi LVL' - Fb=2600 ρsi; Fv=285 ρsi; E=2.0xi0^6 ρsi
- FOR 2 \$ 3 PLY BEAMS OF EQUAL WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3'x0120' NAILS @ 8' O/C OR 2 ROWS 1/2/3/4' SIMPSON SDS SCREWS (OR 3½" TRUSSLOK SCREWS) • I6" O/C. USE A MINIMUM OF 3 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAIL S/SCREWS 2' FROM EDGE SOLID 3 K" OR 5 K' BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8
- FOR 4 PLY BEAMS OF FOUAL WIDTH FASTEN PLIES TOGETHER WITH 3 ROWS OF 1/2 x6" SIMPSON SDS SCREWS (OR 6 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 SCREW 2' FROM EDGE. A SOLID 7" BEAM IS ACCEPTABLE.
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD \$ (1)2x - 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 1/2" 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 MARRI E EL CORS - CONTACT MIK FOR MARRI E EL COR DESIGNS)
- AT I-JOIST FLOORS, PROVIDE I I/8" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, UN O. ■ I-JOIST/TRUSS SHOP DWGS, SHALL BE SUBMITTED TO ARCH. \$ ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY
- 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 ₹" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES \$ @ 8" O.C. FIELD. - 2 \$" x 0.113" NAII S @ 3' O.C. @ PANFI FDGFS & @ 6" O.C. IN FIFI D.

ROOF FRAMING

- BAY WINDOWS & SHED ROOFS (UP TO 6' SPAN) CAN BE 2x4 OR 2x6 RAFTERS & CEILING JOISTS @ 16/24" O.C.
- FASTEN EACH 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.
- ROOF TRUSS SHOP DWGS, SHALL BE SUBMITTED TO ARCH \$ ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVER
- FRECT AND INSTALL ROOF TRUSSES PER WICA & TPIS BOSI I-08 GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES w/2x4 LEDGER FASTENED TO FRAMING w/(2) 3'x0.131' NAILS @ 16' O.C. (MAX 1' SPAY
- 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 3 x 0 120 NAILS @ 4"0c. @ PANEL EDGES \$ @ 8 OC. FIELD.
- W 2 3 × 0.113' NAILS @ 3"06. @ PANEL EDGES \$ @ 6' O.C. FIELD.

LATERAL BRACING & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: 120 MPH WIND IN 2018 NCSBC:RC

(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 R301.1.3 OF THE 2018 NGSBG:RG, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2015 IRC IF THE PARAMETERS OF SECTION R602.12 COMPLY CCORDINGLY, 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 NGSBG:RC SECTION R802.II.I.I. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER

SECTIONS R602.3.54 R802.II. EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W 8d NAILS . 6' O.C. AT EDGES & P 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: 1 1/2 16 GA STAPLES (16 CROWN) @ 3" O.C. AT EDGES # @ 6" O.C IN FIELD

BLOCKED PANEL EDGES

AT DESIGNATED AREAS - FASTEN SHEATHING N/8d NAILS . 6' O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 13" IS 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

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.

NOTES

- 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 PLYMOOD W/ IOd NAILS 4' O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB SHEARWAL OR 3' O.C. OSB SHEARWALL.

INDICATES HOLDOWN BELOW

VENEER LINTEL SCHEDULE

(MAX)	ABOVE LINTEL	STEEL ANGLE SIZE
9-0*	20 FT. MAX	L31x31x/4"
	3 FT. MAX	L3'x3'x/4'
6-0	I2 FT. MAX	L4'x3'x/4'
	20 FT. MAX	L5 x5½ x%
8'-0 '	5 FT. MAX	L4'x4'x/4' *
8-0	I2 FT. MAX	L5 x3½ x¾
	I6 FT. MAX	L6'x5½'x¾'
4-6 °	I2 FT. MAX	L6 x5/2 x5/4
16'-0"	2 FT. MAX	L7'x4'x½' **
	3 FT, MAX	L8'x4'x/5' **

ICLE: SIPPORT 2 % - 3 ½" VENETR N/ 40 ppf MAXIMM MEIGHT. ALL HAVE 4" MIN. BEARING ALL HAVE 9" MIN. BEARING ALL NOT BE FASTENED BACK TO HEADER

- BY SHALL INOT BE FASTIBLED BACK TO FEADER IN SHALL SHAPE, WITH STATEMENT AND SHAPE TO SHAPE THE SHAPE TO SHAPE SHAPE AND SHAPE SHAPE

LEGEND

- IIIIIIIIII 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

2x4 NON-BEARING 2x6 NON-BEARING PARTITION WALL SPAN UP TO 3'-0" (1)2v4 FI AT (1)2x6 FLAT UP TO 6'-0 (2)2x4 (3)2x4 UP TO 8'-0" (2)2x6 (3)2x6

NON-BEARING HEADER SCHEDULE

NOTES:

ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED • 24' O.C. (MAX.)

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, 12" MAX. FROM PLATE ENDS - UTILIZING
 - (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 10' TALL WALL ANCHOR REQUIREMENTS)
 - ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W CONCRETE OR CMU SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- PULL DER TO VERIEY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W PRESERVATIVE-TREATED WOOD, CONTACT LIMBER & 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 ACI 318. CONCRETE SHALL ATTAIN
- THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.: 4,000 pai: FOUNDATION WALLS FOOTINGS & INTERIOR SLABS ON GRADE 2500 psi
- 3,000 osl ... GARAGE & EXTERIOR SLABS ON GRADE 60,000 psi
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
- . 9' OR 10' HEIGHT (AS NOTED ON PLANS) - TALLER WALLS MUST BE ENGINEERED
- NOMINAL WIDTH (9 ½" 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 BOMT FND WALL WITH 2" CLEAR REINFORCEMENT. SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS.
- FOR OPENINGS UP TO 36", PROVIDE MINIMUM IO' 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
- 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 (1:1 RATIO), WITH A MAXIMUM OF 1:15 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 (Fin=1500 PSI). MORTAR SHALL BE ASTM C270, TYPE 5. CMJ DESIGN PER ACI 530 \$ 530.1.
- 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, ASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY
- PUILDER TO VERIFY THAT MODEL HAS BEEN ADEQUATELY TREATED BY A LICENSED AND BONDED PEST CONTROL COMPANY I SUBTERRANEAN TERMITES. METHOD AND TYPE OF TREATMENT TO BE DETERMINED BY PEST CONTROL COMPANY

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELE SUPPORTING AND STABLE AFTER THE BULLDING IS 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 ELEMEN IN CONTACT WITH FLOOR FRAMING ARE LEVEL INCLUDING BUT NOT LIMITED TO FOUNDATIONS SLABS 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 -MULHERN & KULP CANNOT BE HELD RESPONSIBLE FOR ANY STRUCTURAL ISSUES RELATED TO ANY BUILDING COMPONENT IF COMPONENT SHOP DRAWINGS ARE NOT SUBMITTED TO MAK FOR REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION. -

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

- ROOF TRIESES I/4" DEAD LOAD
- B. FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS: 1/8" DEAD LOAD
- FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS. LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16**DEAD LOAD .- (NOT DIFFERENTIAL DEFLECTION)



E $\mathbf{\Sigma}^{\mathbf{I}}$

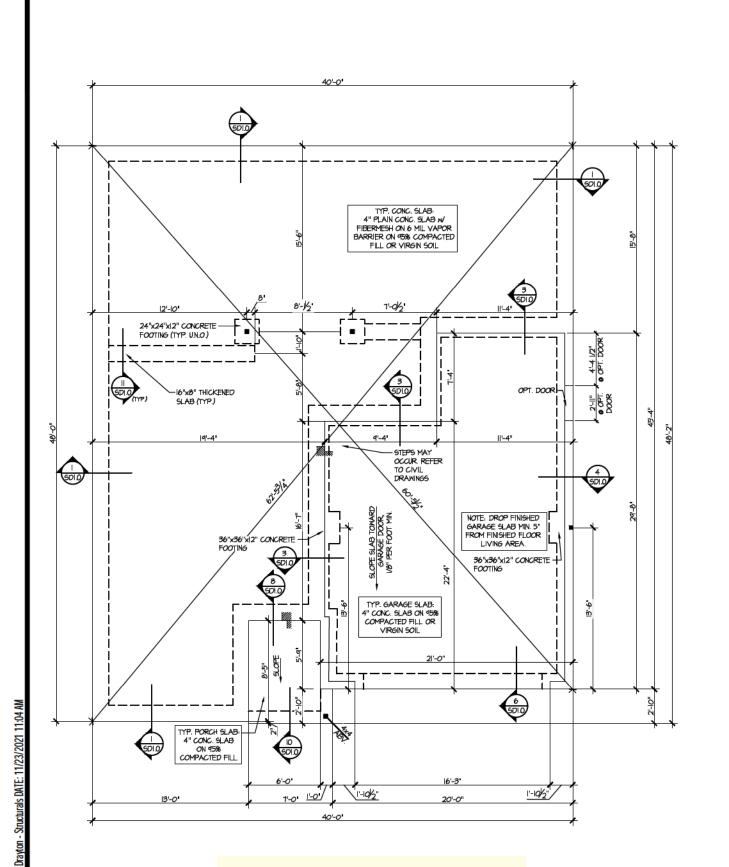
M&K project numbe 126-21020

JTR frawn by: ssue date: 06-12-2

REVISIONS: initial:



DATION TON DRAY RALEIGH.



LEGEND

• IIIIIII 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.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

PARTIE IN

MULHERNIAL STRUCTURAL ENGINEERING
STRUCTURAL FACTOR
AND STRUCTURA

M&K project number: 126-21020

project mgr: JTR drawn by: issue date: 06-12-2

REVISIONS:



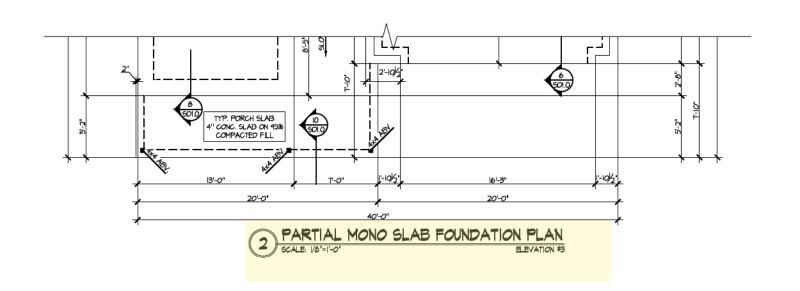


OUNDATION PLANS

DRAYTON RALEIGH, NC

sheet: RIGHT HAND

MONO SLAB FOUNDATION PLAN
SCALE 1/8'-1'-0' ELEVATION #



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.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES # SCHEDULES





126-21020

project mgr: JTR drawn by: issue date: 06-12-21

REVISIONS:







FOUNDATION PLANS
DRAYTON
RALEIGH, NC

sheet: RIGHT HAND

2ND FLOOR FRAMING PLAN

ELEVATIONS #1 + #2

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

SD2.0 & SD2. REFERS TO SD2.0 \$ SD2.IJ FOR I-JOIST FLOOR FRAMING OR SD2.OT & SD2.IT FOR TRUSS FLOOR FRAMING

SD2.IJ/SD2.IT REFERS TO SD2.IJA/SD2.ITA FOR LVL/PSL/LSI BEAMS OR SD2.IJB/SD2.ITB FOR FLITCH BEAMS OR SD2.IJC/SD2.ITC 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.

	ENGINEERED	BEAM	MATERIAL	SCHEDULE	
--	------------	------	----------	----------	--

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)% x 4' - F	35 x 4 - F	(2)1%'x 4' - F	(2)2x12 + (1) /2"x11/2" STEEL FLITCH PLATES - FB	M2×14 - F
002	(2)34'x 4' - #	3½'xi4' - f	(2)134"x14" - F	(2)2xl2 + (1)1/4"xll4" 517=1 FLITCH PLATES - FB	M2×14 - F
003	(5) 1/4 x 10' - FF3 or (2) 1/4 x 20' - FF3	5¼'xl8' - F3	₩A	(3)2xl2 + (2) % xll/, STEEL FLITCH PLATES - FB	Wl2x26 - F
004	(2)%'× 4' - F	3½ xi4" - ∓	(2)1¾'x 4' - F	(2)2x12 + (1)/L'x1 L' STEEL FLITCH PLATES - FB	M2x14 - F
005	(2)1¾ ×11½" - H cont.	兆xll% - H cont.	(2)13%,"×1176" - H cont.	(3)2xi2 + (2) // xii // STEEL FLITCH PLATES - H cont.	NA
005A	(3)1% x14" - H cont.	5%'x14" - H cont.	N/A	(3)2xi2 + (2) ½'xil ½' 5TEEL FLITCH PLATES - H cont.	N/A
006	())% x/4" - F	3½'x 4' - F	(2)134'x 4' - F	(2)2xi2 + (i)½ xi4	MI2xI4 - F
001	(2)1% ×11% - D	兆1% - D	(2)1¾'\x 1¾' - D	(2)2x12 + (1)/(,"x1)/(," STEEL FLITCH PLATES - D	WI0x12 - D
008	(2)1%'x16" - H cont.	3½ x16" - H cont	(5)1% x16" - H cont.	(3)2x12 + (2) ½ x1½ STEEL FLITCH PLATES - H cont.	N/A
009	(2)34'×44' - F	3½"x9¼" - F	(2)134"×94" - F	(2)2x10 + (1)1/4'x9/4' 5TEEL FLITCH PLATES - F	M2×10 - F
010	(2)%'×14" - F	3½'x 4' - †	(2)1%1×141 - F	(2)2x12 + (1)1/L*x11/L" STEEL FLITCH PLATES - FB	M2x14 - †
OII	(2)%'x 4" - F	3½'x 4' - F	(2)1¾'x 4' - F	(2)2xl2 + (1)1/4"xll4" 5TEEL FLITCH PLATES - FB	M2x14 - F
012	(2)%'x %' - D	兆1% - D	<i>(2)</i> 1¾'\ %' - D	(2)2x12 + (1)1/4"x11/4" 5TEEL FLITCH PLATES - D	WI0x12 - D

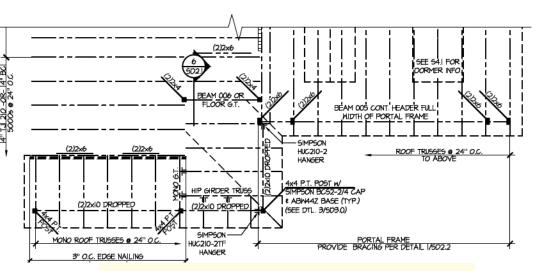
- BEAM NOTATION:

 "F' INDICATES FLUSH BEAM

 "FT" INDICATES FLUSH TOP BEAM

 "FB' INDICATES FLUSH BOTTOM BEAM

- "H" INDICATES PLUSH BOTTOM BEAM
 "D" INDICATES DROPPED REAM
 "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
 ROFE 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 REQD. FASTEN PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS 8" O.C.



PARTIAL 2ND FLOOR FRAMING PLAN

SALES OF THE PARTY OF THE PARTY

MULHERN+KUL®

11/23/2021



126-21020

JTR drawn by: issue date: 06-12-2

REVISIONS:



OOR FRAMING PLANS DRAYTON RALEIGH, NC

sheet: RIGHT HAND S3.0.

LEGEND

- IIIIII 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 SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

SD2.0 \$ SD2.1 REFERS TO SD2.0J \$ SD2.IJ FOR I-JOIST FLOOR FRAMING OR SD2.OT & SD2.IT FOR TRUSS FLOOR FRAMING

SD2.IJ/SD2.IT REFERS TO SD2.IJA/SD2.ITA FOR LVL/PSL/LSL BEAMS OR SD2.IJB/SD2.ITB FOR FLITCH BEAMS OR SD2.IJC/SD2.ITC FOR STEEL BEAMS

	ENGINEERED BEAM MATERIAL SCHEDULE						
╗┃	STEEL OPTION	FLITCH OPTION	LSL OPTION	PSL OPTION	LVL OPTION	BEAM NUMBER	
71	WI2xI4 - F	(2)2x12 + (1) ¼ x1¼ STEEL FLITCH PLATES - FB	(2)1% ×14 - F	5½'xl4" - F	(2)%'xi4" - F	001	
	WI2xI4 - F	(2)2xl2 + (1) ¼ xll¼ STEEL FLITCH PLATES - FB	(2)1¾ ×14 - F	3½'xi4' - F	(2)1% xi4" - F	002	
╗╟	MI2x26 - F	(5)2xi2 + (2) % xil4 STEEL FLITCH PLATES - FB	N/A	张'xið' - FB	(3)以 xið - FB ar (2)以 x20 - FB	003	
┪┃	WI2xI4 - F	(2)2xl2 + (1) ¼ xll¼ STEEL FLITCH PLATES - FB	(2) % 'x 4' - F	9½'x 4' - F	(2)1%'x14" - F	004	
▋▐	N/A	(3)2xi2 + (2) /4 xii /4 STEEL FLITCH PLATES - H cont.	(2)1% x11% - H cont.	3½'x11%' - H cont.	(2)1% x11% - 11 cont.	005	
71	N/A	(3)2xi2 + (2) ¼ xii ½ STEEL FLITCH PLATES - H cont.	N/A	54'x 4" - H cont.	(3)13/4"×14" - H cont.	005A	
1 L	WI2xI4 - F	(2)2xl2 + (1) ¼'xl4" STEEL FLITCH PLATES - FD	(2)1% ×14 - F	3½'x 4" - F	(// % × ዞ - F	006	
7	NIOxi2 - D	(2)2xl2 + (1) /4'xll/4' STEEL FLITCH PLATES - D	(2)%'x %' - D	兆以/ - D	(2)1% x11%" - D	001	
7	N/A	(3)2xi2 + (2)/2 xil/4 STEEL FLITCH PLATES - H cont.	(3)%'x16' - H cont.	3½'x16" - H cont.	(2)1% x16" - H cont.	800	
╕┠	₩8 ×10 - F	(2)2x10 + (1) /4'x4'4' STEEL FLITCH PLATES - F	(2)134"×94" - F	3½'x4¼' - F	(2)1¾ ×4¼ - F	007	
╕┠	WI2xI4 - F	(2)2x12 + (1) ½ x1½ STEEL FLITCH PLATES - FB	(2)1¾"x14" - F	3½'xl4" - F	(2)1% xi4 - F	010	
7 [WI2xI4 - F	(2)2x12 - (1) ¼ x1¼ STEEL FLITCH PLATES - FB	(2)1% xi4" - F	3%/xi4" - F	(2)1% xi4" - F	QII	

(2)11/4 x11/6" - D

012

3½ xll½ D

- *** BEAM NOTATION.

 "FI" INDICATES FLUSH BEAM

 "FT" INDICATES FLUSH TOP BEAM

 "FT" INDICATES FLUSH TOP BEAM

 "FT" INDICATES FLUSH TOP BEAM

 "H" INDICATES DROPPED BEAM

 "H" INDICATES DROPPED BEAM

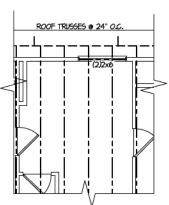
 "H" INDICATES DROPPED BEAM

 *** RETER TO DETAIL DISD20 FOR TYPICAL FLITCH BEAM CONNECTIONS

 *** RETER TO DETAIL E/SD20 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**XOL20* NAILS 6 8** OC.

(2) 1/4 xil 1/6 - D



PARTIAL ROOF FRAMING PLAN OPTIONAL OWNERS BATH & DELUXE OWNER'S BATH 9CALE: 1/8"=1'-0"

ELEV. # SHOWN - ALL ELEV. SIM.

SPHEN V MULHERN+KULE



K project number: 126-21020 oject mgr:

JTR KL sue date: 06-12-21

initial:

MOx12 - D







OPTION FRAMING PLANS
DRAYTON
RALEIGH, NC

sheet: RIGHT HAND S5.0_x

ELEVATIONS #1 + #2

REFER TO SO O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

SD2.0 & SD2. REFERS TO SD2.0 \$ SD2.IJ FOR I-JOIST FLOOR FRAMING OR SD2.OT & SD2.IT FOR TRUSS FLOOR FRAMING

SD2.IJ/SD2.IT REFERS TO SD2.IJA/SD2.ITA FOR LVL/PSL/LSL BEAMS OR SD2.IJB/SD2.ITB FOR FLITCH BEAMS OR SD2.IJC/SD2.ITC 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.

EN	SINEERED E	EAM MATER	RIAL SCHEDULE
L OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION

BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION
001	(2)%'×14" - F	35 xl4' - F	(2)%'xi4' - F	(2)2x12 + (1) /(1 x1) /(1 STEEL FLITCH PLATES - FB	M2×14 - F
002	(2)%'x 4' - #	3½'x 4' - f	(2)13/4"x 4" - F	(2)2xl2 + (1)1/4"xl1/4" 5TEFL FLITCH PLATES - FB	M2×14 - F
003	(3)弘 xið - FB ar (2)弘 x20 - FB	5¼'xl8' - F3	₩A	(3)2xl2 + (2) % xlk, STEEL FLITCH PLATES - FB	WI2x26 - F
004	(2)1¾'×14' - F	3½ xi4' - ∓	(2)1¾'x 4' - F	(2)2x12 + (1)1/4"x11/4" STEEL FLITCH PLATES - FB	M2x14 - F
005	(2)1张*x11%" - H cont.	兆xll% - H cont.	(2)13%,"×1176" - H cont.	(3)2x12 + (2)从'x11%' STEEL FLITCH PLATES - H cont.	N/A
005A	(3)1% 1x14" - H cont.	514"×14" - H cont.	N/A	(3)2x12 + (2) ½' x11 ½' 5TEEL FLITCH PLATES - H cont.	N/A
006	(እ % xi4" - F	3½'x 4' - f	(2)13/4"x 4" - F	(2)2xi2 + (i) ¼ xi4 5TEEL FLITCH PLATES - FB	MI2xI4 - F
001	(2)1% x11% - D	兆×11% - D	(2)がいが - D	(2)2x12 + (1)1/4"x11/4" STEEL FLITCH PLATES - D	WI0x12 - D
008	(2)1%'x16" - H cont.	3½ x16" - H cont	(5)1% x16" - H cont.	(3)2xi2 + (2) ½ xilk, STEEL FLITCH PLATES - H cont.	N/A
009	(2)134"×94" - F	3½"x9¼" - F	(2)134"×94" - F	(2)2x10 + (1)1/4"x9%" 5TEEL FLITCH PLATES - F	M8×10 - F
010	(2)1%/×14" - F	3% xl4" - †	(2)1%'x 4' - F	(2)2x12 + (以从*xi以" STEEL FLITCH FLATES - FB	M2x14 - †
OII	(2)%'x 4" - F	3½'x 4' - F	(2)1 % 'xi4' - F	(2)2xl2 + (1)1/4"xl1/4" 5TEEL FLITCH PLATES - FB	M2x14 - F
012	(2)残'x %' - D	兆1兆 - D	(2)1张'x 张' - D	(2)2xl2 + (以以x!xl以" 5t世) FLITCH PLATE5 - D	WI0x12 - D

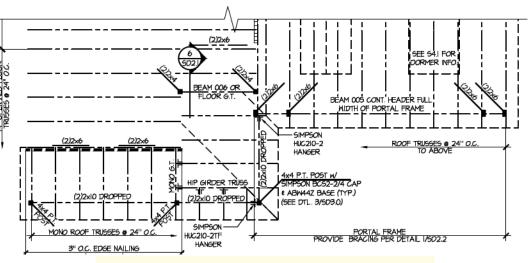
- BEAM NOTATION:

 "F' INDICATES FLUSH BEAM

 "FT" INDICATES FLUSH TOP BEAM

 "FB' INDICATES FLUSH BOTTOM BEAM

- "H" INDICATES PLUSH BOTTOM BEAM
 "D" INDICATES DROPPED REAM
 "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
 ROFE 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 REQD. FASTEN PLATES IN SUCCESSION w/ (2) 3"x0.120" NAILS 8" O.C.





SALES OF THE PARTY MULHERN+KUL®

11/23/2021



126-21020

JTR drawn by: issue date: 06-12-2

REVISIONS:



OOR FRAMING DRAYTON RALEIGH, NC

sheet: RIGHT HAND **S3.0T**

LEGEND

- IIIIII 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 SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

SD2.0 \$ SD2.1 REFERS TO SD2.0J \$ SD2.IJ FOR I-JOIST FLOOR FRAMING OR SD2.0T & SD2.IT FOR TRUSS FLOOR FRAMING

SD2.IJ/SD2.IT REFERS TO SD2.IJA/SD2.ITA FOR LVL/PSL/LSL BEAMS OR SD2.IJB/SD2.ITB FOR FLITCH BEAMS OR SD2.IJC/SD2.ITC FOR STEEL BEAMS

SPHEN V MULHERN+KUL

B

	EN	SINEERED E	EAM MATER	RIAL SCHEDULE		
BEAM NUMBER	LVL OPTION	PSL OPTION	LSL OPTION	FLITCH OPTION	STEEL OPTION	
001	(2)1%; xi4* - F	5½'xi4" - F	(2)1¾ ×14 - F	(2)2xi2 + (i) ¼ xil¼ steel Flitch plates - FB	WI2xI4 - F	
002	(2)13/4"×14" - F	3½'xi4' - F	(2)1¾ ×14 - F	(2)2xl2 + (1) ¼ xll¼ STEEL FLITCH PLATES - FB	WI2xI4 - F	
003	(3)% xið - FB ar (2)% x20 - FB	张'xið' - FB	N/A	(5)2xl2 + (2) % xlk, Steel Flitch Plates - FB	M12x26 - F	May
004	(2)1%'x14" - F	9½'xi4' - F	(2) % ×14" - F	(2)2xl2 + (1) ¼'xll¼' STEEL FLITCH PLATES - FB	WL2x14 - F	M&K project number: 126-21020
005	(2)1% x11% - # cont.	兆水ル - H cont.	(2)1% x11% - H cont.	(5)2xl2 + (2) ¼'xll¾' STEEL FLITCH PLATES - H cont.	N/A	project mgr: JTR
005A	(3)13/4"×14" - H cont.	54 x14" - H cont.	N/A	(3)2x12 + (2)人xii分 STEEL FLITCH PLATES - H cont.	N/A	drawn by: KL
006	() /% × ዞ - F	3½'xi4' - F	(2)1% x/4 - F	(2)2xl2 + (1) ½ xl4	WI2xI4 - F	issue date: 06-12-21
001	(2)1% x11%" - D	兆以 - D	(2)%'x %' - D	(2)2xl2 + (l) ¼'xll¼' STEEL FLITCH PLATES - D	MlOxi2 - D	REVISIONS:
008	(2)1% x16 - H cont.	3½'x16" - H cont.	(3)%'x16' - H cont.	(3)2xi2 + (2)/5'xil/4' STEEL FLITCH PLATES - H cont.	N/A	date: initial:
004	(2)1¾"×1¼" - F	3½'x9¼' - F	(2)134"×94" - F	(2)2×10 + (1) ¼ x4¼ STEEL FLITCH PLATES - F	₩8 ×10 - F	
010	(2)%'x 4" - F	3½'xl4" - F	(2)% xi4 - F	(2)2x12 + (1) ¼ x1¼ STEEL FLITCH PLATES - FB	WL2x14 - F	
OII	(2)1%'xi4" - F	3½'xl4' - F	(2)%'xH' - F	(2)2xi2 - (i) ¼ xil¼ STEEL FLITCH PLATES - FB	WL2x14 - F	
012	(2)1% x11%" - D	兆×I/% - D	(2)1¾'x11¾' - D	(2)2xl2 + (l) ¼ xll¼ STEEL FLITCH PLATES - D	MI0xl2 - D	

- BEAM NOTATION.

 "F" INDICATES FLUSH BEAM

 "FT" INDICATES FLUSH BOTTOM BEAM

 "FT" INDICATES FLUSH BOTTOM BEAM

 "TO" INDICATES DROPPED BEAM

 "INDICATES DROPPED BEAM

 "INDICATES DROPPED DEBAM

 "INDICATES DROPPED DEBAM

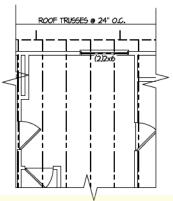
 "INDICATES DROPPED DEBAM

 REFER TO DETAIL DISPOSO FOR TYPICAL FLITCH BEAM CONNECTIONS

 REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS

 REFER TO DETAIL E/SD2.0 FOR TYPICAL STEEL BEAM CONNECTIONS

 POR FLUSH TOP BEAMS PROVIDE 2X STACKED PLATES BENEATH BEAM AS REQ'D. FASTEN PLATES IN SUCCESSION W (2) 3"XO.120" NAILS \$ 8" O.C.

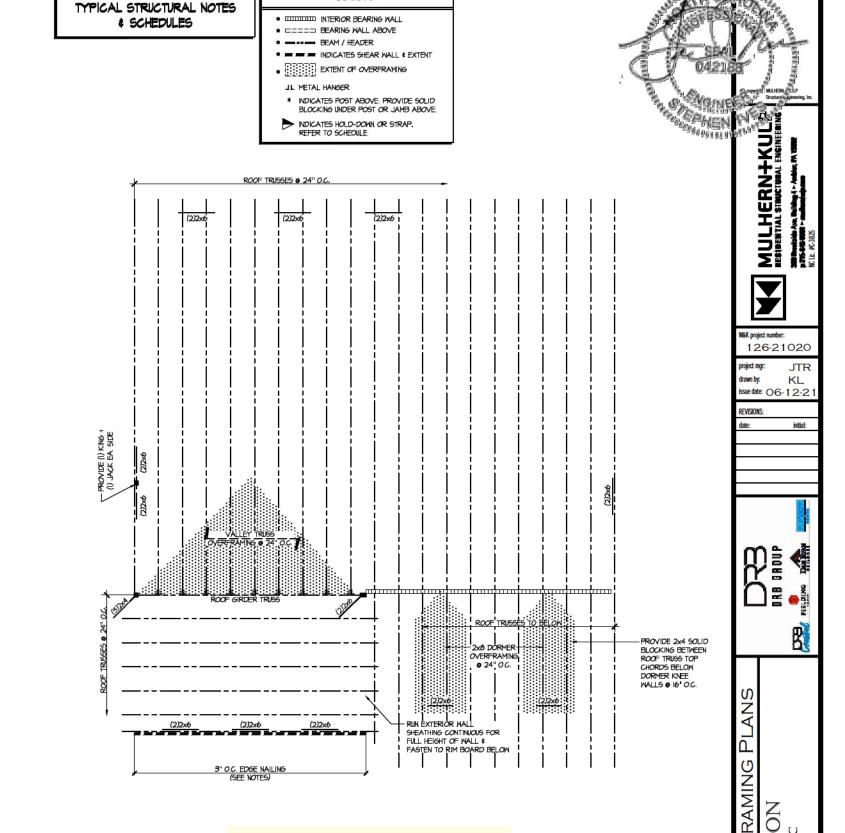


PARTIAL ROOF FRAMING PLAN OPTIONAL OWNERS BATH & DELUXE OWNER'S BATH SCALE: 1/8"=1"-0"

ELEV. #I SHOWN - ALL ELEV. SIM.

OPTION FRAMING PLANS
DRAYTON
RALEGH, NC

sheet: RIGHT HAND **S5.0T**



PARTIAL ROOF FRAMING PLAN

ELEVATIONS #2

LEGEND

REFER TO SO.O FOR

11/23/2021

M&K project number: 126-21020

project mgr: JTR drawn by: KL issue date: 06-12-2

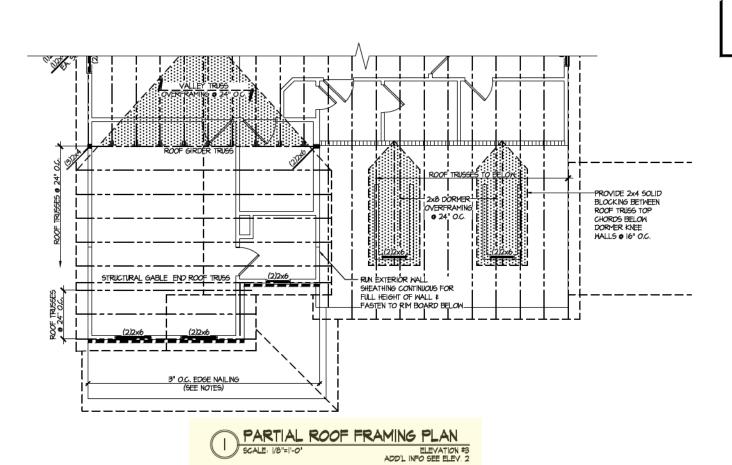
REVISIONS:

initial:

B

ROOF FRAMING PLANS
DRAYTON
RALEIGH, NC

sheet: RIGHT HAND



REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES # SCHEDULES

LEGEND

- IIIIIII 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.

11/23/2021

MULHERN+KUL RESIDENTIAL STRUCTURAL ENGINEERING PARSONNELLE IN THE PARS

M&K project number 126-21020

project mgr: JTR drawn by: KL issue date: 06-12-2

REVISIONS:

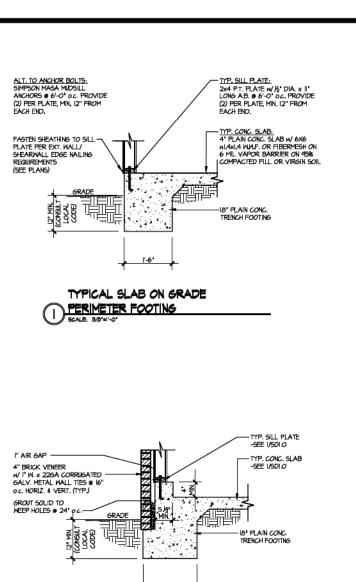
initial:

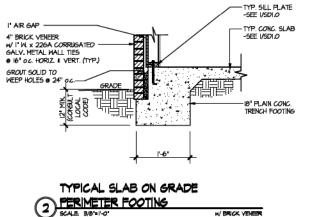




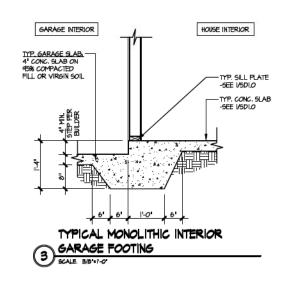
ROOF FRAMING PLANS
DRAYTON
RALEIGH, NC

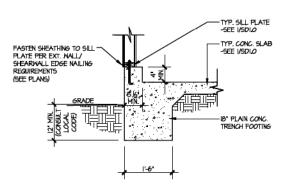
sheet: RIGHT HAND



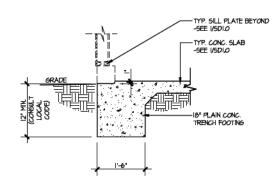


w/ BRICK VENERS

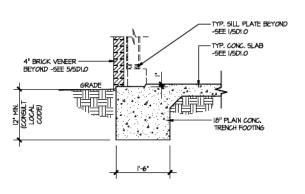




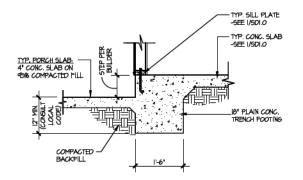




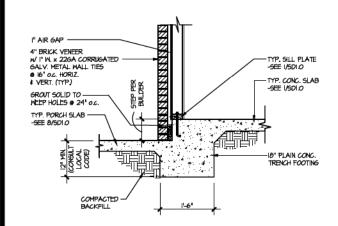








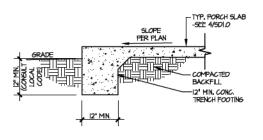
TYPICAL SLAB ON GRADE PERIMETER (8) FOOTING @ PORCH/PATIO



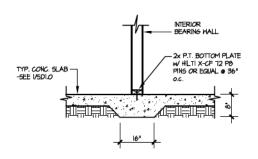
TYPICAL SLAB ON GRADE GARAGE

5 PERIMETER FOOTING

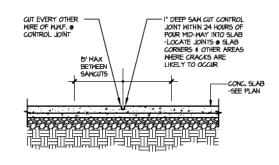




TYPICAL FOOTING @ PORCH SLAB



TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL





OUNDATION DETAIL

P

A. S. Station V. S. Station V.

MULHERN+KUL

M&K project number 126-21020

issue date: 06-12-2

JTR

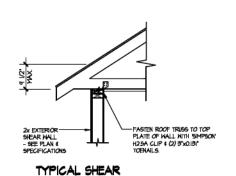
initial:

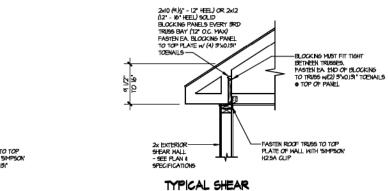
project mgr:

drawn by:

REVISIONS:

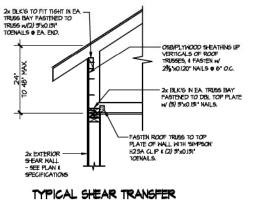
DRAYTON RALEIGH, NC



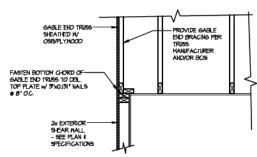


TRANSFER DETAIL @ ROOF

HEEL HEIGHT BETWEEN 9月 - 16 BLOCKING REC'D

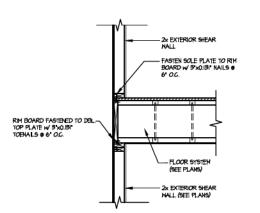


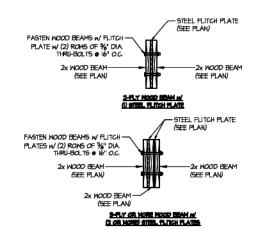
A3 DETAIL @ RAISED HEEL TRUSS



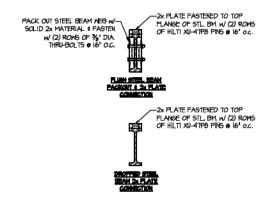
TYPICAL GABLE END DETAIL







TYPICAL FLITCH BEAM CONNECTION DETAIL

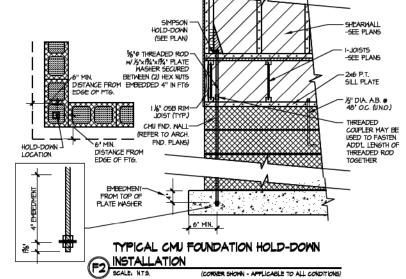


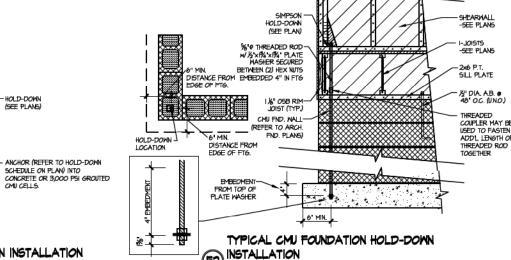
TYPICAL STEEL BEAM CONNECTION DETAIL

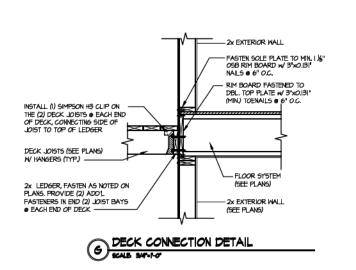
TYPICAL SHEAR TRANSFER DETAIL SCALE, S/8'-1-0'

HOLD-DOWN

TYPICAL HOLD DOWN INSTALLATION SCALE: XTS.







PROVIDE MIN. (2) STUDS & HOLD-DOWN

LOCATION

RAMING **SD2.0J**

M

A STATES

MULHERN+KUC

M&K project number 126-21020

issue date: 06-12-2

drawn by:

REVISIONS:

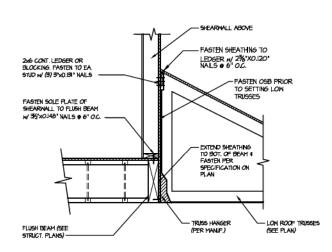
JTR

initial:

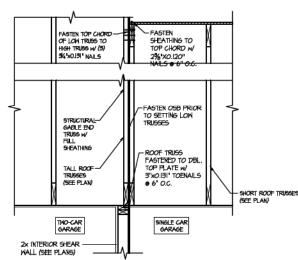
DETAIL

DRAYTON RALEIGH, NC

SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW SCALE: 8/4"=1"-0" PARALLEL FRAMING



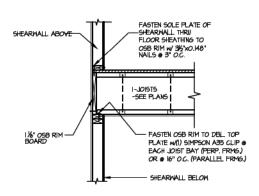
SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE 5042: 944-1-01



TYPICAL SHEAR TRANSFER DETAIL

BETWEEN GARAGE BAYS

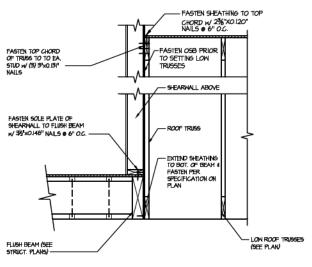
SCALE \$1/4"=1-0"



SHEAR TRANSFER DETAIL @ INT.

SHEARWALL ABOVE & BELOW

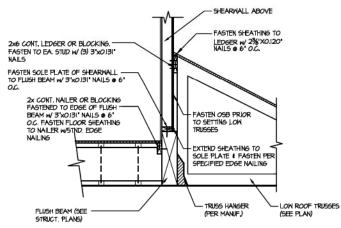
SCALE: 3/4'-1'-0' EDGE OF PRA



SHEAR TRANSFER DETAIL @

EXTERIOR SHEARWALL ABOVE

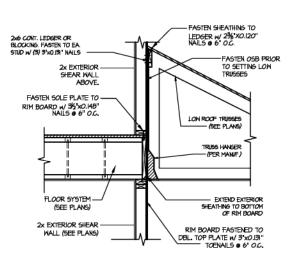
SCALE: 9/4*1-0"



SHEAR TRANSFER DETAIL @

EXTERIOR SHEARWALL ABOVE

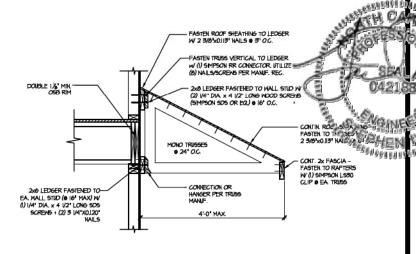
SCALE: 5/4'=1-0'



TYPICAL SHEAR TRANSFER DETAIL

BETWEEN FLOORS @ INTERIOR WALL

SCALE: \$1/4"-1" O'



ULHERN+KUL

M&K project number

REVISIONS:

126-21020

issue date: 06-12-2

] 를

DETAIL

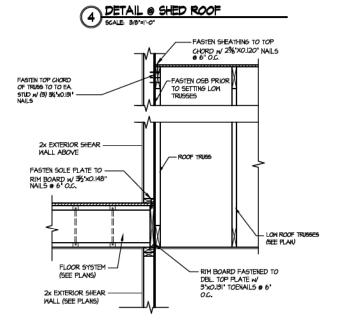
RAMING

DRAYTON RALEIGH, NC

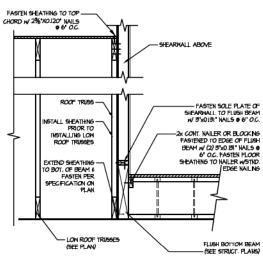
SD2.1A.

JTR

initial:



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL SCALE BAY-1-0*

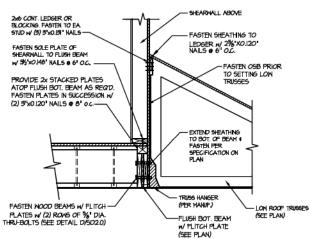


FILE: RLH - Drayton - Structurals DATE: 11/23/2021 11:19 AM

SHEAR TRANSFER DETAIL @

EXTERIOR SHEARWALL ABOVE

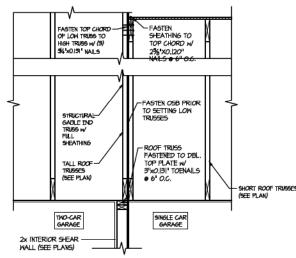
SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW SCALE: 9.4":1"-0" PARALLEL FRAMING



SHEAR TRANSFER DETAIL @

EXTERIOR SHEARWALL ABOVE

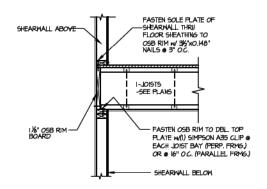
5042: 944:1-07



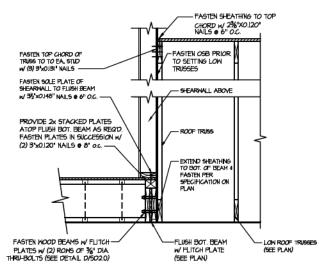
TYPICAL SHEAR TRANSFER DETAIL

BETWEEN GARAGE BAYS

SCALE 344-1-6-



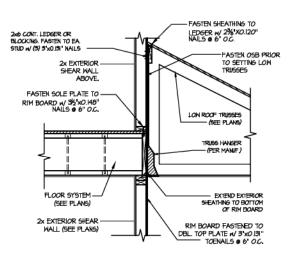
SHEAR TRANSFER DETAIL @ INT. SHEARWALL ABOVE & BELOW SCALE: 9/4*=1"-0" EDGE OF FRANING



SHEAR TRANSFER DETAIL @

EXTERIOR SHEARWALL ABOVE

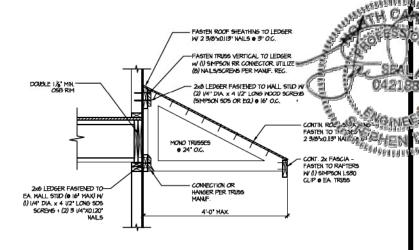
SCALE: 9/4*-1-0*

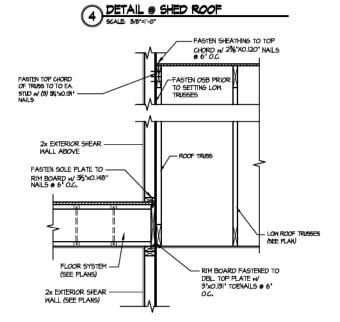


TYPICAL SHEAR TRANSFER DETAIL

BETWEEN FLOORS @ INTERIOR WALL

SCALE: 5/4*-!-0"





TYPICAL SHEAR TRANSFER DETAIL

BETWEEN FLOORS @ INTERIOR WALL

SCALE 344-1-2*

JTR drawn by: issue date: 06-12-2 REVISIONS: initial: E FRAMING DETAIL DRAYTON RALEIGH, NC **SD2.1BJ**

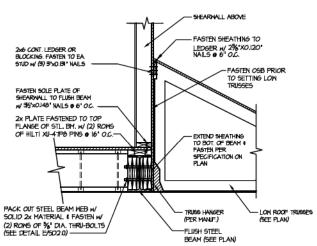
11/23/2021

MULHERN+KUL

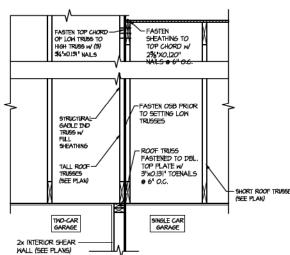
M&K project number

126-21020

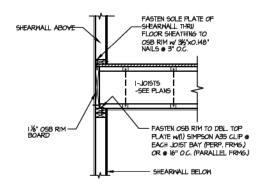
SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW SCALE: 9/4":-1"-0" PAR



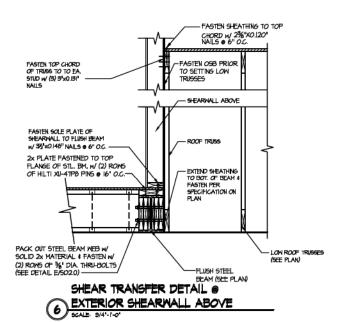
SHEAR TRANSFER DETAIL @ 5 EXTERIOR SHEARWALL ABOVE



TYPICAL SHEAR TRANSFER DETAIL 9 BETWEEN GARAGE BAYS



SHEAR TRANSFER DETAIL @ INT. 2 SHEARWALL ABOVE & BELOW



RIM BOARD FASTENED TO DBL. TOP PLATE w/ 3'x0.131" TOENAILS @ 6' O.C. TYPICAL SHEAR TRANSFER DETAIL DETMEEN FLOORS @ INTERIOR WALL

2x6 CONT. LEDGER OR BLOCKING. FASTEN TO EA. STUD w/ (5) 3 x0.131 NAILS

FASTEN SOLE PLATE TO -

(SEE PLANS)

2x EXTERIOR SHEAR

RIM BOARD W/ 35 XO 148" NAILS @ 6" O.C.

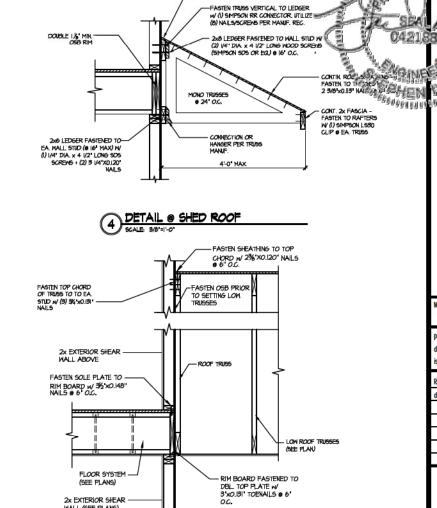
- FASTEN SHEATHING TO

LOW ROOF TRUSSES (SEE PLANS)

TRUSS HANGER — (PER MANUF.)

TO SETTING LOW

TRUSSES



FASTEN ROOF SHEATHING TO LEDGER W 2 3/8 x0.113" NAILS @ 3" O.C.



E FRAMING DETAIL DRAYTON RALEIGH, NC SD2.1CJ

MULHERN+KUL

M&K project number

drawn by:

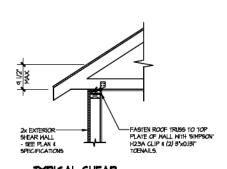
REVISIONS:

126-21020

issue date: 06-12-2

JTR

initial:

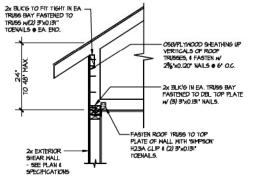




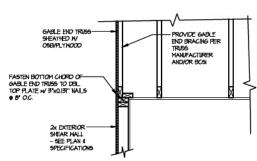
HEEL HEIGHT LESS THAN 4½" NO BLOCKING REQD

2xIO (4,5' - 12" HEILJ OR 2x12 (12" - 16" HEILJ SOLID BLOCKING PANELS EVERY 3RD TRUSS BAY (12" O.C. MAX) FASTEN EA BLOCKING PANEL TO TOP PLATE N/ (4) 3 XO.B!" -BLOCKING MUST FIT TIGHT BETMEEN TRUBSES. FASTEN EA. END OF BLOCKING TO TRUBS W(2) 3 NO.131 TOENAILS • TOP OF PANEL -Fasten Roof Trijss to top Plate of Wall With 'Simpson' H25A Clip 2x Exterior— Shear Wall - See Plan & Specifications

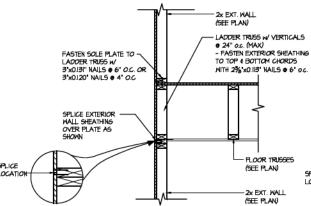
TYPICAL SHEAR TRANSFER DETAIL & ROOF HEEL HEIGHT BETWEEN 4月 - 16"



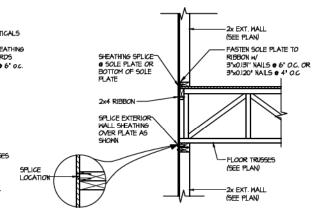




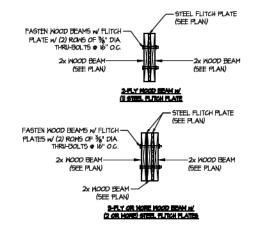
TYPICAL GABLE END DETAIL



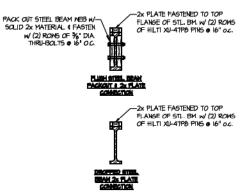
TYPICAL SHEAR TRANSFER DETAIL CI BETWEEN FLOORS & EXTERIOR MALL



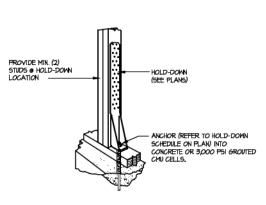
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL



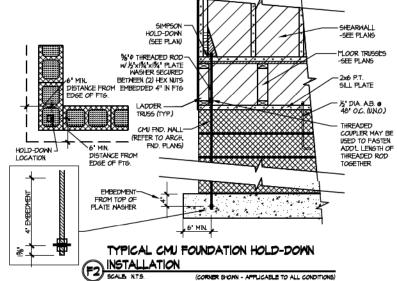
TYPICAL FLITCH BEAM CONNECTION DETAIL
SCALE SUF-F-O*

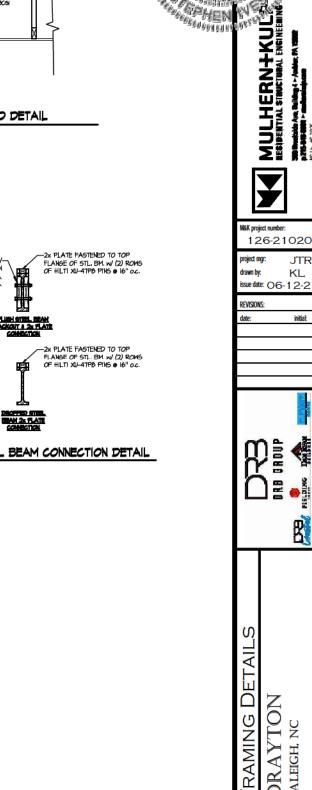


TYPICAL STEEL BEAM CONNECTION DETAIL



TYPICAL HOLD DOWN INSTALLATION SCALE NTS.





11/23/2021

JTR

initial:

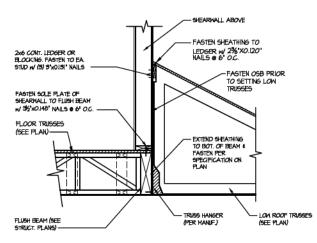
DRAYTON RALEIGH, NC

SD2.07

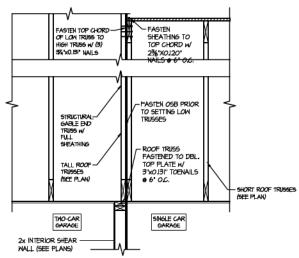
8

VONE SPHEN C

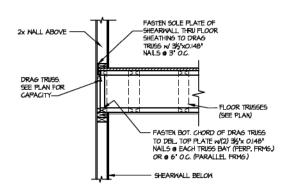
SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW



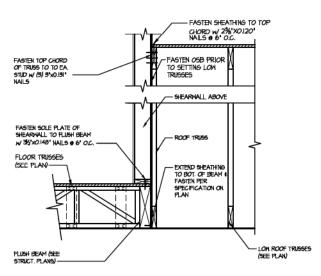
SHEAR TRANSFER DETAIL @ 5 EXTERIOR SHEARWALL ABOVE



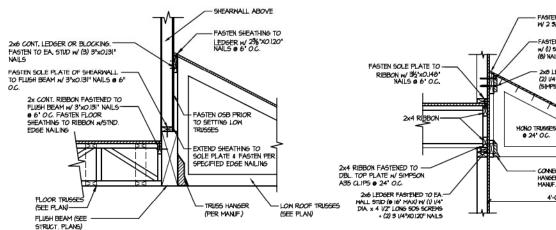
TYPICAL SHEAR TRANSFER DETAIL BETWEEN GARAGE BAYS



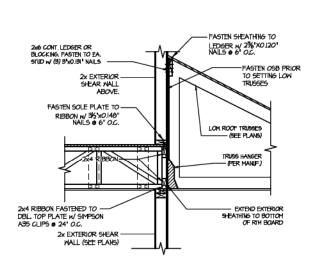
SHEAR TRANSFER DETAIL @ INT. SHEARWALL ABOVE & BELOW



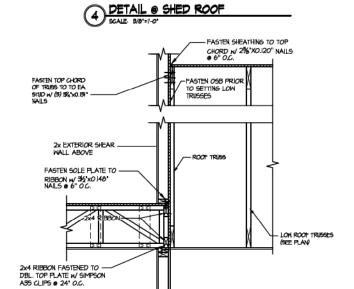
SHEAR TRANSFER DETAIL @ 6 EXTERIOR SHEARWALL ABOVE



SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL



- 2x0 LEDGER FASTENED TO WALL STUD WI (2) V4* DIA. x 4 V2* LONG MOOD SCREMS (SIMPSON SDS OR EQ.) @ 16* O.C.

HANGER PER TRUSS MANUF.

4'-0' MAX

- CONTIN. ROOF : A)AN FASTEN TO TRUSS: 2 5/6/x0 ll3' NAILS 6

IERN+KUL

M&K project number

drawn by:

REVISIONS:

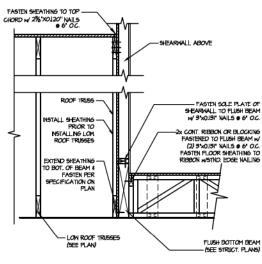
126-21020

issue date: 06-12-2

JTR

TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

WALL (SEE PLANS)



SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE

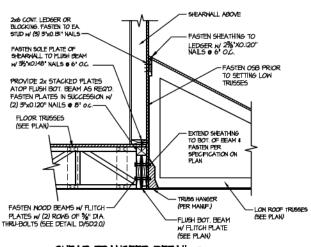
DRAY RALEIGH, 1 SD2.1AT

TON NC

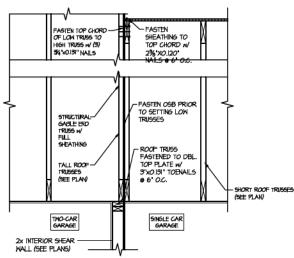
DETAIL

RAMING

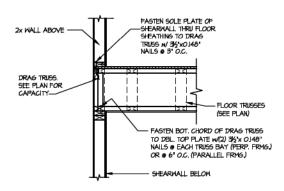
SHEAR TRANSFER DETAIL @ INTERIOR SHEARMALL BELOW



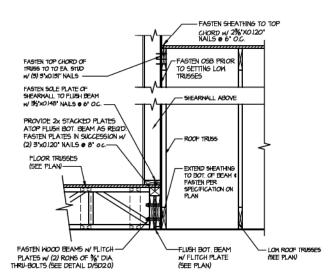
SHEAR TRANSFER DETAIL @ 5 EXTERIOR SHEARWALL ABOVE



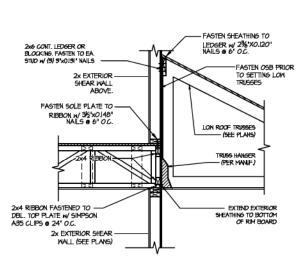
TYPICAL SHEAR TRANSFER DETAIL BETWEEN GARAGE BAYS



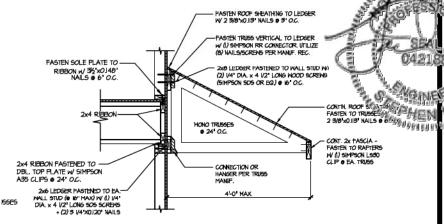
SHEAR TRANSFER DETAIL @ INT. SHEARWALL ABOVE & BELOW



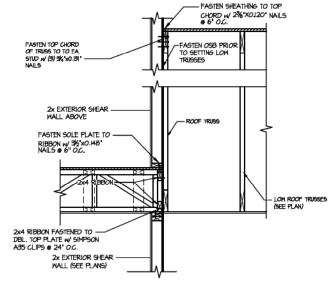
SHEAR TRANSFER DETAIL @ 6 EXTERIOR SHEARWALL ABOVE



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL





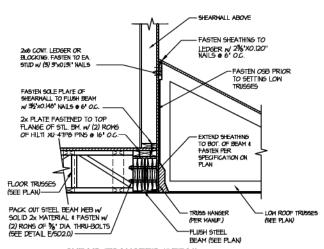


TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

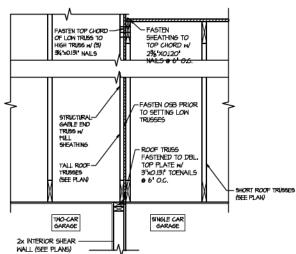
MULHERN+KUL? - FASTEN SHEATHINS TO TOP CHORD w/ 2% XO120" NAILS 9 6' O.C. M&K project number 126-21020 JTR drawn by: issue date: 06-12-2 REVISIONS: initial: M DETAIL

DRAYTON RALEIGH, NC FRAMING SD2.1BT

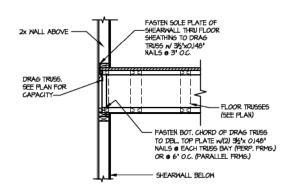
SHEAR TRANSFER DETAIL @ INTERIOR SHEARMALL BELOW



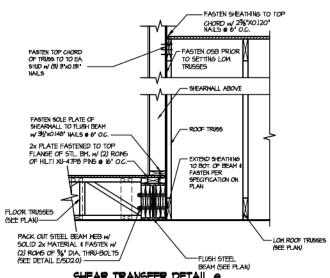
SHEAR TRANSFER DETAIL @ 5 EXTERIOR SHEARWALL ABOVE



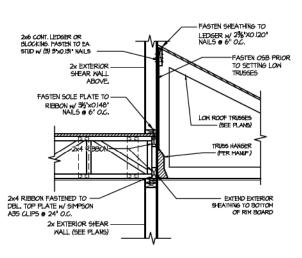
TYPICAL SHEAR TRANSFER DETAIL



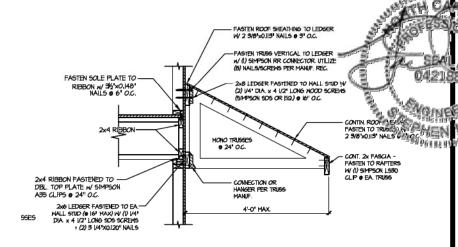
SHEAR TRANSFER DETAIL @ INT. 2 SHEARWALL ABOVE & BELOW

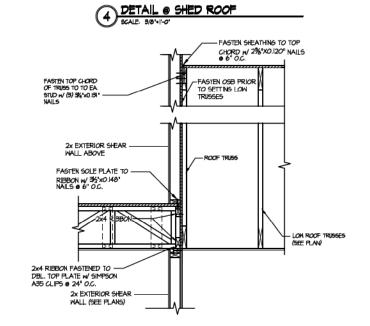


SHEAR TRANSFER DETAIL @ 6 EXTERIOR SHEARWALL ABOVE



TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL





TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL

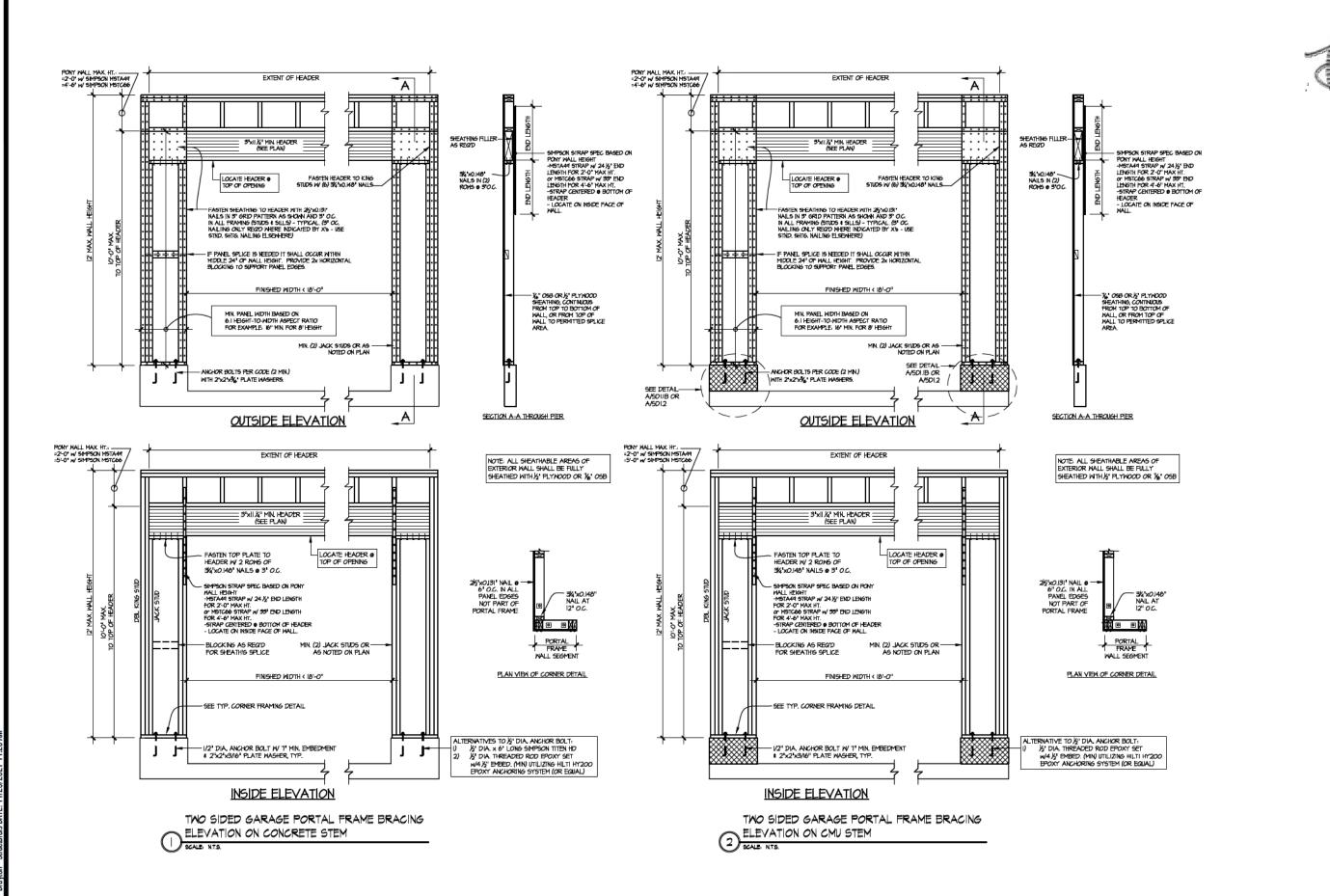
M&K project number 126-21020 oroject mgr: JTR drawn by: issue date: 06-12-2 REVISIONS: initial: M DETAIL DRAYTON RALEIGH, NC FRAMING SD2.1CT

11/23/2021

AUCHERN+KUL®

Σŧ

9 BETWEEN GARAGE BAYS



FILE RI H - Drawton - Structurals DATE: 11/23/2021 11:20 AM

FRAMING DETAIL DRAYTON RALEIGH, NC

A SP PRENT

MULHERN+KUL

M&K project number: 1 26-2 1 0 2 C

JTR

initial:

KL

issue date: 06-12-2

project mgr:

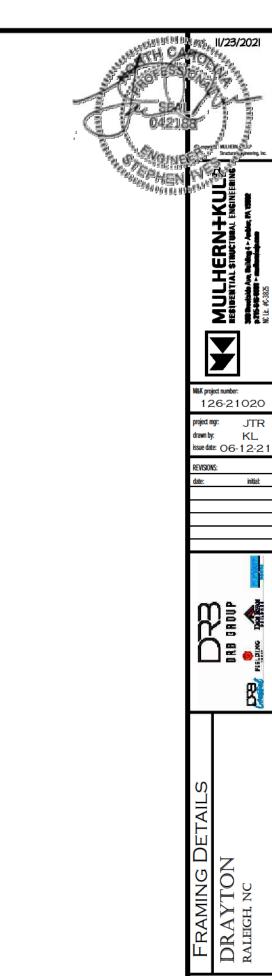
drawn by:

REVISIONS:

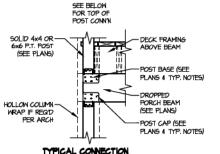
P

888

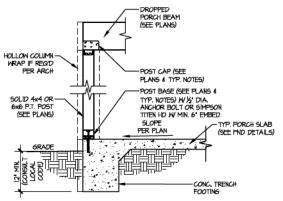
B



SD3.0



TYPICAL CONNECTION DETAIL @ 2nd FLOOR DECK

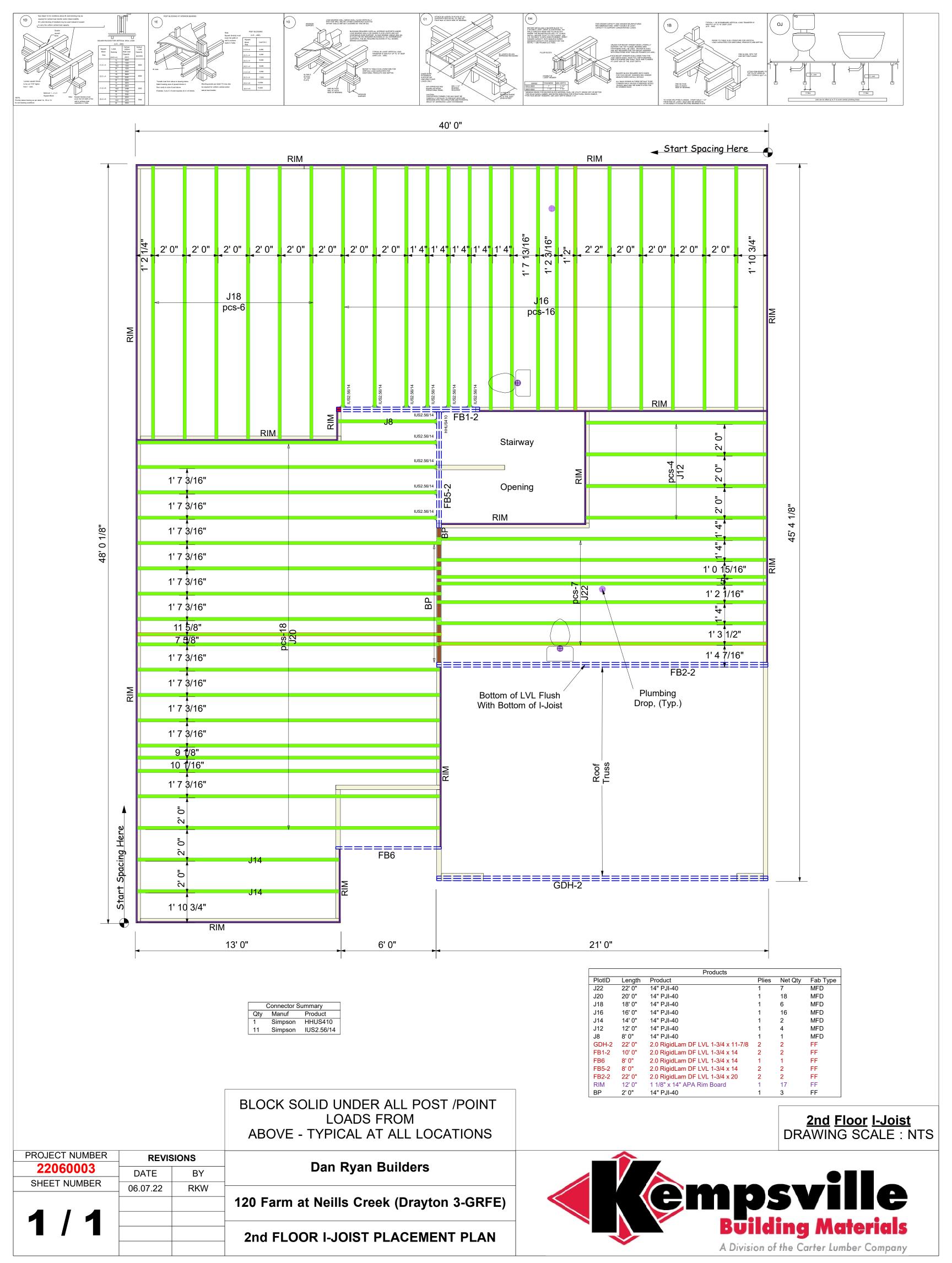


TYPICAL PORCH

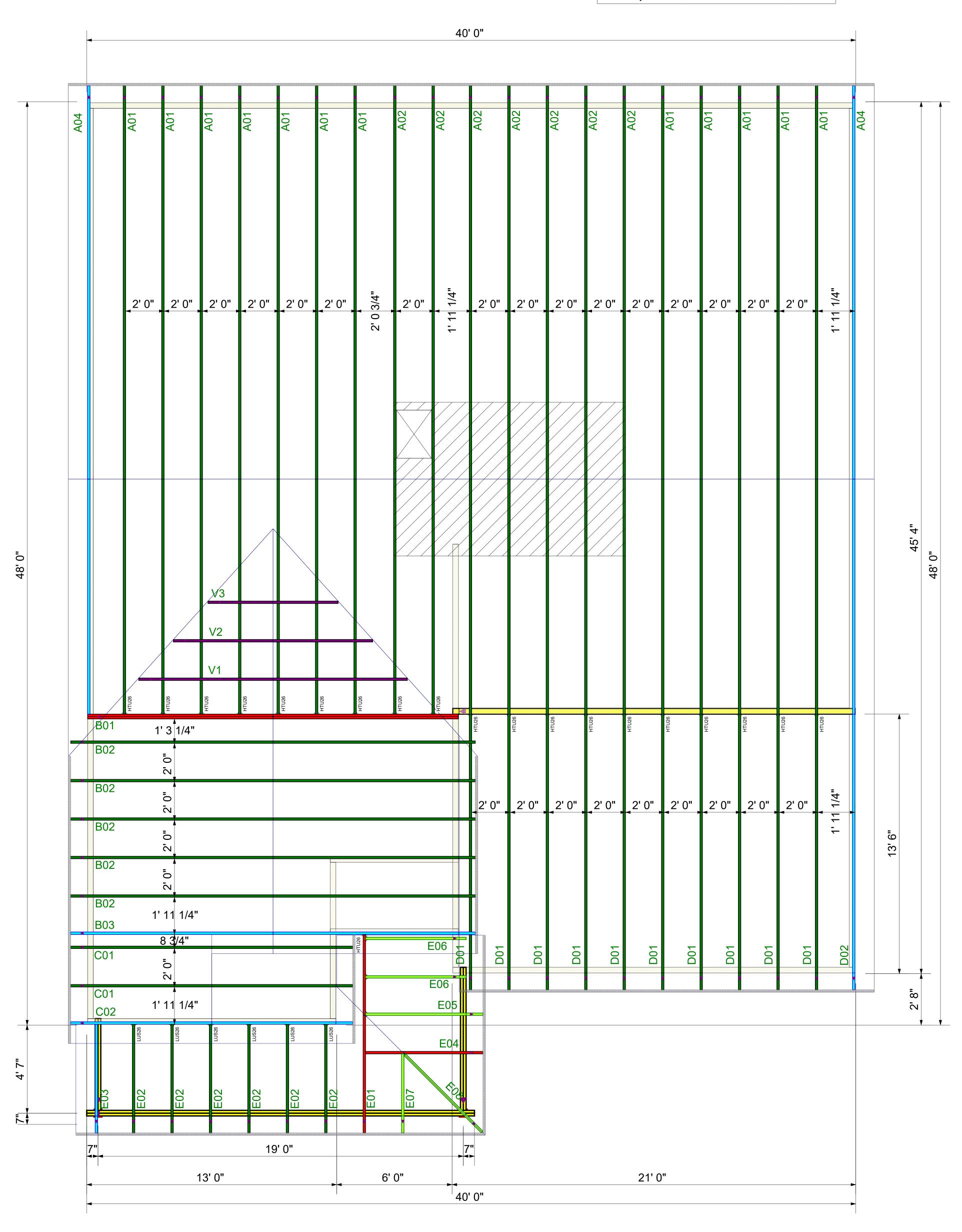
POST CONNECTION DETAIL

SCALE: NONE

SLAD ON GRADE SHOWN
(SIM & CRANL & BENT)



Truss Cor	nector Total	List
Manuf	Product	Qty
Simpson	HTU26	20
Simpson	LUS26	6



ROOF LAYOUT
DRAWING SCALE: NTS

PROJECT NUMBER	REVISIONS	
22060003	DATE BY	
SHEET NUMBER	6-6-22 ND	
AIA		
- , -		

DRB GROUP

DRAYTON 3 - 120 FARM AT NEILLS CREEK

ROOF TRUSS LAYOUT

