

BENSON II

CEDAR POINTE
LOT 0029



SMITH DOUGLAS HOMES

QUALITY | INTEGRITY | VALUE

PLAN ID 110122.0203

110 VILLAGE TRAIL SUITE 215
WOODSTOCK, GA. 30188

DRAWING INDEX	
A0.0	COVER SHEET
A1.1	FRONT ELEVATIONS
A2.1	SIDE & REAR ELEVATIONS
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A5.2	SECOND FLOOR PLANS & DETAILS
A6.1	ROOF PLANS
A7.2-A7.3	ELECTRICAL PLANS

AREA TABULATION	
FIRST FLOOR	726
SECOND FLOOR	1087
TOTAL	1813
GARAGE	408
FRONT PORCH (COVERED)	76
REAR PATIO	120

PLAN REVISIONS			
DATE	BY	REVISION	PAGE #
12/9/2022	AW	Prototype walk revisions - see revision sheet	A5.1, A5.2, A5.2.1,A7.2, A7.3, A7.3.1
9/21/2023	BB	Removed tub and shower sizes from all affected pages	A5.2, A5.2.1
1/30/2025	LJ	PCR 6201 - added unfinished and finished basements, stair well width adjusted to accommodate basements	A3.1 - A5.2.1, A7.1-8.1

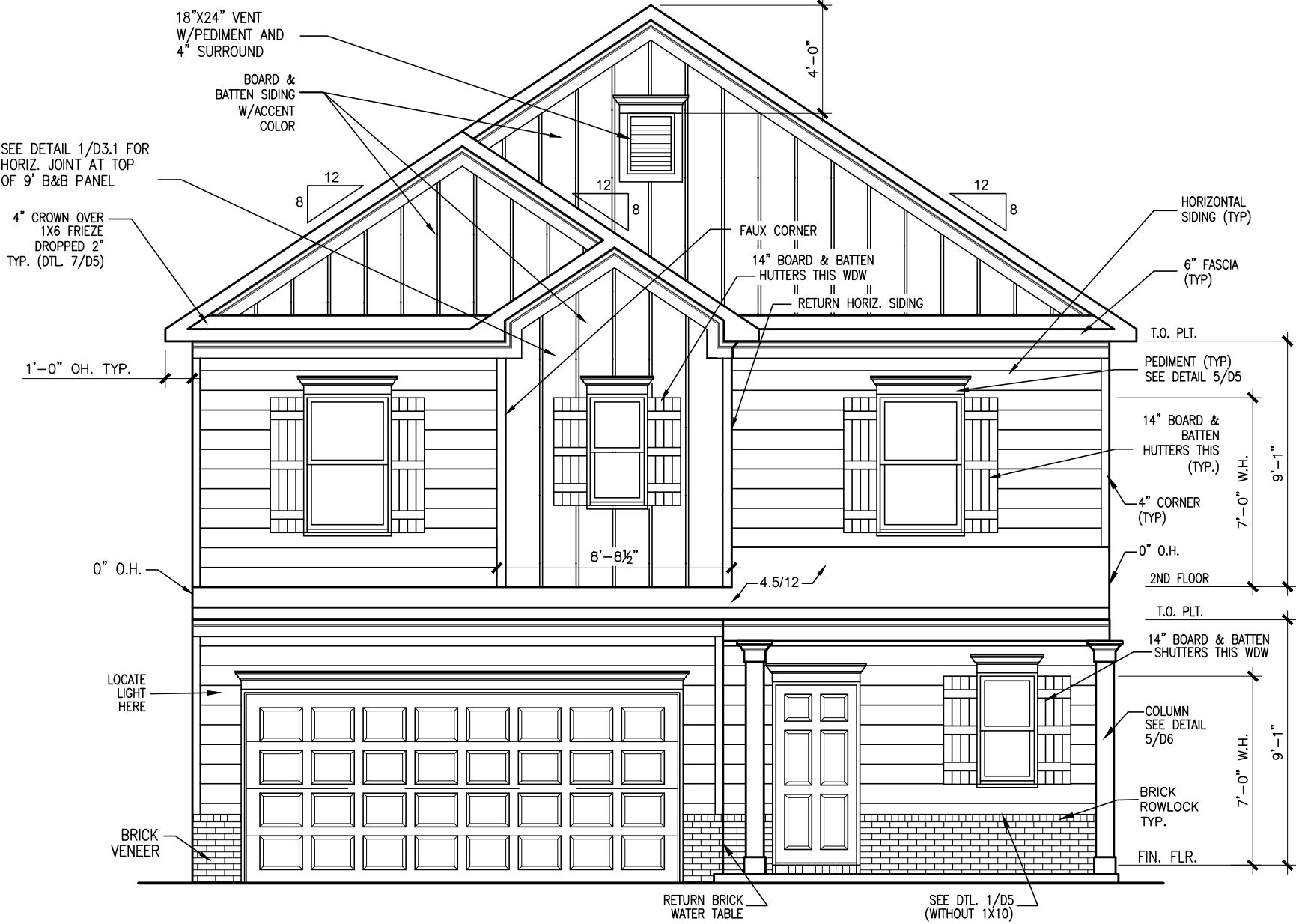
GOVERNMENTAL CODES & STANDARDS
HOME TO BE BUILT TO CONFORM TO ALL APPLICABLE LOCAL CODES, PRACTICES AND STANDARDS

BUILDING CODE ANALYSIS / DESIGN CRITERIA
HOME TO BE BUILT TO MEET OR EXCEED ALL LOCAL CODES AND DESIGN CRITERIA

ALL NON-MASONRY RETURNS TO
BE HORIZONTAL SIDING

SEE SHEET D3 OF SDH TYPICAL
DETAILS FOR SOFFIT DETAILS PER
SOFFIT MATERIAL

CEDAR POINTE
LOT 0029



FRONT ELEVATION "B"

SCALE: 3/16"=1'-0"

BY	REVISION	DATE
#	#	#
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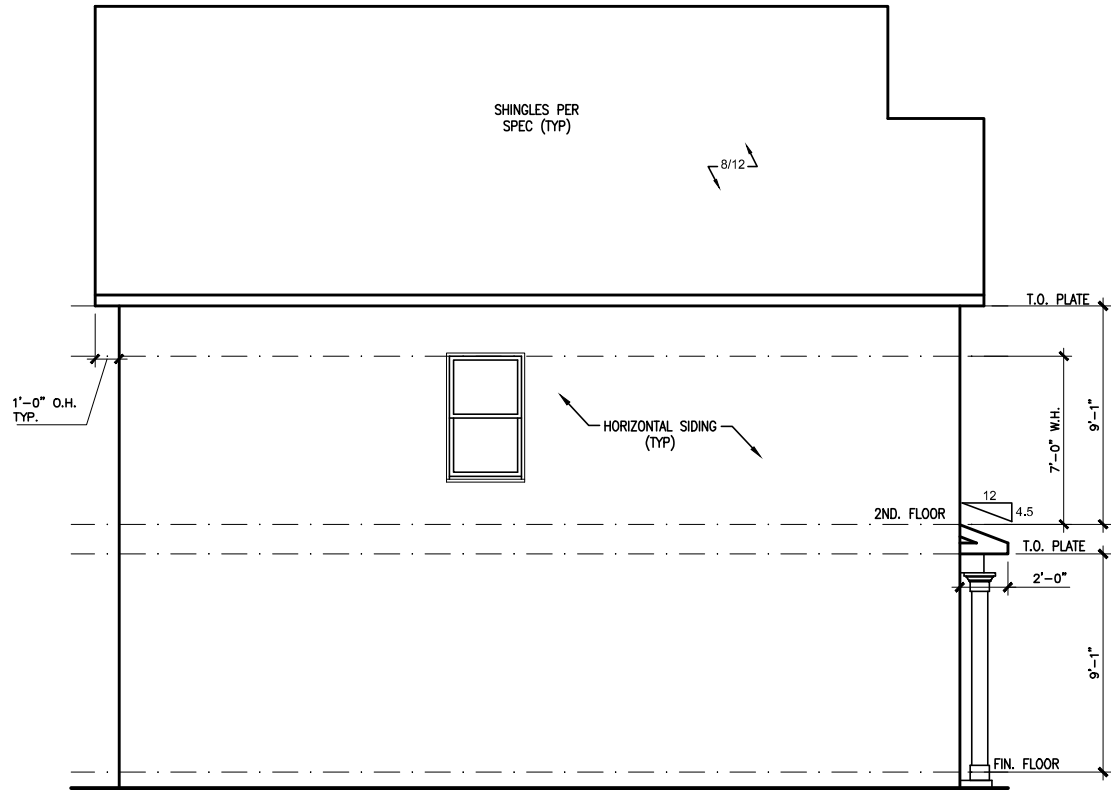


ELEVATIONS
FRONT ELEVATION
BENSON II

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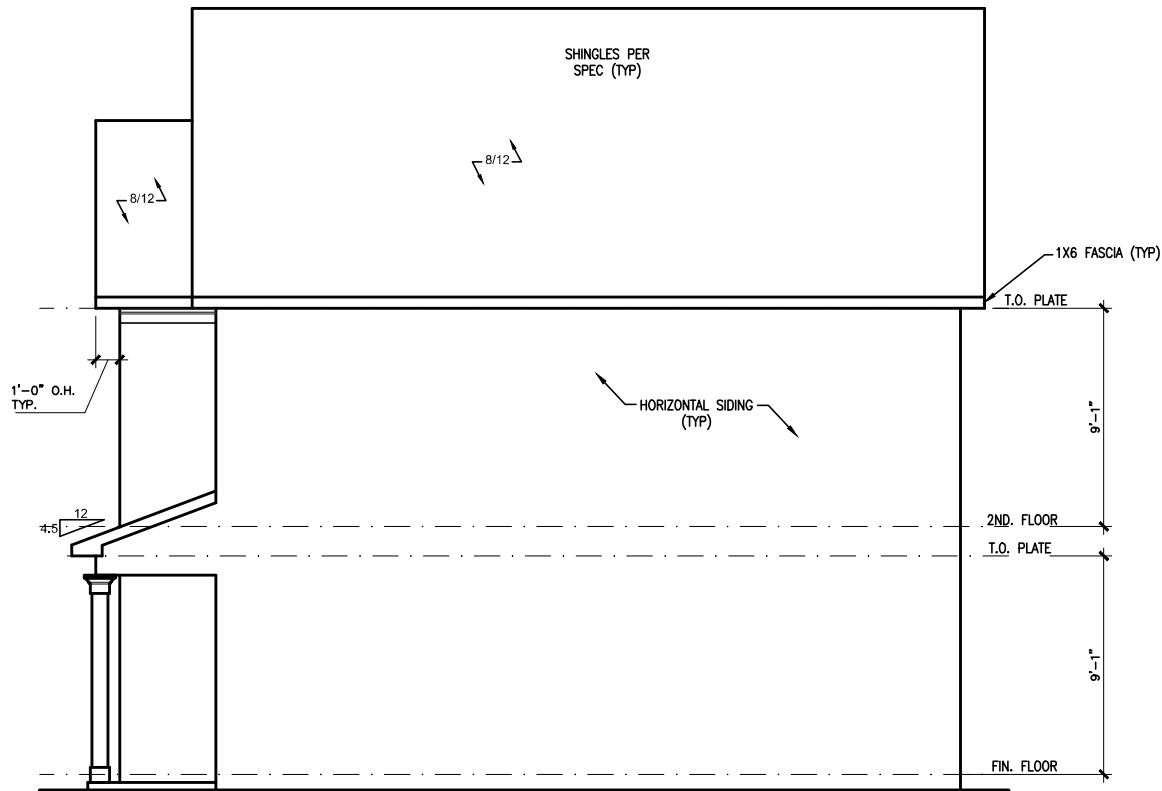
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PAGE NO: A1.1	



LEFT ELEVATION "B"

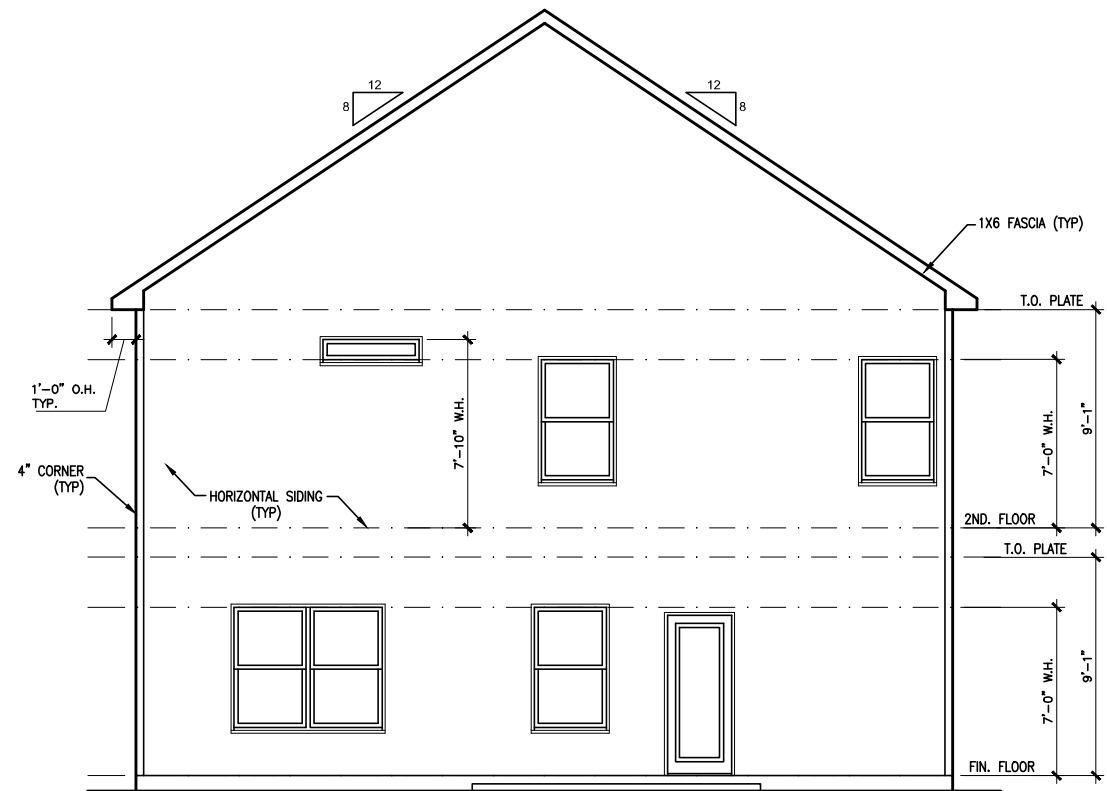
SCALE : 1/8" = 1'-0"



RIGHT ELEVATION "B"

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

CEDAR POINTE LOT 0029



REAR ELEVATION "B"

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

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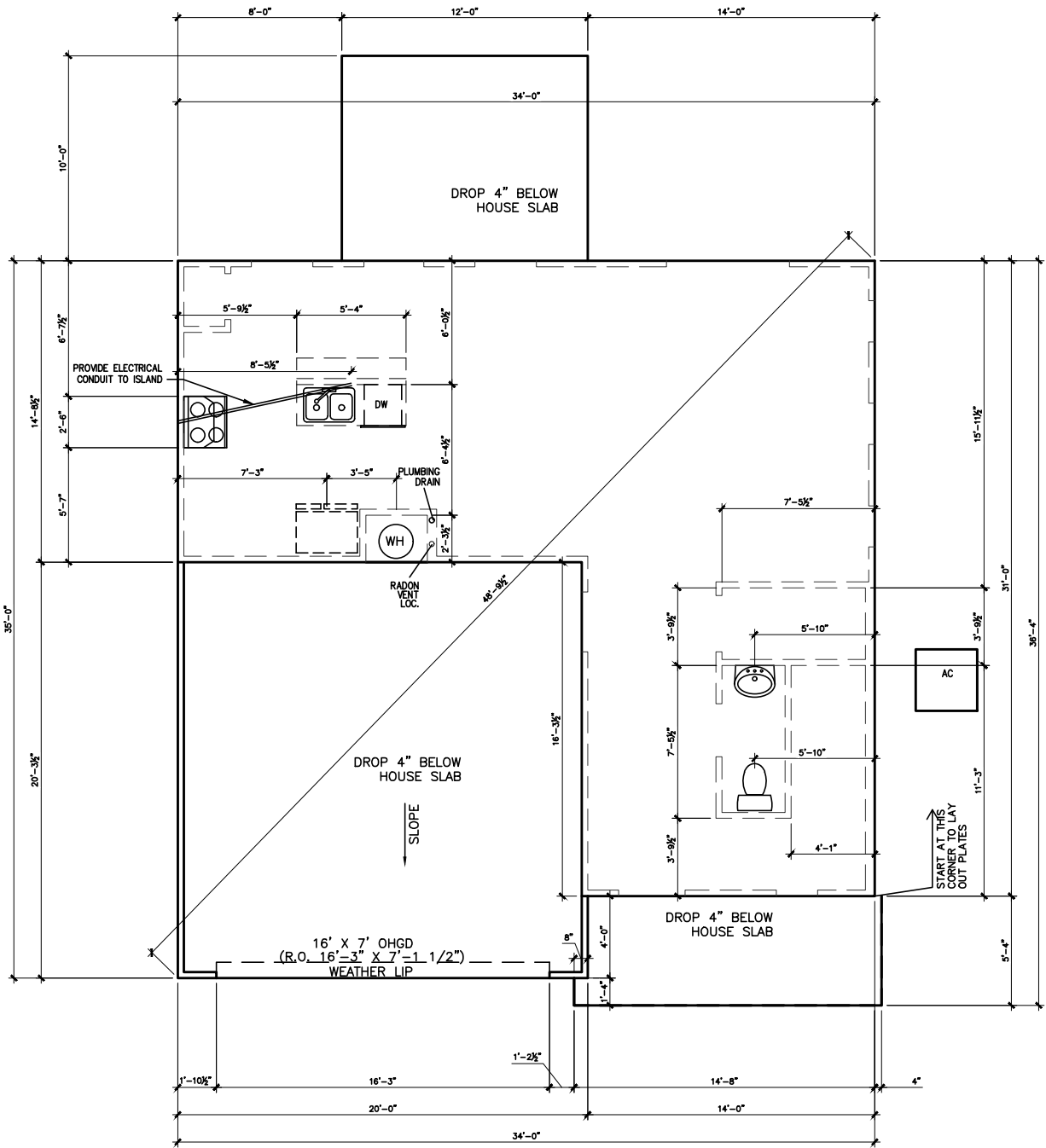
ELEVATIONS
SIDES AND REAR
BENSON II

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PND:	ALL	BLEV:	B
PAGE NO:	A2.1		

CEDAR POINTE
LOT 0029



SLAB PLAN

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

*RADON VENT
PROVIDED PER
LOCAL CODE

REFER TO DETAIL 3/D1
FOR BRICK LEDGE
DETAIL WHEN BRICK
VENEER IS CHOSEN

DATE	BY	REVISION
#	#	#
#	#	#
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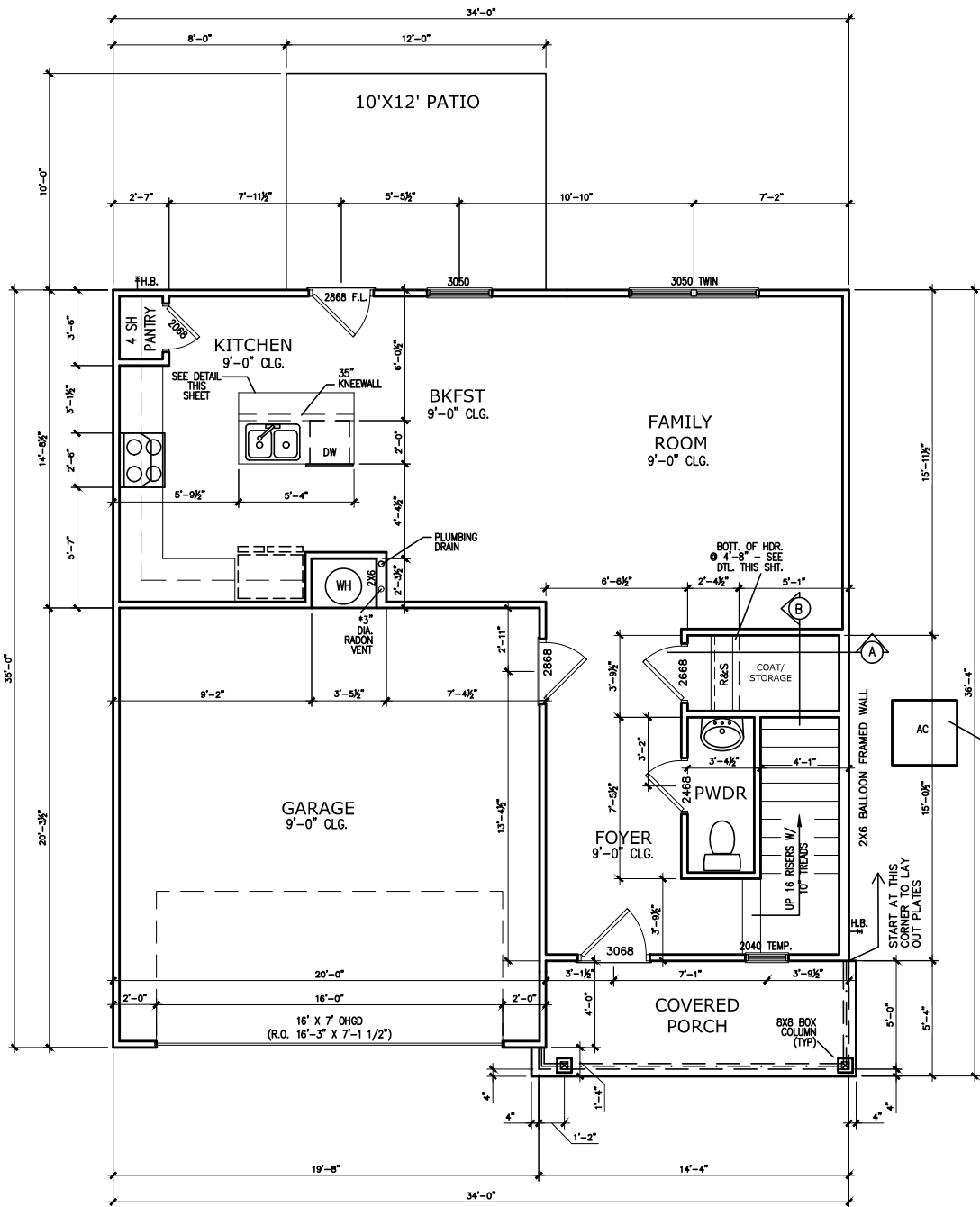
FOUNDATION PLAN
SLAB PLAN
BENSON II

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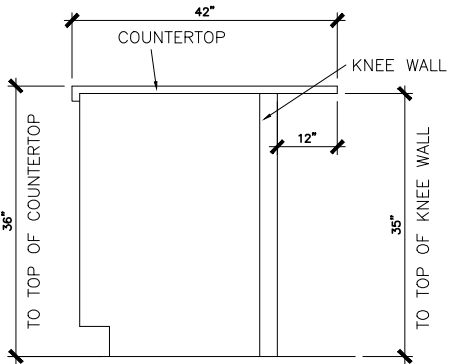
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PLAN ID:	
PND: ALL	RELEV: B
PAGE NO: A3.1	

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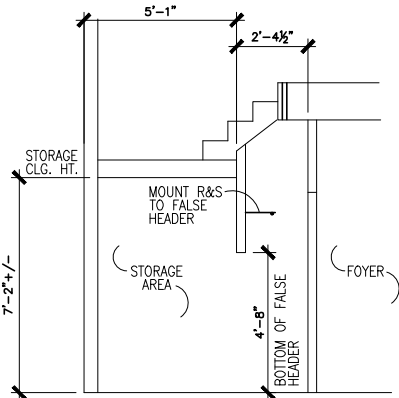


FIRST FLOOR PLAN

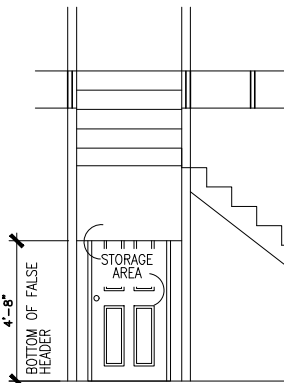
SCALE : 1/8" = 1'-0"



SECTION @ KITCHEN
ISLAND KNEE WALL



VIEW A



VIEW B

SECTIONS AT COAT/STORAGE CLOSET

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FLOOR PLAN

FIRST FLOOR

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SUITE 115

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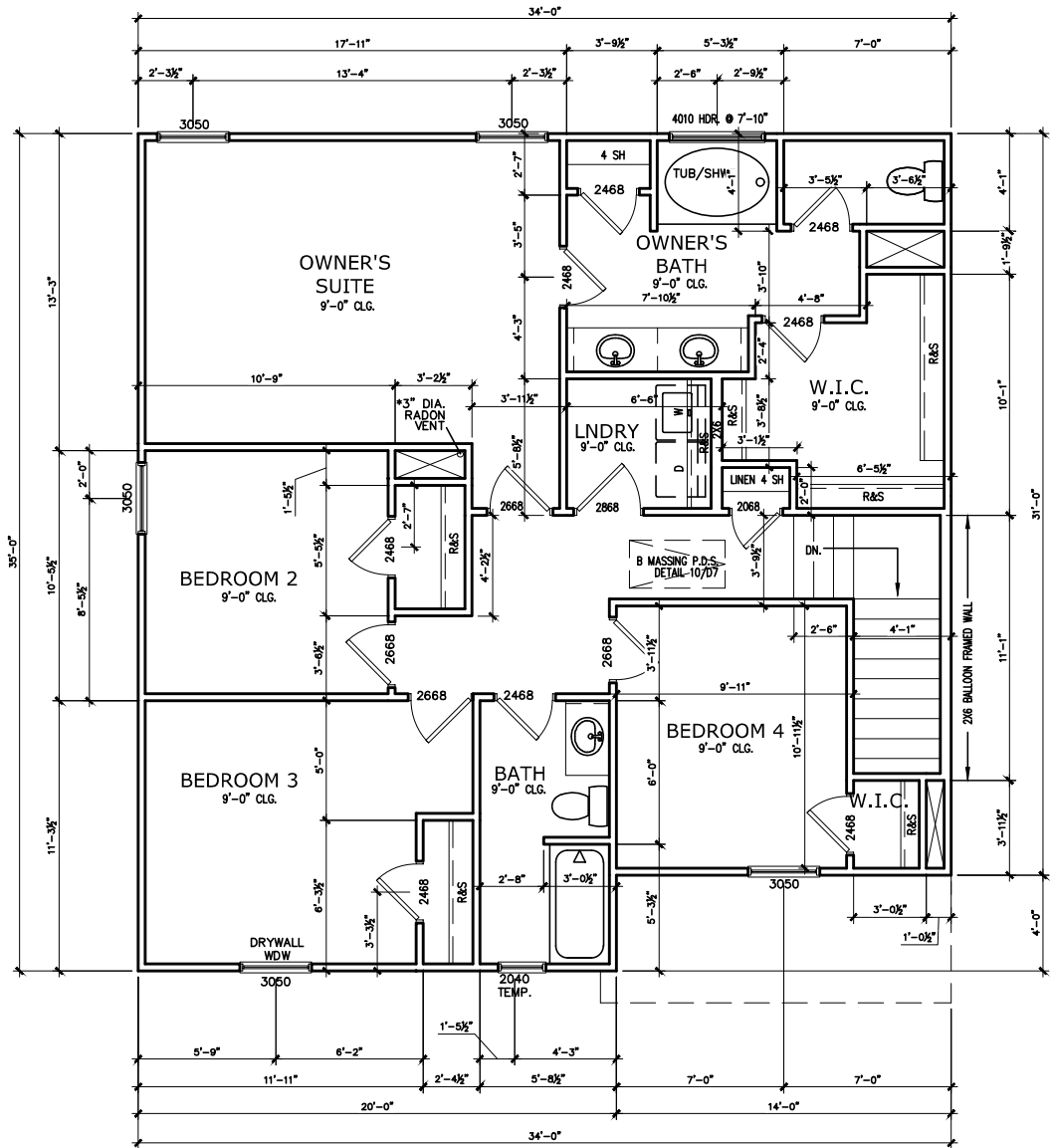
FACADE OPT: B

PLAN ID:

PND: ALL RLEV: B

PAGE NO: A5.1

CEDAR POINTE
LOT 0029



SECOND FLOOR PLAN

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

*RADON VENT PROVIDED
PER LOCAL CODE

REFER TO MANUFACTURER'S SPECS.
FOR DRAIN LOCATIONS ON DETAIL
SHEETS D12, D12.1, D12.2 & D12.3

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#	#	#
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FLOOR PLAN

SECOND FLOOR

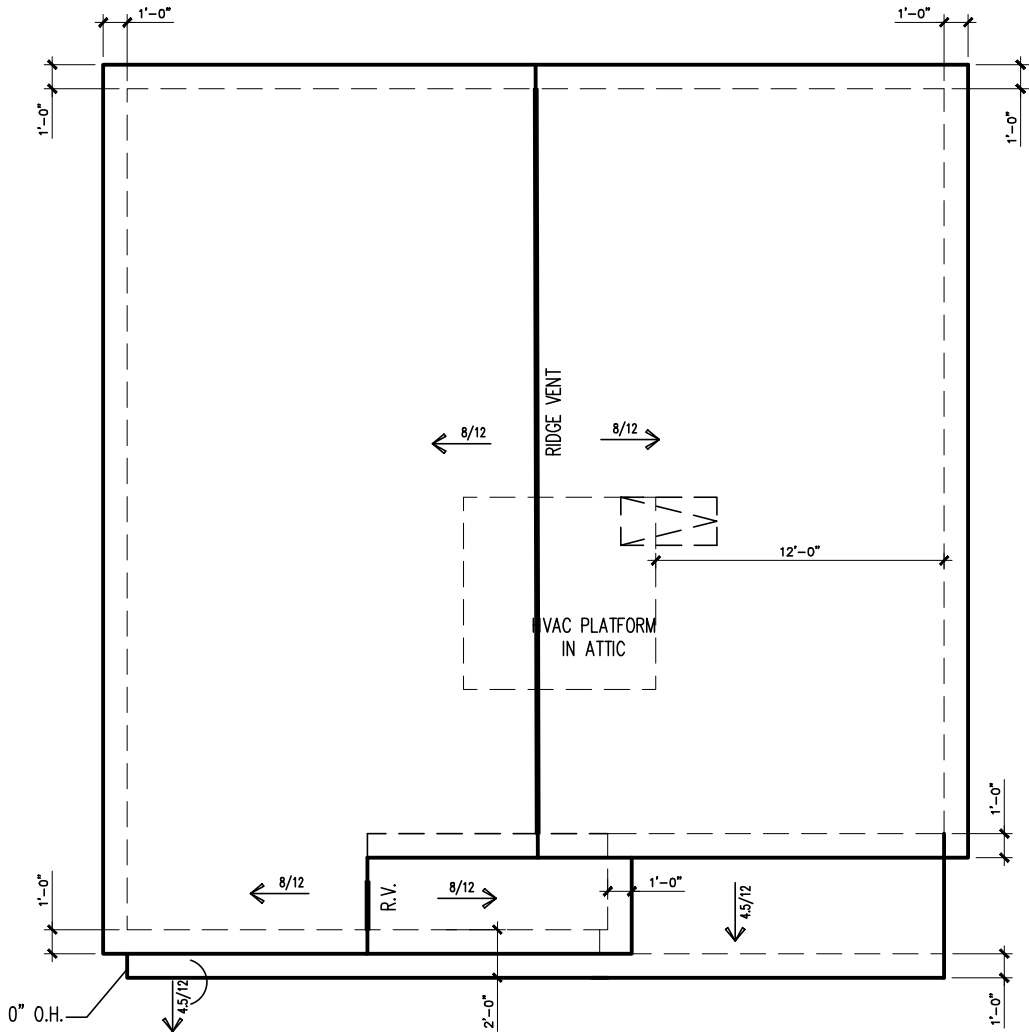
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ROOF LAYOUT "B"
SCALE : 1/8" = 1'-0"

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ROOF PLAN

ROOF PLAN

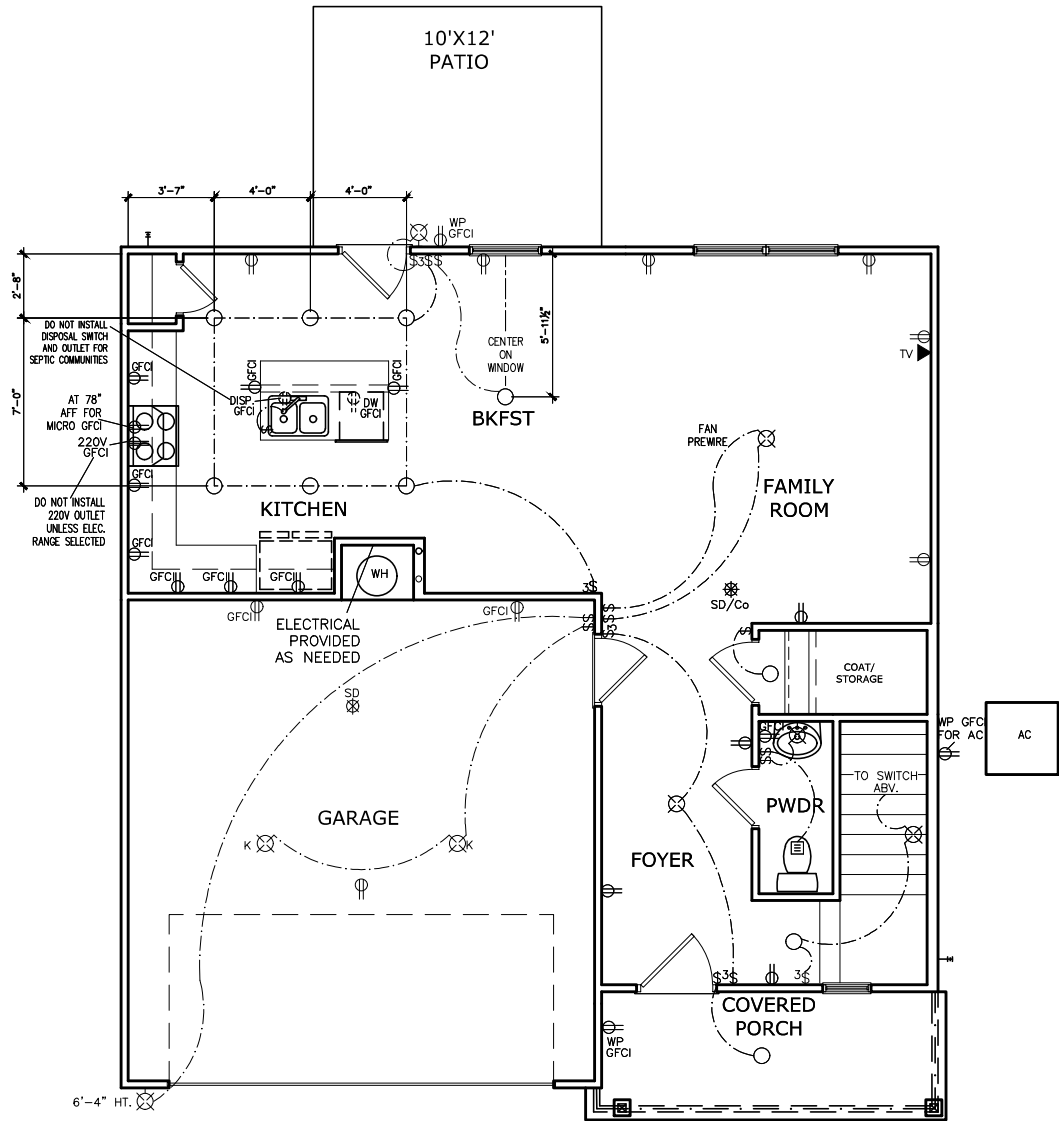
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CEDAR POINTE
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FIRST FLOOR ELECTRICAL PLAN

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

ELECTRICAL LEGEND			
\$	SWITCH	TV	TV
\$3	3 WAY SWITCH	⦿	120V RECEPTACLE
\$4	4 WAY SWITCH	⦿	120V SWITCHED RECEPTACLE
⊗	CEILING FIXTURE	⦿	220V RECEPTACLE
⦿ _K	KEYLESS	⦿ _{GFCI}	GFCI OUTLET
⦿ _W	WALL MOUNT FIXTURE	⦿ _{AFCI}	ARCH FAULT CIRCUIT INTERRUPTER
○	CEILING FIXTURE	† _{GL}	GAS LINE
●	FLEX CONDUIT	† _{WL}	WATER LINE
CH	CHIMES	⌵	HOSE BIBB
PH	TELEPHONE	⦿	FLOOD LIGHT
SD/Co	SMOKE DETECTOR & CARBON MONOXIDE	⦿	1x4 LUMINOUS FIXTURE
SO	SECURITY OUTLET	⦿	CEILING FAN
□	GARAGE DOOR OPENER	—	ELECTRICAL WIRING
⦿	EXHAUST FAN	⦿	CEILING FIXTURE
⦿	FAN/LIGHT		
ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES			
APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)			
BREAKFAST/DINING ROOM	63" ABOVE FINISHED FLOOR		
KITCHEN PENDANT LIGHTS	33" ABOVE COUNTER TOP		
TWO STORY FOYER FIXTURE	96" ABOVE FINISHED FLOOR		
CEILING FAN	96" ABOVE FINISHED FLOOR		
FLOOD LIGHT	10' MAX. ABOVE FIN. FLOOR		

NOTE: FINAL PLACEMENT OF
PHONE/CABLE T.B.D. ON SITE
BY THE BUILDER

BY	REVISION	DATE
#	#	#
#	#	#
#	#	#
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SMITH DOUGLAS HOMES

QUALITY | INTEGRITY | VALUE

ELECTRICAL PLAN

FIRST FLOOR

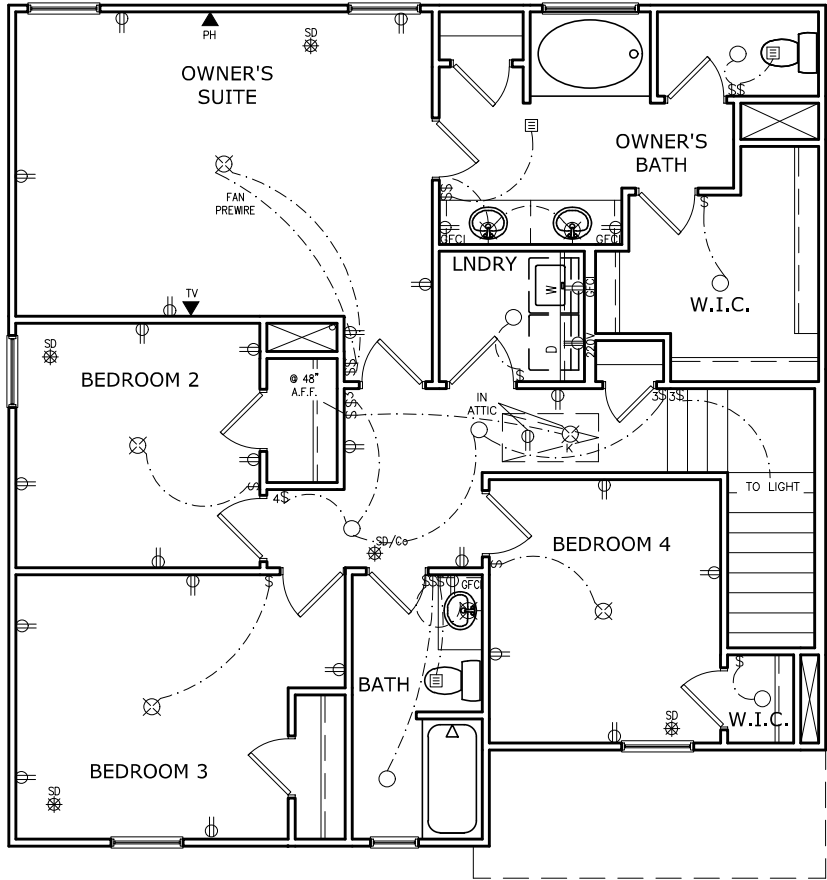
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CEDAR POINTE
LOT 0029



SECOND FLOOR ELECTRICAL PLAN

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

ELECTRICAL LEGEND			
\$	SWITCH	TV	TV
\$3	3 WAY SWITCH	120V	RECEPTACLE
\$4	4 WAY SWITCH	120V	SWITCHED RECEPTACLE
⊗	CEILING FIXTURE	220V	RECEPTACLE
⊕K	KEYLESS	GFCI	GFCI OUTLET
⊗	WALL MOUNT FIXTURE	AFCI	ARCH FAULT CIRCUIT INTERRUPTER
○	CEILING FIXTURE	GL	GAS LINE
●	FLEX CONDUIT	WL	WATER LINE
CH	CHIMES	↓	HOSE BIBB
PH	TELEPHONE	⬆	FLOOD LIGHT
SD/CO	SMOKE DETECTOR & CARBON MONOXIDE	1x4	LUMINOUS FIXTURE
SO	SECURITY OUTLET	⊗	CEILING FAN
□	GARAGE DOOR OPENER		ELECTRICAL WIRING
⊞	EXHAUST FAN	⊕	CEILING FIXTURE
⊞	FAN/LIGHT		
ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES			
APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)			
BREAKFAST/DINING ROOM	63" ABOVE FINISHED FLOOR		
KITCHEN PENDANT LIGHTS	33" ABOVE COUNTER TOP		
TWO STORY FOYER FIXTURE	96" ABOVE FINISHED FLOOR		
CEILING FAN	96" ABOVE FINISHED FLOOR		
FLOOD LIGHT	10' MAX. ABOVE FIN. FLOOR		

NOTE: FINAL PLACEMENT OF
PHONE/CABLE T.B.D. ON SITE
BY THE BUILDER

DATE	BY	REVISION
#	#	#
#	#	#
#	#	#
#	#	#
#	#	#

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ELECTRICAL PLAN

SECOND FLOOR

BENSON II

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110 VILLAGE TRAIL

SUITE 115

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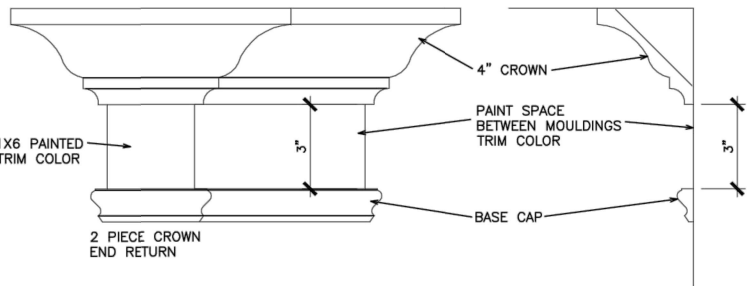
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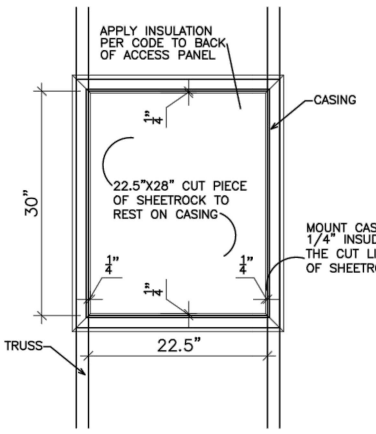
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PAGE NO: A7.3

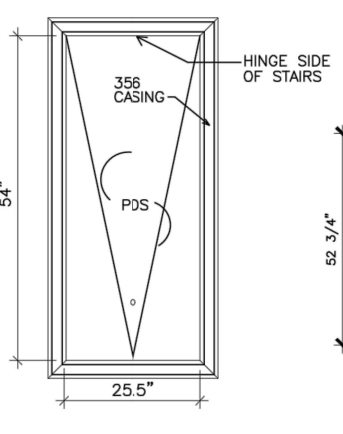
REFER TO LOT SPECIFIC PLAN TO
DETERMINE WHICH DETAILS APPLY



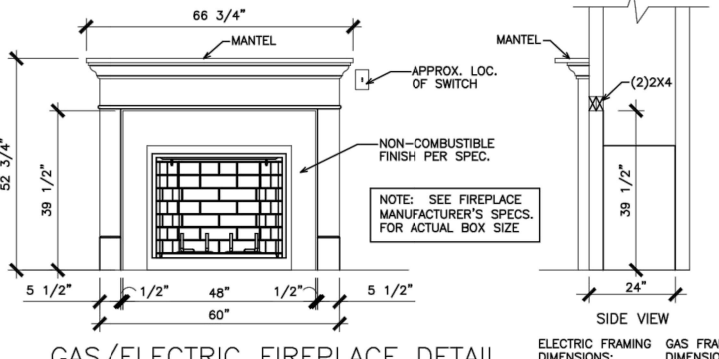
TYPICAL TWO PIECE CROWN
N.T.S.



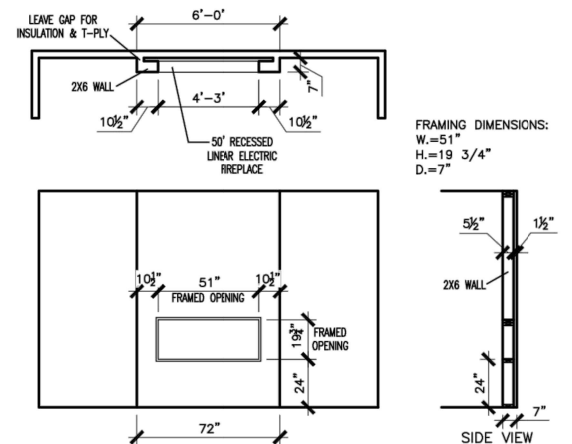
SCUTTLE HOLE DETAIL
N.T.S.



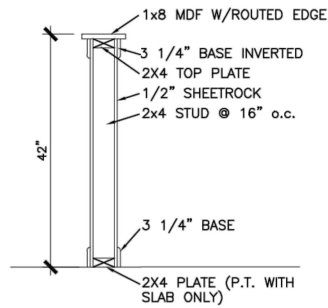
PDS TRIM DETAIL
N.T.S.



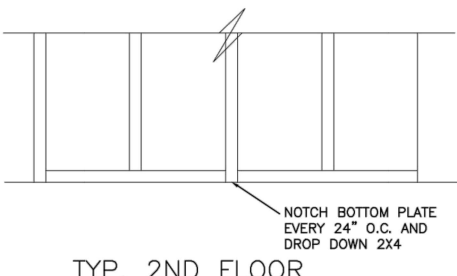
GAS/ELECTRIC FIREPLACE DETAIL
WITH WESCOTT WOOD MANTEL
N.T.S.



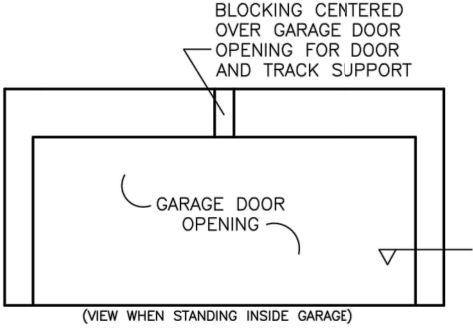
LINEAR ELECTRIC FIREPLACE DETAIL
N.T.S.



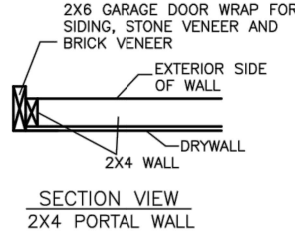
TYP. KNEEWALL SECTION
N.T.S.



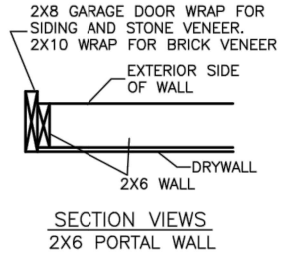
TYP. 2ND FLOOR
KNEE WALL STABILITY
N.T.S.



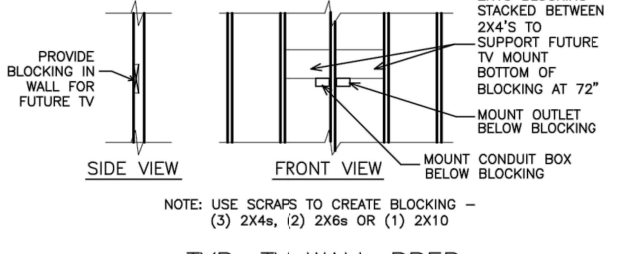
TYP. GARAGE WRAP & BLOCKING
N.T.S.



SECTION VIEW
2X4 PORTAL WALL

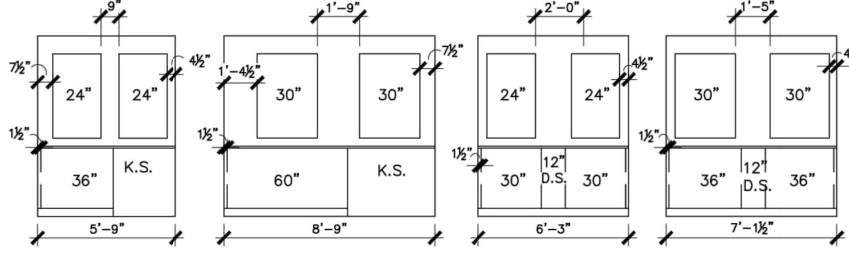


SECTION VIEWS
2X6 PORTAL WALL

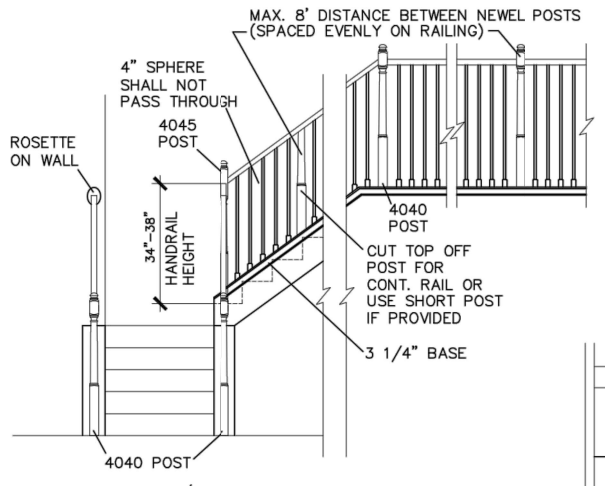


TYP. TV WALL PREP
N.T.S.

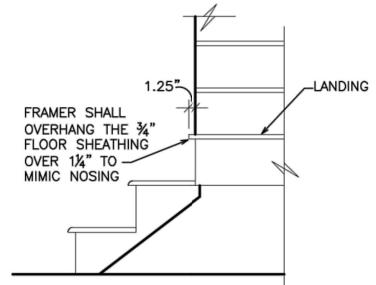
1. MIRRORS ARE TO BE CENTERED ON THE CABINET OR KNEESPACE BELOW.
2. SPACE BETWEEN MIRROR AND WALL/CABINET END, MAY NOT MATCH ON EACH SIDE
3. MIRRORS ARE LIMITED TO 2 SIZES: 24" & 30"
 - a. VANITIES 30" & SMALLER RECEIVE THE 24" WIDE MIRROR.
 - b. VANITIES 33" & LARGER RECEIVE THE 30" WIDE MIRROR.
 - c. HEIGHTS DO NOT CHANGE.
 - d. SEE P.O. FOR EXACT WIDTH.
4. SEE THE BELOW EXAMPLE DRAWINGS. DIMENSIONS ARE APPROXIMATE.



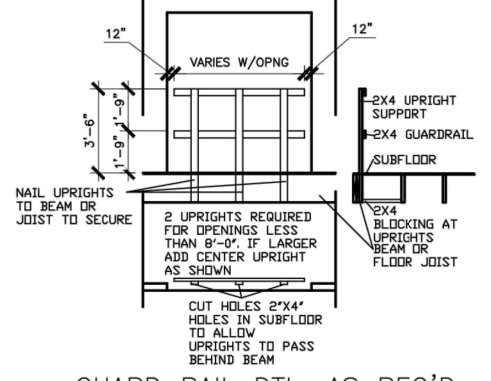
TYPICAL SPLIT MIRROR SCENARIOS
N.T.S.



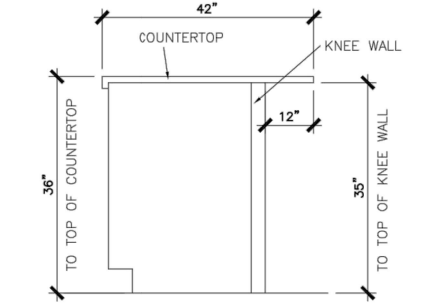
HANDRAIL/POST DETAIL @ STAIRS
N.T.S.



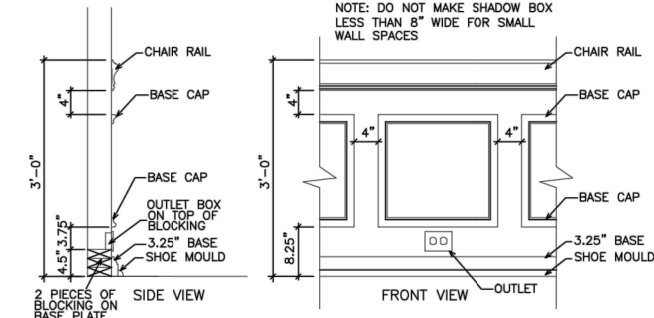
BOX STEP OVERHANG
N.T.S.



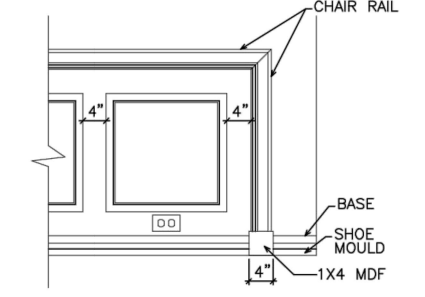
GUARD RAIL DTL. AS REQ'D
N.T.S.



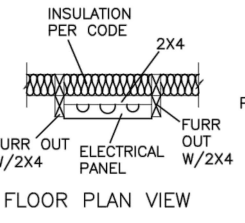
SECTION @ ISLAND KNEEWALL
N.T.S.



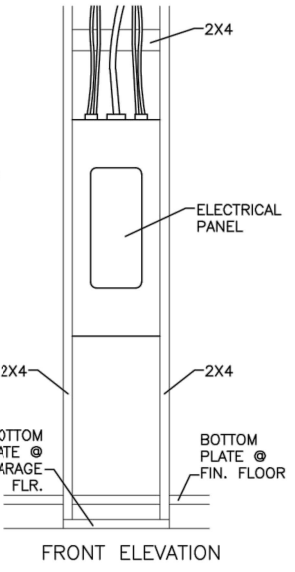
TYPICAL CHAIR RAIL & SHADOW BOX DETAIL
N.T.S.



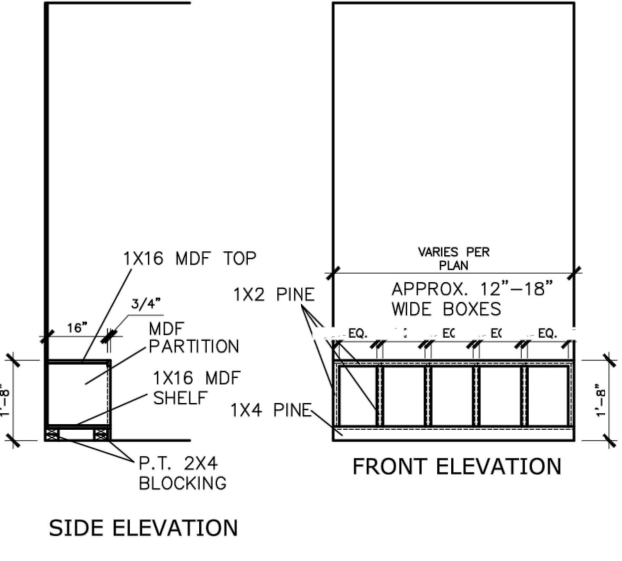
CHAIR RAIL END TRIM DETAIL
N.T.S.



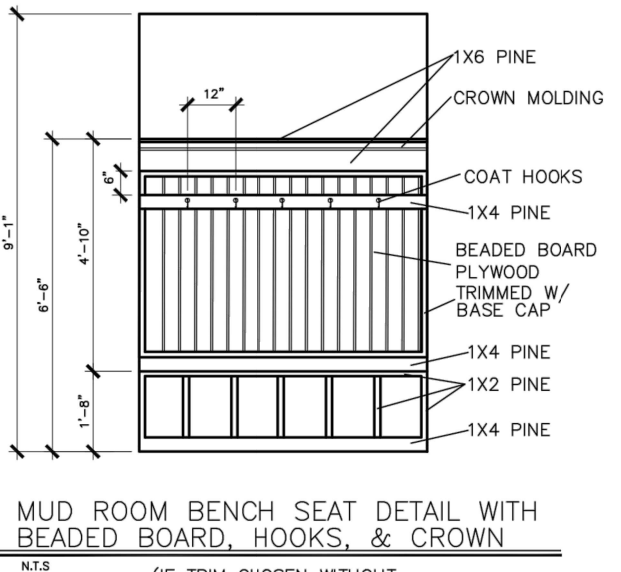
ELECTRICAL PANEL DETAIL
N.T.S.



MUD ROOM BENCH SEAT DETAIL
N.T.S.



SIDE ELEVATION



MUD ROOM BENCH SEAT DETAIL WITH
BEADED BOARD, HOOKS, & CROWN
N.T.S.

(IF TRIM CHOSEN WITHOUT
BENCH CONTINUE TO FLOOR)
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BY					
REVISION					
DATE					

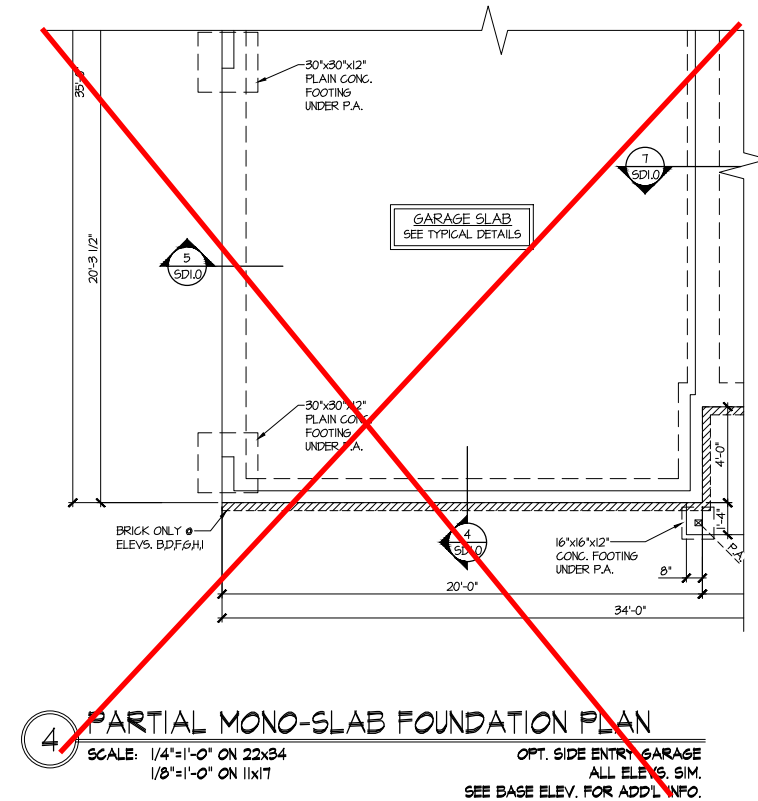
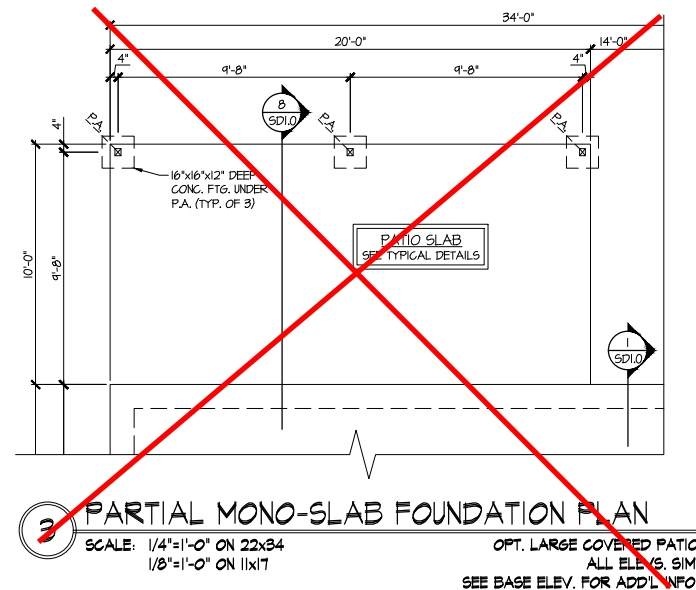
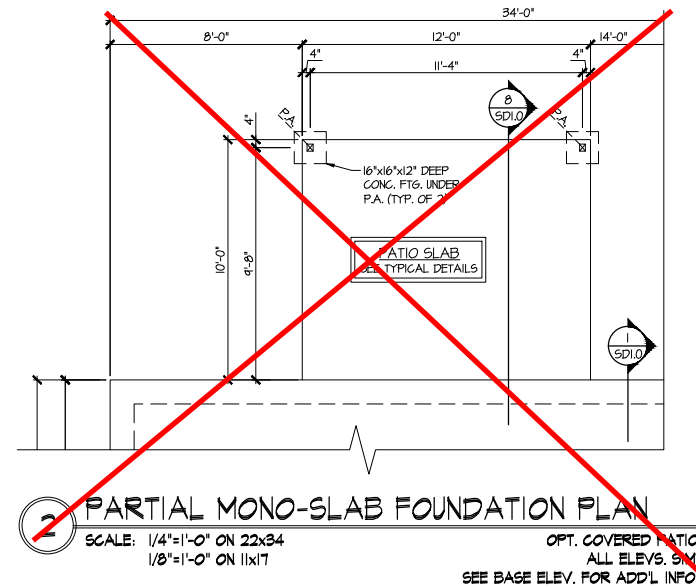
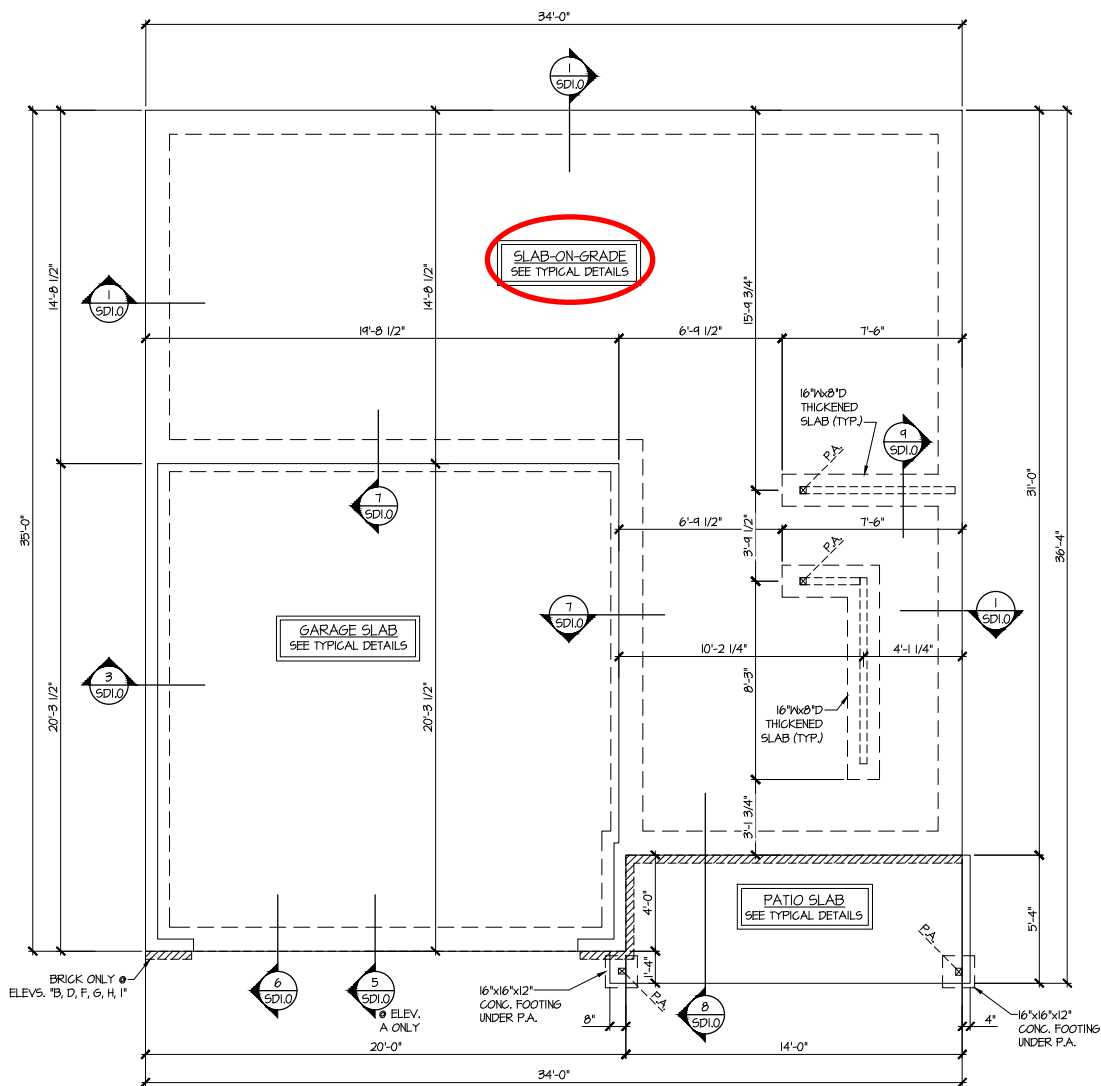
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INTERIOR TRIM
DETAILS

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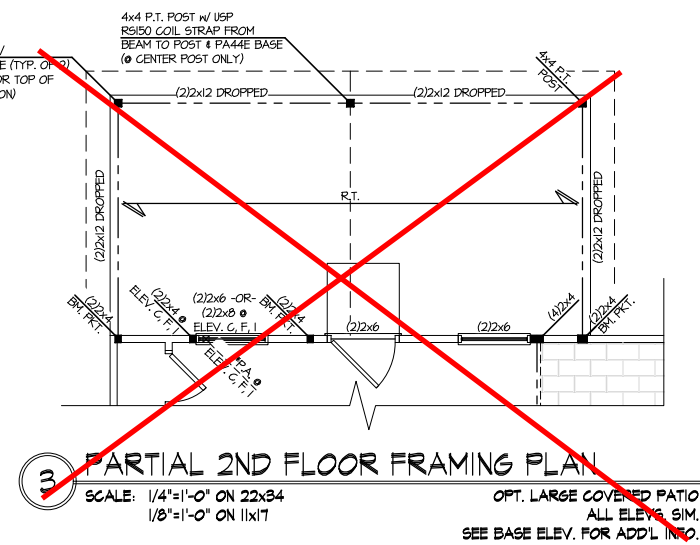
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FACADE OPT:	
PLAN ID:	
FIN:	ELEV:
PAGE NO:	D1.1



Cedar Pointe
LOT 29

REFER TO S.O. FOR TYPICAL
STRUCTURAL NOTES & SCHEDULES










LEGEND	
	INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)
	INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. U.N.O.)
	INDICATES 14" DEEP FLOOR I-JOISTS @ 24" O.C. MAX. JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. NOTE: 14" FLOOR TRUSSES @ 24" O.C. MAX. IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM.
	INDICATES LOCATIONS OF POTENTIAL TILE FLOOR. JOIST MANUFACTURER SHALL DESIGN FLOOR SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS.
	INTERIOR BEARING WALL
	BEARING WALL ABOVE (B.W.A.)
	BEAM/HEADER
	METAL HANGER
	INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.



THIS LEVEL HAS BEEN DESIGNED
FOR 9'-1" PLATE HEIGHT

REFER TO 50.0 FOR TYPICAL
STRUCTURAL NOTES & SCHEDULES

LEGEND

<ul style="list-style-type: none">●  R.T.●  O.F.●  F.J.● ● ● ● ● ● 	<p>INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)</p> <p>INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. U.N.O.)</p> <p>INDICATES 14" DEEP FLOOR I-JOISTS @ 24" O.C. MAX. JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER NOTE: 14" FLOOR TRUSSES @ 24" O.C. MAX. IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM</p> <p>INDICATES LOCATIONS OF POTENTIAL TILE FLOOR. JOIST MANUFACTURER SHALL DESIGN FLOOR SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS.</p> <p>INTERIOR BEARING WALL</p> <p>BEARING WALL ABOVE (B.W.A.)</p> <p>BEAM/HEADER</p> <p>11 METAL HANGER</p> <p>INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.</p>
--	---

LATERAL/WALL BRACING & WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:
120MPH WIND IN 2018 NC SBC:RC & 120MPH WIND IN 2018 IRC
(120 MPH WIND SPEED IN ASCE 7 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 & 2018 IBC SECTION 1609 & ASCE 7, AS PERMITTED BY R301.1.3 OF THE 2018 NC SBC:RC & 2018 IRC. 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 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NC SBC:RC & 2018 IRC SECTION R602.1.1.1.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5 & R602.11.

MK STD. - MAR 2016

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD:
FASTEN SHEATHING w/ 2 3/8"x0.113 NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD. (TYP. UNO.)
- ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE FASTENING.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1 3/4" 16 GA STAPLES (1/16" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C. IN FIELD.

3" O.C. EDGE NAILING

- AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING w/ 2 3/8" x 0.113" NAILS @ 3" O.C. AND 12" O.C. IN THE PANEL FIELD. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUD) 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, UNO.
- 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 SHEARWALL, AND/OR 3" O.C. EDGE NAILING

INDICATES HOLDOWN

MK STD. - MAR 2016

Cedar Pointe
LOT 29

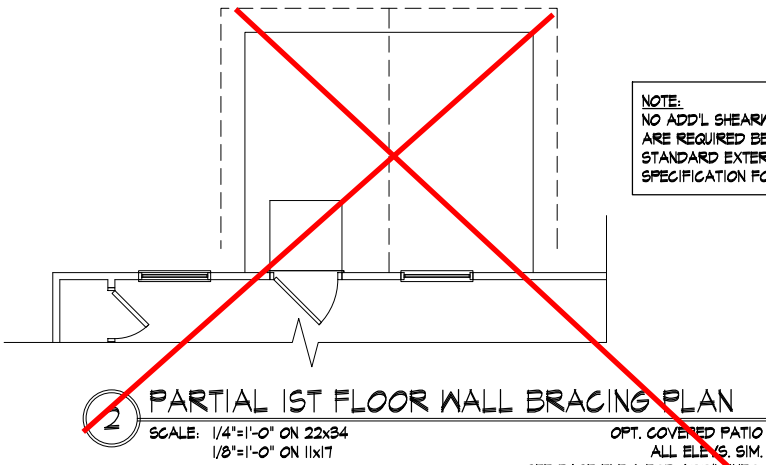
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REFER TO S.O. FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

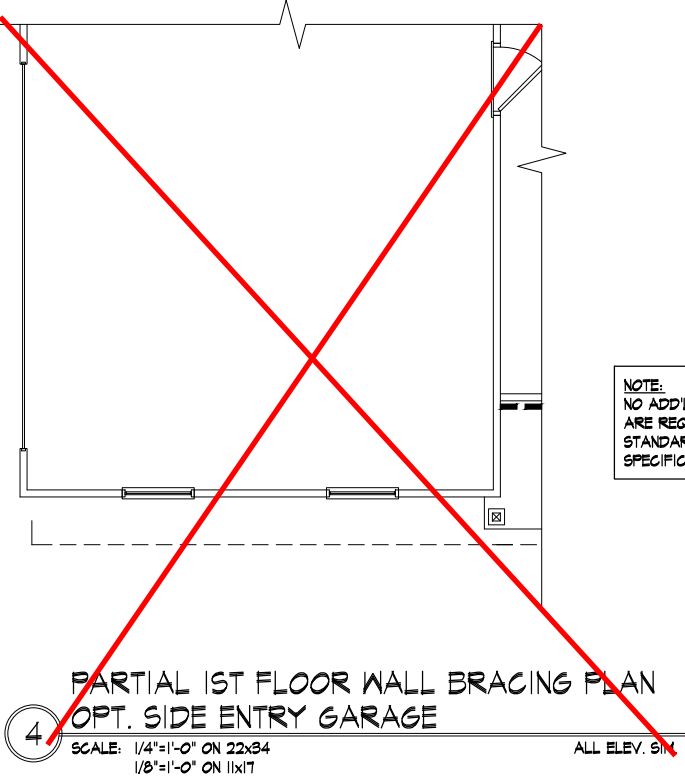
LEGEND

- R.T. INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. UNO.)
- O.F. INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. UNO.)
- F.J. INDICATES 14" DEEP FLOOR I-JOISTS @ 24" O.C. MAX. JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. NOTE: 14" FLOOR TRUSSES @ 24" O.C. MAX. IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM.
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- BEARING WALL ABOVE (B.W.A.)
- BEAM/HEADER
- METAL HANGER
- INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

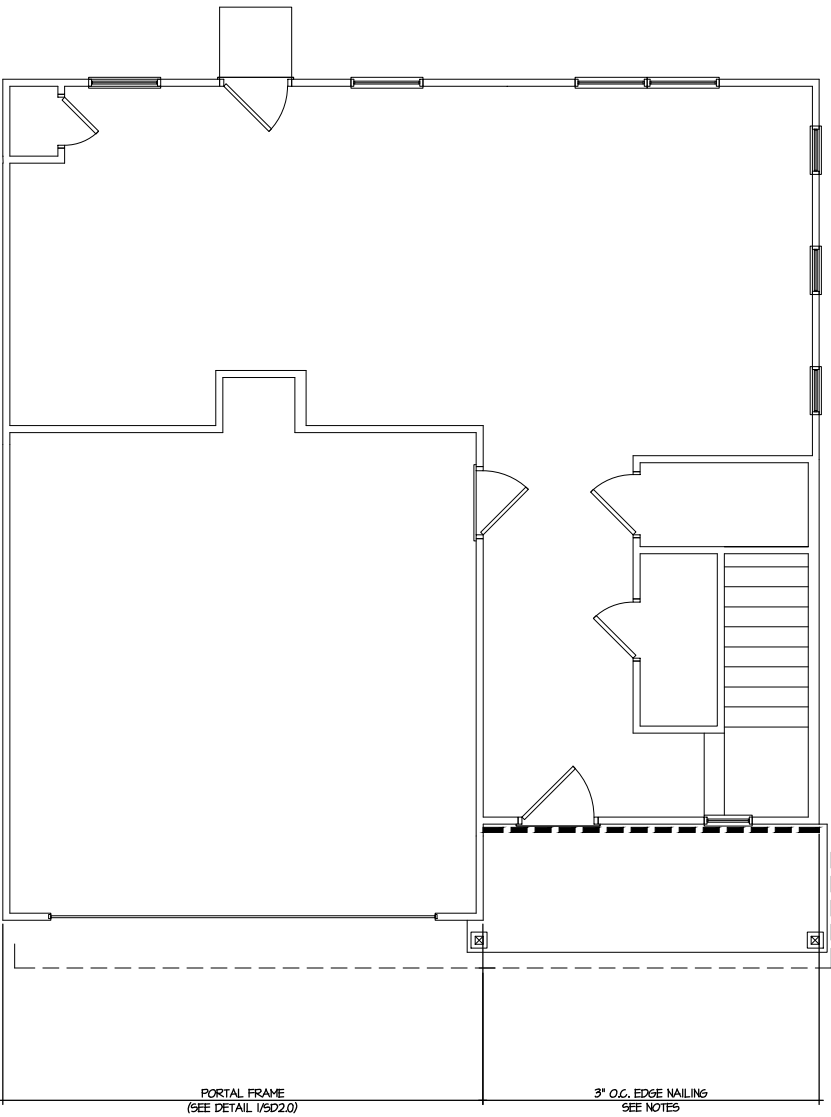
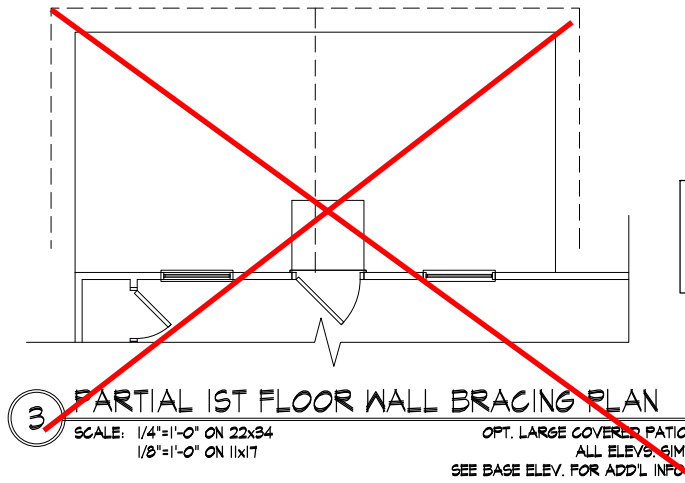
NOTE:
NO ADD'L SHEARWALL REQUIREMENTS ARE REQUIRED BEYOND THE STANDARD EXTERIOR WALL SHEATHING SPECIFICATION FOR THIS OPTION



NOTE:
NO ADD'L SHEARWALL REQUIREMENTS ARE REQUIRED BEYOND THE STANDARD EXTERIOR WALL SHEATHING SPECIFICATION FOR THIS OPTION



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
Cedar Pointe
LOT 29

THIS LEVEL HAS BEEN DESIGNED
FOR 9'-1" PLATE HEIGHT

REFER TO S.O.0 FOR TYPICAL
STRUCTURAL NOTES & SCHEDULES


LEGEND

•




INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)

•




INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. U.N.O.)

•




INDICATES 14" DEEP FLOOR I-JOISTS @ 24" O.C. MAX. JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. NOTE: 14" FLOOR TRUSSES @ 24" O.C. MAX. IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM

•




INDICATES LOCATIONS OF POTENTIAL TILE FLOOR. JOIST MANUFACTURER SHALL DESIGN FLOOR SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS.

•




INTERIOR BEARING WALL

•




BEARING WALL ABOVE (B.W.A.)

•




BEAM/HEADER

•

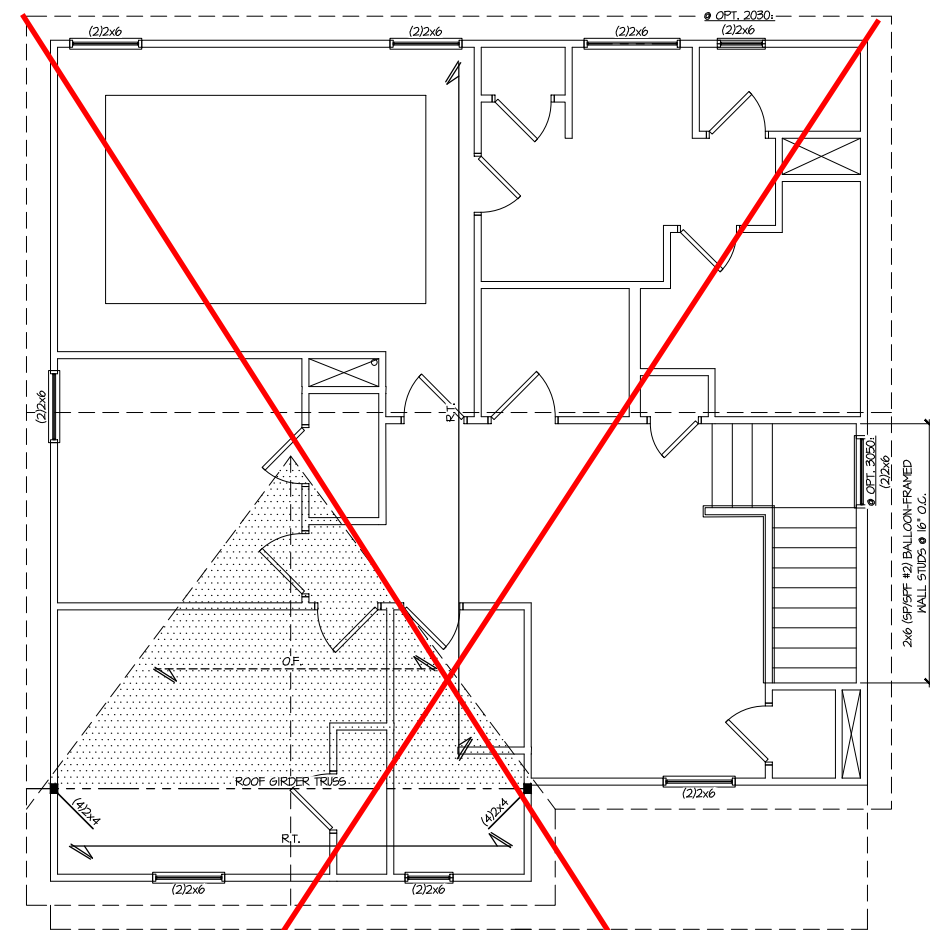


METAL HANGER

•



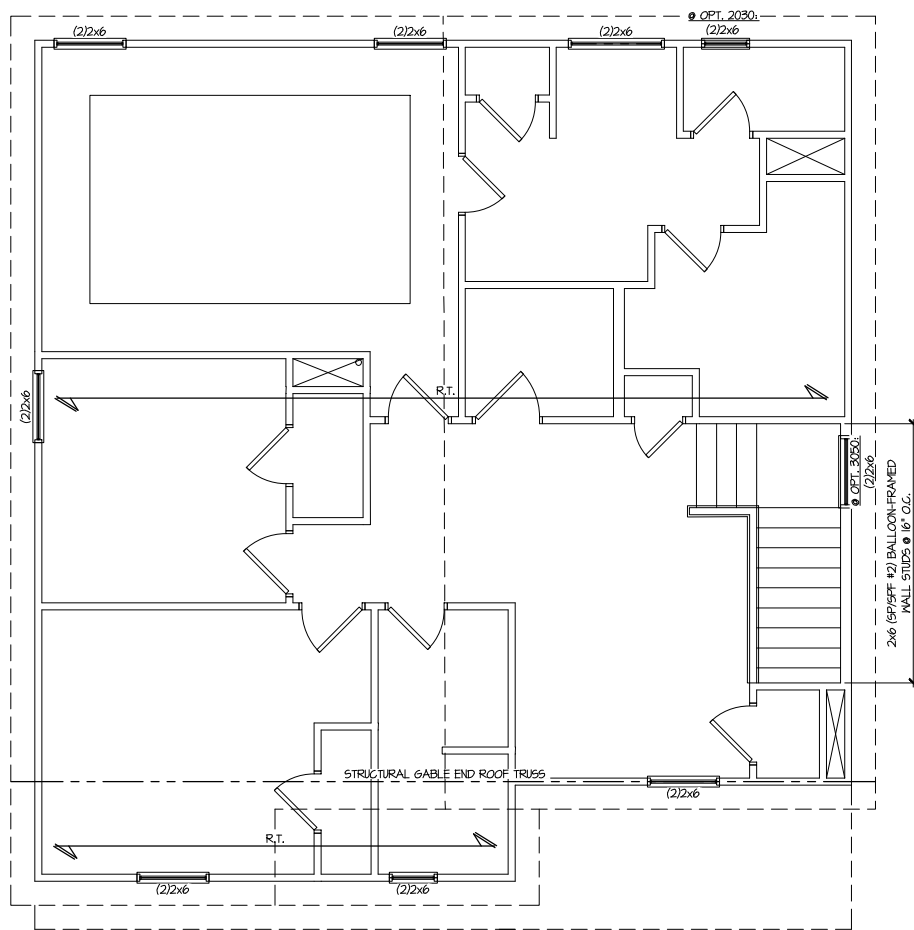
INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.



ROOF FRAMING PLAN

SCALE: 1/4"=1'-0" ON 22x34
1/8"=1'-0" ON 11x17

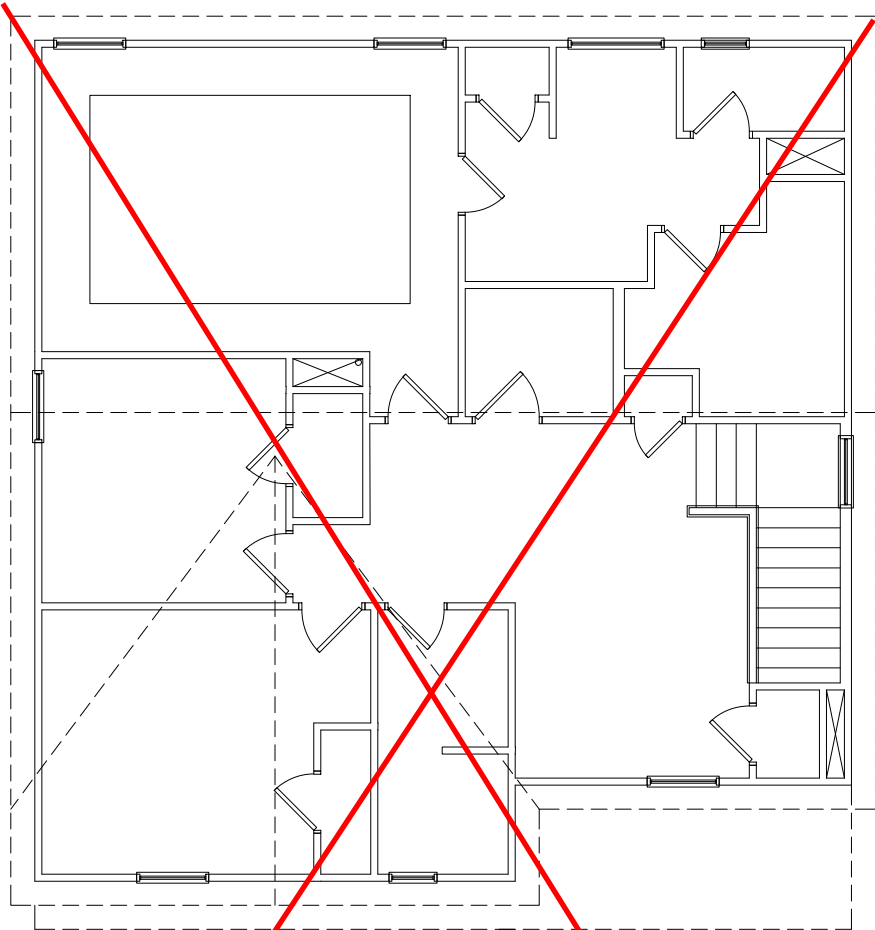
ELEV. A
ELEVS. D & G SIM.



2 ROOF FRAMING PLAN

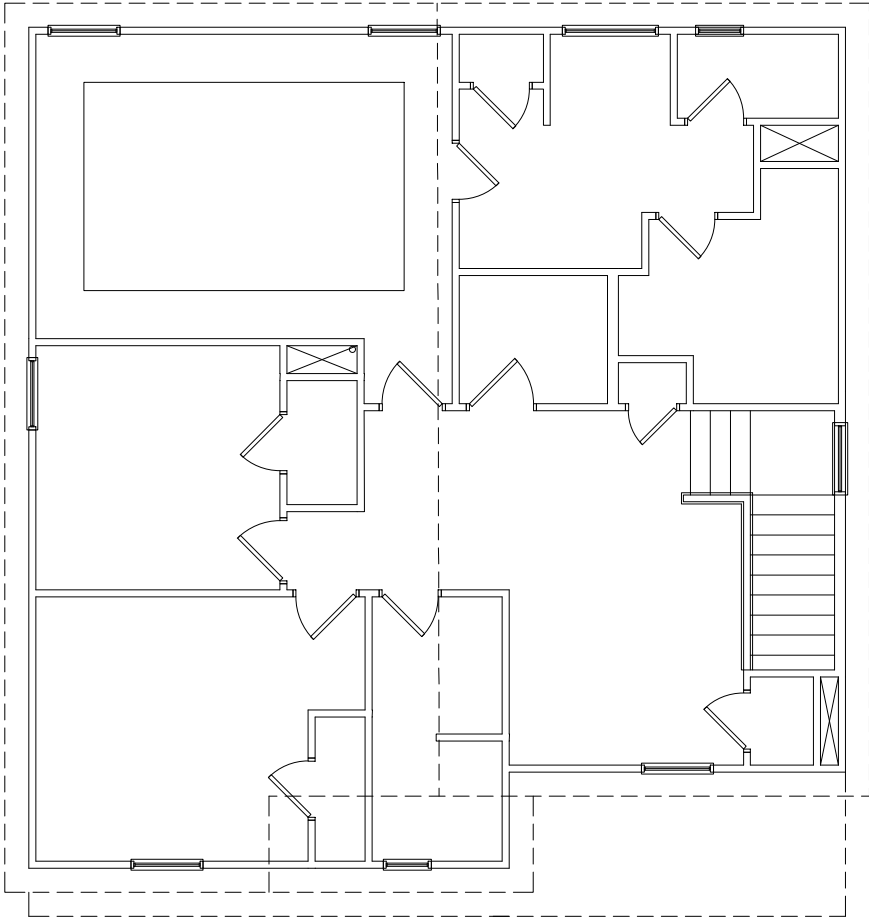
SCALE: 1/4"=1'-0" ON 22x34
1/8"=1'-0" ON 11x17

ELEV. B
ELEVS. E & H SIM.



NOTE:
NO ADD'L SHEARWALL REQUIREMENTS
ARE REQUIRED BEYOND THE
STANDARD EXTERIOR WALL SHEATHING
SPECIFICATION FOR THIS ELEVATION

2ND FLOOR WALL BRACING PLAN
SCALE: 1/4"=1'-0" ON 22x34
1/8"=1'-0" ON 11x17
ELEV. A
ELEVS. D & H SIM.



NOTE:
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ARE REQUIRED BEYOND THE
STANDARD EXTERIOR WALL SHEATHING
SPECIFICATION FOR THIS ELEVATION

2ND FLOOR WALL BRACING PLAN
SCALE: 1/4"=1'-0" ON 22x34
1/8"=1'-0" ON 11x17
ELEV. B
ELEVS. E & H SIM.

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MLK STD. - MAR 2016

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INDICATES EXTENT OF INT. OSB SHEARWALL, AND/OR 3" O.C. EDGE NAILING

INDICATES HOLDOWN

MLK STD. - MAR 2016

Cedar Pointe
LOT 29

THIS LEVEL HAS BEEN DESIGNED
FOR 9'-1" PLATE HEIGHT

REFER TO S.O. FOR TYPICAL
STRUCTURAL NOTES & SCHEDULES

LEGEND

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- JL METAL HANGER
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7/14/23
Seal: SHAUN KREIDEL
Professional Engineer
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Structural Engineering, Inc.

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RESIDENTIAL STRUCTURAL ENGINEERING
3825 Shallowford Parkway, Suite 105 • Alpharetta, GA 30022
970-777-8874 • mulhern+kulp.com
NC License # C-3825

Mulhern+Kulp project number:
256-22019

project mgr: SMK
drawn by: RAP
issue date: 01.13.2023

REVISIONS:
date: initial:

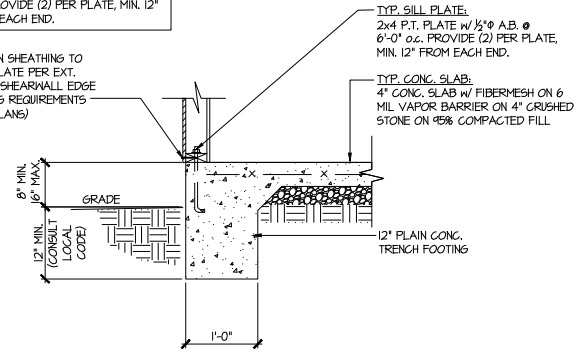
SMITH DOUGLAS
HOMES

2ND FLOOR WALL BRACING PLAN
BENSON II MODEL
120 MPH WIND ZONE
NORTH CAROLINA

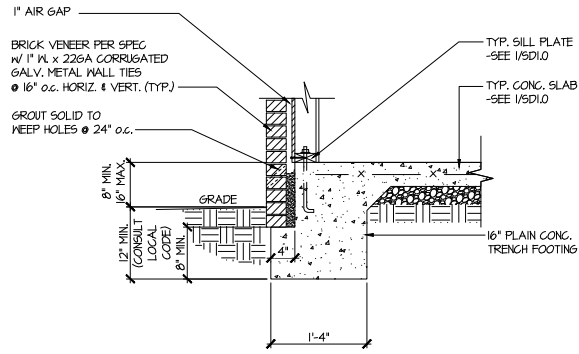
Sheet:
S3.0LM

ALT. TO ANCHOR BOLTS:
USE FA4 MUDSILL ANCHORS @ 6'-0"
o.c. PROVIDE (2) PER PLATE, MIN. 12"
FROM EACH END.

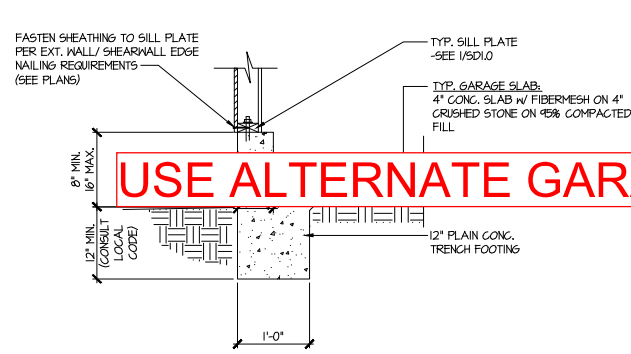
FASTEN SHEATHING TO
SILL PLATE PER EXT.
WALL/ SHEARWALL EDGE
NAILING REQUIREMENTS
(SEE PLANS)



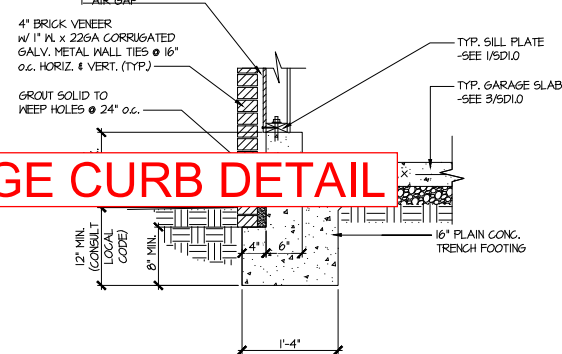
1 TYPICAL SLAB ON GRADE
PERIMETER FOOTING



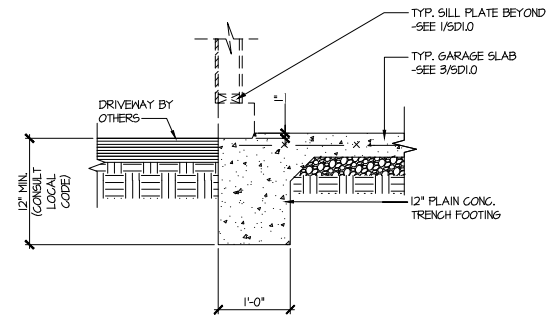
2 TYPICAL SLAB ON GRADE
PERIMETER FOOTING
w/ BRICK VENEER



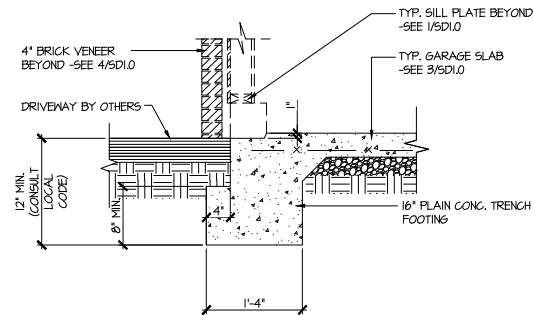
3 TYPICAL SLAB ON GRADE GARAGE
PERIMETER FOOTING



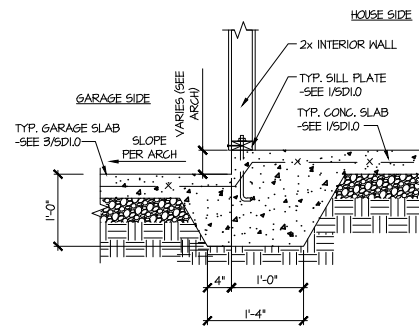
4 TYPICAL SLAB ON GRADE GARAGE
PERIMETER FOOTING
w/ BRICK VENEER



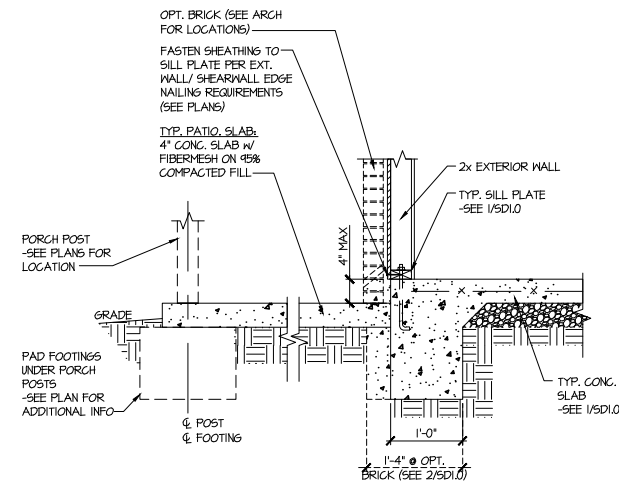
5 TYPICAL SLAB ON GRADE GARAGE
ENTRY @ PERIMETER FOOTING



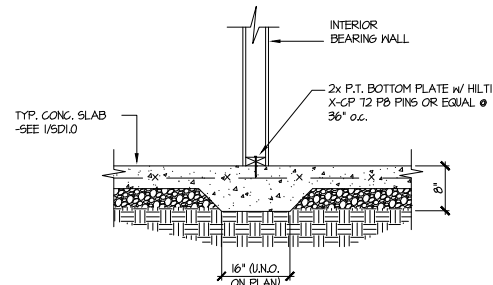
6 TYPICAL SLAB ON GRADE GARAGE
ENTRY @ PERIMETER FOOTING
w/ BRICK VENEER



7 TYPICAL MONOLITHIC INTERIOR
GARAGE FOOTING



8 TYPICAL SLAB ON GRADE PERIMETER
FOOTING @ PORCH/PATIO



9 TYPICAL THICKENED SLAB @
INTERIOR BEARING WALL

USE ALTERNATE GARAGE CURB DETAIL

Cedar Pointe
LOT 29

7/14/23

Seal

MULHERN + KULP

REGISTERED PROFESSIONAL ENGINEER

SHAUN KREIDEL

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RESIDENTIAL STRUCTURAL ENGINEERING

3825 Shawlands Parkway, Suite 105 • Alpharetta, GA 30022

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NC License # C-3825

Mulhern+Kulp project number:

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SMK

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issue date:

01.13.2023

REVISIONS:

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initial:

FOUNDATION DETAILS

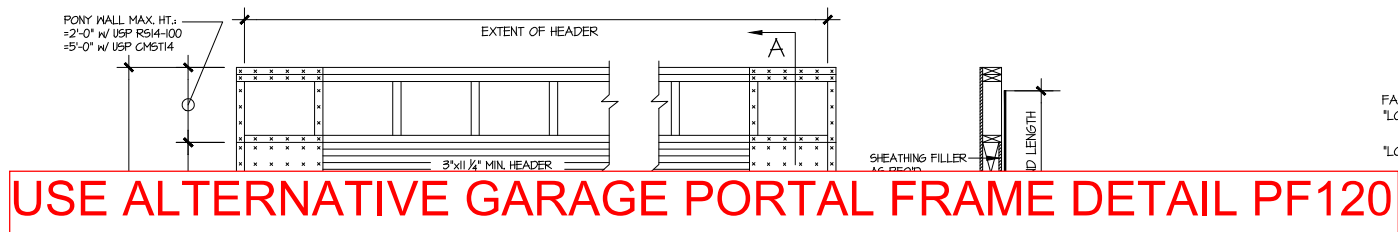
BENSON II MODEL

120 MPH WIND ZONE

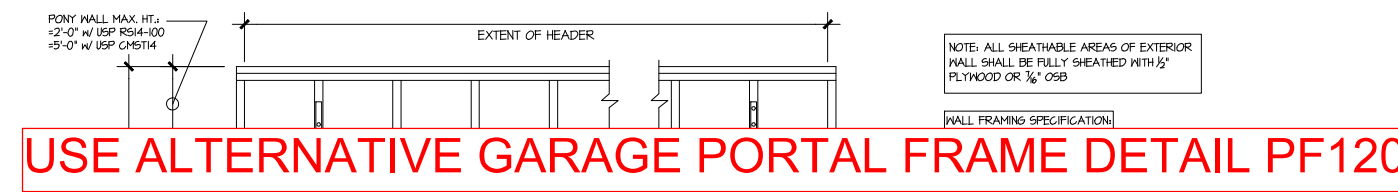
NORTH CAROLINA

sheet:

SD1.0

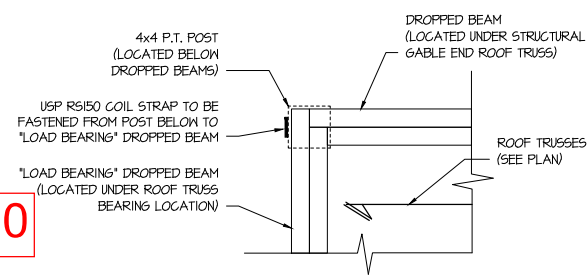


USE ALTERNATIVE GARAGE PORTAL FRAME DETAIL PF120

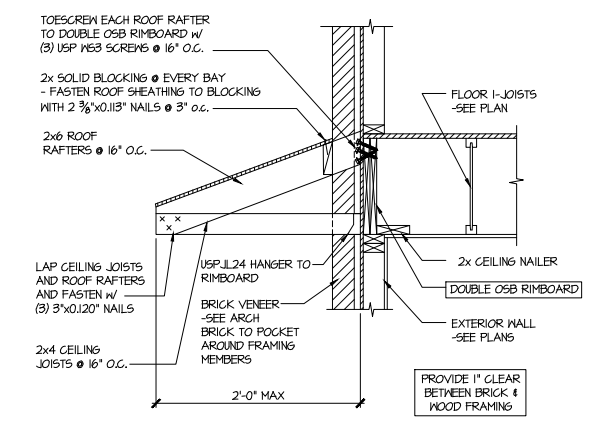


USE ALTERNATIVE GARAGE PORTAL FRAME DETAIL PF120

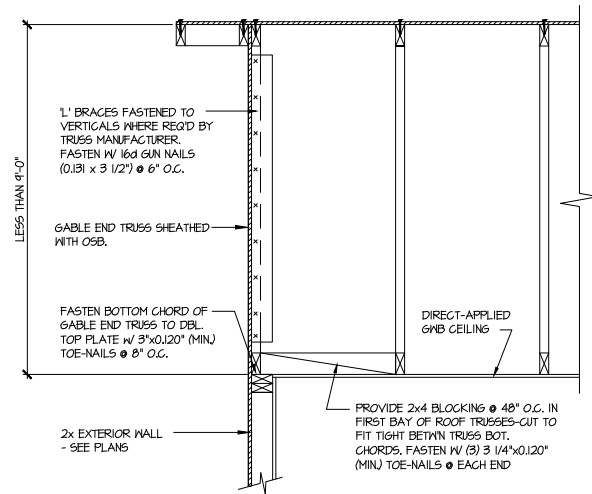
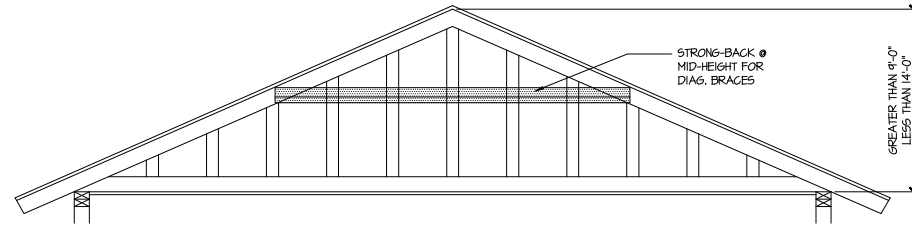
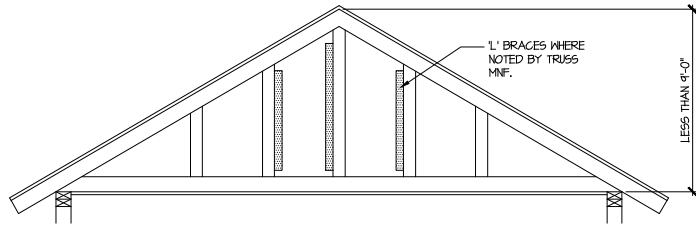
1 GARAGE PORTAL FRAME BRACING ELEVATION
SCALE: N.T.S.
BOTH SIDES OF GARAGE DOOR
115 MPH WIND SPEED (ULT)



2 COVERED PORCH CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"

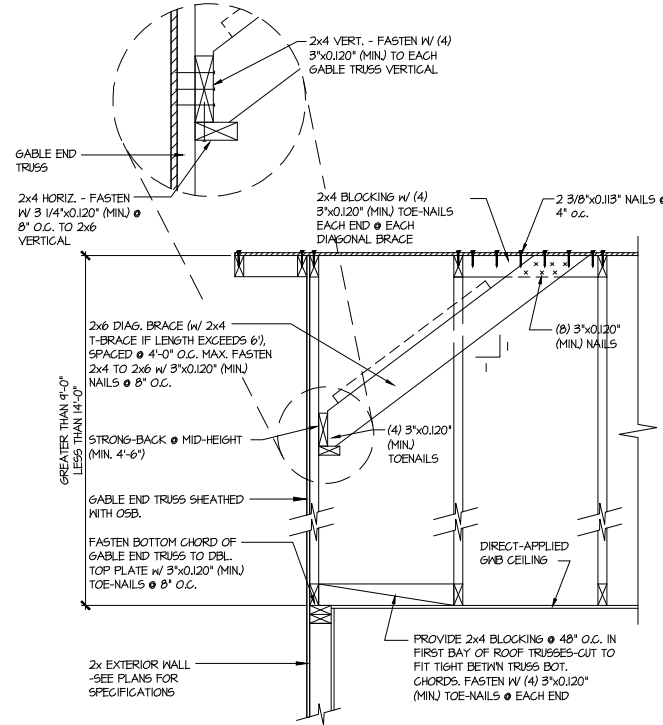


3 DETAIL @ PENT ROOF
SCALE: 3/4"=1'-0"



A TYPICAL GABLE END BRACING DETAIL
SCALE: NONE
REQ'D @ GABLE END TRUSS HEIGHT UP TO 9'-0"

BRACE GABLE END TRUSSES PER ABOVE DETAIL WHEN GABLE HEIGHT IS LESS THAN 9'-0". 1" BRACES REQUIRED WHERE NOTED BY TRUSS MANUFACTURER.



B TYPICAL GABLE END BRACING DETAIL
SCALE: NONE
REQ'D @ GABLE END TRUSS HEIGHT BETWEEN 9'-0" TO 14'-0"

BRACE GABLE END TRUSSES PER ABOVE DETAIL WHEN GABLE HEIGHT EXCEEDS 9'-0". 1" BRACES NOT REQUIRED.

LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.

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

Cedar Pointe
LOT 29

7/14/23

Seal of the State of North Carolina
Professional Engineer
SHAUN KREIDEL
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REVISIONS:	
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SMITH DOUGLAS
HOMES

FRAMING DETAILS

BENSON II MODEL

120 MPH WIND ZONE
NORTH CAROLINA

sheet:
SD2.1



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

3625 Brookside Parkway, Suite 165, Alpharetta, GA 30022 ▶ p 770-777-0074 ▶ mulhernkulp.com

July 28, 2023

Jody Hunt
Director of Product Development
SMITH DOUGLAS HOMES
110 Village Trail, Suite 215
Woodstock, GA 30188

ALTERNATE GARAGE PORTAL FRAME DETAIL

Smith Douglas Homes

Reference

"Alternate Garage Portal Frame Detail" on sheet PF-120 & PF-130, prepared by Mulhern & Kulp dated 07/28/2023 - attached

Jody:

Pursuant to your request, we have prepared this letter to address the "Alternate Garage Portal Frame Detail", prepared by Mulhern & Kulp for Smith Douglas Homes.

The "Alternate Garage Portal Frame Detail" on sheet "PF-120" is an acceptable alternative portal frame design for anywhere in North Carolina with a wind speed less than or equal to 120mph ultimate wind speed per ASCE 7-16. The "Alternate Garage Portal Frame Detail" on sheet "PF-130" is an acceptable alternative portal frame design for anywhere in North Carolina with a wind speed less than or equal to 130mph ultimate wind speed per ASCE 7-16. These details only apply to structural plans that have been designed by Mulhern & Kulp. It is the responsibility of "SDH" to provide the correct "Alternate Garage Portal Frame Detail", to the building department that matches the jurisdiction's wind speed requirements.

Please feel free to call if you have any questions.

Respectfully,

MULHERN & KULP STRUCTURAL ENGINEERING, INC.

NC License # C-3825

Shaun M. Kreidel, P.E. Project Manager + Atlanta Office Director

Signature + Seal 07/28/2023



Mulhern+Kulp project number:
256-23000

project mgr: SMK
drawn by: RAP
issue date: 07.28.2023

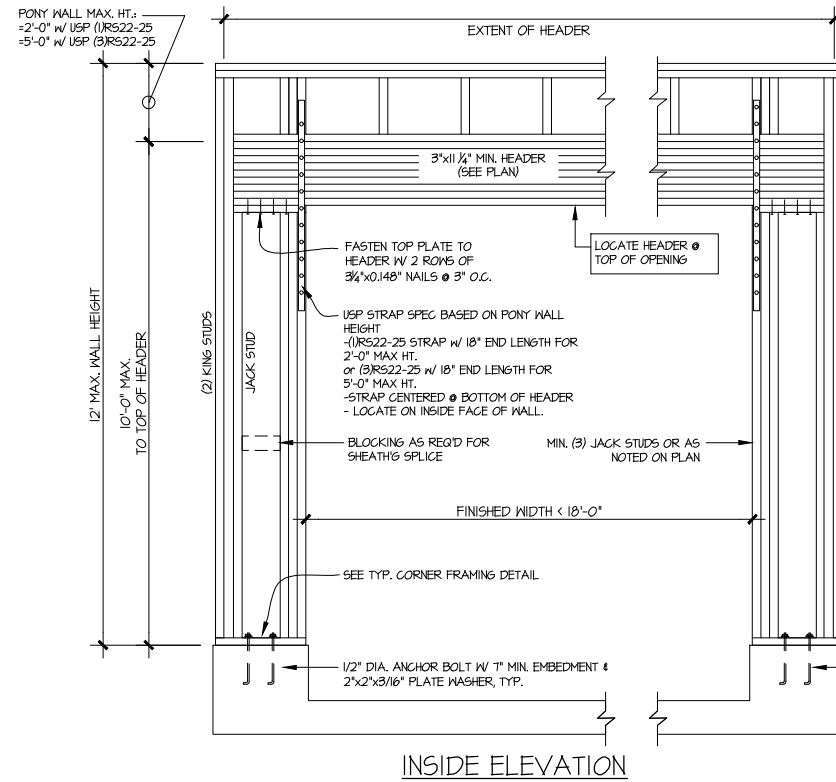
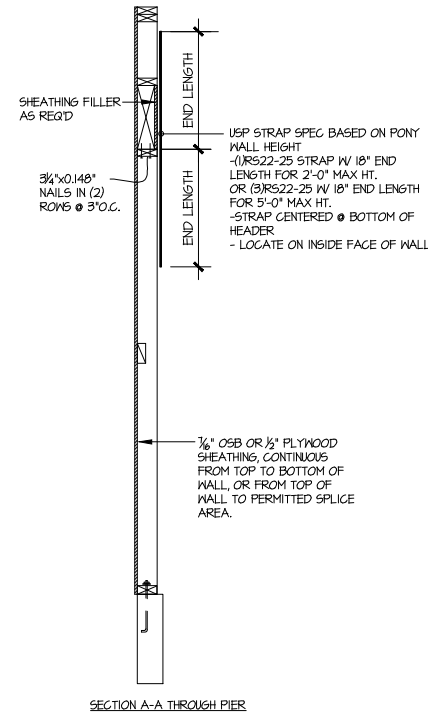
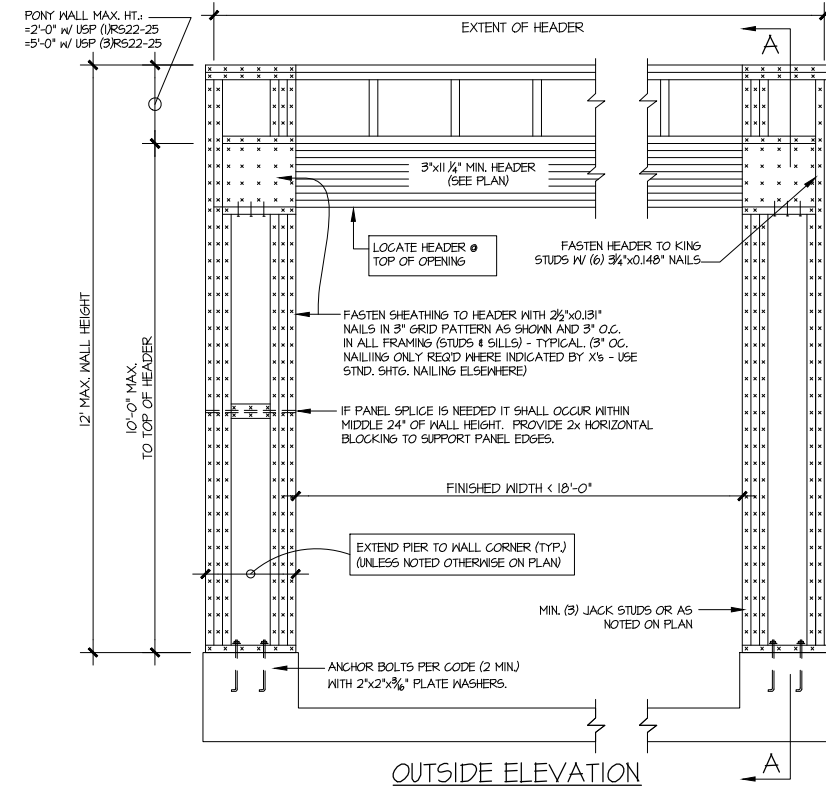
REVISIONS:
date: initial:

SMITH DOUGLAS
HOMES

ALTERNATE PORTAL FRAME

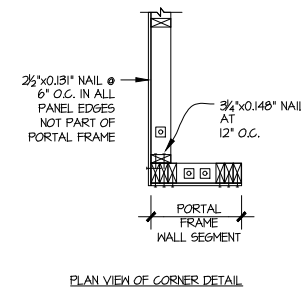
PORTAL FRAME

sheet:
PF-120



NOTE: ALL SHEATHABLE AREAS OF EXTERIOR
WALL SHALL BE FULLY SHEATHED WITH 1/2"
PLYWOOD OR 3/8" OSB

WALL FRAMING SPECIFICATION:
Ø2x4 WALL: USE SFF #2
GRADE STUDS (OR BETTER)
Ø2x6 WALL: USE SFF #1UD
GRADE STUDS (OR BETTER)



ALTERNATIVES TO 1/2" DIA. ANCHOR BOLT:
1) 1/2" DIA. THREADED ROD EPOXY SET w/ 1/4 1/2" EMBED.
(MIN. UTILIZING HILTI HY200 EPOXY ANCHORING SYSTEM
(OR EQUAL)



ALTERNATE GARAGE PORTAL FRAME BRACING ELEVATION

SCALE: N.T.S.

BOTH SIDES OF GARAGE DOOR
120 MPH WIND SPEED (ULT)

Cedar Pointe
LOT 29



△ INDICATES LEFT END OF TRUSS SCALE: N.T.S

REVISIONS	DSN					
	DATE	DESCRIPTION				


DESIGNER - HATHCOCK
 LAYOUT DATE - 04.07.2023
 ARCH DATE -
 STRUC DATE -
 JOB #: -MASTER

-BENSON II BEH ROOF

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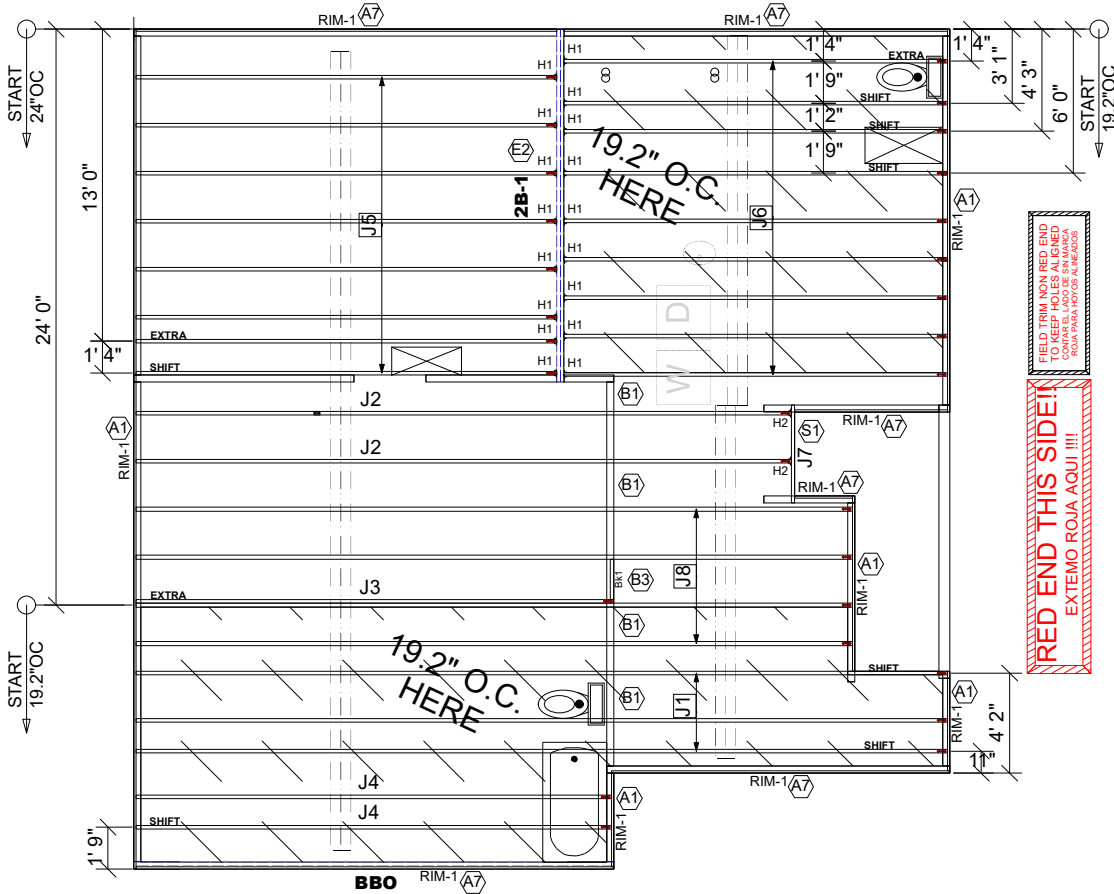
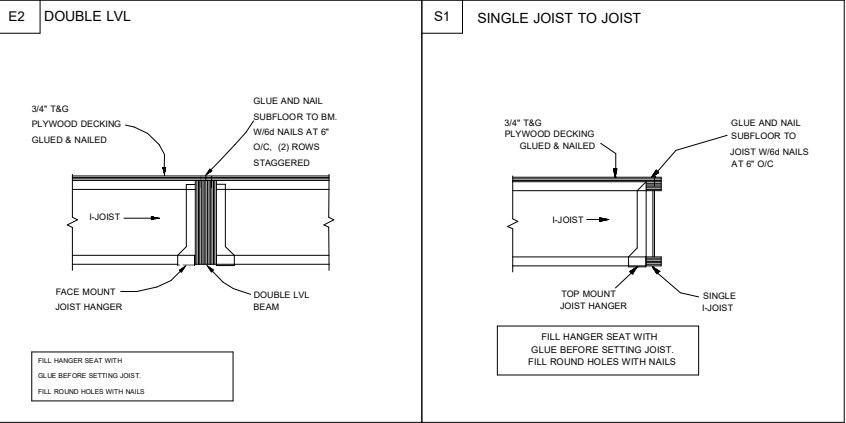
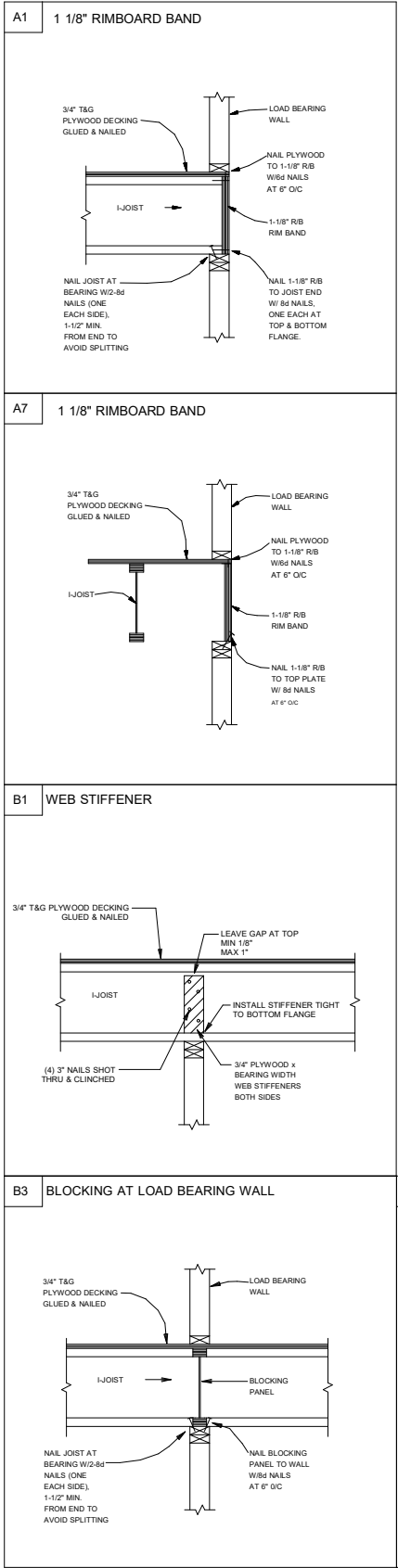


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 Chesapeake, VA Liberty, NC
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 Conway, SC Pearisburg, VA
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Customer Service (800) 476-9356

THIS IS AN ENGINEERED WOOD PRODUCT (EWP) MEMBER PLACEMENT DIAGRAM ONLY; NOT AN ENGINEERED DOCUMENT. EWP members are designed as individual building components to be incorporated into the building design at the specification of the building designer. The Contractor is responsible for the temporary bracing of the floor system, and the building designer is responsible for the permanent bracing and blocking of the floor system and the overall structure. The design of the support structure including but not limited to headers, beams, walls, and columns is also the responsibility of the building designer. It is the responsibility of the General Contractor to verify that the provided layout matches the final intended construction plans, loading conditions, and use. If they do not, it is the responsibility of the General Contractor to notify UFP and provide plans containing the latest specifications and designs. UFP will not be responsible for plan changes by others after final approval of shop drawings, or for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" EWP MEMBERS IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED PROFESSIONAL DESIGNATED BY UFP. The Framers are responsible to verify all dimensions, including adjusting member spacing within tolerances to allow for the drop and rise of plumbing/HVAC, unless noted otherwise. All connectors on this project are to be installed per the connector manufacturer's specifications. All connectors shown that are not joist to joist are suggestions only and are to be verified by the Building Designer or Engineer of Record for suitability to this particular project. UFP accepts no responsibility for the specific application or suitability of any connector that is not joist to joist as they apply to this specific structure.

2ND FLOOR PLACEMENT PLAN



Products					
PlotID	Length	Product	Piles	Net Qty	Fab Type
J1	34' 0"	14" TJ@ 110	1	3	MFD
J2	28' 0"	14" TJ@ 110	1	2	MFD
J3	20' 0"	14" TJ@ 110	1	1	MFD
J4	20' 0"	14" TJ@ 110	1	2	MFD
J5	18' 0"	14" TJ@ 110	1	8	MFD
J6	16' 0"	14" TJ@ 110	1	9	MFD
J7	5' 0"	14" TJ@ 110	1	1	MFD
J8	30' 0"	14" TJ@ 210	1	4	MFD
2B-1	15' 0"	1 3/4" x 14" 2.0E Microllam® LVL	2	2	MFD
RIM-1	16' 0"	1 1/8" x 14" TJ@ Rim Board	1	9	MFD
Bk1	2' 0"	14" TJ@ 110	1	1	MFD

Connector Summary			
PlotID	Qty	Manuf	Product
H1	17	MiTek	IHFL1714
H2	2	MiTek	TFL1714

GENERAL NOTES:

- 1.) TOP CHORD OF JOISTS ARE PAINTED RED AT NUMBERED END. PLACE PAINTED END AS NOTED ON PLAN.
- 2.) FOLLOW SPECIAL SPACING AND LOCATION DIMENSIONS FOR EXTRAS OR SHIFTED JOISTS AS SHOWN ON PLAN.
- 3.) ALL INTERIOR WALL PLATES MUST BE LEVEL WITH OUTSIDE WALL TOP PLATES.
- 4.) DO NOT STACK CONSTRUCTION LOADS ON UN-BRACED JOISTS.
- 5.) PROVIDE SOLID SUPPORT BELOW ALL BEAM AND HEADER BEARING POINTS IN WALL AND JOIST SPACES CONTINUOUS DOWN TO THE FOUNDATION.
- 6.) LOCATE CRIPPLE STUDS IN JOIST SPACE DIRECTLY BELOW HEADER JACKS AT ALL FIRST FLOOR EXTERIOR DOOR LOCATIONS.
- 7.) INSTALL NAILS IN ALL HOLES PROVIDED IN JOIST HANGERS EXCEPT AT BOTTOM CHORD SEAT. PLACE A DAB OF GLUE IN THE HANGER SEAT BEFORE SETTING JOISTS.
- 8.) IMPORTANT NOTE! NO STRUCTURAL ANALYSIS OF CONVENTIONAL HEADERS HAS BEEN CONDUCTED IF NOT NOTED. THEY ARE CONSIDERED TO BE ADEQUATE TO SUPPORT THE APPLIED LOADS.

FRAMER NOTE

⏏ DENOTES DUCT HOLE RUNS

ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED

- Avoid Plumbing Drops

FRAMER NOTE

1. GLUE AND NAIL PLYWOOD SUBFLOOR TO BEAMS AND GIRDERS AT 6" O/C WHERE NO WALL IS ABOVE.
2. FILL HANGER SEAT WITH GLUE BEFORE SETTING JOIST IN HANGER. FILL ROUND HOLES WITH NAILS.

CRITICAL !!

INSTALL 2X4 SQUASH BLOCKS IN FLOOR TRUSS SPACE BELOW ALL EXTERIOR DOOR HEADER JACKS. CUT 1/16" TALLER THAN TRUSS.

FIELD VERIFY DIMENSIONS TO JOISTS LOCATED UNDER WALLS!!

2ND FLOOR LAYOUT

PLAN LEGEND

1B-, 2B-

H-, 1H-, GDH-

*INDICATES BEAM ABOVE TOP PLATE (FLUSH WITH FLOOR SYSTEM)

*INDICATES BEAM BELOW TOP PLATE (DROPPED BELOW FLOOR SYSTEM)

*BEAMS MAY PROTRUDE ABOVE OR BELOW DECKING OR TOP PLATE RESPECTIVELY, REFER TO DETAIL IF BEAM IS A DIFFERENT DEPTH THAN FLOOR SYSTEM

SINGLE PLY BEAM (ADD LINE FOR EACH ADDITIONAL PLY)

SHIFT SHIFT JOIST TO MISS PLUMBING, ALIGN W/WALL OR SUPPORT FURNITURE

EXTRA A JOIST ADDED TO THE LAYOUT IN ADDITION TO THE ON CENTER JOISTS

DOUBLE TWO JOISTS SIDE BY SIDE (ONLY ASSEMBLED IF NOTED)

FIELD TRIM NON RED END TO KEEP HOLES ALIGNED
CONTAR EL LADO DE SIN MARCA
ROJA PARA HOYOS ALINEADOS

FIELD LOCATE
PLUMBING DROPS/CAN
LIGHTS, ETC... PRIOR
TO JOIST
SECUREMENT TO
AVOID INTERFERENCE.

LAYOUT FOR 19.2" O/C

1= 19-3/16"	9= 172-13/16"
2= 38-3/8"	10= 192"
3=57-5/8"	11= 211-3/16"
4= 76-13/16"	12= 230-3/8"
5= 96"	13= 249-13/16"
6= 115-3/16"	14= 268-13/16"
7= 134-3/8"	15= 288"
8= 153-5/8"	

REVISIONS		DSN							
DATE	DESCRIPTION								

DESIGNER PB2
LAYOUT DATE 3/14/2025
ARCH DATE 9/1/2022
STRUC DATE 7/14/2023

JOB #: 25031092F2

SCALE: 1/8"=1'

Smith Douglas Homes

Benson II 2nd Floor

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