

BENSON II

CEDAR POINTE
LOT 16



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
A3.1	SLAB FOUNDATION
A5.1	FIRST FLOOR PLANS & DETAILS
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

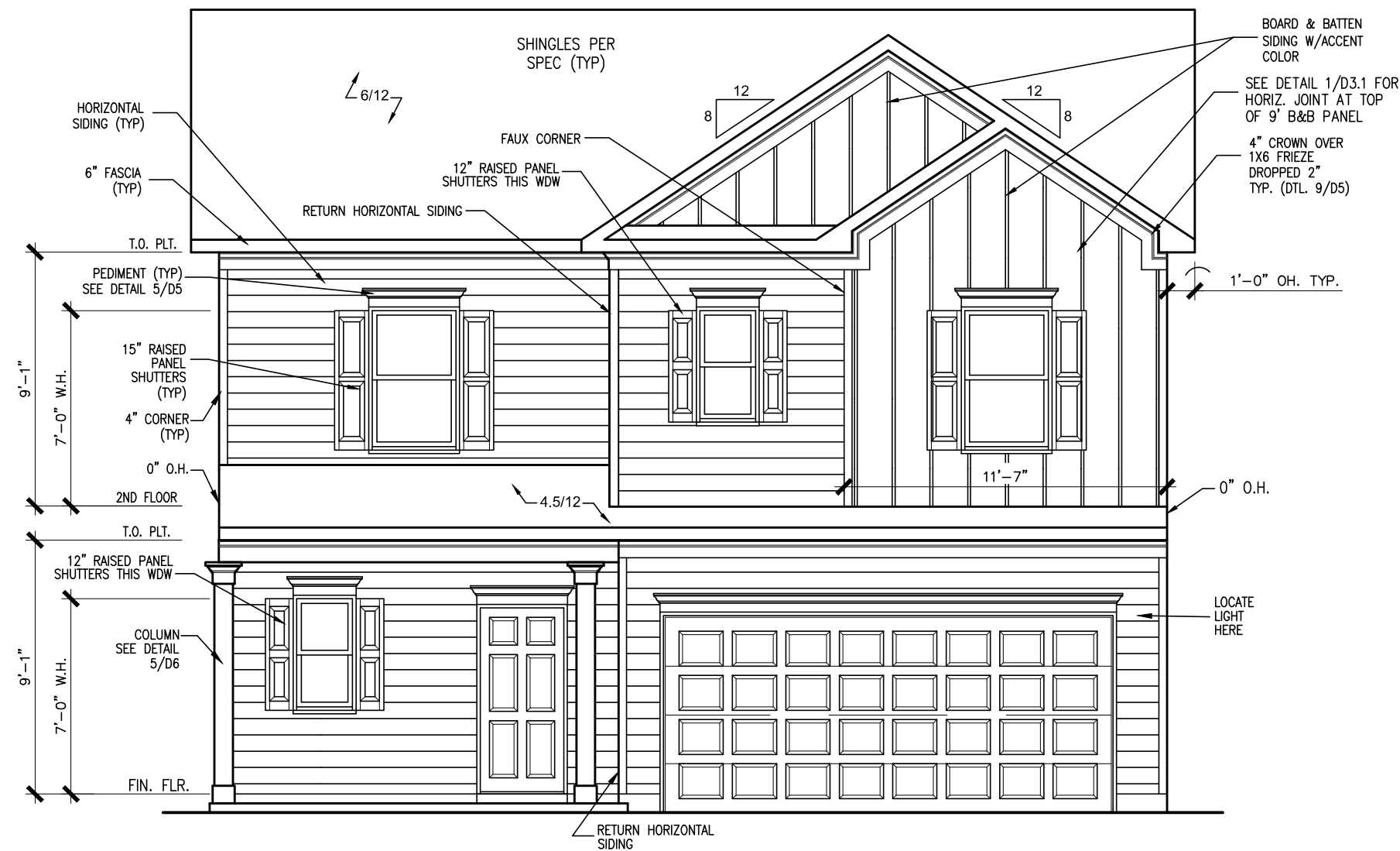
GOVERNMENTAL CODES & STANDARDS
HOME TO BE BUILT TO CONFORM TO ALL APPLICABLE LOCAL CODES, PRACTICES AND STANDARDS

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 16



FRONT ELEVATION "A"

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

DATE	BY	REVISION
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ELEVATIONS

FRONT ELEVATION

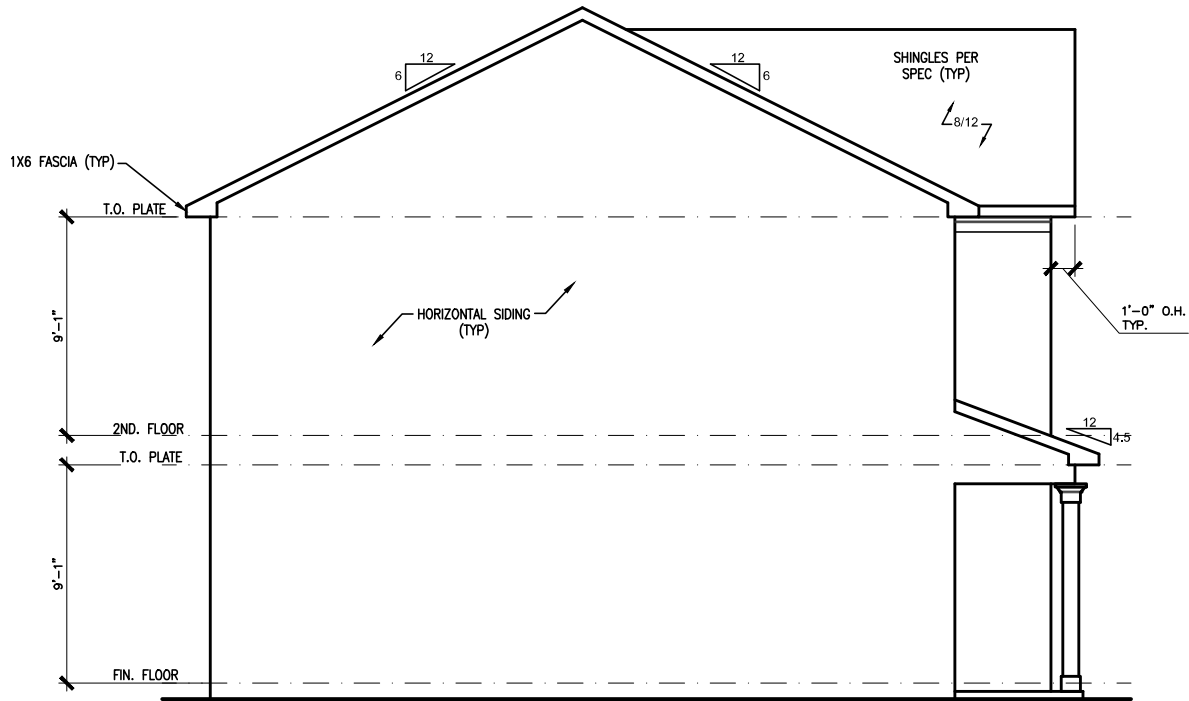
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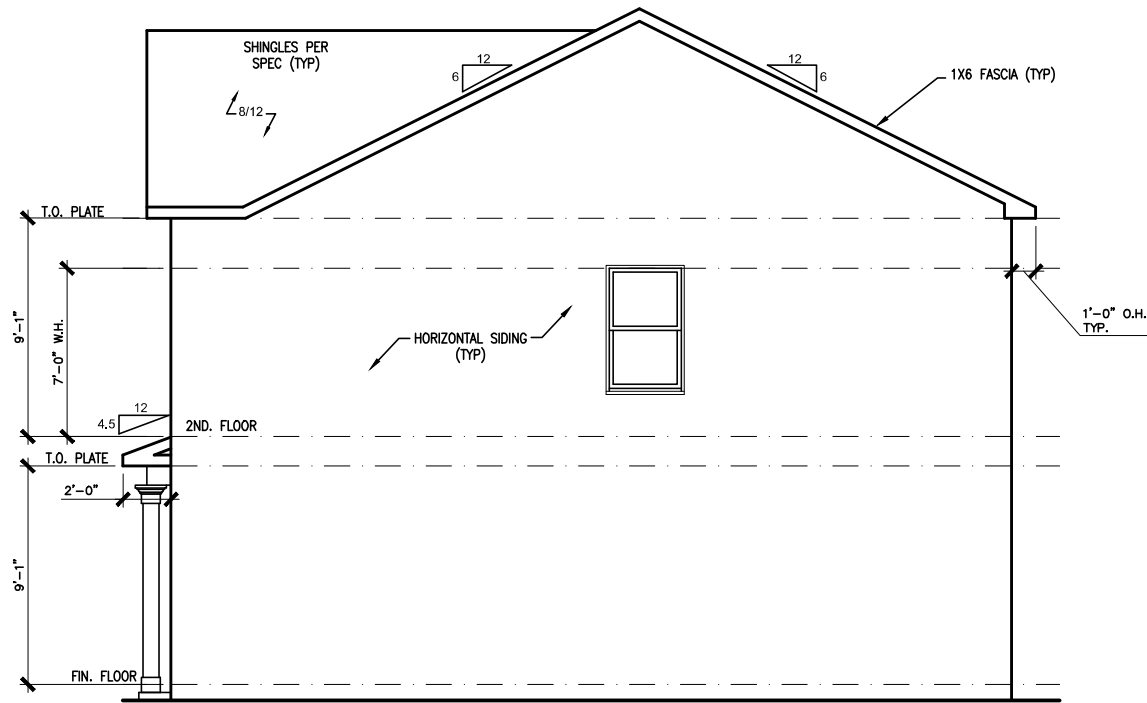
BY:	AAP	CH:	AW
DATE:	4/22/25		
FACADE OPT:	A		
PLAN ID:			
PND:	ALL	ELEV:	A
PAGE NO:	A1.1		

CEDAR POINTE
LOT 16



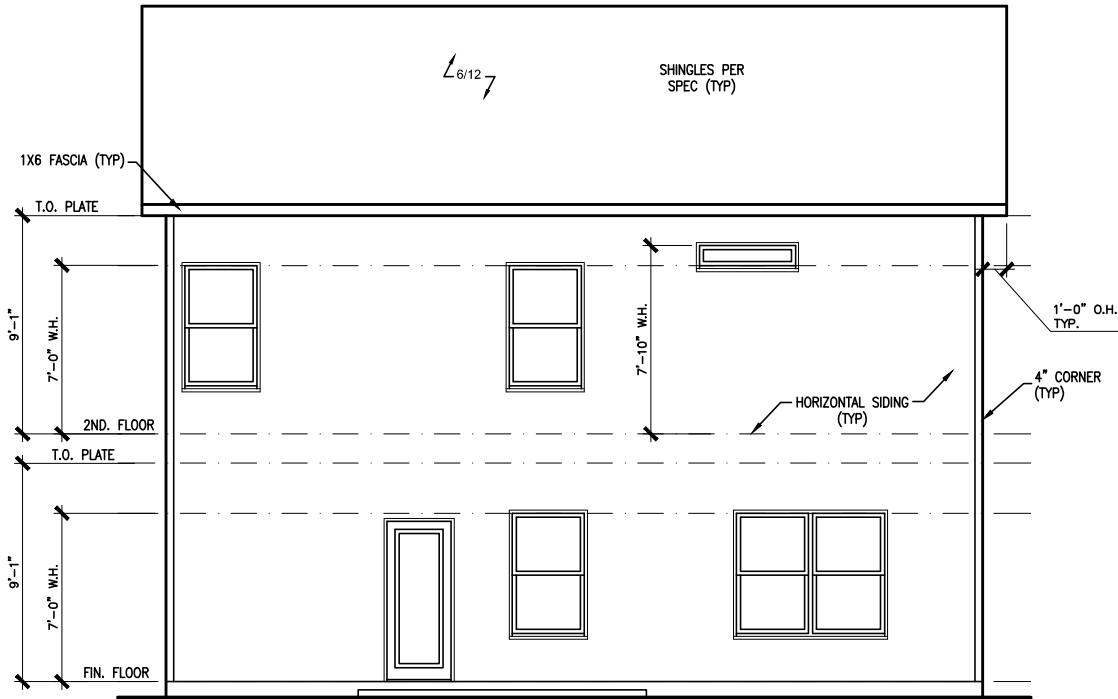
LEFT ELEVATION "A"

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



RIGHT ELEVATION "A"

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



REAR ELEVATION "A"

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

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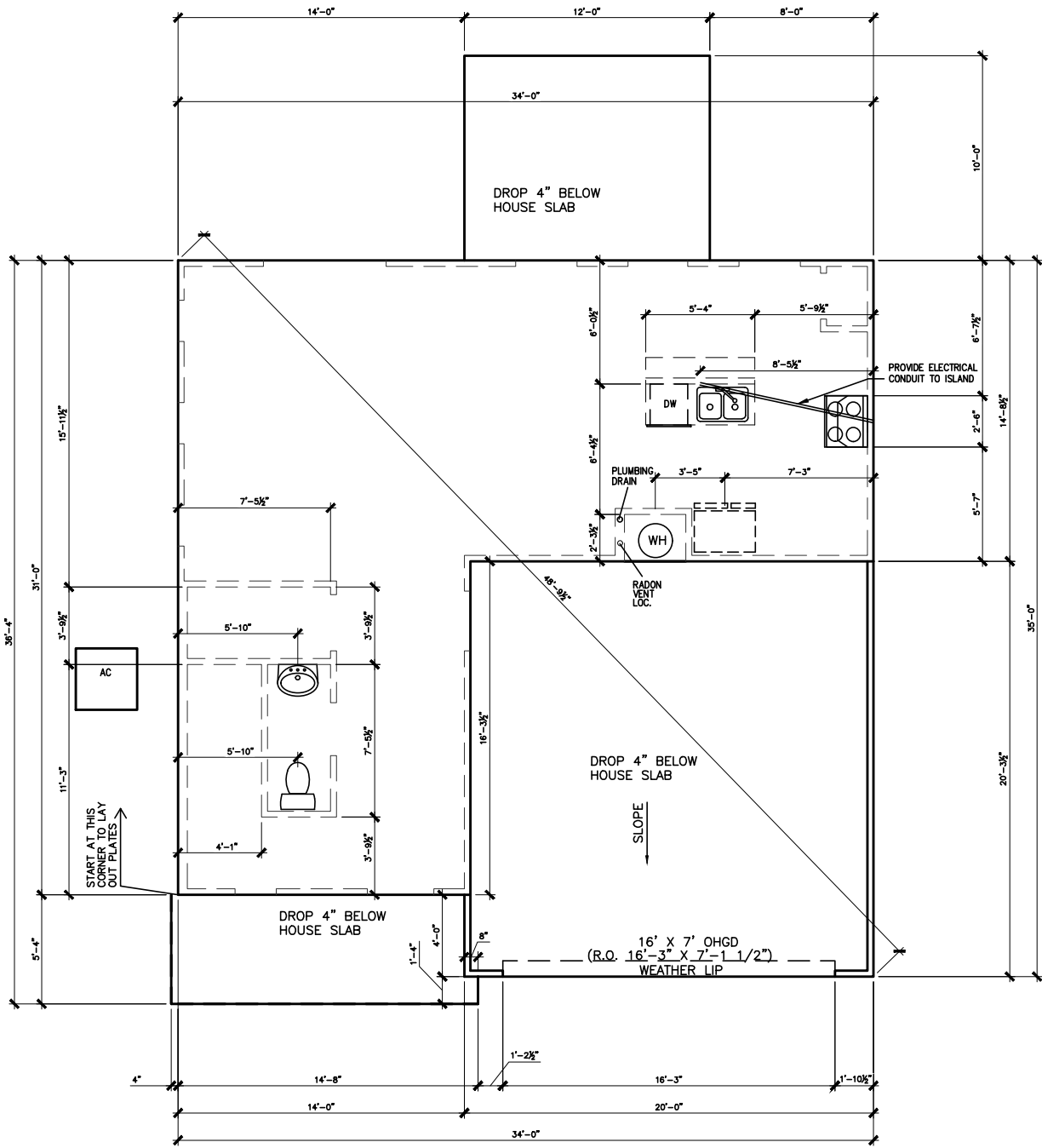
ELEVATIONS
SIDES AND REAR
BENSON II

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FACADE OPT: A	
PLAN ID:	
PND: ALL	ELEV: A
PAGE NO: A2.1	

CEDAR POINTE
LOT 16



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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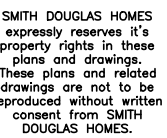
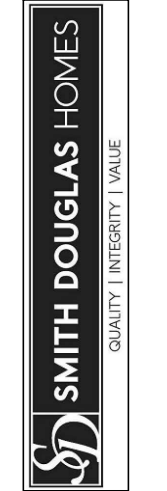
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FOUNDATION PLAN
SLAB PLAN
BENSON II

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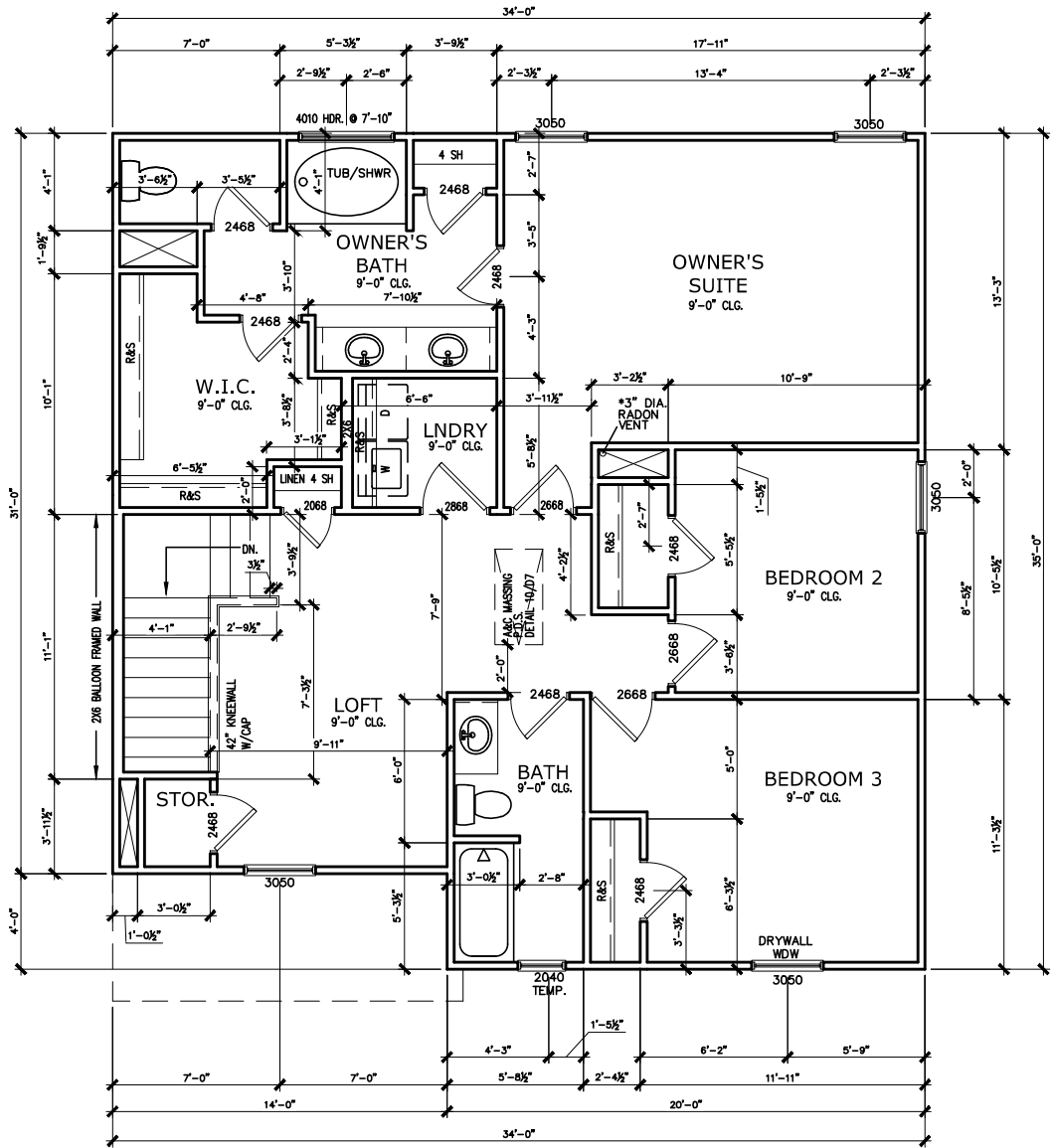
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PAGE NO: A3.1	

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DATE: 4/22/25	
FACADE OPT: A	
PLAN ID:	
FND: ALL	ELEV: A
PAGE NO: A5.1	

CEDAR POINTE
LOT 16



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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FLOOR PLAN

SECOND FLOOR

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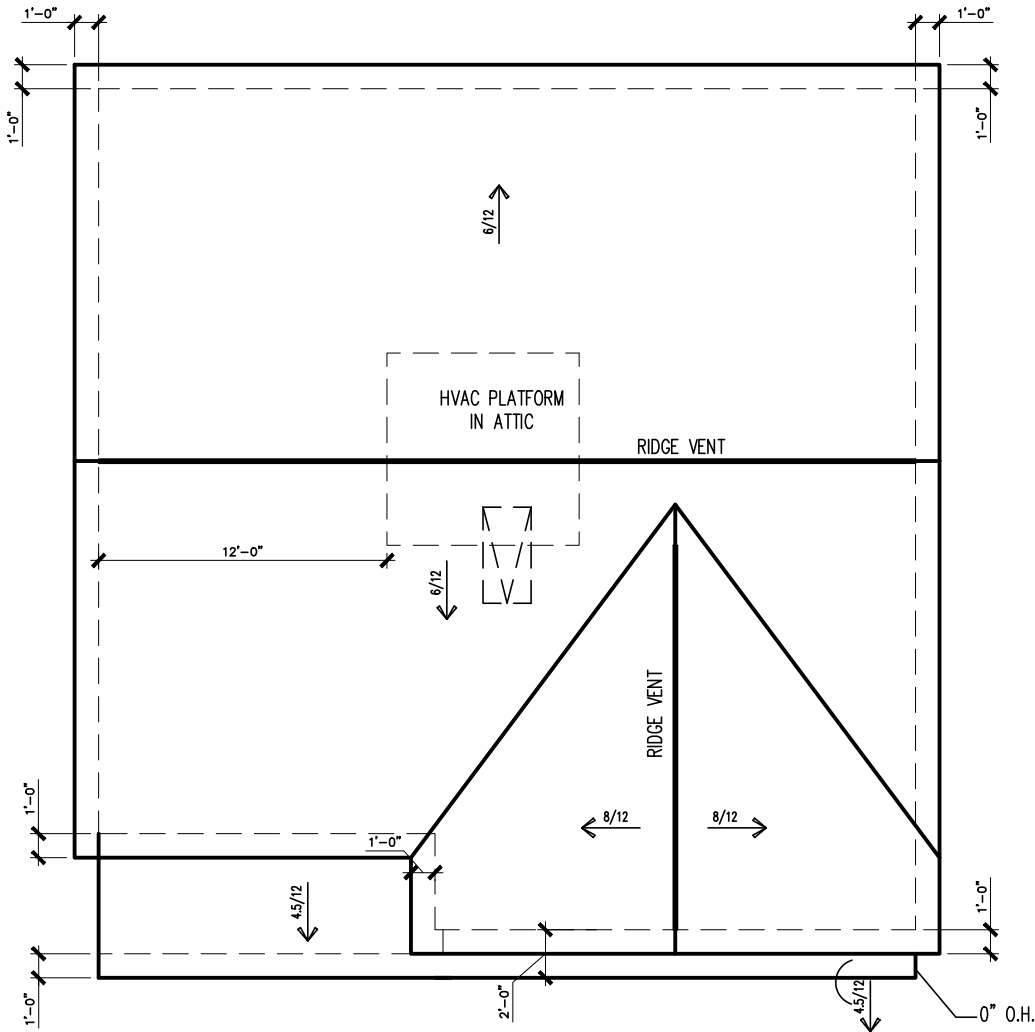
FACADE OPT: A

PLAN ID:

PND: ALL RLEV: A

PAGE NO: A5.2

CEDAR POINTE
LOT 16



ROOF PLAN "A"
SCALE : 1/8" = 1'-0"

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ROOF PLAN

ROOF PLAN

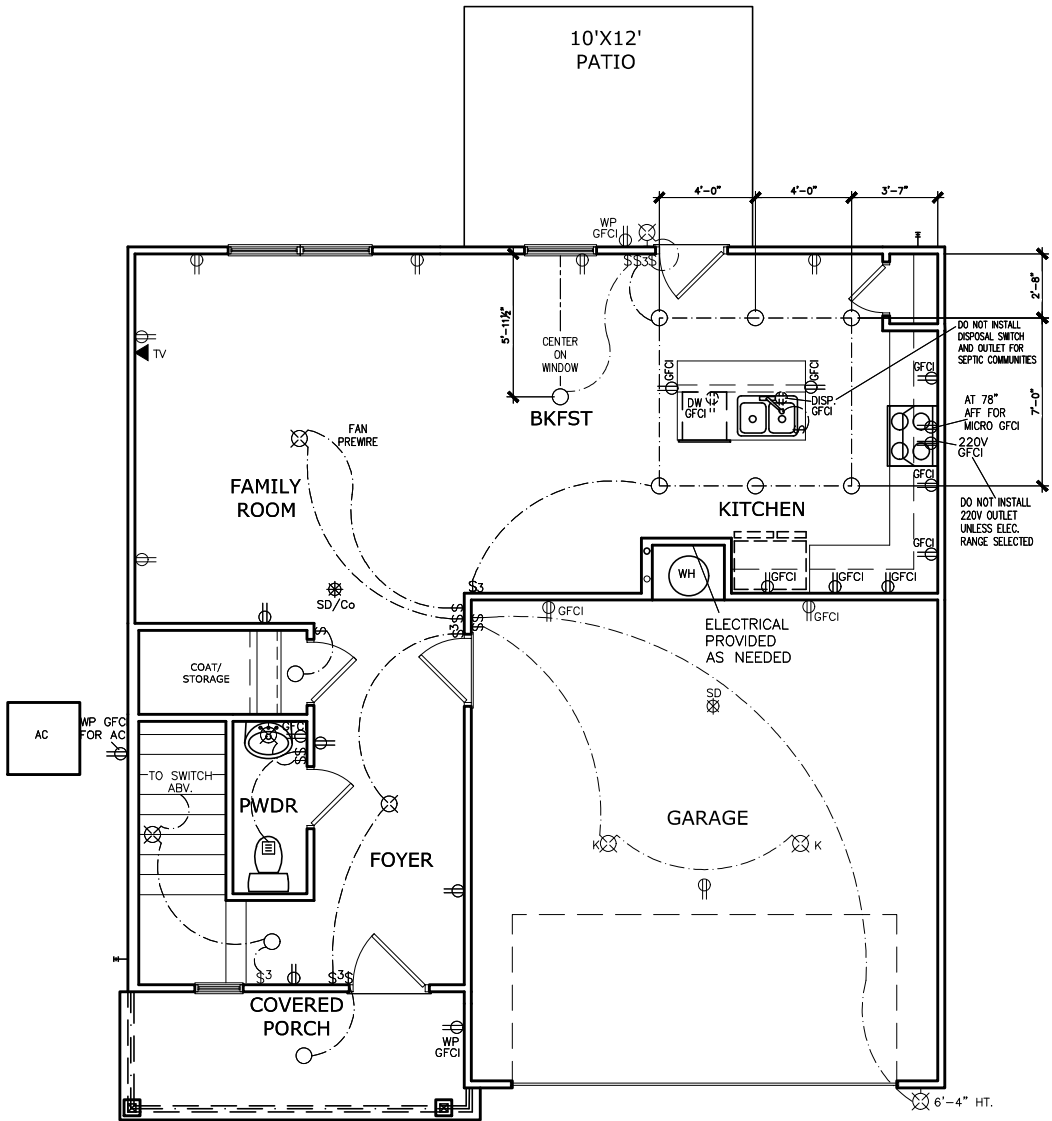
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
















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FACADE OPT:	A		
PLAN ID:			
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PAGE NO:	A6.1		

CEDAR POINTE
LOT 16



FIRST FLOOR ELECTRICAL PLAN

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

ELECTRICAL LEGEND			
\$	SWITCH		TV
\$3	3 WAY SWITCH		120V RECEPTACLE
\$4	4 WAY SWITCH		120V SWITCHED RECEPTACLE
	CEILING FIXTURE		220V RECEPTACLE
	KEYLESS		GFCI OUTLET
	WALL MOUNT FIXTURE		ARCH FAULT CIRCUIT INTERRUPTER
○	CEILING FIXTURE	† _{GL}	GAS LINE
	FLEX CONDUIT	† _{WL}	WATER LINE
	CHIMES	⏏	HOSE BIBB
	TELEPHONE		FLOOD LIGHT
	SMOKE DETECTOR & CARBON MONOXIDE		1x4 LUMINOUS FIXTURE
	SECURITY OUTLET		CEILING FAN
	GARAGE DOOR OPENER		
	EXHAUST FAN		ELECTRICAL WIRING
	FAN/LIGHT		CEILING FIXTURE
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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ELECTRICAL PLAN

FIRST FLOOR

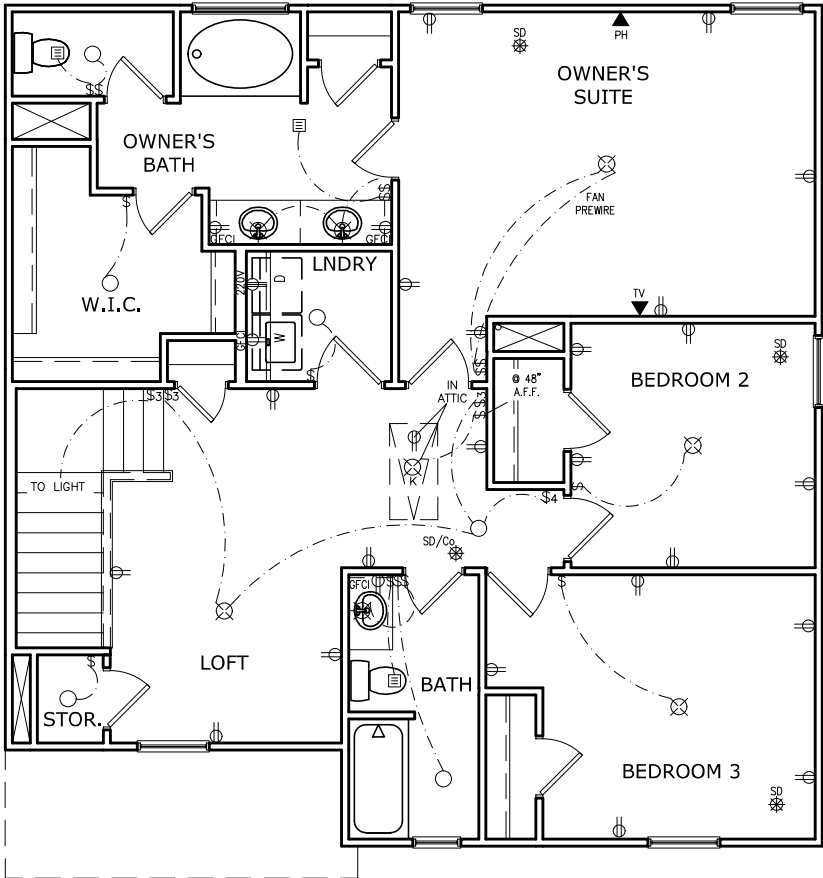
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PAGE NO:	A7.2		

CEDAR POINTE
LOT 16



ELECTRICAL LEGEND			
\$	SWITCH	TV	TV
\$3	3 WAY SWITCH	120V	120V RECEPTACLE
\$4	4 WAY SWITCH	120V	120V SWITCHED RECEPTACLE
⊗	CEILING FIXTURE	220V	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	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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#	#	#
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#	#	#
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#	#	#

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ELECTRICAL PLAN

SECOND FLOOR

BENSON II

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110 VILLAGE TRAIL

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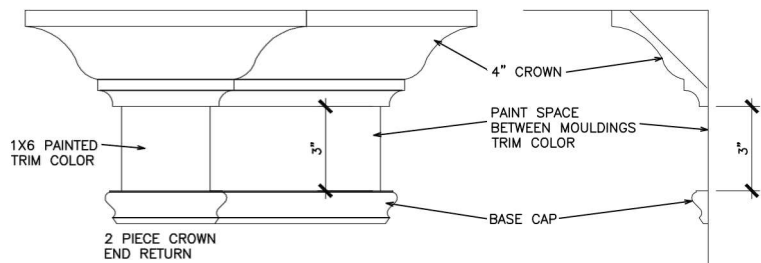
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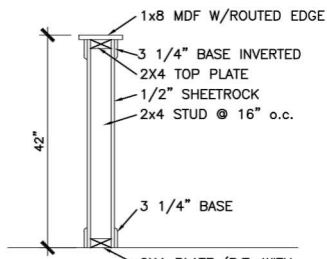
PAGE NO: A7.3

REFER TO LOT SPECIFIC PLAN TO
DETERMINE WHICH DETAILS APPLY



TYPICAL TWO PIECE CROWN

N.T.S.



TYP. KNEEWALL SECTION

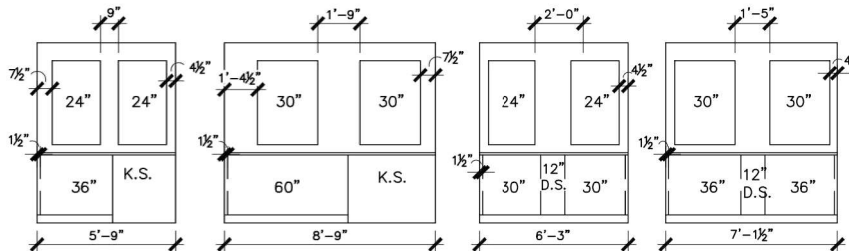
N.T.S.



TYP. 2ND FLOOR KNEE WALL STABILITY

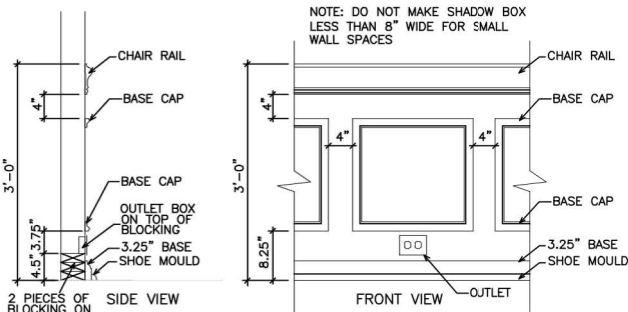
N.T.S.

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.



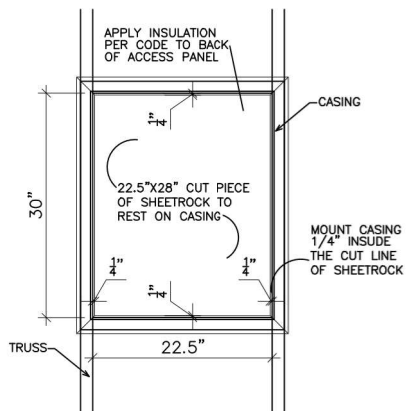
TYPICAL SPLIT MIRROR SCENARIOS

N.T.S.



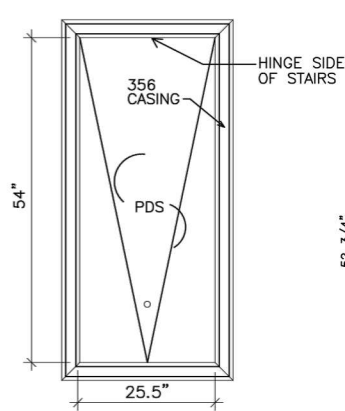
TYPICAL CHAIR RAIL & SHADOW BOX DETAIL

N.T.S.



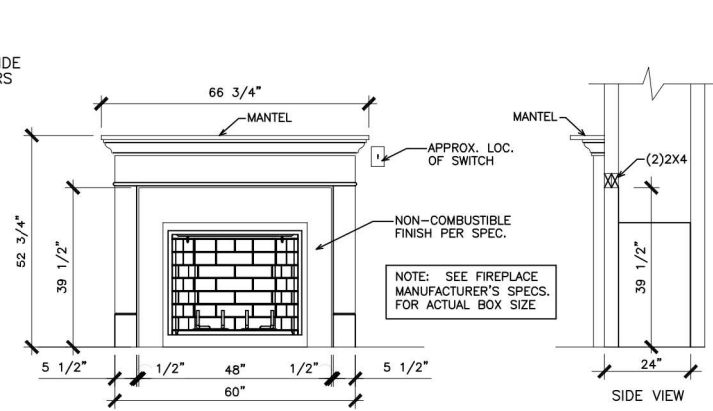
SCUTTLE HOLE DETAIL

N.T.S.



PDS TRIM DETAIL

N.T.S.



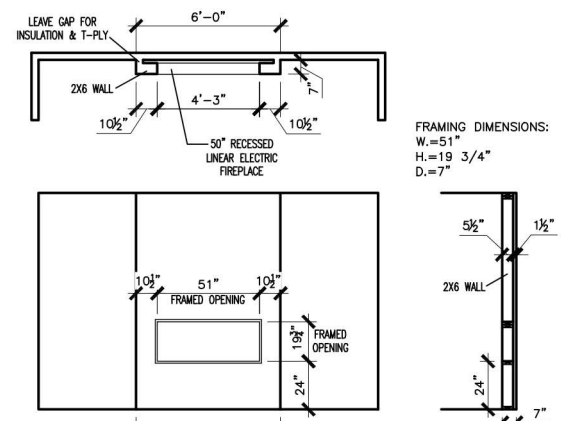
GAS/ELECTRIC FIREPLACE DETAIL
WITH WESCOTT WOOD MANTEL

N.T.S.

NOTE: SEE FIREPLACE
MANUFACTURER'S SPECS.
FOR ACTUAL BOX SIZE.

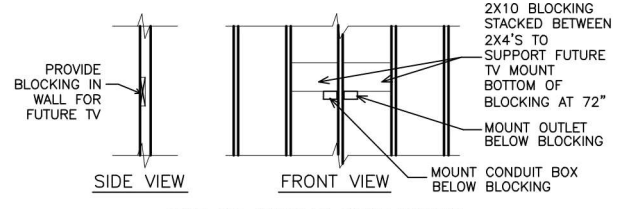
ELECTRIC FRAMING
DIMENSIONS:
W.=37"
D.=24"
H.=31 1/4"

GAS FRAMING
DIMENSIONS:
W.=37"
D.=24"
H.=34 3/4"



LINEAR ELECTRIC FIREPLACE DETAIL

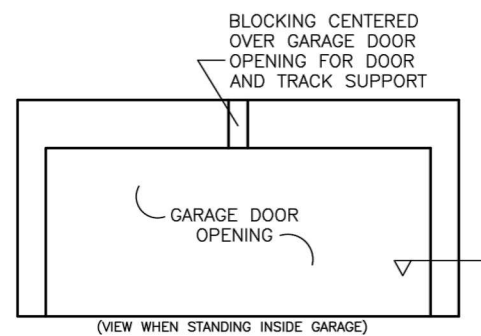
N.T.S.



NOTE: USE SCRAPS TO CREATE BLOCKING -
(3) 2X4s, (2) 2X6s OR (1) 2X10

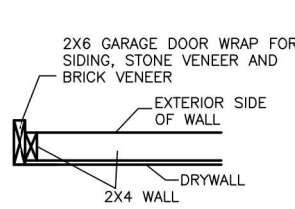
TYP. TV WALL PREP

N.T.S.



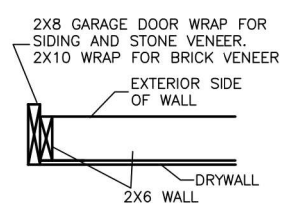
TYP. GARAGE WRAP & BLOCKING

N.T.S.



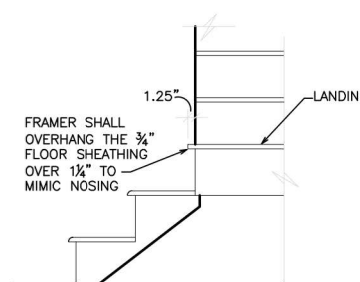
SECTION VIEW
2X4 PORTAL WALL

N.T.S.



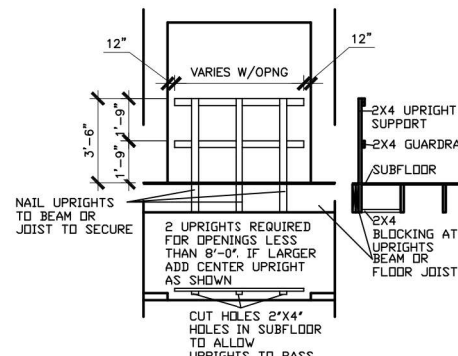
SECTION VIEWS
2X6 PORTAL WALL

N.T.S.



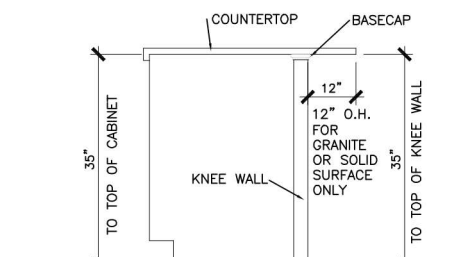
BOX STEP OVERHANG

N.T.S.



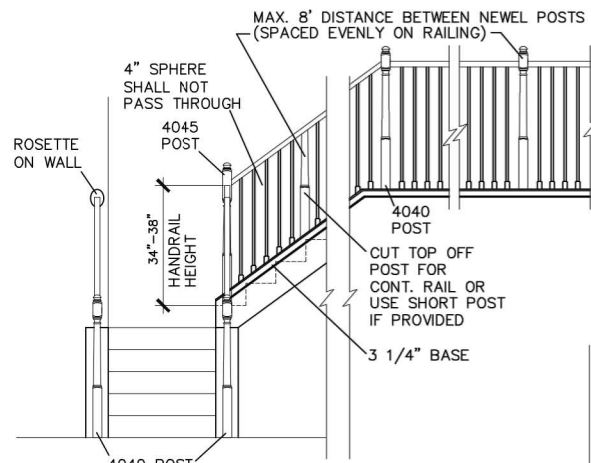
GUARD RAIL DTL. AS REQ'D

N.T.S.



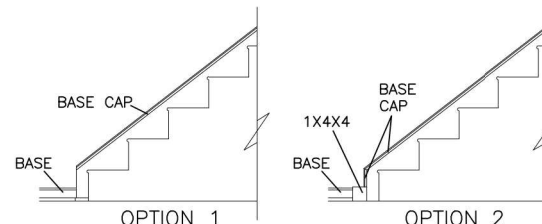
SECTION @ ISLAND KNEEWALL

N.T.S.



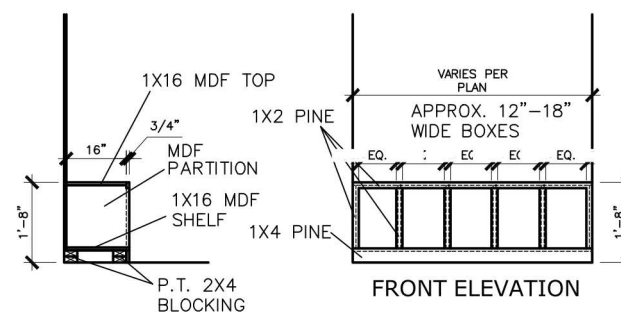
HANDRAIL/POST DETAIL @ STAIRS

N.T.S.



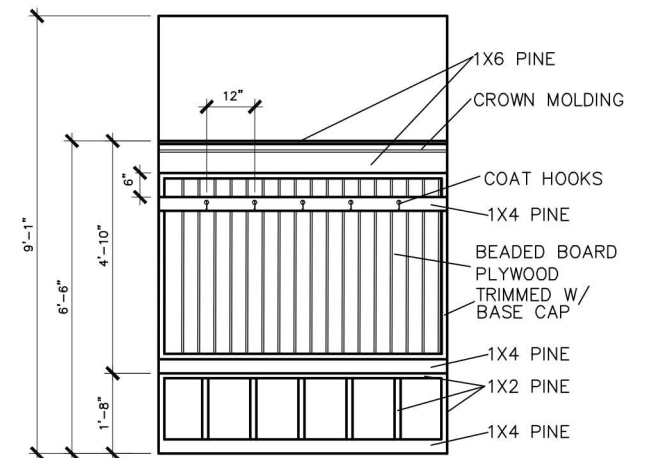
STAIR TRIM DETAILS

N.T.S.



MUD ROOM BENCH SEAT DETAIL

N.T.S.



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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DATE					

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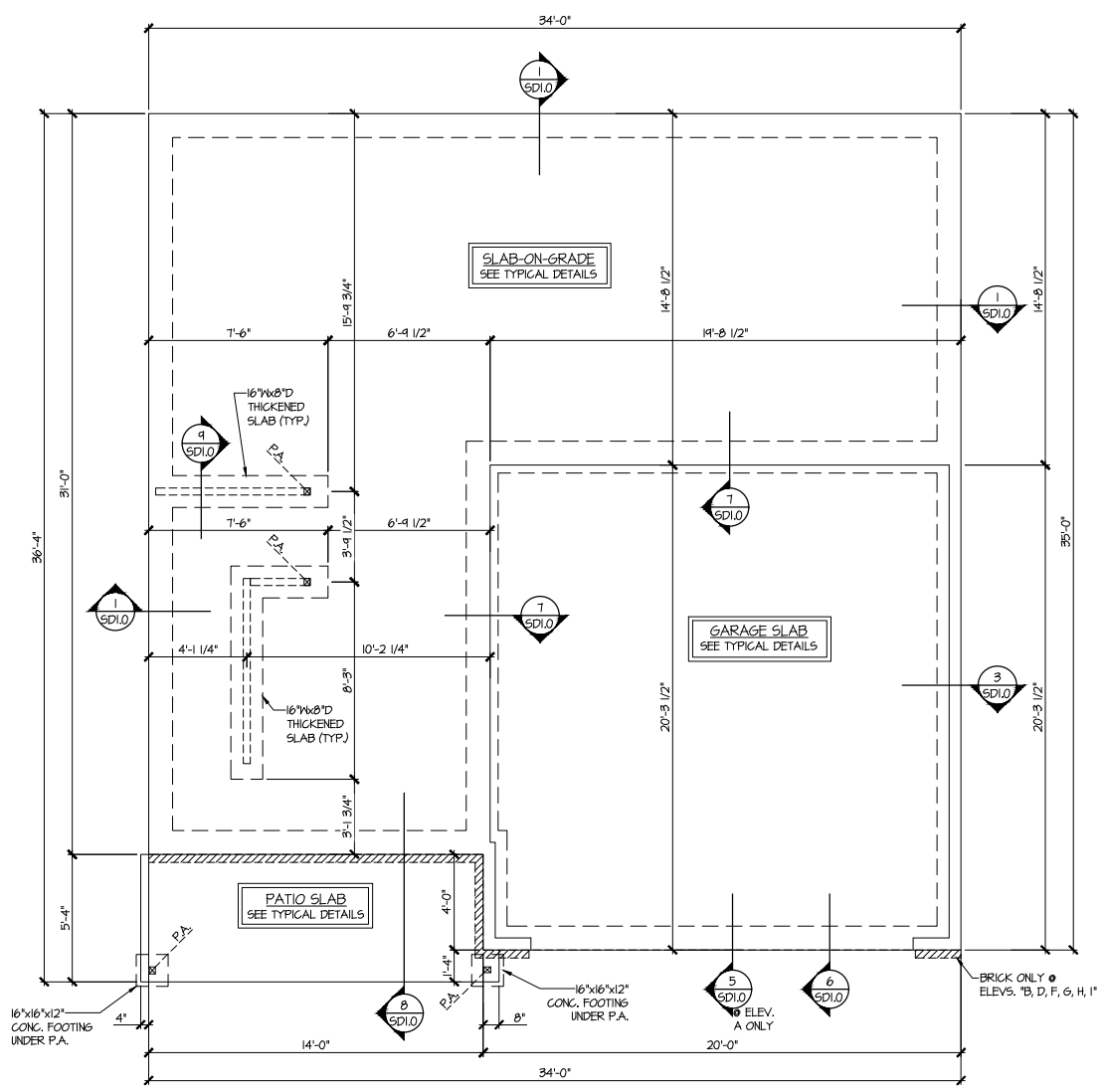
QUALITY | INTEGRITY | VALUE

INTERIOR TRIM
DETAILS

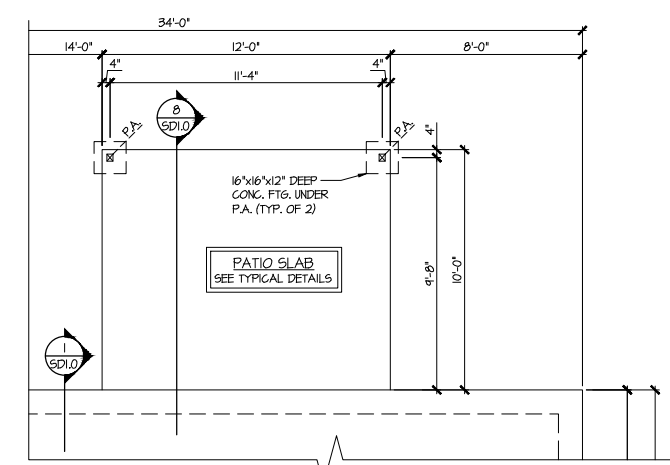
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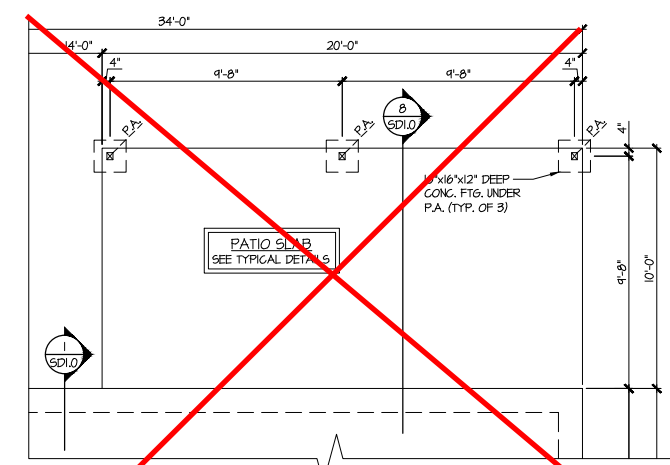
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DATE:	6/13/23
FACADE OPT:	
PLAN ID:	
FND:	ELEV:
PAGE NO:	D1.1



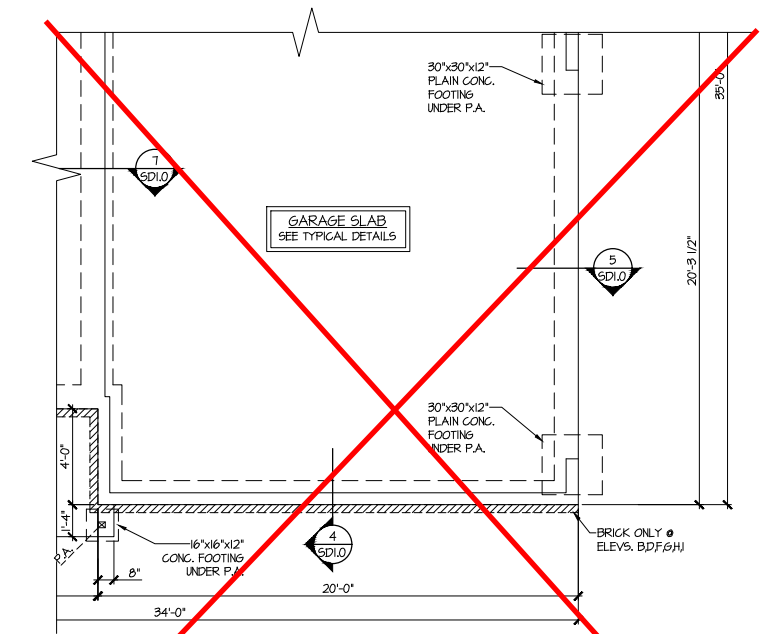
1 MONO-SLAB FOUNDATION PLAN
SCALE: 1/4"=1'-0" ON 22x34
1/8"=1'-0" ON 11x17
ALL ELEV. SIM.



2 PARTIAL MONO-SLAB FOUNDATION PLAN
SCALE: 1/4"=1'-0" ON 22x34
1/8"=1'-0" ON 11x17
OPT. COVERED PATIO
ALL ELEV. SIM.
SEE BASE ELEV. FOR ADD'L INFO



3 PARTIAL MONO-SLAB FOUNDATION PLAN
SCALE: 1/4"=1'-0" ON 22x34
1/8"=1'-0" ON 11x17
OPT. LARGE COVERED PATIO
ALL ELEV. SIM.
SEE BASE ELEV. FOR ADD'L INFO

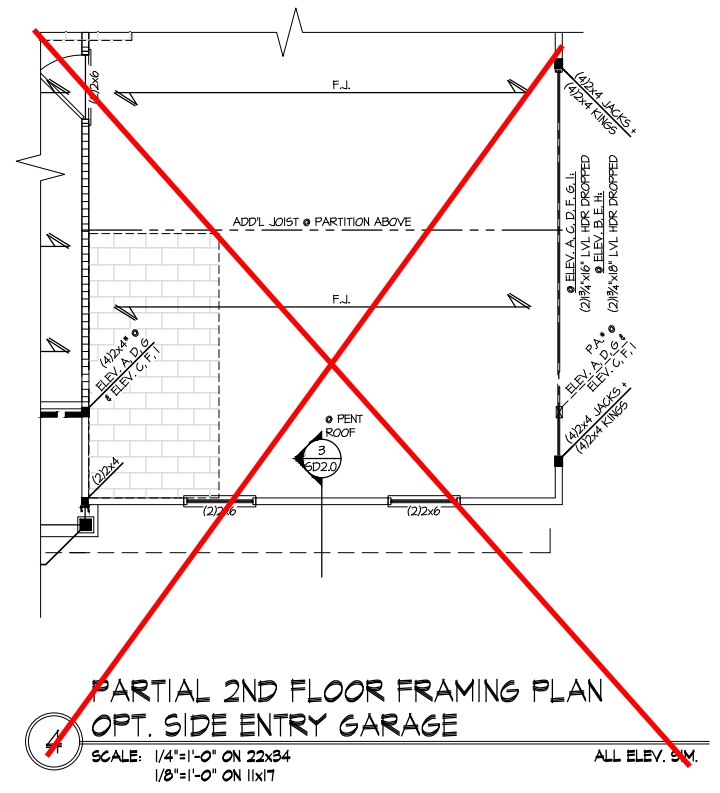
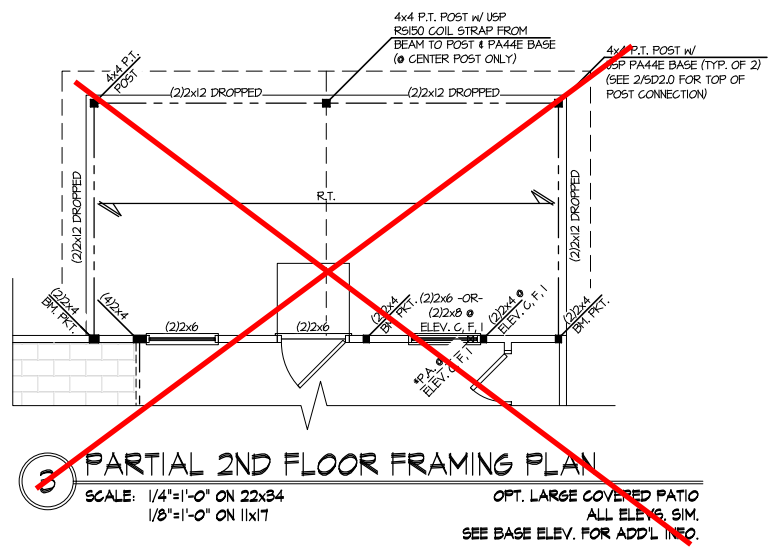
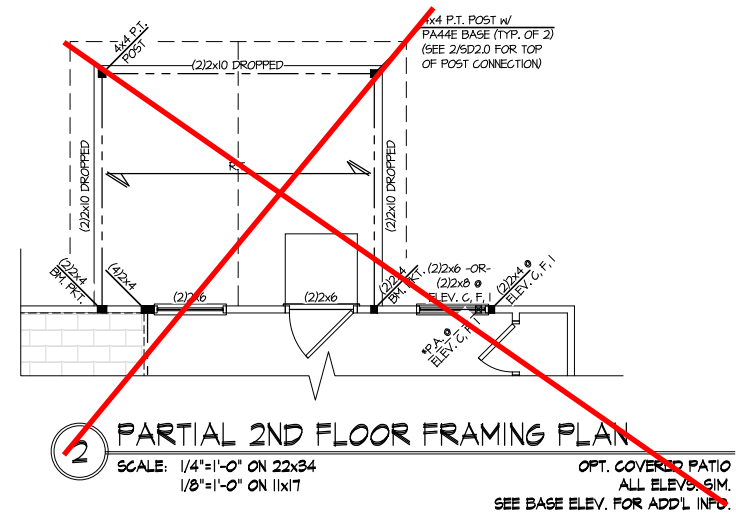
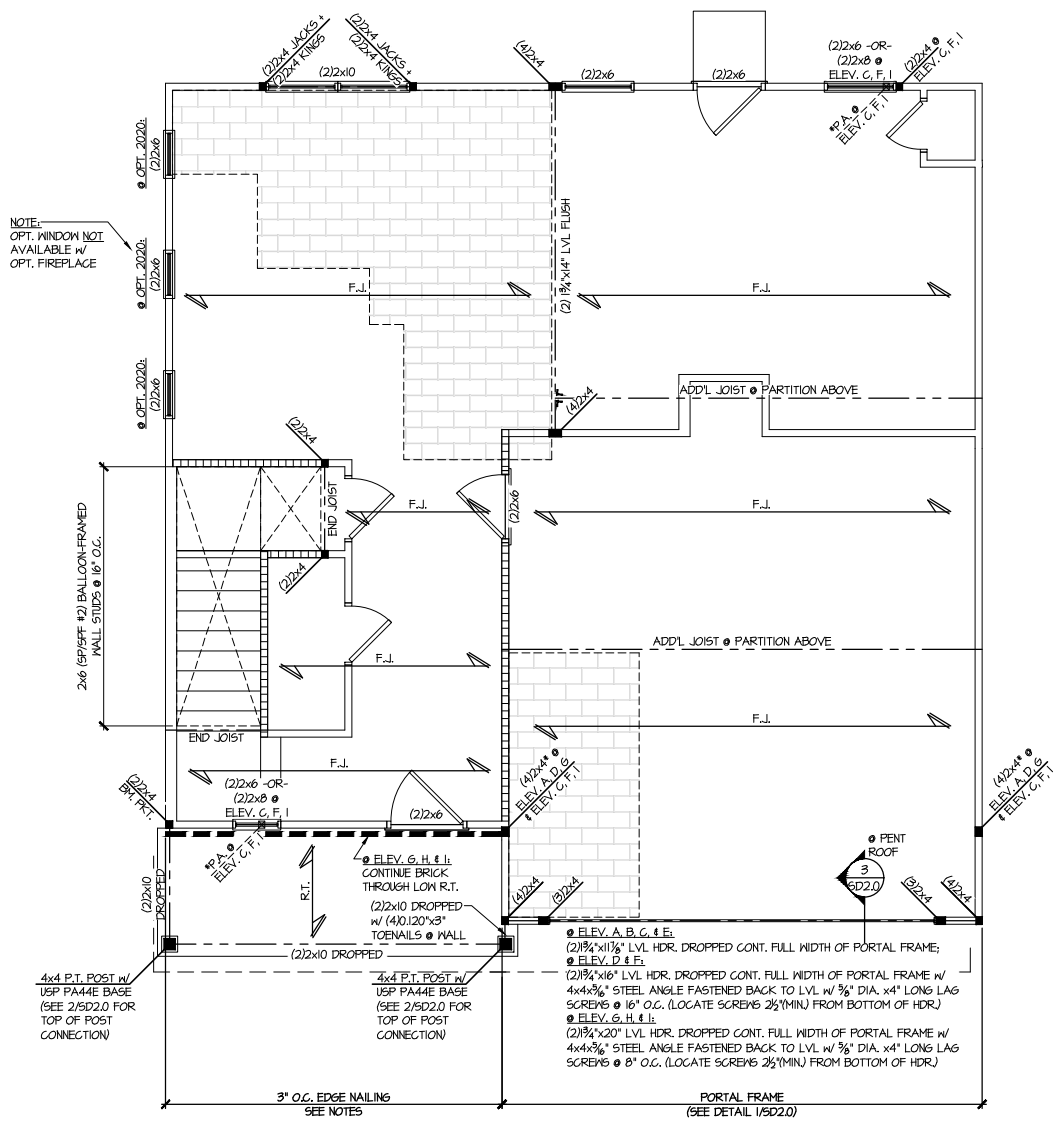


4 PARTIAL MONO-SLAB FOUNDATION PLAN
OPT. SIDE ENTRY GARAGE
SCALE: 1/4"=1'-0" ON 22x34
1/8"=1'-0" ON 11x17
ALL ELEV. SIM.

Cedar Pointe
LOT 16

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.



**Cedar Pointe
LOT 16**

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

REFER TO S0.0 FOR TYPICAL
STRUCTURAL NOTES & SCHEDULES

LEGEND	
	INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. UNO.)
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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 (7/16" 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

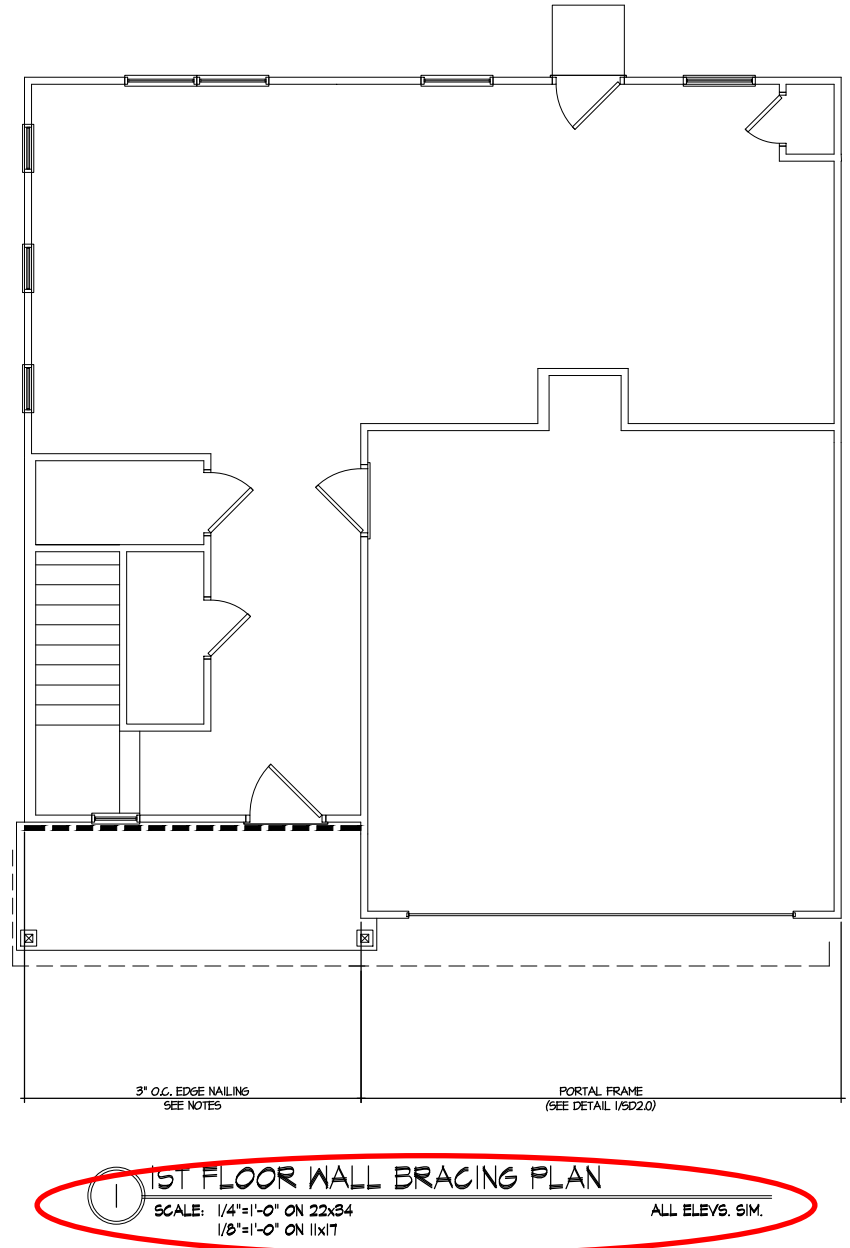
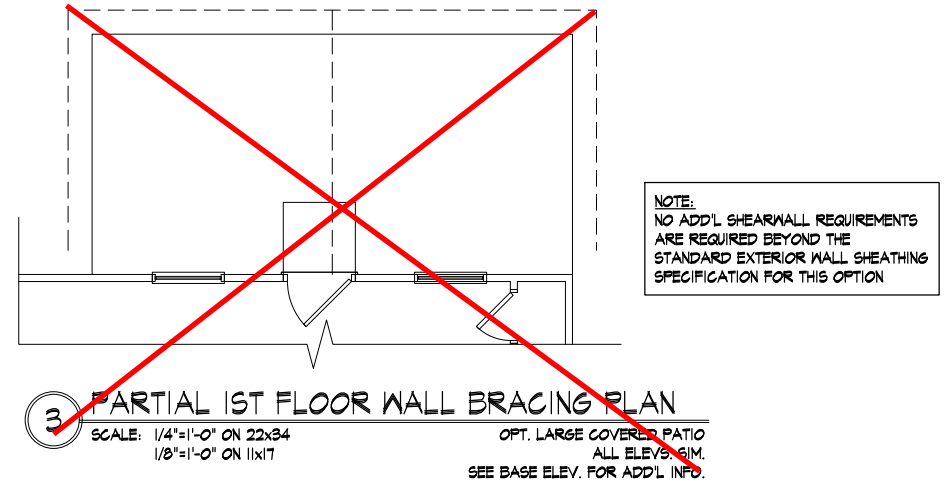
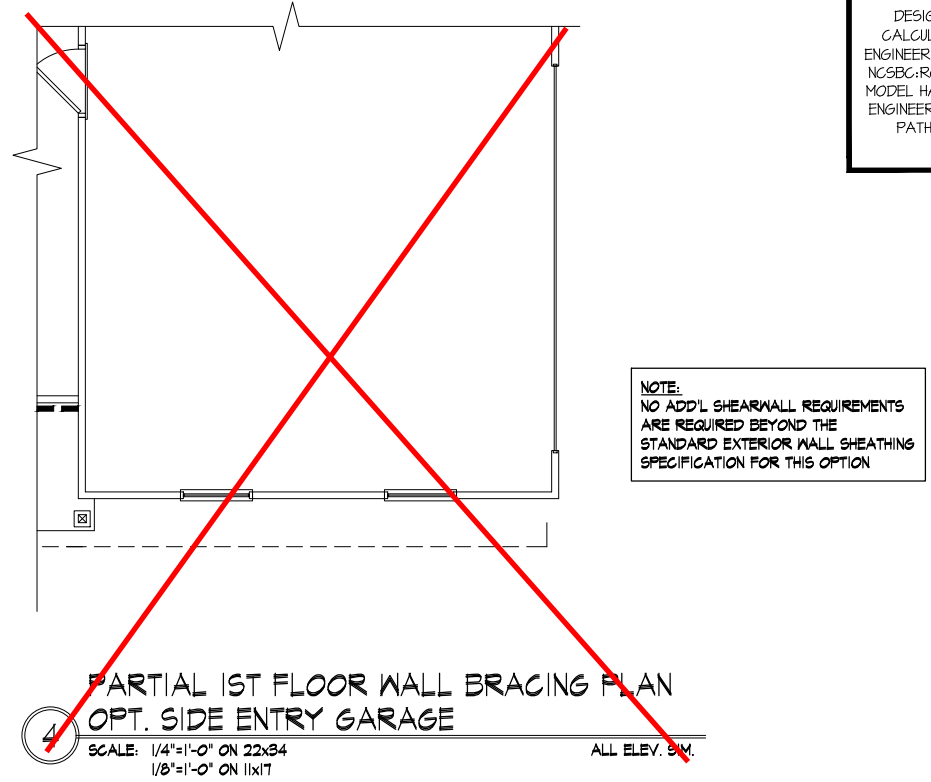
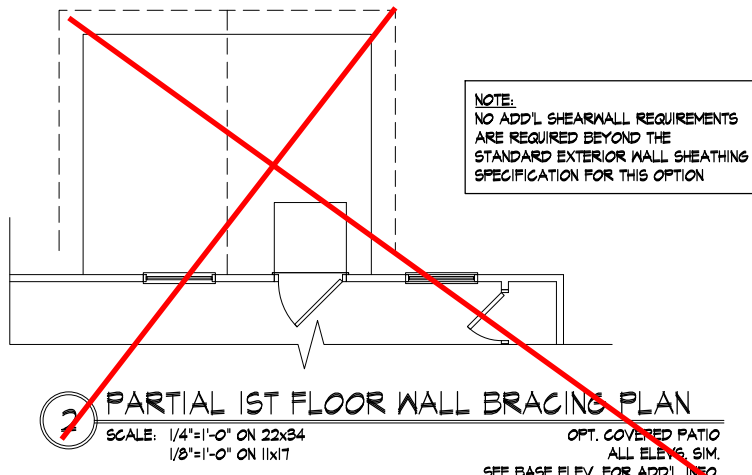
Cedar Pointe
LOT 16

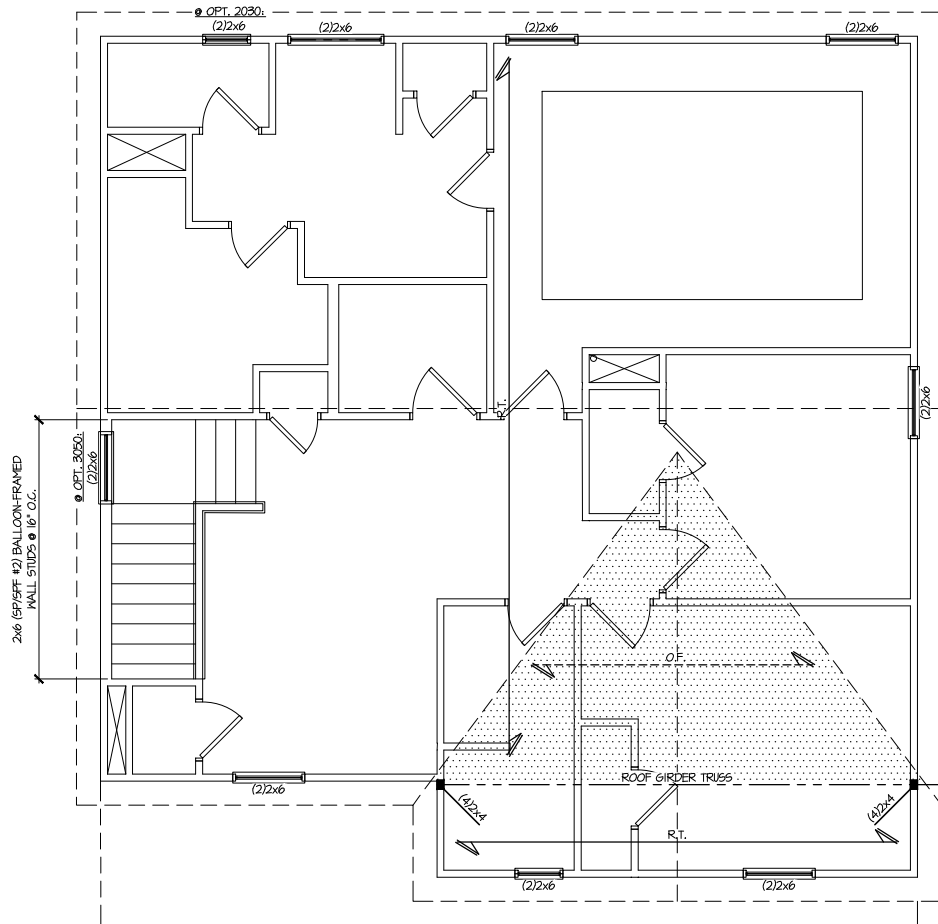
THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT

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

LEGEND

- R.T. INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. UNO.)
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- BEAM/HEADER
- METAL HANGER
- INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.



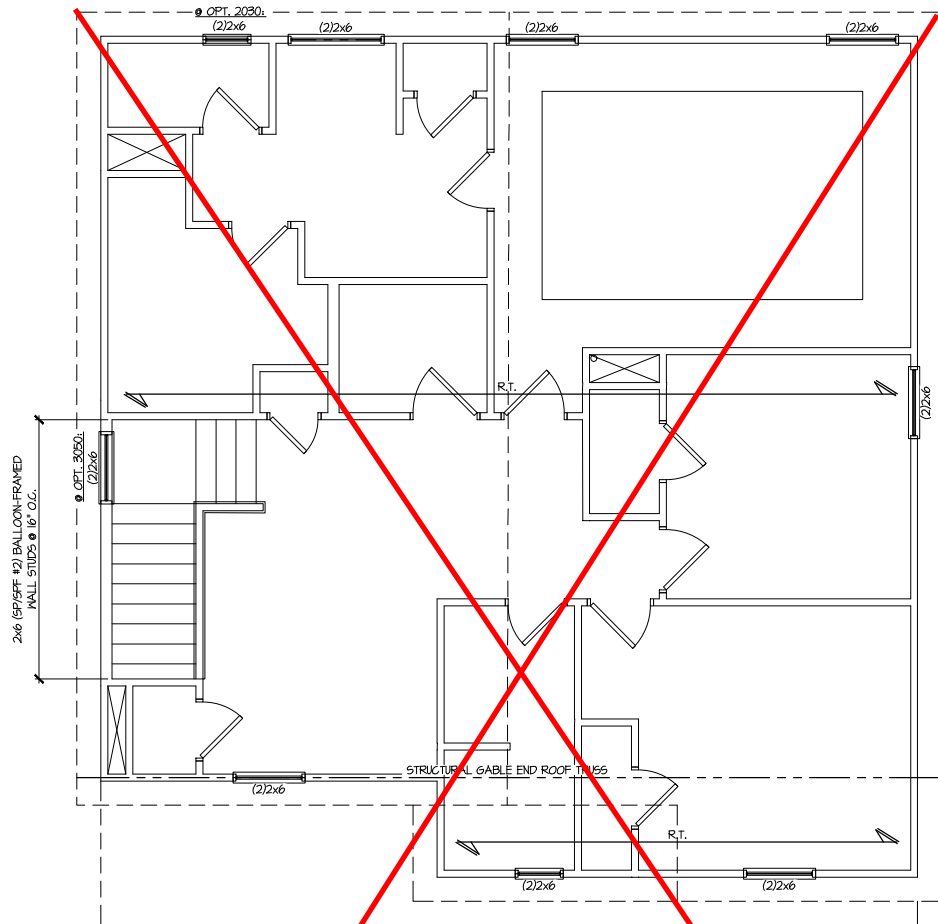


1

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.

Cedar Pointe
LOT 16

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

REFER TO S0.0 FOR TYPICAL
STRUCTURAL NOTES & SCHEDULES

LEGEND

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•

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•

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•

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.)

•

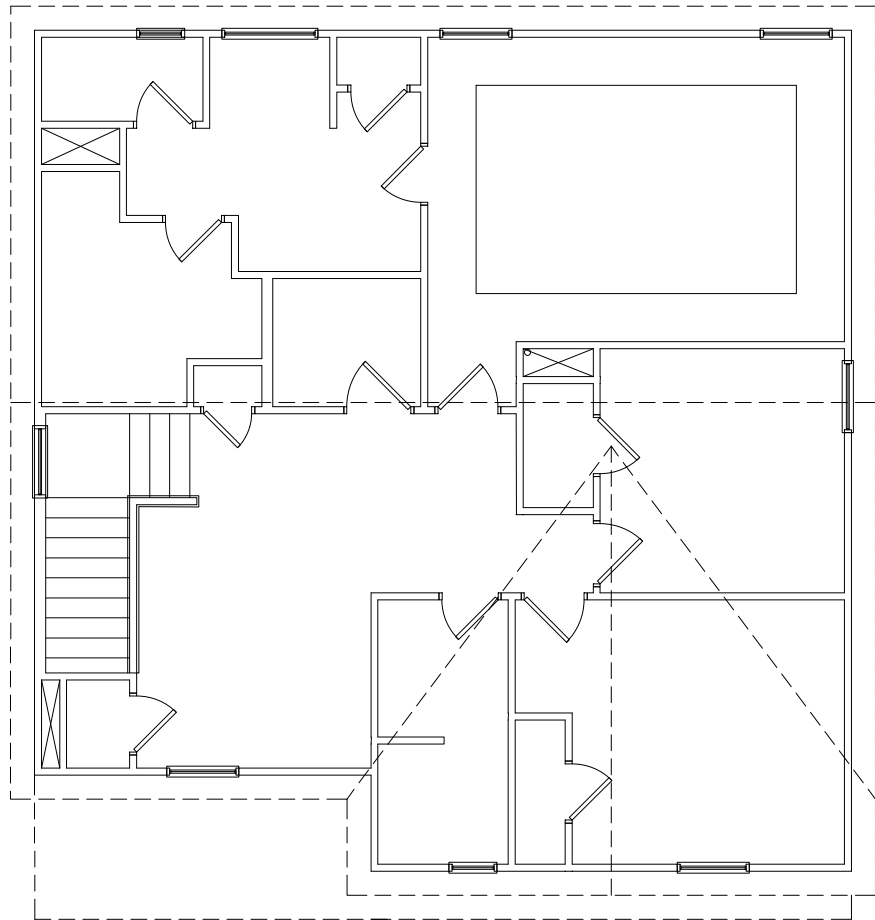
BEAM/HEADER

•

METAL HANGER

•

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



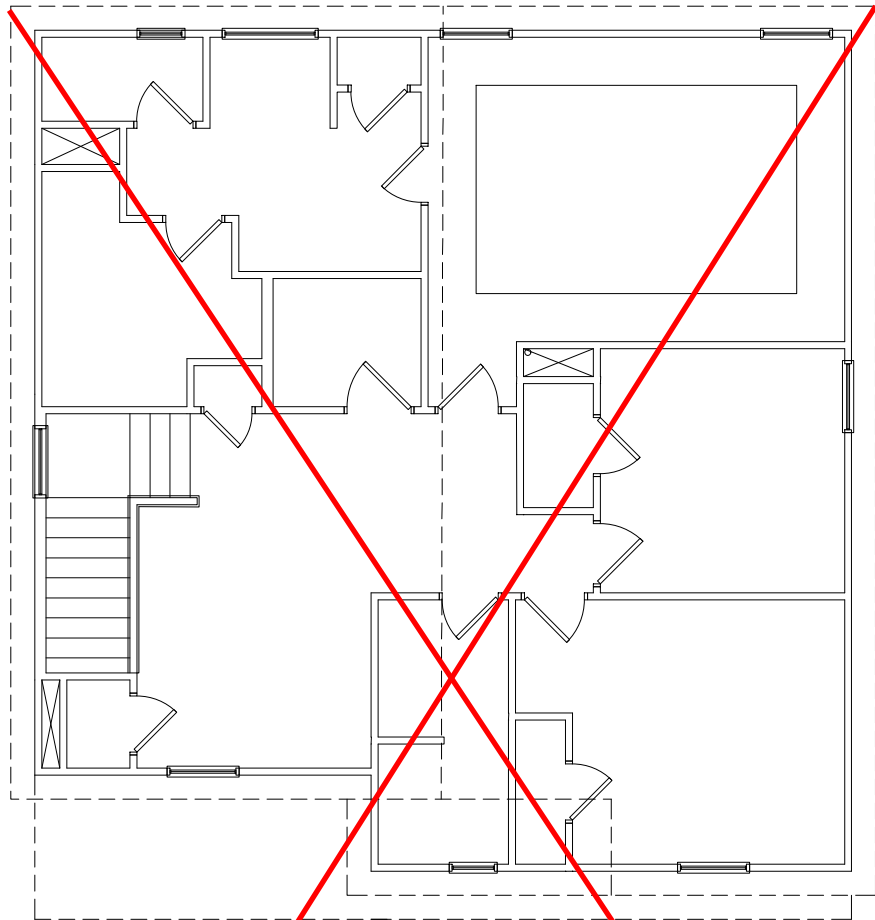
NOTE:
NO ADD'L SHEARWALL REQUIREMENTS
ARE REQUIRED BEYOND THE
STANDARD EXTERIOR WALL SHEATHING
SPECIFICATION FOR THIS ELEVATION



2ND FLOOR WALL BRACING PLAN

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

ELEV. A
ELEVS. D & G SIM.



NOTE:
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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

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MHK STD. - MAR 2016

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▶ INDICATES HOLDOWN

MHK STD. - MAR 2016

**Cedar Pointe
LOT 16**

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

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

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7/14/23

Seal of the State of North Carolina
Professional Engineer
SHAUN KREIDEL
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Structural Engineering, Inc.

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

3825 Shallowford Parkway, Suite 105 • Alpharetta, GA 30022
970-777-8874 • info@mulhernkulp.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

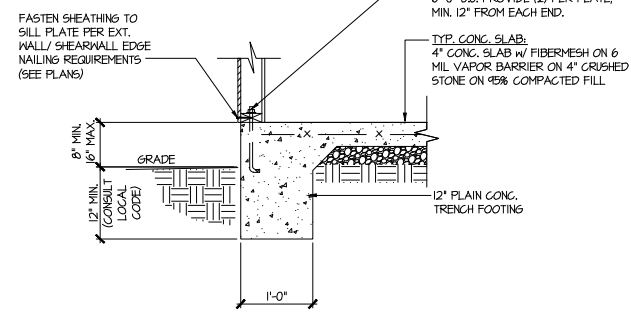
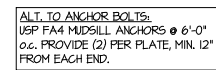
2ND FLOOR WALL BRACING PLAN

BENSON II MODEL

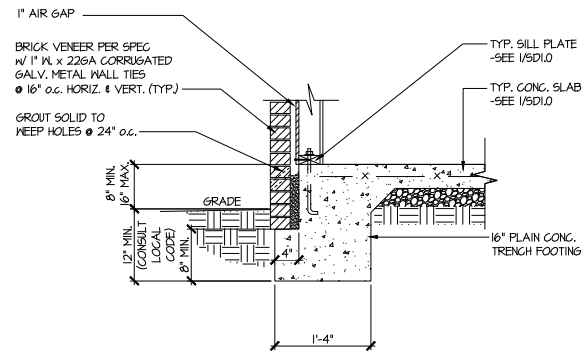
120 MPH WIND ZONE
NORTH CAROLINA

sheet:

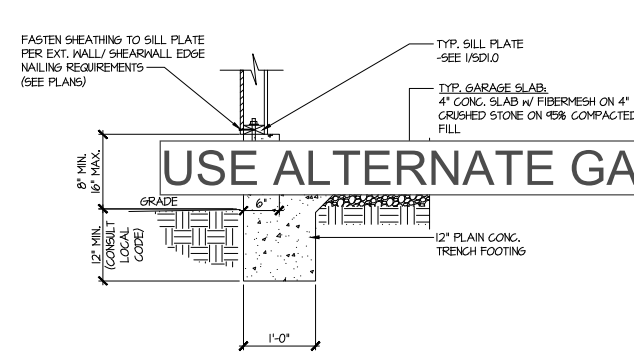
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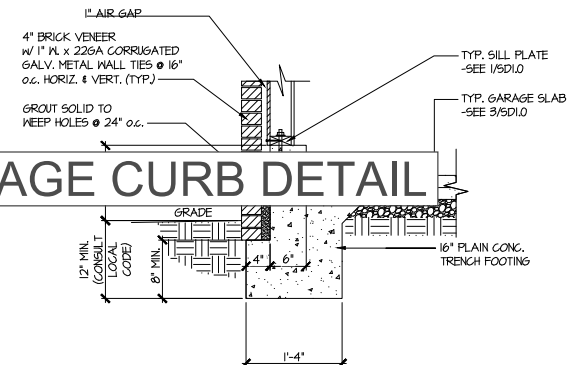
1 TYPICAL SLAB ON GRADE PERIMETER FOOTING



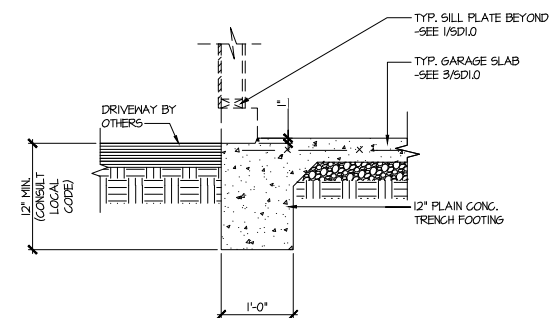
2 TYPICAL SLAB ON GRADE PERIMETER FOOTING



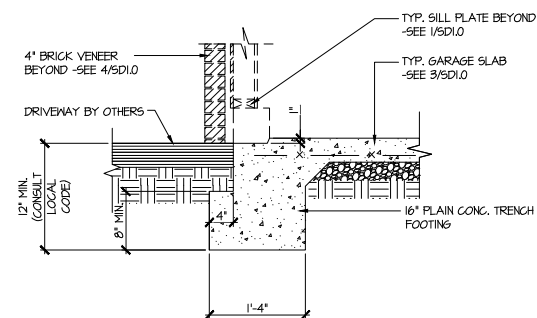
3 TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING



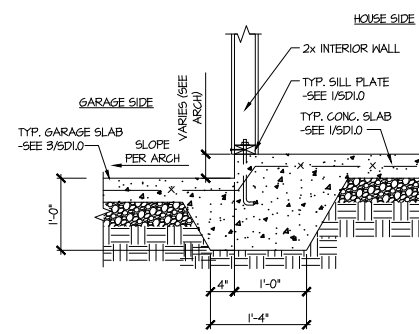
4 TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING



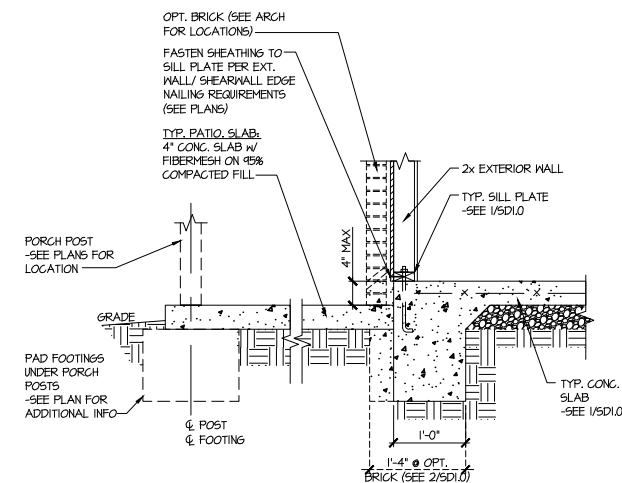
5 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING



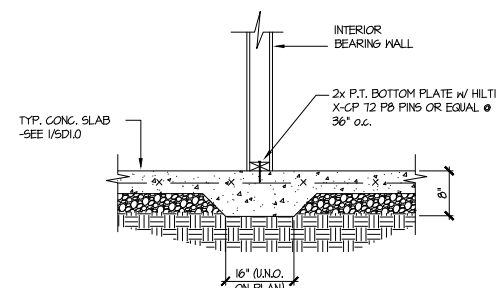
6 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING w/ BRICK VENEER



7 TYPICAL MONOLITHIC INTERIOR GARAGE FOOTING



8 TYPICAL SLAB ON GRADE PERIMETER
FOOTING @ PORCH/PATIO



9 TYPICAL THICKENED SLAB @
INTERIOR BEARING WALL



 **MULHERN+KULP**
RESIDENTIAL STRUCTURAL ENGINEERING
3825 Beechdale Parkway, Suite 305 • Alpharetta, GA 30022
770-771-5800 • info@mulhernkulp.com
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Mulhern+Kulp project number:
256-22019

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

REVISIONS:	
date:	initial:

SMITH DOUGLAS
HOMES

FOUNDATION DETAILS

BENSON II MODEL

120 MPH WIND ZONE

NORTH CAROLINA

sheet:

SD 1.0

Cedar Pointe
LOT 16



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

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

August 18, 2023

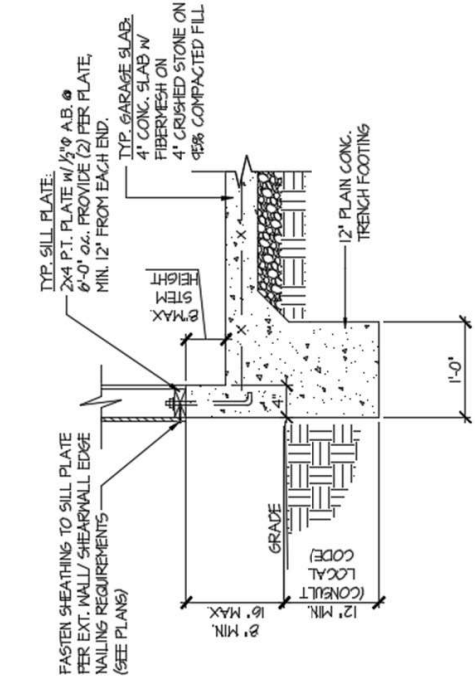
Jody Hunt
Director of Product Development
SMITH DOUGLAS HOMES
110 Village Trail, Suite 215
Woodstock, GA 30188

ALTERNATE GARAGE CURB DETAIL
Smith Douglas Homes

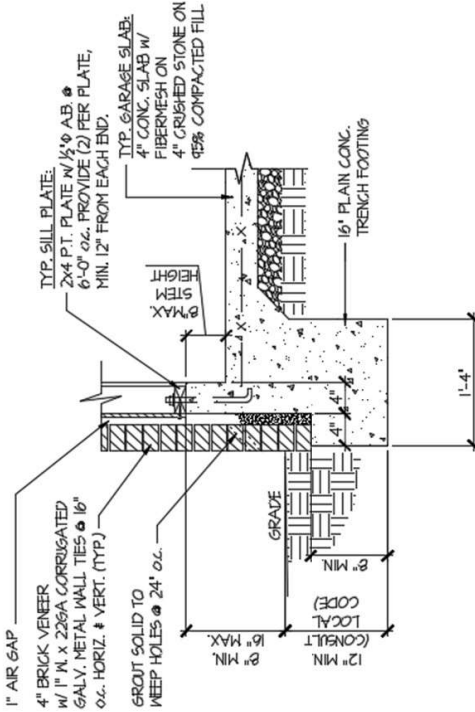
Reference
Current Structural Plans prepared by Mulhern & Kulp

Jody:

Pursuant to your request, we have prepared this letter to address the “*Alternate Garage Curb Details*”, prepared by Mulhern & Kulp for Smith Douglas Homes shown below. The foundation details shown below call for a 4” wide curb with a maximum of 8” stem wall height; these are an acceptable alternative to the 6” wide curb at the garage per M&K foundation details 3 & 4 on sheet SD-1.0 at 2x4 garage wall locations.



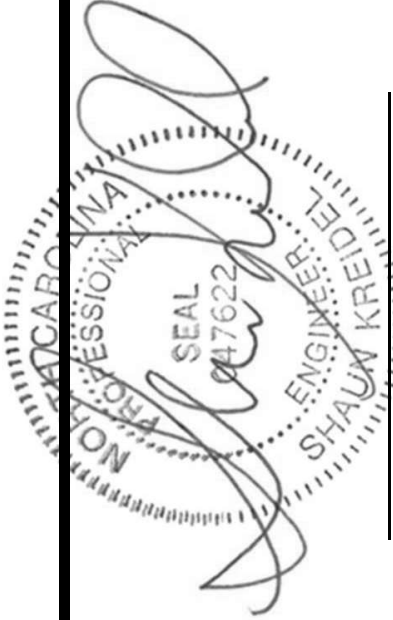
TYPICAL SLAB ON GRADE GARAGE
PERIMETER FOOTING
(A)



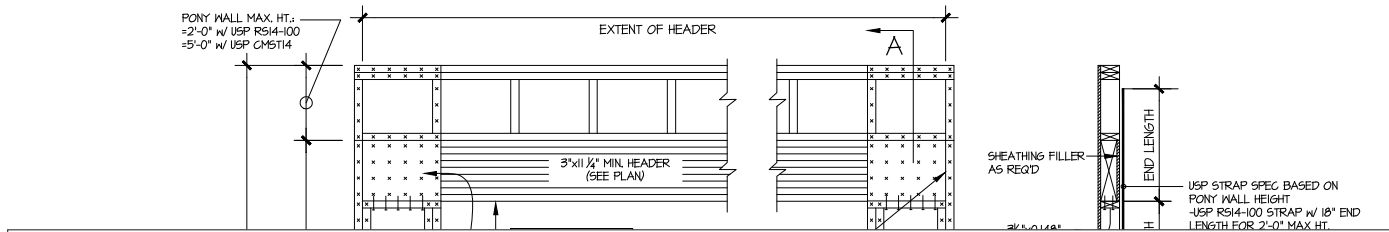
TYPICAL SLAB ON GRADE GARAGE
PERIMETER FOOTING
(B)

Please feel free to call if you have any questions.

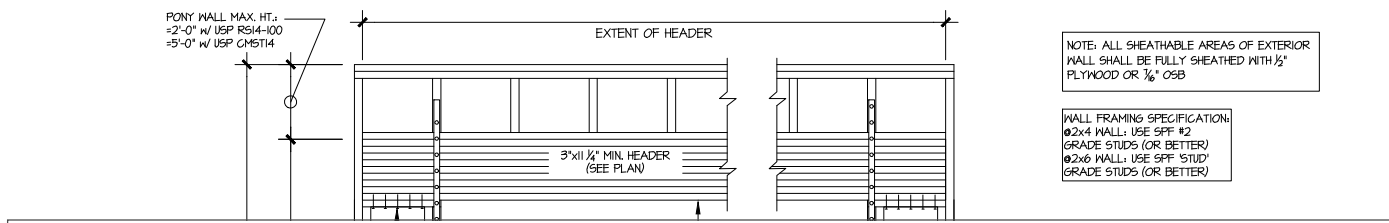
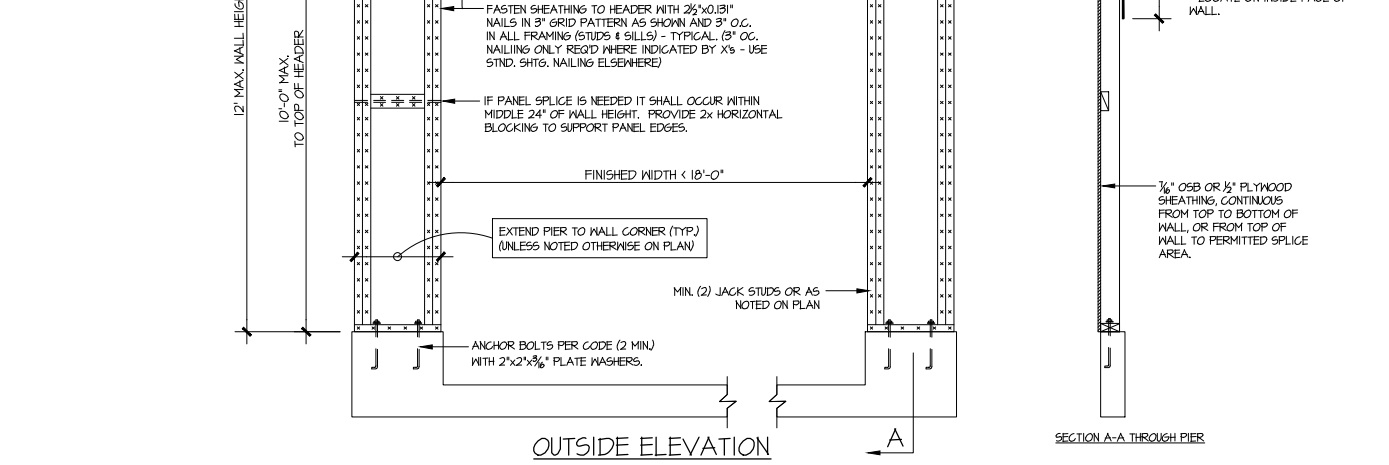
Respectfully,
MULHERN & KULP STRUCTURAL ENGINEERING, INC.
NC License # C-3825
Shaun M. Kreidel, P.E. *Project Manager + Atlanta Office Director*



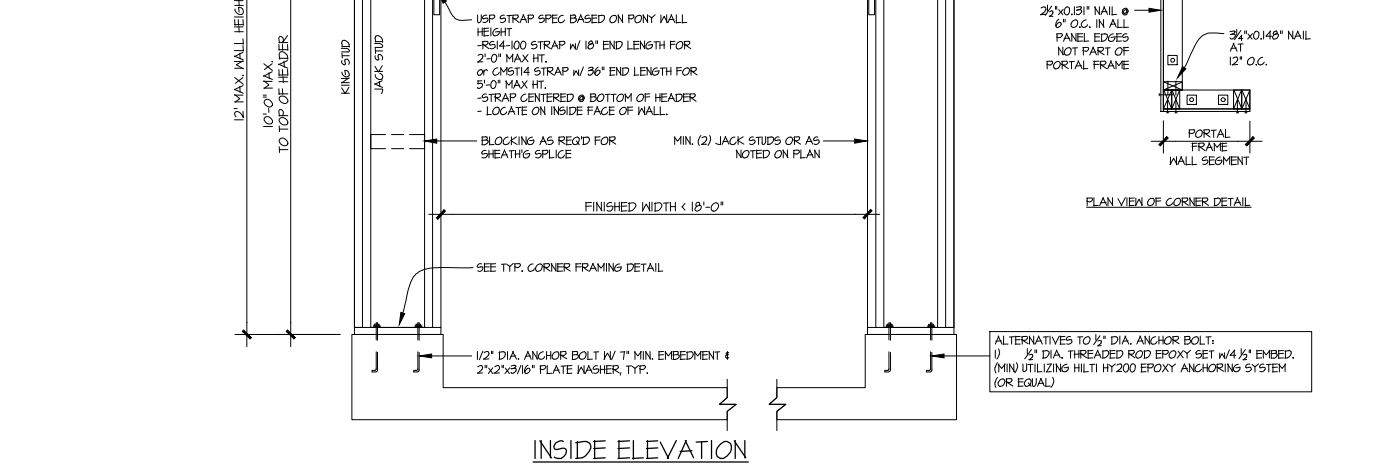
Signature + Seal 08/18/2023



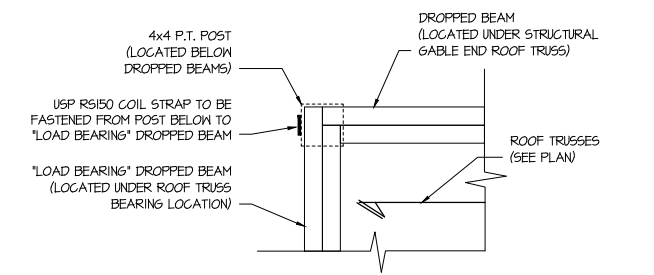
USE ALTERNATIVE GARAGE PORTAL FRAME DETAIL PF120



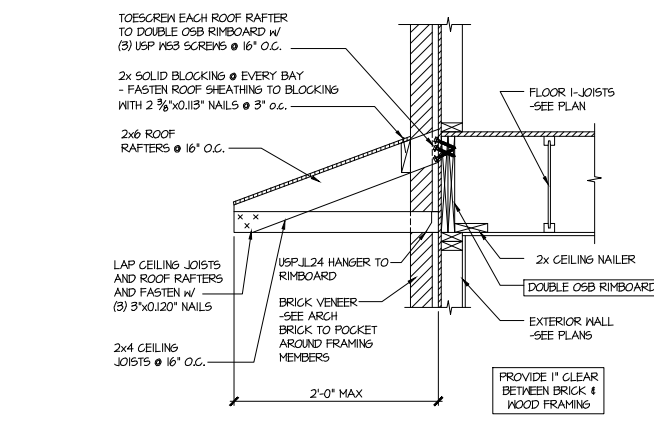
USE ALTERNATIVE GARAGE PORTAL FRAME DETAIL PF120



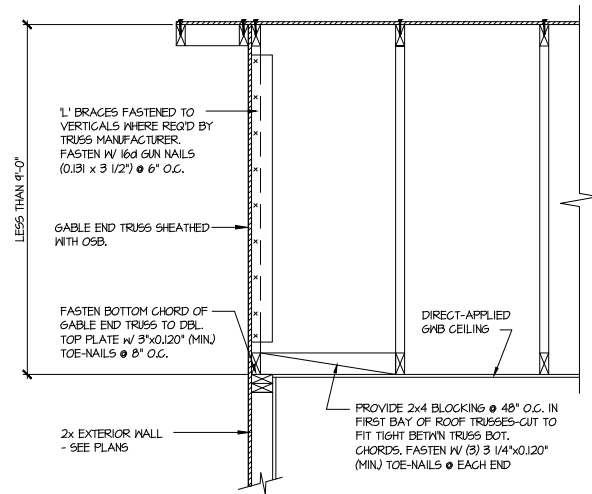
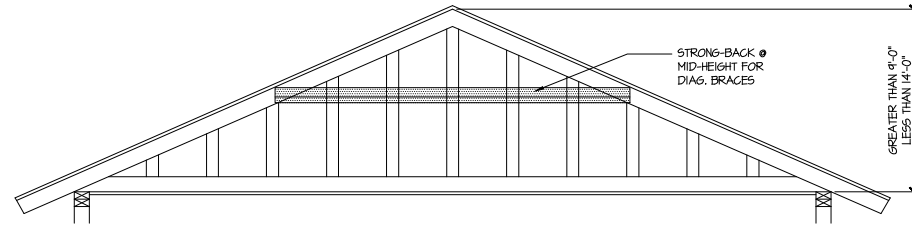
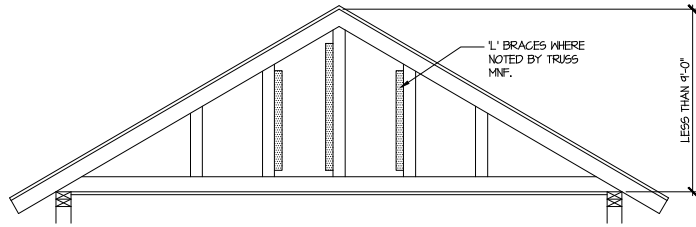
1 GARAGE PORTAL FRAME BRACING ELEVATION
SCALE: N.T.S.
BOTH SIDES OF GARAGE DOOR
115 MPH WIND SPEED (ULT)



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

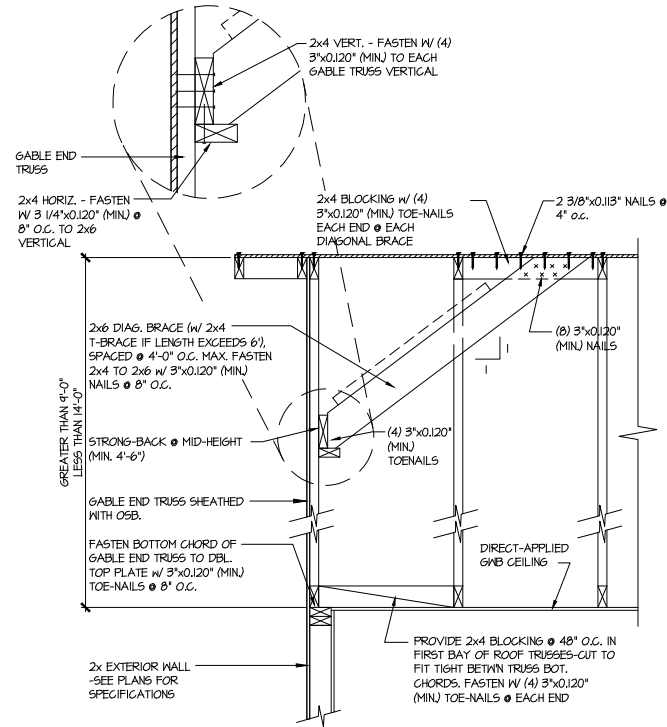


3 DETAIL @ PENT ROOF
SCALE: 3/4"=1'-0"



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 16

7/14/23
SEAL
SHAUN KREIDEL
ENGINEER
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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

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

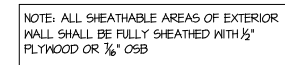
Signature + Seal 07/28/2023

Project mgr: SMK
Drawn by: RAP
Issue date: 07.28.2023

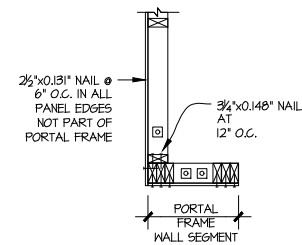
SMITH DOUGLAS
HOMES

ALTERNATE PORTAL FRAME
PORTAL FRAME

PF-120



WALL FRAMING SPECIFICATION:
 ●2x4 WALL: USE SPF #2
 GRADE STUDS (OR BETTER)
 ●2x6 WALL: USE SPF 'STUD'
 GRADE STUDS (OR BETTER)



PLAN VIEW OF CORNER DETAIL

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



ALTERNATE GARAGE PORTAL FRAME BRACING ELEVATION

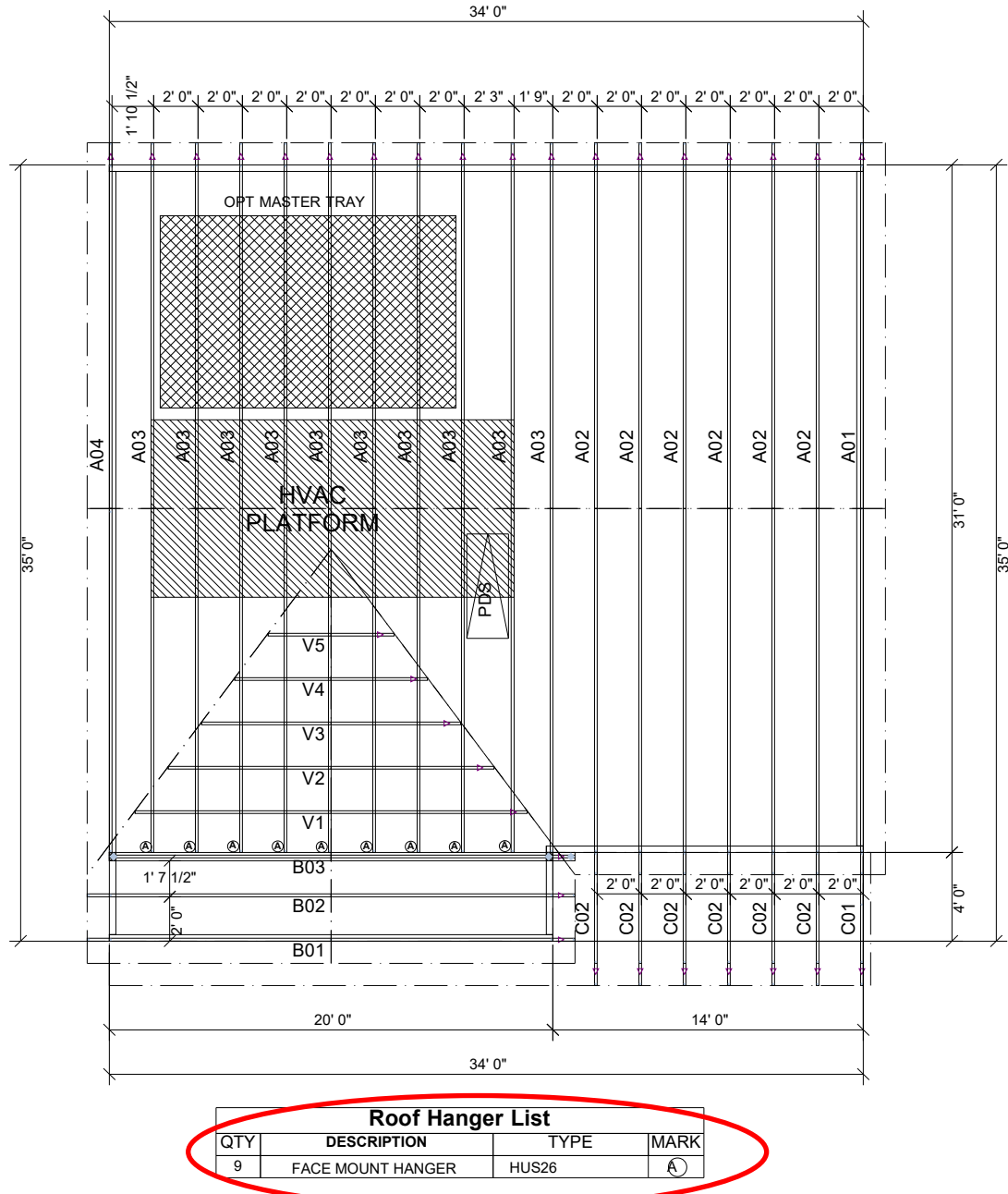
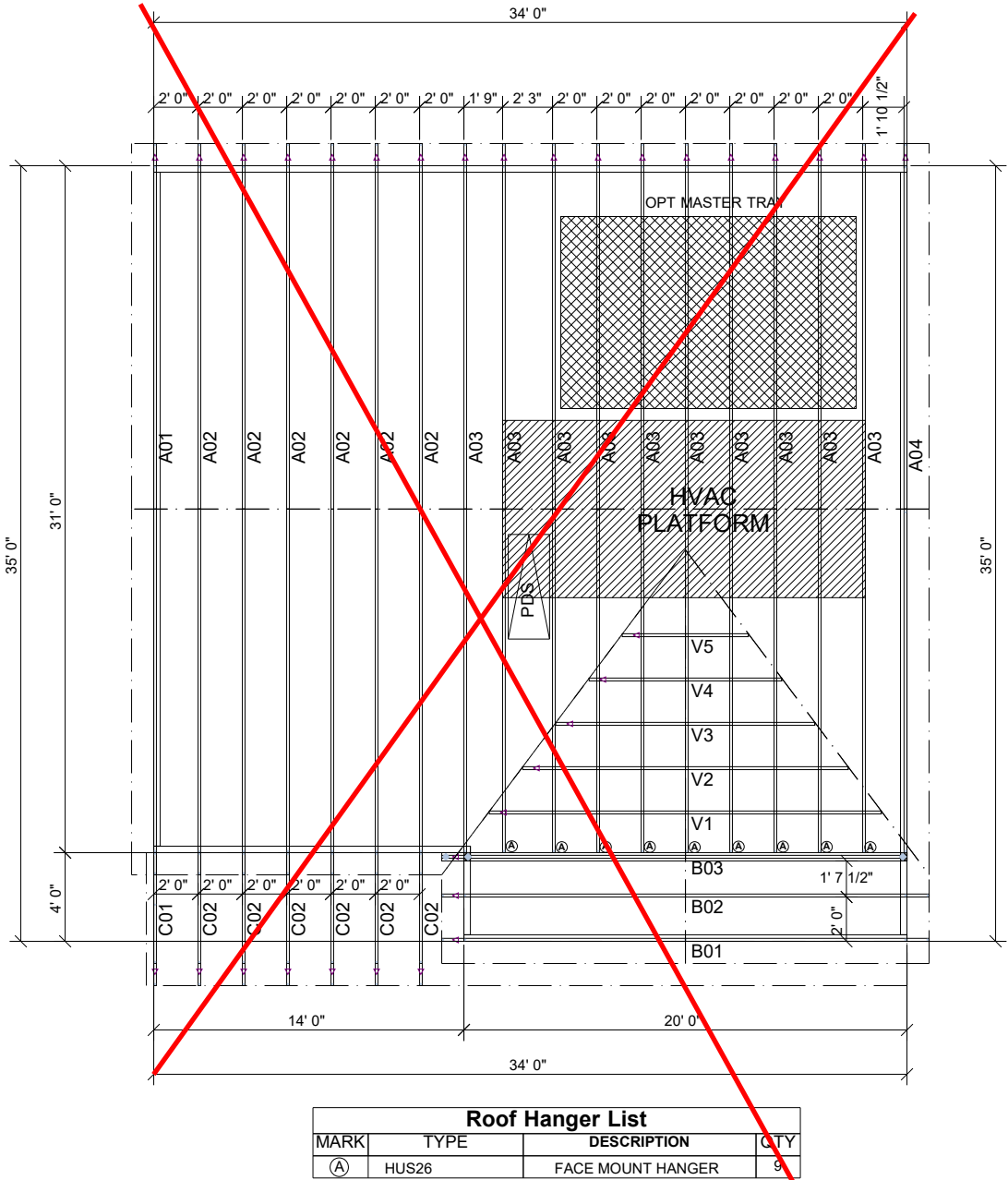
SCALE: N.T.S.

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

Cedar Point
LOT 16

THIS IS A TRUSS PLACEMENT DIAGRAM (TPD) ONLY. NOT AN ENGINEERED DOCUMENT. Trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual truss design drawings (TDD's) for each truss design identified on the TPD. The Contractor is responsible for the temporary bracing of the roof and floor system, and the building designer is responsible for the permanent bracing of the roof and 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. For general guidance regarding installation and bracing, consult "Building Component Safety Information (BCSI)" available from the SBC Association (www.sbcassociation.com). It is the responsibility of the General Contractor to verify that the provided component 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" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED PROFESSIONAL DESIGNATED BY UFP. The Framing is responsible to verify all dimensions, including adjusting member spacing within tolerances to allow for the drop and rise of plumbing/HVAC, unless noted otherwise. Truss-to-wall connections, if shown, are for uplift only and do not consider lateral loads. All connectors on this project are to be installed per the connector manufacturer's specifications. All connectors shown that are not truss-to-truss 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 truss-to-truss as they apply to this specific structure.

PLACEMENT PLAN



△ INDICATES LEFT END OF TRUSS SCALE: 1/8" = 1'

REVISIONS		DSN
DATE	DESCRIPTION	
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
DESIGNER		AMANDA
LAYOUT DATE		NOV 2024
ARCH DATE		-
STRUC DATE		-
JOB #: MASTER		

SMITH DOUGLAS

BENSON II ADG (NO TRAY)

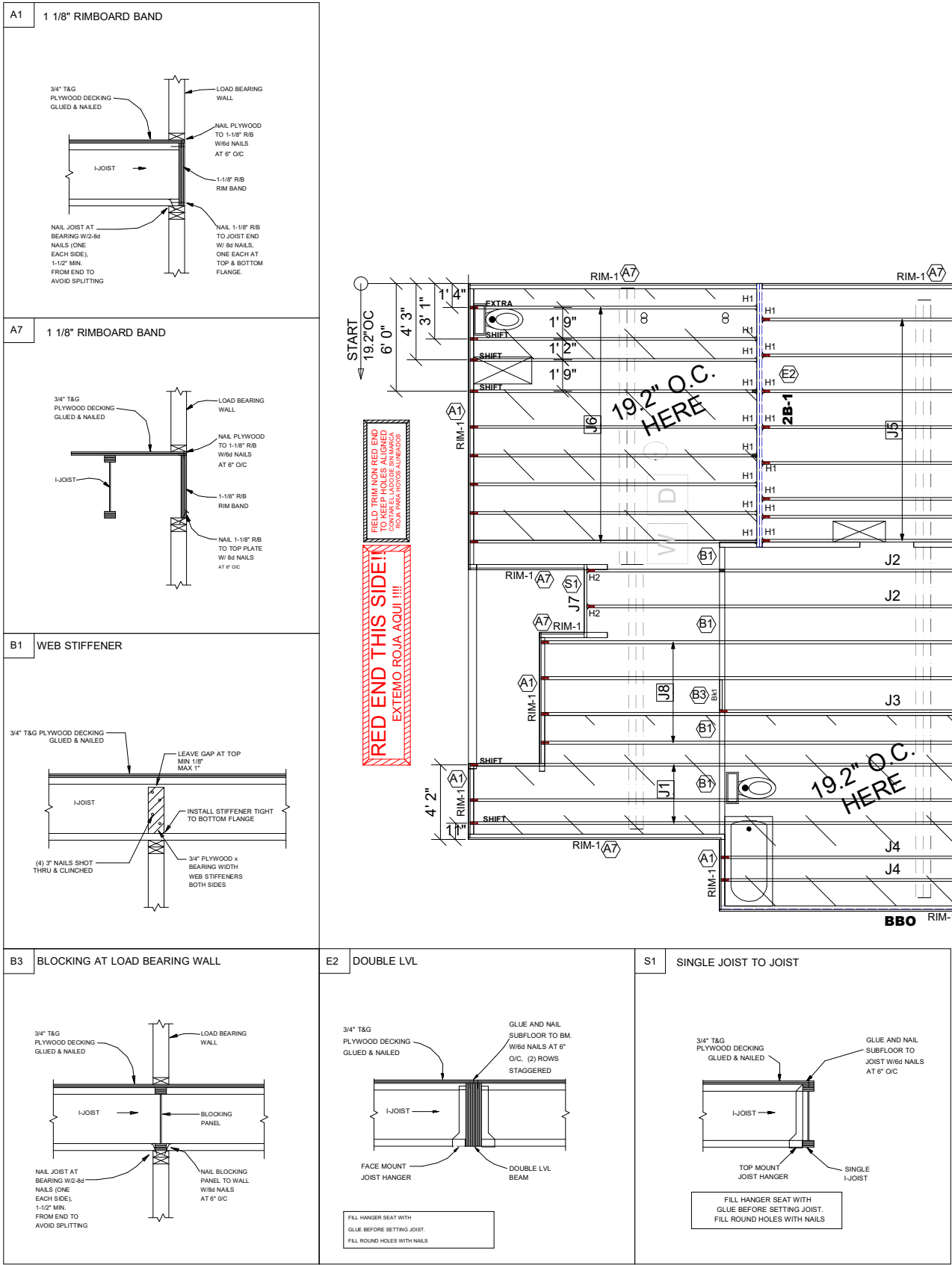
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2ND FLOOR PLACEMENT PLAN



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	34' 0"	14" TJI® 110	1	3	MFD
J2	28' 0"	14" TJI® 110	1	2	MFD
J3	20' 0"	14" TJI® 110	1	1	MFD
J4	20' 0"	14" TJI® 110	1	2	MFD
J5	18' 0"	14" TJI® 110	1	8	MFD
J6	16' 0"	14" TJI® 110	1	9	MFD
J7	5' 0"	14" TJI® 110	1	1	MFD
J8	30' 0"	14" TJI® 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" TJI® Rim Board	1	9	MFD
Bk1	2' 0"	14" TJI® 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.

PLAN LEGEND

1B-, 2B-

H-, 1H-, GDH-

*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 NOT

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"	

**FIELD VERIFY DIMENSIONS TO
JOISTS LOCATED UNDER WALLS!!**

2ND FLOOR LAYOUT

SCALE: 1/8"=1'

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Smith Douglas Homes

Lot 16 Cedar Pointe

Benson II A 2nd Floor


Cameron, NC 28326

[illegible]

DESIGNER PB2
LAYOUT DATE 4/10/2025
ARCH DATE 9/1/2022
STRUC DATE 7/14/2023

JOB #: 25040967F2

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