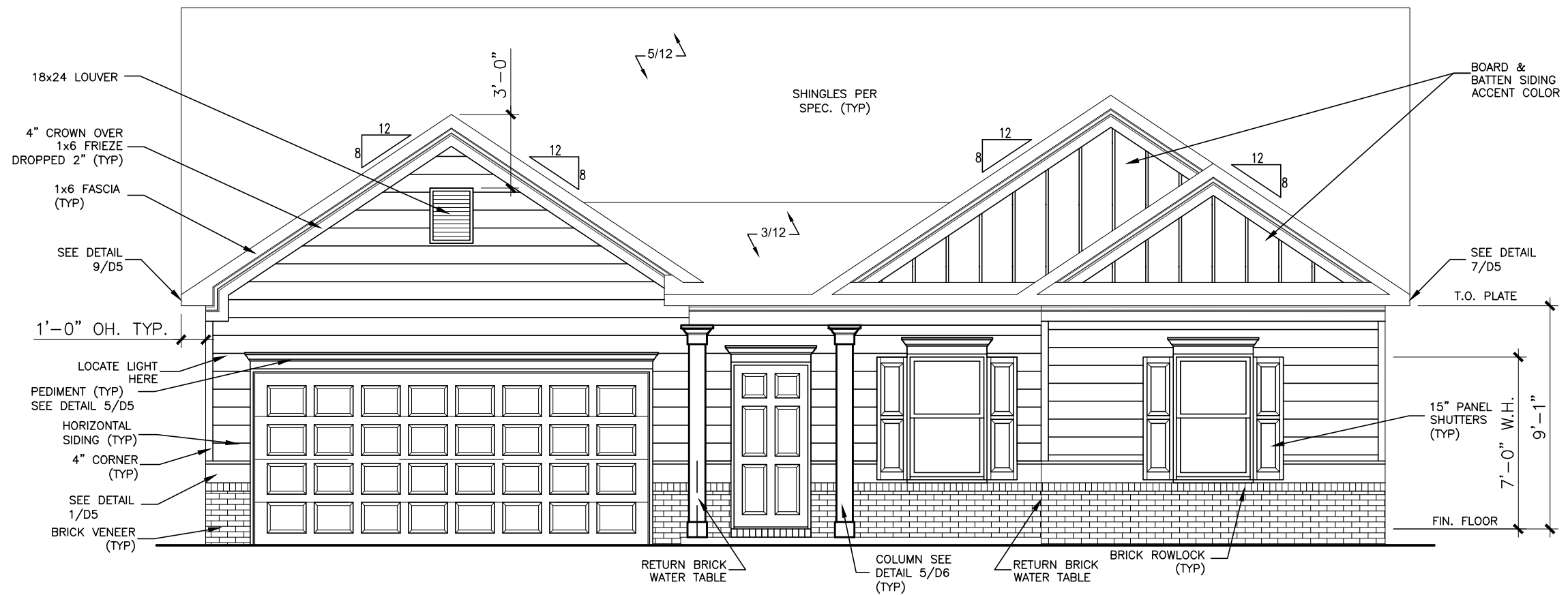


ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

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

DUNCANS CROSSING LOT 0042



FRONT ELEVATION "B"

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

BY	REVISION	DATE
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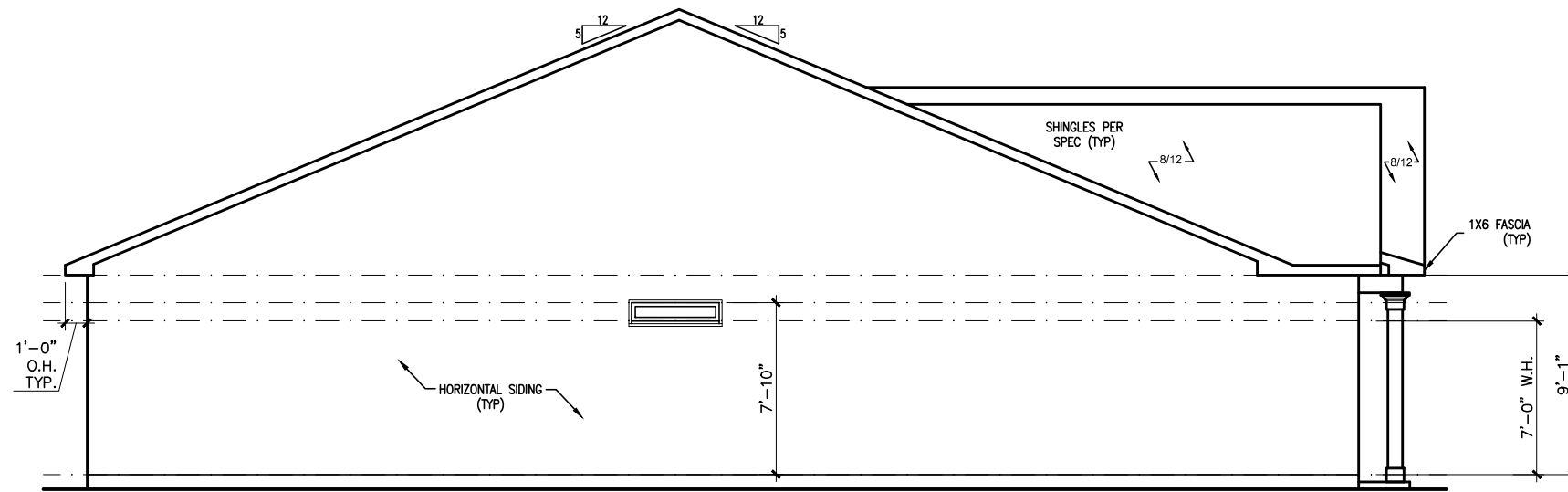
ELEVATIONS
FRONT ELEVATION
AVONDALE

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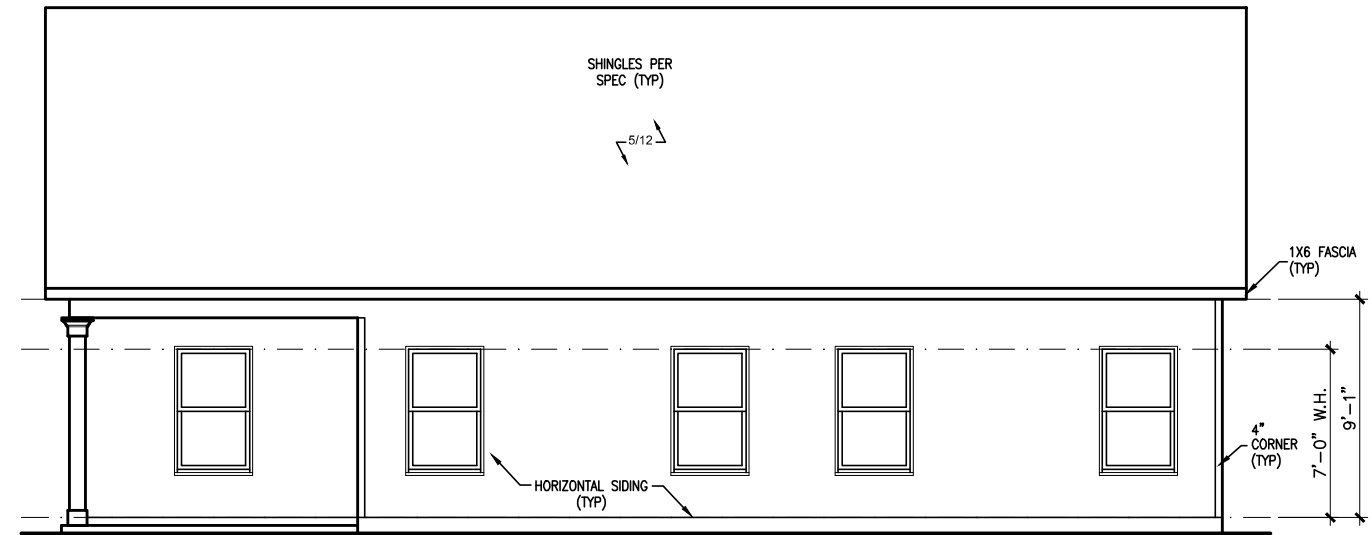
BY: KCC	CH: AW
DATE: 1/2/24	
FACADE OPT: B	
PLAN ID:	
FND: ALL	ELEV: B
PAGE NO: A1.1	

DUNCANS CROSSING LOT 0042



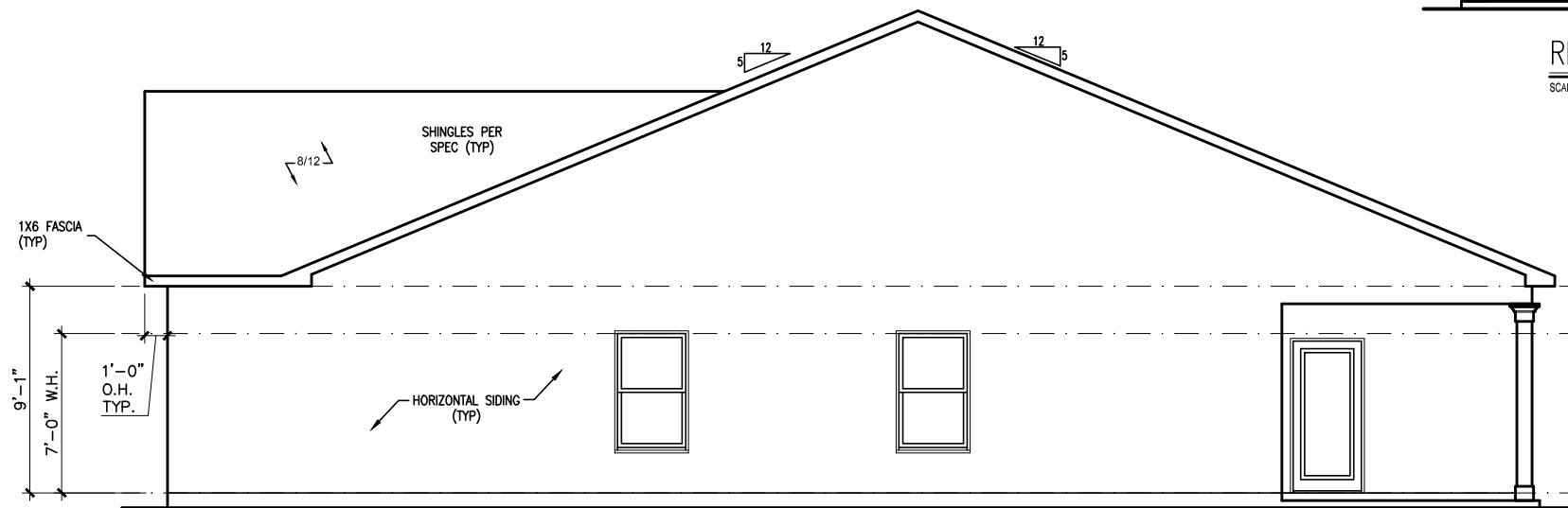
LEFT ELEVATION "B"

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



REAR ELEVATION "B"

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



RIGHT ELEVATION "B"

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

BY	REVISION	DATE
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#	#	#
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#	#	#



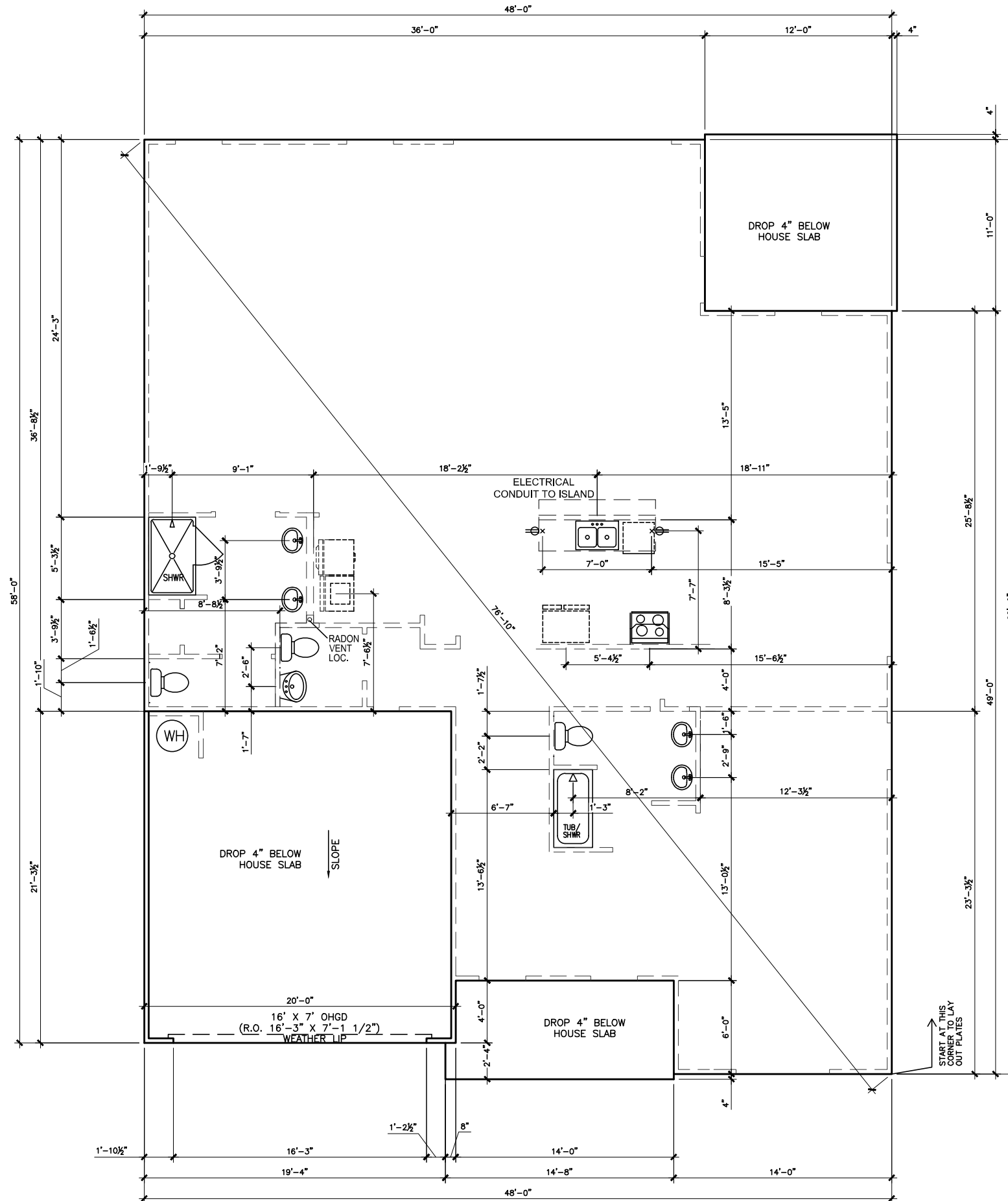
ELEVATIONS
SIDES AND REAR
AVONDALE

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FIN: ALL	ELEV: B
PAGE NO: A2.1	

DUNCANS CROSSING LOT 0042



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

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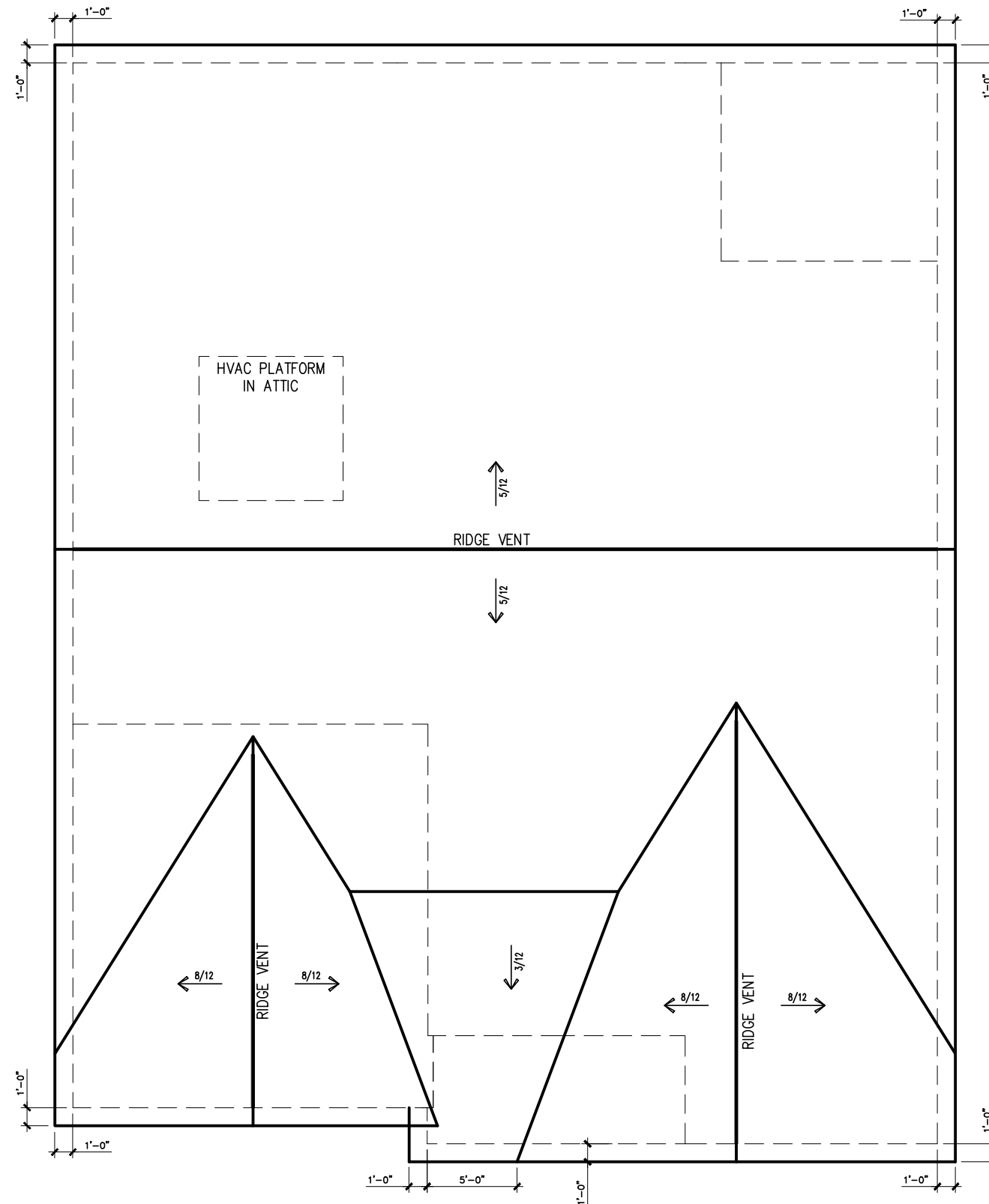
FOUNDATION PLAN
SLAB PLAN
AVONDALE

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PNL: ALL	BLV: B
PAGE NO: A3.1	

DUNCANS CROSSING LOT 0042



ROOF PLAN "B"

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

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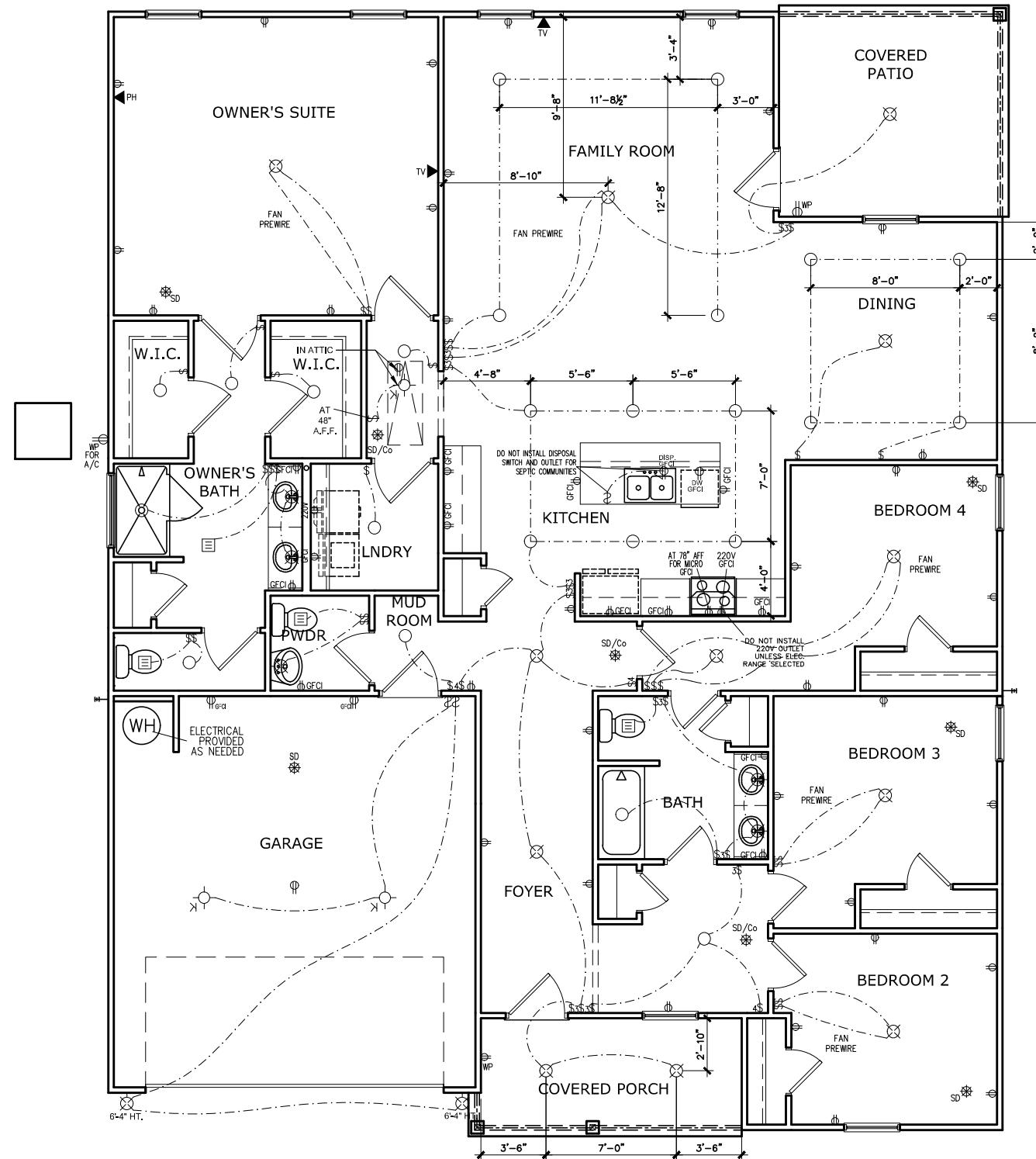
ROOF PLAN
ROOF PLAN
AVONDALE

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DUNCANS CROSSING LOT 0042



ELECTRICAL LEGEND

Ⓢ	SWITCH	▼	TV
Ⓢ3	3 WAY SWITCH	⊕	120V RECEPTACLE
Ⓢ4	4 WAY SWITCH	⊕	120V SWITCHED RECEPTACLE
⊗	CEILING FIXTURE	⊕	220V RECEPTACLE
⊕	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
▼	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

NOTE: ALL FAN PREWIRES ARE OPTIONAL U.N.O. BY BUILDER PER SUBDIVISION SPECIFICATIONS

FIRST FLOOR ELECTRICAL PLAN

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

BY:	#	#	#	#	#
REVISION					
DATE					



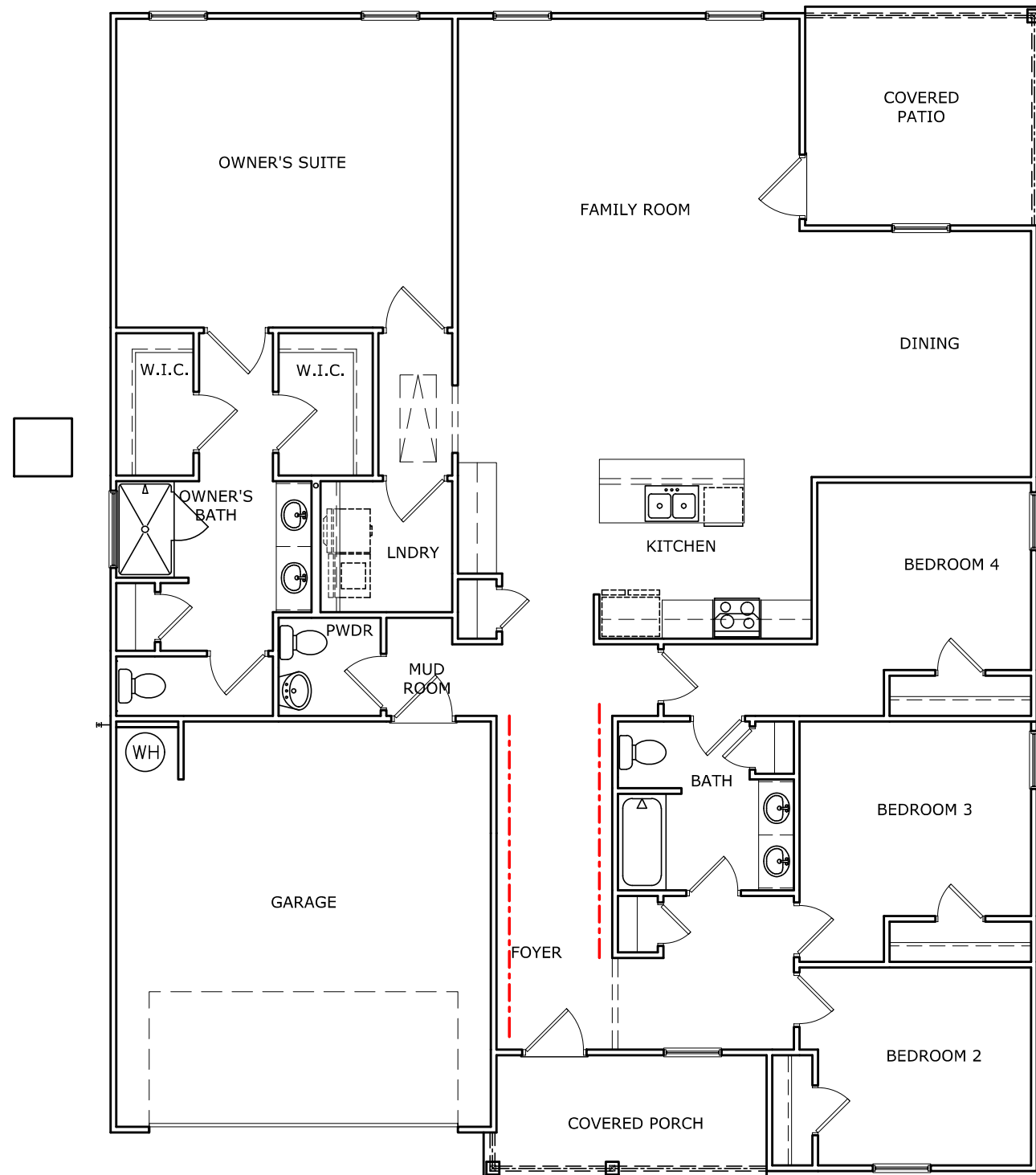
ELECTRICAL PLAN
FIRST FLOOR
AVONDALE

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PLAN ID:			
FND:	ALL	ELEV:	B
PAGE NO:	A7.2		

DUNCANS CROSSING LOT 0042



FOYER TRIM - CHAIR/SHADOW - - - - -

TRIM LAYOUT FIRST FLOOR PLAN

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

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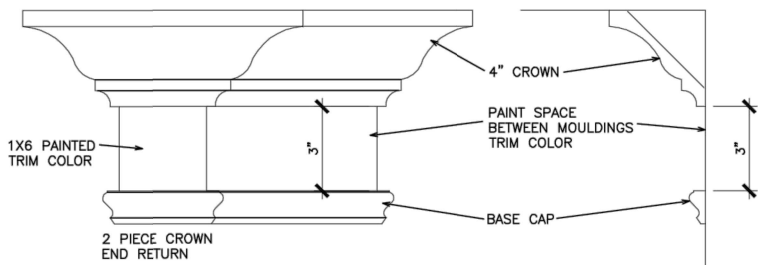
FLOOR PLAN
TRIM LAYOUT
AVONDALE

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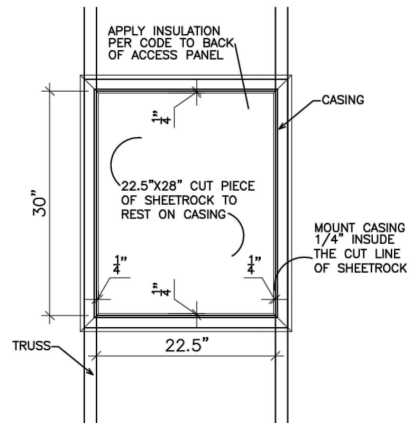
BY: KCC	CH: AW
DATE: 1/2/24	
FACADE OPT: B	
PLAN ID:	
FND: ALL	ELEV: B
PAGE NO: A8.1	

REFER TO LOT SPECIFIC PLAN TO DETERMINE WHICH DETAILS APPLY



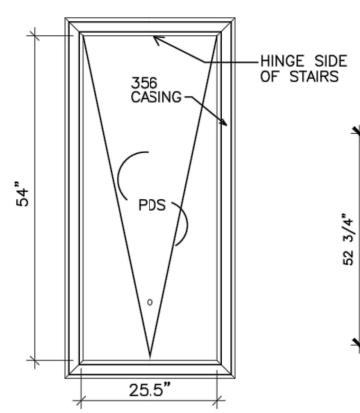
TYPICAL TWO PIECE CROWN

N.T.S.



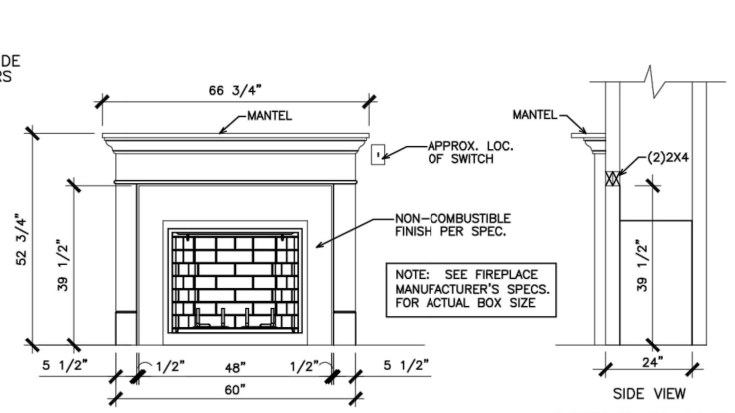
SCUTTLE HOLE DETAIL

N.T.S.



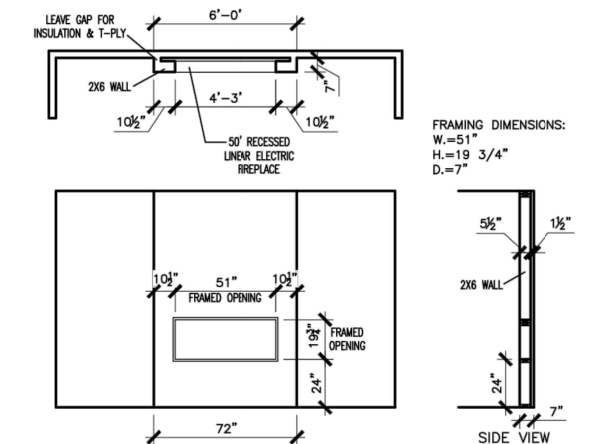
PDS TRIM DETAIL

N.T.S.



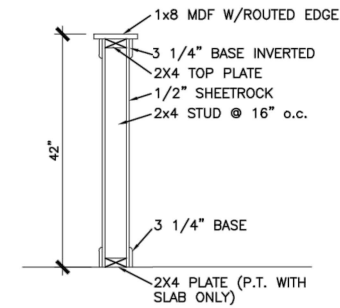
GAS/ELECTRIC FIREPLACE DETAIL WITH WESCOTT WOOD MANTEL

N.T.S.



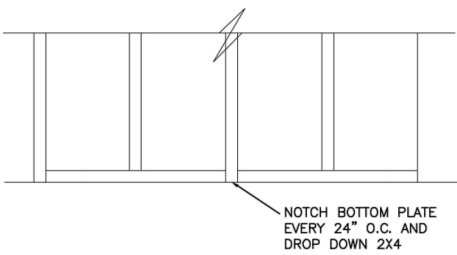
LINEAR ELECTRIC FIREPLACE DETAIL

N.T.S.



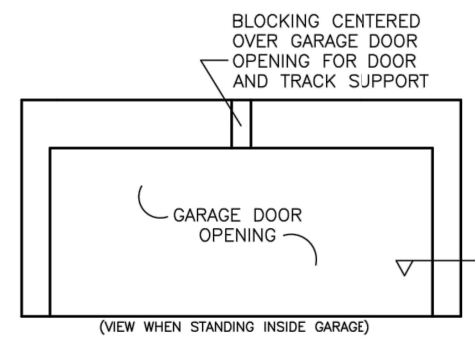
TYP. KNEEWALL SECTION

N.T.S.



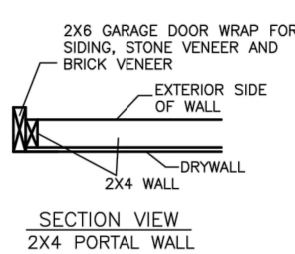
TYP. 2ND FLOOR KNEEWALL STABILITY

N.T.S.

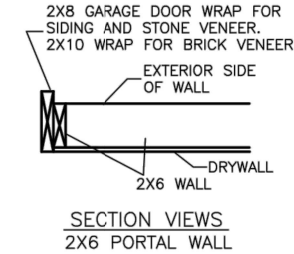


TYP. GARAGE WRAP & BLOCKING

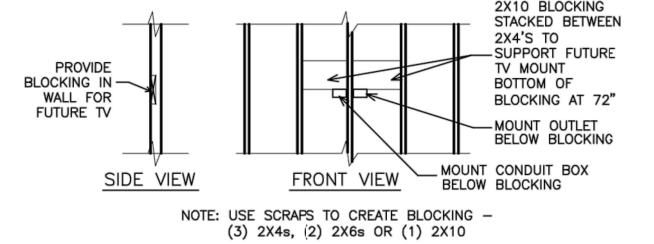
N.T.S.



SECTION VIEW 2X4 PORTAL WALL

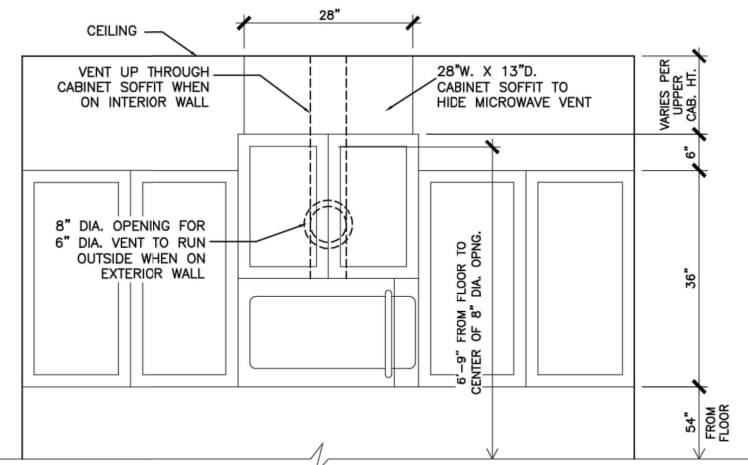


SECTION VIEWS 2X6 PORTAL WALL



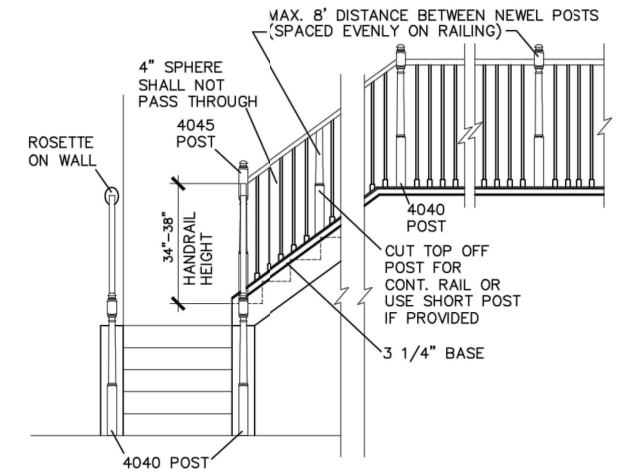
TYP. TV WALL PREP

N.T.S.



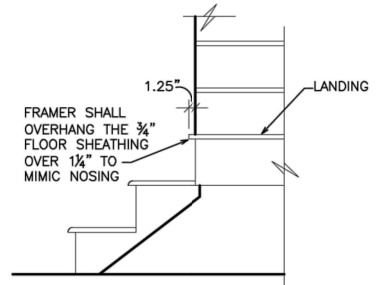
CABINET SOFFIT DETAIL ABOVE VENTED MICROWAVE W/CABINET ABOVE RANGE BUMPED UP & OUT

N.T.S.



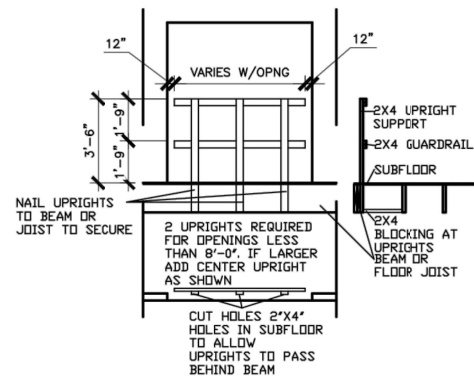
HANDRAIL/POST DETAIL @ STAIRS

N.T.S.



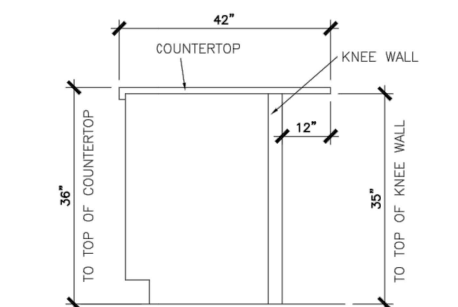
BOX STEP OVERHANG

N.T.S.



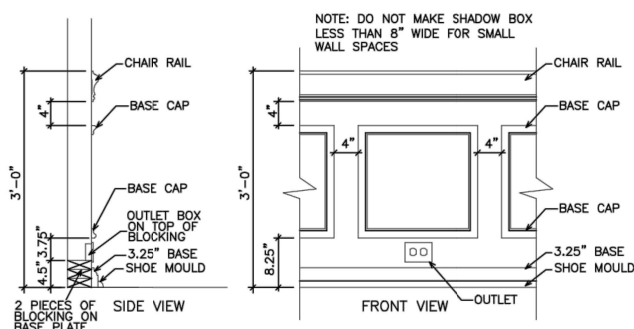
GUARD RAIL DTL. AS REQ'D

N.T.S.



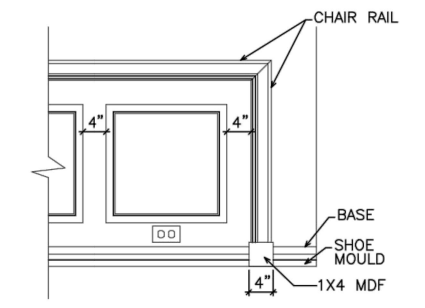
SECTION @ ISLAND KNEEWALL

N.T.S.



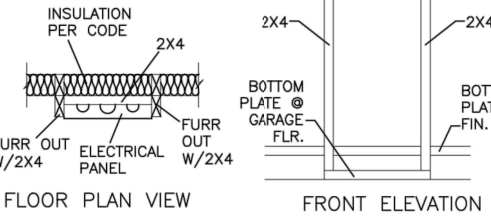
TYPICAL CHAIR RAIL & SHADOW BOX DETAIL

N.T.S.



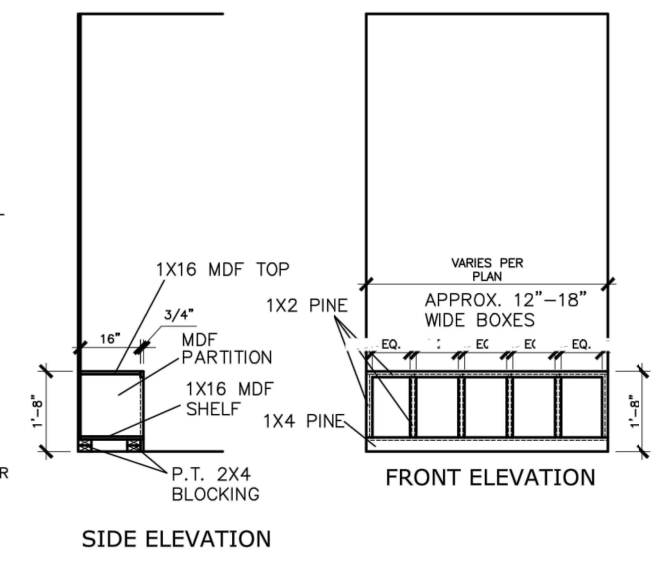
CHAIR RAIL END TRIM DETAIL

N.T.S.



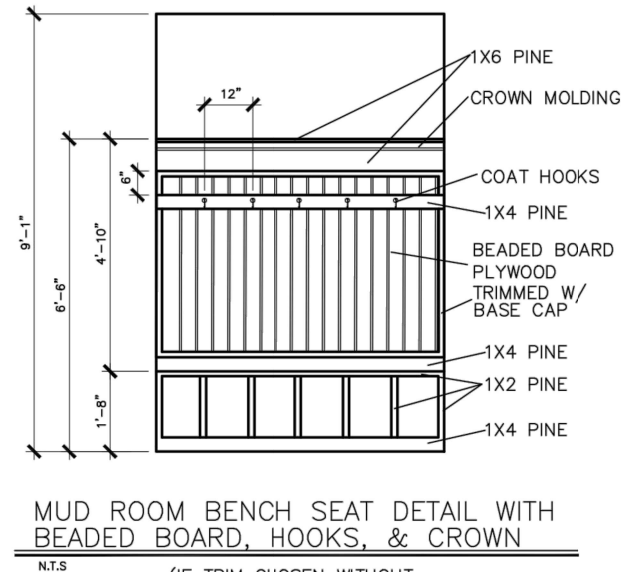
ELECTRICAL PANEL DETAIL

N.T.S.



MUD ROOM BENCH SEAT DETAIL

N.T.S.



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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SMITH DOUGLAS HOMES
QUALITY | INTEGRITY | VALUE

INTERIOR TRIM
DETAILS

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CONNECTION SPECIFICATIONS (TYP. U.N.O.)

Table with 3 columns: DESCRIPTION OF BLDG. ELEMENT, 3"x0.131" NAILS, 3"x0.120" NAILS. Rows include JOIST TO SOLE PLATE, SOLE PL. TO JOIST/RIM OR BLKG STUD TO PLATE, RIM TO TOP PLATE, etc.

* 2 1/2"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. (ONLY ACCEPTABLE WHERE * ARE SHOWN)

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NCBC-RESIDENTIAL CODE & 2018 IRC WITH SOUTH CAROLINA AMENDMENTS.
FOOTING DESIGN - 2,000 PSF NET ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED.
FASTEN 2x4/6 SILL PLATES TO CONC FND WITH A MINIMUM OF 2 ANCHORS PER PLATE...

LATERAL/WALL BRACING & WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: 120MPH WIND IN 2018 NCBC-RC & 120MPH WIND IN 2018 IRC.
THE DESIGN WAS COMPLETED PER 2015 & 2018 IBC SECTION 1604 & ASCE 7, AS PERMITTED BY R301.1.3 OF THE 2018 NCBC-RC & 2018 IRC.

EXT. WALL SHEATHING SPECIFICATION

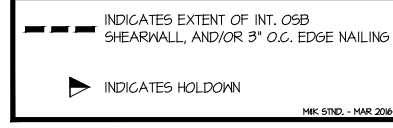
- 7/16" OSB OR 1/2" PLYWOOD: FASTEN SHEATHING W/ 2 3/8"x0.113 NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD.
ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS) AND INSTALLED FULL HEIGHT OF SHEAR WALL...

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.

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.



LEGEND

- RT. INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)
OF. INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. U.N.O.)
F.J. INDICATES 14" DEEP FLOOR I-JOISTS (24" O.C. MAX SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER...

FLOOR FRAMING

- I-JOISTS SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA.
PER THE GUIDELINES OF THE TILE COUNCIL OF NORTH AMERICA (TCNA HANDBOOK), IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO VERIFY THAT THE FINISHES TO BE INSTALLED MATCH THE DESIGN CRITERIA NOTED ABOVE...

ROOF FRAMING

- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE 1 (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS - W/ 2 3/8" x 0.131" NAILS @ 6" O.C.
WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIPPS FASTEN ROOF SHEATHING FIELDS PER EDGE NAILING SPEC.

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION...

GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NCBC-RESIDENTIAL CODE & 2018 IRC WITH SOUTH CAROLINA AMENDMENTS.
DESIGN LOADS: ROOF LIVE = 20 PSF, DEAD = 7 PSF T.C., 10 PSF B.G.
FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS), DEAD = 10 PSF (I-JOISTS)

GENERAL FRAMING

- ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE (IRC TABLE R602.3(1)) OR ON PLANS.
ALL INTERIOR BEARING WALLS ARE ASSUMED TO BE SHEATHED W/ GYP WALL BOARD (ONE SIDE MIN.) OR PROVIDE MID HT. BLOCKING.
ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SP) LUMBER...

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSSES AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE 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 MK FOR REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.

VENEER LINTEL SCHEDULE

Table with 3 columns: SPAN (MAX), HEIGHT OF VENEER ABOVE LINTEL, STEEL ANGLE SIZE. Rows include 3'-0", 6'-0", 8'-0", 9'-6".

ALL LINTELS - SHALL SUPPORT 2 3/4" - 3 1/2" VENEER W/ 40 psf MAXIMUM HEIGHT.
* FOR GREEN VENEER USE L4x3x1/2".

Duncans Lot 42

GENERAL STRUCTURAL NOTES
AVONDALE MODEL
SMITH DOUGLAS HOMES
120 MPH WIND ZONE
NORTH CAROLINA

sheet:
SO.0

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 RESIDENTIAL STRUCTURAL ENGINEERING
 3025 Bismarck Park Way, Suite 105 - Alpharetta, GA 30022
 770-777-8974 - mulhern@mulhernkulp.com
 NC License # C-3825

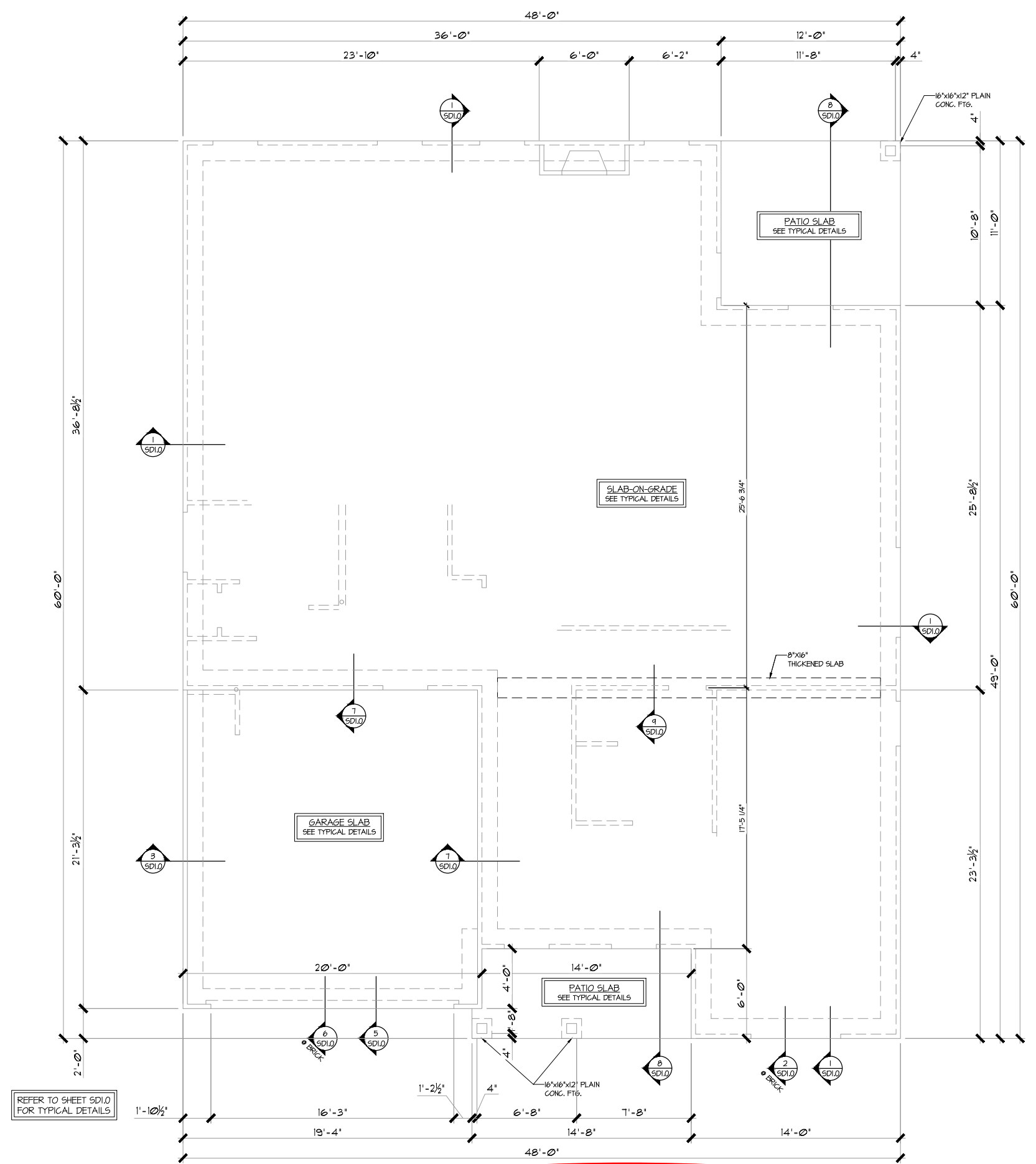
Mulhern+Kulp project number:
 256-21001
 project mgr: SMK
 drawn by: MJF
 issue date: 07-25-2023

REVISIONS:
 date: initial:

SMITH DOUGLAS
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**Duncans
 Lot 42**

REFER TO S0.0 FOR TYPICAL
 STRUCTURAL NOTES & SCHEDULES



REFER TO SHEET SD1.0
 FOR TYPICAL DETAILS

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

LEGEND	
	INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. UNO.)
	INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. UNO.)
	INDICATES 14" DEEP FLOOR I-JOISTS (24" O.C. MAX SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER
	INDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX)
	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.

MONO-SLAB FOUNDATION
 AVONDALE MODEL
 120 MPH WIND ZONE
 NORTH CAROLINA

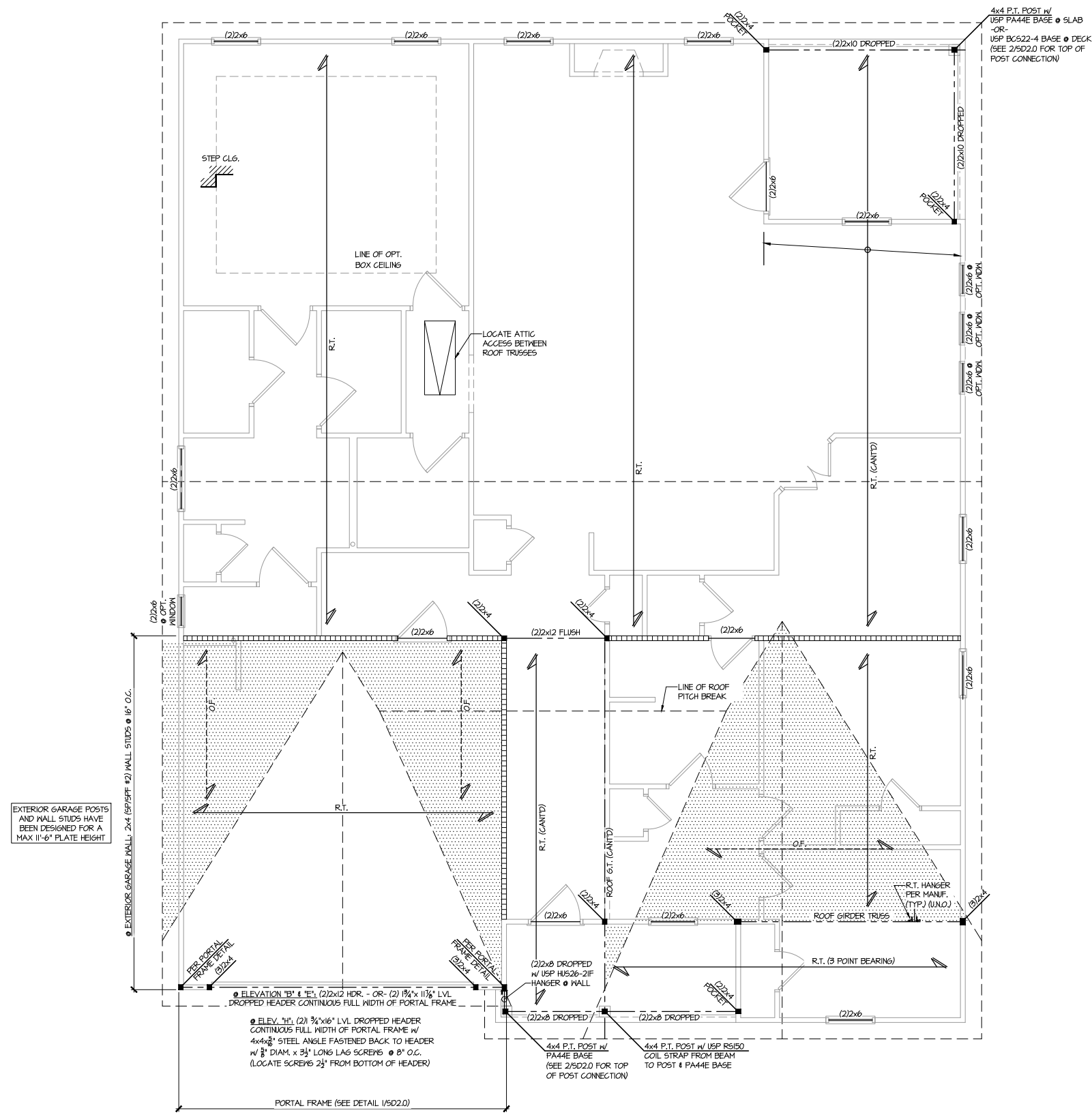
sheet:
S1.0M

Mulhern+Kulp project number:	256-21001
project mgr:	SMK
drawn by:	MJF
issue date:	07-25-2023
REVISIONS:	
date:	initial:

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**Duncans
 Lot 42**

REFER TO S0.0 FOR TYPICAL
 STRUCTURAL NOTES & SCHEDULES



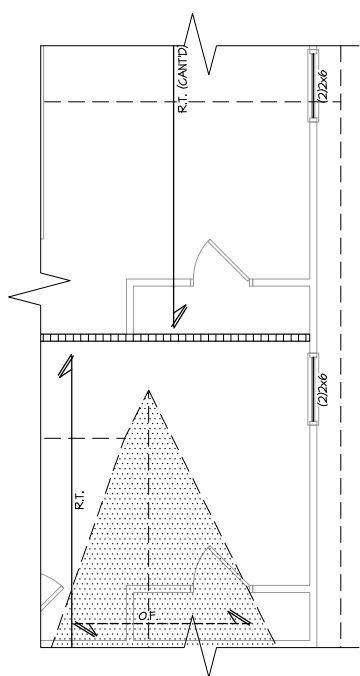
EXTERIOR GARAGE POSTS
 AND WALL STUDS HAVE
 BEEN DESIGNED FOR A
 MAX 11'-6" PLATE HEIGHT

LEGEND	
	INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. UNO.)
	INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. UNO.)
	INDICATES 14" DEEP FLOOR I-JOISTS (24" O.C. MAX SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER
	INDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX)
	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.

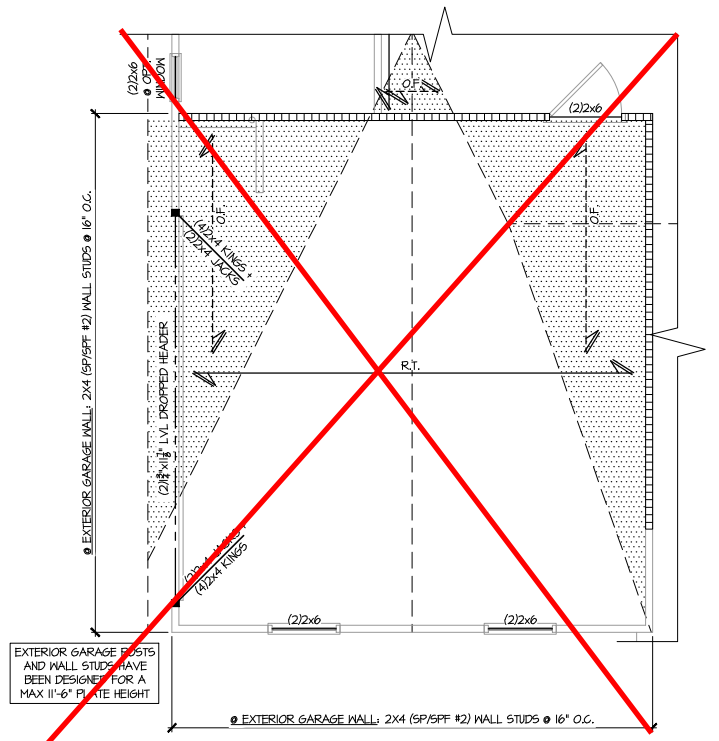
ROOF FRAMING PLAN (ELEV. "B") (ELEV. "E" & "H" SIM.)
 SCALE: 1/4"=1'-0" ON 22x34
 1/8"=1'-0" ON 11x17

ROOF FRAMING PLAN
 AVONDALE MODEL
 120 MPH WIND ZONE
 NORTH CAROLINA

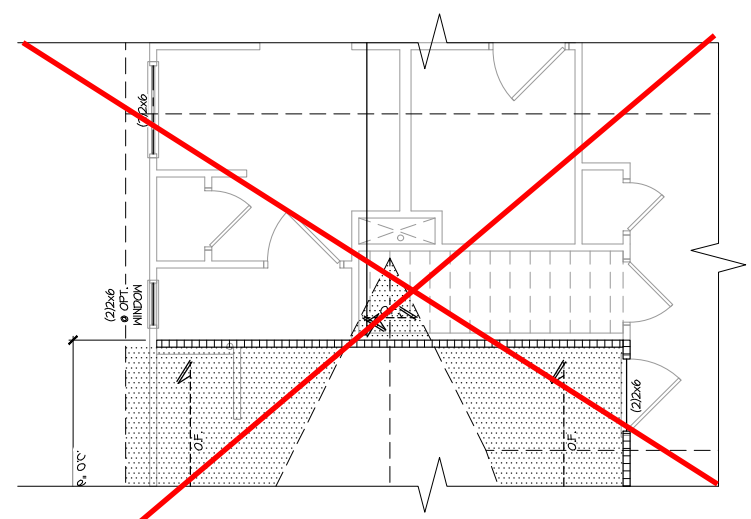
sheet:
S3.1M



1 **OPTIONAL BEDROOM 4 / LO STUDY**
PARTIAL ROOF FRAMING PLAN (ALL ELEVS. SIM.)
 SCALE: 1/4"=1'-0" ON 22x34
 1/8"=1'-0" ON 11x17
 ELEVATION "A" SHOWN



2 **OPTIONAL SIDE ENTRY GARAGE**
PARTIAL ROOF FRAMING PLAN (ALL ELEVS. SIM.)
 SCALE: 1/4"=1'-0" ON 22x34
 1/8"=1'-0" ON 11x17
 ELEVATION "A" SHOWN

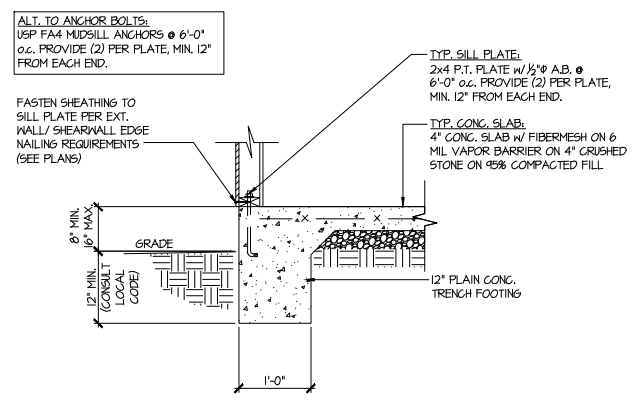


3 **OPTIONAL BASEMENT STAIR**
PARTIAL ROOF FRAMING PLAN (ALL ELEVS. SIM.)
 SCALE: 1/4"=1'-0" ON 22x34
 1/8"=1'-0" ON 11x17
 ELEVATION "A" SHOWN

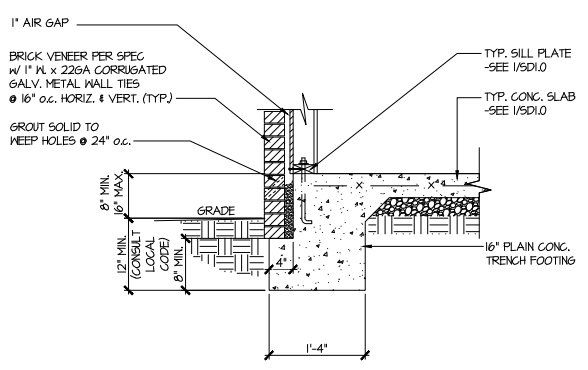
**Duncans
 Lot 42**

REFER TO S0.0 FOR TYPICAL
 STRUCTURAL NOTES & SCHEDULES

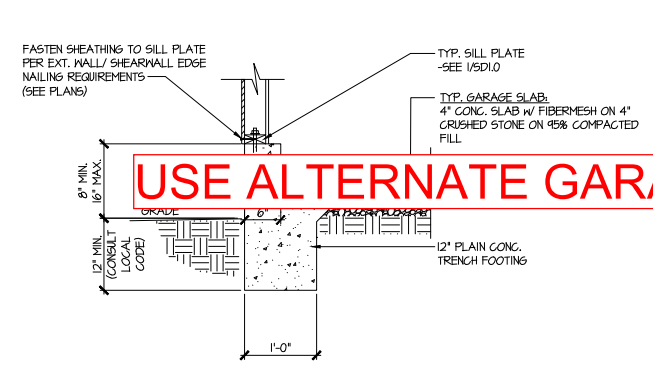
LEGEND	
	INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. UNO.)
	INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. UNO.)
	INDICATES 14" DEEP FLOOR I-JOISTS (24" O.C. MAX SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER
	INDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX)
	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.



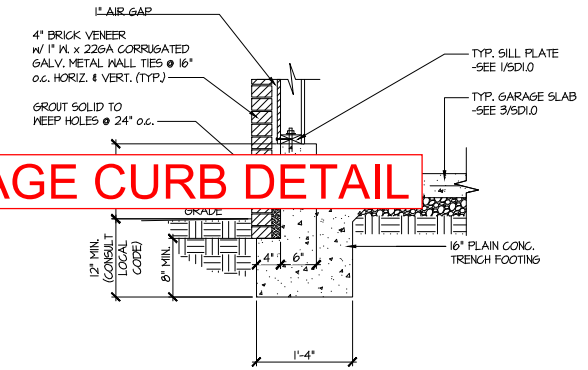
1 TYPICAL SLAB ON GRADE PERIMETER FOOTING



2 TYPICAL SLAB ON GRADE PERIMETER FOOTING w/ BRICK VENEER

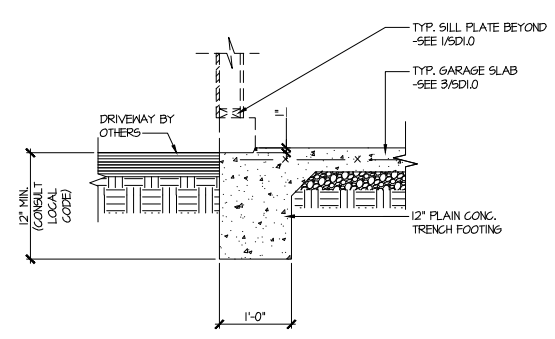


3 TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

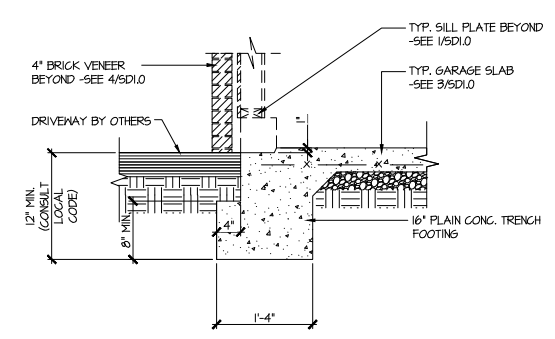


4 TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING w/ BRICK VENEER

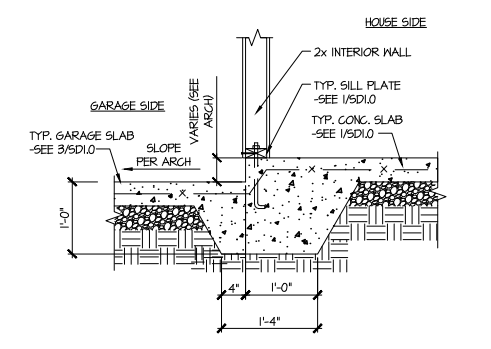
USE ALTERNATE GARAGE CURB DETAIL



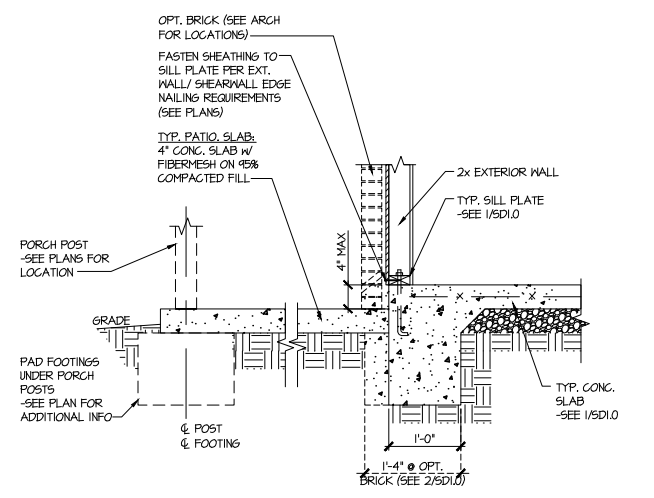
5 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING



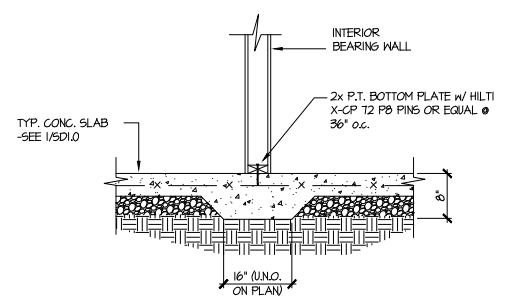
6 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING w/ BRICK VENEER



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
 3025 Bessie Coleman Blvd., Suite 105 - Alpharetta, GA 30022
 770-777-8974 - mulhern+kulp.com
 NC License # C-3825

Mulhern+Kulp project number:
 256-21001
 project mgr: SMK
 drawn by: MJF
 issue date: 07-25-2023

REVISIONS:
 date: initial:

SMITH DOUGLAS
 HOMES

FOUNDATION DETAILS
 AVONDALE MODEL
 120 MPH WIND ZONE
 NORTH CAROLINA

Duncans
 Lot 42

sheet:
SD1.0



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

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

August 18, 2023

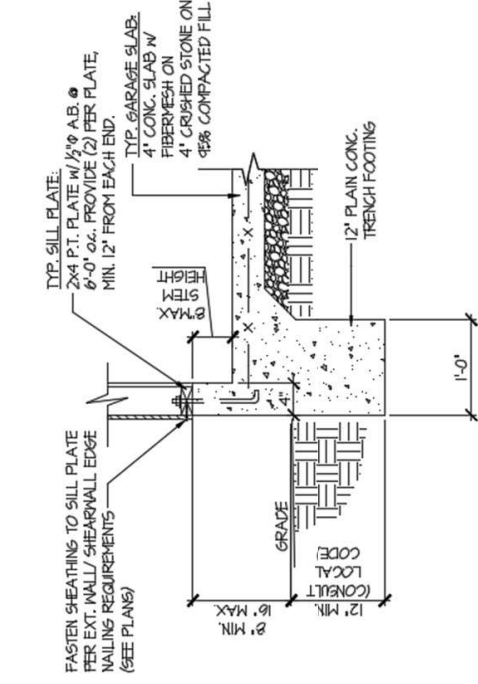
Jody Hunt
Director of Product Development
SMITH DOUGLAS HOMES
110 Village Trail, Suite 215
Woodstock, GA 30188

ALTERNATE GARAGE CURB DETAIL
Smith Douglas Homes

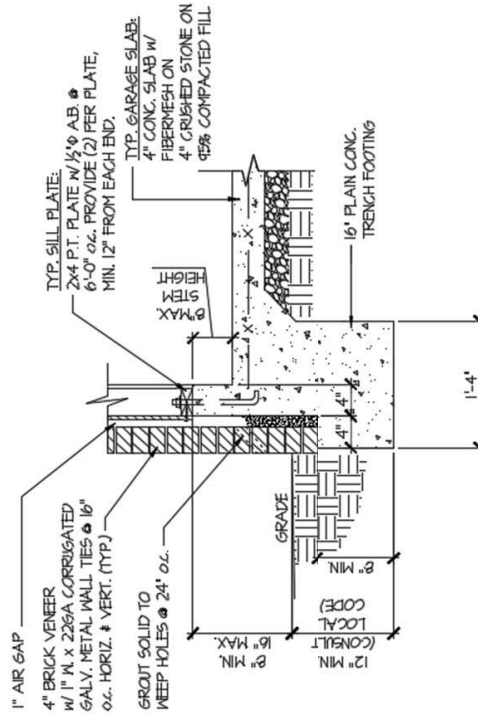
Reference
Current Structural Plans prepared by Mulhern & Kulp

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.



(A) TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING



(B) TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

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

Mulhern+Kulp project number:
256-21001

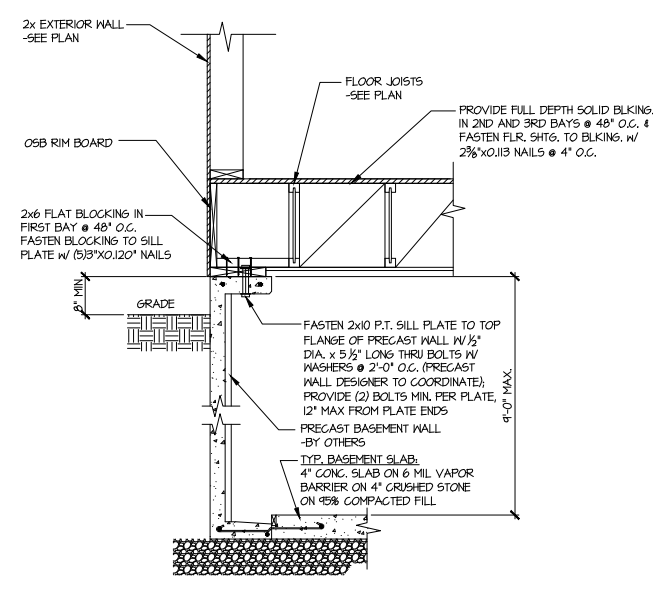
project mgr: **SMK**
 drawn by: **MJF**
 issue date: **07-25-2023**

REVISIONS:

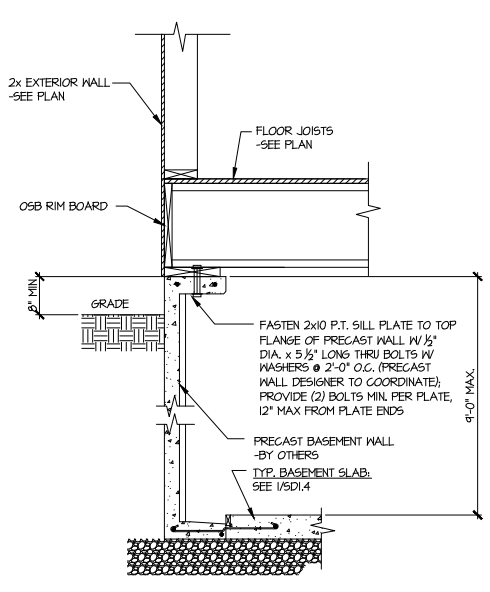
date:	initial:

SMITH DOUGLAS
 HOMES

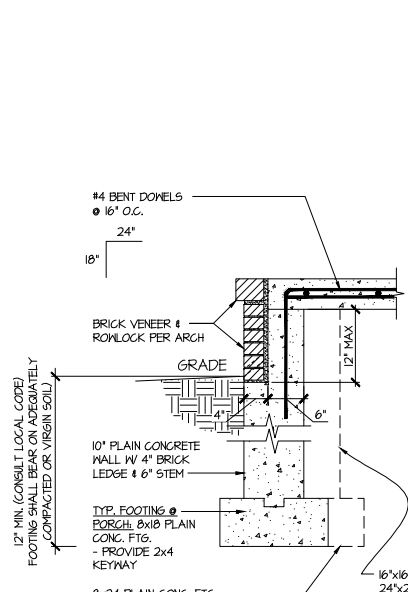
FOUNDATION DETAILS
AVONDALE MODEL
 120 MPH WIND ZONE
 NORTH CAROLINA



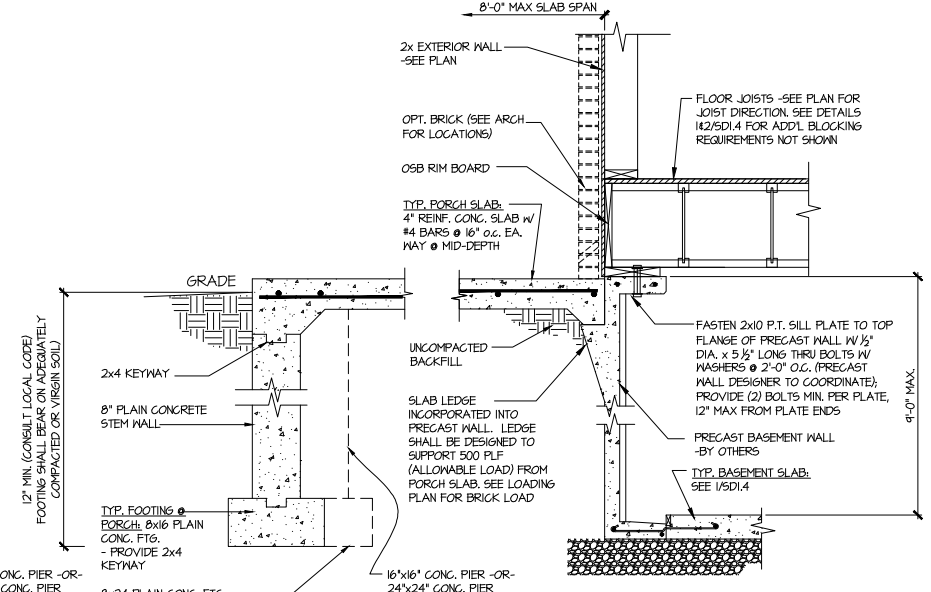
1 SECTION
 SCALE: 3/4"=1'-0"



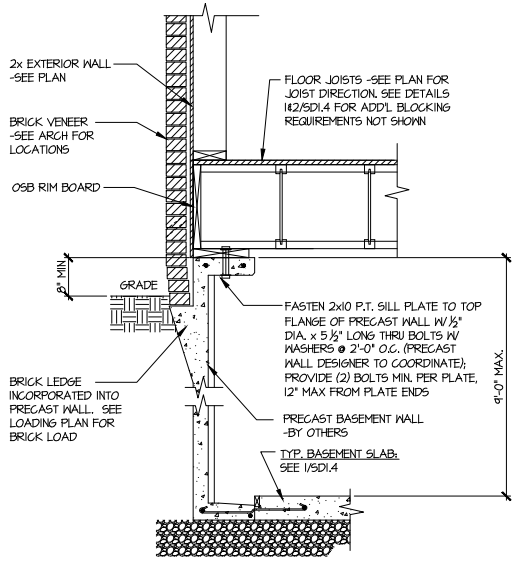
1A SECTION
 SCALE: 3/4"=1'-0"



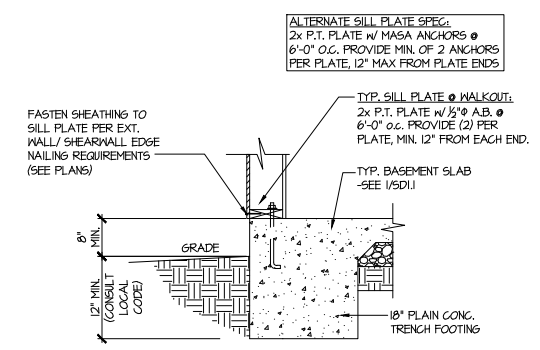
3 SECTION
 SCALE: 3/4"=1'-0"



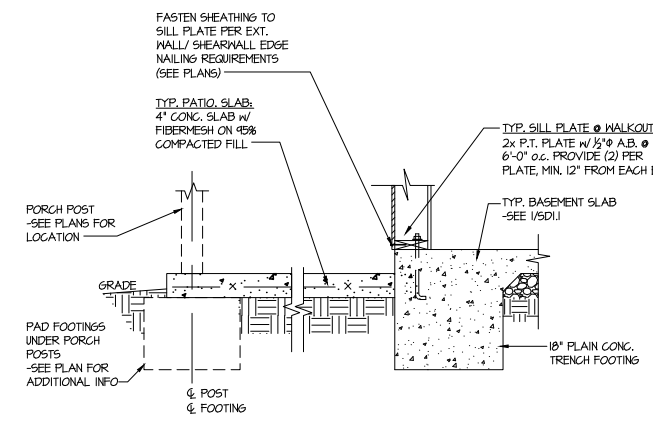
3 SECTION
 SCALE: 3/4"=1'-0"



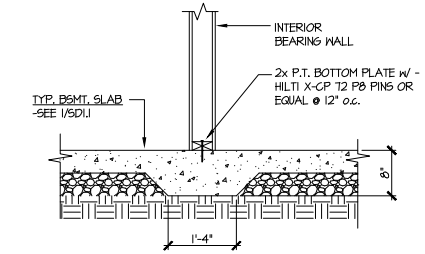
2 SECTION
 SCALE: 3/4"=1'-0"



4 TYPICAL BASEMENT FOUNDATION @ WALKOUT

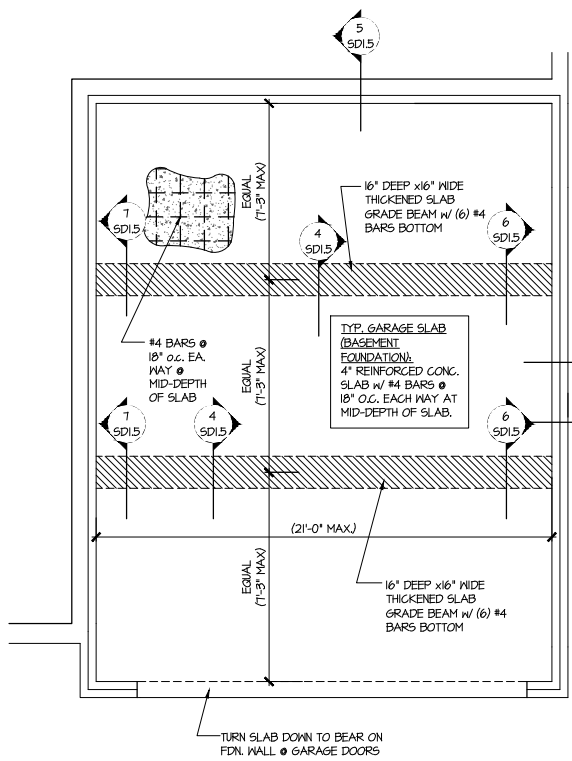


5 TYPICAL BASEMENT FOUNDATION @ WALKOUT



6 TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL

Duncans
 Lot 42



1 GENERIC FOUNDATION PLAN KEY @ GARAGE
 SCALE: 1/4"=1'-0"

ALT. TO BOLTS:
 USP #4 MIDSILL ANCHORS @ 6'-0"
 o.c. OR EQUIVALENT. PROVIDE (2)
 PER PLATE, MIN. 12" FROM EACH END.

4" STRICKT. GARAGE SLAB
 -SEE DETAIL 1/SD1.5

PRECAST WALL SHALL BE
 DESIGNED TO SUPPORT 400 PLF
 (ALLOWABLE LOAD) FROM
 GARAGE SLAB. SEE LOADING
 PLAN FOR ADDITIONAL LOADING
 FROM FRAMING LEVEL.

PRECAST FOUNDATION WALL BY
 OTHERS

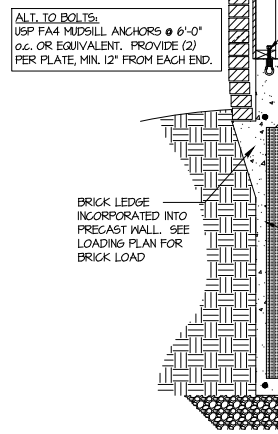
CRUSHED STONE PER PRECAST
 WALL DESIGNER

2 SD1.5 @ NON-BRICK
 3 SD1.5 @ BRICK

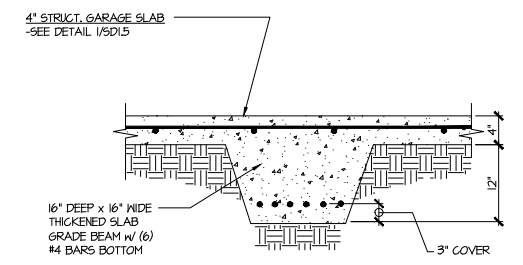
SLAB THICKNESS
 SHOWN IS MIN.
 THICKNESS REQ'D -
 SLOPE OF SLAB SHALL
 NOT COMPROMISE MIN.
 THICKNESS

SEE ARCHITECTURAL
 PLANS FOR ACTUAL
 GARAGE DIMENSIONS

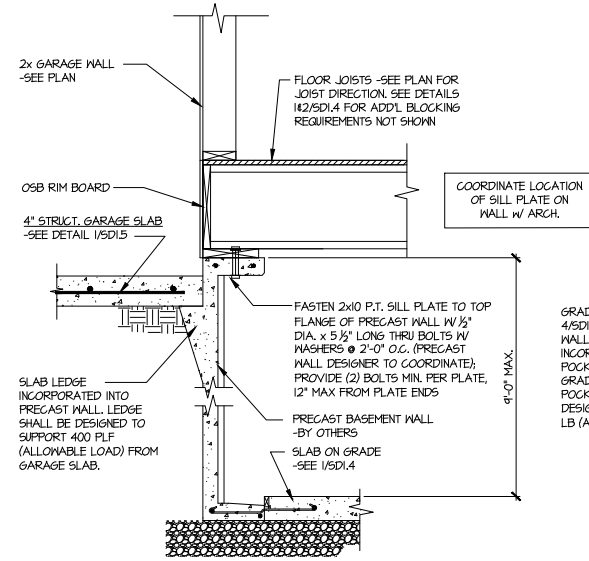
2 TYPICAL PERIMETER FOOTING @
 GARAGE - BASEMENT FOUNDATION



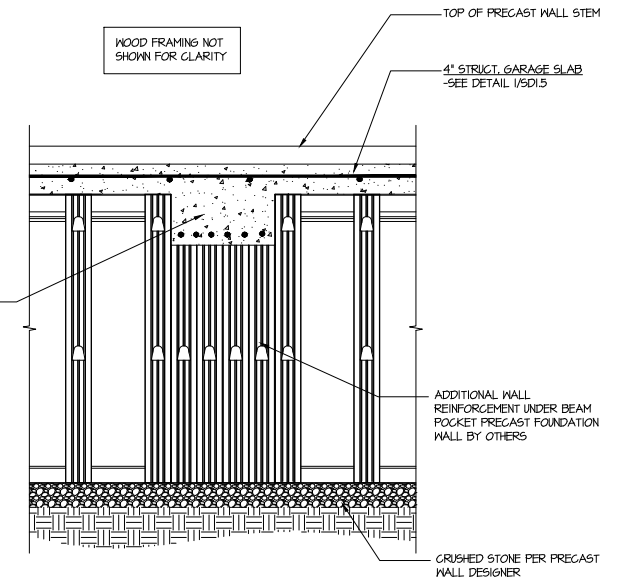
3 TYPICAL PERIMETER FOOTING @
 GARAGE - BASEMENT FOUNDATION (BRICK)



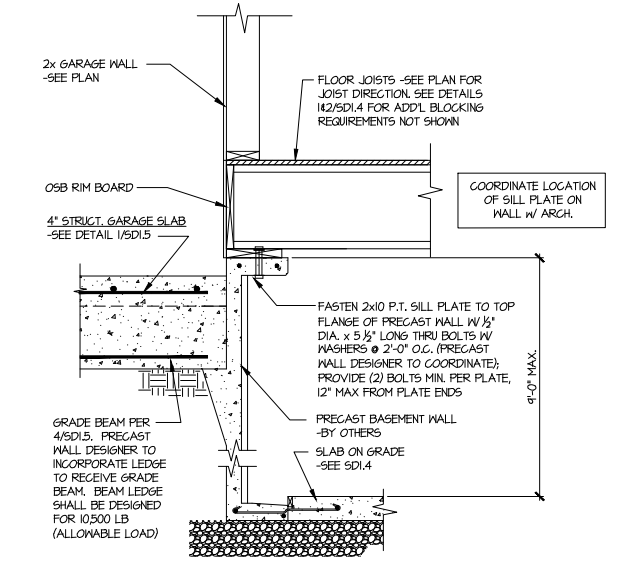
4 TYPICAL CONCRETE GRADE BEAM @ GARAGE FDN.
 SCALE: 3/4"=1'-0"



5 CONCRETE BSMT. FDN. WALL @
 GARAGE

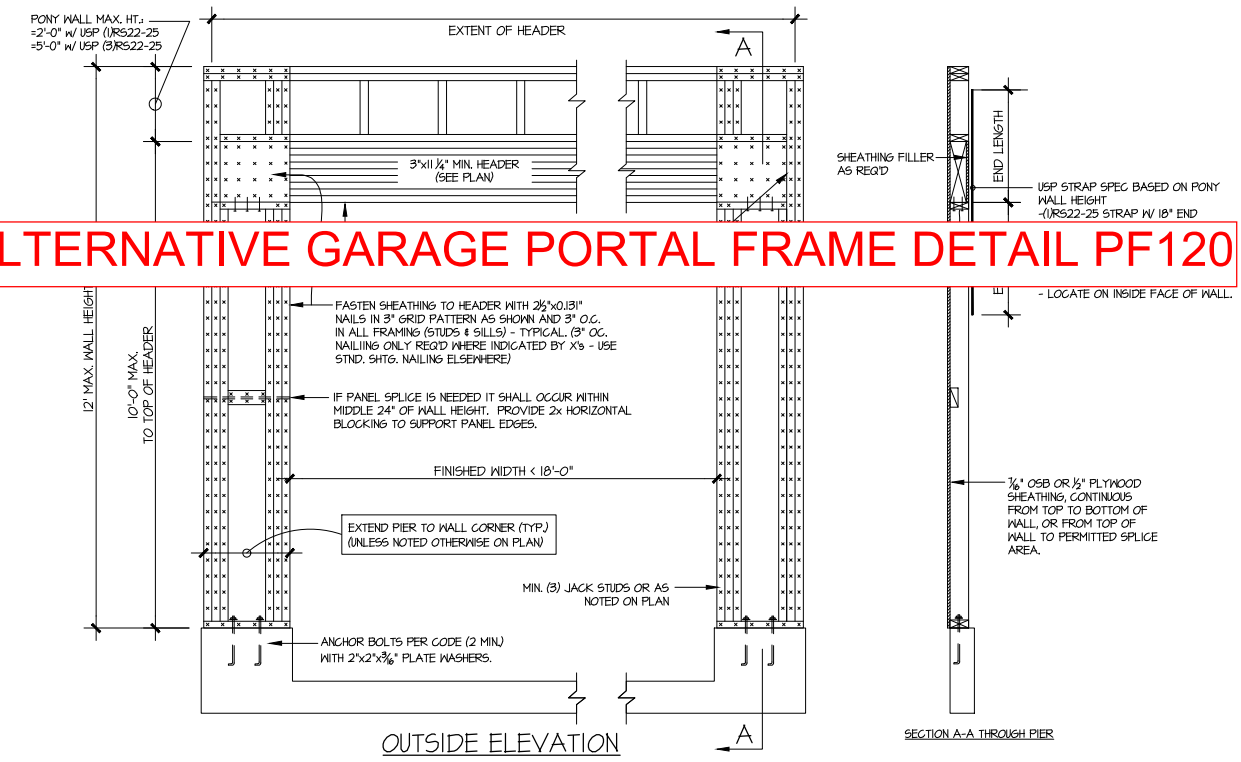


6 SECTION
 SCALE: 3/4"=1'-0"

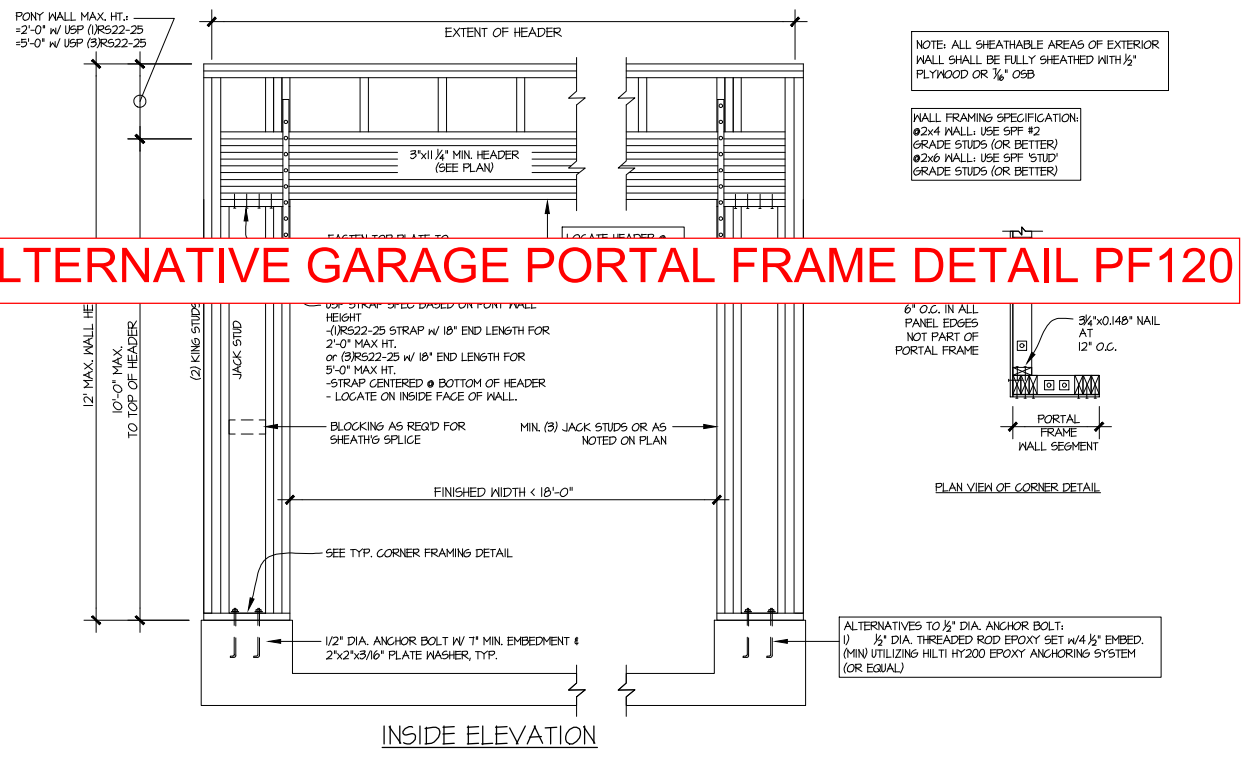
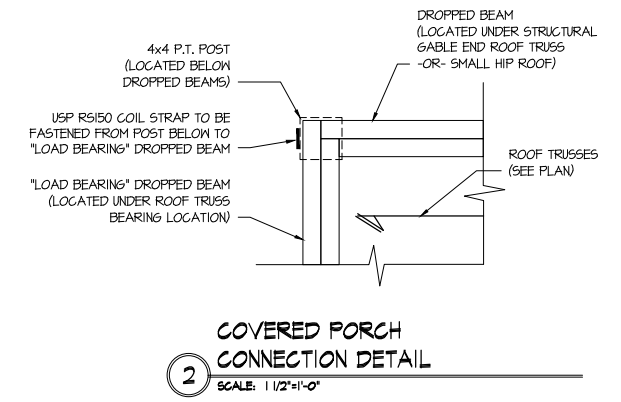


7 SECTION
 SCALE: 3/4"=1'-0"

Duncans
 Lot 42



USE ALTERNATIVE GARAGE PORTAL FRAME DETAIL PF120



USE ALTERNATIVE GARAGE PORTAL FRAME DETAIL PF120

GARAGE PORTAL FRAME BRACING ELEVATION
 SCALE: N.T.S. BOTH SIDES OF GARAGE DOOR 120 MPH WIND SPEED (ULT)

MULHERN+KULP
 RESIDENTIAL STRUCTURAL ENGINEERING
 3025 Blandville Park (WV) - Suite 105 - Alhambra, GA 30002
 478-777-8974 - mulhern+kulp.com
 NC License # C-3825

Mulhern+Kulp project number:
 256-21001

project mgr: SMK
 drawn by: MJF
 issue date: 07-25-2023

REVISIONS:
 date: initial:

SMITH DOUGLAS
 HOMES

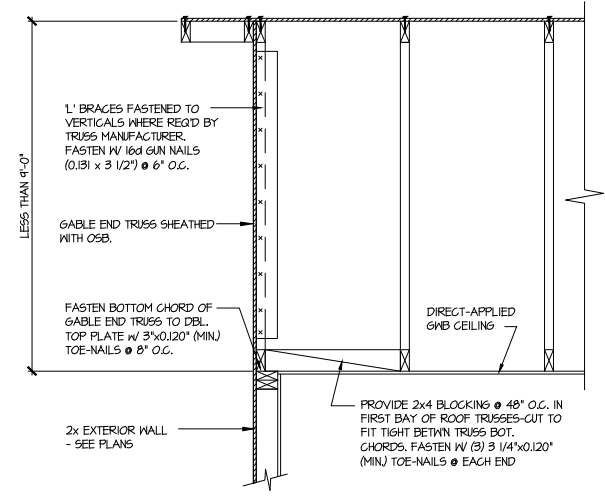
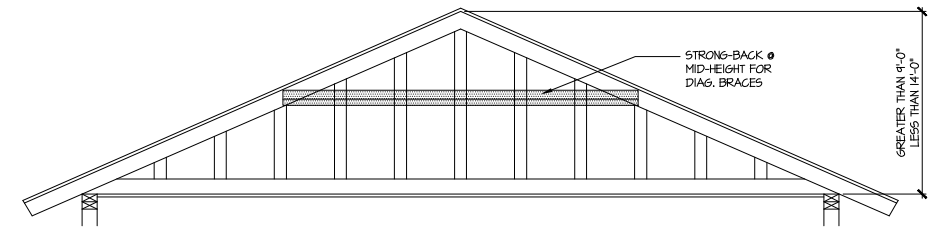
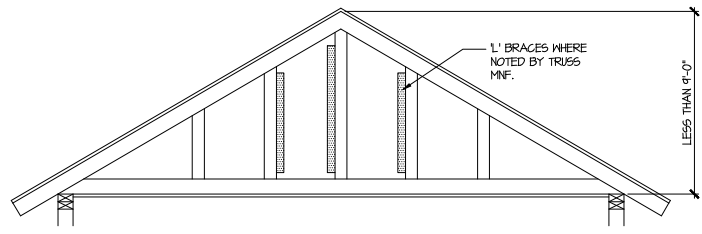
FRAMING DETAILS

AVONDALE MODEL

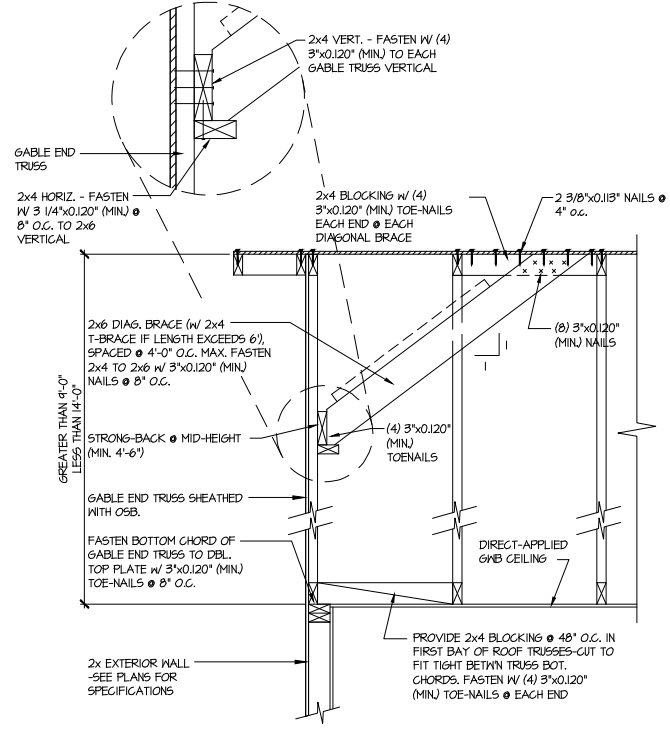
120 MPH WIND ZONE
 NORTH CAROLINA

Duncans
 Lot 42

sheet:
SD2.0



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



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 IS LESS THAN 9'-0". 1" BRACES REQUIRED WHERE NOTED BY TRUSS MANUFACTURER.

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.



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.

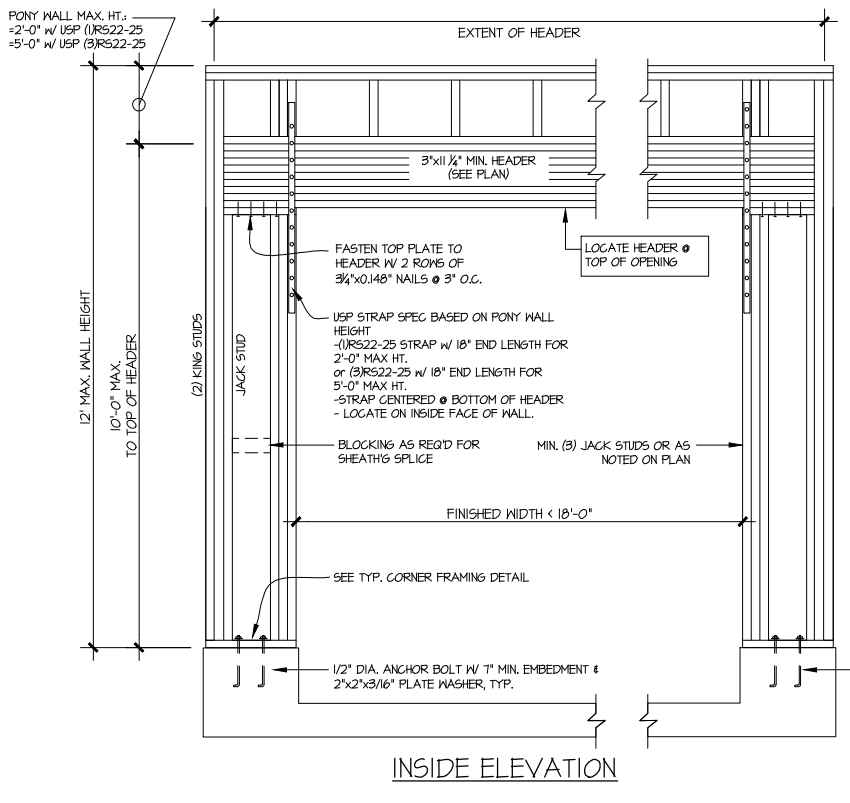
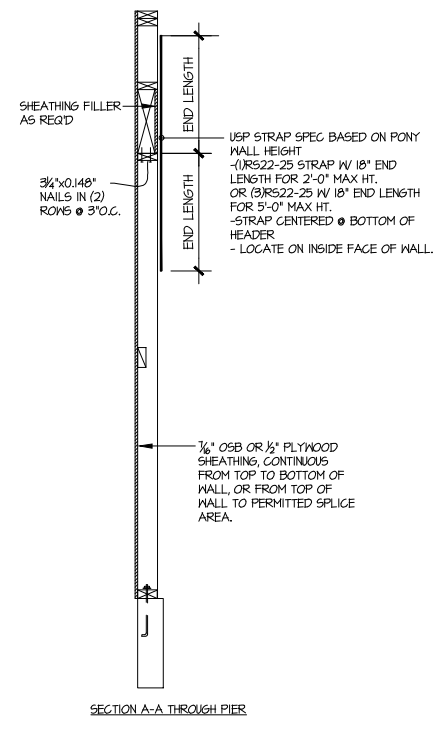
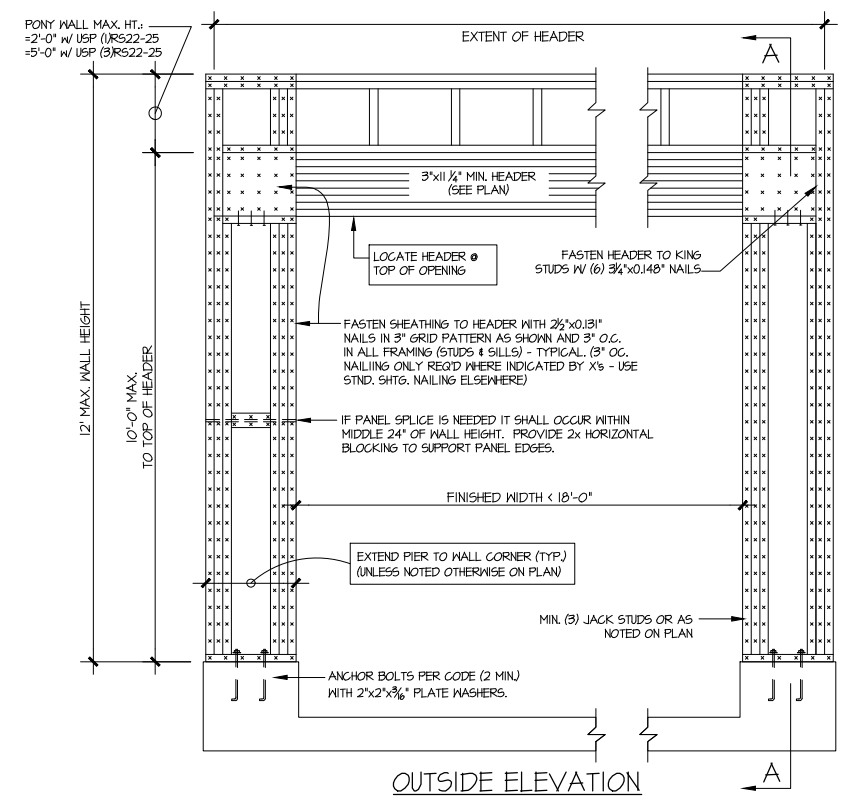
Respectfully,

MULHERN & KULP STRUCTURAL ENGINEERING, INC.

NC License # C-3825

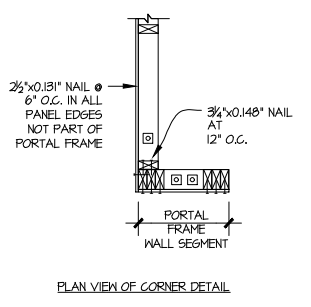
Shaun M. Kreidel, P.E. Project Manager + Atlanta Office Director

Signature + Seal 07/28/2023



NOTE: ALL SHEATHABLE AREAS OF EXTERIOR WALL SHALL BE FULLY SHEATHED WITH 1/2" PLYWOOD OR 3/4" OSB

WALL FRAMING SPECIFICATION:
2x4 WALL: USE SFF #2 GRADE STUDS (OR BETTER)
2x6 WALL: USE SFF #1UD GRADE STUDS (OR BETTER)



ALTERNATIVES TO 1/2" DIA. ANCHOR BOLT:
1) 1/2" DIA. THREADED ROD EPOXY SET w/ 1/2" EMBED. (MINU 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)

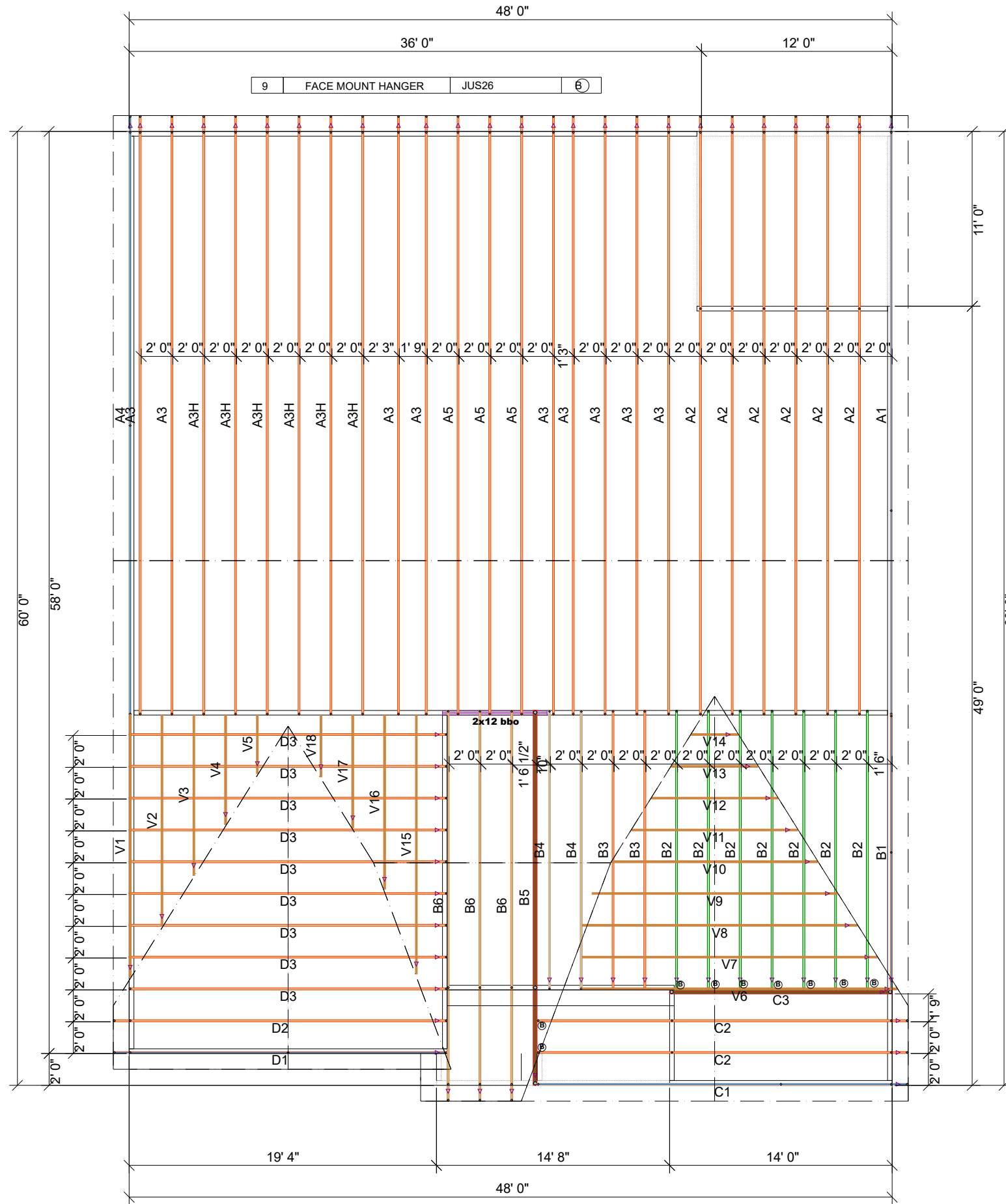
Duncans
Lot 42

72400151 42 DUNCANS CROSSING

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 (TDDs) 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.sbccomponents.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

THESE VALUES ARE APPROXIMATE ONLY	
ROOF AREA	3383.72 sq ft
RIDGE LINE	97.07 ft
VALLEY LINES	100.92 ft
HIP LINES	0 ft



REVISIONS	DESCRIPTION	DSN
DATE		

DESIGNER JNN
 LAYOUT DATE 7/22/22
 ARCH DATE -
 STRUC DATE -
 JOB #: MASTER

AVONDALE BEH

SD RALEIGH

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