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# ADDITION @: 1776 LITCHFIELD RD SW SNELLVILLE, GA 30078

## RELEASED FOR CONSTRUCTION

**GENERAL NOTES:**  
THE INFORMATION SHOWN IN THESE DRAWINGS IS BASED ON ACTUAL FIELD MEASUREMENTS AND OTHER INFORMATION OF RECORD. ALL WORK DESCRIBED IN THESE PLANS SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE FOLLOWING CONSTRUCTION CODES.  
  
THE GEORGIA STATE MINIMUM CODES:  
INTERNATIONAL BUILDING CODE - 2018 EDITION WITH GEORGIA STATE AMENDMENTS  
  
INTERNATIONAL MECHANICAL CODE - 2018 EDITION WITH GEORGIA STATE AMENDMENTS  
INTERNATIONAL PLUMBING CODE - 2018 EDITION WITH GEORGIA STATE AMENDMENTS AND IPC APPENDIX F  
  
INTERNATIONAL FUEL GAS CODE - 2018 EDITION WITH GEORGIA STATE AMENDMENTS  
  
2020 NATIONAL ELECTRICAL CODE (NEC)  
  
INTERNATIONAL ENERGY CONSERVATION CODE - 2015 EDITION WITH GEORGIA STATE AMENDMENTS  
  
INTERNATIONAL RESIDENTIAL CODE FOR ONE & TWO FAMILY DWELLINGS, 2018 EDITION WITH GEORGIA STATE AMENDMENTS, AND IRC APPENDIX F  
  
INTERNATIONAL FIRE PREVENTION CODE - 2018 EDITION WITH AMENDMENTS  
  
THE GEORGIA EROSION AND SEDIMENTATION ACT OF 1975, THIRD EDITION 1992  
  
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 2018 EDITION USED BY GA DCA  
  
COGA TITLE 25 AND 30 AND CHAPTER 120 OF THE FIRE COMMISSIONER'S RULES AND REGULATIONS  
  
THIS PLAN HAS BEEN PREPARED TO MEET PROFESSIONAL STANDARDS AND PRACTICES. HOWEVER, BUILDING CODE REQUIREMENTS VARY WITH LOCATION AND CHANGE FROM TIME TO TIME. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR MUST REVIEW AND BE RESPONSIBLE FOR ALL DIMENSIONS AND OTHER DETAILS AND SHOULD REVIEW PLANS TO INSURE THEY MEET CURRENT REQUIREMENTS. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY TO VERIFY THE CONDITIONS, DIMENSIONS, AND STRUCTURAL DETAILS OF THE BUILDING, AND ASSUMES FULL LIABILITY FOR ANY PROBLEMS THAT MAY ARISE DUE TO POSSIBLE ERRORS ON THESE PLANS. ALL FEDERAL, STATE AND LOCAL CODES, ORDINANCES, REGULATIONS, ETC. SHALL BE CONSIDERED AS PART OF SPECIFICATIONS FOR THIS BUILDING AND SHALL TAKE PRECEDENCE OVER ANYTHING SHOWN, DESCRIBED OR IMPLIED WHERE SAME ARE AT VARIANCE. USE OF THESE PLANS CONSTITUTES COMPLIANCE WITH THE ABOVE TERMS.  
THESE PLANS HAVE BEEN GENERATED FOR THE CLIENTS LISTED IN THE PROJECT NAME AND ARE NOT TO BE USED, REPRODUCED, COPIED, OR DISTRIBUTED FOR ANY OTHER PROJECT WITHOUT WRITTEN PERMISSION FROM STUDIO TEN DESIGNS.

- ALL MEANS AND METHODS OF CONSTRUCTION SHALL CONFORM TO CODES, LAWS, AND REGULATIONS OF GWINNETT COUNTY, INCLUDING BUT NOT LIMITED TO FLUES, CHIMNEY, FIREPLACE, SMOKE DETECTOR, MASONRY, WOOD CONSTRUCTION, ROOFING, PLUMBING, ELECTRICAL WIRING, EXHAUST FANS, VENTING, MECHANICAL EQUIPMENT, AND DUCTWORK, ETC., AND SUCH CODES, LAWS, AND REGULATIONS SHALL GOVERN OVER ANY CONFLICTING INFORMATION INDICATED ON THE CONSTRUCTION DOCUMENTS.
- THE DESIGNER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK, FOR ACTS OR OMISSIONS OF THE CONTRACTORS, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND / OR IN ACCORDANCE WITH LOCAL CODES, RESTRICTIONS, AND REQUIREMENTS.
- EACH NOTE ON ANY PAGE SHALL BE CONSIDERED AS ONE AND CONSISTENT FOR ALL PAGES.
- ALL PLAN DIMENSIONS ARE TO FACE OF FINISH PARTITIONS UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS GOVERN OVER SCALE
- CONTRACTOR TO CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS IN FIELD PRIOR TO CONSTRUCTION - NOTIFY DESIGNER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION
- EACH BEDROOM SHALL HAVE AT LEAST ONE WINDOW WHOSE CLEAR OPENING IS A MINIMUM OF 5.7 SQ. FT. THE MINIMUM CLEAR WIDTH SHALL BE 20" AND MINIMUM CLEAR HEIGHT SHALL BE 24". GRADE FLOOR BEDROOM WINDOWS MAY HAVE A MINIMUM 5.0 SQ FT CLEAR OPENING

**FOUNDATION WALLS:**

- POURED CONCRETE FOUNDATION &/OR CMU WALLS SHALL BE MIN. NOMINAL 8" THICK AND STEEL REINFORCED AS NOTED ON DETAIL SECTIONS AND AS REQUIRED BY STATE, COUNTY, AND LOCAL CODES AND RESTRICTIONS.
- CONCRETE WALLS SHALL BE INSPECTED BY LICENSED ENGINEER OR ARCHITECT PRIOR TO POURING.
- WATERPROOFING ON CONC. WALLS MUST CONFORM TO LOCAL CODE REQUIREMENTS.
- USE 1/2" DIA. MIN. GALV. ANCHOR BOLTS OR STRAPS TO SECURE SILL PLATES 6'-0" O.C. AND A MAX. 12" FROM CORNERS. PROVIDE FOAM SILT SEAL BETWEEN TOP OF FOUNDATION WALL AND SILL PLATE
- ALL PENETRATIONS THROUGH FOUNDATION WALLS MUST BE SEALED GAS TIGHT.
- PROVIDE FREE DRAINING GRANULAR BACKFILL WITH A MAX. EQUIV. FLUID PRESSURE OF 30 LBS PER SQ. FT. PER FOOT OF BACKFILL AGAINST FOUNDATION WALLS

**ROOFING AND MOISTURE PROTECTION:**

- ALL METAL & SHINGLE ROOFING SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND ACCORDING TO THE GUIDELINES ESTABLISHED FOR CERTIFIED MFGRS 20 YEAR NO DOLLAR LIMIT (NDL) WARRANTY.
- PROVIDE METAL DRIP CAP AT STARTER COURSES ABOVE GUTTERS
- PROVIDE FLASHING AT ALL DOORS, WINDOWS AND OTHER OPENINGS AND AS NECESSARY AND AS PER CODE TO PREVENT MOISTURE PENETRATION.
- METAL FLASHING, COUNTER FLASHING, AND COPING SHALL BE MIN #26 GAUGE NON CORROSIVE METAL AND SHALL BE USED AT ALL STEPS, VALLEYS, AND COUNTERS
- MECHANICAL/PLUMBING ELECTRICAL CONTRACTORS SHALL BE REQUIRED TO SEAL ALL HORIZONTAL & VERTICAL PENETRATIONS IN THE EXTERIOR WALL CAUSED BY THEIR TRADE
- GENERAL CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROVIDE NECESSARY STRUCTURAL, MECHANICAL ELECTRICAL AND PLUMBING SLEEVES, ANCHORS, VENT OPENINGS ETC., THAT MIGHT BE REQUIRED.

**FRAMING:**

- ALL WALL PLATES IN CONTACT W/ MASONRY OR CONC. SURFACE SHALL BE PRESSURE TREATED.
- ALL STUDS TO BE 2X4 OR 2X6 STUD GRADE SPF WITH ½" CDX PLYWOOD EXTERIOR SHEATHING OR EQUAL.
- ALL JOISTS AND RAFTERS TO BE SPRUCE/PINE/FIR #2 AND BETTER. ROOF SHEATHING TO BE ½" THK. C.D.X. ALL FLOOR SHEATHING TO BE 3/4" T & G D.C.X. EXCEPT AREAS TO RECEIVE HARDWOOD FLOORING TO BE 1/2" C.D.X. PLYWOOD SUBFLOOR. ALL PLYWOOD SUBFLOOR TO BE GLUED TO JOISTS WITH APPROVED CONSTRUCTION ADHESIVE AND NAILED PER BLDG CODE.
- MANUFACTURED TRUSS JOIST SHALL BE INSTALLED IN ACCORDANCE WITH ALL MANUFACTURERS SPECS. TRUSS JOIST SHALL BE TRUSS JOIST MAXIMUM LIFT/PRO 250 OR TJI PRO 350 OR EQUAL WITH RIM JOIST AS PER MFGR. SPECS. PROVIDE APPROVED CRUSH BLOCKS AT ALL POINT LOADS AND ALL BEARING POINTS AS RECOMMENDED BY MANUFACTURER

- PRECAST CONC. & LAMINATED WD BEAMS AND COLUMNS TO BE BUILT AND INSTALLED IN ACCORDANCE W/ ALL MANUFACTURERS SPECIFICATIONS AND AS REQUIRED BY LOCAL CODES, RESTRICTIONS, AND REGULATIONS.
- PROVIDE APPROVED JOIST HANGERS AT ALL FLUSH JOIST-TO-JOIST AND JOIST-TO-BEAM CONNECTIONS
- HEADERS IN ALL BEARING PARTITIONS AND BEARING WALLS TO BE SOLID DIMENSIONAL LUMBER SIZED AS INDICATED ON FRAMING PLANS W/ ¼" SOLID PL WOOD BETWEEN UNLESS OTHERWISE NOTED. LAMINATED HEADERS AND BEAMS SHALL BE NAILED AS PER MANUFACTURERS SPECIFICATIONS
- ALL HEADERS IN EXCESS OF 4'-0" SHALL HAVE MIN. (2) TRIMMER JACKS ON EACH SIDE
- PROVIDE ADDITIONAL JOIST OR TRUSS UNDER INTERIOR PARTITIONS RUNNING PARALLEL TO FLOOR JOIST AND HAVING A LENGTH GREATER THAN 6'-0". DOUBLE JOIST UNDER BATHTUBS OR SPACE JOIST AT 12" O.C.
- ALL BEARING PARTITIONS SHALL HAVE 2 TOP PLATES - STAGGER SPLICES 4'-0" MIN. SPLICES SHALL BE CENTERED OVER TOP OF STUDS. STUDS SHALL ALIGN WITH JOISTS AND RAFTERS ABOVE AND BELOW
- PROVIDE 2X FIRESTOP BLOCKING AS REQUIRED BY CODE THROUGHOUT.
- Holes bored or cut into joists shall NOT OCCUR WITHIN 2' OF TOP OR BOTTOM OF JOISTS NOR IN CENTER ONE THIRD OF JOIST SPAN AND THE DIAMETER OF HOLES SHALL NOT EXCEED ONE THIRD OF THE DEPTH OF THE JOIST. NOTCHES SHALL NOT OCCUR IN TENSION SIDE OF JOIST. NOTCHES IN COMPRESSION SIDE OF JOISTS SHALL NOT OCCUR IN THE CENTER ONE THIRD OF THE SPAN AND SHALL NOT EXCEED ONE SIXTH OF THE DEPTH OF THE JOIST.
- WHERE THE INSTALLATION OF PLUMBING, HEATING, OR OTHER PIPES NECESSITATES THE CUTTING OF TOP PLATES MORE THAN ONE HALF THEIR WIDTH A METAL TIE NOT LESS THAN 18 GAUGE AND 1 1/2" IN WIDTH SHALL BE FASTENED TO THE PLATE ACROSS AND TO EACH SIDE OF THE OPENING WITH NOT LESS THAN (4) 16 PENNY NAILS.
- THE DIAMETER OF HOLES BORED IN BEARING WALL STUDS SHALL NOT EXCEED ONE THIRD THE WIDTH OF THE STUD. WHERE STUDS ARE CUT OR BORED IN EXCESS OF ONE THIRD THE WIDTH OF THE STUD IT SHALL BE REINFORCED TO BE EQUAL IN LOAD CARRYING CAPACITY TO A STUD NOTCHED NOT MORE THAN ONE THIRD ITS DEPTH.
- STEEL LINTELS - (FOR EACH 4" THICKNESS OF MASONRY WALL)  

OPENING WIDTH	ANGLE SIZE	BEARING LENGTH
UP TO 3'-11"	L3 ½ X 3 ½ X 5/16	5'
4'-0" TO 5'-11"	L4 X 3 ½ X 5/16	5'
6'-0" TO 7'-11"	L5 X 3 ½ X 5/16	5'
8'-0" TO 10'-0"	WBX15 W/ SUSPENDED PLATE	5'

WOOD LINTEL HEADER TABLE	WOOD SIZE	BEARING
0' TO 3'-0"	2-2X6	6'
3'-1" TO 5'-0"	2-2X8	8'
5'-1" TO 6'-0"	2-2X10	10'
6'-1" TO 7'-0"	2-2X12	12'

**REINFORCED CMU LINTELS:** PROVIDE A MINIMUM OF 8" BEARING AT EACH END

OPENING WIDTH	LINTEL SIZE AND REINFORCING
UP TO 4'-0"	WALL THICKNESS X 8" DEEP, REINFORCED W/ #4 BOTTOM UP TO 8" THICK, REINFORCED W/ #4 BOTTOM OVER 8" THICK
4'-1" TO 8'-0"	WALL THICKNESS X 16" DEEP, REINFORCED BOTTOM UP TO 8" THICK, REINFORCED W/ #5 BOTTOM OVER 8" THICK & #3 STIRRUPS @ 6" o.c.

**PRECAST CONCRETE LINTELS:** PROVIDE A MINIMUM OF 8" BEARING AT EACH END

OPENING WIDTH	LINTEL SIZE AND REINFORCING
UP TO 4'-0"	WALL THICKNESS X 8" DEEP, REINFORCED W/ #4 BOTTOM
4'-1" TO 8'-0"	WALL THICKNESS X 16" DEEP, REINFORCED W/ #5 BOTTOM

- THE CONTRACTOR SHALL VERIFY ALL OPENINGS BELOW LINTELS INDICATED ARE ADEQUATE TO ACCEPT DOOR FRAMES, LOUVERS ETC. ARE SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO LINTEL INSTALLATION.
- NO OPENINGS SHALL BE PLACED ABOVE ANY LINTEL WITHIN A HEIGHT LESS THAN OR EQUAL TO THE WIDTH OF THE CLEAR OPENING BELOW THE LINTEL, UNLESS SPECIFICALLY SHOWN OR APPROVED BY THE STRUCTURAL ENGINEER.

**FINISHES:**

- ALL EXTERIOR WOOD CORNICE AND TRIM SHALL BE PRIMED ON ALL SIDES PRIOR TO INSTALLATION
- ALL INTERIOR WALLS AND CEILINGS TO BE ½" THICK GYPSUM WALLBOARD EXCEPT AS OTHERWISE NOTED.
- SHOWER AND TUB WALLS ARE TO BE CERAMIC TILE ON CEMENTINOUS TILE BACKER BOARD.
- INTERIOR TRIM AND MOULDINGS INCLUDING BASE, CASINGS, CROWN, CHAIRRAIL, ETC. SHALL BE AS DETAILED AND/OR AS SELECTED BY OWNER

**INSULATION:**

- INSULATION IN EXTERIOR WALLS, FLOORS, OR CEILINGS SHALL BE PAPER BACKED BLANKET OR ROLL TYPE FIBERGLASS WITH VAPOR BARRIER.
- INSULATION IN EXT. WOOD FRAME WALLS TO BE R-13 NOM. ½" AT 2X4 WALLS AND R-19 5 1/2" AT 2X6 WALLS
- INSULATION IN FLAT CEILINGS ADJACENT TO ATTIC SPACES TO BE NOM. 10" (R-30)
- PROVIDE R-13 INSULATION W/ FOIL VAPOR BARRIER AT CONC. FOUNDATION WALLS
- NEW DOORS AND WINDOWS ARE REQD TO HAVE AN R-2.8 RATING MIN.

**DRAINAGE OF FOOTINGS:**

- UNLESS OTHERWISE NOTED, PROVIDE PERIMETER BASEMENT WALLS WITH 4" OR 6G, DIAMETER PERFORATED, CORRUGATED PLASTIC DRAIN LAID ON 2" GRAVEL BASE W/ 6" - 8" GRAVEL COVER WITH JOINTS COVERED WITH FILTER CLOTH FOR PERFORATED TILE.
- SLOPE DRAIN TILE AS REQUIRED TO DRAIN TO STORM SEWER OR OUTFALL.
- PUT 18" OF GRAVEL ALL AROUND FOUNDATION.

**DAMP PROOFING FOR CONCRETE AND MASONRY FOUNDATIONS:**

- FOUNDATION FOUNDATION WALLS OF CONSTRUCTION ENCLOSING BASEMENTS SHALL BE PORTLAND CEMENT PARGING TO THE WALL FROM FOOTING TO FINISH GRADE.
- THE PARGING SHALL BE COVERED WITH A COAT OF APPROVED BITUMINOUS MATERIAL APPLIED AT THE RECOMMENDED RATE.

**REINFORCING:**

- REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO ASTM A615 -95C, GRADE 60 (60000 PSI).
- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A - 185.
- ALL REINFORCING SHALL BE DETAILED FABRICATED AND PLACED IN ACCORDANCE WITH THE ACIS "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES" (ACI - 315).
- DETAILS OF REINFORCEMENT SHALL CONFORM TO ACI 318 - 95, ACI 315 - 74 AND CRSI STANDARDS.
- ALL REINFORCING STEEL MARKED " CONTINUOUS " SHALL BE LAPPED 36 BAR DIAMETERS ST SPLICED AND AROUND CORNER OR INTERSECTION WITH A STANDARD 90 DEGREE BEND ON CORNER BARS.
- LAP WELDED WIRE MESH ONE FULL MESH AT SIDE AND END LAPS.
- SLABS ON GRADE SHALL BE 4" THK. CONCRETE AND REINFORCED WITH 6X6" W1. 4XW1.4 WWF LAP MESH 8" IN EACH DIRECTION. PLACE CONCRETE OVER 4 MIL. POLYETHYLENE VAPOR BARRIER AND 4" MINIMUM OF COARSE AGGREGATE OR AS RECOMMENDED BY SOILS ENGINEER. THE AGGREGATE LAYER SHALL BE PLACED OVER FIRM NATURAL SUB GRADE OR ON COMPACTED OR AND CONTROLLED FILL. FILL UNDER SLABS SHALL BE COMPACTED IN 8" LAYERS TO 95% MAXIMUM DENSITY. USE AIR ENTRAINED CONCRETE AT ALL EXTERIOR SLABS. POUR SLABS IN ALTERNATE PANELS WITH MAXIMUM OF 600 SQUARE FEET AND PROVIDE CONTROL & CONSTRUCTION JOINTS AT 30'-0" MAXIMUM OR AS REQUIRED TO PREVENT UNCONTROLLED CRACKING.

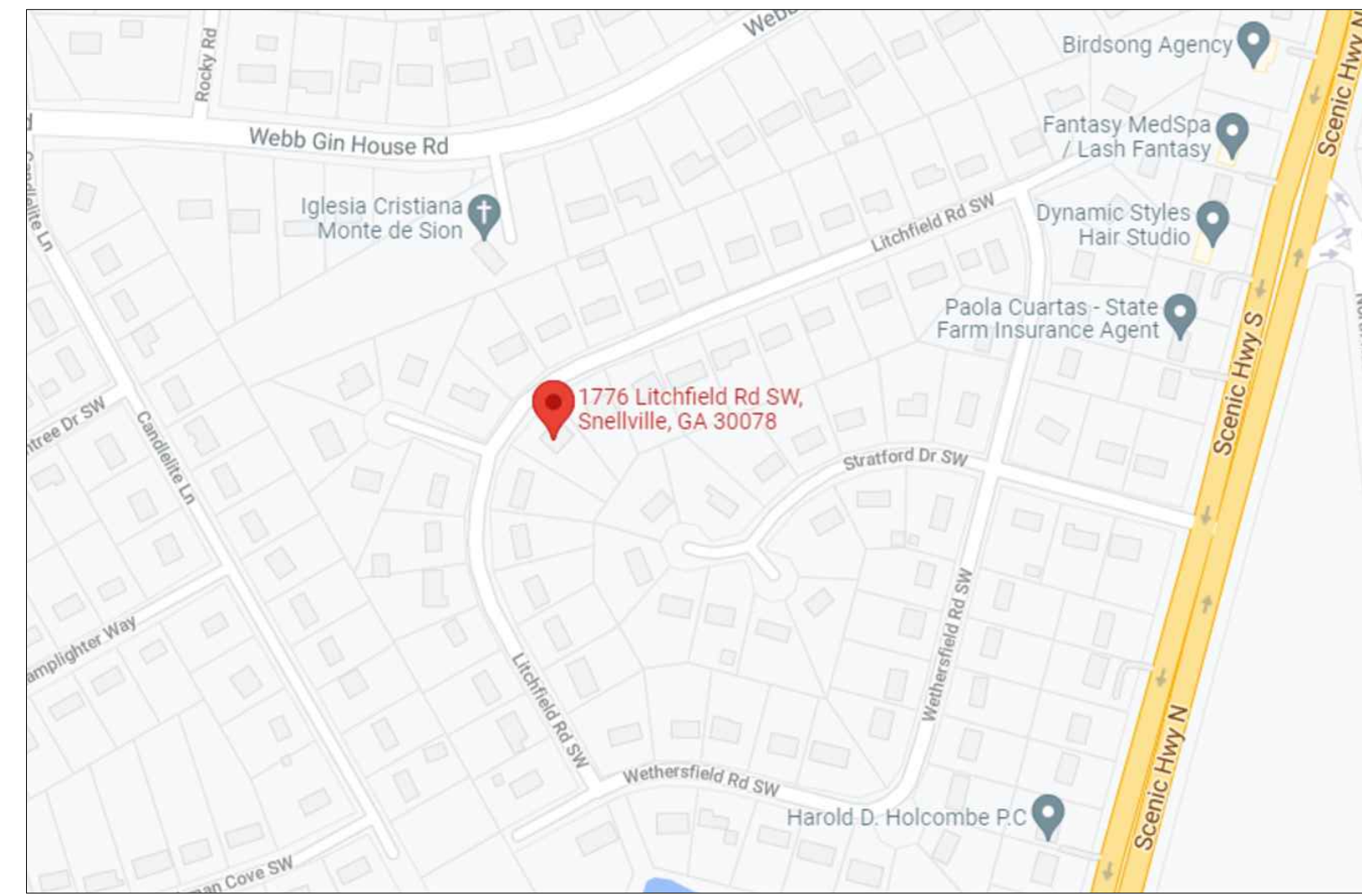
**GENERAL NOTES:**

OCCUPANCY TYPE: EXISTING CONSTRUCTION (RESIDENTIAL)  
NO. OF STORIES: 2 OVER SLAB

THIS BUILDING WAS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE FOR SINGLE-FAMILY DWELLINGS - 2018 EDITION WITH 2020 GEORGIA STATE AMENDMENTS

**SCOPE OF WORK:**

- REAR ADDITION TO MAIN FLOOR OF HOME
- REAR ADDITION TO BASEMENT LEVEL OF HOME
- REAR ADDITION TO UPPER FLOOR OF HOME
- REMODEL EXISTING INTERIOR
- FRONT PORCH ADDITION
- REAR PORCH ADDITION



LOCATION MAP  
NTS

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SQ. FT. DATA	
EXISTING (HEATED)	1,486 SQFT
PROPOSED (HEATED)	2,519 SQFT
NEW FRONT PORCH	125 SQFT
NEW REAR PORCH	183 SQFT

**MATERIAL SCHEDULE:**

	BRICK		FINISHED WOOD
	CONCRETE BLOCK		PLYWOOD or PARTICLE BOARD
	SOLID CONCRETE BLOCK OR FILLED BLOCK		GLASS
	CONCRETE		EXPANSION JOINT MATERIAL
	GRAVEL or CRUSHED STONE		BATT INSULATION
	STEEL		RIGID INSULATION or ROOF PLANK
	COMPOSITION TILE		GYPSUM BOARD or GYPSUM DECK
	ROUGH WOOD CONTINUOUS		EARTH

**ABBREVIATIONS:**

A.C. AIR CONDITIONING	C.I. CAST IRON CONTROL JOINT CENTERLINE	E.I.F.S. EXTERIOR INSULATION & FINISH SYSTEM FOR EXAMPLE EXPANSION JOINT	GYP. GYPSUM	MIN. MINIMUM	RAIL. RAILING	VERT. VERTICAL
ADD. ADDITION	C.L.G. CENTERLINE	Eg. EQUAL	H.B. HOSE BIBB	MISC. MISCELLANEOUS	R.M. ROOM	V.C.T. VINYL COMPOSITION TILE
A.F.F. ABOVE FINISHED FLOOR	CLG. CLOS. or CL. CLOSET	ELEC. ELECTRICAL	HD. HEAD	M.O. METAL THRESHOLD	RND. ROUND	V.I.F. VERIFY IN FIELD
ALT. ALTERNATE	CMU. CONCRETE MASONRY UNIT	ELEV. ELEVATION or ELEVATOR	HT. HEIGHT	M.T. METAL	R.O. ROUGH OPENING	W. WITH
ALUM. ALUMINUM	C.O. CLEAN OUT	EQ. EQUIP. EQUIPMENT	HM. HOLLOW METAL	N.I.C. NOT IN CONTRACT	S.C. SOLID CORE	WO. WITHOUT
& ANG. AND ANGLE	COL. COLUMN	EXP. EXPANSION or EXPOSED	HORIZ. HORIZONTAL	NO. NOT TO SCALE	SCH. SCHEDULE	W/ W/
APPROX. APPROXIMATELY	CONC. CONCRETE CONSTRUCTION	EXP. EXPANSION or EXPOSED	HR. HOUR	N.T.S. NOT TO SCALE	SEAL. SEALANT	WD. WINDOW
ARCH. ARCHITECTURAL/ARCHITECT	CONSTR. CONSTRUCTION	EXIST. EXISTING	H.P. HIGH POINT	O.C. ON CENTER	SECT. SECTION	WIND. WINDOW
@ AT	COORD. COORDINATE or COORDINATION	EXP. EXPANSION or EXPOSED	I.D. INSIDE DIAMETER	O.D. OUTSIDE DIAMETER	SHT. SHEET	W.M.A.S. WATERPROOF or WATERPROOF
A.T. ACOUSTICAL TILE	COOR. COORD. COORDINATION	F.D. FLOOR DRAIN	IN. INCH	OFF. OFFICE	SIM. SIMILAR	W.P. WEATHERPROOF or WEATHERPROOF
BD. BOARD	CONTR. CONTINUOUS	F.H. FIRE HYDRANT	INSUL. INSULATION	OVHD. OVERHEAD	S/S. SIMILAR OPPOSITE HAND SIDE	W.W.M. WATER WIRE MESH
BLD.G. BUILDING	C.T. CERAMIC TILE	FIN. FINISH	J. JOINT	OPNG. OPENING	S/S. SIMILAR OPPOSITE HAND SIDE	W.C. WATER CLOSET or WALL COVERING
BLK. BLOCK	C.T.S.K. COUNTERSINK	FXT. FIXTURE	JAN. JANITOR CLOSET	PART. PARTITION	SQ. or sq. SQUARE	
BLK.G. BLOCKING	C.W.G. CLEAR WIRE GLASS	FL. FLOOR	J.T. JOINT	PREFAB. PREFABRICATE	S/S. STAINLESS STEEL	
BOT. BOTTOM	D.B. DOUBLE	FLUOR. FLUORESCENT	LAM. LAMINATE	PREFIN. PREFINISHED	STD. STANDARD	
BRG. BEARING	D.F. DETAIL	FT. FOOT	L.P. LOW POINT	P.T.D. PAINTED	STL. STEEL	
BSMT. BASEMENT	DIA. OR Ø DIAMETER	FTG. FOOTING	MAX. MAXIMUM	Q.T. QUARRY TILE	STOR. STORAGE	
B.U. BUILT UP	D.N. DOWN	GA. GAUGE	MATL. MATERIAL	R.D. RISER or RADIUS	STRUCT. STRUCTURE or STRUCTURAL	
CB. CHALKBOARD	D.W.G(S) DRAWING(S)	GL. GALVANIZED	M.C. MECHANICAL CABINET	R.O. ROOF DRAIN	TEL. TELEPHONE	
CEM. CEMENT	E.A. EACH	GR. GRADE	M.E. MECHANICAL	R.D. REINFORCEMENT or REINFORCING	T.P.H. TONGUE & GROOVE	
	E.F. EXHAUST FAN	G.W.B. GYPSUM WALL BOARD	MEMB. MEMBRANE	RINF. REINFORCED	THK. THICK	
			MEMB. MEMBRANE	REQD. REQUIRED	TYP. TYPICAL	
			MN. MINIMUM		U.N.O. UNLESS NOTED OTHERWISE	
			MEZZ. MEZZANINE			
			MFG(R) MANUFACTURE(R)			
			MH. MANHOLE			

**SYMBOLS:**

	NORTH ARROW		KEYED NOTE
	WALL SECTION		PARTITION TYPE
	ELEVATION		EXISTING CONSTRUCTION
	DETAIL		NEW CONSTRUCTION
	ENLARGED DETAIL		DEMOLITION
	WINDOW SYMBOL		COLUMN CENTERLINE
	DOOR SYMBOL		ELEVATION
	100 BEDROOM		CEILING HEIGHT

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NO.	REVISIONS DESCRIPTION	DATE	PROJECT #

DATE: 11.24.21

PERMIT ISSUE: JA

DRAWN: JA

SHEET #

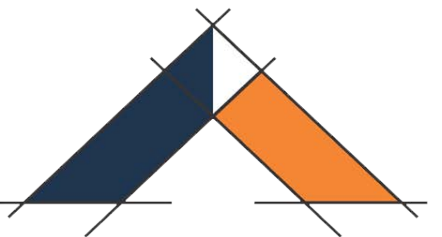
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ENGINEER STAMP & SEAL:

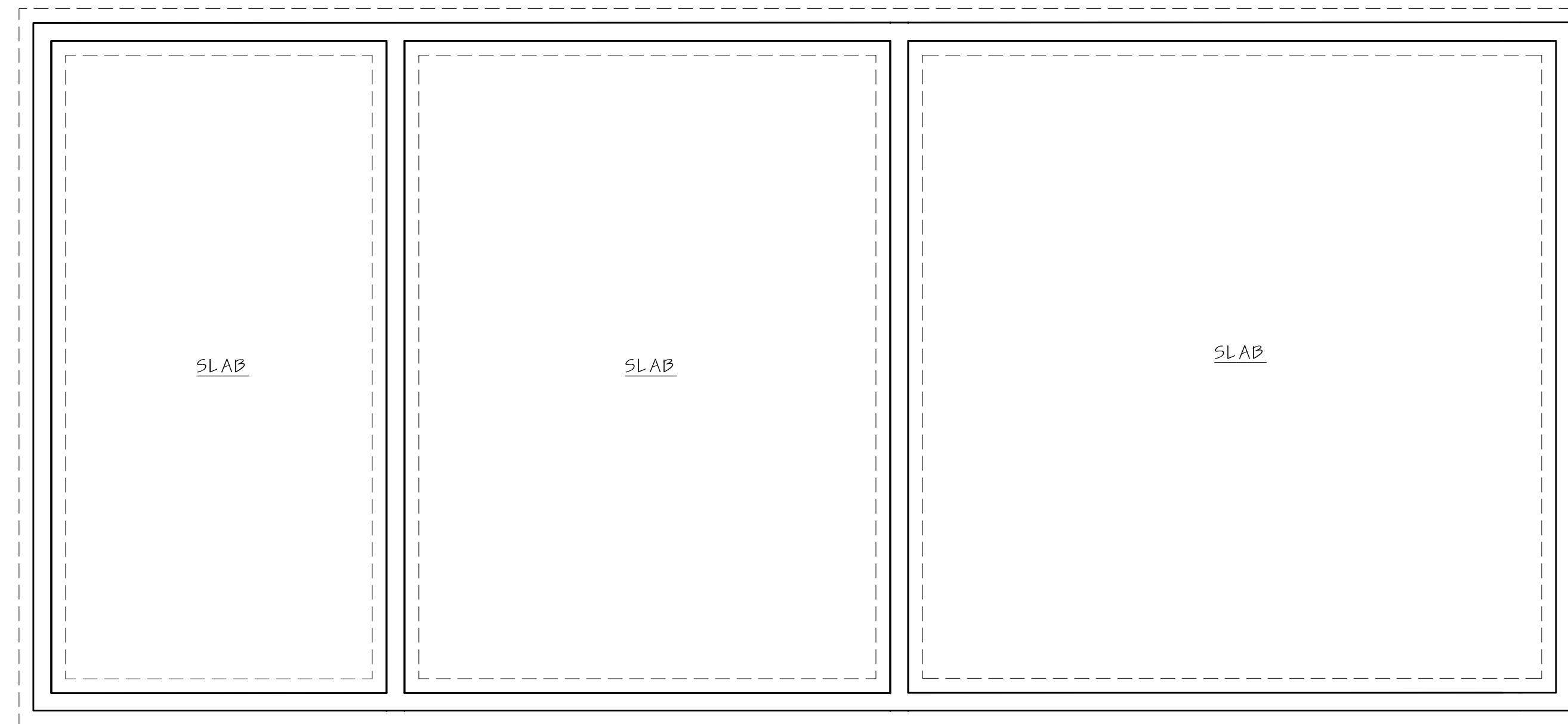


DRAWINGS BY:  
STUDIO TEN DESIGNS



**Studio Ten**  
ARCHITECTURAL DESIGNS

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1 EXISTING FOUNDATION PLAN  
SCALE: 1/4" = 1' - 0"

REMODEL @  
1776 LITCHFIELD RD SW  
SNELLVILLE, GA 30078

PROJECT MANAGER

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DOCUMENT PHASE:

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SEPTEMBER 23, 2021

SHEET TITLE:

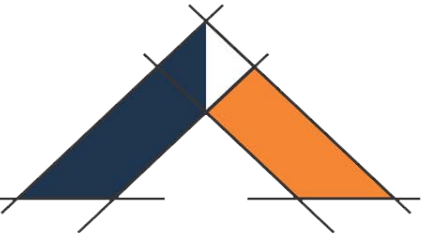
EXISTING  
FOUNDATION PLAN

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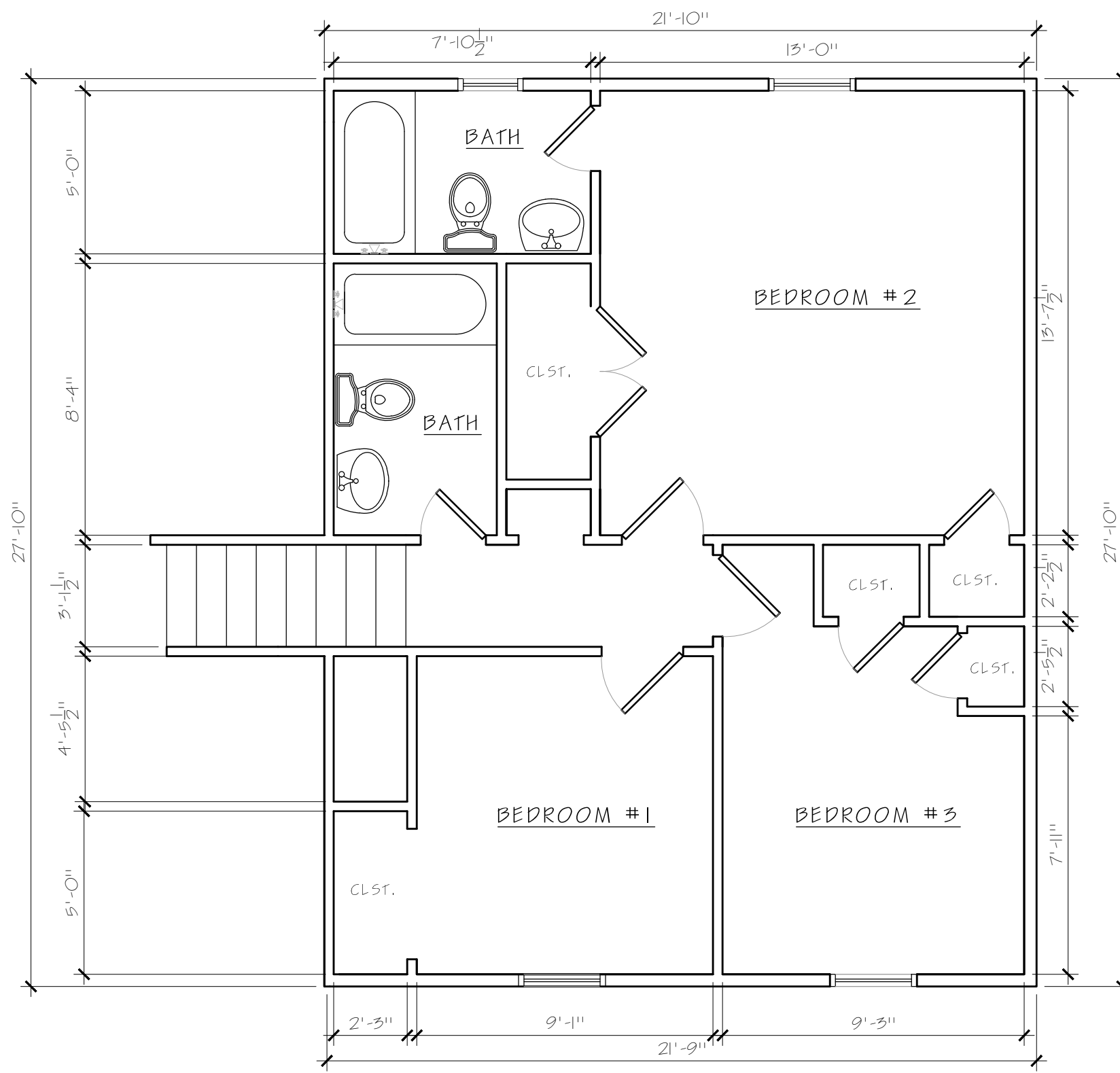


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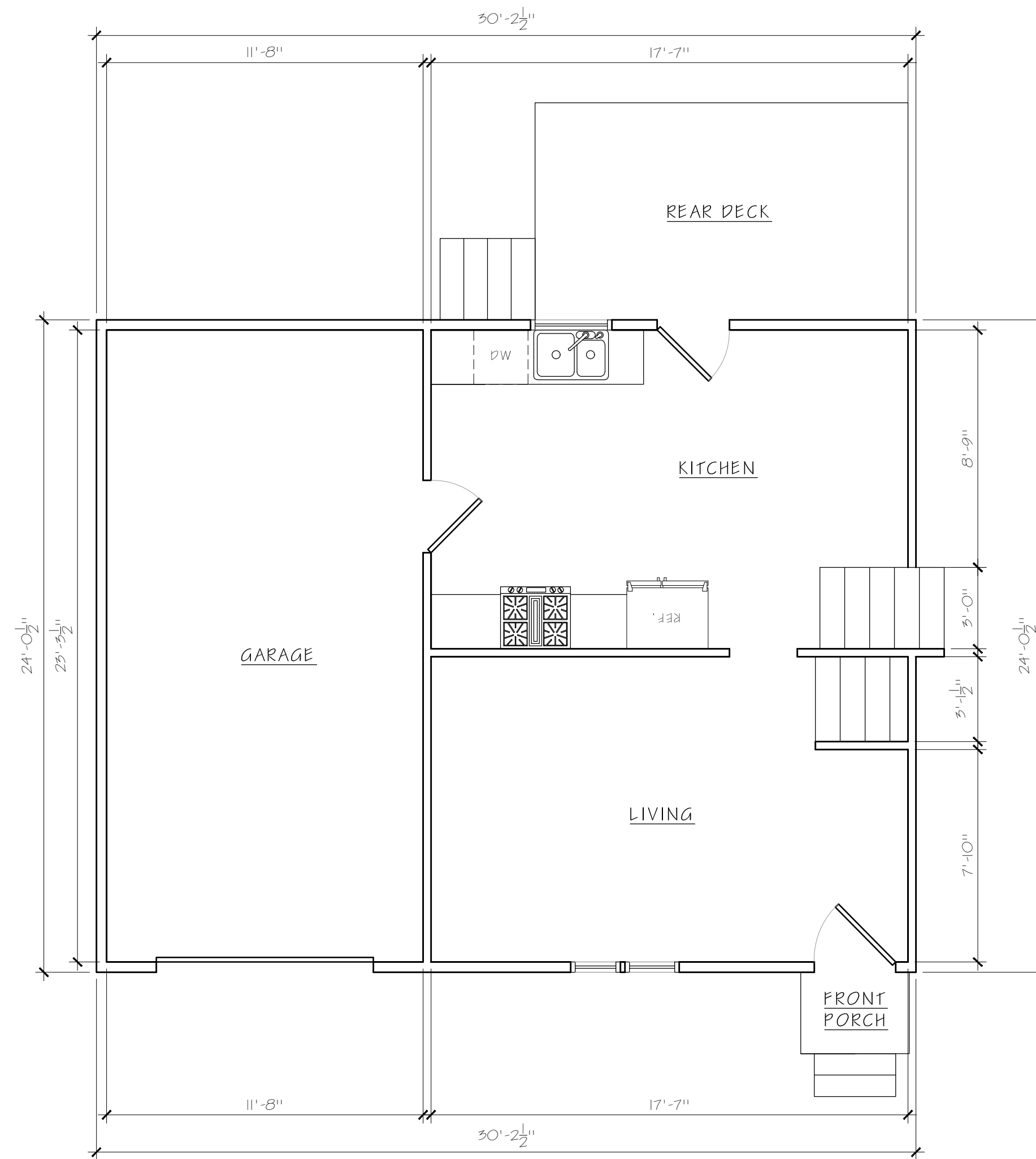


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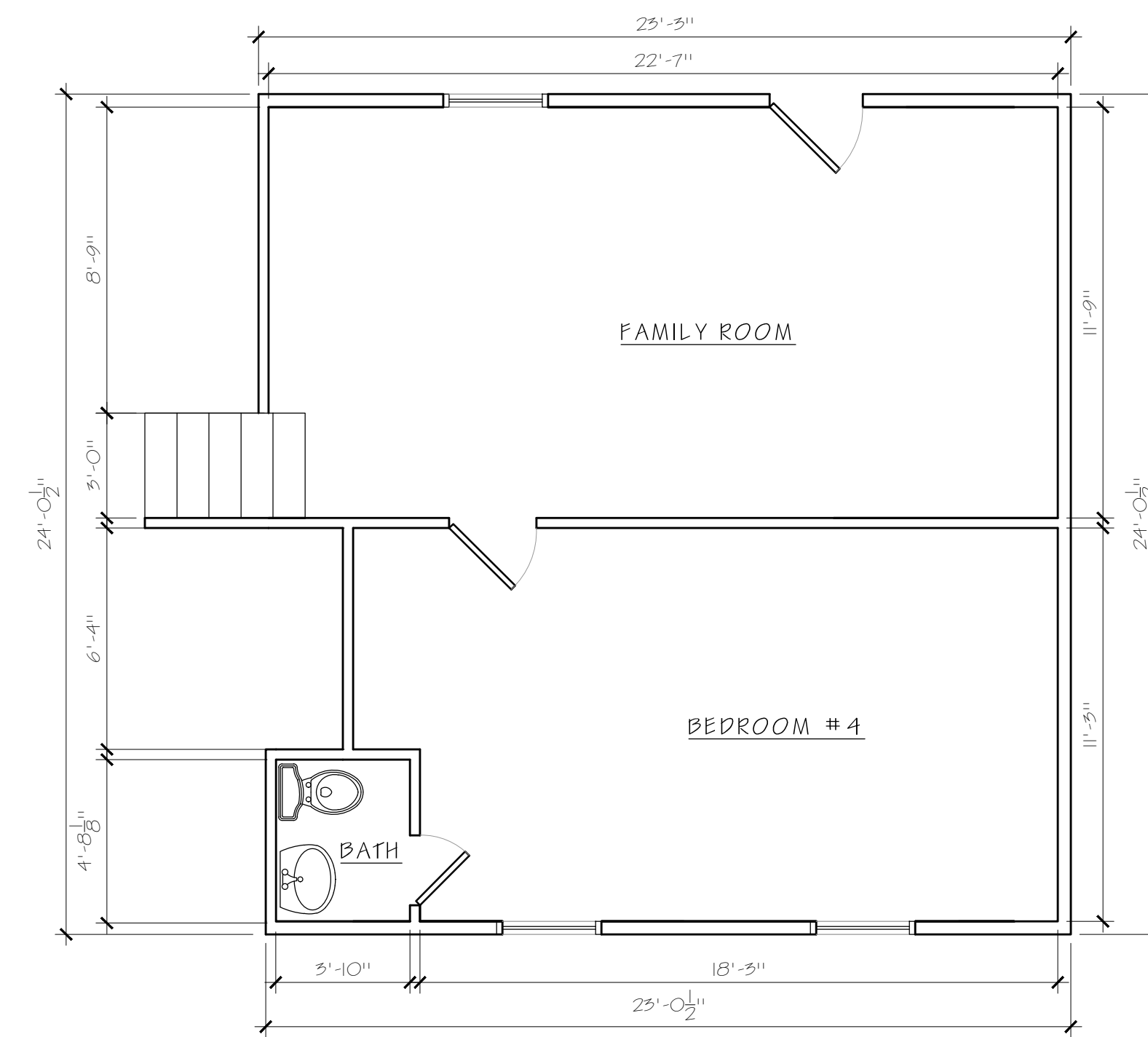
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2 EXISTING UPPER FLOOR PLAN  
SCALE: 1/4" = 1' - 0"



3 EXISTING MAIN FLOOR PLAN  
SCALE: 1/4" = 1' - 0"



4 EXISTING BASEMENT FLOOR PLAN  
SCALE: 1/4" = 1' - 0"

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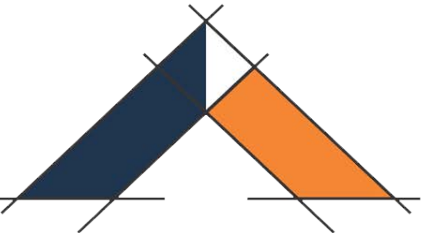
SEPTEMBER 23, 2021

SHEET TITLE:  
EXISTING  
FLOOR PLANS

A.2



DRAWINGS BY:  
STUDIO TEN DESIGNS



**Studio Ten**  
ARCHITECTURAL DESIGNS

JASON ALBERT - 678.390.4655  
JASON@STUDIOTENDESIGNS

REMODEL @  
1776 LITCHFIELD RD SW  
SNELLVILLE, GA 30078

PROJECT MANAGER

---

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DOCUMENT PHASE:

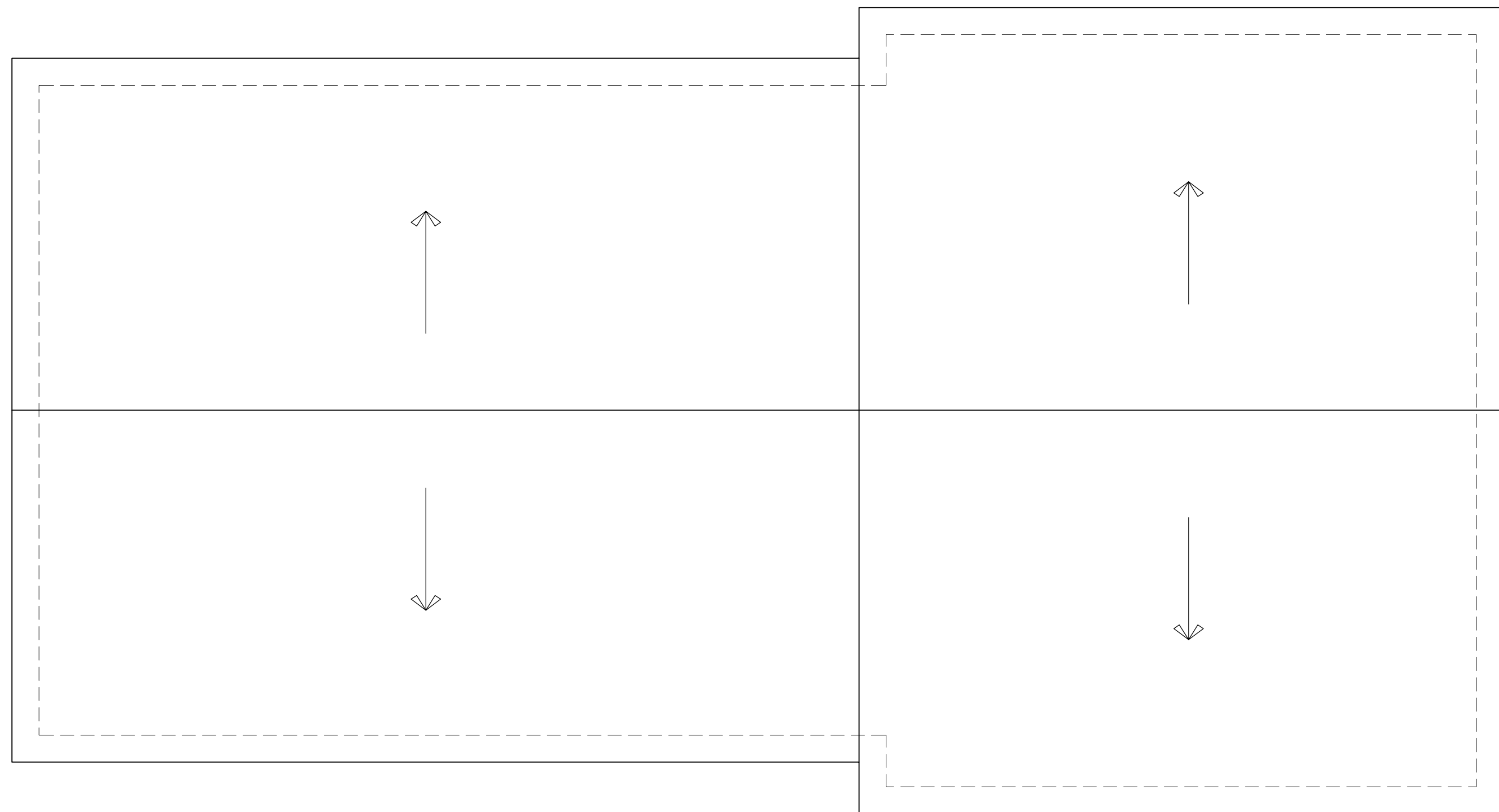
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CONSTRUCTION

SEPTEMBER 23, 2021

SHEET TITLE:

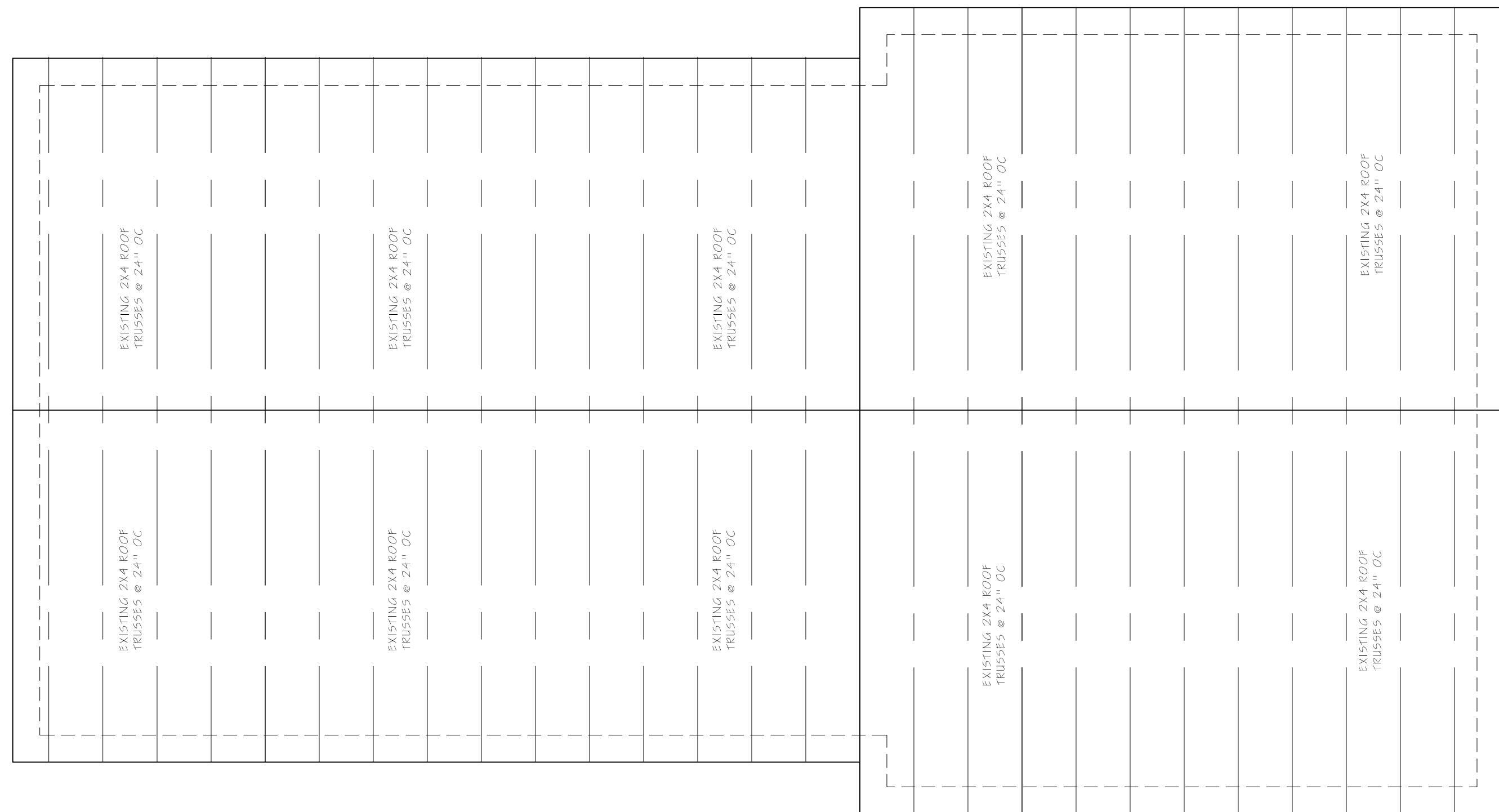
EXISTING  
ROOF & ROOF  
FRAMING PLAN

A.3



5 EXISTING ROOF PLAN

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



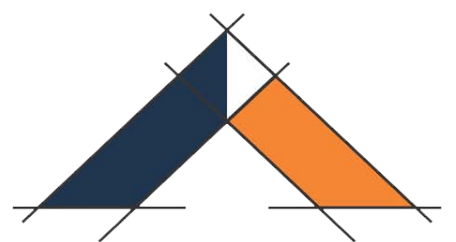
6 EXISTING ROOF FRAMING PLAN

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



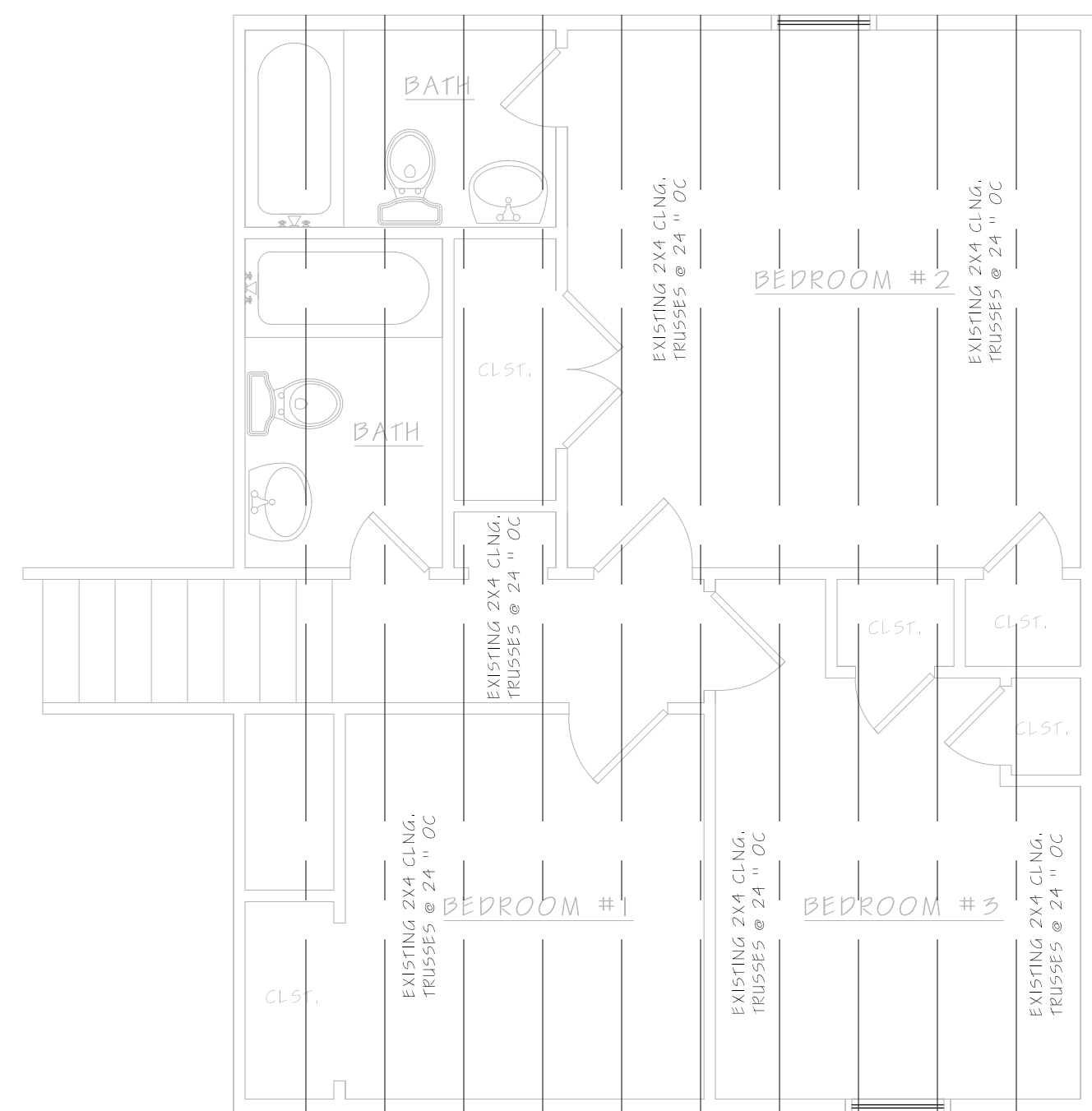


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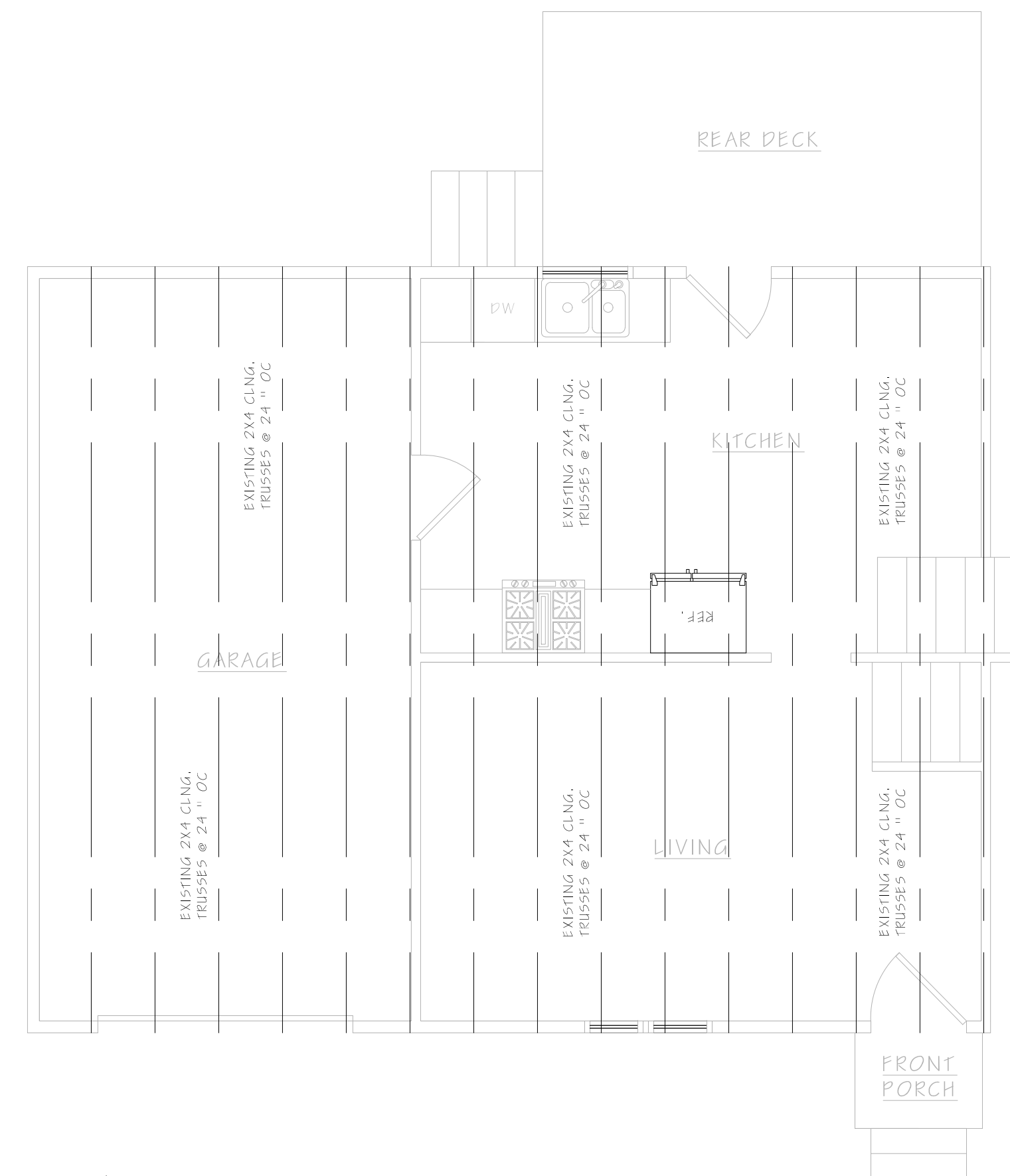


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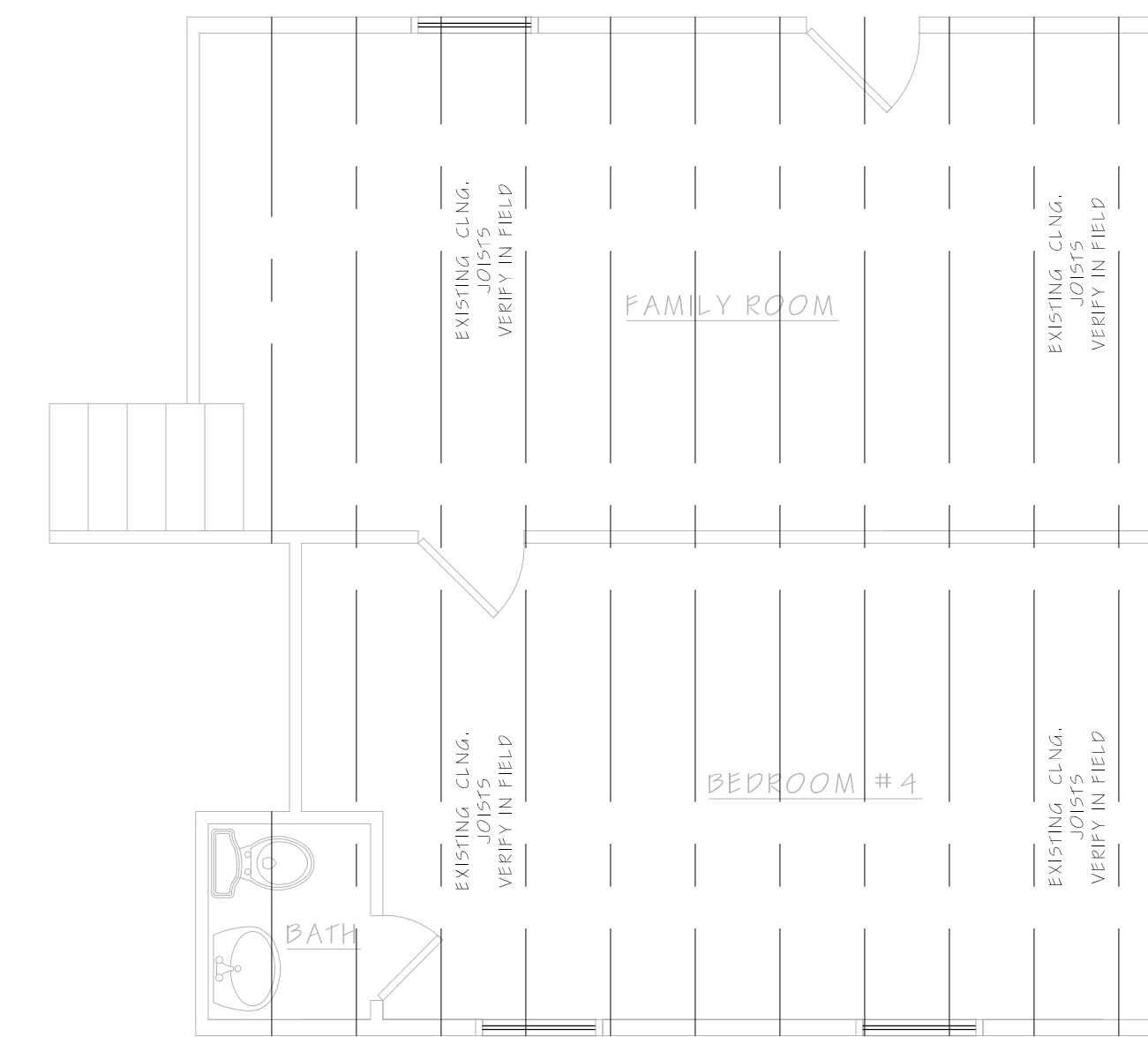
JASON ALBERT - 678.390.4655  
JASON@STUDIOTENDESIGNS



7 EXISTING UPPER CLNG. FRMG. PLAN  
SCALE: 1/4" = 1' - 0"



8 EXISTING MAIN CLNG. FRMG. PLAN  
SCALE: 1/4" = 1' - 0"



9 EXISTING BASEMENT CLNG. FRMG. PLAN  
SCALE: 1/4" = 1' - 0"

REMODEL @  
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SNELLVILLE, GA 30078

PROJECT MANAGER

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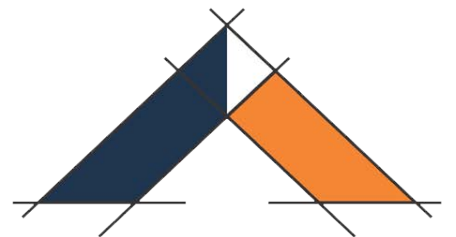
SHEET TITLE:

EXISTING  
CLNG. FRMG.  
PLANS

A.4



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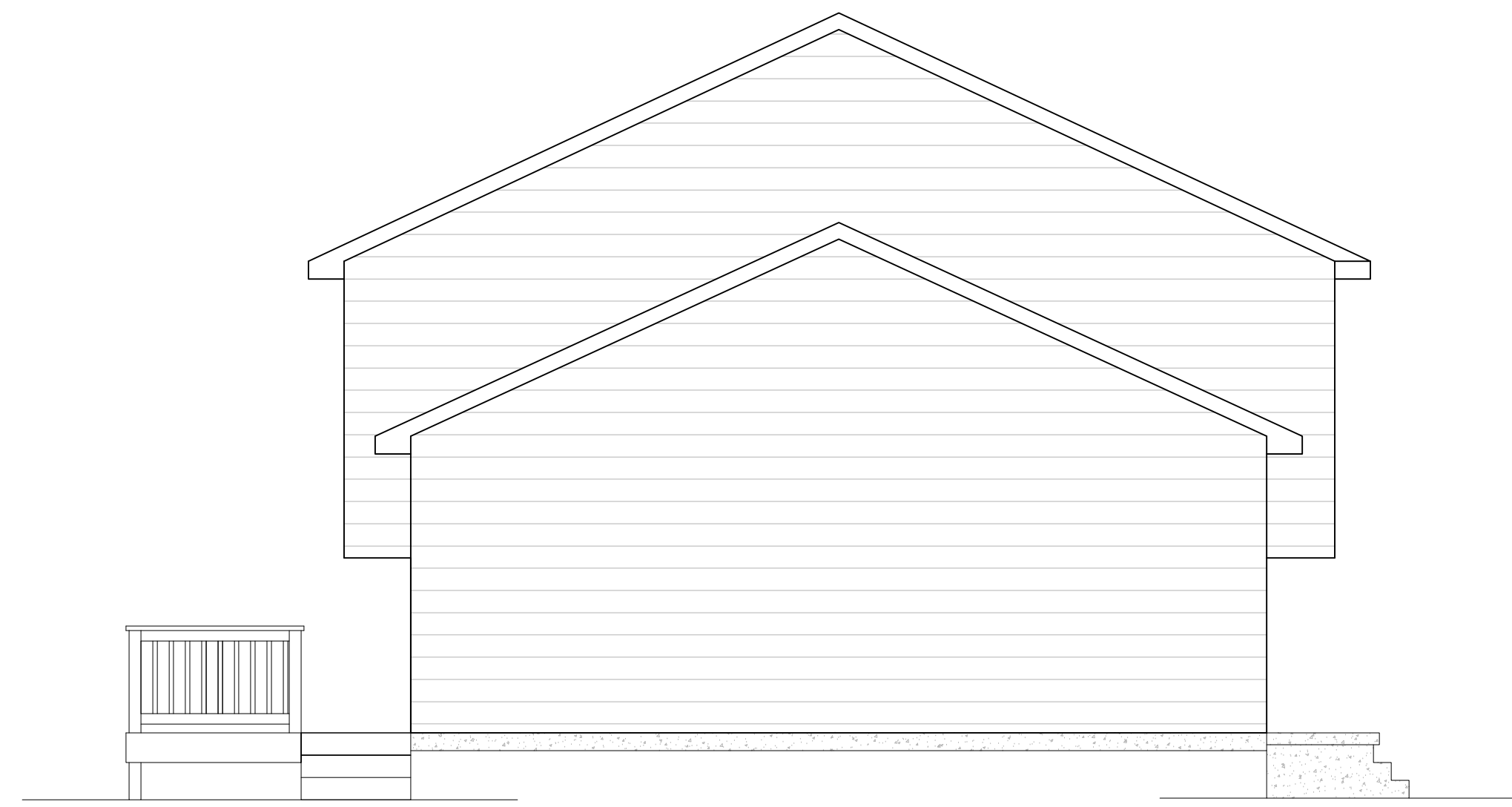
SHEET TITLE:

EXISTING  
EXTERIOR  
ELEVATIONS

A.5



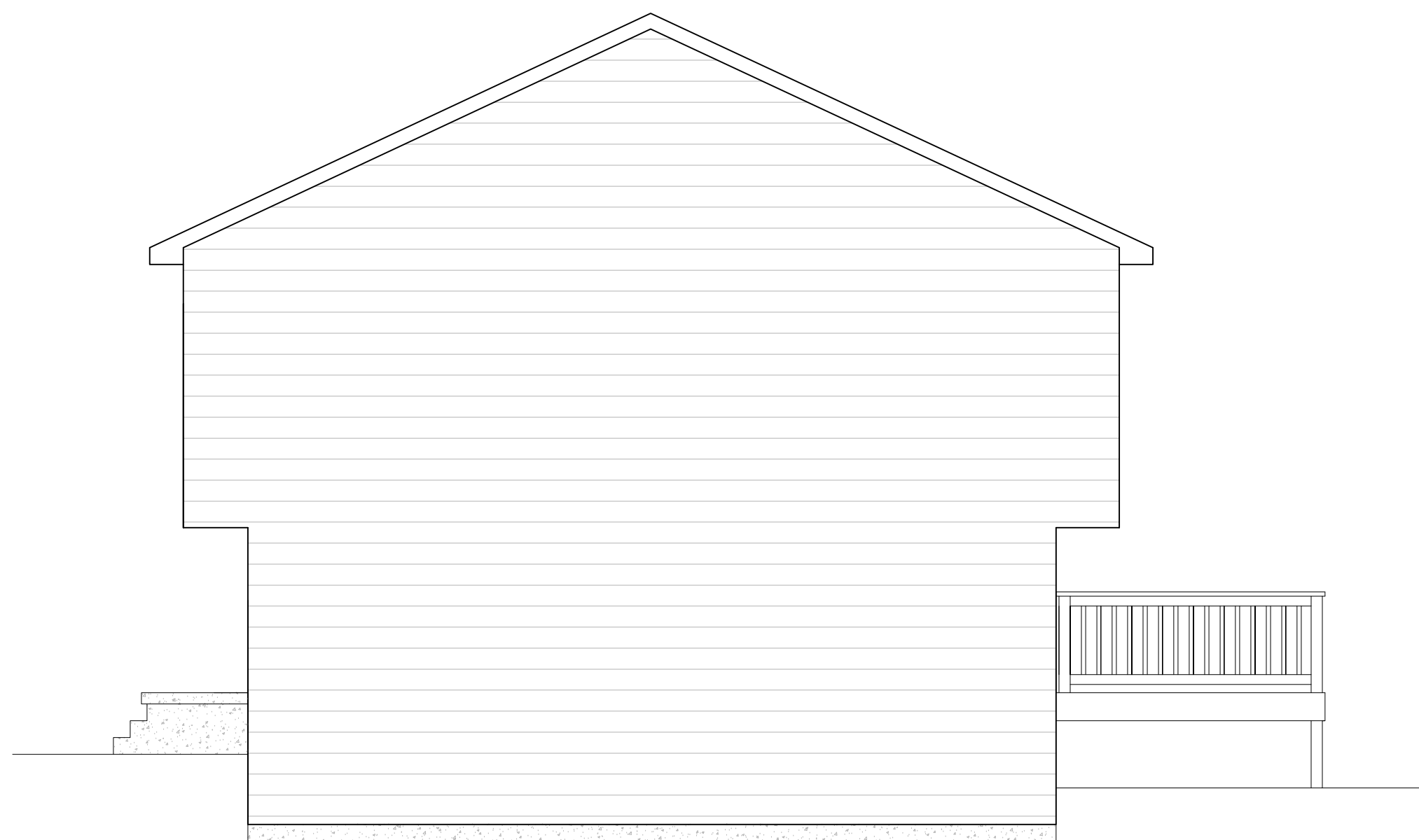
10 EXISTING FRONT ELEVATION  
SCALE: 1/4" = 1' - 0"



12 EXISTING LEFT SIDE ELEVATION  
SCALE: 1/4" = 1' - 0"



11 EXISTING REAR ELEVATION  
SCALE: 1/4" = 1' - 0"

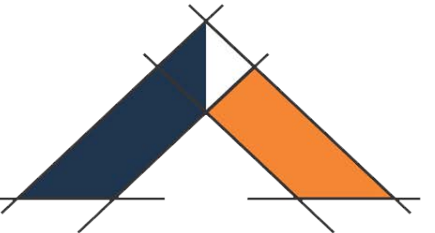


13 EXISTING RIGHT SIDE ELEVATION  
SCALE: 1/4" = 1' - 0"



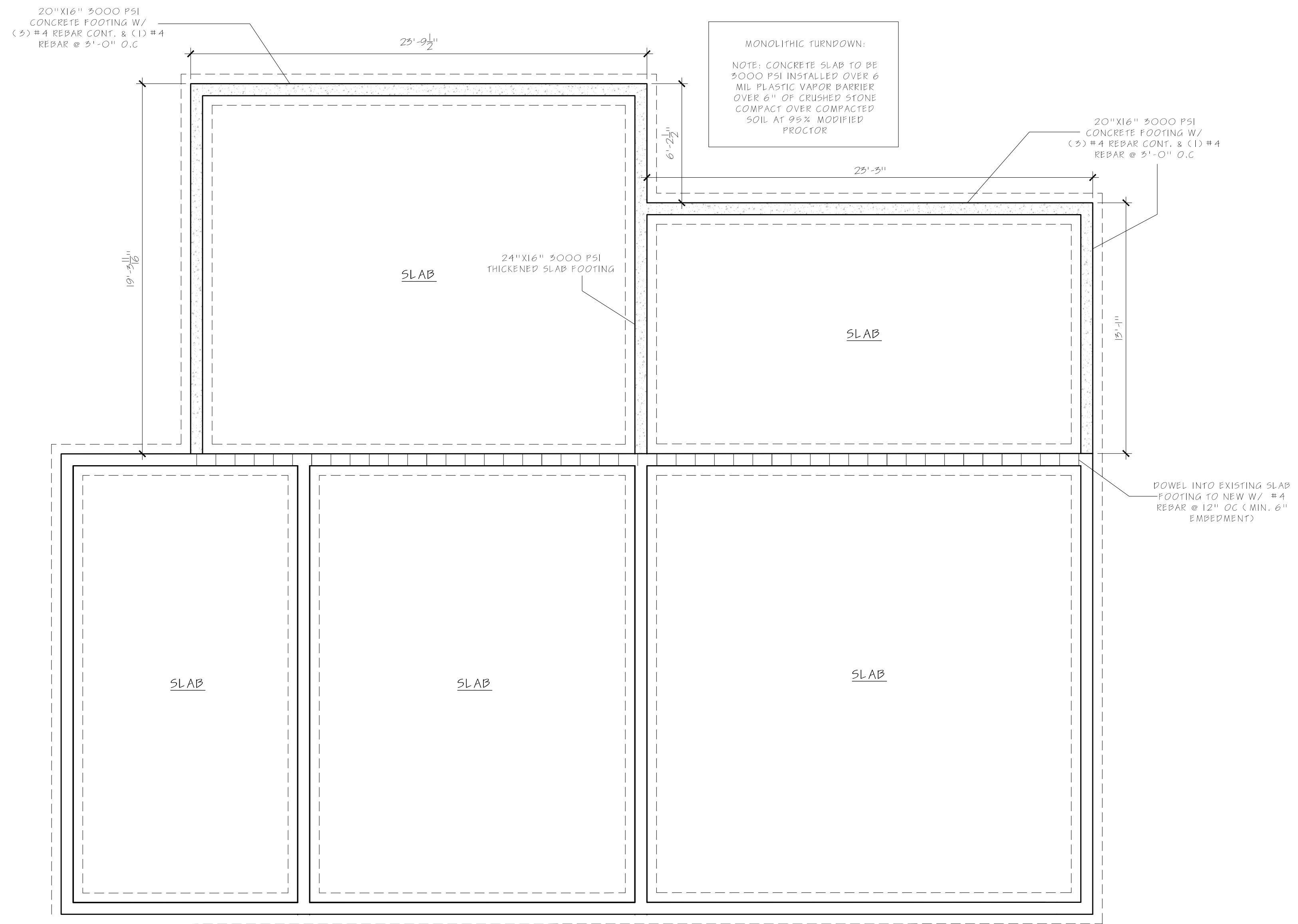


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STUDIO TEN DESIGNS



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ARCHITECTURAL DESIGNS

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1 PROPOSED FOUNDATION PLAN  
SCALE: 1/4" = 1' - 0"

REMODEL @  
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CONSTRUCTION

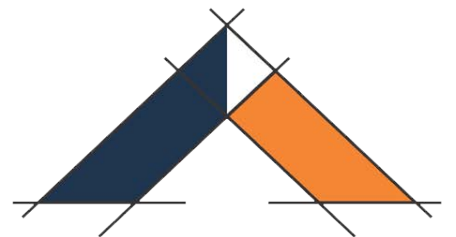
SEPTEMBER 23, 2021

SHEET TITLE:  
PROPOSED  
FOUNDATION PLAN

A.6



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REMODEL @  
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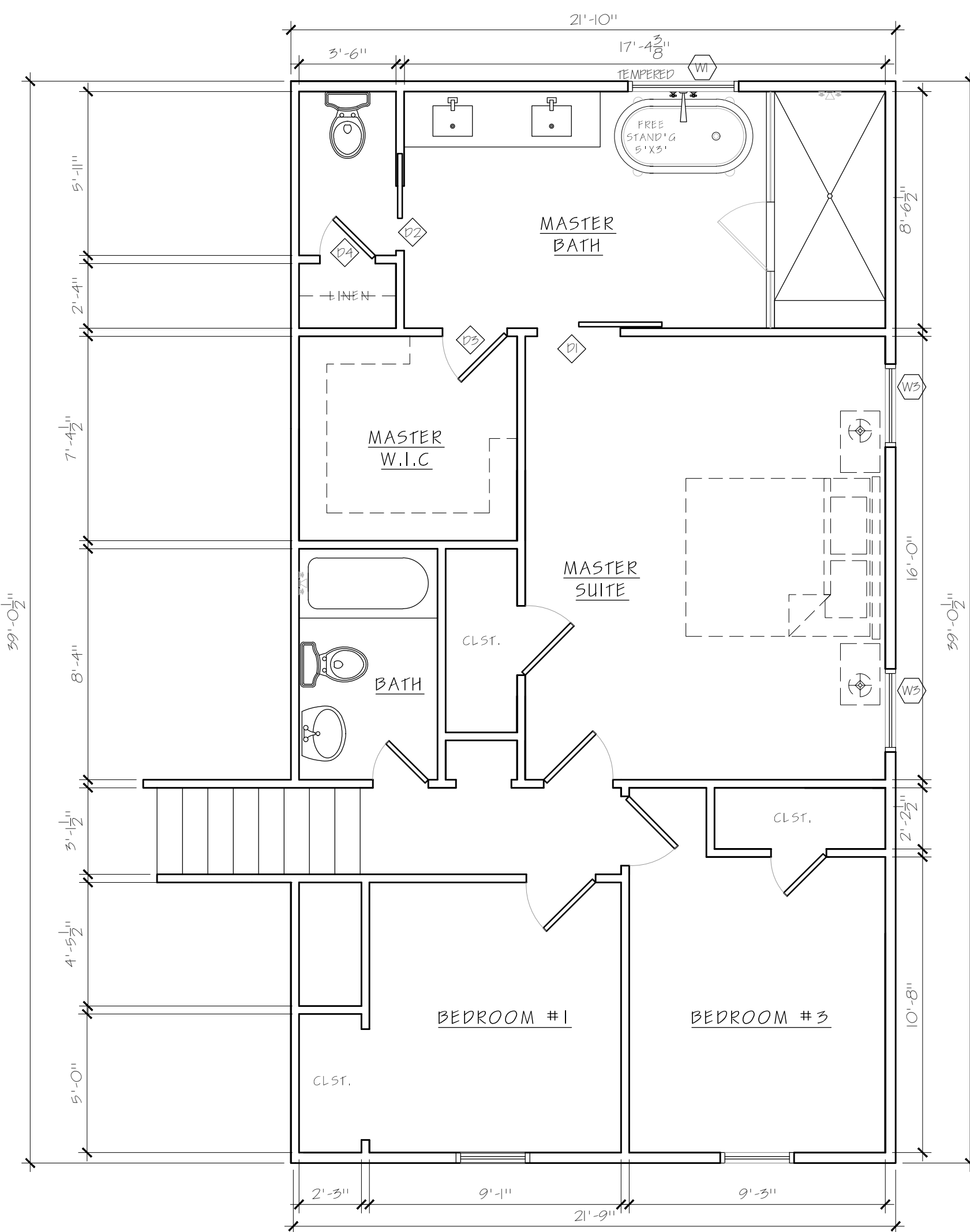
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CONSTRUCTION

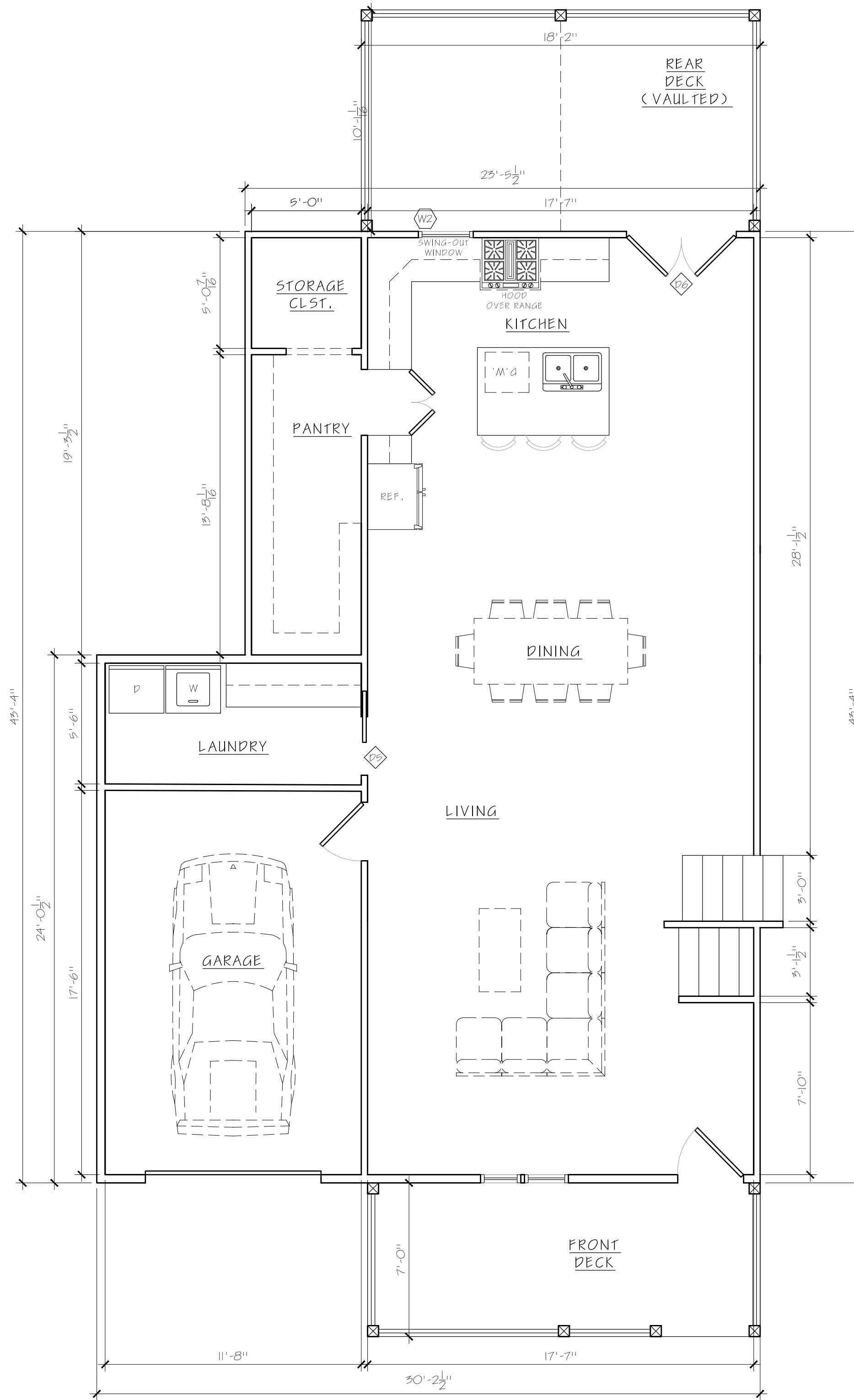
SEPTEMBER 23, 2021

SHEET TITLE:  
PROPOSED  
FLOOR PLANS

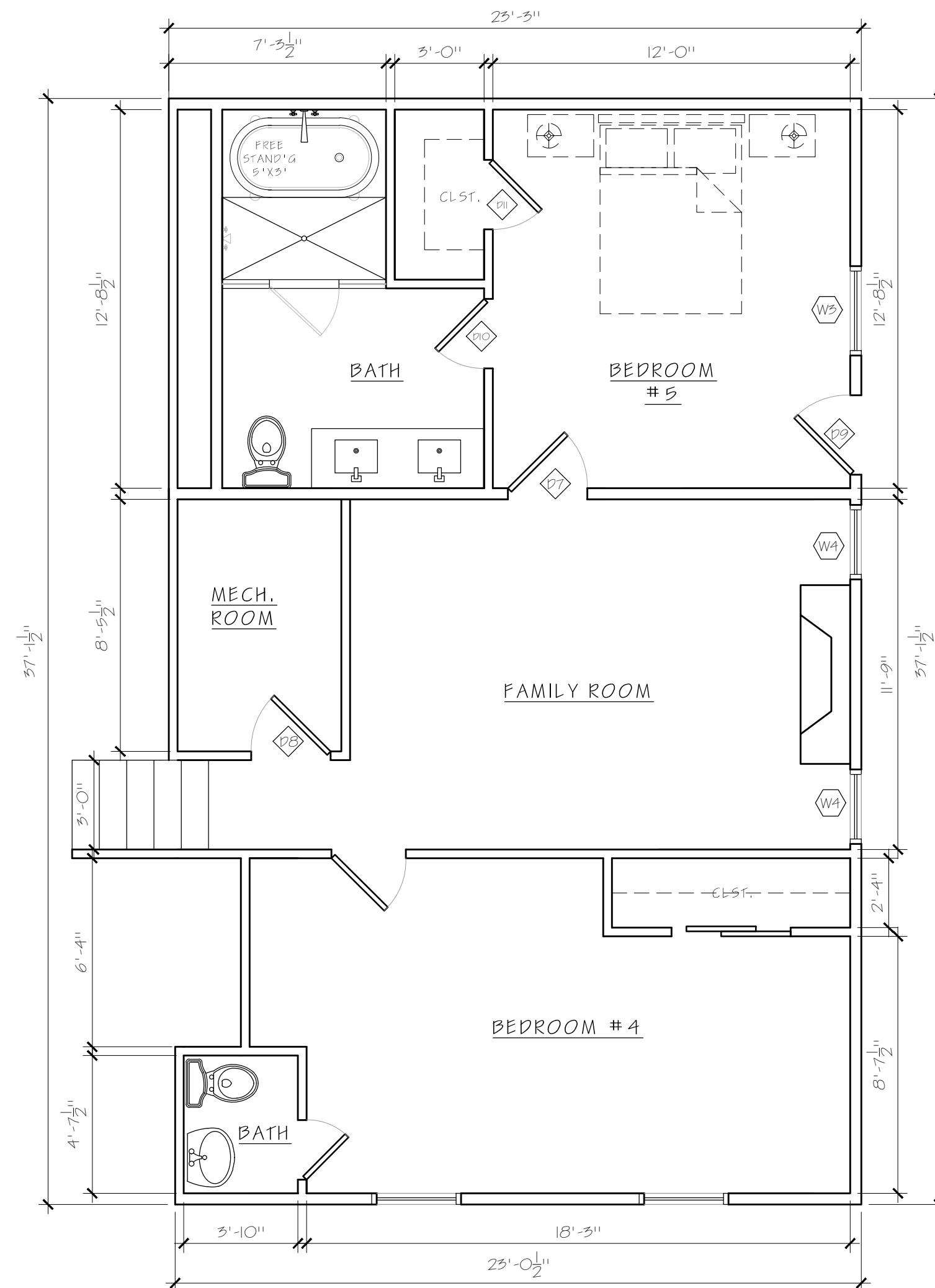
A.7



1 PROPOSED UPPER FLOOR PLAN  
SCALE: 1/4" = 1' - 0"



1 PROPOSED MAIN FLOOR PLAN  
SCALE: 1/4" = 1' - 0"

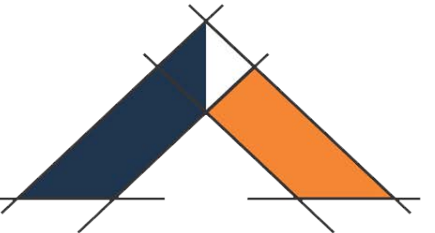


1 PROPOSED BASEMENT FLOOR PLAN  
SCALE: 1/4" = 1' - 0"





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CONSTRUCTION

SEPTEMBER 23, 2021

SHEET TITLE:

PROPOSED  
FRONT & REAR  
ELEVATIONS

A.8



PROPOSED FRONT ELEVATION

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

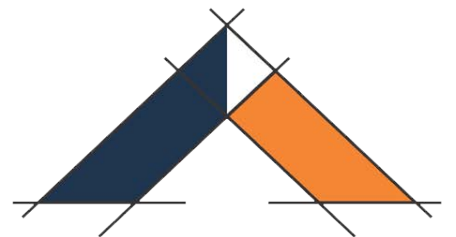


PROPOSED REAR ELEVATION

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

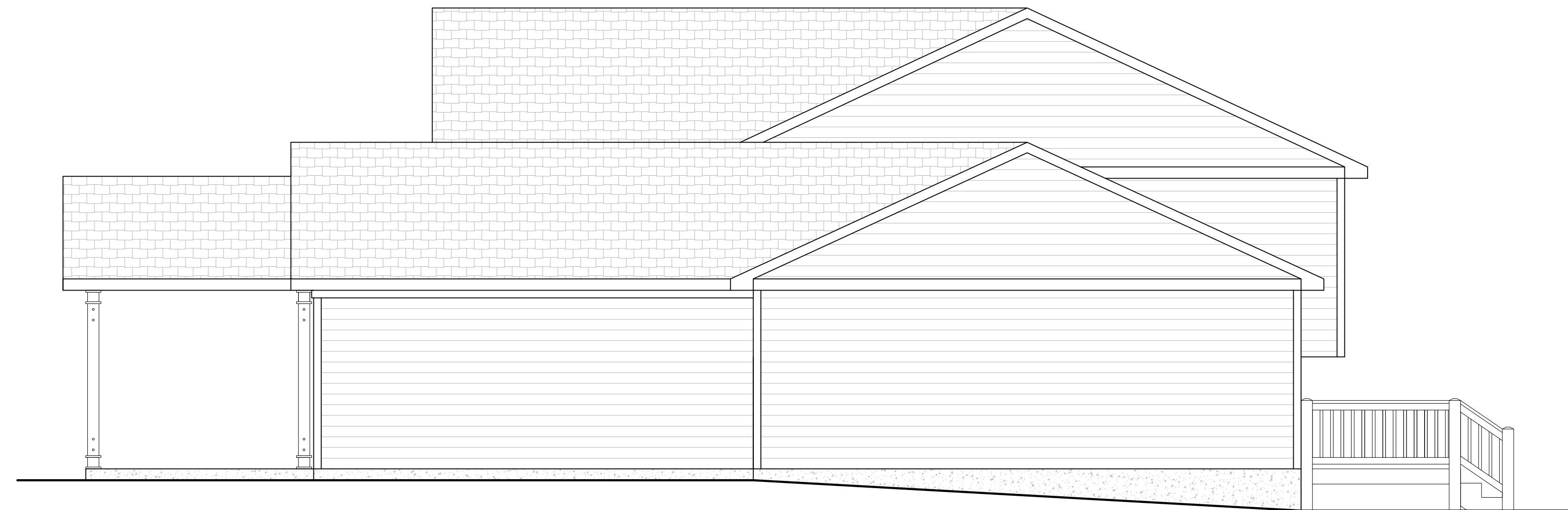


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1 PROPOSED LEFT SIDE ELEVATION  
SCALE: 1/4" = 1' - 0"



1 PROPOSED RIGHT SIDE ELEVATION  
SCALE: 1/4" = 1' - 0"

REMODEL @  
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SNELLVILLE, GA 30078

PROJECT MANAGER

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...  
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SHEET TITLE:

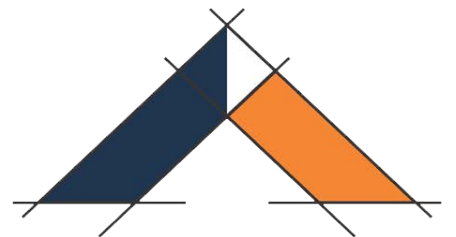
PROPOSED  
RIGHT & LEFT SIDE  
ELEVATIONS

A.9





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DOCUMENT PHASE:

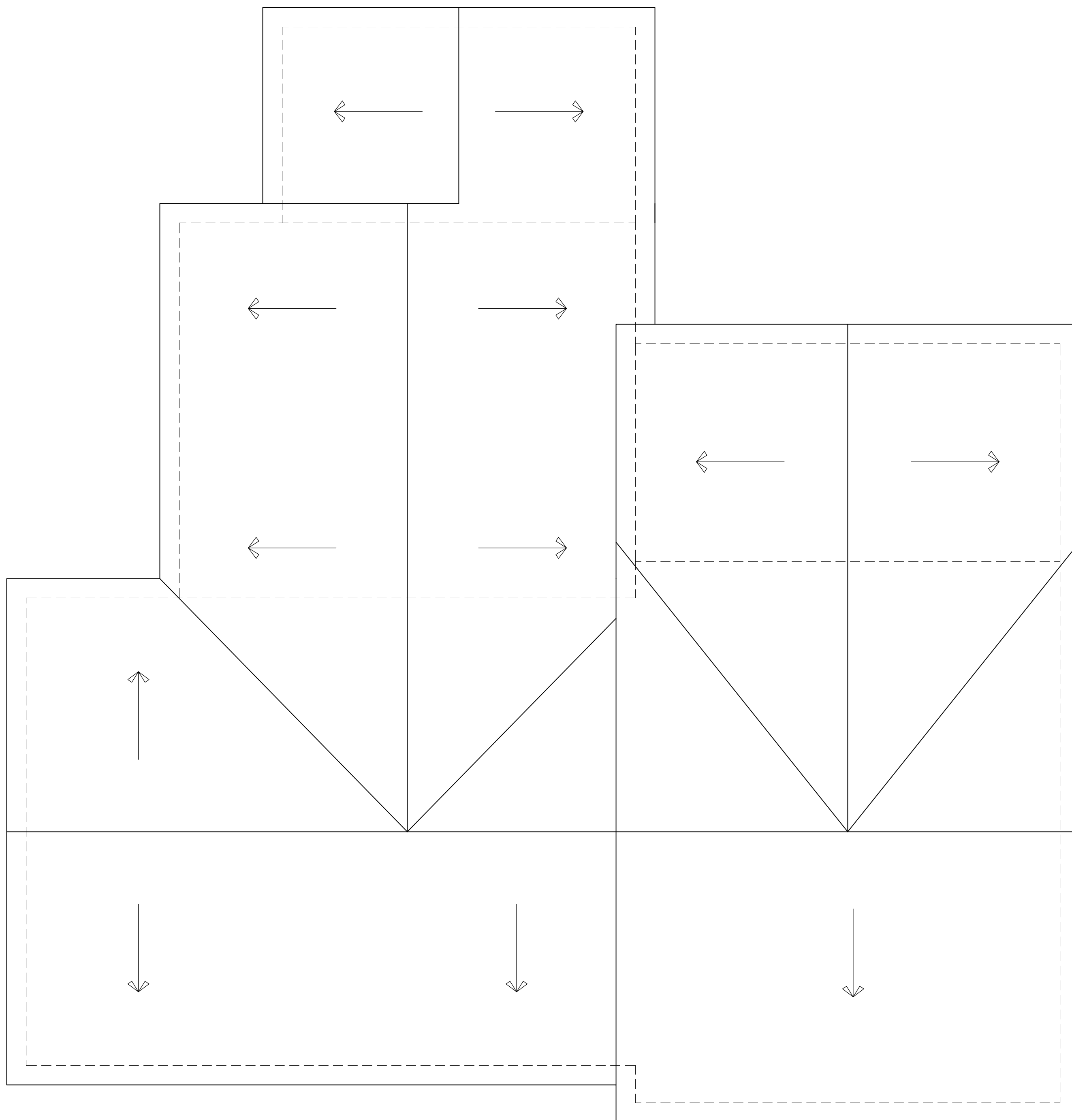
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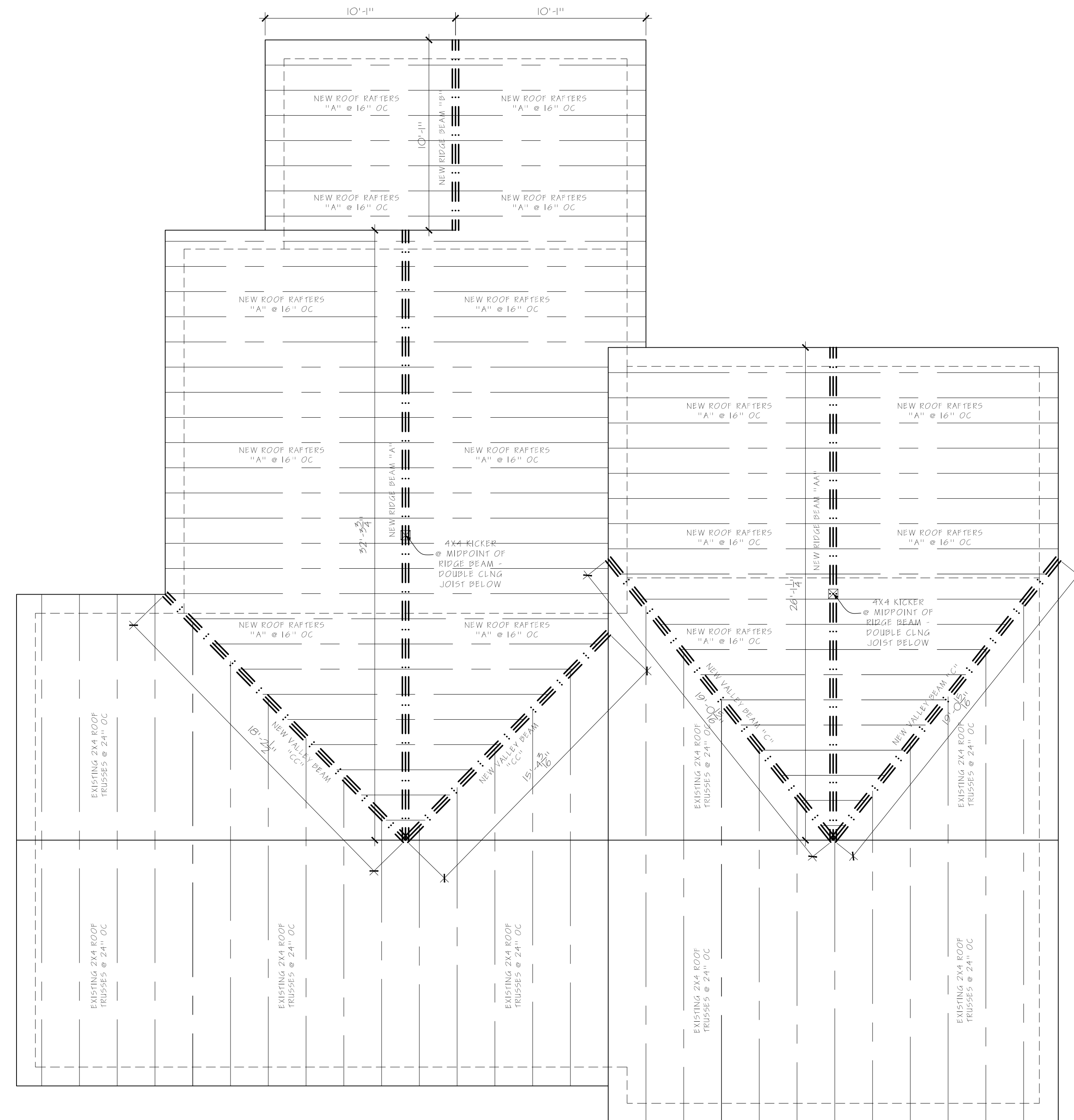
PROPOSED  
ROOF & ROOF FRAMING  
PLANS

A.10



1 PROPOSED ROOF PLAN

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

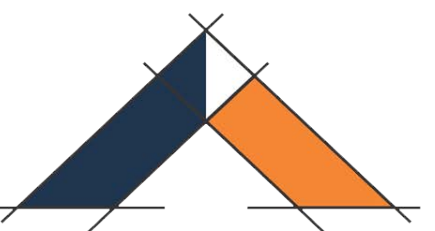


1 PROPOSED ROOF FRAMING PLAN

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

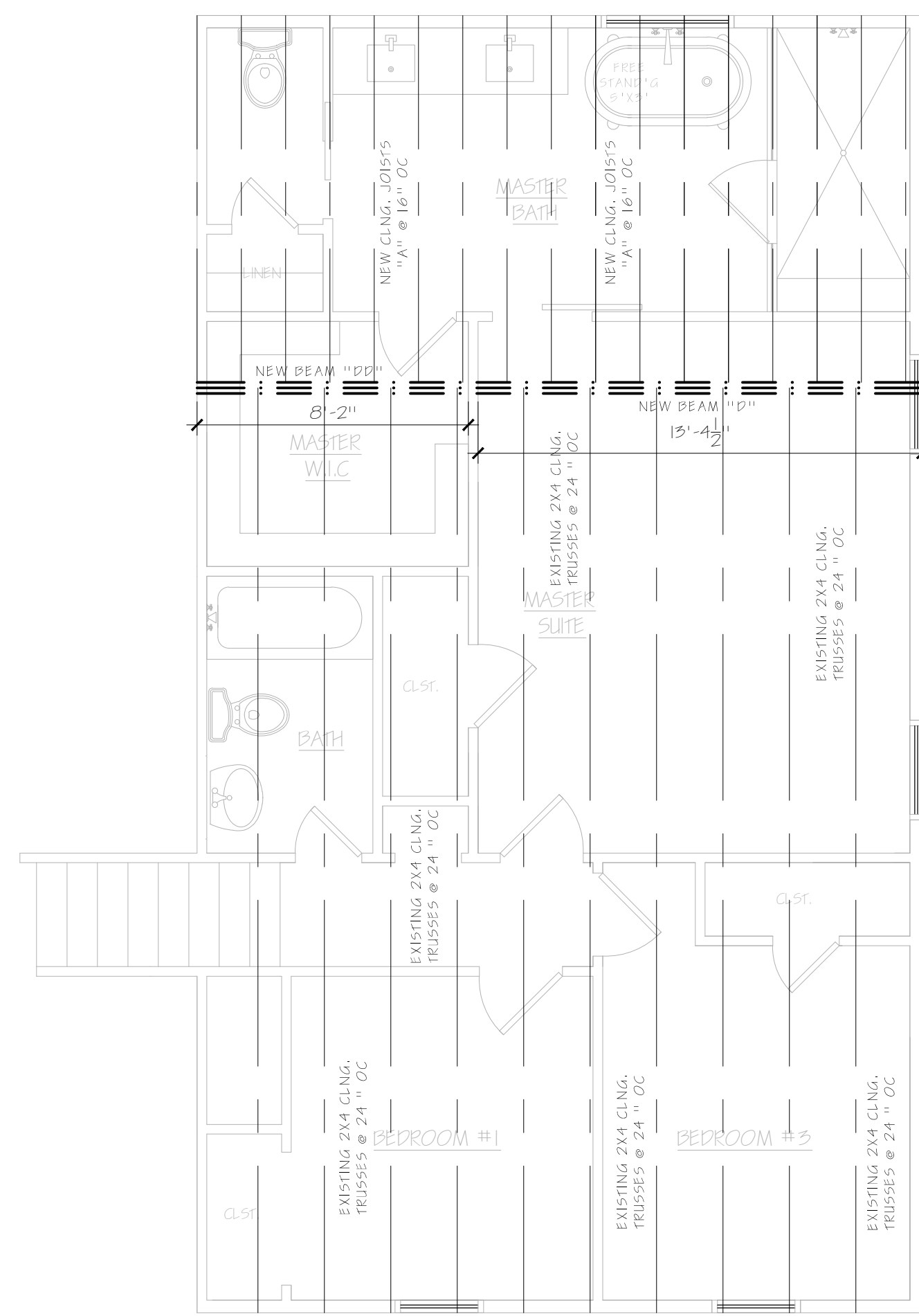


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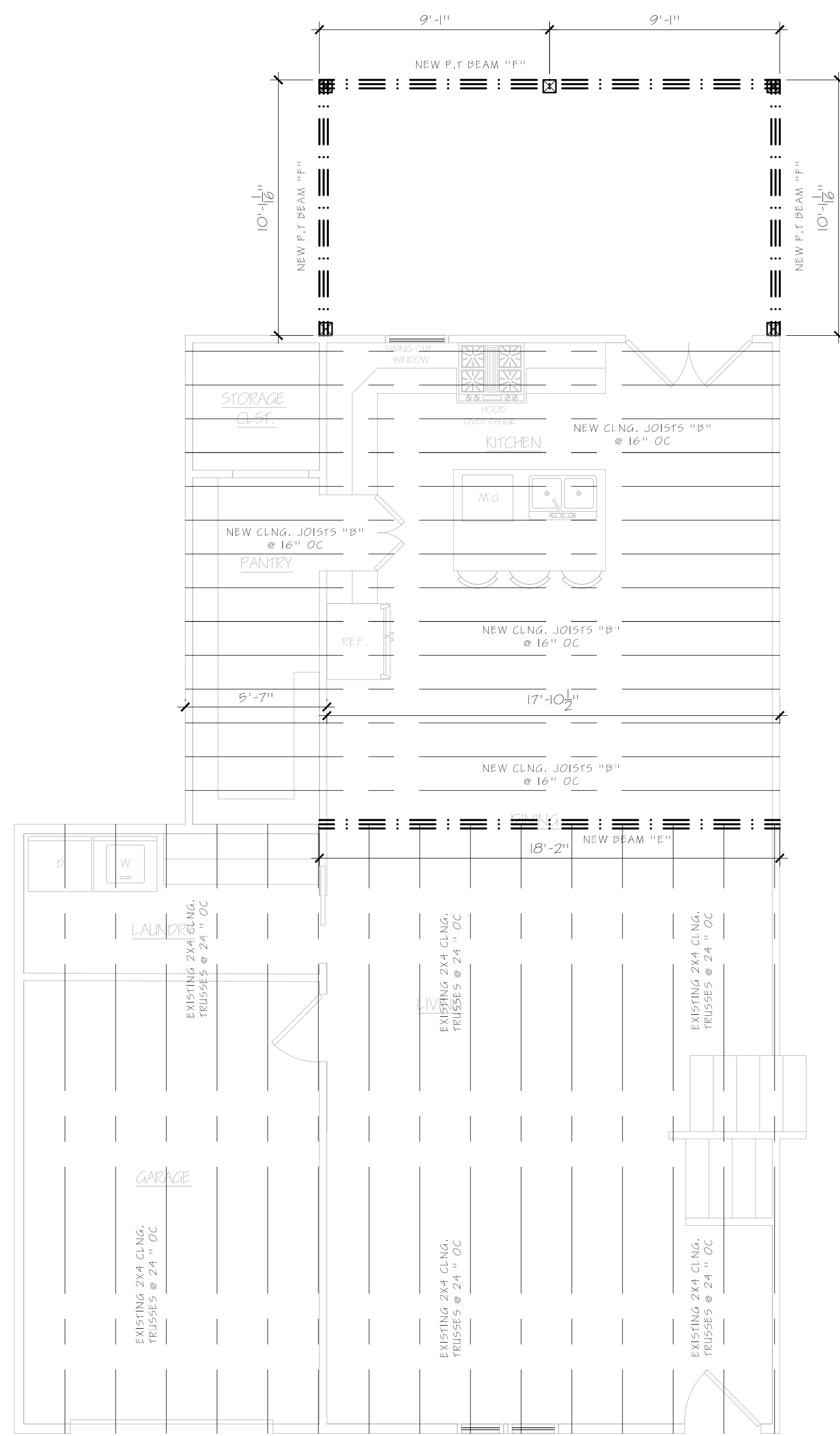


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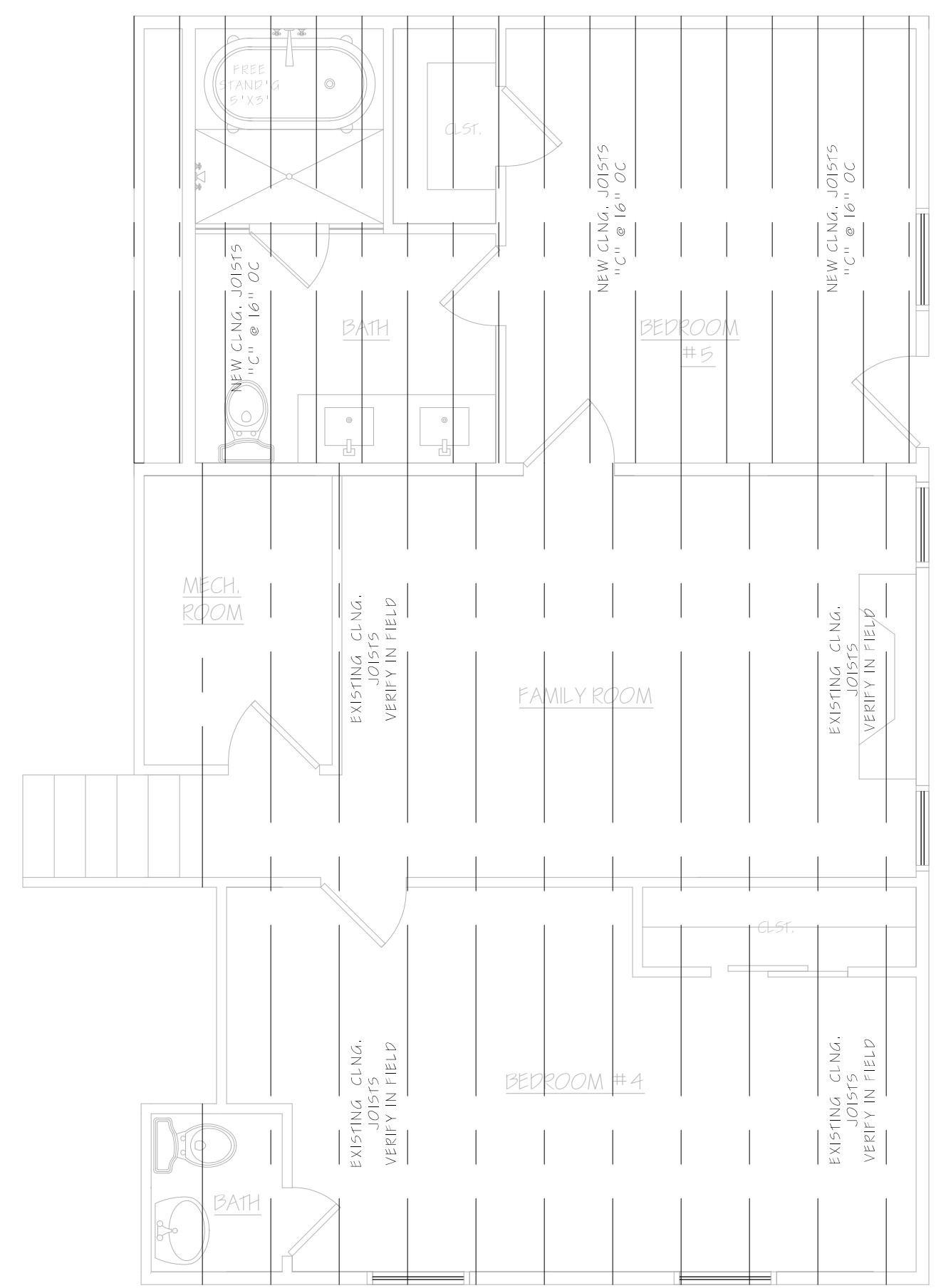
JASON ALBERT - 678.390.4655  
JASON@STUDIOTENDESIGNS



1 PROPOSED UPPER CEILING FRAMING PLAN  
SCALE: 1/4" = 1' - 0"



1 PROPOSED MAIN CEILING FRAMING PLAN  
SCALE: 1/4" = 1' - 0"



1 PROPOSED BASEMENT CEILING FRAMING PLAN  
SCALE: 1/4" = 1' - 0"

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PROJECT MANAGER

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SHEET TITLE:

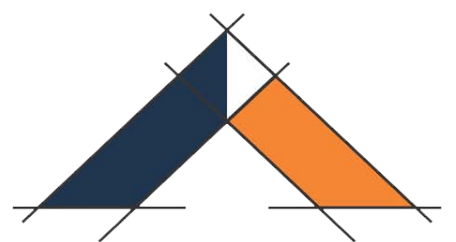
PROPOSED  
CEILING FRAMING PLANS

A.11





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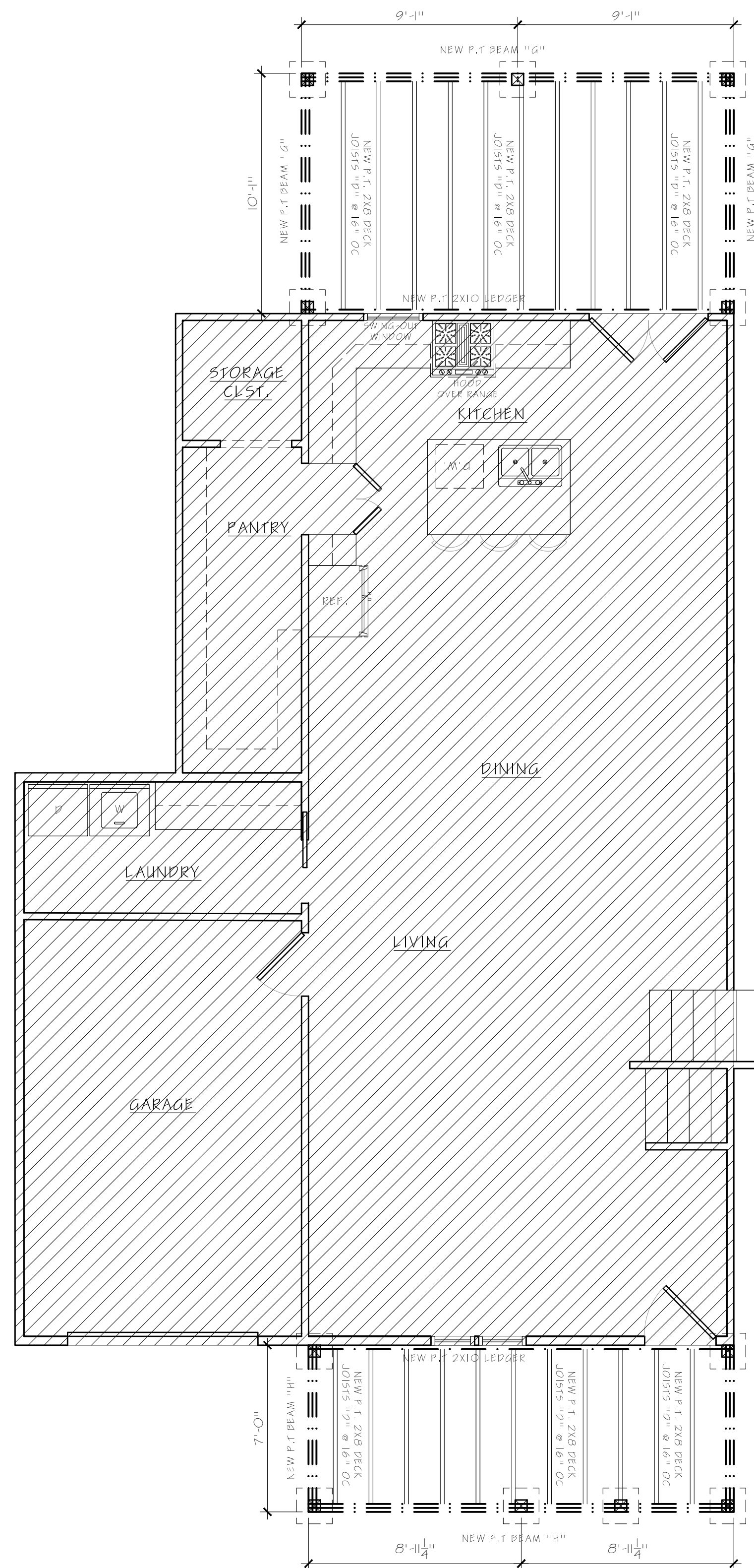
SHEET TITLE:

PROPOSED  
DECK FRAMING PLANS

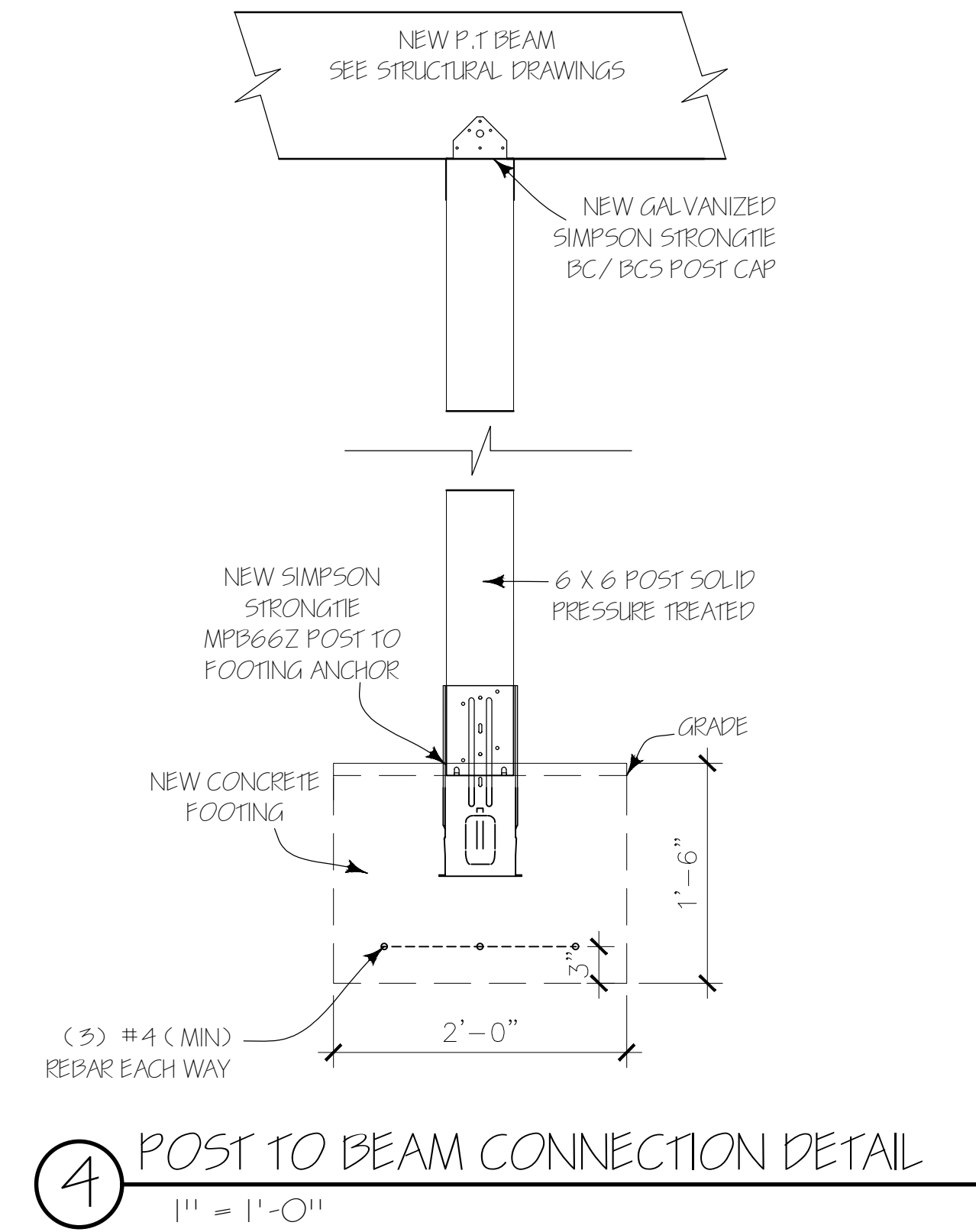
A.12

GENERAL REQUIREMENTS FOR DECK:

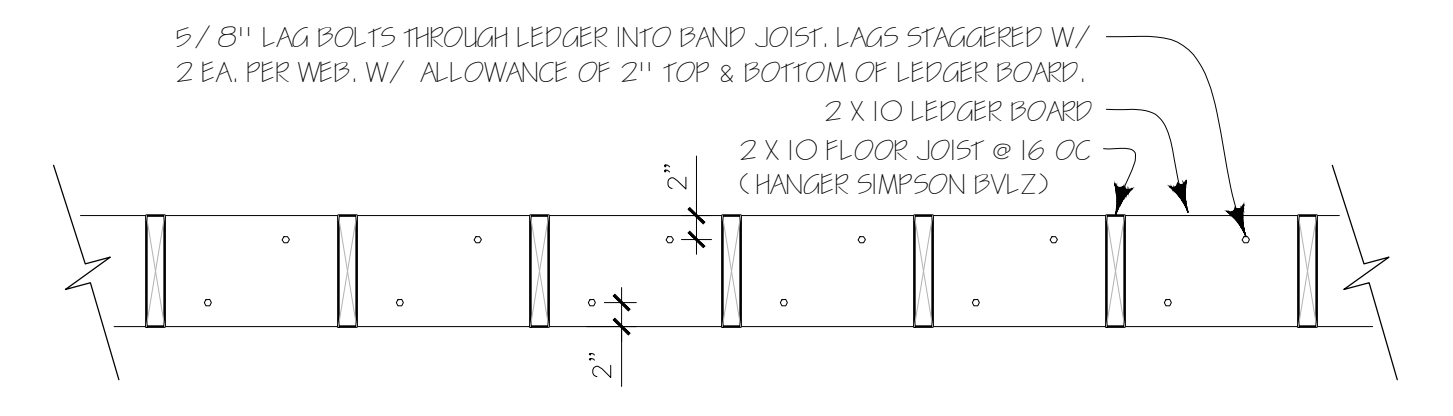
1. LUMBER SHALL BE NATURALLY DURABLE WOOD OR SHALL BE SOUTHERN PINE, GRADE #2 OR BETTER THAT IS PRESSURE PRESERVATIVE-TREATED IN ACCORDANCE WITH AWPA U1 FOR THE SPECIES, PRODUCT, PRESERVATIVE AND END USE. FIELD CUT ENDS, NOTCHES AND DRILLED HOLES OF PRESERVATIVE TREATED WOOD SHALL BE TREATED IN THE FIELD IN ACCORDANCE WITH AWPA M4. PRESERVATIVE-TREATED LUMBER IN CONTACT WITH THE GROUND SHALL BE RATED AS "GROUND-CONTACT." PLEASE NOTE: NOT ALL TREATED LUMBER IS RATED FOR GROUND CONTACT.
2. WOOD-PLASTIC COMPOSITES ARE COMPOSED OF BOUND WOOD AND PLASTIC FIBERS CREATING MATERIAL THAT CAN BE USED AS DECKING AND GUARD ELEMENTS AS PERMITTED HEREIN. PERMISSIBLE WOOD-PLASTIC COMPOSITES MUST BEAR A LABEL INDICATING ITS PERFORMANCE CRITERIA AND COMPLIANCE WITH ASTM D 7032.
3. NAILS SHALL BE RING-SHANKED OR ANNULAR GROOVED.
4. SCREWS AND NAILS SHALL BE HOT-DIPPED GALVANIZED, STAINLESS STEEL OR APPROVED FOR USE WITH PRESSURE TREATED LUMBER.
5. HARDWARE, E.G., JOIST HANGERS, CAST-IN-PLACE POST ANCHORS, MECHANICAL FASTENERS, SHALL BE GALVANIZED WITH 1.85 OZ / SF OF ZINC (G-185 COATING) OR SHALL BE STAINLESS STEEL. USE PRODUCTS SUCH AS "ZMAX" FROM SIMPSON STRONG-TIE OR "TRIPLE ZINC" AND "GOLD COAT" FROM USP.
6. ELECTRICAL RECEPTACLES FOR DECKS SHALL COMPLY WITH THE CURRENTLY APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE.
7. LIGHTING FOR DECKS AND EXTERIOR STAIRS SHALL COMPLY WITH IRC 303.7 STAIRWAY ILLUMINATION.
8. DECKS CONSTRUCTED IN ACCORDANCE WITH THESE DETAILS ARE NOT APPROVED FOR PRIVACY SCREENS, PLANTERS, BUILT-IN SEATING OR HOT TUB INSTALLATIONS.



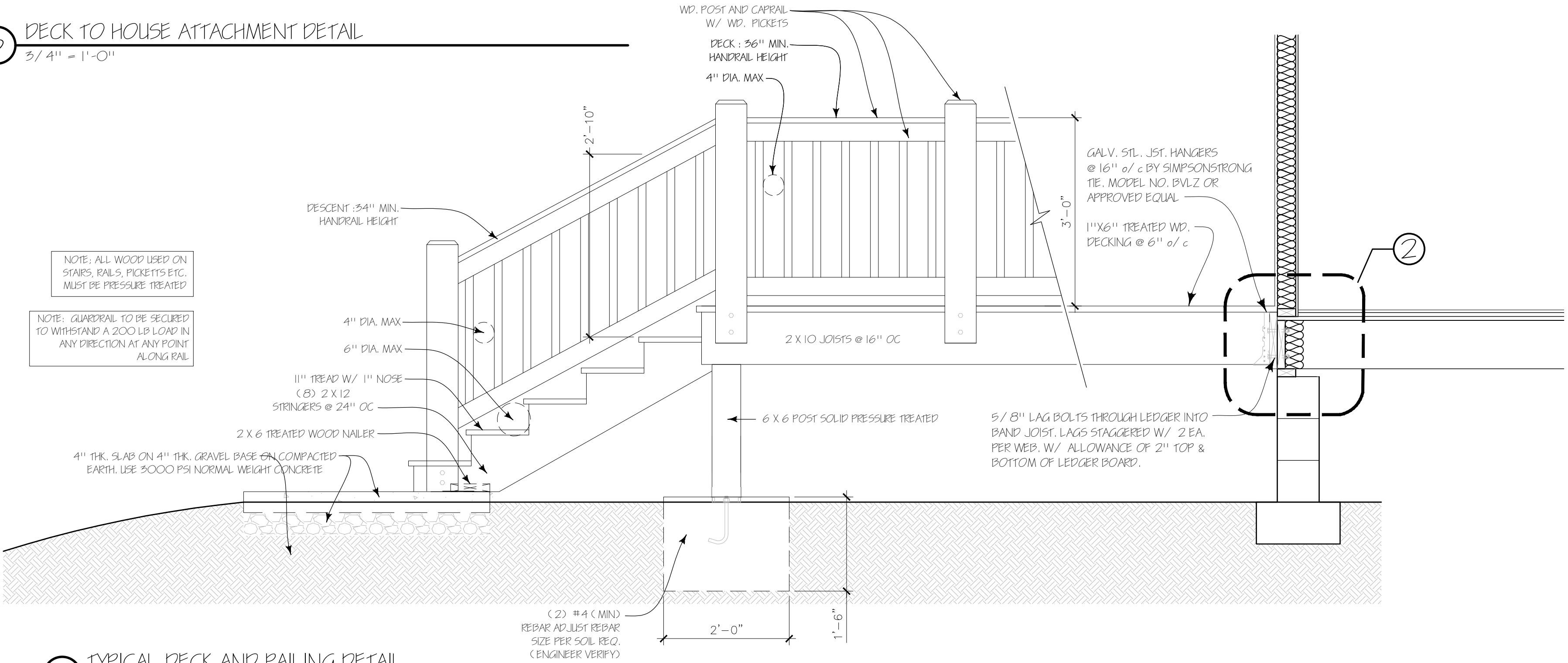
1 PROPOSED DECK FRAMING PLANS  
SCALE: 1/4" = 1'-0"



4 POST TO BEAM CONNECTION DETAIL  
1" = 1'-0"



3 DECK TO HOUSE ATTACHMENT DETAIL  
3/4" = 1'-0"



2 TYPICAL DECK AND RAILING DETAIL  
3/4" = 1'-0"

NOTE: ALL WOOD USED ON STAIRS, RAILS, PICKETS ETC. MUST BE PRESSURE TREATED

NOTE: GUARDRAIL TO BE SECURED TO WITHSTAND A 200 LB LOAD IN ANY DIRECTION AT ANY POINT ALONG RAIL



# ENGINEER DATA

## WIND DESIGN:

BASIC WIND SPEED, ULTIMATE 115 MPH  
 BASIC WIND SPEED, SERVICE 90 MPH  
 ENCLOSURE CLASSIFICATION ENCLOSED BUILDING  
 EXPOSURE C  
 RISK CATEGORY II  
 INTERNAL PRESSURE COEFFICIENT +0.18

## COMPONENTS & CLADDING

AREA	ZONE 1	ZONE 2	ZONE 3	ZONE 4 & 5
50.00	-28.8	-48.4	-72.8	+16.0
10.00	-28.1	-43.2	-60.3	+16.0
20.00	-27.1	-36.4	-43.8	+16.0
50.00	-26.4	-31.5	-31.5	+16.0

AREA	WALL 1	WALL 2	WALL 3	WALL 4 & 5
50.00	-28.6	-35.2	+28.4	
10.00	-27.4	-32.8	+29.2	
20.00	-26.9	-29.7	+29.7	
50.00	-24.7	-27.4	+22.9	

EDGE DISTANCE, a = 5.2 FT.

## SEISMIC DESIGN:

RISK CATEGORY II  
 SHE CLASS C  
 IMPORTANCE FACTOR 1.00  
 SPECIAL RESPONSE ACCELERATION  $S_s = 0.1798$   
 SPECIAL RESPONSE COEFFICIENTS  $R = 0.0895$   
 $S_1 = 0.1183$   
 $S_0 = 0.1425$   
 SEISMIC DESIGN CATEGORY B  
 RESPONSE MODIFICATION FACTOR (C) (INTERMEDIATE REINFORCED MASONRY SHEAR WALLS)  
 6.9 (LIGHT FRAME WOOD WALLS WITH STRUCTURAL WOOD SHEAR PANELS)

SOIL SOIL BEARING CAPACITY 1500 PSF (ASSUME)

## LIVE LOADS

ROOF 20 PSF (WITH TRIBUTARY REDUCTIONS PER CODE)  
 STAIRS AND LANDINGS 100 PSF  
 HANDRAIL / GUARD RAIL CONTROLLING OF 50 PLF OR 200 LB. POINT LOAD LOCATED TO CAUSE MAXIMUM STRESS

## MATERIALS

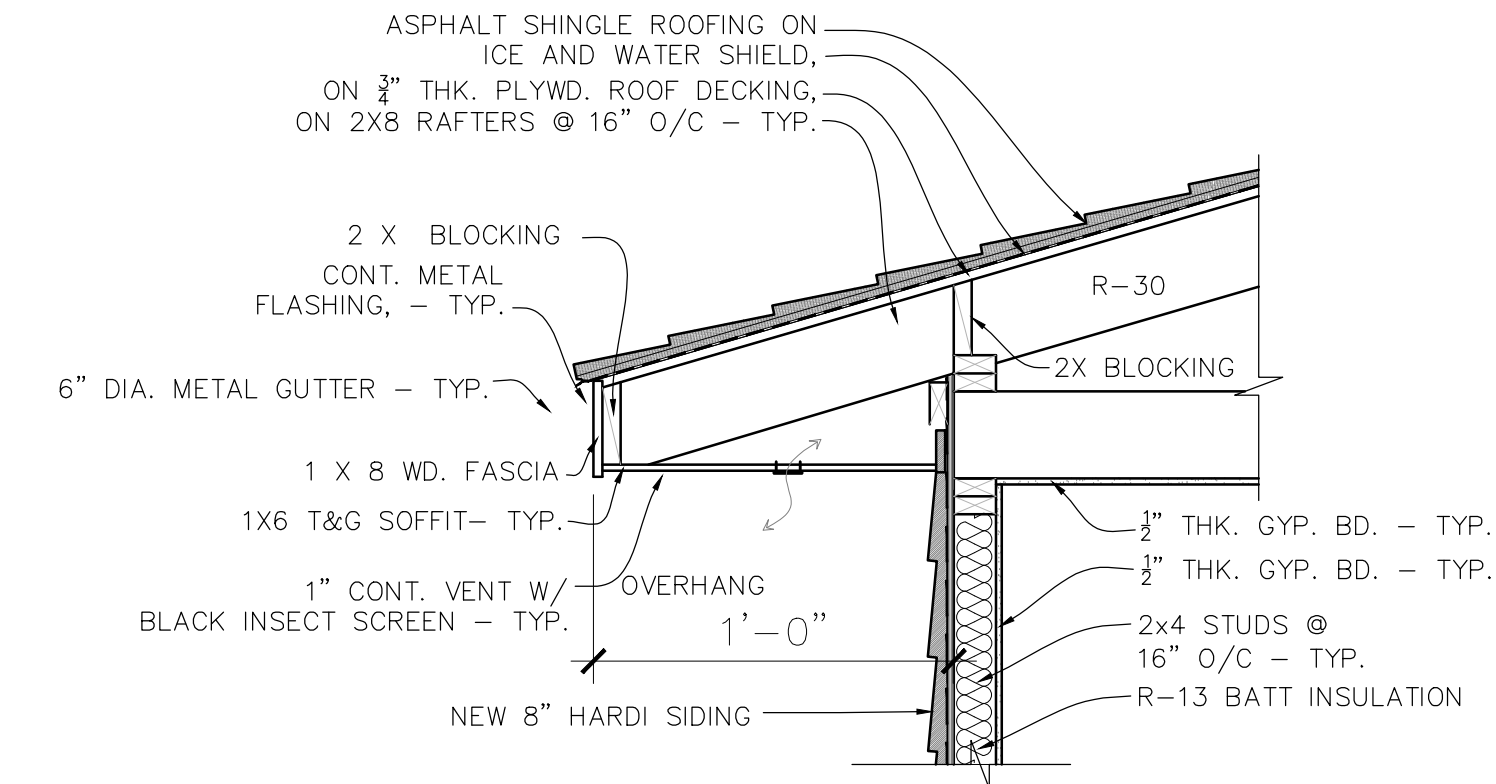
POST-INSTALLED ANCHOR BOLTS ASTM A 193 GRADE B7 W/ COATING AS SPECIFIED IN ESR-2262 OR ESR-2522

## CONCRETE (28 DAYS)

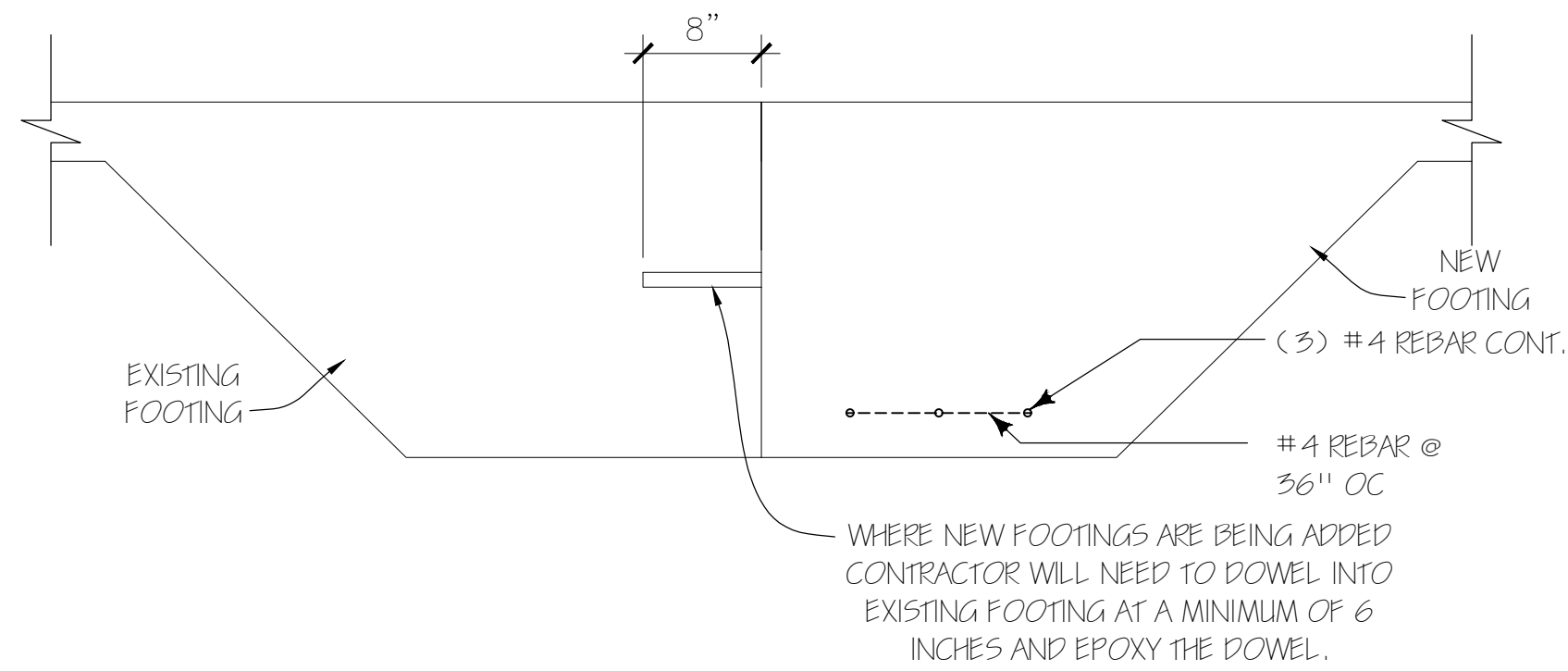
FOOTINGS 5000 PSI  
 WEAR SLAB / SLAB-ON-GRADE 5000 PSI  
 ALL OTHER CONCRETE 5000 PSI  
 REINFORCING STEEL A615 GRADE 60  
 HEATED STEEL A108  
 WELDED WIRE FABRIC A185  
 ADHESIVE ANCHORING HILTI HIT-RE 500-V5 ADHESIVE ANCHOR SYSTEM (ICC ESR-9814)  
 HILTI HIT-HY 70 ADHESIVE ANCHOR SYSTEM FOR CMU (ICC ESR 2682)

FIELD VERIFY ALL OPENINGS BEFORE ORDERING WINDOWS OR DOORS				
NO.	SIZE	TYPE	NOTES	
(D1)	3'-0" x 6'-8"	INTERIOR HOLLOW CORE MASONRY	BARN DOOR	
(D2)	2'-4" x 6'-8"	INTERIOR HOLLOW CORE MASONRY	POCKET DOOR	
(D3)	2'-4" x 6'-8"	INTERIOR HOLLOW CORE MASONRY		
(D4)	2'-0" x 6'-8"	INTERIOR HOLLOW CORE MASONRY		
(D5)	2'-8" x 6'-8"	INTERIOR HOLLOW CORE MASONRY	POCKET DOOR	
(D6)	(2) 2'-6" x 6'-8"	EXTERIOR TEMPERED/INSUL. GLASS		
(D7)	2'-8" x 6'-8"	INTERIOR HOLLOW CORE MASONRY		
(D8)	2'-8" x 6'-8"	INTERIOR HOLLOW CORE MASONRY		
(D9)	2'-8" x 6'-8"	EXTERIOR TEMPERED/INSUL. GLASS		
(D10)	2'-4" x 6'-8"	INTERIOR HOLLOW CORE MASONRY		
(D11)	2'-4" x 6'-8"	INTERIOR HOLLOW CORE MASONRY		

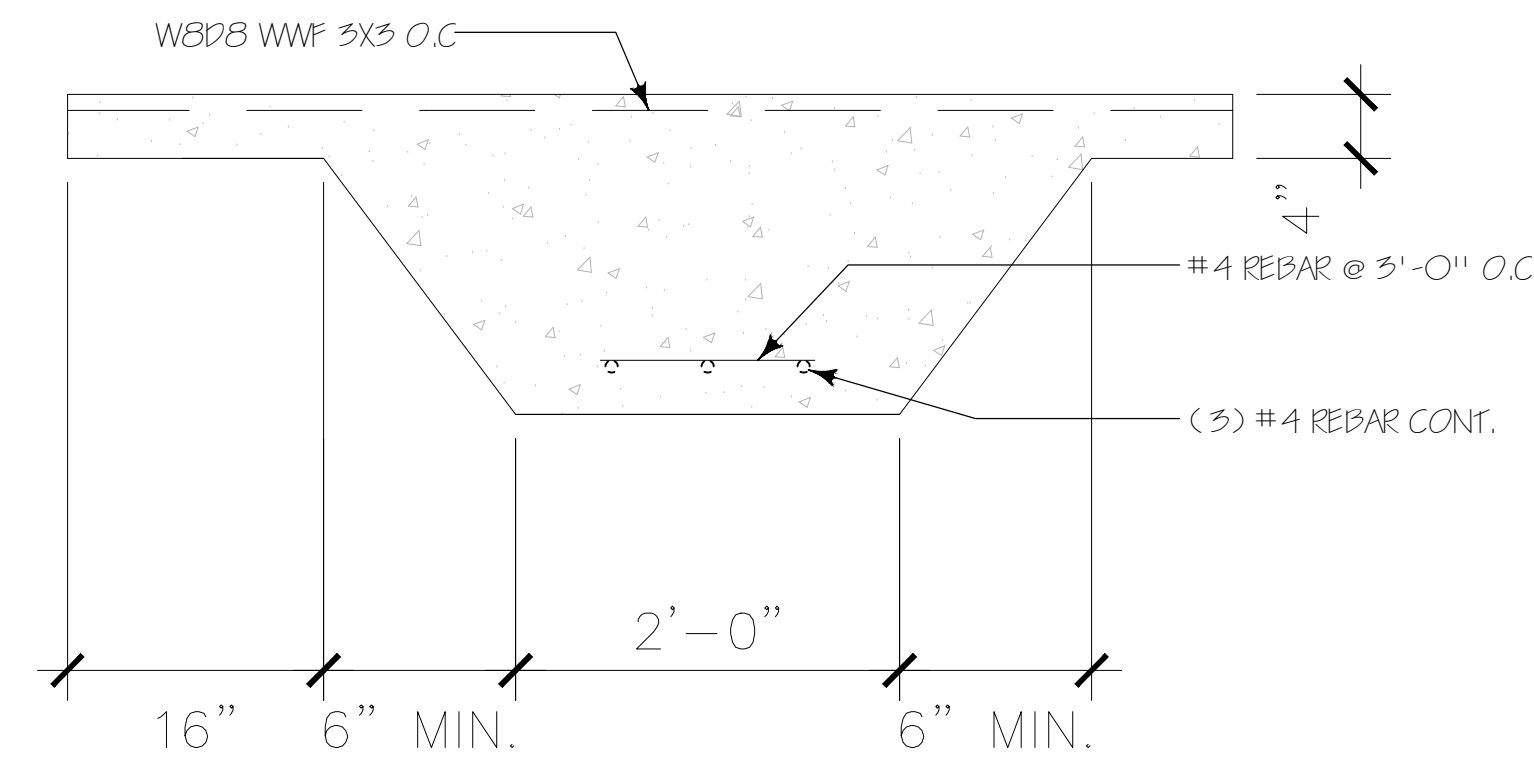
FIELD VERIFY ALL OPENINGS BEFORE ORDERING WINDOWS OR DOORS				
NO.	SIZE	QTY.	TYPE	NOTES
(W1)	4'-0" x 4'-0"	1	FIXED TEMPERED	
(W2)	2'-6" x 3'-0"	1	SWING OUT	
(W3)	3'-0" x 3'-0"	3	DOUBLE HUNG	
(W4)	2'-6" x 3'-0"	2	DOUBLE HUNG	



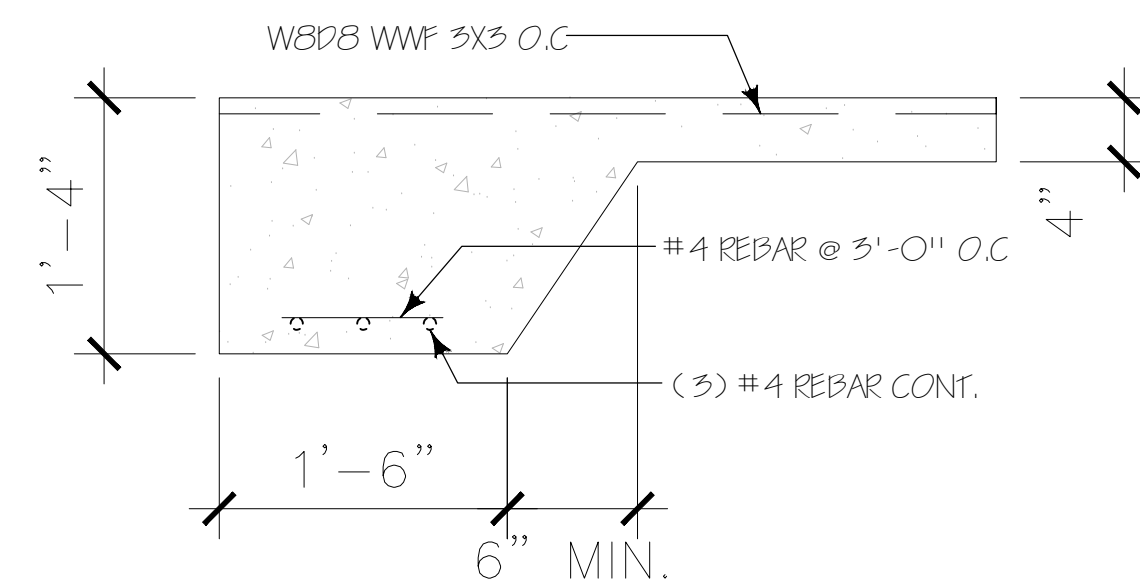
④ TYP. SOFFIT DETAIL  
 3/4" = 1'-0"



① NEW DOWEL DETAIL  
 1" = 1'-0"



② THICKENED SLAB DETAIL  
 1" = 1'-0"

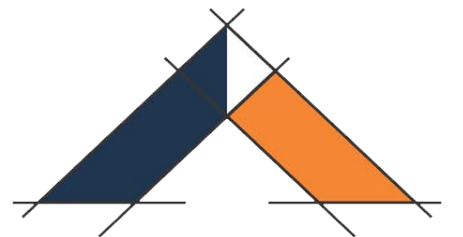


③ SLAB FOOTING DETAIL  
 1" = 1'-0"

ENGINEER STAMP & SEAL:



DRAWINGS BY:  
 STUDIO TEN DESIGNS



Studio Ten  
 ARCHITECTURAL DESIGNS

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REMODEL @  
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DOCUMENT PHASE:

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 CONSTRUCTION

SEPTEMBER 23, 2021

SHEET TITLE:

PROPOSED  
 SECTIONS & DETAILS

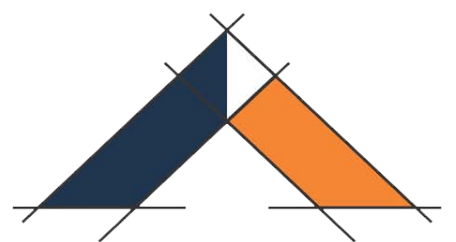
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A.13





DRAWINGS BY:  
STUDIO TEN DESIGNS



**Studio Ten**  
ARCHITECTURAL DESIGNS

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REMODEL @  
1776 LITCHFIELD RD SW  
SNELLVILLE, GA 30078

PROJECT MANAGER

DRAWN BY:  
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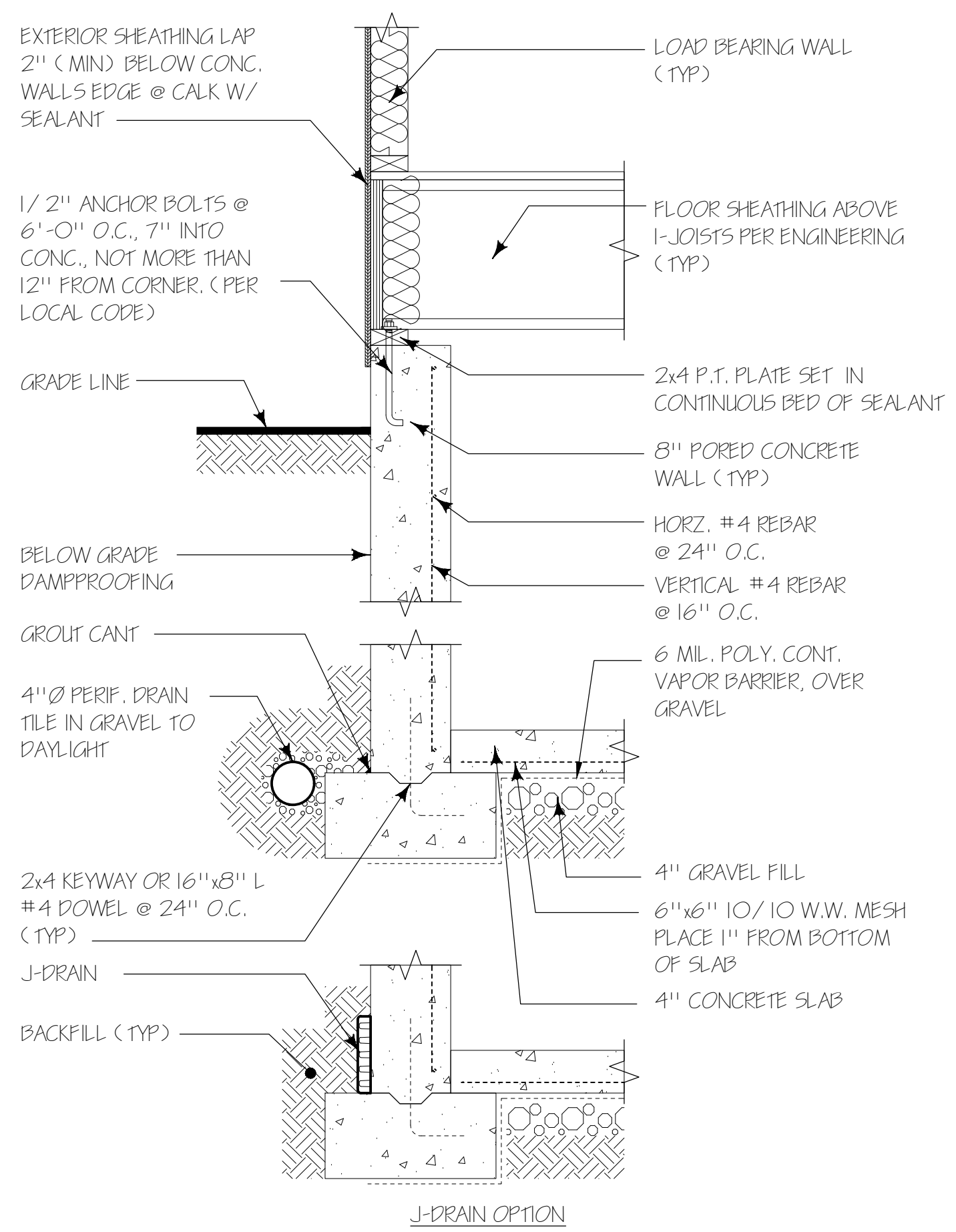
DOCUMENT PHASE:

RELEASED FOR  
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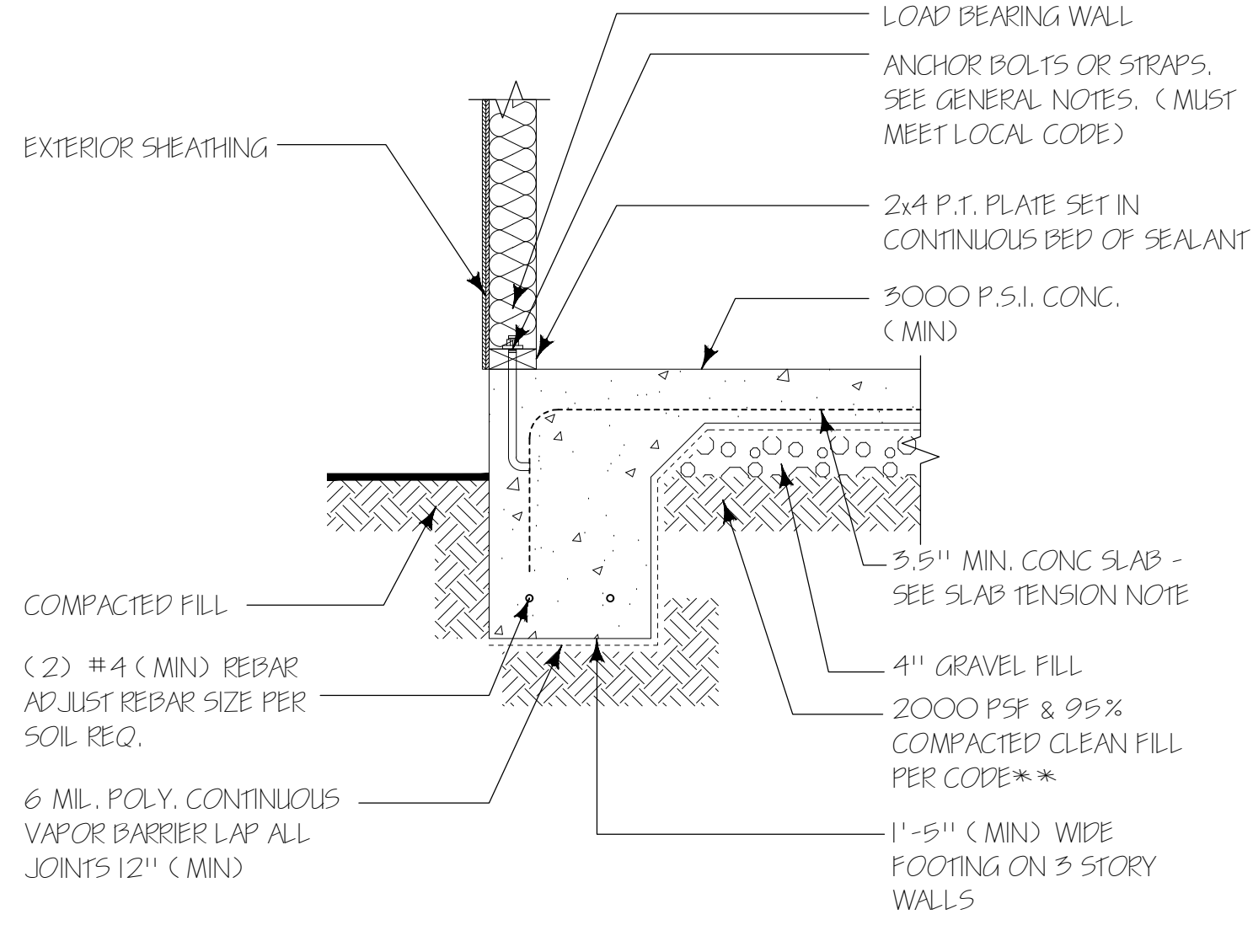
SEPTEMBER 23, 2021  
SHEET TITLE:

PROPOSED  
SECTIONS & DETAILS

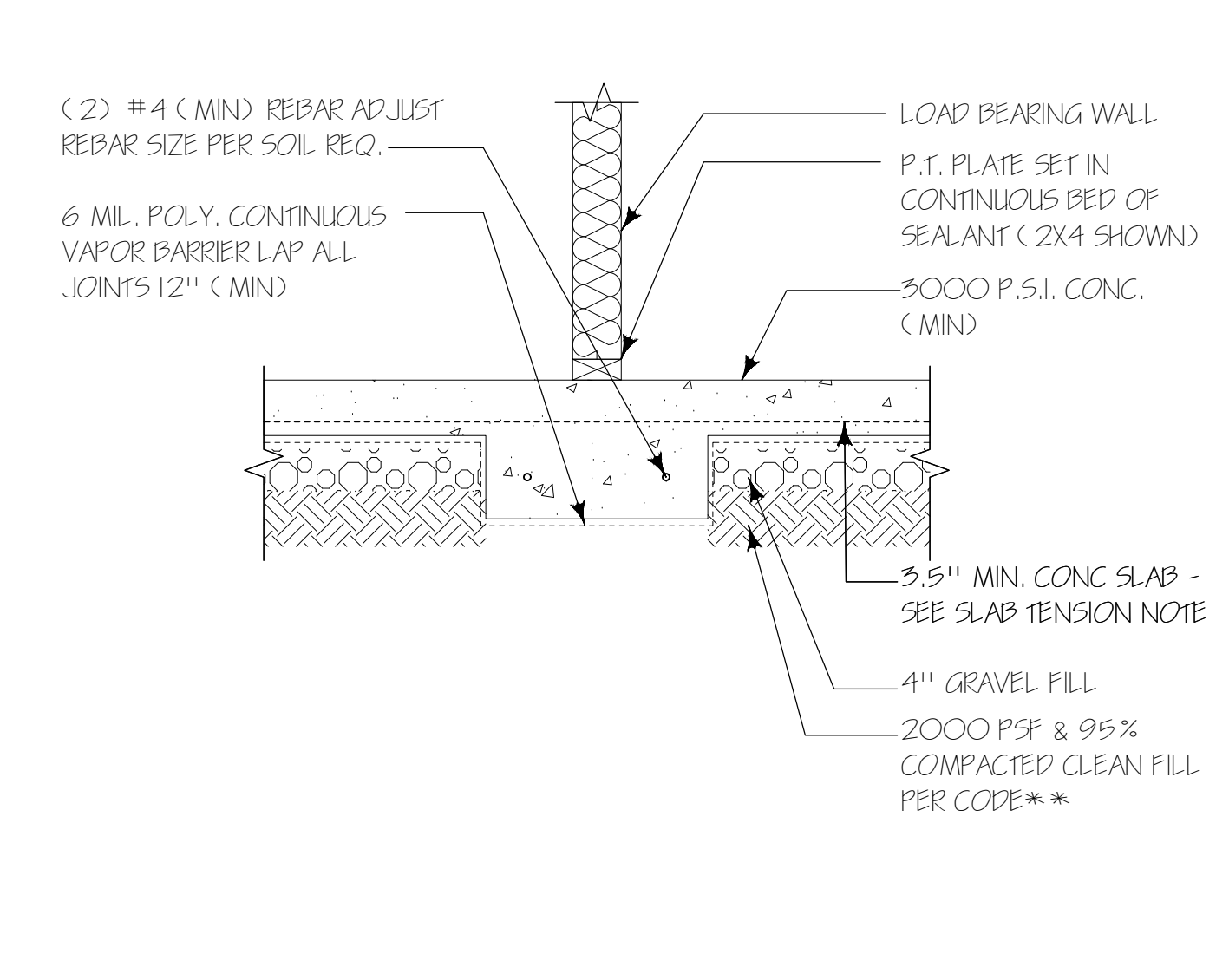
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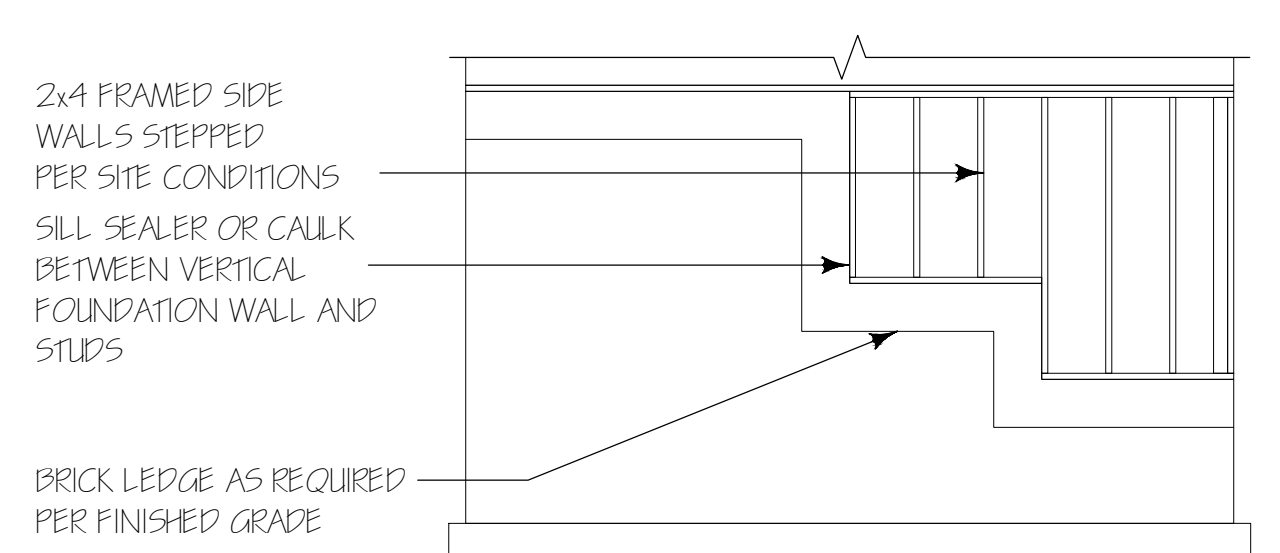
① TYP. FOUNDATION WALL (12" WALL)  
1" = 1'-0"



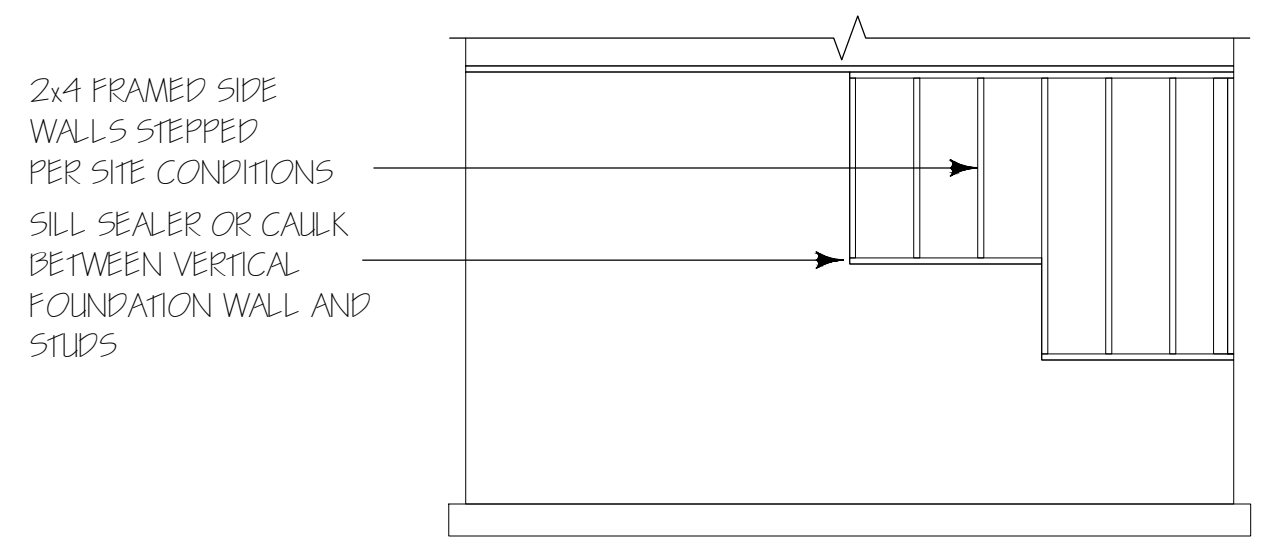
② TYP. TURN DOWN  
1" = 1'-0"



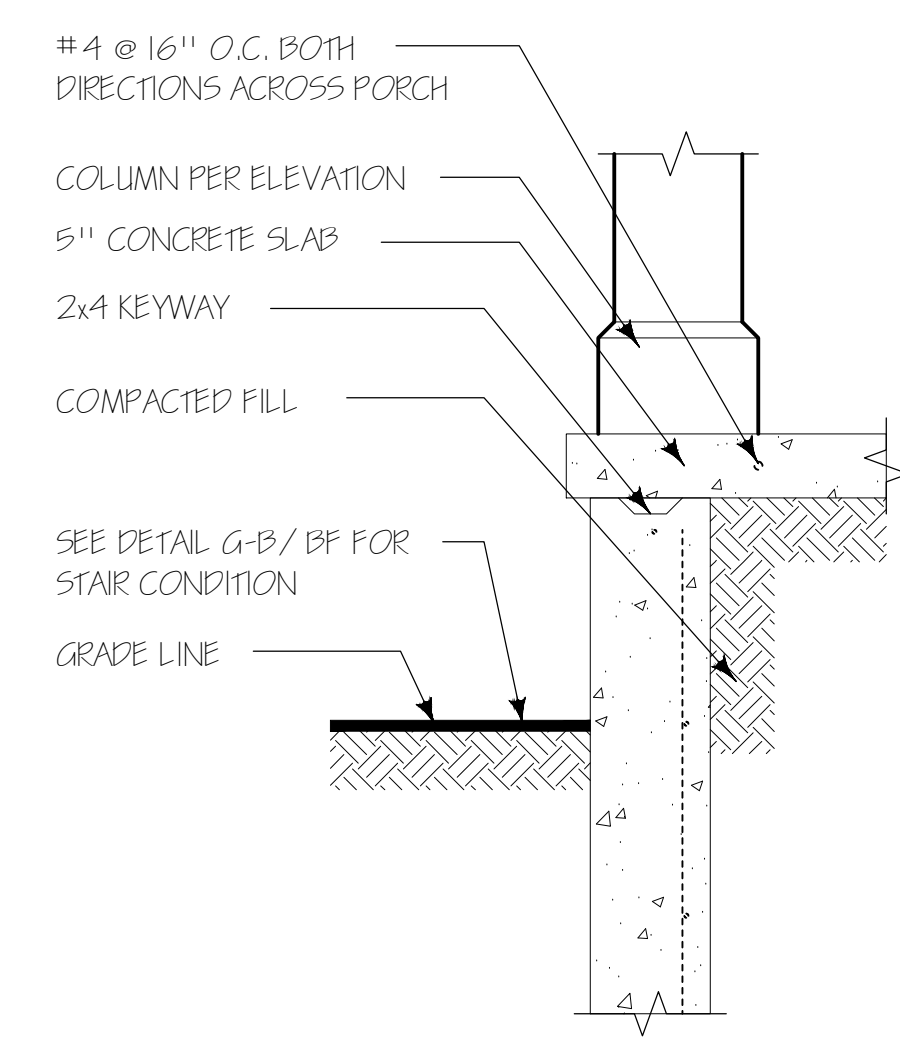
③ TYP. BR'G WALL (THICKENED SLAB)  
1" = 1'-0"



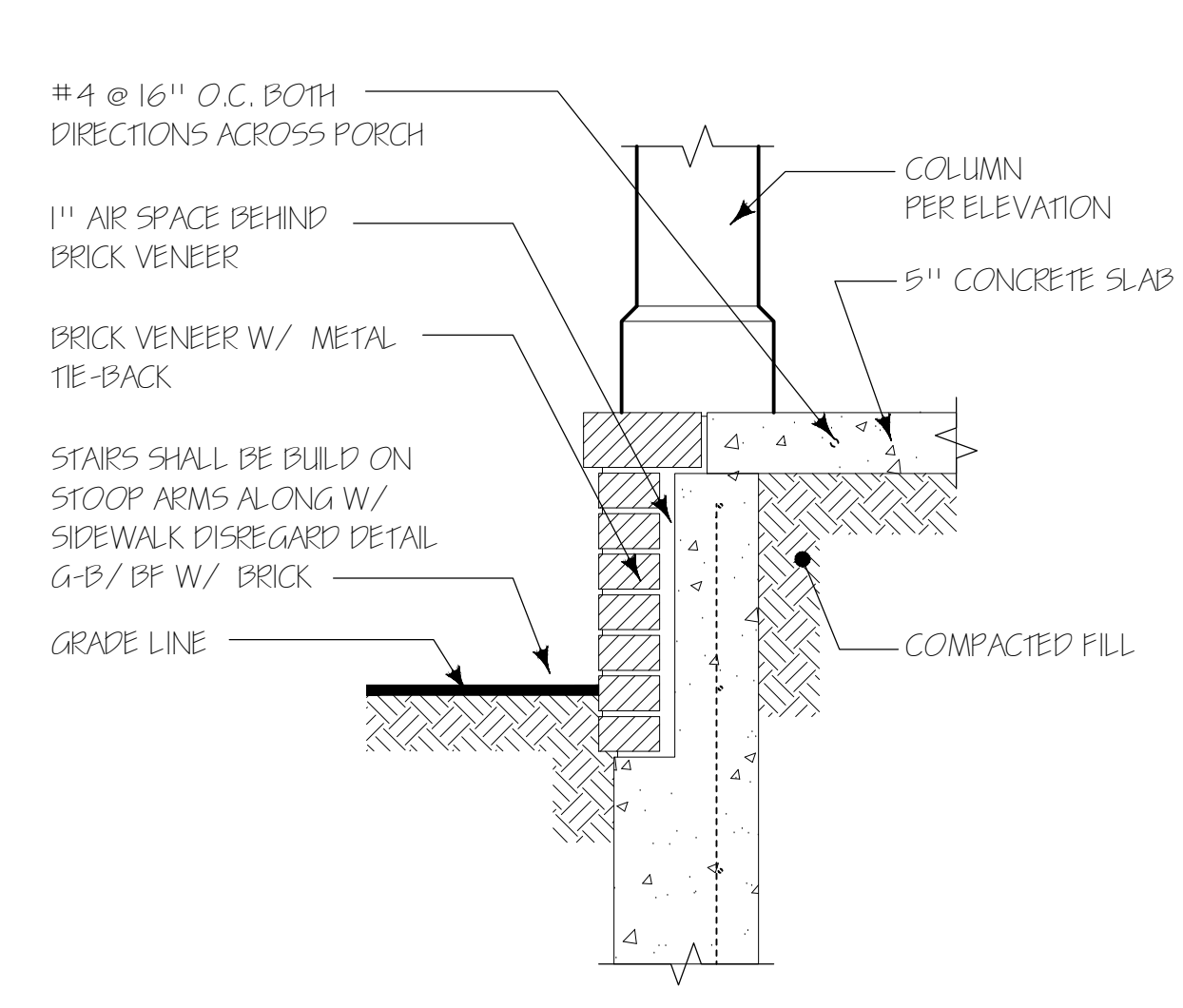
4.A STEPPED WALL ELEV. W/ BRICK LEDGE  
1" = 1'-0"



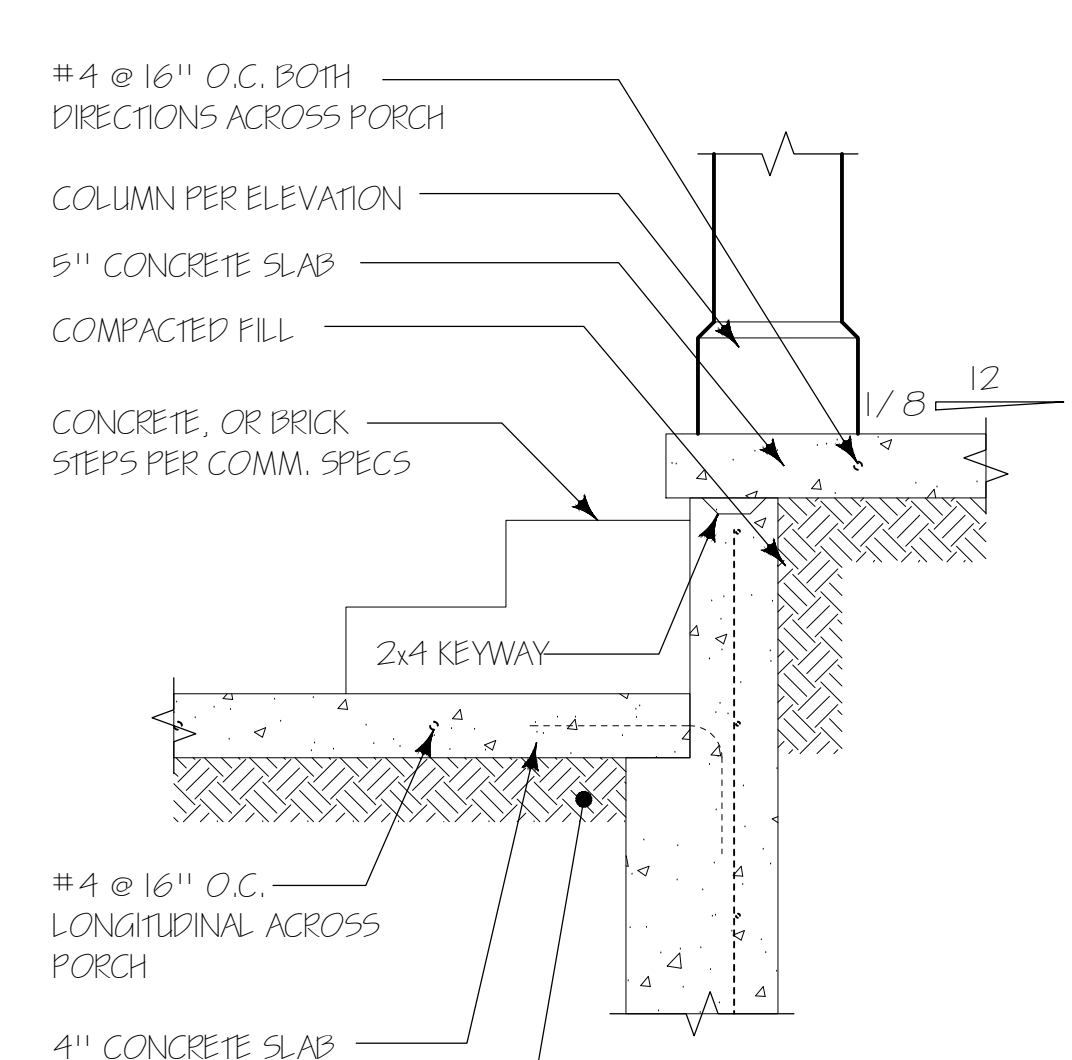
4.B STEPPED WALL ELEV.  
1" = 1'-0"



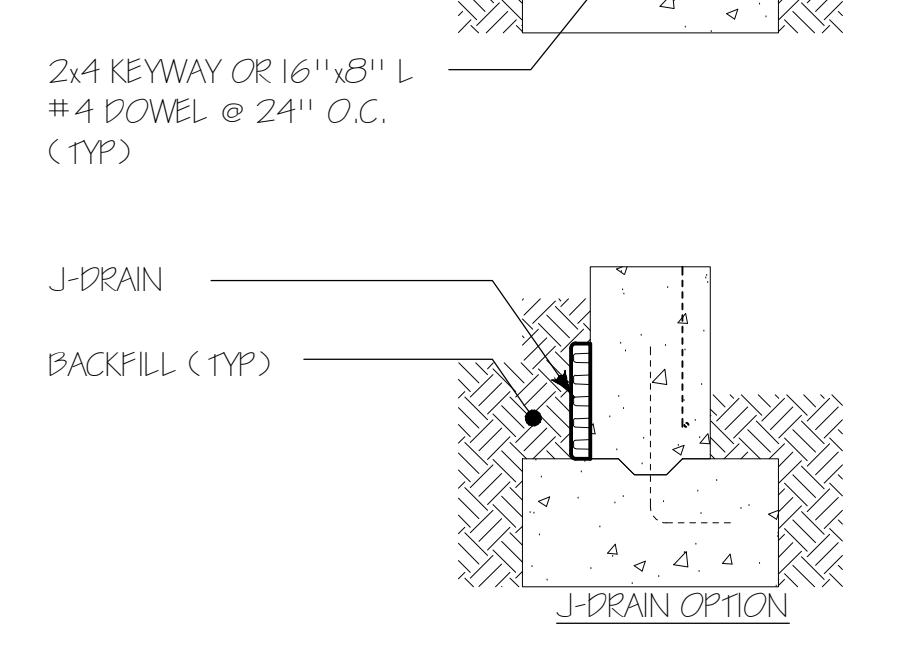
5.A WITH OUT BRICK  
1" = 1'-0"



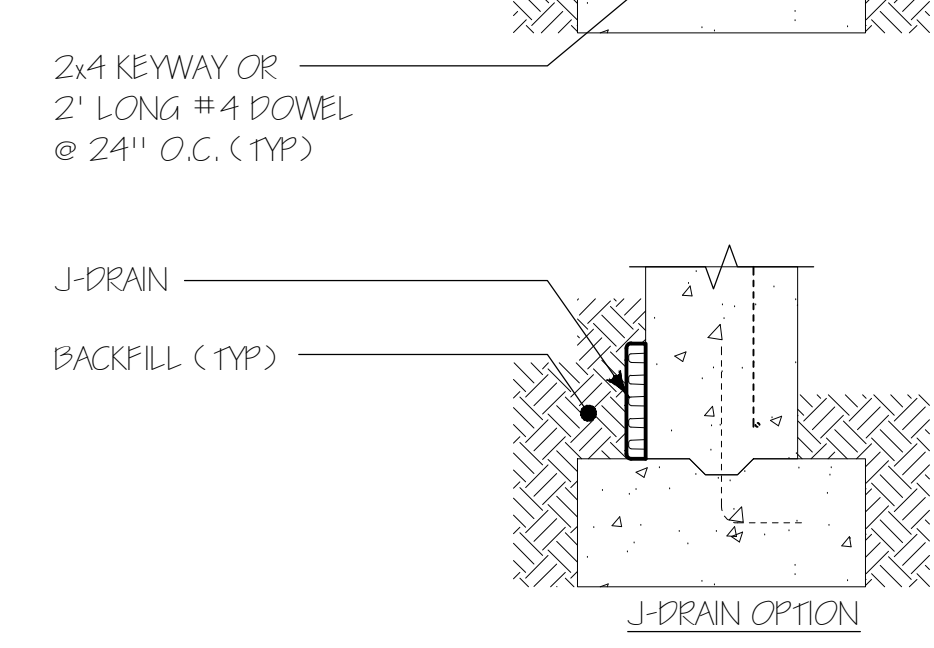
5.B WITH BRICK  
1" = 1'-0"



5.C @ STEPS  
1" = 1'-0"



⑤ FRONT PORCH FOUNDATION WALL (12" WALL)  
1" = 1'-0"



**STRUCTURAL NOTES**

GENERAL:  
ALL FLASHING THAT WILL BE IN CONTACT W/ MASONRY, CEMENTITIOUS MATERIALS AND PRESSURE TREATED WOOD SHALL BE CORROSIVE RESISTANT

4" GRAVEL FILL OR COMPACTED FILL:  
\*\* 4" GRAVEL FILL UNDER MONO-SLAB MAYBE OMITTED WHEN SLAB IS PLACED ON WELL DRAINED SOIL CLASSIFIED GROUP 1 PER IRC R405.1 (CLASSIFICATIONS GW, SW, GM, OR SM)

SLAB TENSION  
1.5 LB / YD FIBERMESH OR 6" x 6" 10 / 10 W.W. MESH PLACE 1" FROM BOTTOM OF SLAB AS SHOWN IN DETAILS (NOTE THAT THIS IS A NON-STRUCTURAL ELEMENT)

ANCHOR BOLTS OR STRAPS  
1/2" DIA @ 6'-0" O.C., 7" INTO CONC., NOT MORE THAN 12" FROM CORNERS, AND WITHIN 12" OF PLATE ENDS OR STRAPS MAY BE USED IN PLACE OF BOLTS PER MANUF. SPECIFICATIONS (SIMPSON MAB15 @ 2'-9" O.C.) OR EQUIVALENT

BRICK NOTES  
\*\* PROVIDE MIN 1" AIR SPACE BETWEEN BRICK AND SHEATHING  
\*\* PROVIDE REQUIRED WEEP HOLES @ MIN 35" O.C PER R703.2  
\*\* PROVIDE REQUIRED WATER-RESISTIVE BARRIER OVER SHEATHING PER R703.2



Member Name	Results	Current Solution	Comments
Ridge Beam "A"	Passed	2 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL	
Ridge Beam "AA"	Passed	2 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL	
Ridge Beam "B"	Passed	1 piece(s) 1 3/4" x 9 1/2" 2.0E Microllam® LVL	
Valley Beam "C"	Passed	1 piece(s) 1 3/4" x 9 1/2" 2.0E Microllam® LVL	
Valley Beam "CC"	Passed	1 piece(s) 1 3/4" x 9 1/2" 2.0E Microllam® LVL	
Rafter "A"	Passed	1 piece(s) 2 x 6 SPF No.1/No.2 @ 16" OC	

Member Name	Results	Current Solution	Comments
Beam "D"	Passed	2 piece(s) 2 x 8 SPF No.1/No.2	
Beam "DD"	Passed	2 piece(s) 2 x 8 SPF No.1/No.2	
Joist "A"	Passed	1 piece(s) 2 x 6 SPF No.1/No.2 @ 16" OC	

Member Name	Results	Current Solution	Comments
Beam "E"	Passed	4 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL	
Beam "E Steel Option"	Passed	1 piece(s) W12x26 (A992) ASTM Steel	
Beam "F"	Passed	2 piece(s) 2 x 8 SPF No.1/No.2	
Joist "B"	Passed	1 piece(s) 11 7/8" T108 230 @ 16" OC	

Member Name	Results	Current Solution	Comments
Joist "C"	Passed	1 piece(s) 2 x 12 SPF No.1/No.2 @ 16" OC	

Member Name	Results	Current Solution	Comments
Beam "G"	Passed	2 piece(s) 2 x 10 SPF No.1/No.2	
Beam "H"	Passed	2 piece(s) 2 x 10 SPF No.1/No.2	
Joist "D"	Passed	1 piece(s) 2 x 8 SPF No.1/No.2 @ 16" OC	

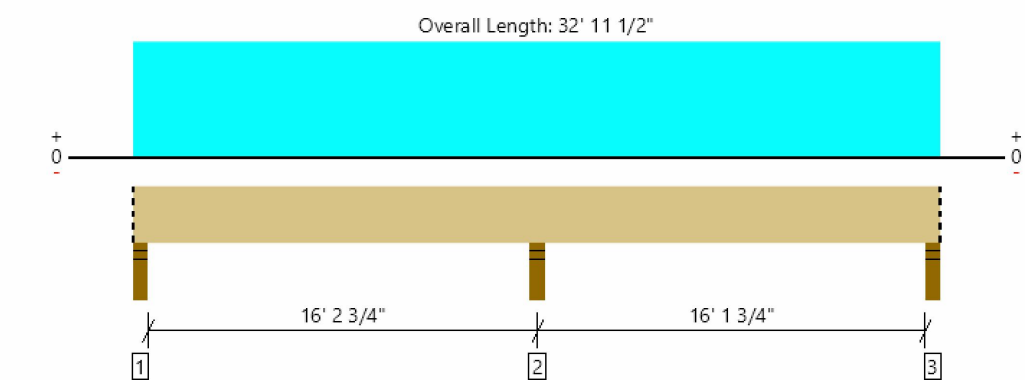
FortiWEB Software Operator	Job Notes
C William Hamilton Inspection Wizards LLC (678) 770-4079 @hamilton@inspectionwizards.com	



11/19/2021 9:49:03 AM UTC  
FortiWEB v3.2  
File Name: 1776 Litchfield Road SW

MEMBER REPORT  
Proposed Roof Framing Plan, Ridge Beam "A"  
2 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL

PASSED



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	5855 @ 16' 6 1/4"	5950 (4,000')	Passed (98%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	2600 @ 15' 4 3/8"	9871	Passed (26%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	-9551 @ 16' 6 1/4"	22310	Passed (43%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.167 @ 7' 6 5/8"	0.818	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.262 @ 7' 4 3/8"	1.090	Passed (L/749)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof  
Member Type : Residential  
Building Use : Residential  
Design Methodology : ASD  
Member Pitch : 0/12

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Stud wall - SPF	3.50"	3.50"	1.50"	771	1124	1895	Blocking
2 - Stud wall - SPF	4.00"	4.00"	3.94"	2490	3364	5854	None
3 - Stud wall - SPF	3.50"	3.50"	1.50"	764	1118	1882	Blocking

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	25' 8" o/c	
Bottom Edge (Lu)	15' 8" o/c	

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.25)	Comments
0 - Self Weight (PLF)	0 to 32' 11 1/2"	N/A	12.1	--	
1 - Uniform (PSF)	0 to 32' 11 1/2" (Front)	11'	10.0	15.0	Default Load

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The product application, input design loads, dimensions and support information have been provided by FortiWEB Software Operator

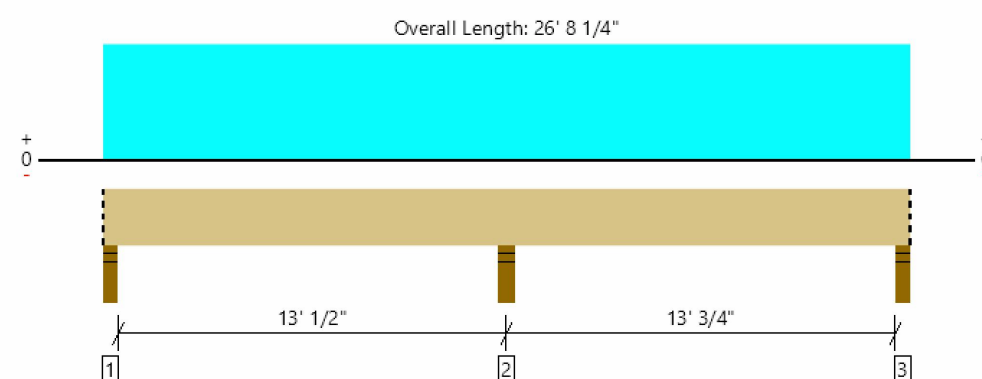
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FortiWEB v3.2, Engine: V8.2.0.17, Data: V8.1.0.16  
File Name: 1776 Litchfield Road SW

MEMBER REPORT  
Proposed Roof Framing Plan, Ridge Beam "A"  
2 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL

PASSED



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	4729 @ 13' 4"	5950 (4,000')	Passed (79%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	2034 @ 14' 5 7/8"	9871	Passed (21%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	-6232 @ 13' 4"	22310	Passed (28%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.074 @ 20' 6 11/16"	0.659	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.117 @ 20' 8 7/16"	0.879	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof  
Member Type : Flush Beam  
Building Use : Residential  
Design Methodology : ASD  
Member Pitch : 0/12

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Stud wall - SPF	3.50"	3.50"	1.50"	623	910	1533	Blocking
2 - Stud wall - SPF	4.00"	4.00"	3.98"	2012	2718	4730	None
3 - Stud wall - SPF	3.50"	3.50"	1.50"	625	912	1537	Blocking

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	26' 8" o/c	
Bottom Edge (Lu)	24' 3" o/c	

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.25)	Comments
0 - Self Weight (PLF)	0 to 26' 8 1/4"	N/A	12.1	--	
1 - Uniform (PSF)	0 to 26' 8 1/4" (Front)	11'	10.0	15.0	Default Load

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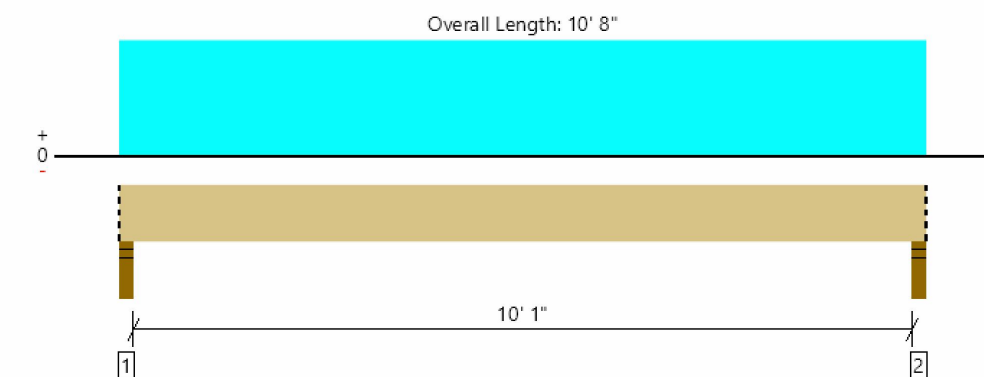
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File Name: 1776 Litchfield Road SW

MEMBER REPORT  
Proposed Roof Framing Plan, Ridge Beam "B"  
1 piece(s) 1 3/4" x 9 1/2" 2.0E Microllam® LVL

PASSED



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	1226 @ 2"	2603 (3,500')	Passed (47%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	977 @ 1' 1"	3948	Passed (25%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	3066 @ 5' 4"	7359	Passed (42%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.151 @ 5' 4"	0.344	Passed (L/821)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.257 @ 5' 4"	0.517	Passed (L/482)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof  
Member Type : Flush Beam  
Building Use : Residential  
Design Methodology : ASD  
Member Pitch : 0/12

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Stud wall - SPF	3.50"	3.50"	1.65"	506	720	1226	Blocking
2 - Stud wall - SPF	3.50"	3.50"	1.65"	506	720	1226	Blocking

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	10' 8" o/c	
Bottom Edge (Lu)	10' 8" o/c	

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.25)	Comments
0 - Self Weight (PLF)	0 to 10' 8"	N/A	4.8	--	
1 - Uniform (PSF)	0 to 10' 8" (Front)	9'	10.0	15.0	Default Load

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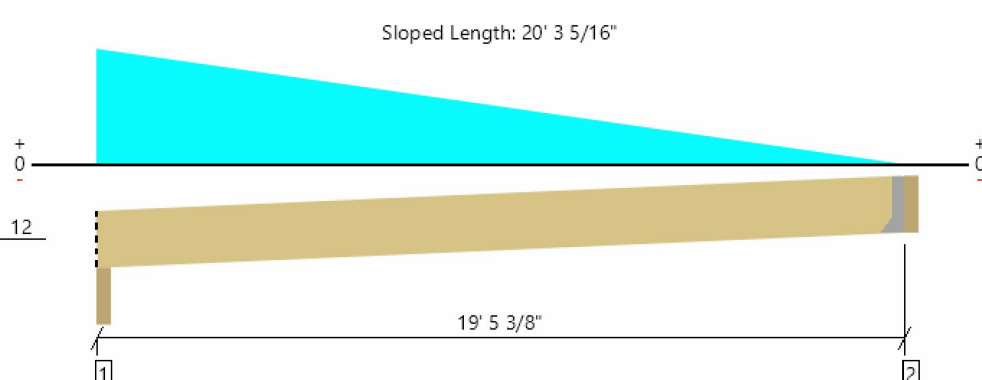
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File Name: 1776 Litchfield Road SW

MEMBER REPORT  
Proposed Roof Framing Plan, Valley Beam "C"  
1 piece(s) 1 3/4" x 9 1/2" 2.0E Microllam® LVL

PASSED



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	1291 @ 2"	2603 (3,500')	Passed (50%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	1089 @ 1' 3/4"	3948	Passed (28%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	4717 @ 8' 4 9/16"	7359	Passed (64%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.584 @ 9' 5 5/16"	0.950	Passed (L/407)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	1.335 @ 9' 5 9/16"	1.321	Passed (L/178)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof  
Member Type : Flush Beam  
Building Use : Residential  
Design Methodology : ASD  
Member Pitch : 2.83/12

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Beveled Plate - SPF	3.50"	3.50"	1.74"	719	572	1291	Blocking
2 - Hanger on 9 1/2" SPF beam	3.50"	Hanger	1.50"	375	279	654	See note 1

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	7' 2" o/c	
Bottom Edge (Lu)	20' o/c	

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.25)	Comments
0 - Self Weight (PLF)	0 to 19' 5 3/8"	N/A	4.8	--	
1 - Tapered (PLF)	0 to 19' 5 3/8"	N/A	99.8 to 0.0	87.5 to 0.0	Generated from Roof Geometry

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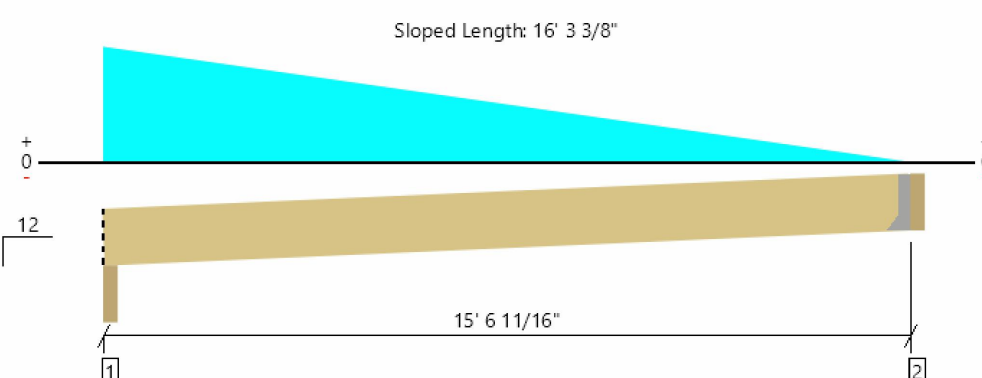
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File Name: 1776 Litchfield Road SW

MEMBER REPORT  
Proposed Roof Framing Plan, Valley Beam "CC"  
1 piece(s) 1 3/4" x 9 1/2" 2.0E Microllam® LVL

PASSED



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	1080 @ 2"	2603 (3,500')	Passed (42%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	871 @ 1' 3/4"	3948	Passed (22%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	3130 @ 6' 8 5/8"	7359	Passed (43%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.320 @ 7' 6 15/16"	0.791	Passed (L/593)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.572 @ 7' 7 1/16"	1.054	Passed (L/331)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof  
Member Type : Flush Beam  
Building Use : Residential  
Design Methodology : ASD  
Member Pitch : 3.83/12

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	469	611	1080	Blocking
2 - Hanger on 9 1/2" SPF beam	3.50"	Hanger	1.50"	246	296	542	See note 1

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	12' o/c	
Bottom Edge (Lu)	18' o/c	



**MEMBER REPORT**  
Proposed Roof Framing Plan, Rafter "A"  
1 piece(s) 2 x 6 SPF No.1/No.2 @ 16" OC

Member Length: 13' 11 5/16"

All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	241 @ 2 1/2"	2221 (3.50")	Passed (11%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	214 @ 8 11/16"	928	Passed (23%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	739 @ 6' 6 1/2"	1030	Passed (72%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.442 @ 6' 6 1/2"	0.668	Passed (L/362)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.815 @ 6' 6 1/2"	0.890	Passed (L/197)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof  
Member Type : Joist  
Building Use : Residential  
Building Code : IRC 2018  
Design Methodology : ASD  
Member Pitch : 4/12

- Deflection criteria: LL (L/240) and TL (L/180).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- A 15% increase in the moment capacity has been added to account for repetitive member usage.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	110	131	241	Blocking
2 - Beveled Plate - SPF	3.50"	3.50"	1.50"	110	131	241	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	8' 7" o/c	
Bottom Edge (Lb)	13' 9" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Load	Location (Side)	Spacing	Dead (0.90)	Roof Live (non-snow: 1.25)	Comments
1 - Uniform (PSF)	0 to 13' 1"	16"	12.0	15.0	Default Load

**Weyerhaeuser Notes**  
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**MEMBER REPORT**  
Proposed Upper Ceiling Framing Plan, Beam "D"  
2 piece(s) 2 x 8 SPF No.1/No.2

Overall Length: 13' 11 1/2"

All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	780 @ 2"	4463 (3.50")	Passed (17%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	680 @ 10 3/4"	2447	Passed (28%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	2593 @ 6' 11 3/4"	2875	Passed (90%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.371 @ 6' 11 3/4"	0.454	Passed (L/411)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.650 @ 6' 11 3/4"	0.681	Passed (L/252)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof  
Member Type : Flush Beam  
Building Use : Residential  
Building Code : IRC 2018  
Design Methodology : ASD  
Member Pitch : 0/12

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Stud wall - SPF	3.50"	3.50"	1.50"	335	445	780	Blocking
2 - Stud wall - SPF	3.50"	3.50"	1.50"	335	445	780	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	7' 10" o/c	
Bottom Edge (Lb)	14' o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.25)	Comments
0 - Self Weight (PLF)	0 to 13' 11 1/2"	N/A	5.5	--	
1 - Uniform (PSF)	0 to 13' 11 1/2" (Front)	4' 3"	10.0	15.0	Default Load

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**MEMBER REPORT**  
Proposed Upper Ceiling Framing Plan, Beam "DD"  
2 piece(s) 2 x 8 SPF No.1/No.2

Overall Length: 8' 9"

All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	489 @ 2"	4463 (3.50")	Passed (11%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	389 @ 10 3/4"	2447	Passed (16%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	900 @ 4' 4 1/2"	2875	Passed (34%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.054 @ 4' 4 1/2"	0.261	Passed (L/999)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.095 @ 4' 4 1/2"	0.421	Passed (L/999)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof  
Member Type : Flush Beam  
Building Use : Residential  
Building Code : IRC 2018  
Design Methodology : ASD  
Member Pitch : 0/12

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Stud wall - SPF	3.50"	3.50"	1.50"	210	279	489	Blocking
2 - Stud wall - SPF	3.50"	3.50"	1.50"	210	279	489	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	8' 9" o/c	
Bottom Edge (Lb)	8' 9" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 8' 9"	N/A	5.5	--	
1 - Uniform (PSF)	0 to 8' 9" (Front)	4' 3"	10.0	15.0	Default Load

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**MEMBER REPORT**  
Proposed Upper Ceiling Framing Plan, Joist "A"  
1 piece(s) 2 x 6 SPF No.1/No.2 @ 16" OC

Overall Length: 9' 10"

All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	177 @ 2 1/2"	2231 (3.50")	Passed (8%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	150 @ 9"	928	Passed (16%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	399 @ 4' 11"	1030	Passed (39%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.122 @ 4' 11"	0.471	Passed (L/930)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.219 @ 4' 11"	0.628	Passed (L/517)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof  
Member Type : Joist  
Building Use : Residential  
Building Code : IRC 2018  
Design Methodology : ASD  
Member Pitch : 0/12

- Deflection criteria: LL (L/240) and TL (L/180).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- A 15% increase in the moment capacity has been added to account for repetitive member usage.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Stud wall - SPF	3.50"	3.50"	1.50"	79	98	177	Blocking
2 - Stud wall - SPF	3.50"	3.50"	1.50"	79	98	177	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	9' 10" o/c	
Bottom Edge (Lb)	9' 10" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Load	Location (Side)	Spacing	Dead (0.90)	Roof Live (1.00)	Comments
1 - Uniform (PSF)	0 to 9' 10"	16"	12.0	15.0	Default Load

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**MEMBER REPORT**  
Proposed Main Ceiling Framing Plan, Beam "E"  
4 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL

Overall Length: 18' 9"

All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	5290 @ 2"	10413 (3.50")	Passed (51%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	4567 @ 1' 3 3/8"	15794	Passed (29%)	1.00	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	22922 @ 9' 4 1/2"	25695	Passed (62%)	1.00	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.498 @ 9' 4 1/2"	0.614	Passed (L/444)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.781 @ 9' 4 1/2"	0.921	Passed (L/283)	--	1.0 D + 1.0 Lr (All Spans)

System : Floor  
Member Type : Flush Beam  
Building Use : Residential  
Building Code : IRC 2018  
Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- Member should be side-loaded from both sides of the member or braced to prevent rotation.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Stud wall - SPF	3.50"	3.50"	1.78"	1915	3375	5290	Blocking
2 - Stud wall - SPF	3.50"	3.50"	1.78"	1915	3375	5290	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	18' 9" o/c	
Bottom Edge (Lb)	18' 9" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 18' 9"	N/A	24.2	--	
1 - Uniform (PSF)	0 to 18' 9" (Front)	9'	20.0	40.0	Default Load

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**MEMBER REPORT**  
Proposed Main Ceiling Framing Plan, Beam "E Steel Option"  
1 piece(s) W12x26 (A992) ASTM Steel

Overall Length: 18' 9"

All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	5306 @ 2"	9654 (3.50")	Passed (55%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	5141 @ 3 1/2"	56120	Passed (9%)	--	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	22997 @ 9' 4 1/2"	41736	Passed (57%)	--	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.158 @ 9' 4 1/2"	0.614	Passed (L/999)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.248 @ 9' 4 1/2"	0.921	Passed (L/892)	--	1.0 D + 1.0 Lr (All Spans)

System : Floor  
Member Type : Flush Beam  
Building Use : Residential  
Building Code : IRC 2018  
Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Applicable calculations are based on ANSI/AISC 360-16.
- A lateral-torsional buckling factor (Cb) of 1.0 has been assumed.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Stud wall - SPF	3.50"	3.50"	3.50"	1931	3375	5306	Blocking
2 - Stud wall - SPF	3.50"	3.50"	3.50"	1931	3375	5306	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	End Bearing Points	
Bottom Edge (Lb)	End Bearing Points	

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 18' 9"	N/A	26.0	--	
1 - Uniform (PSF)	0 to 18' 9"	9'	20.0	40.0	Default Load

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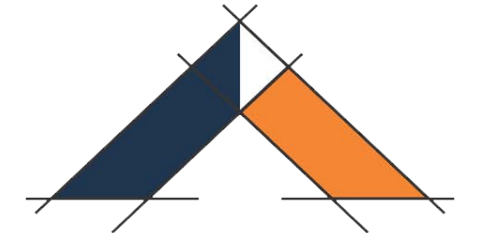
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ENGINEER STAMP & SEAL



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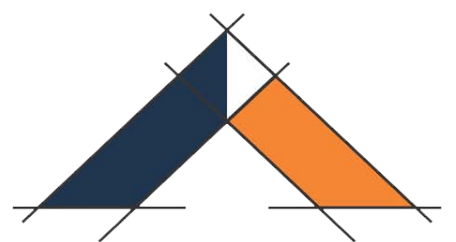
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SEPTEMBER 23, 2021

SHEET TITLE:  
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FRAMING CALCS

A.17

**FORTE WEB** MEMBER REPORT **PASSED**

Proposed Main Ceiling Framing Plan, Beam "F"  
2 piece(s) 2 x 8 SPF No.1/No.2

Overall Length: 19' 1/2"

All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	2653 @ 9' 6" 1/4"	6694 (5.25')	Passed (40%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	1137 @ 10' 4" 1/8"	2447	Passed (46%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	-2443 @ 9' 6" 1/4"	2875	Passed (85%)	-1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.091 @ 14' 6" 13/16"	0.307	Passed (L999+)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.139 @ 14' 8"	0.460	Passed (L793)	--	1.0 D + 1.0 Lr (All Spans)

System : Floor  
Member Type : Flush Beam  
Building Use : Residential  
Building Code : IRC 2018  
Design Methodology : ASD  
Member Pch : 0.12

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Column - SPF	5.25'	5.25'	1.50'	360	547	907	None
2 - Column - SPF	5.25'	5.25'	2.08'	1099	1554	2653	None
3 - Column - SPF	5.25'	5.25'	1.50'	360	547	907	None

Vertical Loads

Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 19' 1/2"	N/A	5.5	--
1 - Uniform (PSF)	0 to 19' 1/2" (Front)	9'	10.0	15.0

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**FORTE WEB** MEMBER REPORT **PASSED**

Proposed Main Ceiling Framing Plan, Joist "B"  
1 piece(s) 11 7/8" TJI@ 230 @ 16" OC

Overall Length: 18' 5"

All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	737 @ 2 1/2"	1485 (3.50')	Passed (50%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	713 @ 3 1/2"	1655	Passed (43%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	3240 @ 9' 2 1/2"	4215	Passed (77%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.338 @ 9' 2 1/2"	0.450	Passed (L639)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.507 @ 9' 2 1/2"	0.900	Passed (L426)	--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	41	40	Passed	--	--

System : Floor  
Member Type : Joist  
Building Use : Residential  
Building Code : IRC 2018  
Design Methodology : ASD

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Stud wall - SPF	3.50'	3.50'	1.75'	246	491	737	Blocking
2 - Stud wall - SPF	3.50'	3.50'	1.75'	246	491	737	Blocking

Vertical Loads

Location (Side)	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 18' 5"	N/A	7.0	--
1 - Uniform (PSF)	0 to 18' 5" (Front)	16'	20.0	40.0

Weyerhaeuser Notes

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**FORTE WEB** MEMBER REPORT **PASSED**

Proposed Basement Ceiling Plan, Joist "C"  
1 piece(s) 2 x 12 SPF No.1/No.2 @ 16" OC

Overall Length: 13' 3 1/2"

All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	532 @ 2 1/2"	2231 (3.50')	Passed (24%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	433 @ 1' 2 3/4"	1519	Passed (29%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	1658 @ 6' 7 3/4"	2653	Passed (62%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.132 @ 6' 7 3/4"	0.322	Passed (L999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.199 @ 6' 7 3/4"	0.644	Passed (L778)	--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	N/A	N/A	N/A	--	N/A

System : Floor  
Member Type : Joist  
Building Use : Residential  
Building Code : IRC 2018  
Design Methodology : ASD

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Stud wall - SPF	3.50'	3.50'	1.50'	177	354	531	Blocking
2 - Stud wall - SPF	3.50'	3.50'	1.50'	177	354	531	Blocking

Vertical Loads

Location (Side)	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 13' 3 1/2"	N/A	5.5	--
1 - Uniform (PSF)	0 to 13' 3 1/2" (Front)	16'	20.0	40.0

Weyerhaeuser Notes

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**FORTE WEB** MEMBER REPORT **PASSED**

Proposed Deck Framing Plan, Beam "G"  
2 piece(s) 2 x 10 SPF No.1/No.2

Overall Length: 18' 2"

All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	3366 @ 9' 1"	6694 (5.25')	Passed (50%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	1379 @ 10' 7/8"	2498	Passed (55%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	-2952 @ 9' 1"	3431	Passed (86%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.068 @ 4' 5 3/4"	0.219	Passed (L999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.089 @ 4' 4 3/8"	0.439	Passed (L999+)	--	1.0 D + 1.0 L (All Spans)

System : Floor  
Member Type : Flush Beam  
Building Use : Residential  
Building Code : IRC 2018  
Design Methodology : ASD

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Column - SPF	5.25'	5.25'	1.50'	385	830/110	1215/110	None
2 - Column - SPF	5.25'	5.25'	2.64'	1173	2193	3366	None
3 - Column - SPF	5.25'	5.25'	1.50'	385	830/110	1215/110	None

Vertical Loads

Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 18' 2"	N/A	7.0	--
1 - Uniform (PSF)	0 to 18' 2" (Front)	5'	20.0	40.0

Weyerhaeuser Notes

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**FORTE WEB** MEMBER REPORT **PASSED**

Proposed Deck Framing Plan, Beam "H"  
2 piece(s) 2 x 10 SPF No.1/No.2

Overall Length: 17' 10 1/2"

All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	2340 @ 8' 11 1/4"	6694 (5.25')	Passed (35%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	955 @ 9' 11 1/8"	2498	Passed (38%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	-2018 @ 8' 11 1/4"	3431	Passed (59%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.044 @ 4' 4 15/16"	0.216	Passed (L999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.058 @ 4' 3 9/16"	0.431	Passed (L999+)	--	1.0 D + 1.0 L (All Spans)

System : Floor  
Member Type : Flush Beam  
Building Use : Residential  
Building Code : IRC 2018  
Design Methodology : ASD

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Column - SPF	5.25'	5.25'	1.50'	273	572/75	845/75	None
2 - Column - SPF	5.25'	5.25'	1.84'	880	1509	2389	None
3 - Column - SPF	5.25'	5.25'	1.50'	273	572/75	845/75	None

Vertical Loads

Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 17' 10 1/2"	N/A	7.0	--
1 - Uniform (PSF)	0 to 17' 10 1/2" (Front)	7' 6"	20.0	40.0

Weyerhaeuser Notes

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**FORTE WEB** MEMBER REPORT **PASSED**

Proposed Deck Framing Plan, Joist "D"  
1 piece(s) 2 x 8 SPF No.1/No.2 @ 16" OC

Overall Length: 10' 8"

All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	427 @ 2 1/2"	2231 (3.50')	Passed (19%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	355 @ 10 3/4"	979	Passed (36%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	1051 @ 5' 4"	1322	Passed (79%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.199 @ 9' 4"	0.256	Passed (L419)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.298 @ 9' 4"	0.512	Passed (L413)	--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	N/A	N/A	N/A	--	N/A

System : Floor  
Member Type : Joist  
Building Use : Residential  
Building Code : IRC 2018  
Design Methodology : ASD

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Stud wall - SPF	3.50'	3.50'	1.50'	142	284	426	Blocking
2 - Stud wall - SPF	3.50'	3.50'	1.50'	142	284	426	Blocking

Vertical Loads

Location (Side)	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 10' 8"	N/A	5.5	--
1 - Uniform (PSF)	0 to 10' 8" (Front)	16'	20.0	40.0

Weyerhaeuser Notes

FortesWEB Software Operator Job Notes

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