

REVISIONS

PROJECT SYNOPSIS

LOT COVERAGE: 3669 SF
 PROPOSED: 3669 SF

FLOOR AREA SUMMARY:

MAIN FLOOR AREA	2420 SF
GARAGE	862 SF
UPPER FLOOR AREA	1026 SF
TOTAL FSR AREA:	4309 SF

PROPOSED HEIGHT: 33.25'

PRINCIPLE HEAT SOURCE:
 FORCED AIR HEATING

GEODETIC HEIGHTS

ROOF PEAK	132.48'
ROOF MEAN	126.33'
T.O. UPPER FLR.	111.11'
T.O. MAIN FLR.	100.00'
T.O. GARAGE SLAB @ ENTRY	99.33'

GENERAL NOTES

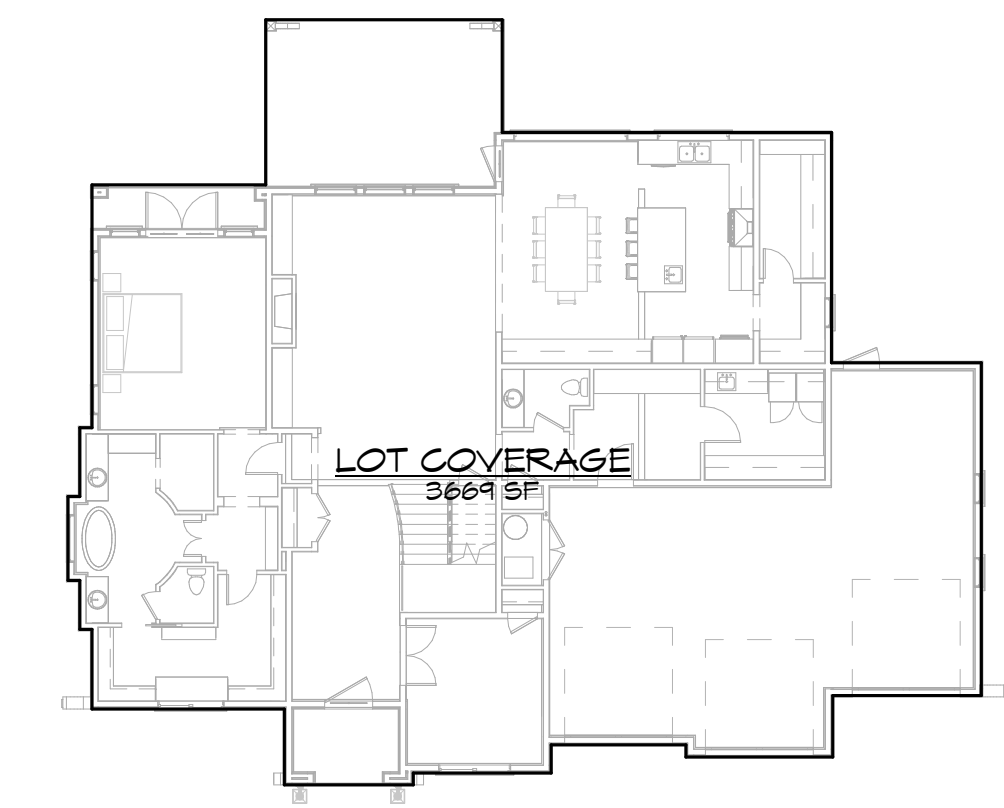
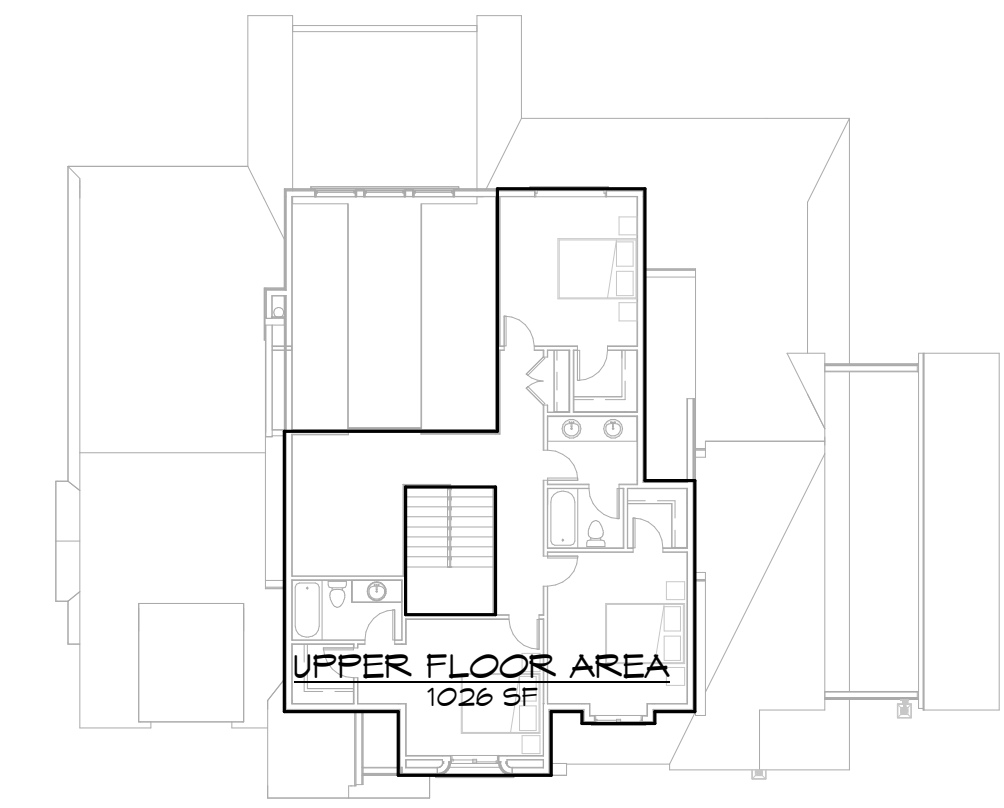
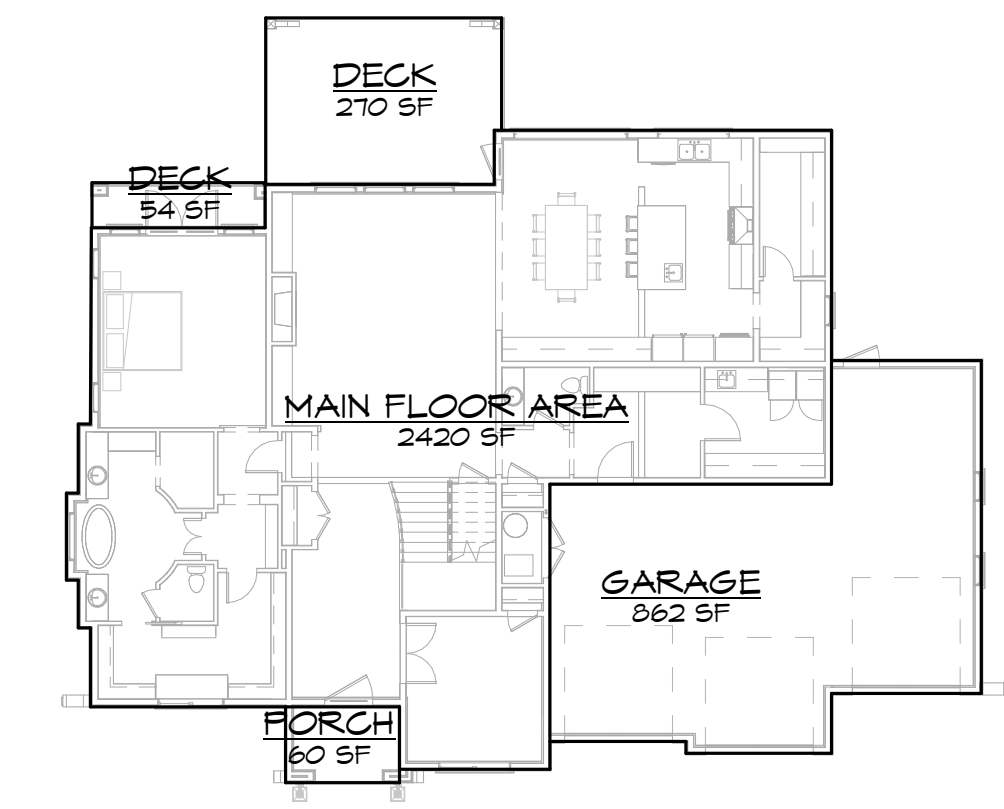
- CONTRACTOR TO ASSURE ALL WORK TO BE DONE IN ACCORDANCE WITH THE LOCAL BUILDING CODE. BEAM SIZING, SPANS AND BEARING POINTS TO BE VERIFIED AND REVIEWED
- ANY DISCREPANCIES ON PLANS TO BE REPORTED TO THE DESIGNER PRIOR TO COMMENCING WORK
- ALL WINDOWS TO BE VINYL FRAME, DOUBLE GLAZED
- PROVIDE RAINSCREEN BEHIND ALL EXTERIOR GLAZING AS REQUIRED ACCORDING TO THE LOCAL BUILDING CODE.
- ALL EXTERIOR FOUNDATION WALLS MUST BE DAMPROOFED
- ALL FOUNDATION WALLS & FOOTINGS TO BE IN COMPLIANCE WITH THE LOCAL BUILDING CODE.
- ASSURE ALL PAD FOOTING SIZES ARE OF ADEQUATE SIZE ACCORDING TO THE LOCAL BUILDING CODE.
- ALL BEARING POINTS IN BEARING WALLS TO BE SOLID STUDDING
- PROVIDE BEAM POCKETS IN FOUNDATION WHERE REQUIRED
- ALL OPENINGS IN STRUCTURAL WALLS (OVER WINDOWS/DOORS) TO HAVE STRUCTURAL HEADER ABOVE
- ALL WOOD USED IS TO BE S.P.F. KD. NO. 142 OR BETTER
- ALL FLOOR JOISTS TO BE NAILED AND GLUED TO SUBFLOOR W/ BRIDGING WHERE NECESSARY ACCORDING TO THE LOCAL BUILDING CODE.
- ALL EXTERIOR DOORS - METAL INSULATED, PAINTED (N.O.)



FRONT RIGHT VIEW



FRONT LEFT VIEW



DRAWING INDEX	
SHEET	DRAWING TITLE
A1.0	TITLE SHEET
A2.0	FND./CRAWLSPACE PLAN
A2.1	MAIN FLOOR PLAN
A2.2	UPPER FLOOR PLAN
A2.3	ROOF PLAN
A3.0	EXTERIOR ELEVATIONS
A3.1	EXTERIOR ELEVATIONS
A4.0	SECTIONS
A4.1	SECTIONS
A4.2	SECTIONS
A5.0	DETAILS
A5.1	DETAILS

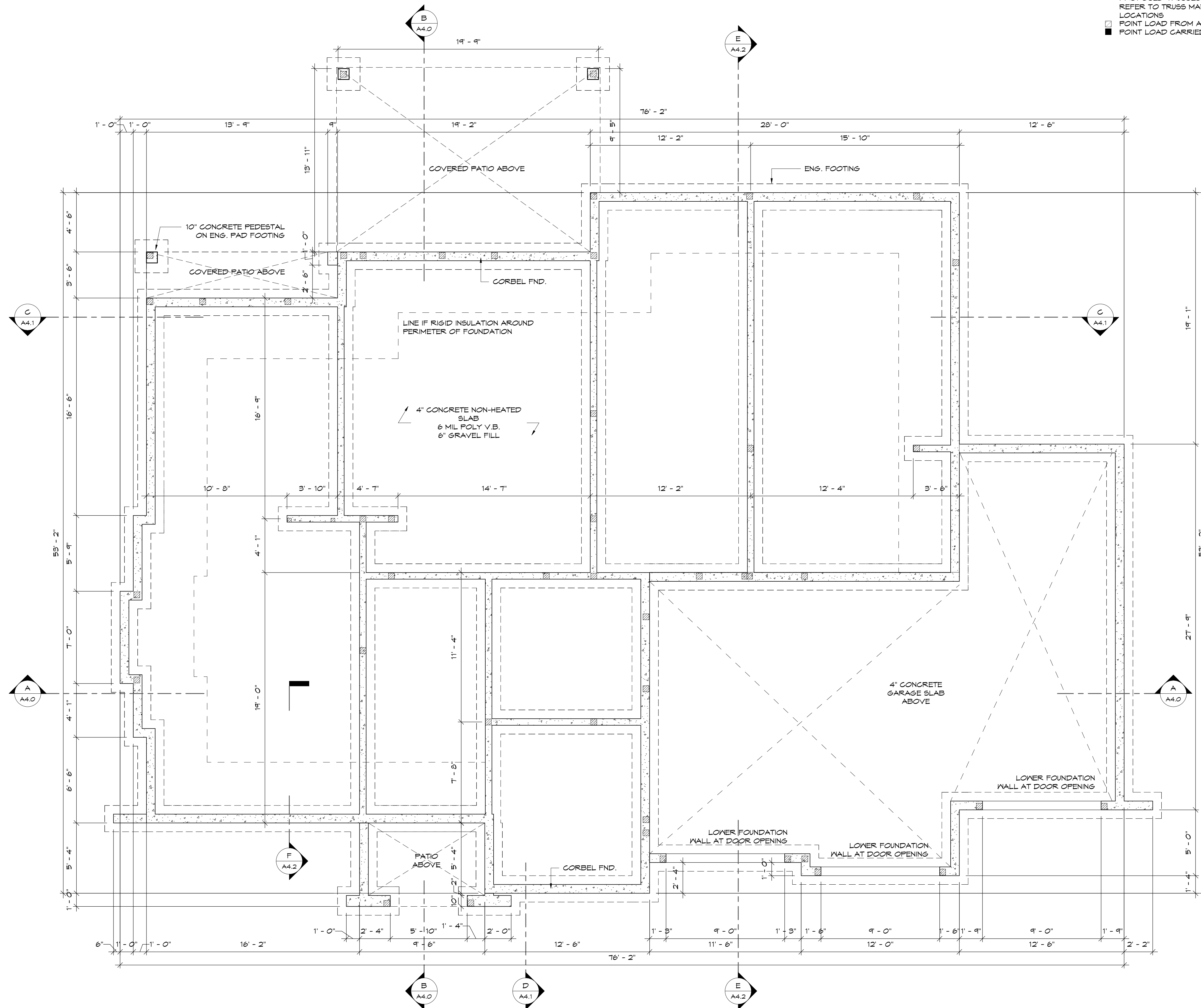
COPPER CANYON

SU CASA
 DESIGN

ADDRESS: 2648 MONTROSE AVE. ABBOTSFORD, B.C. TEL: (604) 864-4303 EMAIL: INFO@SU CASADESIGN.CA

PROJECT	
TITLE SHEET	
SCALE As indicated	SHEET NUMBER A1.0
DATE 2/4/2024 3:45:52 PM	

ALL DRAWINGS TO BE READ IN CONJUNCTION WITH EACH OTHER. ANY DISCREPANCIES ON DRAWINGS ARE TO BE REPORTED TO THE DESIGNER BEFORE INITIATING WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL WORK IS FULFILLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE LOCAL BUILDING CODE.



- TYPICAL FLOOR PLAN NOTES**
- ALL INTERIOR DOOR ARE 4" FROM WALL (UNO)
 - PROPOSED STRUCTURE SHOWN FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR BEAM LOCATION/SIZE & JOIST DIRECTION
 - PROPOSED TRUSSES SHOWN FOR REFERENCE ONLY. REFER TO TRUSS MANUFACTURER DRAWINGS FOR TRUSS LOCATIONS
 - ▣ POINT LOAD FROM ABOVE
 - POINT LOAD CARRIED TO FLOOR BELOW

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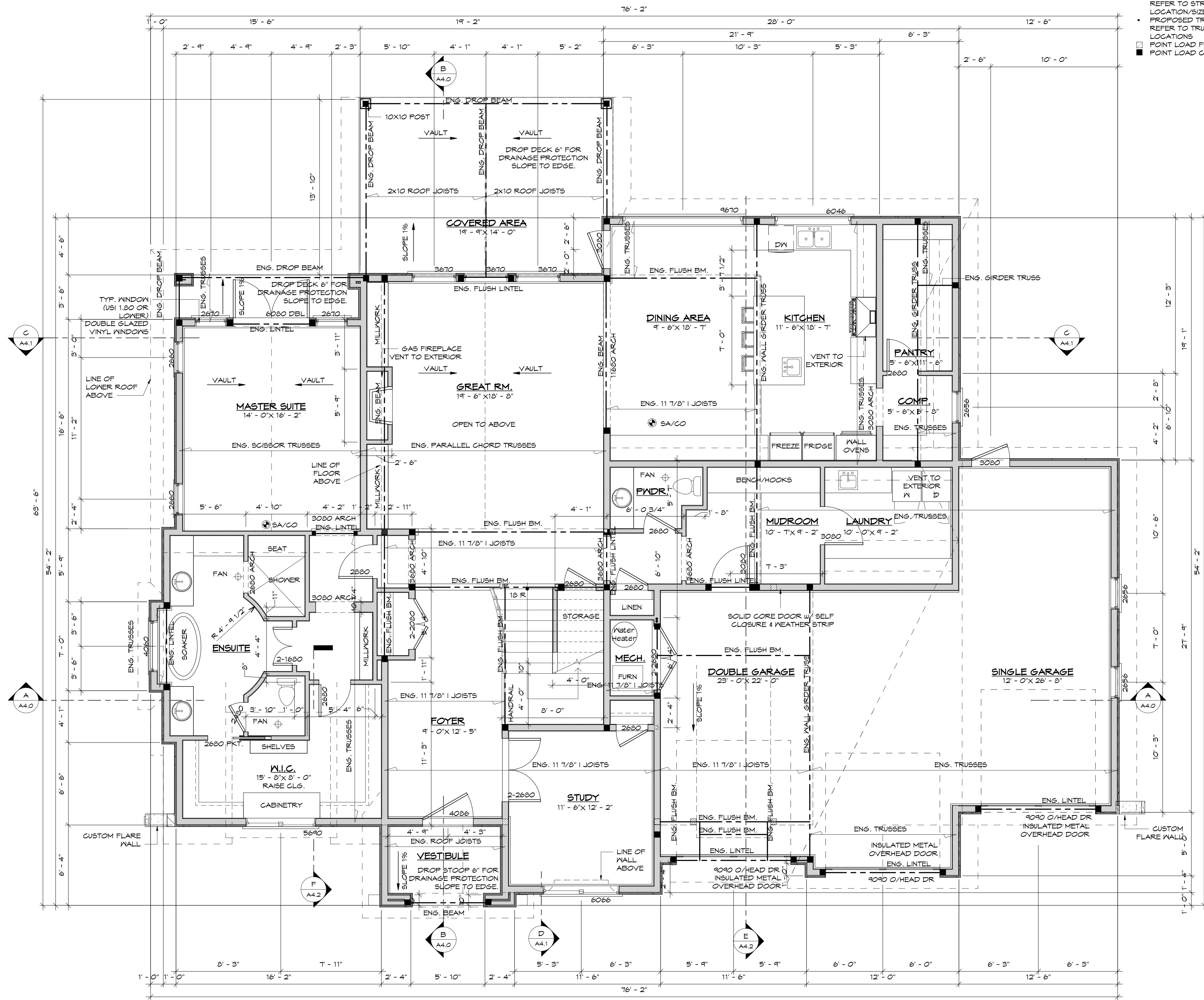
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FOUNDATION PLAN
1/4" = 1'-0"

PROJECT	
TITLE FND./CRAWLSPACE PLAN	
SCALE 1/4" = 1'-0"	SHEET NUMBER A2.0
DATE 2/4/2024 3:45:52 PM	

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 - PROPOSED TRUSSES SHOWN FOR REFERENCE ONLY. REFER TO TRUSS MANUFACTURER DRAWINGS FOR TRUSS LOCATIONS
 - POINT LOAD FROM ABOVE
 - POINT LOAD CARRIED TO FLOOR BELOW

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MAIN FLOOR PLAN
1/4" = 1'-0"

MAIN FLOOR AREA 2420 SF
GARAGE 862 SF
TOTAL MAIN FLOOR AREA 3282 SF

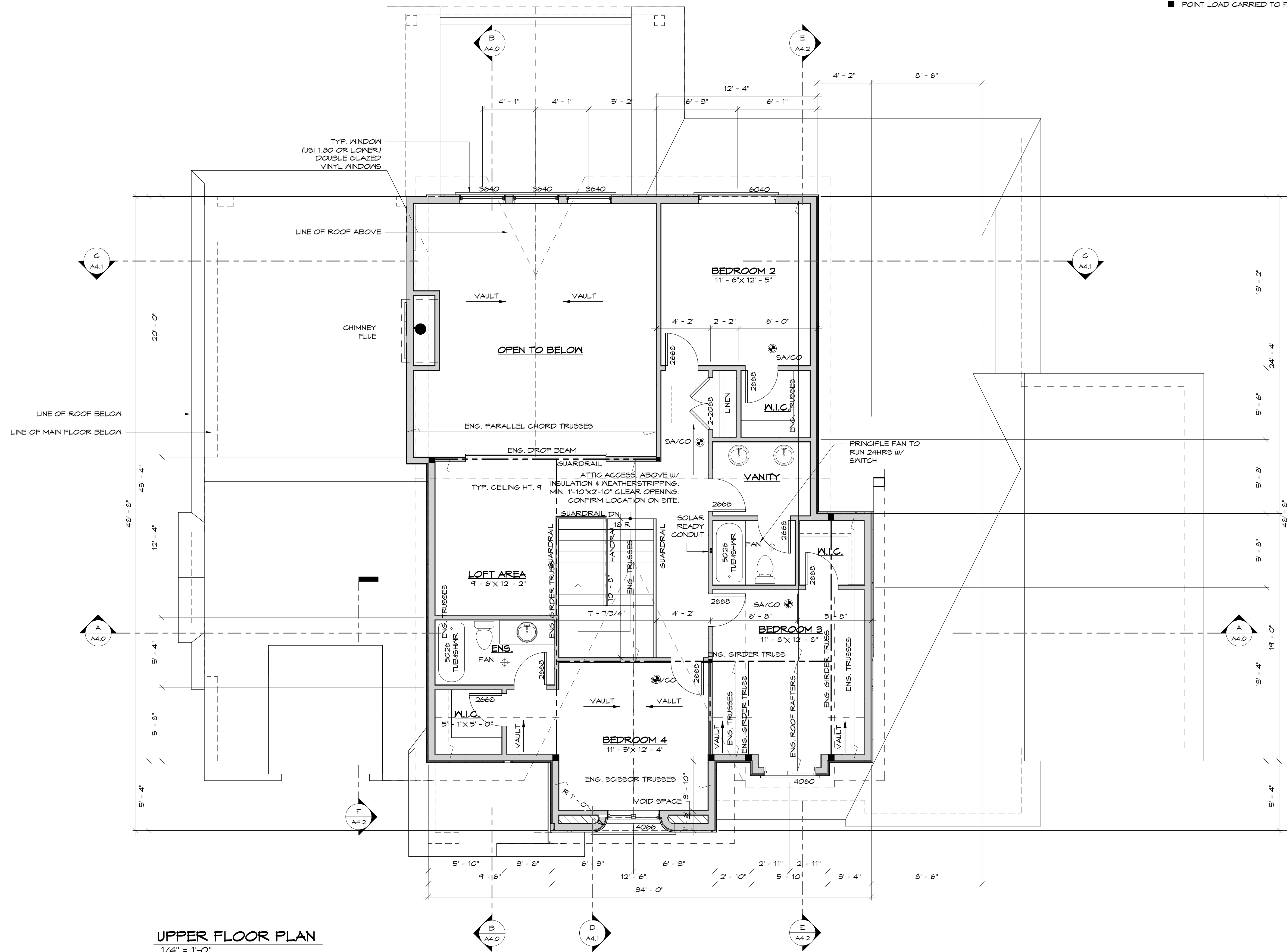
PROJECT	
TITLE MAIN FLOOR PLAN	
SCALE 1/4" = 1'-0"	SHEET NUMBER A2.1
DATE 2/4/2024 3:45:53 PM	

ALL DRAWINGS TO BE READ IN CONJUNCTION WITH EACH OTHER. ANY DISCREPANCIES ON DRAWINGS ARE TO BE REPORTED TO THE DESIGNER BEFORE INITIATING WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL WORK IS FULFILLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE LOCAL BUILDING CODE.

TYPICAL FLOOR PLAN NOTES

- ALL INTERIOR DOOR ARE 4" FROM WALL (UNO)
- PROPOSED STRUCTURE SHOWN FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR BEAM LOCATION/SIZE & JOIST DIRECTION
- PROPOSED TRUSSES SHOWN FOR REFERENCE ONLY. REFER TO TRUSS MANUFACTURER DRAWINGS FOR TRUSS LOCATIONS
- ◻ POINT LOAD FROM ABOVE
- ◼ POINT LOAD CARRIED TO FLOOR BELOW

REVISIONS



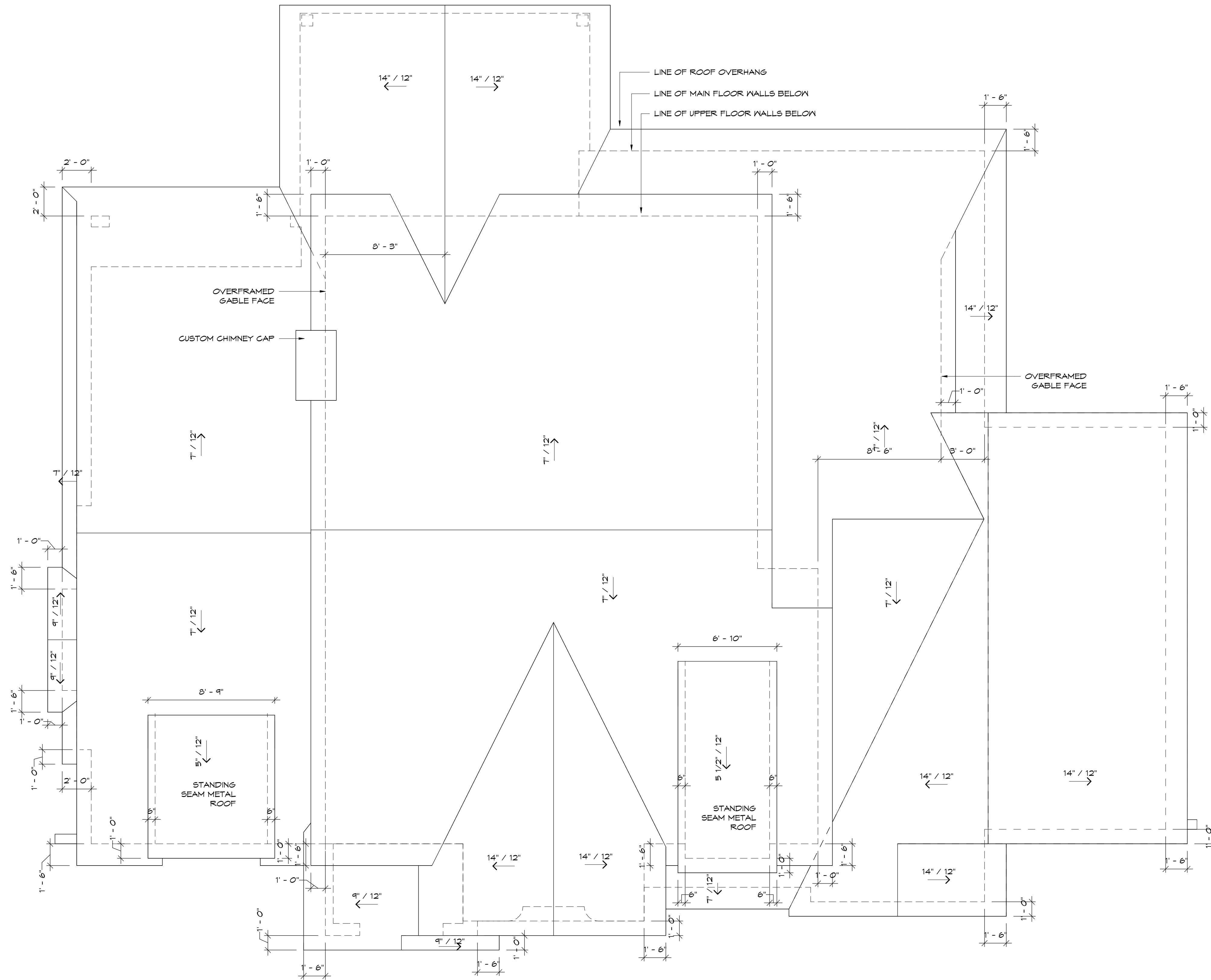
UPPER FLOOR PLAN
 1/4" = 1'-0"
 UPPER FLOOR AREA 1026 SF

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PROJECT	
TITLE UPPER FLOOR PLAN	
SCALE 1/4" = 1'-0"	SHEET NUMBER A2.2
DATE 2/4/2024 3:45:54 PM	



ROOF PLAN
1/4" = 1'-0"

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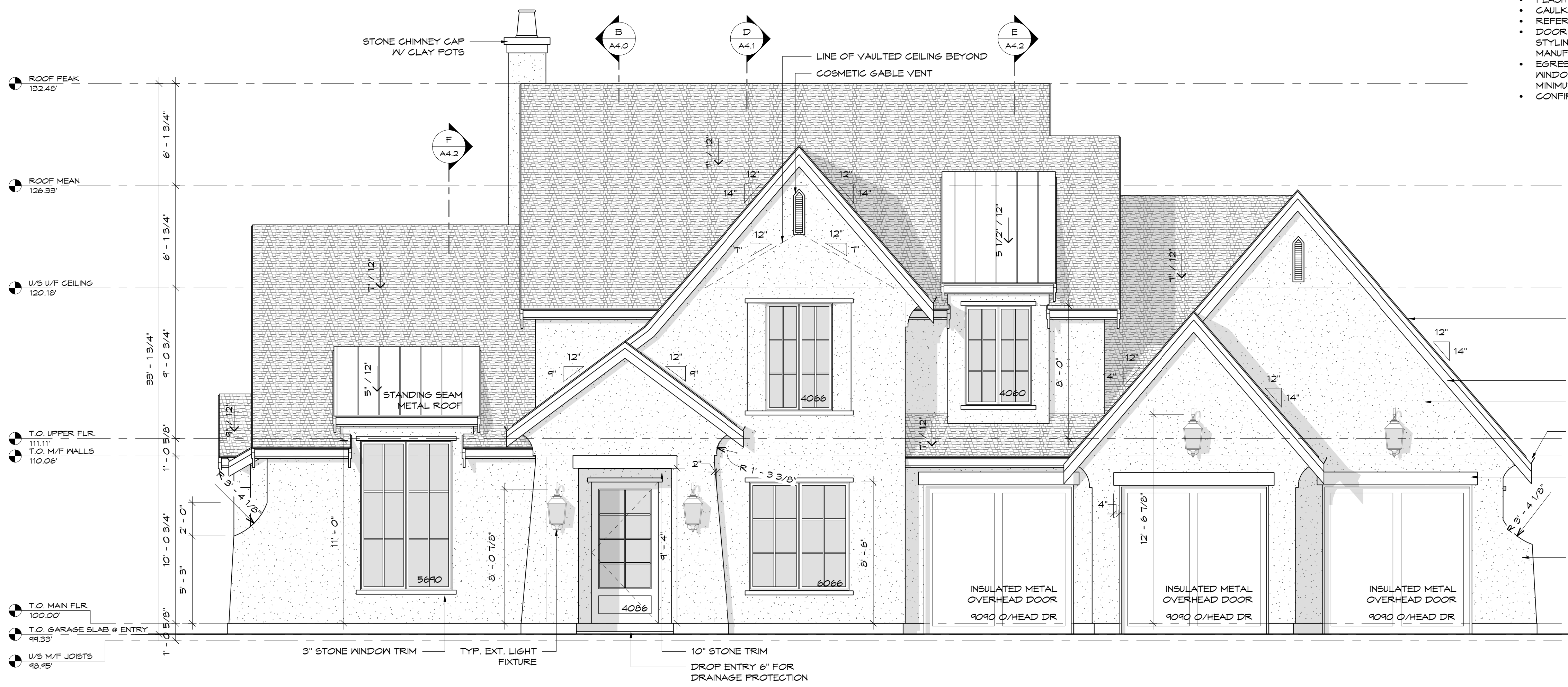
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PROJECT _____

TITLE **ROOF PLAN**

SCALE 1/4" = 1'-0"
DATE 2/4/2024 3:45:54 PM

SHEET NUMBER
A2.3



EXTERIOR NOTES

- FLASH ALL UNPROTECTED EXTERIOR OPENINGS
- CAULK JOINTS BETWEEN DISSIMILAR MATERIALS
- REFER TO ROOF PLAN FOR OVERHANG DIMENSIONS
- DOOR & WINDOW STYLING IS APPROXIMATE. FINAL STYLING TO BE AS PER DOOR & WINDOW MANUFACTURERS' DRAWINGS/SPECIFICATIONS.
- EGRESS WINDOWS ARE SHOWN WHERE REQUIRED. WINDOW MANUFACTURER TO CONFIRM OPENINGS MEET MINIMUM EGRESS REQUIREMENTS AS PER LOCAL CODE
- CONFIRM ALL WINDOW OPENERS WITH OWNER.

FRONT ELEVATION
1/4" = 1'-0"



RIGHT ELEVATION
1/4" = 1'-0"

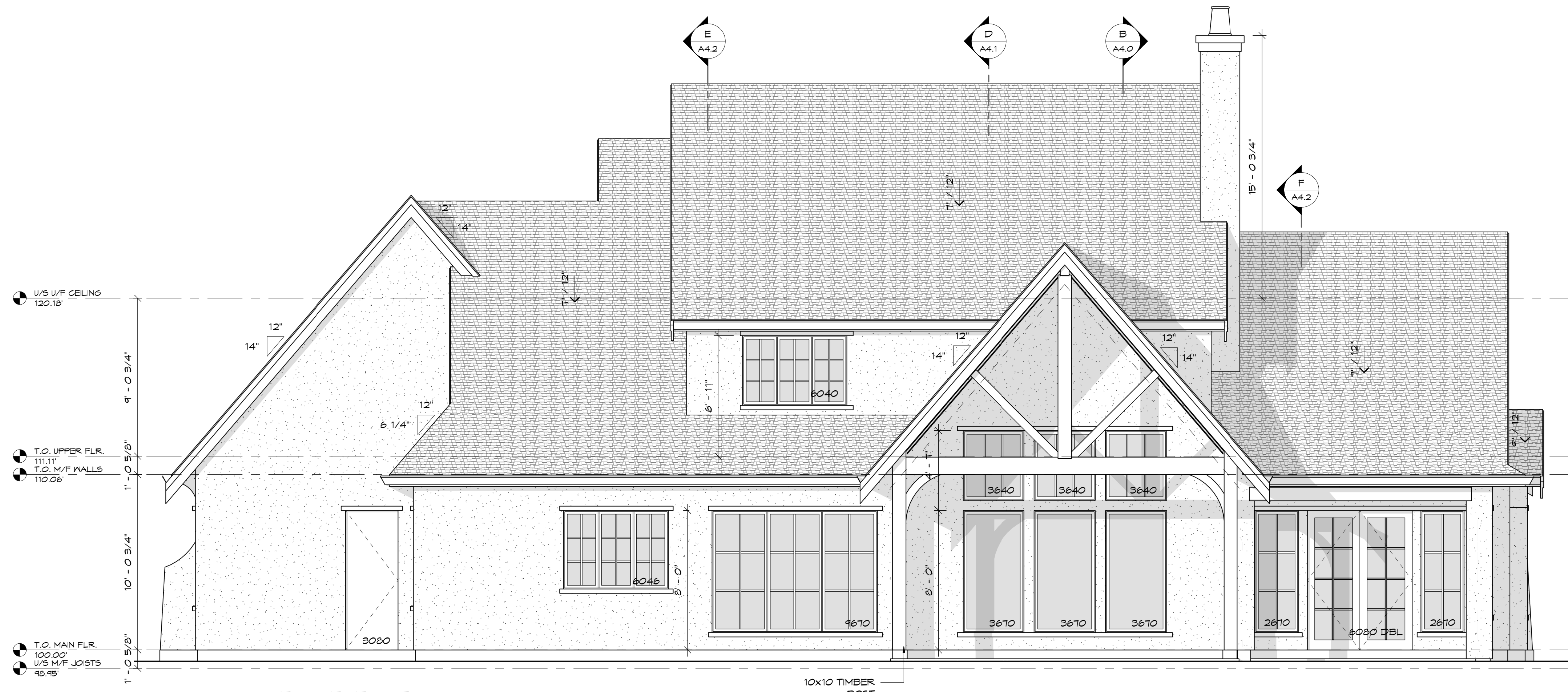
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PROJECT	
TITLE EXTERIOR ELEVATIONS	
SCALE As indicated	SHEET NUMBER A3.0
DATE 2/4/2024 3:45:58 PM	



REAR ELEVATION
1/4" = 1'-0"



LEFT ELEVATION
1/4" = 1'-0"

EXTERIOR NOTES

- FLASH ALL UNPROTECTED EXTERIOR OPENINGS
- CAULK JOINTS BETWEEN DISSIMILAR MATERIALS
- REFER TO ROOF PLAN FOR OVERHANG DIMENSIONS
- DOOR & WINDOW STYLING IS APPROXIMATE. FINAL STYLING TO BE AS PER DOOR & WINDOW MANUFACTURERS' DRAWINGS/SPECIFICATIONS.
- EGRESS WINDOWS ARE SHOWN WHERE REQUIRED. WINDOW MANUFACTURER TO CONFIRM OPENINGS MEET MINIMUM EGRESS REQUIREMENTS AS PER LOCAL CODE
- CONFIRM ALL WINDOW OPENERS WITH OWNER.

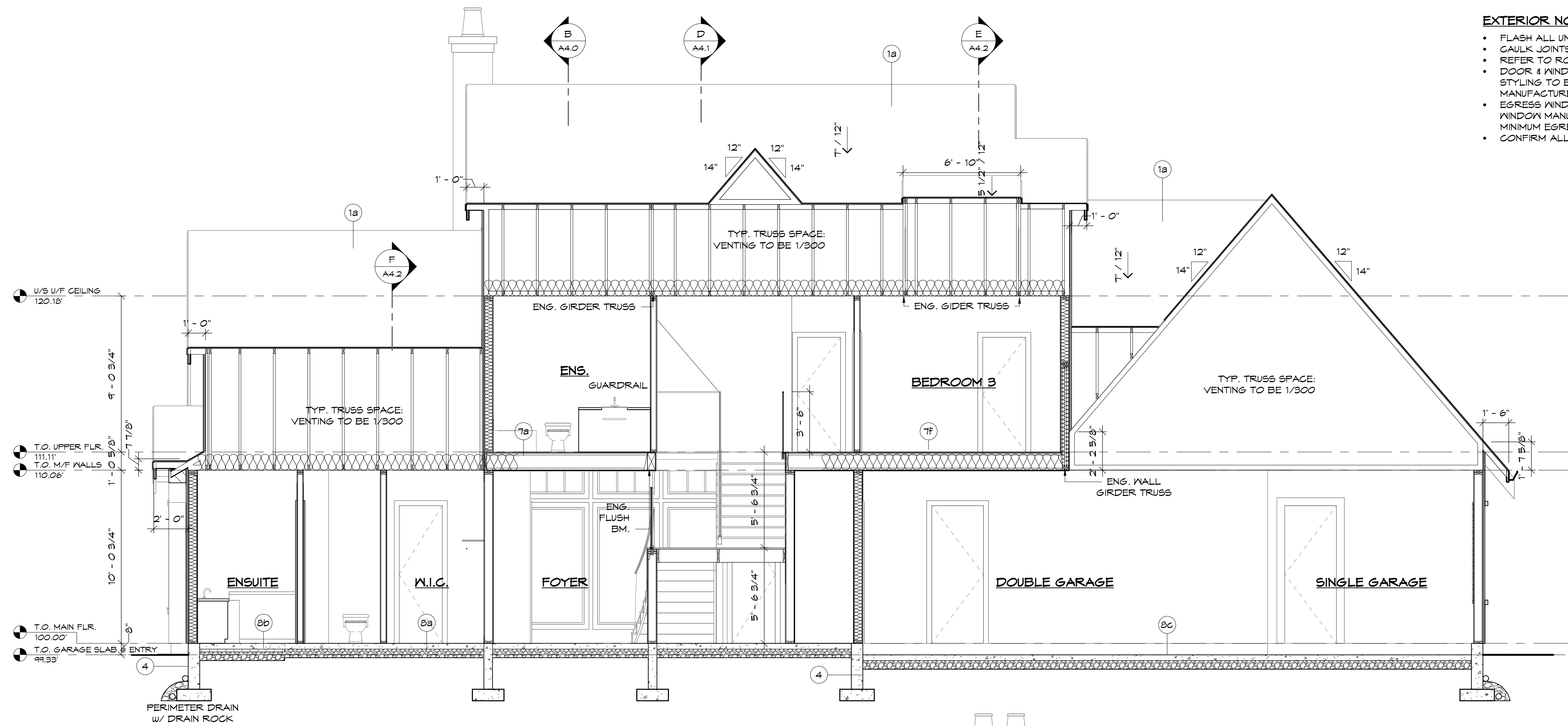
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PROJECT	
TITLE EXTERIOR ELEVATIONS	
SCALE As indicated	SHEET NUMBER A3.1
DATE 2/4/2024 3:46:03 PM	

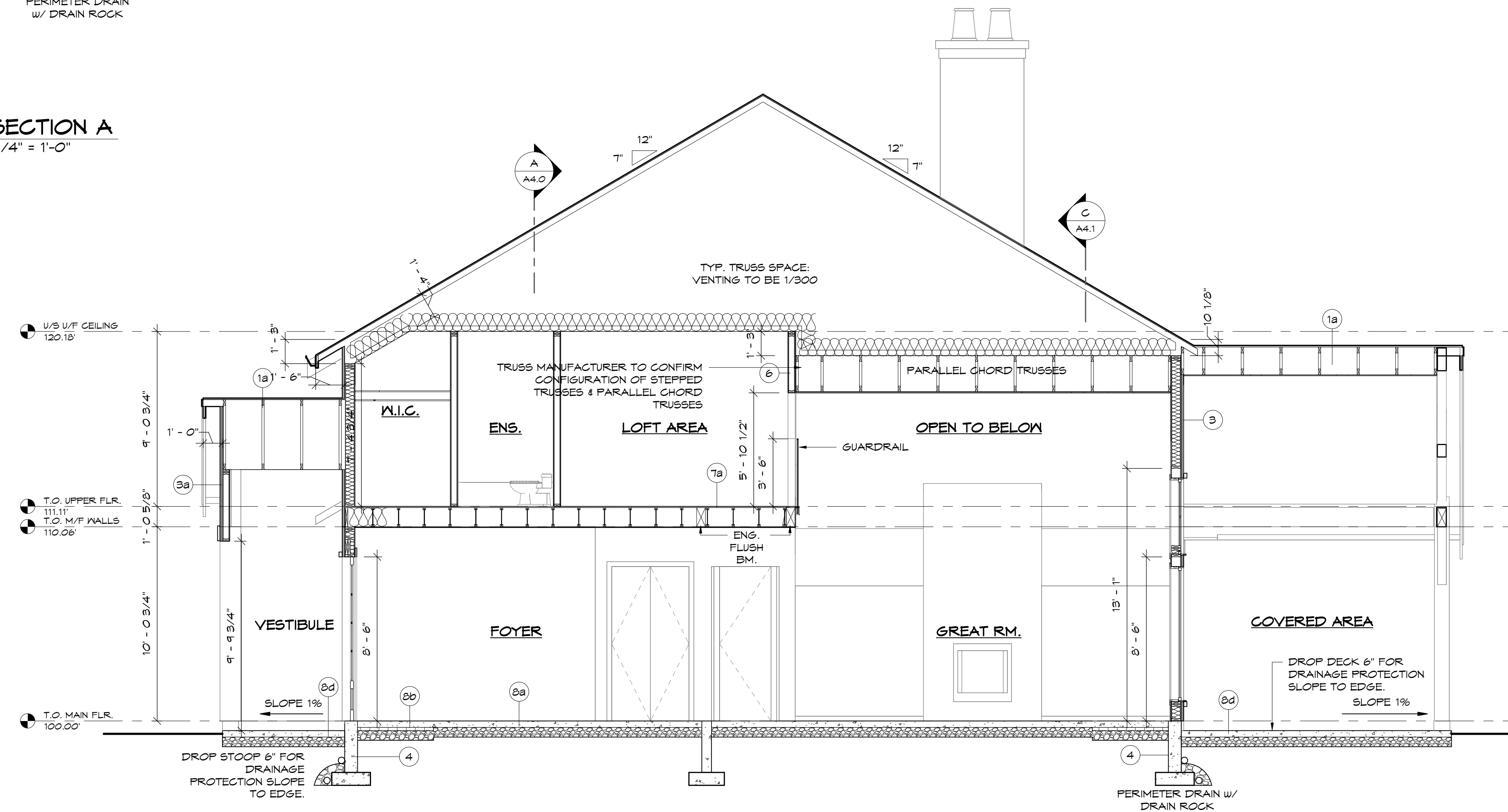


EXTERIOR NOTES

- FLASH ALL UNPROTECTED EXTERIOR OPENINGS
- CAULK JOINTS BETWEEN DISSIMILAR MATERIALS
- REFER TO ROOF PLAN FOR OVERHANG DIMENSIONS
- DOOR & WINDOW STYLING IS APPROXIMATE. FINAL STYLING TO BE AS PER DOOR & WINDOW MANUFACTURERS' DRAWINGS/SPECIFICATIONS.
- EGRESS WINDOWS ARE SHOWN WHERE REQUIRED. WINDOW MANUFACTURER TO CONFIRM OPENINGS MEET MINIMUM EGRESS REQUIREMENTS AS PER LOCAL CODE
- CONFIRM ALL WINDOW OPENERS WITH OWNER.

REVISIONS

SECTION A
1/4" = 1'-0"



SECTION B
1/4" = 1'-0"

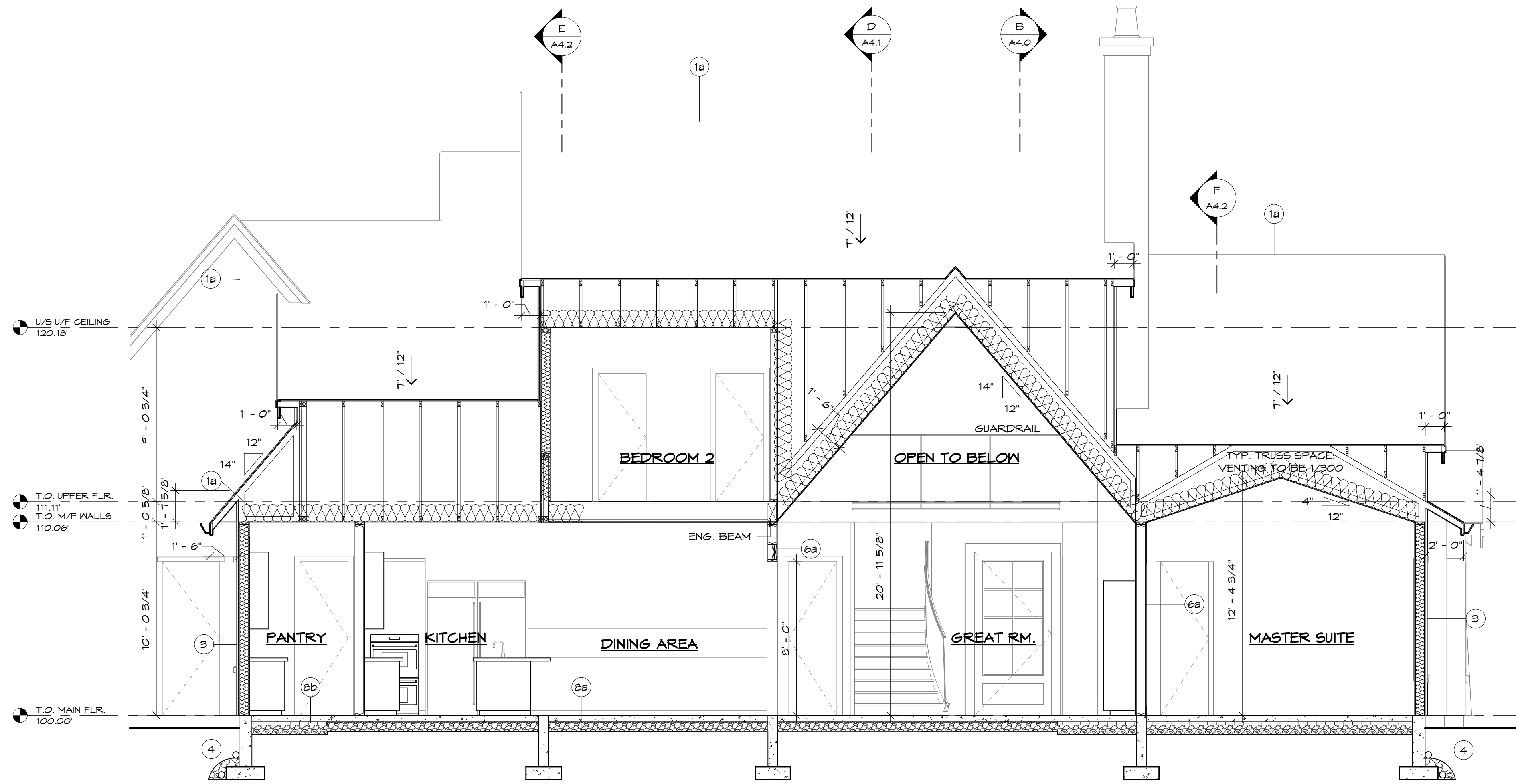
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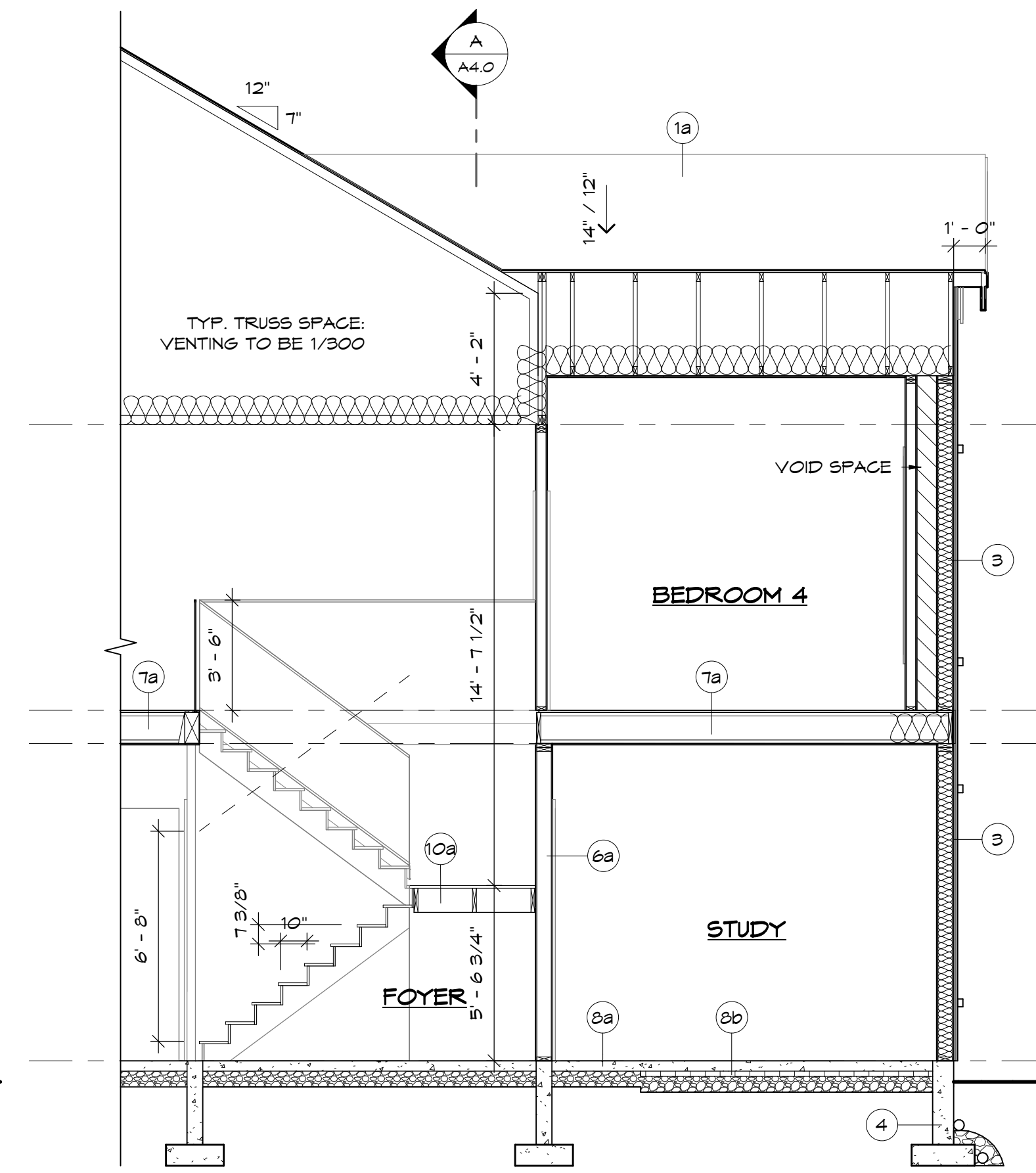
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PROJECT	
TITLE SECTIONS	
SCALE As indicated	SHEET NUMBER A4.0
DATE 2/4/2024 3:46:04 PM	



SECTION C
1/4" = 1'-0"



SECTION D
1/4" = 1'-0"

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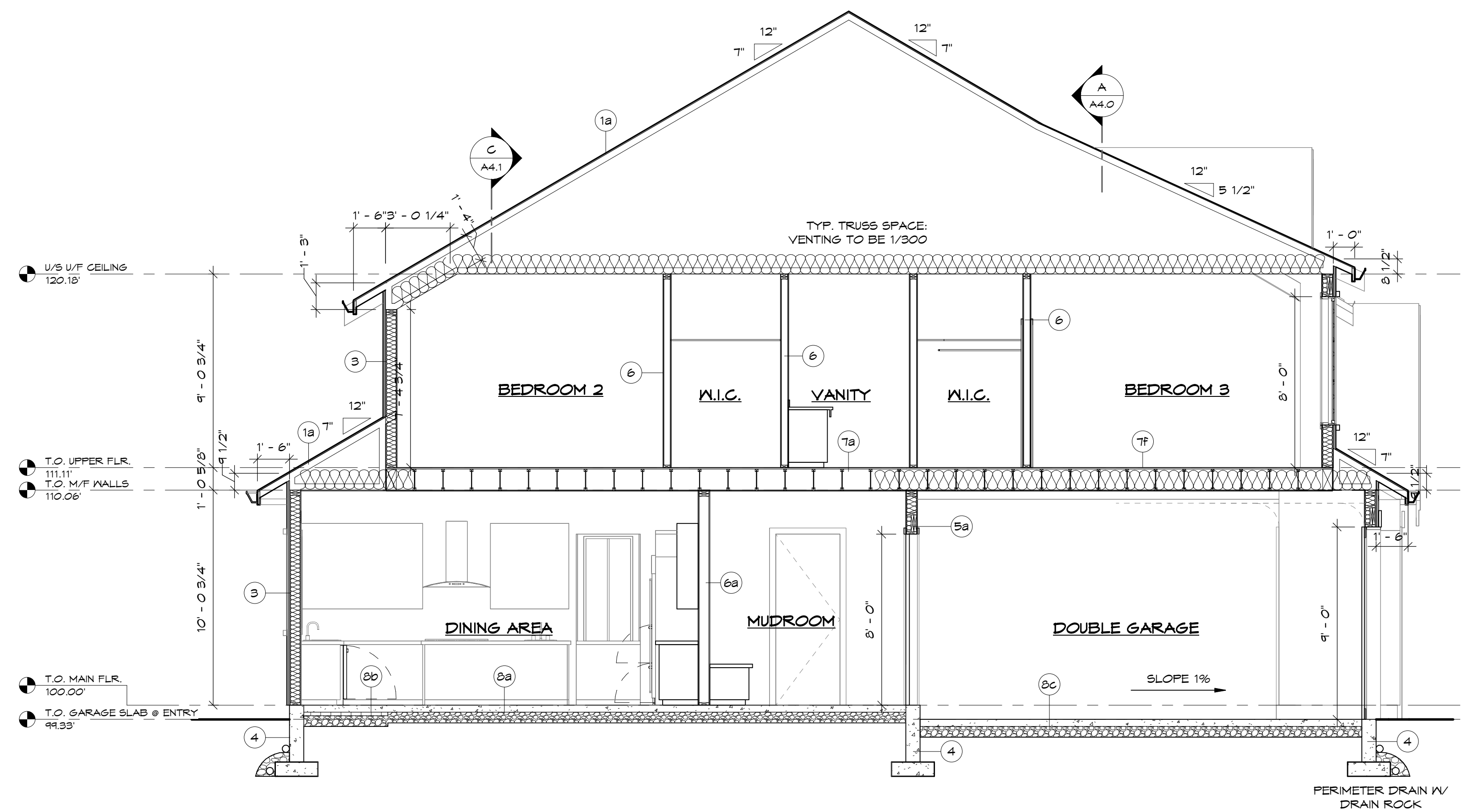
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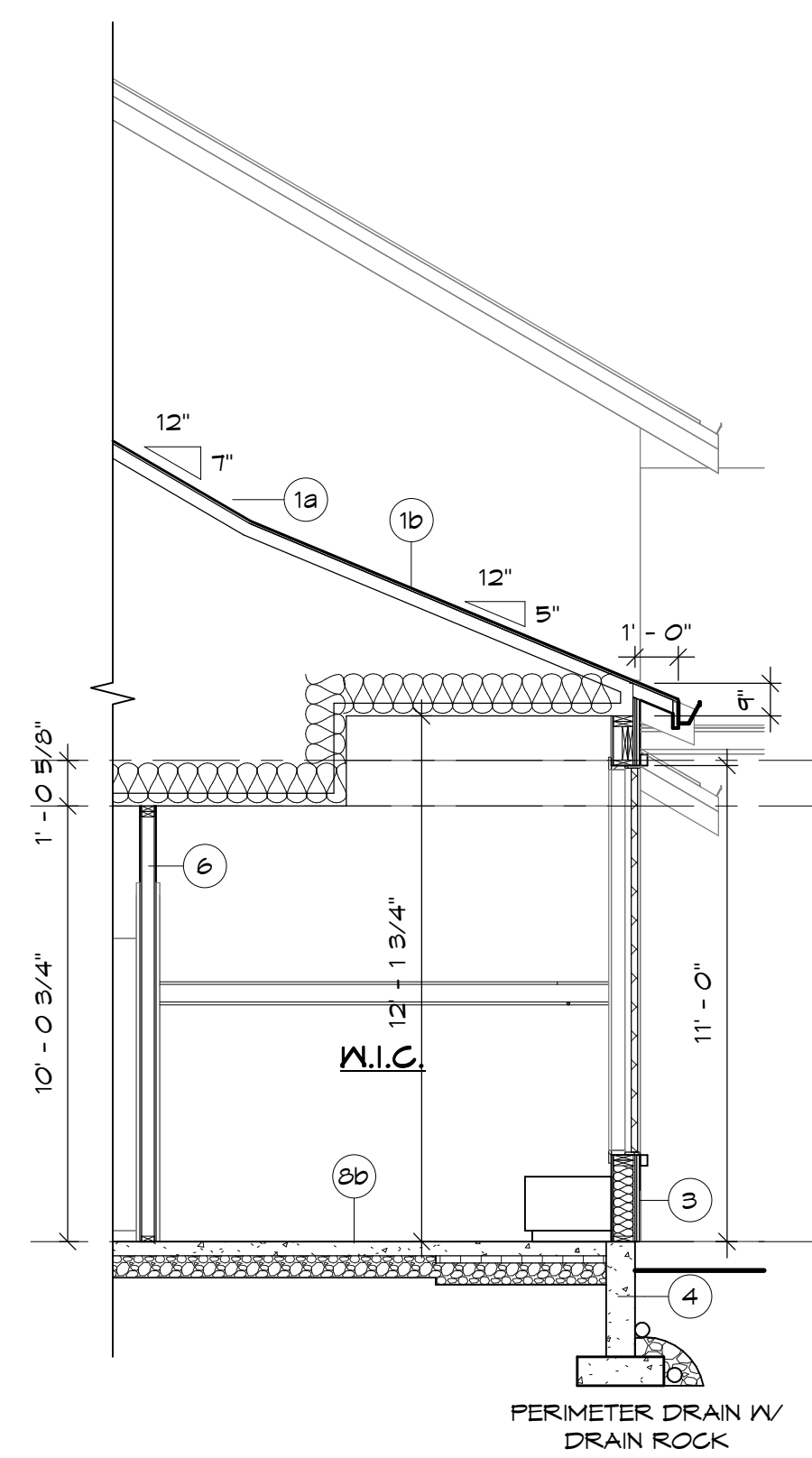
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PROJECT	
TITLE	
SECTIONS	
SCALE	SHEET NUMBER
1/4" = 1'-0"	A4.1
DATE	
2/4/2024 3:46:04 PM	

REVISIONS



SECTION E
1/4" = 1'-0"



SECTION F
1/4" = 1'-0"

BUILDING SPECIFICATIONS

SEE DETAILS FOR REQUIRED BATT INSULATION VALUES.

- 1a**
TYPICAL TRUSS ROOF
MIN RSI 6.91 FOR ASSEMBLY
ASPHALT SHINGLE ROOF
15# BREATHER TYPE ROOFING FELT
1/2" PLYWOOD ROOF SHEATHING
PROVIDE EAVE PROTECTION TO CODE
ENG. TRUSSES
BATT INSULATION
6 MIL POLY V.B.
GYPSUM CEILING BOARD
- 1b**
TYPICAL TRUSS ROOF
MIN RSI 6.91 FOR ASSEMBLY
STANDING SEAM METAL ROOFING
15# BREATHER TYPE ROOFING FELT
1/2" PLYWOOD ROOF SHEATHING
PROVIDE EAVE PROTECTION TO CODE
ENG. TRUSSES
BATT INSULATION
6 MIL POLY V.B.
GYPSUM WALL BOARD
- 3**
TYPICAL EXTERIOR WALLS
MIN RSI 2.78 FOR ASSEMBLY
EXTERIOR FINISH
REQUIRED RAINSCREEN
BUILDING PAPER
1/2" PLYWOOD SHEATHING
2x6 STUDS @ 16" O.C.
BATT INSULATION
6 MIL. POLY V.B.
GYPSUM WALL BOARD

- 3a**
TYPICAL 2X4 EXTERIOR WALLS
EXTERIOR FINISH
REQUIRED RAINSCREEN
BUILDING PAPER
1/2" PLYWOOD SHEATHING
2x4 STUDS @ 16" O.C.
R-14 BATT INSULATION
6 MIL. POLY V.B.
GYPSUM WALL BOARD
- 4**
TYPICAL FOUNDATION WALLS
MIN RSI 1.99 FOR ASSEMBLY INCL. FURRING
ASPHALT EMULSION (DAMP-PROOFING)
ENG. CONCRETE FOUNDATION WALL
ENG. CONCRETE STRIP FOOTING W/
REBAR
(SEE STRUCTURAL FOR SPECS.)
6" MIN. DRAIN ROCK
4" PERIMETER DRAIN
- 4c**
FOUNDATION CURB WALL - 6"
ENG. CONCRETE CURB WALL
ENG. CONCRETE STRIP FOOTING W/
REBAR
(SEE STRUCTURAL FOR SPECS.)

- 5a**
TYPICAL GARAGE WALL
MIN RSI 2.62 FOR ASSEMBLY
1/2" GYPSUM WALL BOARD
2X6 STUDS @ 16" O.C.
BATT INSULATION
6 MIL UV POLY VAPOUR BARRIER
1/2" GYPSUM WALL BOARD
- 6**
TYPICAL INTERIOR WALLS
1/2" GYPSUM WALL BOARD
2X4 STUDS @ 16" O.C.
1/2" GYPSUM WALL BOARD
- 6a**
TYPICAL INTERIOR WALLS
1/2" GYPSUM WALL BOARD
2X6 STUDS @ 16" O.C.
1/2" GYPSUM WALL BOARD
- 6e**
INTERIOR WALL, STUDS ONLY
2X4 STUDS @ 16" O.C.

- 7a**
TYPICAL FLOOR (11 7/8")
OVER UNCONDITIONED SPACE
MIN RSI 4.67 FOR ASSEMBLY
FINISH FLOORING
3/4" T&G PLYWOOD SHEATHING
(NAILED & GLUED)
11 7/8" ENG. FLOOR JOISTS
TO ENGR'S SPECS.
GYPSUM CEILING BOARD
- 7f**
TYPICAL FLOOR (11 7/8")
OVER UNCONDITIONED SPACE
MIN RSI 4.67 FOR ASSEMBLY
FINISH FLOORING
3/4" T&G PLYWOOD SHEATHING
(NAILED & GLUED)
6 MIL UV POLY VAPOUR BARRIER
11 7/8" ENG. FLOOR JOISTS
TO ENGR'S SPECS.
BATT INSULATION
GYPSUM CEILING BOARD
- 8a**
TYPICAL SLAB FLOOR
(UNHEATED, UNINSULATED)
4" CONC. SLAB
6 MIL POLY V.B.
6" MIN. COMPACT GRANULAR FILL

- 8b**
SLAB FLOOR
(PERIMETER ABOVE FROST)
MIN RSI 1.96 FOR ASSEMBLY
4" CONC. SLAB
MIN. 2" XPS RIGID INSULATION
MIN. 1.2m WIDTH INSIDE OF FDN.
6 MIL POLY V.B.
6" MIN. COMPACT GRANULAR FILL
- 8c**
TYPICAL GARAGE SLAB
4" CONCRETE SLAB
(SEE STRUCTURAL FOR SPECS.)
6" MIN. COMPACT GRANULAR FILL
1% MIN. SLOPE TO ENTRY
- 8d**
TYPICAL EXTERIOR SLAB
FINISH AS PER OWNER
4" CONCRETE SLAB
6" MIN. COMPACT GRANULAR FILL
1% MIN. SLOPE AWAY FROM HOUSE
- 10a**
TYP. INTERIOR STAIR
11" TREAD
10" RUN
3-2x12 STRINGER
32"-36" HANDRAIL @ STAIRS W/
3 OR MORE RISERS
PROVIDE 6'-8" MIN. FINISHED HEADROOM

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PROJECT	
TITLE SECTIONS	
SCALE 1/4" = 1'-0"	SHEET NUMBER A4.2
DATE 2/4/2024 3:46:05 PM	

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WALL ASSEMBLY COMPONENTS	RSI
1 EXTERIOR AIR FILM	0.03
2 1" (25.4MM) AIR SPACE W/KEEP HOLES	0.18
3 ASPHALT IMPREGNATED PAPER	0.00
4 1/2" (12.7MM) OSB SHEATHING	0.11
5 2X6 FRAMING FILLED W/ R20 BATT @ 16" O.C.	2.41
6 POLYETHYLENE	0.00
7 1/2" (12.7MM) GYPSUM BOARD	0.08
8 FINISH: 1 COAT PRIMER/PAINT	0.00
9 INTERIOR AIR FILM	0.12
EFFECTIVE RSI/R VALUE OF ENTIRE ASSEMBLY	2.93

- MIN. RSI 2.78

THIS ASSEMBLY MEETS THE MINIMUM REQUIRED RSI VALUE REGARDLESS OF APPLIED EXTERIOR FINISH

WALL ASSEMBLY COMPONENTS	RSI
1 EXTERIOR AIR FILM	0.03
2 ASPHALT IMPREGNATED PAPER	0.00
3 1/2" (12.7MM) OSB SHEATHING	0.11
4 2X6 FRAMING FILLED W/ R20 BATT @ 16" O.C.	2.41
5 POLYETHYLENE	0.00
6 1/2" (12.7MM) GYPSUM BOARD	0.08
7 FINISH: 1 COAT PRIMER/PAINT	0.00
8 INTERIOR AIR FILM	0.12
EFFECTIVE RSI/R VALUE OF ENTIRE ASSEMBLY	2.93

- MIN. RSI 2.78

THIS ASSEMBLY MEETS THE MINIMUM REQUIRED RSI VALUE REGARDLESS OF APPLIED EXTERIOR FINISH

WALL ASSEMBLY COMPONENTS	RSI
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4 1/2" (12.7MM) GYPSUM BOARD	0.08
5 POLYETHYLENE	0.00
6 FINISH: 1 COAT PRIMER/PAINT	0.00
7 INTERIOR AIR FILM	0.12
EFFECTIVE RSI/R VALUE OF ENTIRE ASSEMBLY	2.72

- MIN. RSI 2.62

THIS ASSEMBLY MEETS THE MINIMUM REQUIRED RSI VALUE REGARDLESS OF APPLIED EXTERIOR FINISH

WALL ASSEMBLY COMPONENTS	RSI
1 EXTERIOR AIR FILM	0.03
2 1" (25.4MM) AIR SPACE W/KEEP HOLES	0.18
3 ASPHALT IMPREGNATED PAPER	0.00
4 1/2" (12.7MM) OSB SHEATHING	0.11
5 2X4 FRAMING FILLED W/ R14 BATT @ 16" O.C.	1.62
6 2" RIGID INSULATION	1.68
7 POLYETHYLENE	0.00
8 1/2" (12.7MM) GYPSUM BOARD	0.08
9 FINISH: 1 COAT PRIMER/PAINT	0.00
10 INTERIOR AIR FILM	0.12
EFFECTIVE RSI/R VALUE OF ENTIRE ASSEMBLY	3.82

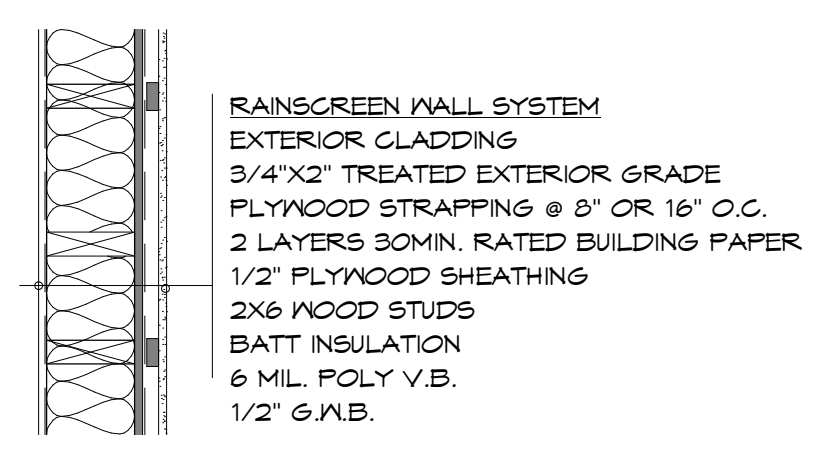
- MIN. RSI 2.78

THIS ASSEMBLY MEETS THE MINIMUM REQUIRED RSI VALUE REGARDLESS OF APPLIED EXTERIOR FINISH

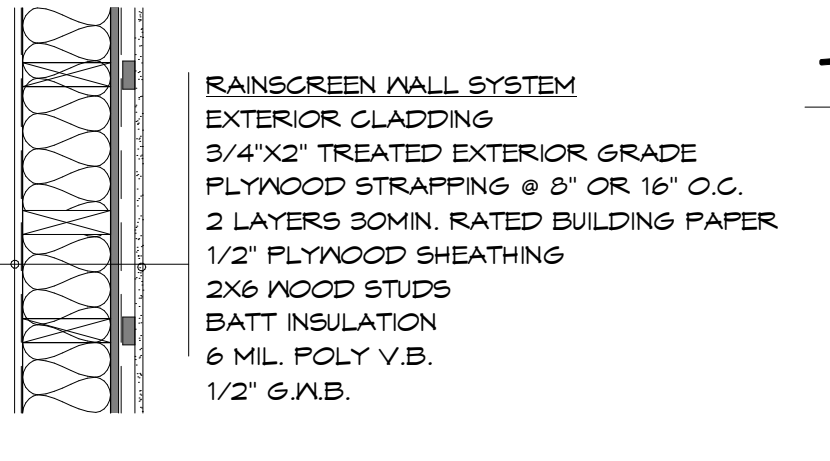
WALL ASSEMBLY COMPONENTS	RSI
1 EXTERIOR AIR FILM	0.03
2 1/2" (12.7MM) GYPSUM BOARD	0.08
3 2X4 FRAMING FILLED W/ R14 BATT @ 16" O.C.	1.62
4 2" RIGID INSULATION	1.68
5 1/2" (12.7MM) GYPSUM BOARD	0.08
6 POLYETHYLENE	0.00
7 FINISH: 1 COAT PRIMER/PAINT	0.00
8 INTERIOR AIR FILM	0.12
EFFECTIVE RSI/R VALUE OF ENTIRE ASSEMBLY	3.98

- MIN. RSI 2.62

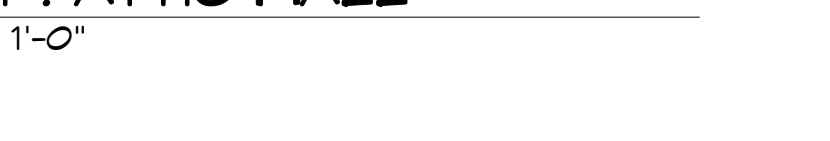
THIS ASSEMBLY MEETS THE MINIMUM REQUIRED RSI VALUE REGARDLESS OF APPLIED EXTERIOR FINISH



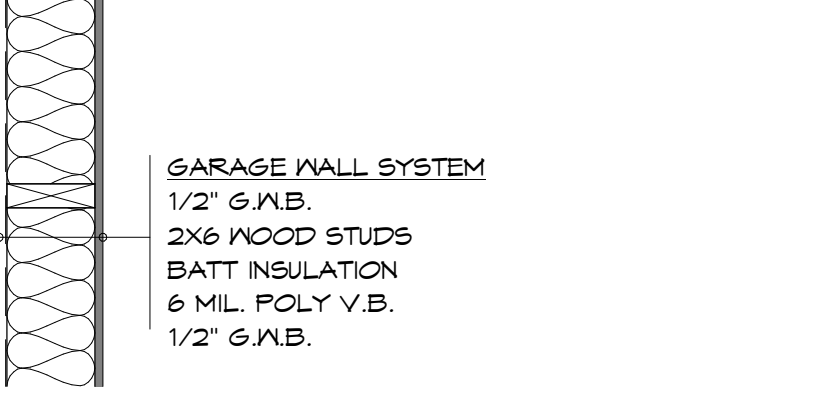
TYP. EXTERIOR WALL
1" = 1'-0"



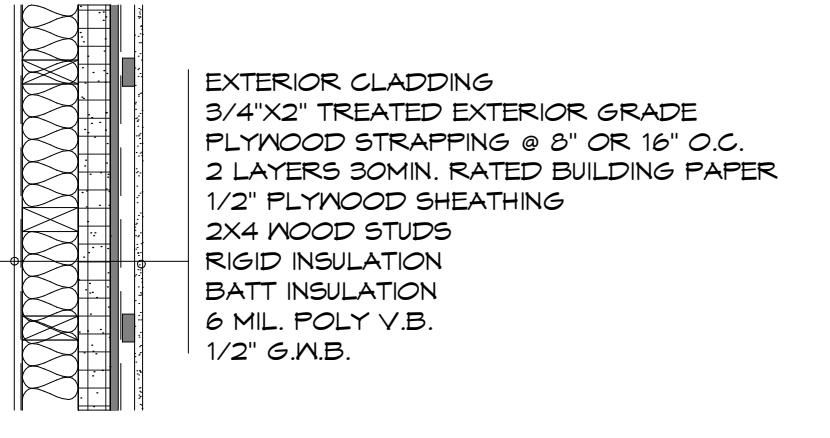
TYP. RIM JOIST @ 11.7/8" ENG. FLOOR
1" = 1'-0"



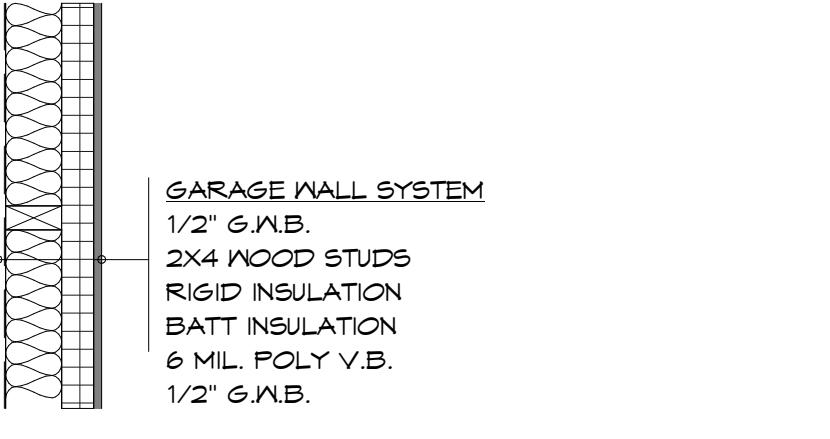
TYP. ATTIC WALL
1" = 1'-0"



TYP. GARAGE WALL
1" = 1'-0"



TYP. WALL W/ WATERLINES
1" = 1'-0"



GARAGE WALL W/ WATERLINES
1" = 1'-0"

MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE = RSI 2.78 (R-15.9) ENG. FLR. JSTB. @ 16" O.C. W/R20 BATT INSULATION

CONTINUOUS ELEMENTS	RSI	R
- ENG. JOIST RIM BOARD	0.325	1.85
- 1/2" PLYWOOD SHEATHING	0.11	0.62
- AIR BARRIER/SHEATHING MEMBRANE	0.00	0.00
- 3/8" CAPILLARY BREAK SPACE	0.18	0.95
- 1/4" FIBRE-CEMENT GLADDING	0.03	0.17
- EXTERIOR AIR FILM	0.03	0.17
	0.638	3.62

CAVITY RSI (PARALLEL)	RSI	R
100	12.5	87.5
	1.14	3.52
		2.82 RSI (R15.94)

TOTAL EFFECTIVE INSULATION VALUE	RSI	R
	3.458	(R19.61)

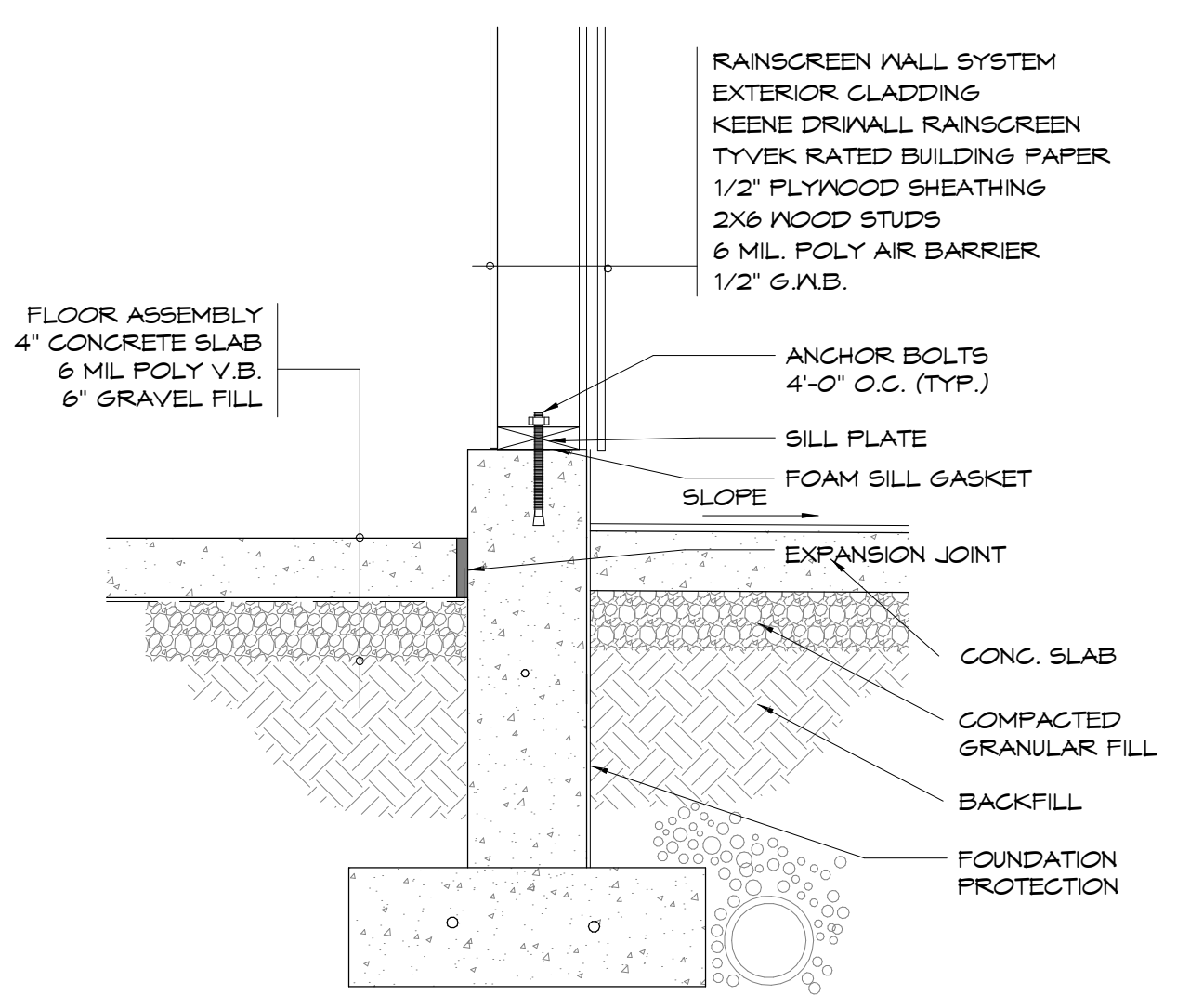
CONCRETE WALL

WALL ASSEMBLY COMPONENTS	RSI	R
1 GRADE	0.00	0.00
2 2 LAYERS MOPPED SEAL	0.21	1.19
3 CAST IN PLACE CONCRETE WALL	0.08	0.45
3 2" EXTRUDED POLYSTYRENE (R10)	1.76	9.99
EFFECTIVE RSI/R VALUE OF ENTIRE ASSEMBLY	2.05	11.64

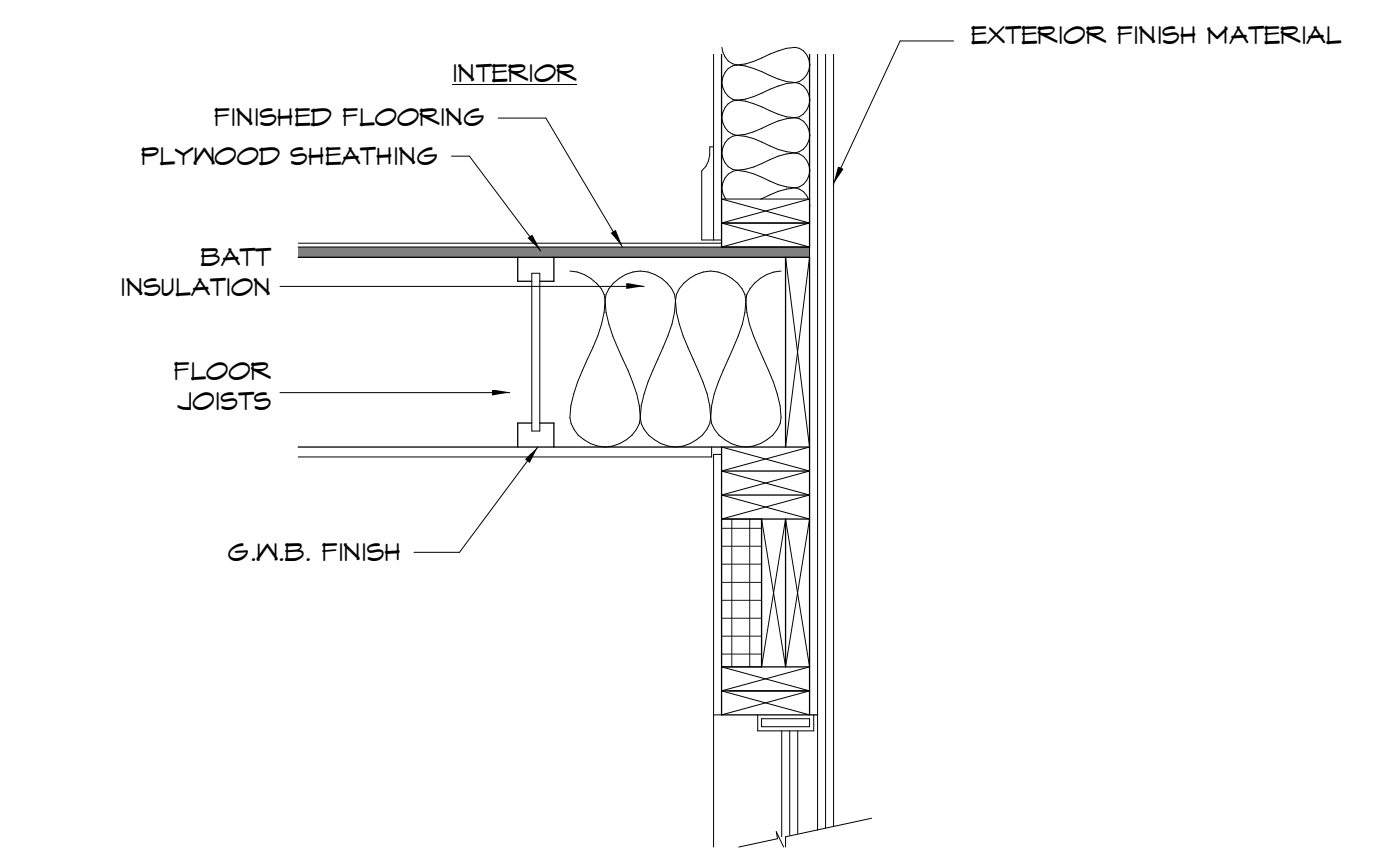
CONCRETE SLAB

FLOOR ASSEMBLY COMPONENTS	RSI	R
1 INTERIOR AIR FILM	0.12	0.68
2 HARDWOOD FLOORING	0.12	0.68
3 CAST IN PLACE CONCRETE FLOOR	0.04	0.23
4 2" EXTRUDED POLYSTYRENE	1.96	11.13
5 6" CRUSHED GRAVEL FILL	0.67	3.80
REQD EFFECTIVE RSI/R VALUE	1.96	11.13
EFFECTIVE RSI/R VALUE OF ENTIRE ASSEMBLY	2.91	16.52

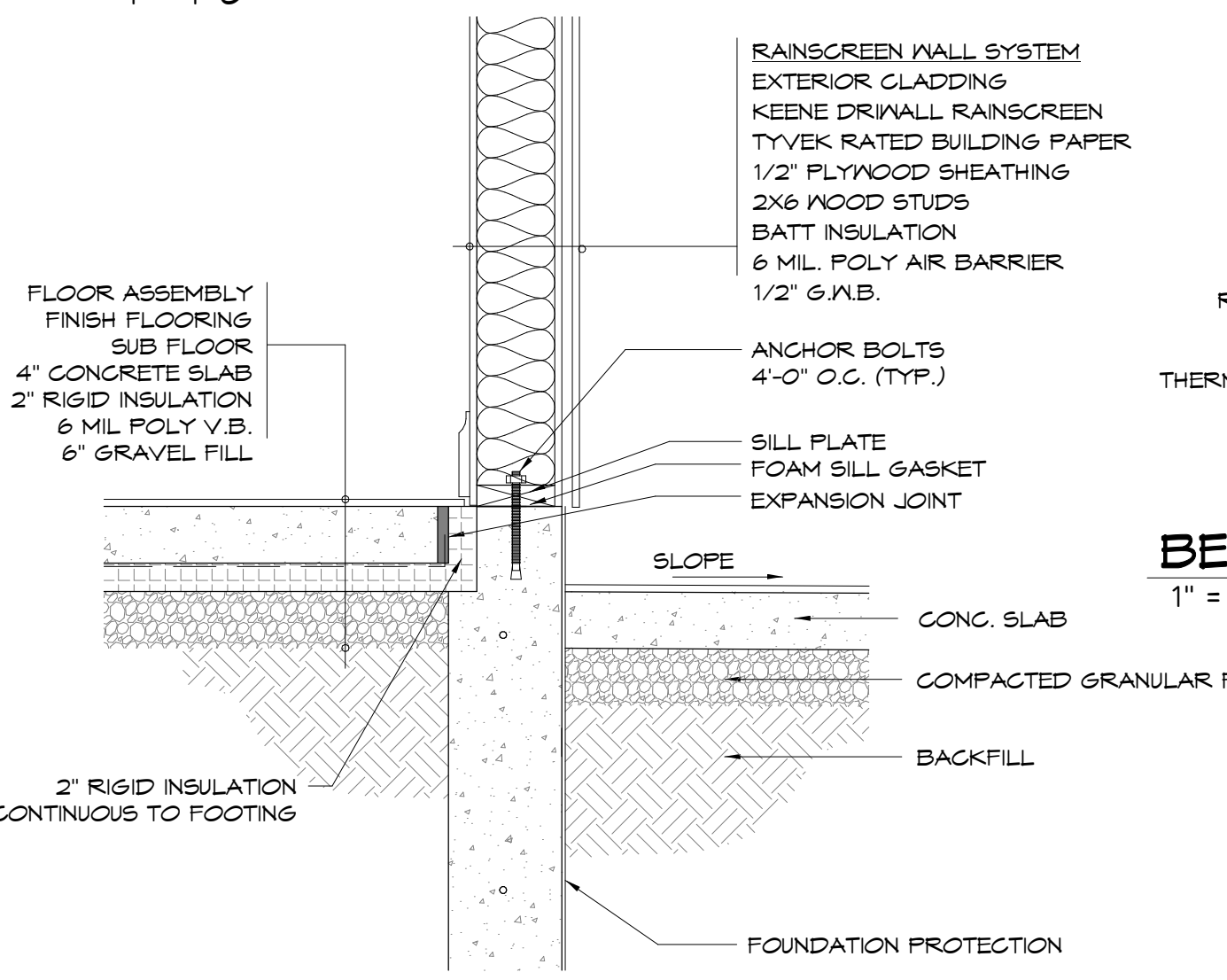
TYP. SLAB ON GRADE ENTRY
1" = 1'-0"



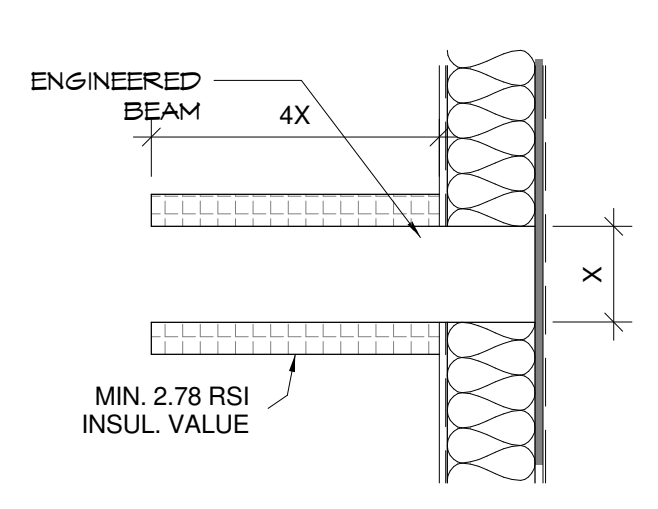
TYP. GARAGE SLAB @ EXTERIOR WALL
1" = 1'-0"



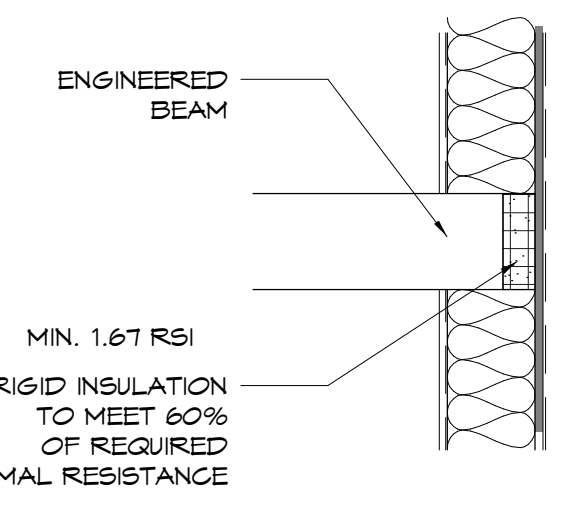
TYP. ENG. FLOOR @ EXTERIOR WALL
1" = 1'-0"



BEAM / WALL- PLAN DETAIL 2
1" = 1'-0"



BEAM / WALL - PLAN DETAIL 1
1" = 1'-0"



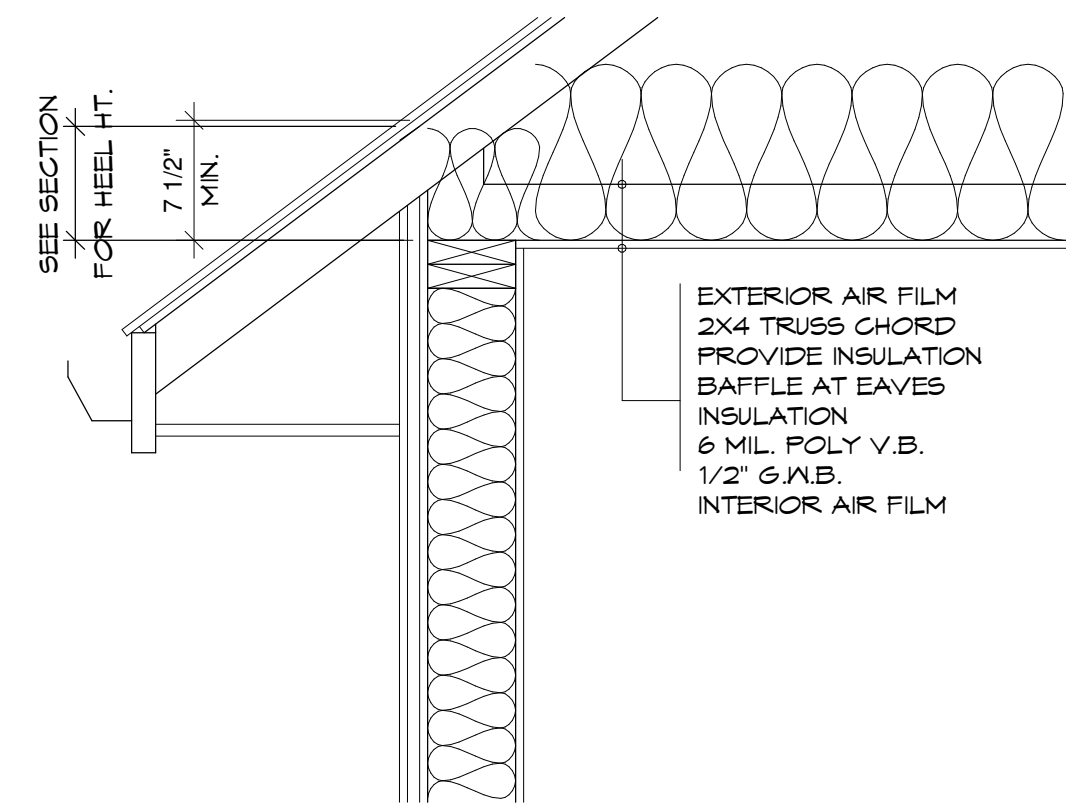
BEAM / WALL- PLAN DETAIL 2
1" = 1'-0"

COPPER CANYON

SU CASA
DESIGN

ADDRESS: 2648 MONTROSE AVE. ABBOTSFORD, BC TEL: (604) 864-4903 EMAIL: INFO@SUCASADSGNCA

PROJECT	
TITLE DETAILS	
SCALE 1" = 1'-0"	SHEET NUMBER A5.0
DATE 2/4/2024 4:00:07 PM	

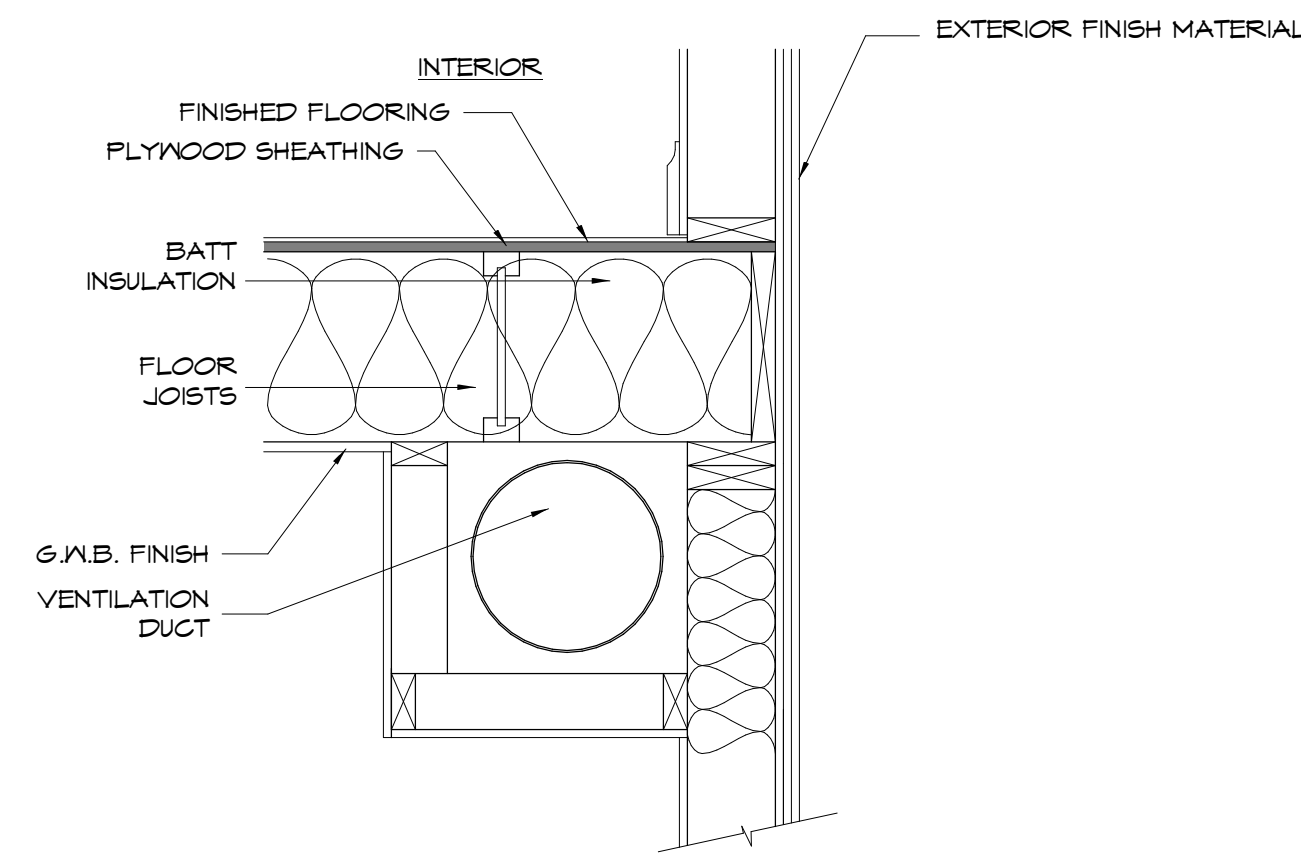


TYP. CEILING/ROOF EAVE
1" = 1'-0"

CEILING DETAIL

CEILING ASSEMBLY COMPONENTS	RSI	
1 EXTERIOR AIR FILM	0.03	
2 2X4 FRAMING FILLED W/ R50 BLOWN GLASS INSULATION @ 24" O.C.	7.19	5.71 INSULATION 1.48 CAVITY
3 POLYETHYLENE	0.00	
4 1/2" (12.7MM) GYPSUM BOARD	0.06	
5 FINISH: 1 COAT PRIMER/PAINT	0.00	
6 INTERIOR AIR FILM	0.11	
EFFECTIVE RSI VALUE OF ENTIRE ASSEMBLY	7.39	

MIN. RSI 6.91



TYP. DUCTING DROP DETAIL
1" = 1'-0"

AS PER LOCAL BUILDING CODE - NOTES PERTAINING TO LEAKAGE PATHS IN PROBLEMATIC AREAS

- FOUNDATION TO SILL PLATE AND RIM JOISTS
ALL JOISTS AT THE TRANSITION BETWEEN THE FOUNDATION WALL AND THE ABOVE GRADE WALL MUST BE MADE AIR-TIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL

- INTERIOR WALL INTERFACE
INTERIOR WALLS THAT MEET EXTERIOR WALLS OR CEILINGS WITH AN INTERIOR PLANE OF AIR TIGHTNESS MUST BE MADE AIRTIGHT BY EITHER SEALING ALL JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL OR MAINTAINING THE CONTINUITY OF THE AIR BARRIER SYSTEM THROUGH THE INTERIOR WALL

- RIM JOIST
ALL JOINTS AT THE RIM JOIST ASSEMBLY MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL

- CANTILEVERED FLOOR
CANTILEVERED FLOORS AND FLOORS OVER UNHEATED SPACES/EXTERIOR SPACE MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS AND/OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL

- WINDOW HEAD
THE INTERFACE BETWEEN THE HEAD/JAMS AND WALL ASSEMBLY MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE AIR BARRIER IN THE WALL AND WINDOW. THE REQUIREMENT ALSO APPLIES TO DOORS AND SKYLIGHTS

- WINDOW SILL
THE INTERFACE BETWEEN WINDOW SILL AND WALL ASSEMBLY MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE AIR BARRIER IN THE WALL AND WINDOW. THE REQUIREMENT ALSO APPLIES TO DOORS AND SKYLIGHTS

- MECHANICAL FLUES AND CHIMNEYS
STEEL-LINED CHIMNEYS THAT PENETRATE THE BUILDING ENVELOPE MUST BE MADE AIRTIGHT BY BLOCKING THE VOID BETWEEN REQUIRED CLEARANCES FOR METAL CHIMNEYS AND SURROUNDING CONSTRUCTION WITH SHEET METAL SEALAND CAPABLE OF WITHSTANDING HIGH TEMPERATURES

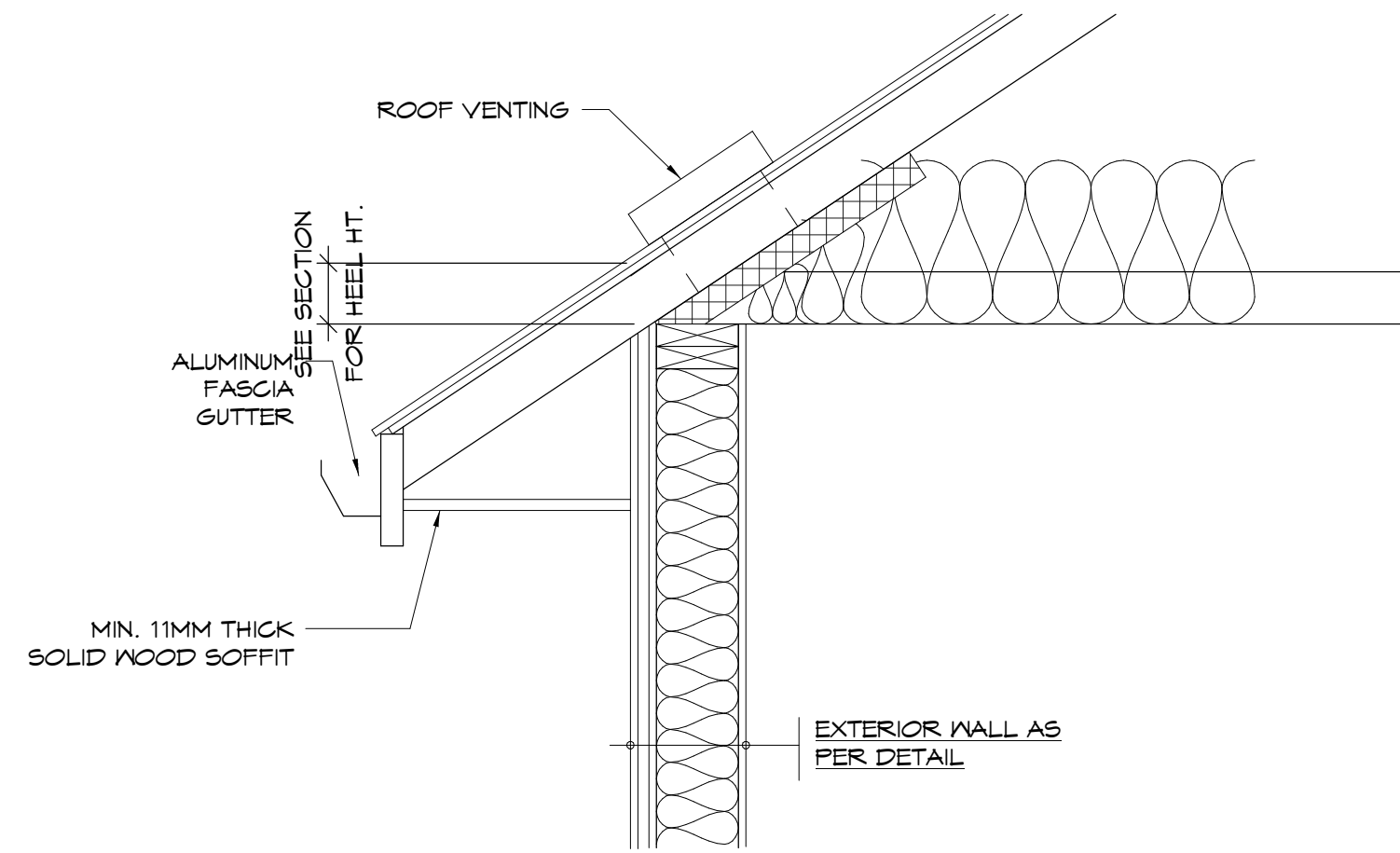
- PLUMBING STACKS
PLUMBING VENT STACK PIPES THAT PENETRATE THE BUILDING ENVELOPE MUST BE MADE AIRTIGHT BY EITHER SEALING THE AIR BARRIER MATERIAL TO THE VENT PIPE WITH A COMPATIBLE MATERIAL OR SHEATHING TAPE OR INSTALLING A RUBBER GASKET OR PREFABRICATED ROOF FLASHING AT THE PENETRATION OF THE PLANE OF AIRTIGHTNESS AND SEALING IT TO THE TOP PLATE

- SKYLIGHTS
THE INTERFACE BETWEEN THE SKYLIGHT AND THE WALL ASSEMBLY MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE AIR BARRIER MATERIAL IN THE WALL AND THE SKYLIGHT

- WALL TO CEILING
ALL JOINTS AT THE TRANSITION BETWEEN THE ABOVE GRADE WALL AND CEILING MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS AND/OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL

- WALL VENTED DUCTS
DUCT PENETRATIONS THROUGH THE BUILDING ENVELOPE MUST HAVE AN AIRTIGHT SEAL

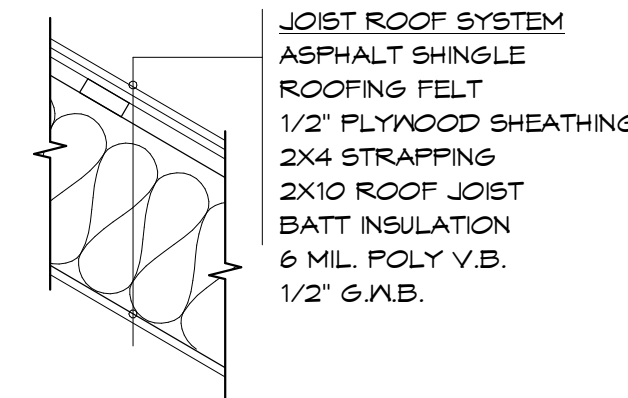
- ELECTRICAL PENETRATION IN WALL
ELECTRICAL PENETRATIONS IN WALLS, INCLUDING ELECTRICAL OUTLETS, WIRING, SWITCHES, AND RECESSED FIXTURES THROUGH THE PLANE OF AIRTIGHTNESS MUST BE AIRTIGHT. OPTIONS INCLUDE USING A COMPONENT THAT IS DESIGNED TO BE AIRTIGHT AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL OR BY COVERING THE COMPONENT WITH AN AIR BARRIER MATERIAL AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL



TYP. SOFFIT PROTECTION
1" = 1'-0"

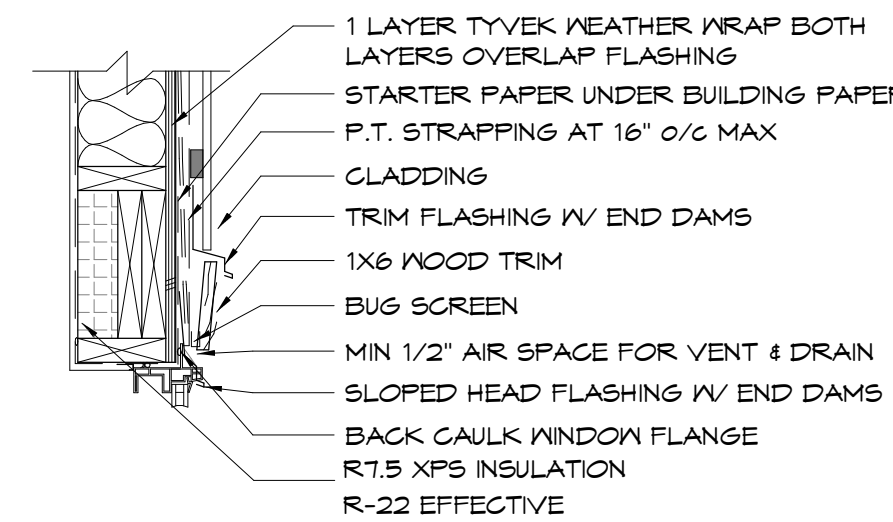
ROOF ASSEMBLY COMPONENTS	RSI	R
1 EXTERIOR AIR FILM	0.03	0.17
2 ASPHALT SHINGLES	0.00	0.00
3 ROOFING FELT	0.00	0.00
4 1/2" (12.5MM) PLY. SHEATHING W/ STRAPPING	0.11	0.62
5 2X10 ROOF JOIST @ 16" O.C	2.00	13.81
6 INSULATION R33 BATT IN CAVITY	5.80	33.00
7 POLYETHYLENE	0.00	0.00
8 1/2" (12.7MM) GYPSUM BOARD	0.06	0.45
9 FINISH: 1 COAT PRIMER/PAINT	0.00	0.00
10 INTERIOR AIR FILM	0.12	0.68
EFFECTIVE RSI/R VALUE OF ENTIRE ASSEMBLY	5.05	28.64
INSTALLED INSULATION RSI/R VALUE (NOMINAL)	5.80	33.00

TYP. 2X10 CATHEDRAL ROOF
1" = 1'-0"

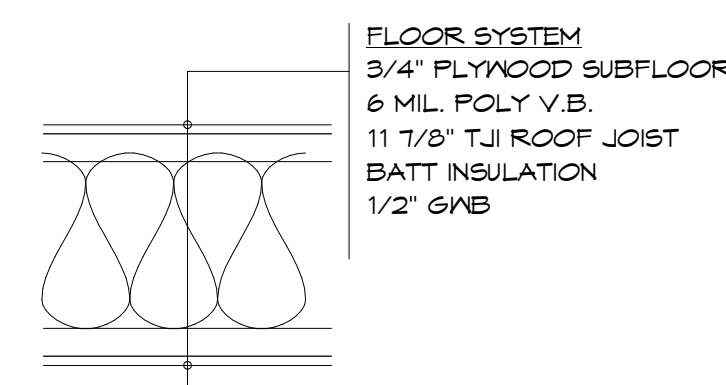


WALL ASSEMBLY COMPONENTS	RSI
1 INTERIOR AIR FILM	0.12
2 FINISHED FLOORING	0.00
3 UNDERLAY	0.14
4 3/4" (19MM) SUB FLOOR	0.11
5 11 1/8" FRAMING FILLED @ 12" O.C. (R31 BATT)	4.8
6 POLYETHYLENE	0.00
7 1/2" (12.7MM) GYPSUM BOARD	0.06
8 FINISH: 1 COAT PRIMER/PAINT	0.00
9 EXTERIOR AIR FILM	0.03
EFFECTIVE RSI/R VALUE OF ENTIRE ASSEMBLY	5.32

- MIN. RSI 4.67



TYP. WINDOW HEAD
1" = 1'-0"



TYP. ENG. FLOOR UNCONDITIONED SPACE
1" = 1'-0"

REVISIONS

COPPER CANYON

SU CASA
DESIGN

EMAIL: INFO@SU.CASADESIGN.COM

TEL: (604) 864-4303

ADDRESS: 2643 MONTROSE AVE. ABBOTSFORD, BC

PROJECT	
TITLE DETAILS	
SCALE As indicated	SHEET NUMBER A5.1
DATE 2/4/2024 4:00:07 PM	