

SHEET INDEX

<u>ARCHITECTURAL</u>	
COVER PAGE	T-1
SITE/GRADING PLAN	G1.01
FLOOR PLAN	A1.01
CEILING PLAN	A1.02
ELEVATIONS AND ROOF PLAN	A2.01
SECTIONS VIEWS	A3.01
SECTIONS VIEWS	A3.02
SECTIONS VIEWS	A3.03
ARCHITECTURAL DETAIL VIEWS	A5.01
DOOR, WINDOW, & FASTENER SCHEDULES	A5.02
<u>STRUCTURAL</u>	
FOUNDATION PLAN	SI.01
FLOOR FRAMING PLAN	SI.02
CEILING FRAMING PLAN	SI.03
ROOF FRAMING PLAN	SI.04
STRUCTURAL BEAM PLAN	SI.05
STRUCTURAL DETAIL VIEWS	SI.06
STRUCTURAL DETAIL VIEWS	SI.07
BRACED WALL LINE PLAN	SI.08
<u>PLUMBING</u>	
SEWER LINE PLAN	P1
WATER LINE PLAN	P2
GAS LINE PLAN	P3
<u>MECHANICAL</u>	
MECHANICAL PLAN	MI
<u>ELECTRICAL</u>	
ELECTRICAL PLAN	EI

SUMMARY

PARCEL	402-04-276L
LEGAL JURISDICTION	DEWEY-HUMBOLDT
ZONING	RIL-70
SETBACKS - ZONING	
FRONT	50'
SIDE (INTERIOR)	25'
SIDE (EXTERIOR)	30'
REAR	50'
BUILDING CODE	2012 IRC
ENERGY CODE	2012 EEC
BUILDING AREAS	
TOTAL FINISHED LIVING AREA	3620SF
GARAGE	860SF
PORCH ROOFS (>4' OVERHANG)	511SF
GROSS ROOF AREA WITH OVERHANGS	4991SF

NEW SINGLE FAMILY RESIDENCE FOR  
**ADAM & MAGGIE GOLDENSTEIN**

10685 E ROCKY HILL RD  
DEWEY, AZ 86327



DEFERRED SUBMITTALS

ALL DEFERRED SUBMITTALS TO BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION  
1. PRE-FAB SCISSOR TRUSSES FOR HOUSE.  
2. PRE-FAB METAL SHOP BUILDING.

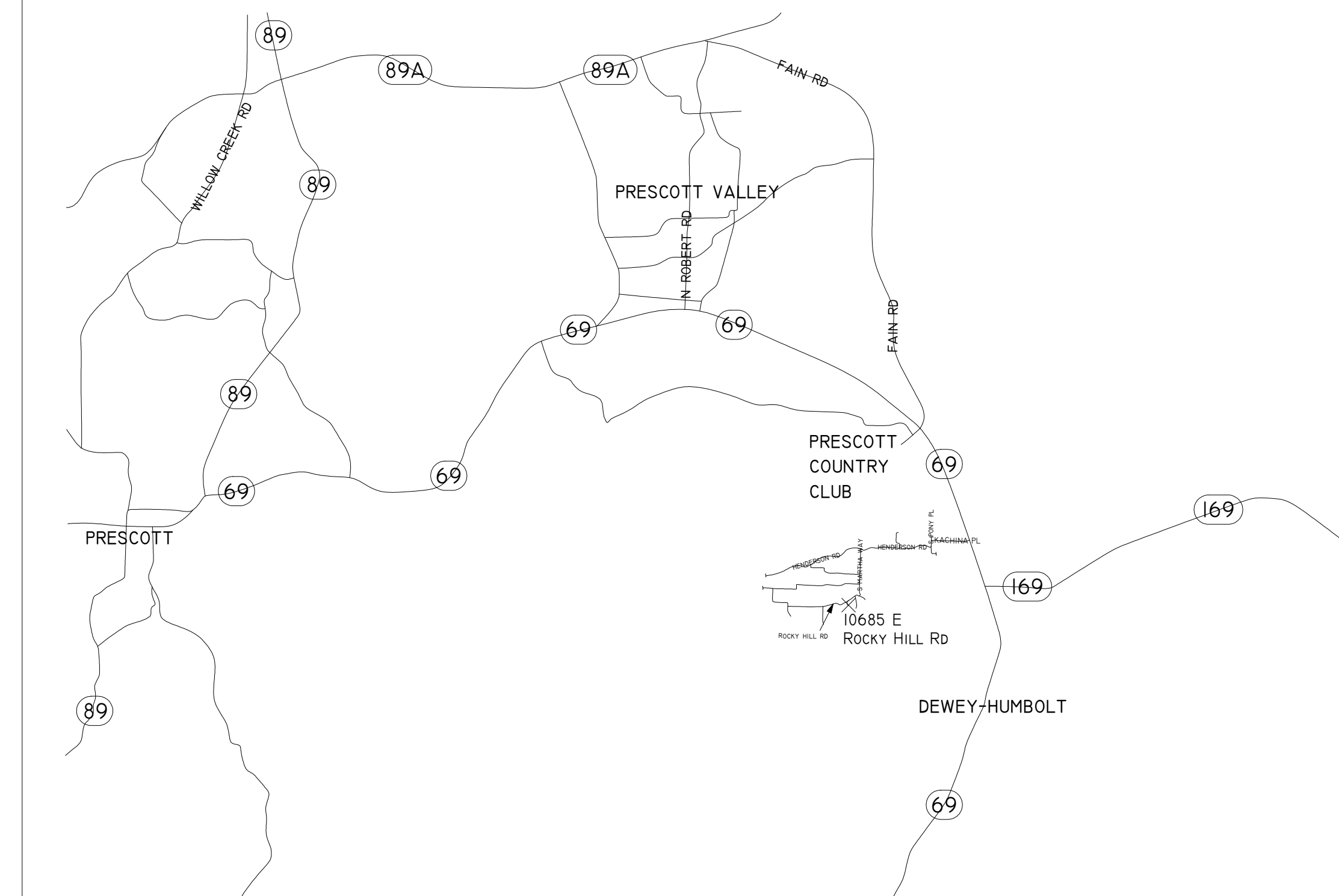
DESIGNED BY

ADAM GOLDENSTEIN  
11136 E HAVASUPAI TRAIL  
DEWEY, AZ 86327  
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BUILDER

ADAM GOLDENSTEIN  
11136 E HAVASUPAI TRAIL  
DEWEY, AZ 86327  
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VICINITY MAP



General Notes

No.	Revision/Issue	Date

Sheet Title  
**COVER PAGE**

Project Name and Address  
**GOLDENSTEIN RESIDENCE**  
10685 E ROCKY HILL RD  
DEWEY, AZ 86327

Drawn By  
ADAM GOLDENSTEIN  
Date  
3/22/2018  
Scale

Sheet  
**T-1**



**GRADING NOTES**

1. BUILDING AREA AND DRIVEWAYS TO BE IMPROVED VIA CUT AND FILL TECHNIQUE.
2. BUILDING FOUNDATIONS SHALL REST ON UNDISTURBED SOIL AND NOT FILL.
3. CONCRETE SLAB-ON-GROUND FLOORS MAY HAVE FILL CONSISTING OF UP TO 24" OF CLEAN SAND OR GRAVEL FILL AND 8" OF CLEAN EARTH PROVIDED IT IS WELL COMPACTED.
4. EXCESS SOIL MATERIAL GENERATED FROM EARTHWORK MAY BE USED TO BUILD UP DRIVEWAYS.
5. GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING A MINIMUM OF 6' WITHIN THE FIRST 10' OR PER IRC R4.01.3.
6. SLOPES LESS THAN 1H:1.5V DO NOT REQUIRE ANY SPECIAL FINISHING.
7. NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN EIGHT INCHES (8") SHALL BE ALLOWED IN FILLS IN THE ABSENCE OF A SOILS REPORT AND INSPECTION BY A SOILS ENGINEER.
8. ALL FILLS SHALL BE COMPACTED, (DENSIFICATION OF FILL BY MECHANICAL MEANS) TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D1557 TEST PROCEDURES AND VERIFIED BY AN ENGINEERED FILL COMPACTION REPORT WHEN SUPPORTING A STRUCTURE.
9. ALL NATIVE SLOPES GREATER THAN 5H:1V AND UNDERLYING ENGINEERED FILL ZONES SHALL BE BENCHMARKED TO FORM HORIZONTAL SURFACES.
10. THE FACES OF CUT AND FILL SLOPES SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION. THIS CONTROL MAY CONSIST OF EFFECTIVE PLANTING.
11. ALL FILLS OVER 2 FEET IN DEPTH REQUIRE COMPACTION.
12. MAXIMUM SLOPE FOR DRIVEWAYS IS 15% FOR AN UNPAVED SURFACE AND 20% FOR A PAVED SURFACE.

**LOT SIZE AND ZONING REQUIREMENTS FOR RIL-70**

PROPOSED BUILDING GROUND AREA (S.F.)	ZONING REQ	HOUSE	SHOP	TOTAL
ACTUAL LOT AREA (S.F.)	-	4,480	2,484	6,964
MIN LOT SIZE (S.F.)	70,000	-	-	-
MIN AREA PER DWELLING (S.F.)	70,000	-	-	-
MIN LOT WIDTH AND DEPTH (FT)	200	-	-	-
MIN YARD SETBACK FRONT (FT)	50	50	50	-
MIN YARD SETBACK REAR (FT)	50	50	50	-
MIN YARD SETBACK INTERIOR (FT)	25	25	25	-
MIN YARD SETBACK EXTERIOR (FT)	30	30	30	-
MAX BUILDING HEIGHT STORIES	2	1	2	-
MAX BUILDING HEIGHT (FT)	30	23	21	-
MAX LOT COVERED (5)	15	2.40%	1.33%	3.74%
MIN BUILDING SPACING (FT)	10	-	-	-

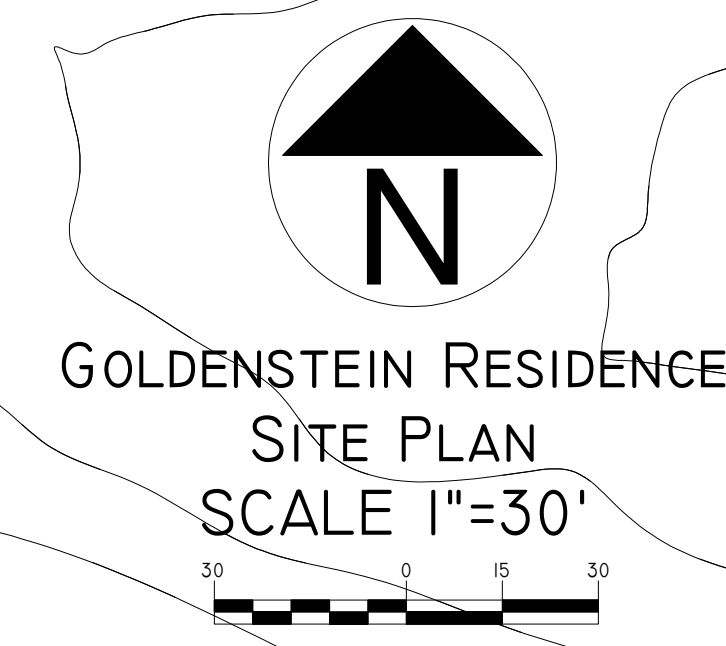
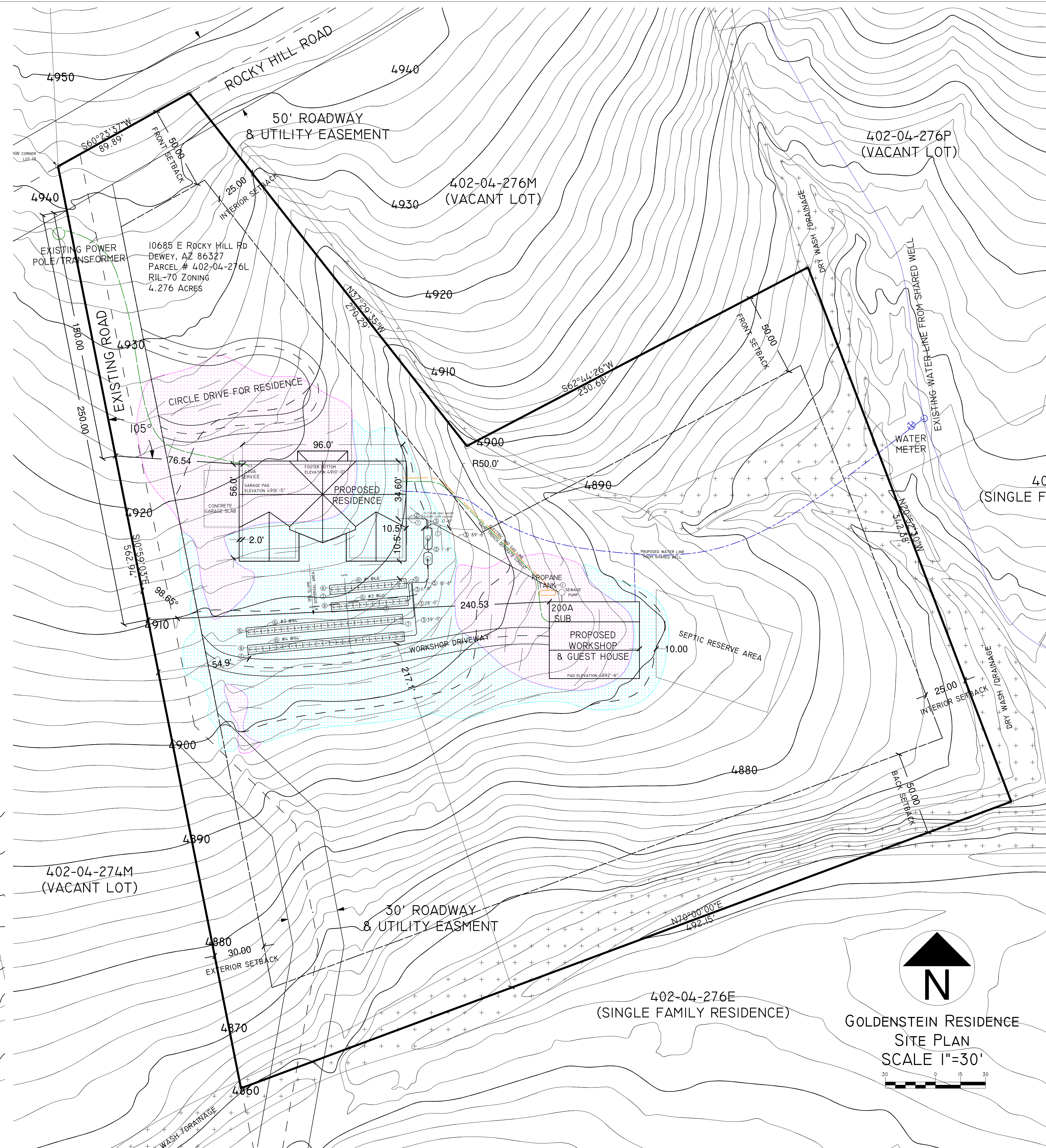
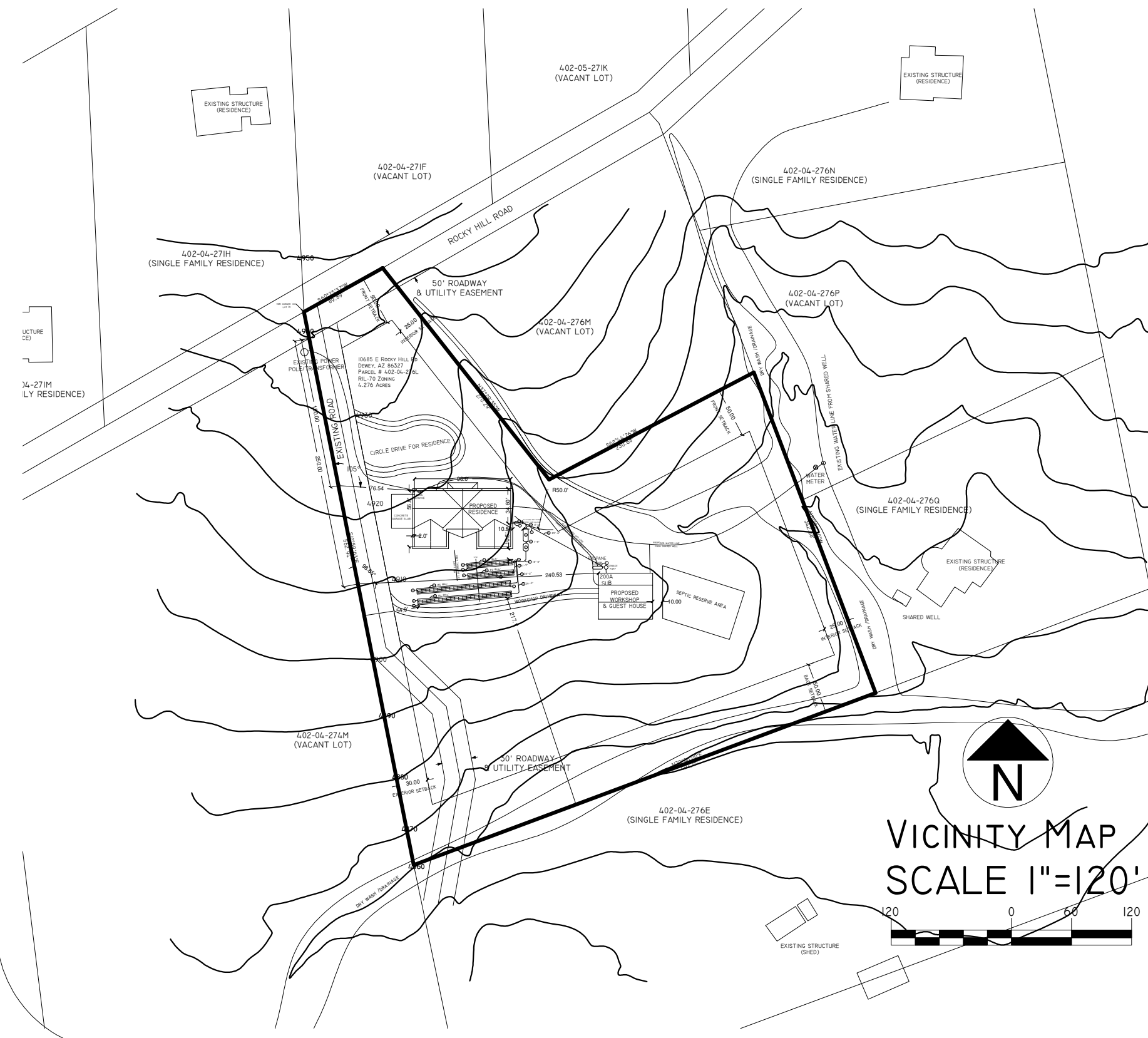
**SEPTIC COMPONENT KEYNOTES**

- 1 2-WAY CLEANOUT
- 2 GRAY WATER VALVE
- 3 4" SDR-35 OR SCHD-40\* SEWER PIPE
- 4 1500 / 750 GAL SINGLE COMPARTMENT SEPTIC TANKS\*\* MEETING ALL REQUIREMENTS OF R18-9-A314
- 5 DISTRIBUTION BOX SET ON LEVELED MASONRY SURFACE
- 6 ELJEN ENGINEERED PAD TRENCH PER SEPTIC PLAN
- 7 INSPECTION PIPES
- 8 4" VENT PIPE AT END OF EACH TRENCH

\*SDR-35 "HIGH STRENGTH" PIPE SHALL BE USED WHEN PIPE IS GREATER THAN 2' BELOW GRADE.  
 \*\*POLYTANK SHOWN: SNYDER NEXGEN D2 1500 / 750 ONE COMPARTMENT TANK

**LEGEND**

- GRADING CUT AREA
- GRADING FILL AREA
- ROAD/DRIVEWAY
- WATER LINE
- ELECTRIC LINE
- GAS LINE
- EXISTING CONTOUR LINE
- NEW CONTOUR LINE
- DRY WASH



General Notes

**INITIAL RELEASE**

No.	Revision/Issue	Date
		3/12/18

**SITE/GRADING PLAN**  
**GRADING CONTOURS**

**GOLDENSTEIN RESIDENCE**  
 10685 E ROCKY HILL RD  
 DEWEY, AZ 86327

Drawn By ADAM GOLDENSTEIN	Sheet GI.01
Date 3/22/2018	
Scale 1"=30'	



No.	Revision/Issue	Date

FLOOR PLAN

Sheet Title

**GOLDENSTEIN RESIDENCE**  
 10685 E ROCKY HILL RD  
 DEWEY, AZ 86327

Project Name and Address

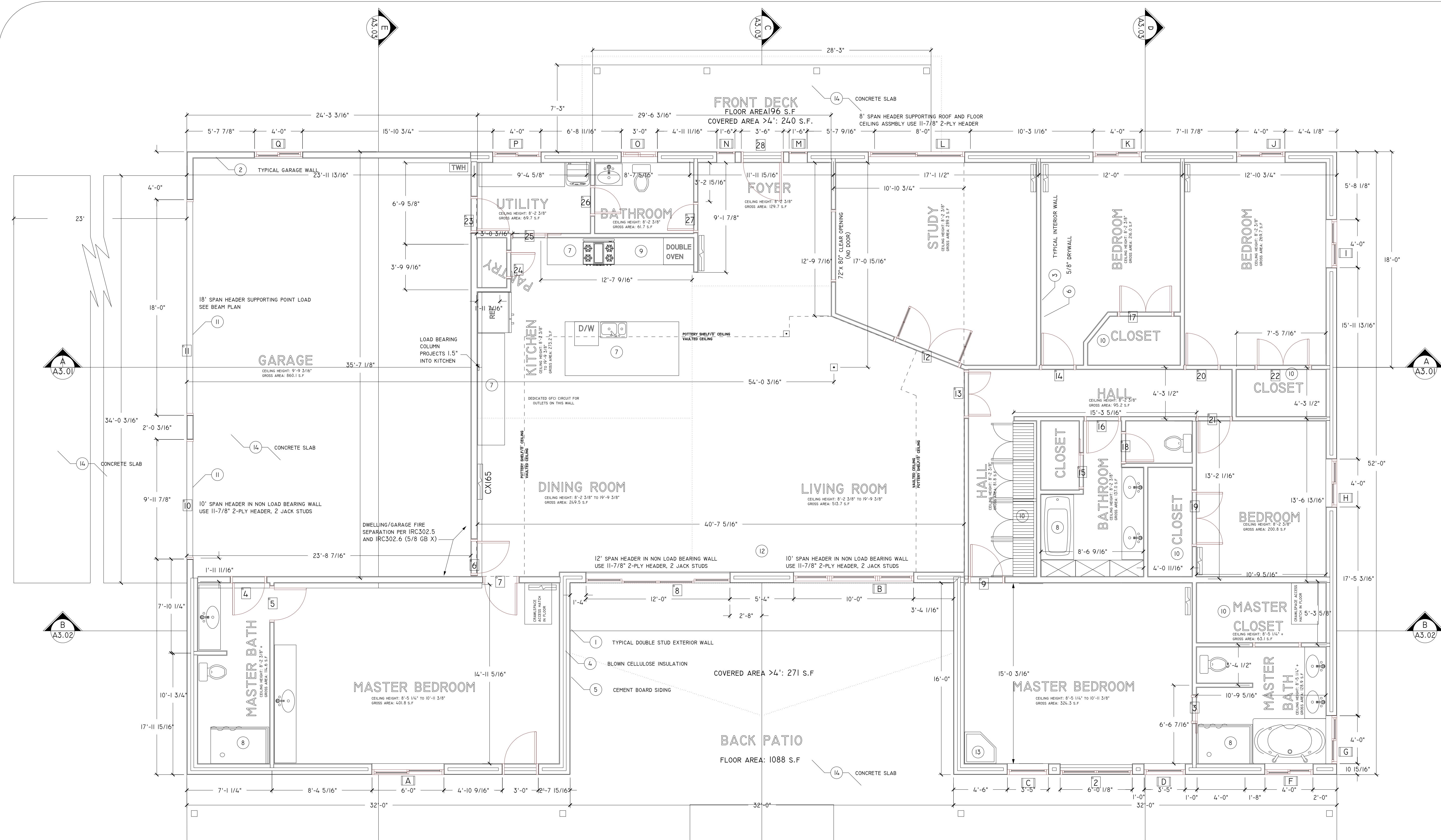
Drawn By  
ADAM GOLDENSTEIN

Date  
3/22/2018

Scale  
1/4" = 1'-0"

Sheet

AI.01



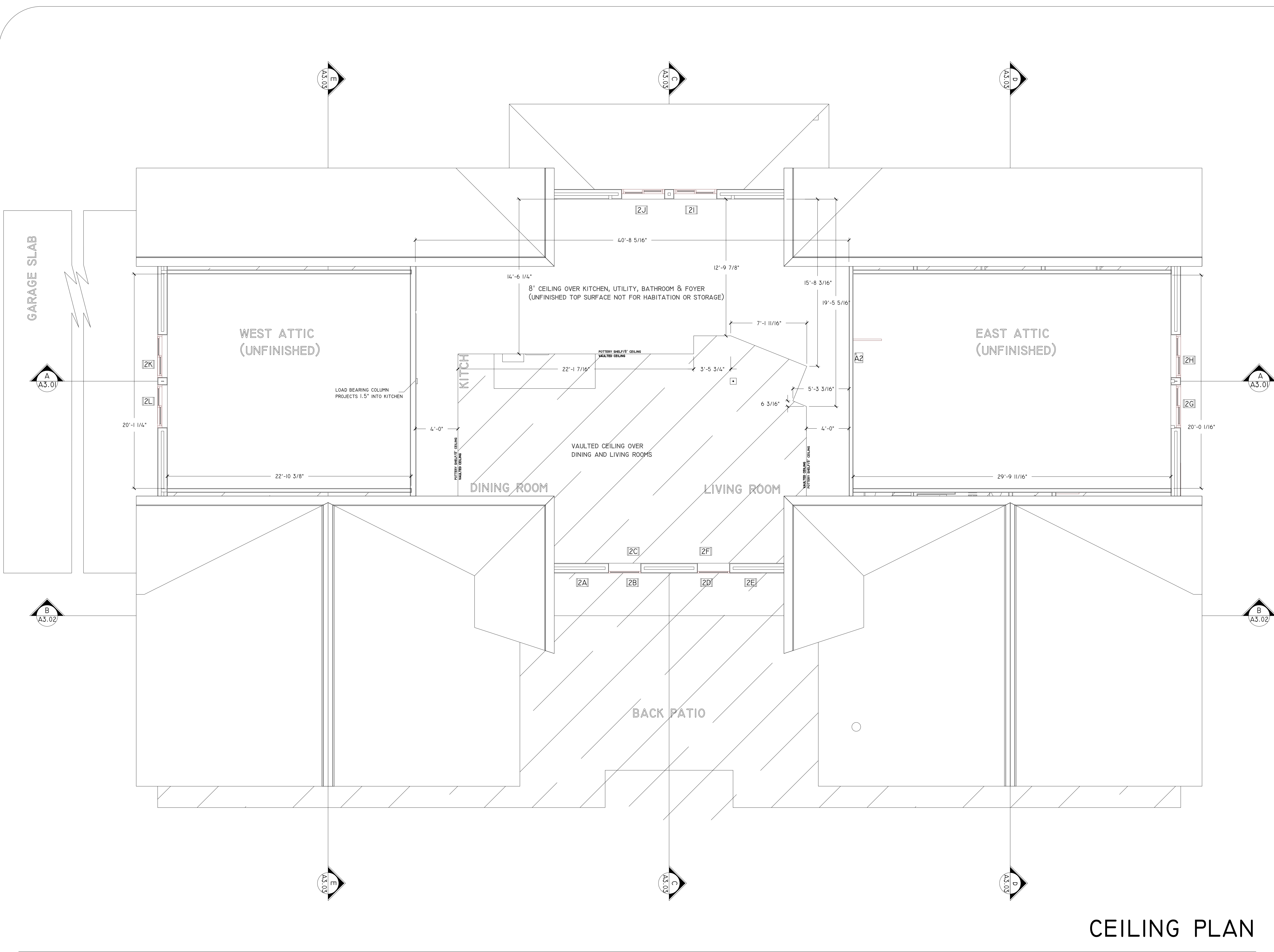
- LEGEND**
- HEATING/COOLING FAN COIL WITH INTEGRATED THERMOSTAT SEE 'MECHANICAL PLAN' FOR MORE INFO AND VENTILATION DUCTS
  - WINDOW, SEE 'DOOR, WINDOW AND FASTENER SCHEDULES'
  - DOOR, SEE 'DOOR, WINDOW AND FASTENER SCHEDULES'

**DEFERRED TRUSS SUBMITAL NOTE**

TRUSS MANUFACTURER'S CALCULATIONS FOR PRE-FAB SCISSOR TRUSSES OVER THE MASTER BEDROOMS SHALL BE SUBMITTED TO TOWN OF DEWEY-HUMBOLDT FOR REVIEW & APPROVAL PRIOR TO INSTALLATION. TRUSS CALCS MUST BE SIGNED, DATED & SEALED BY A REGISTERED ARIZONA ENGINEERING. THERE WILL BE NO FURTHER SUBMITTAL FOR THE TRUSS JOISTS FOR THE MAIN BUILDING SECTIONS OF THE ROOF OR ROOF ASSEMBLY OR ANY OTHER PARTS OF THE BUILDING DESIGN.

- FLOOR PLAN KEYNOTES**
- TYPICAL EXTERIOR WALL (NOT GARAGE): DOUBLE STUD 2X4 WALL @ 24" O.C. 10" THICK
  - TYPICAL EXTERIOR WALL (GARAGE): CONVENTIONAL 2X6 STUD WALL @ 24" O.C.
  - TYPICAL INTERIOR WALL: CONVENTIONAL 2X4 STUD WALL @ 24" O.C.
  - TYPICAL INSULATION: BLOWN CELLULOSE IN DOUBLE STUD WALLS, RIGID INSULATION ON INTERIOR OF STEM WALL, FIBERGLASS BATT EVERYWHERE ELSE.
  - TYPICAL EXTERIOR FINISH: FIBER CEMENT BOARD SIDING.
  - TYPICAL INTERIOR FINISH: 5/8" DRYWALL.
  - BASE CABINETS TO +36" WITH TOP, SPLASH, & EDGE SELECTED BY OWNER.
  - SHOWER/BATH WAINSCOTT TO +7" PER IRC R702.3.8/R702.4
  - APPLIANCES SELECTED BY OWNER
  - BUILD OUT CLOSET PER OWNER REQUIREMENTS
  - SECTIONAL GARAGE DOOR
  - WOOD BURNING STOVE PER OWNERS REQUIREMENTS
  - GAS BURNING FIRE PLACE PER OWNERS REQUIREMENTS
  - CONCRETE SLAB PER FOUNDATION PLAN

FLOOR PLAN



General Notes

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No.	Revision/Issue	Date

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**CEILING PLAN**

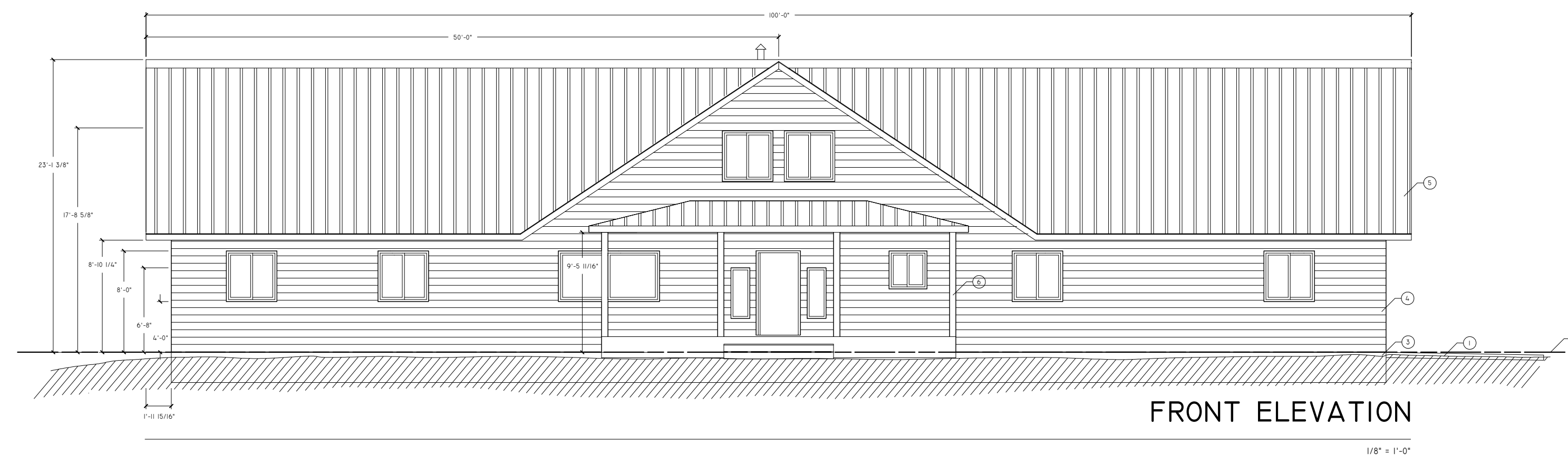
Project Name and Address  
**GOLDENSTEIN RESIDENCE**  
10685 E ROCKY HILL RD  
DEWEY, AZ 86327

Drawn By  
ADAM GOLDENSTEIN  
Date  
3/22/2018  
Scale  
1/4" = 1'-0"

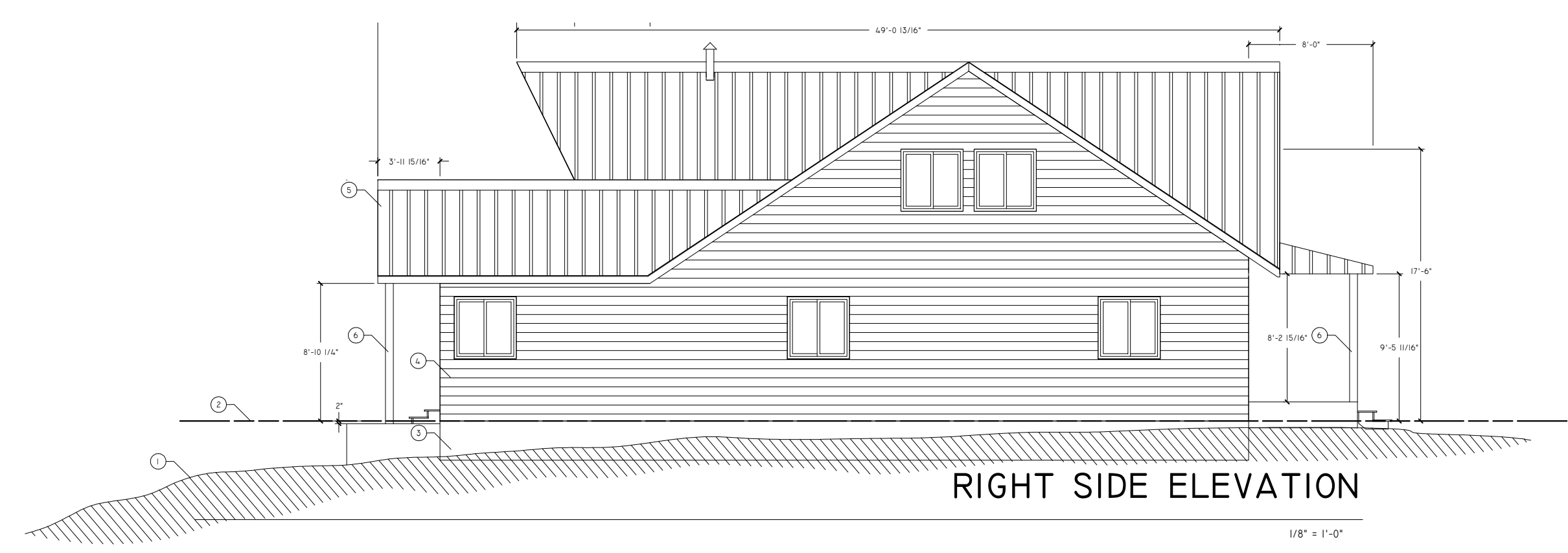
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**CEILING PLAN**

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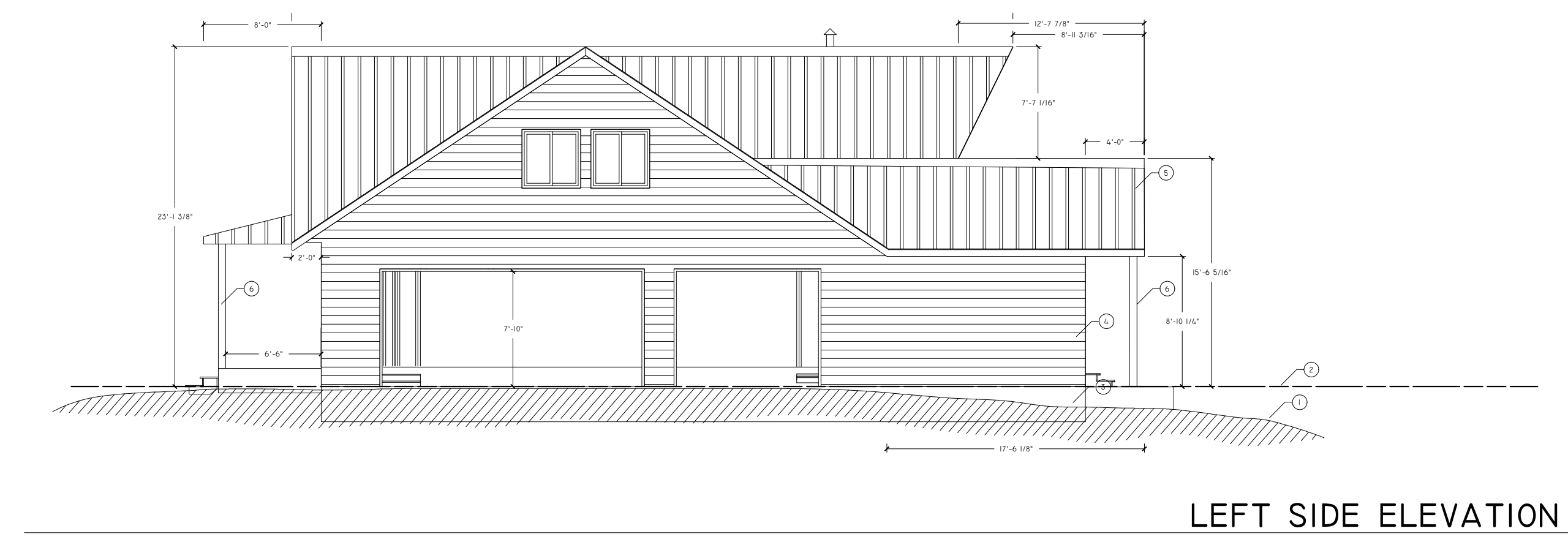
FRONT ELEVATION



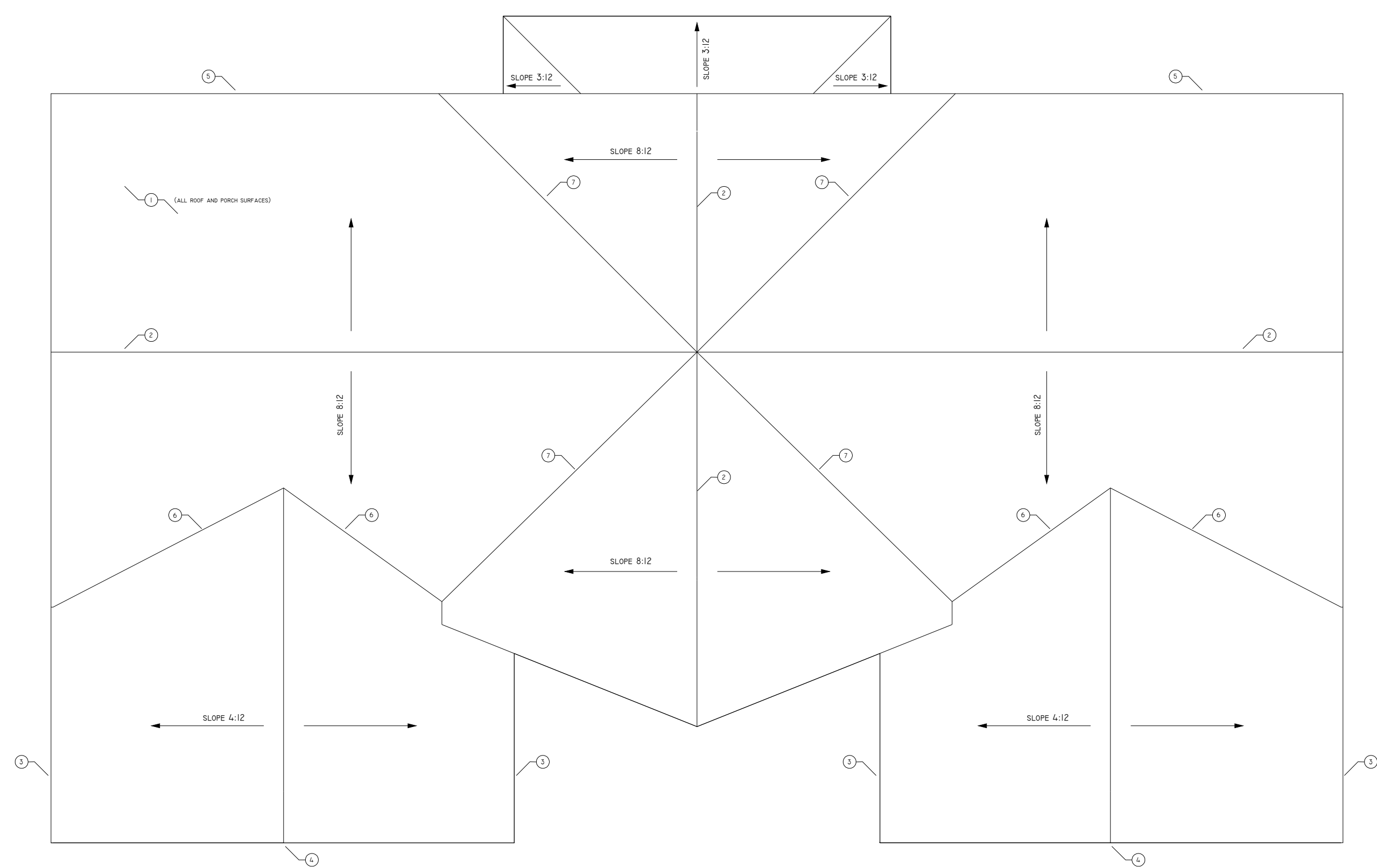
RIGHT SIDE ELEVATION



REAR ELEVATION



LEFT SIDE ELEVATION



ROOF PLAN

ROOF PLAN KEYNOTES

1. ALL ROOF/PORCH COVERINGS: METAL ROOF PANELS, UDL TITANIUM 50 UNDERLAYMENT, 19/32" PLYWOOD SHEATHING. ROOFING & FLASHING SHALL BE IN ACCORDANCE WITH IRC R905.10 AND MANUFACTURER INSTRUCTIONS.
2. RIDGE VENT - MAIN ROOF (8:12 SECTIONS): SUITABLE FOR METAL ROOFING AND PER IRC R806 - INSTALLED IN ACCORDANCE WITH MANUFACTURE INSTRUCTION. TOTAL VENT AREA PER IRC R806.2 (EXCEPTION 2) -> 17.3IN<sup>2</sup> PER 2' O.C. RAFTER CAVITY. SPLIT 50/50 BETWEEN SOFFIT/RIDGE -> 8.6IN<sup>2</sup> PER LINEAR FT (BOTH SIDES) FOR FULL WIDTH BUILDING SECTION.
3. SOFFIT VENTS - SECONDARY ROOF (4:12 SECTIONS): TOTAL VENT AREA PER IRC R806.2 -> 492.5 IN<sup>2</sup>. SPLIT 50/50 FOR SOFFIT/GABLE VENT -> 246.3 IN<sup>2</sup>, ADD 276.5 IN<sup>2</sup> FOR VENTING TO 8:12 SECTIONS -> 522.8 IN<sup>2</sup> TOTAL SOFFIT VENT AREA FOR 4:12 ROOF SECTION(S). FOR 8 SOFFIT SECTIONS 32.7 IN<sup>2</sup> MIN VENT AREA REQUIRED PER EACH.
4. GABLE VENTS - SECONDARY ROOF (4:12 SECTIONS): 246.3 IN<sup>2</sup> MIN VENT AREA.
5. SOFFIT VENTS - MAIN ROOF (8:12 SECTIONS), 4.3IN<sup>2</sup> PER LINEAR FT FOR FULL WIDTH BUILDING SECTION -> 8.6 IN<sup>2</sup> PER RAFTER CAVITY @ 2' O.C.
6. RAFTER SECTIONS ADJACENT TO 4:12 PITCH ROOF(S) VENTED TO SCISSOR TRUSS ATTIC.
7. CROSS GABLE VENTING - RAFTERS ADJACENT TO VALLEY BEAM TO BE VENTED TO THE NEXT ADJACENT RAFTER BAY AND TO PULL AIR FROM THE FIRST AVAILABLE SOFFIT BAY. CROSS BAY VENTING VIA VALLEY VENT TM ([HTTP://WWW.DCIPRODUCTS.COM/HTML/VALLEYVENT.HTM](http://www.dciproducts.com/html/valleyvent.htm)) OR SIMILAR PRODUCT.

ELEVATION KEYNOTES

1. FINISH GRADE.
2. TOP OF STEM WALL.
3. CMU STEM WALL PER 'FOUNDATION PLAN'.
4. TYPICAL EXTERIOR FINISH: FIBER CEMENT BOARD SIDING OVER TYVEK HOMEWRAP.
5. ROOFING PER ROOF PLAN
6. 6X6 COLUMN FOR PORCH SUPPORT
7. GABLE VENT PER ROOF PLAN

General Notes

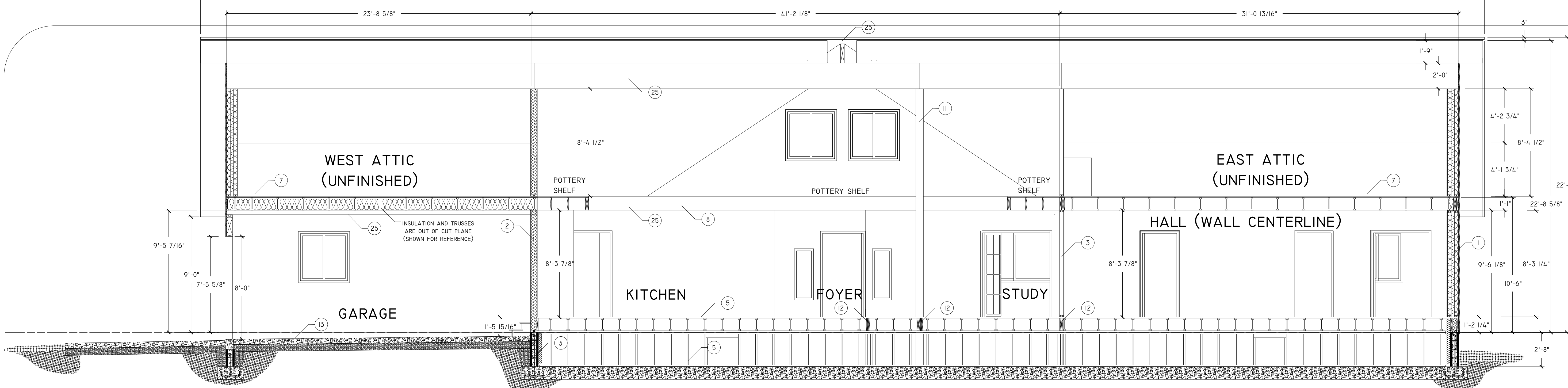
Revision/Issue	Date

ELEVATIONS AND ROOF PLAN

**GOLDENSTEIN RESIDENCE**  
 10685 E ROCKY HILL RD  
 DEWEY, AZ 86327

Project Name and Address	Sheet <b>A2.01</b>
Drawn By ADAM GOLDENSTEIN	
Date 3/22/2018	
Scale 1/8" = 1'-0"	



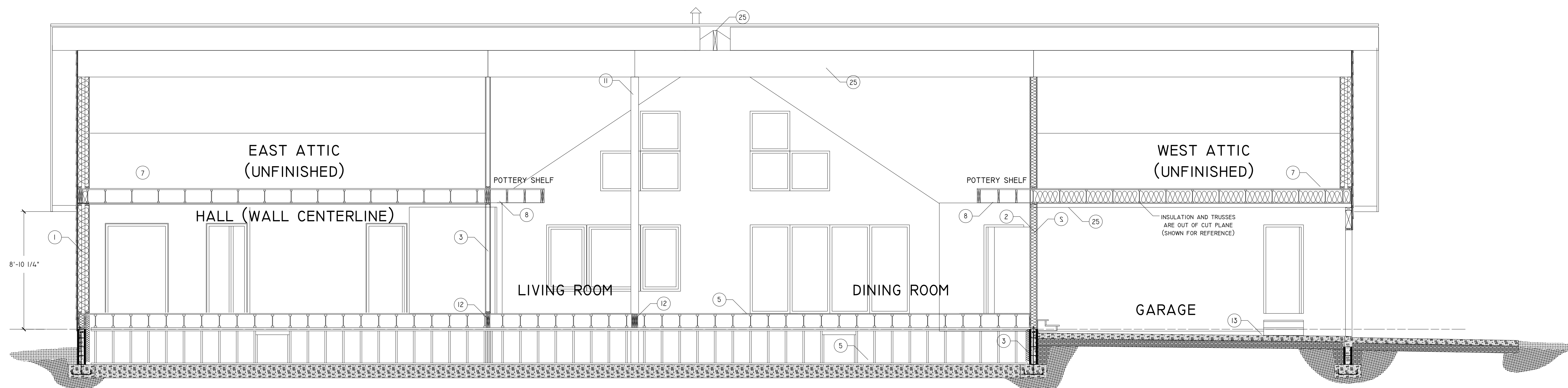


**SECTION KEYNOTES**

1. TYPICAL EXTERIOR WALL (NOT GARAGE): DOUBLE STUD 2x4 WALL @ 24" o.c. 10" THICK W/ BLOWN CELLULOSE INSULATION (R-30). INLINE FRAMING WITH ATTIC FLOOR TRUSS' & RAFTERS.
2. TYPICAL GARAGE WALL: CONVENTIONAL 2x6 STUD WALL @ 24" o.c. W/ FIBERGLASS BATT INSULATION (R-21). INLINE FRAMING WITH ATTIC FLOOR TRUSS' & RAFTERS.
3. TYPICAL INTERIOR WALL: CONVENTIONAL 2x4 STUD WALL @ 24" o.c.
4. TYPICAL STEM WALL: 8" CMU W/ R-10 RIGID INSULATION (NO INSULATION IN GARAGE W/O CRAWL SPACE).
5. CRIPPLE WALL: 2x4, 16" o.c. W/ DOUBLE TOP PLATE. BOTTOM PLATE TO BE TREATED WOOD.
6. MAIN FLOOR: 11-7/8" TJI TRUSS FLOOR @ 16" o.c. W/ 7/8" T&G PLYWOOD SUBFLOOR MINIMUM (1-1/8" SHOWN)
7. ATTIC FLOOR: 11-7/8" TJI TRUSS FLOOR @ 24" o.c. W/ 1-1/8" T&G PLYWOOD SUBFLOOR
8. LOFT FLOOR: EXPOSED 2x12 #2 DOUG FIR TRUSS @24" o.c. W/ 1-1/8" T&G PLYWOOD SUBFLOOR
9. (OMITTED)
11. LOAD BEARING COLUMN PER STRUCTURAL BEAM PLAN
12. BLOCKING FOR COLUMN LOAD PATH
13. GARAGE SLAB PER FLOOR PLAN SLOPED 1/4" PER FT
14. SCISSOR TRUSS @ 2' o.c., VENTED ATTIC W/ FIBERGLASS BATT INSULATION (R-38)
15. PORCH SLOPES AWAY FROM HOUSE 1/8" PER FT.
16. EXTERIOR PORCH TRUSS PER STRUCTURAL BEAM PLAN
17. 6x6 LOAD BEARING COLUMN FOR PORCH SUPPORT
18. MAIN ROOF INTAKE AIR VENTED TO PERPENDICULAR ROOF ATTIC PER ROOF PLAN
19. SOFFIT VENTS PER ROOF PLAN
20. RIDGE VENT PER ROOF PLAN
21. 14" TJI RAFTERS 24" o.c. INLINE FRAMING WITH EXTERIOR STUD WALLS. FIBERGLASS BATT INSULATION (R-38)
22. 2x4 KNEE WALL 24" o.c. SINGLE TOP PLATE.
23. LOAD BEARING INTERIOR WALL, 2x4 o.c. FRAMING W/ SINGLE TOP PLATE, INLINE FRAMING WITH ATTIC FLOOR TRUSS' & RAFTERS
24. ATTIC GABLE VENT PER ROOFING PLAN
25. GLULAM BEAM PER STRUCTURAL BEAM PLAN

**BUILDING SECTION 'A'**

1/4" = 1'-0"



**BUILDING SECTION 'A' REVERSE**

1/4" = 1'-0"

**General Notes**

No.	Revision/Issue	Date

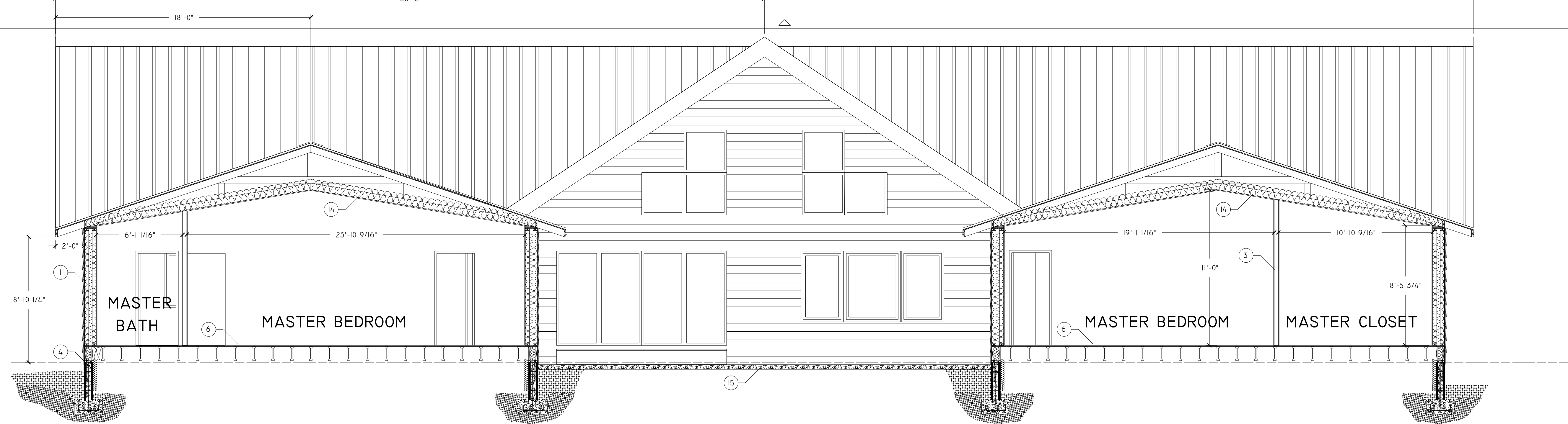
**SECTION VIEWS**

**GOLDENSTEIN RESIDENCE**  
 10685 E ROCKY HILL RD  
 DEWEY, AZ 86327

Drawn By  
 ADAM GOLDENSTEIN  
 Date  
 3/22/2018  
 Scale  
 1/4"=1'-0"

Sheet

**A3.01**

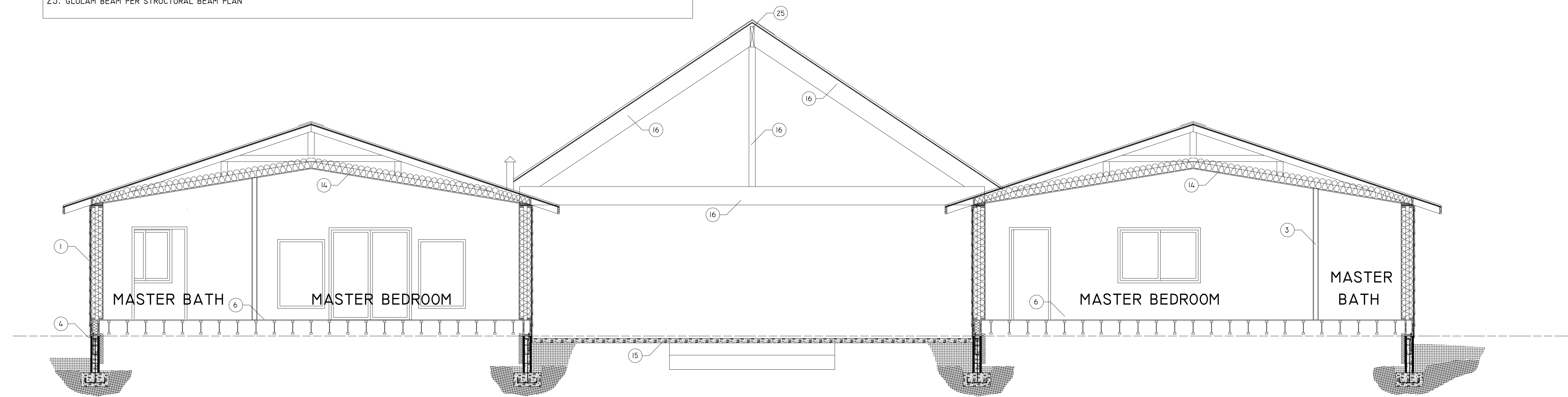


**SECTION KEYNOTES**

1. TYPICAL EXTERIOR WALL (NOT GARAGE): DOUBLE STUD 2x4 WALL @ 24" O.C. 10" THICK W/ BLOWN CELLULOSE INSULATION (R-30). INLINE FRAMING WITH ATTIC FLOOR TRUSS' & RAFTERS.
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3. TYPICAL INTERIOR WALL: CONVENTIONAL 2x4 STUD WALL @ 24" O.C.
4. TYPICAL STEM WALL: 8" CMU W/ R-10 RIGID INSULATION (NO INSULATION IN GARAGE W/O CRAWL SPACE).
5. CRIPPLE WALL: 2x4, 16" O.C W/ DOUBLE TOP PLATE. BOTTOM PLATE TO BE TREATED WOOD.
6. MAIN FLOOR: 11-7/8" TJI TRUSS FLOOR @ 16" O.C. W/ 7/8" T&G PLYWOOD SUBFLOOR MINIMUM (1-1/8" SHOWN)
7. ATTIC FLOOR: 11-7/8" TJI TRUSS FLOOR @ 24" O.C. W/ 1-1/8" T&G PLYWOOD SUBFLOOR
8. LOFT FLOOR: EXPOSED 2x12 #2 DOUG FIR TRUSS @24" O.C. W/ 1-1/8" T&G PLYWOOD SUBFLOOR
9. (OMITTED)
11. LOAD BEARING COLUMN PER STRUCTURAL BEAM PLAN
12. BLOCKING FOR COLUMN LOAD PATH
13. GARAGE SLAB PER FLOOR PLAN SLOPED 1/4" PER FT
14. SCISSOR TRUSS @ 2' O.C., VENTED ATTIC W/ FIBERGLASS BATT INSULATION (R-38)
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16. EXTERIOR PORCH TRUSS PER STRUCTURAL BEAM PLAN
17. 6x6 LOAD BEARING COLUMN FOR PORCH SUPPORT
18. MAIN ROOF INTAKE AIR VENTED TO PERPENDICULAR ROOF ATTIC PER ROOF PLAN
19. SOFFIT VENTS PER ROOF PLAN
20. RIDGE VENT PER ROOF PLAN
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23. LOAD BEARING INTERIOR WALL, 2x4 O.C FRAMING W/ SINGLE TOP PLATE, INLINE FRAMING WITH ATTIC FLOOR TRUSS' & RAFTERS
24. ATTIC GABLE VENT PER ROOFING PLAN
25. GLULAM BEAM PER STRUCTURAL BEAM PLAN

**BUILDING SECTION 'B'**

1/4" = 1'-0"



**BUILDING SECTION 'B' REVERSE**

1/4" = 1'-0"

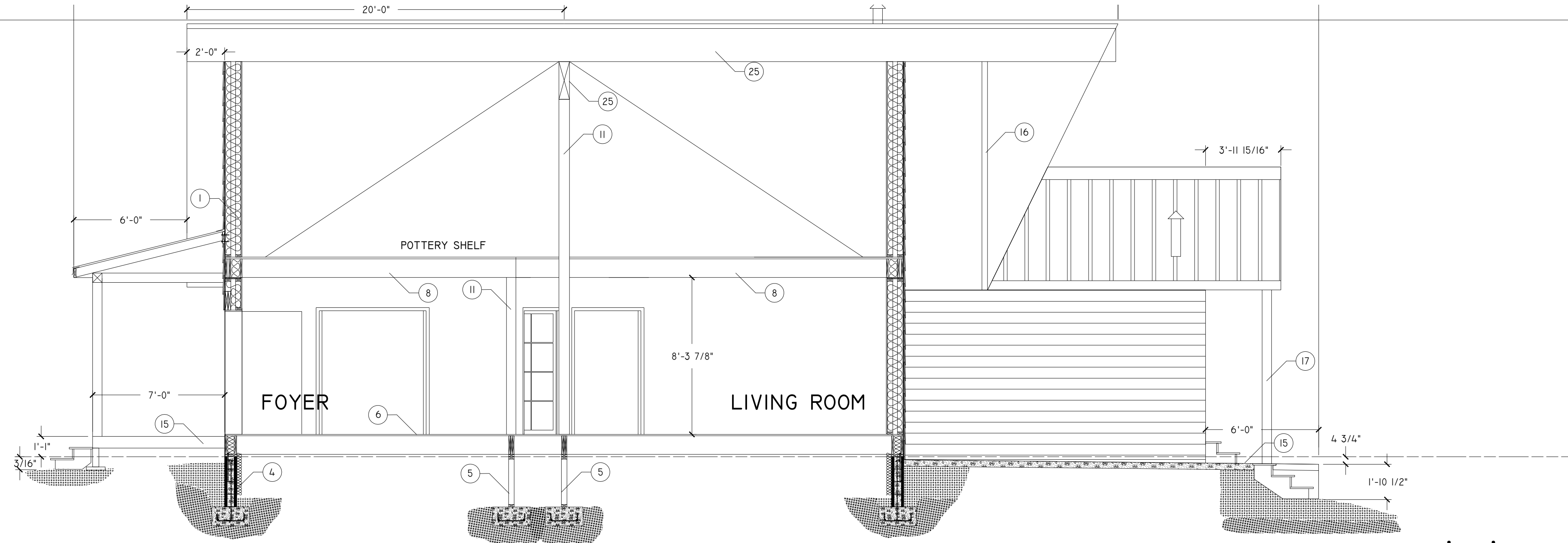
General Notes

No.	Revision/Issue	Date

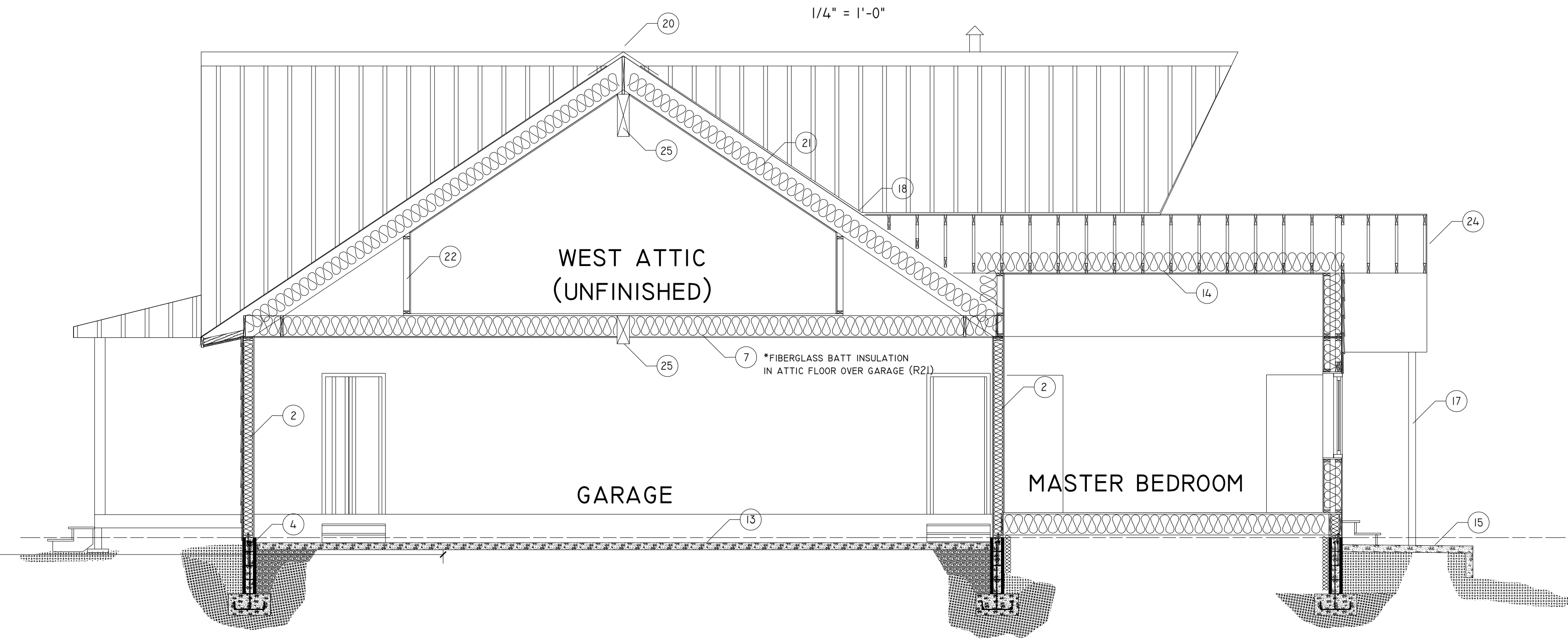
SECTION VIEWS

GOLDENSTEIN RESIDENCE  
 10685 E ROCKY HILL RD  
 DEWEY, AZ 86327

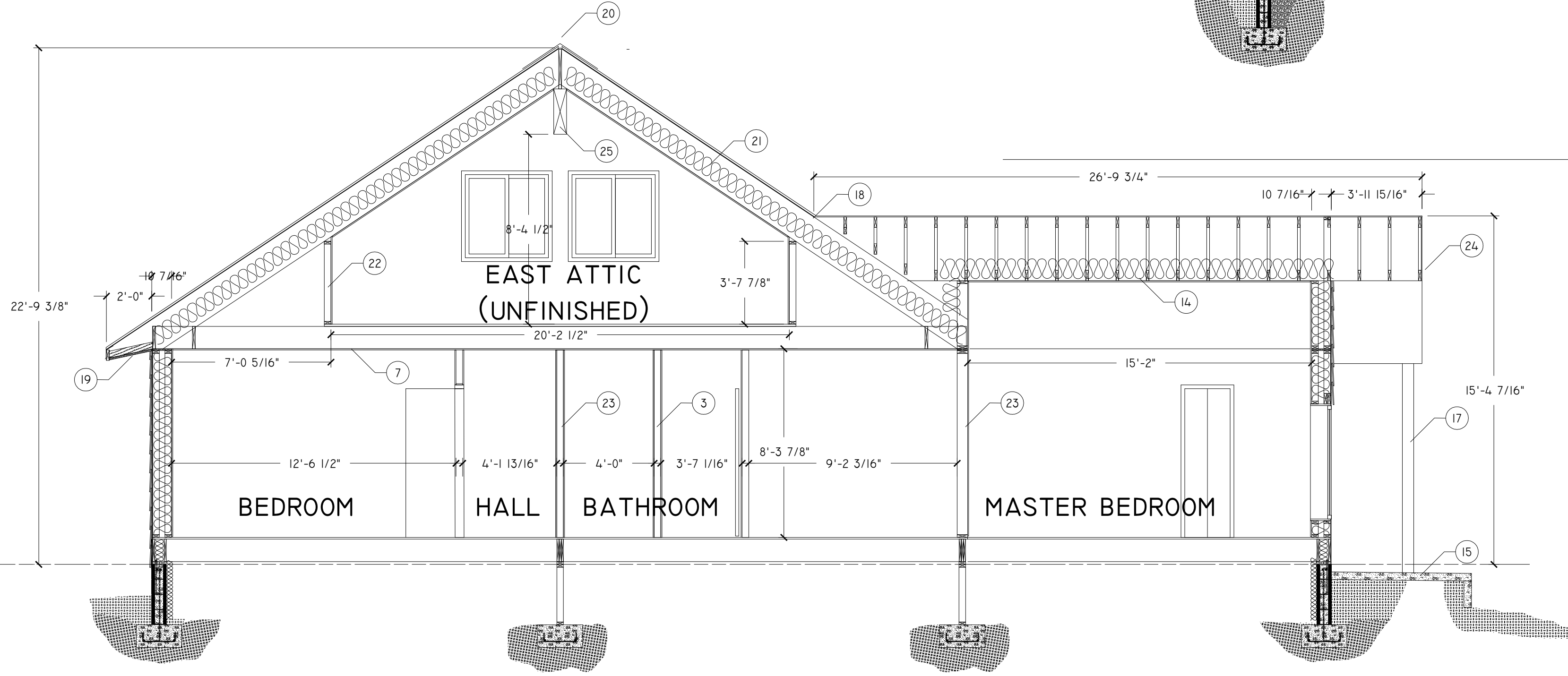
Drawn By ADAM GOLDENSTEIN	Sheet A3.02
Date 3/22/2018	
Scale 1/4"=1'-0"	



**BUILDING SECTION 'C'**



**BUILDING SECTION 'E'**



**BUILDING SECTION 'D'**

**SECTION KEYNOTES**

1. TYPICAL EXTERIOR WALL (NOT GARAGE): DOUBLE STUD 2X4 WALL @ 24" O.C. 10" THICK W/ BLOWN CELLULOSE INSULATION (R-30). INLINE FRAMING WITH ATTIC FLOOR TRUSS' & RAFTERS.
2. TYPICAL GARAGE WALL: CONVENTIONAL 2X6 STUD WALL @ 24" O.C. W/ FIBERGLASS BATT INSULATION (R-21). INLINE FRAMING WITH ATTIC FLOOR TRUSS' & RAFTERS.
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4. TYPICAL STEM WALL: 8" CMU W/ R-10 RIGID INSULATION (NO INSULATION IN GARAGE W/O CRAWL SPACE).
5. CRIPPLE WALL: 2X4, 16" O.C. W/ DOUBLE TOP PLATE. BOTTOM PLATE TO BE TREATED WOOD.
6. MAIN FLOOR: 11-7/8" TJI TRUSS FLOOR @ 16" O.C. W/ 7/8" T&G PLYWOOD SUBFLOOR MINIMUM (1-1/8" SHOWN)
7. ATTIC FLOOR: 11-7/8" TJI TRUSS FLOOR @ 24" O.C. W/ 1-1/8" T&G PLYWOOD SUBFLOOR
8. LOFT FLOOR: EXPOSED 2X12 #2 DOUG FIR TRUSS @ 24" O.C. W/ 1-1/8" T&G PLYWOOD SUBFLOOR
9. (OMITTED)
11. LOAD BEARING COLUMN PER STRUCTURAL BEAM PLAN
12. BLOCKING FOR COLUMN LOAD PATH
13. GARAGE SLAB PER FLOOR PLAN SLOPED 1/4" PER FT
14. SCISSOR TRUSS @ 2' O.C., VENTED ATTIC W/ FIBERGLASS BATT INSULATION (R-38)
15. PORCH SLOPES AWAY FROM HOUSE 1/8" PER FT.
16. EXTERIOR PORCH TRUSS PER STRUCTURAL BEAM PLAN
17. 6X6 LOAD BEARING COLUMN FOR PORCH SUPPORT
18. MAIN ROOF INTAKE AIR VENTED TO PERPENDICULAR ROOF ATTIC PER ROOF PLAN
19. SOFFIT VENTS PER ROOF PLAN
20. RIDGE VENT PER ROOF PLAN
21. 14" TJI RAFTERS 24" O.C. INLINE FRAMING WITH EXTERIOR STUD WALLS. FIBERGLASS BATT INSULATION (R-38)
22. 2X4 KNEE WALL 24" O.C. SINGLE TOP PLATE.
23. LOAD BEARING INTERIOR WALL, 2X4 O.C FRAMING W/ SINGLE TOP PLATE, INLINE FRAMING WITH ATTIC FLOOR TRUSS' & RAFTERS
24. ATTIC GABLE VENT PER ROOFING PLAN
25. GLULAM BEAM PER STRUCTURAL BEAM PLAN

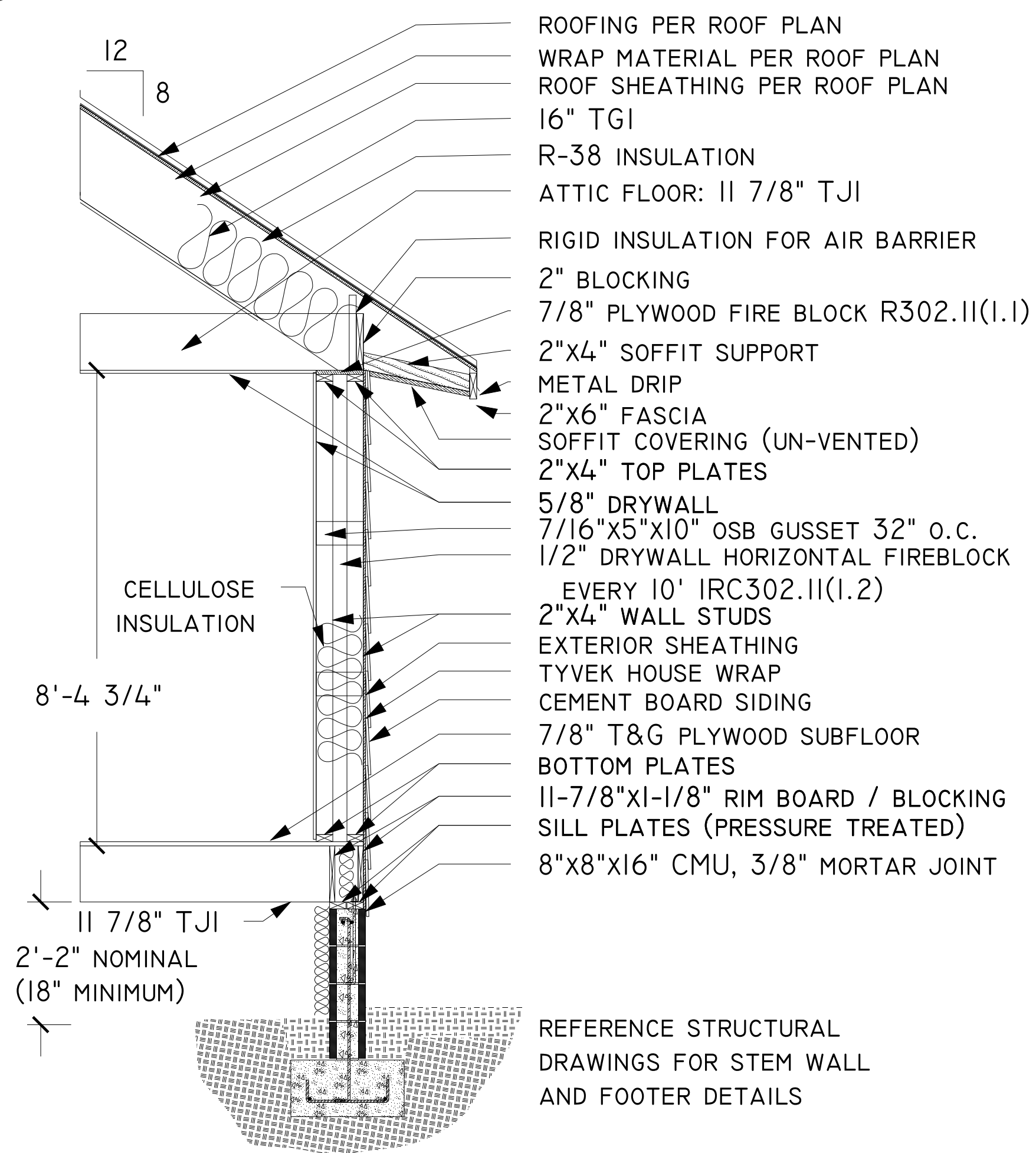
General Notes		
No.	Revision/Issue	Date

SECTION VIEWS

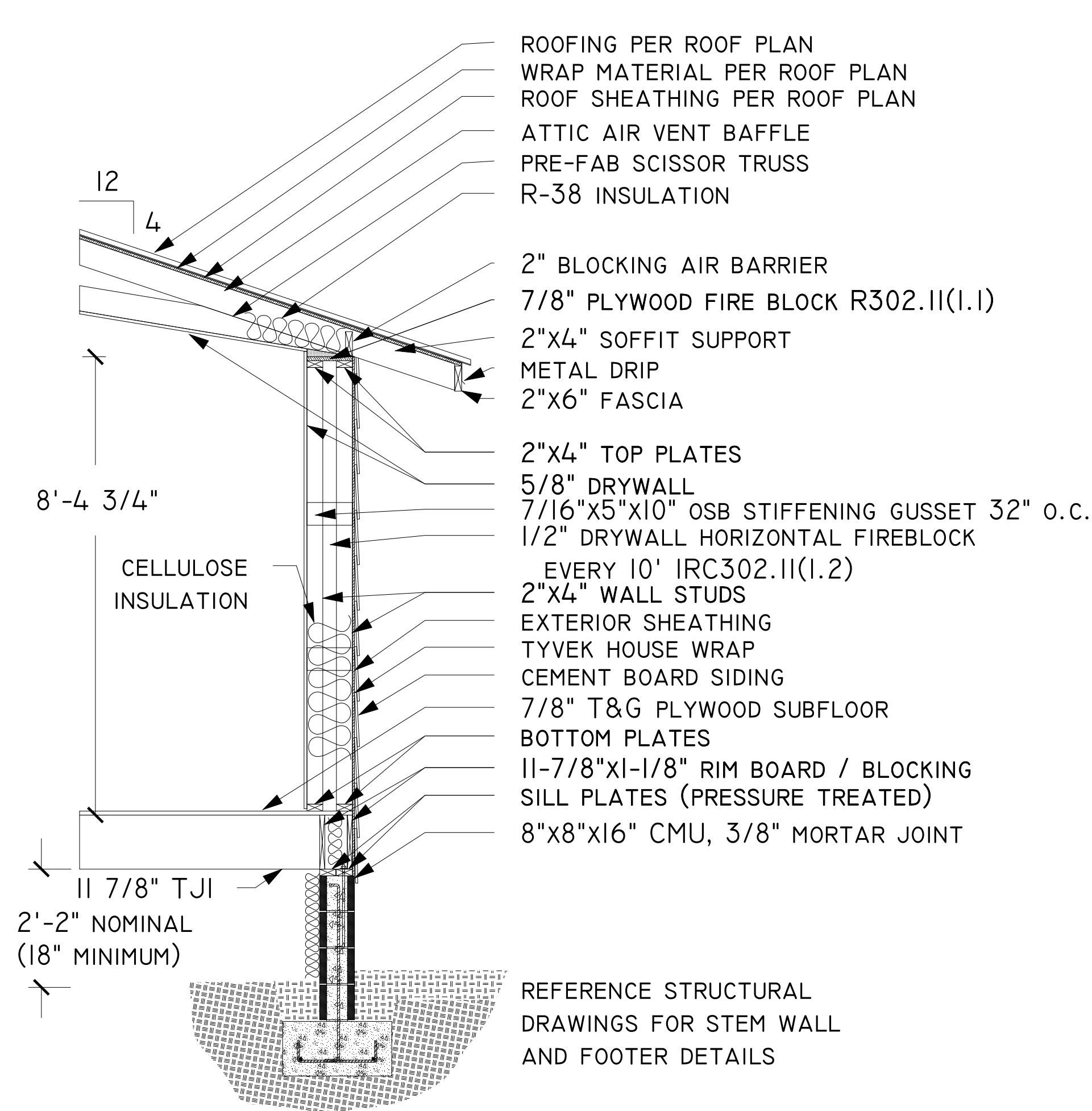
**GOLDENSTEIN RESIDENCE**  
 10685 E ROCKY HILL RD  
 DEWEY, AZ 86327

Drawn By <b>ADAM GOLDENSTEIN</b> Date 3/22/2018 Scale 1/4"=1'-0"	Sheet <b>A3.03</b>
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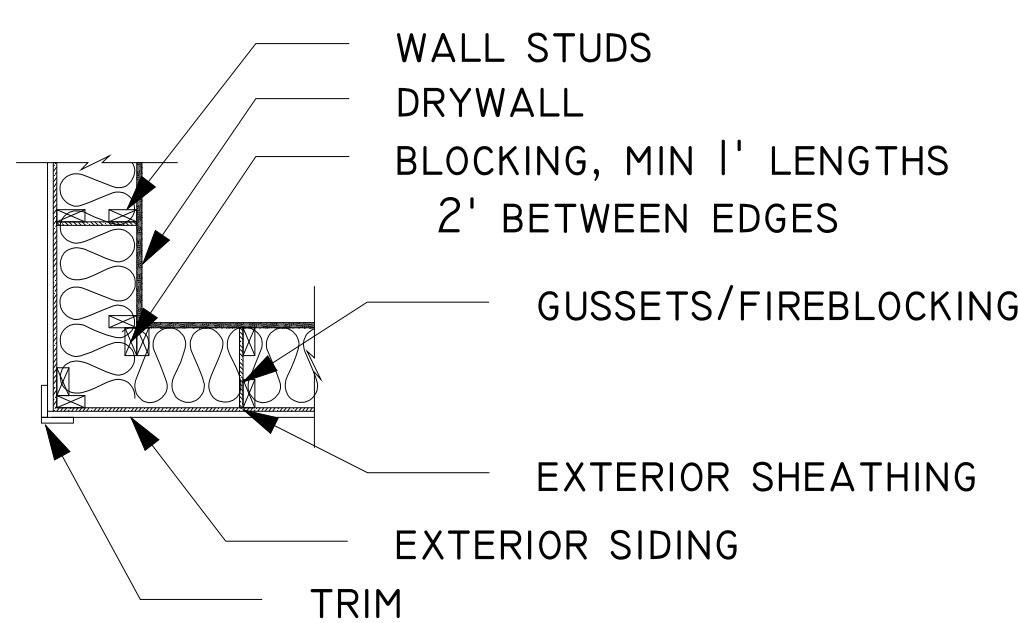
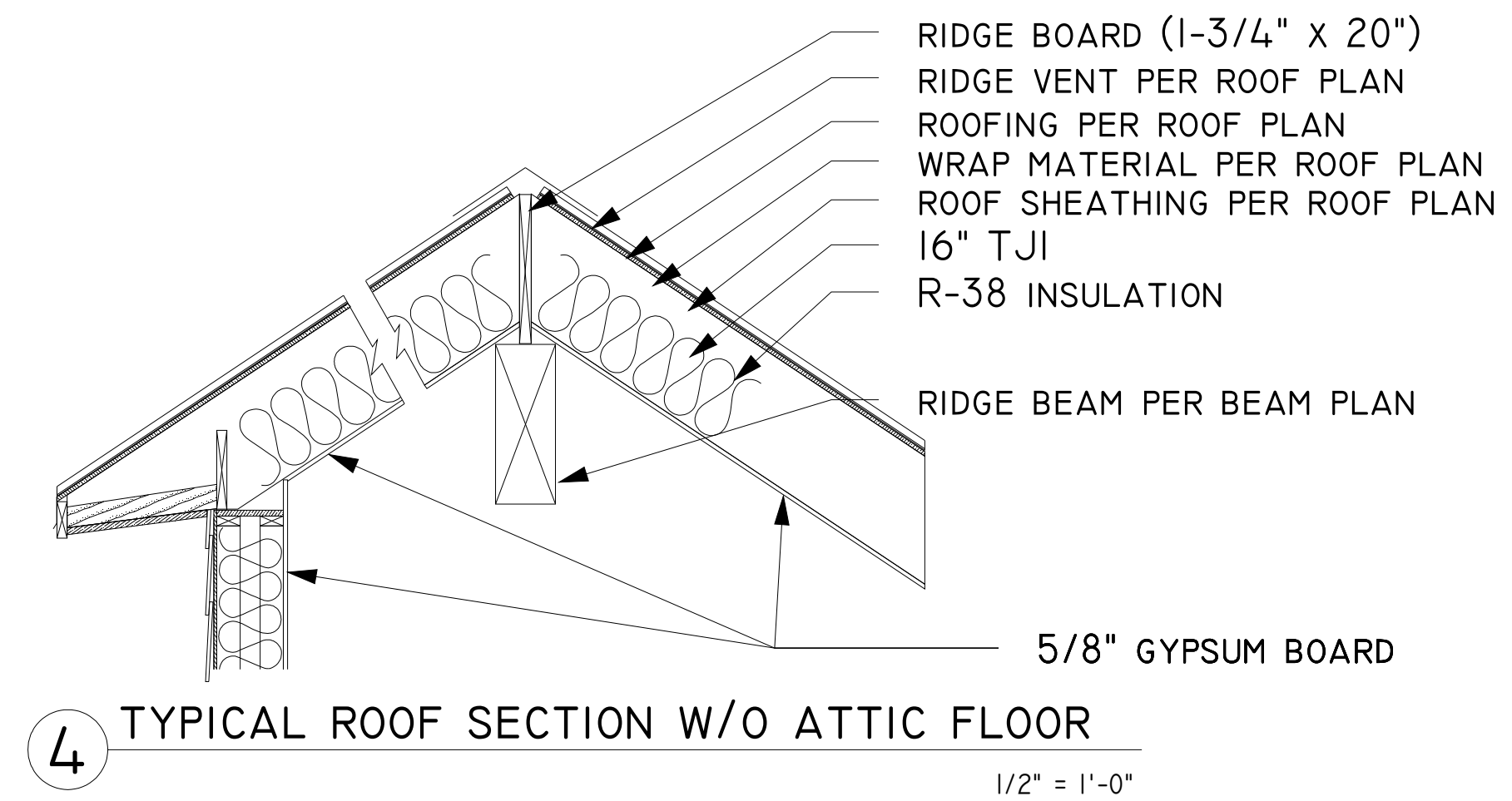
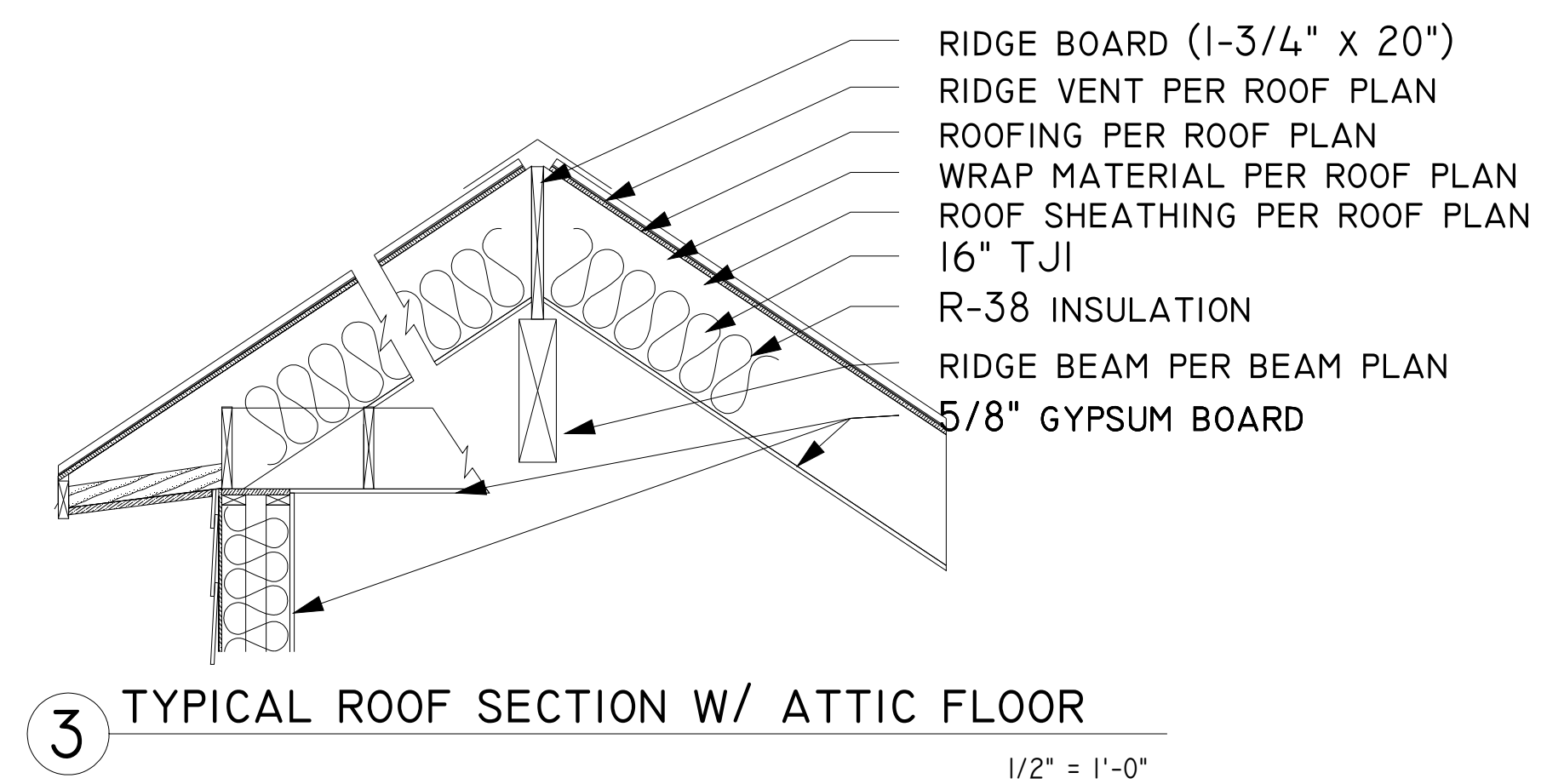




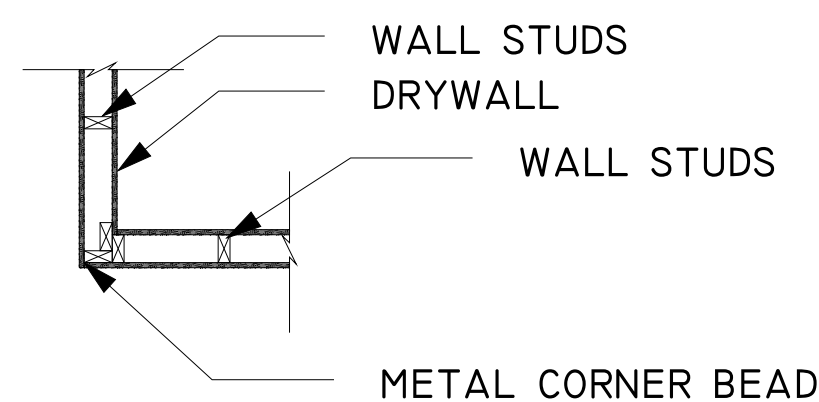
1 TYPICAL TJI WALL  
1/2" = 1'-0"



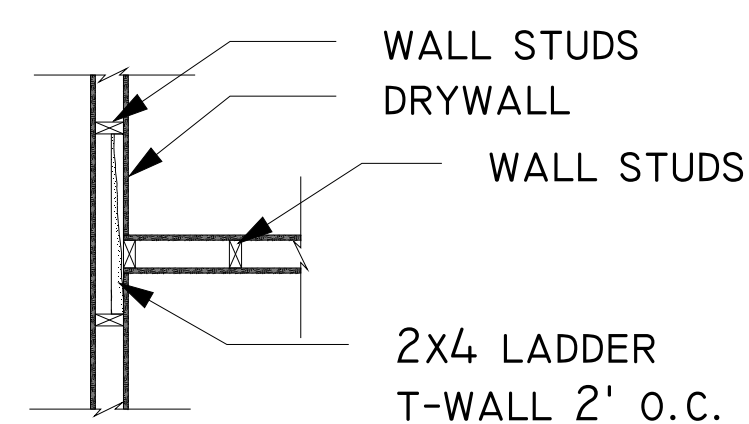
2 TYPICAL SCISSOR TRUSS WALL SECTION  
1/2" = 1'-0"



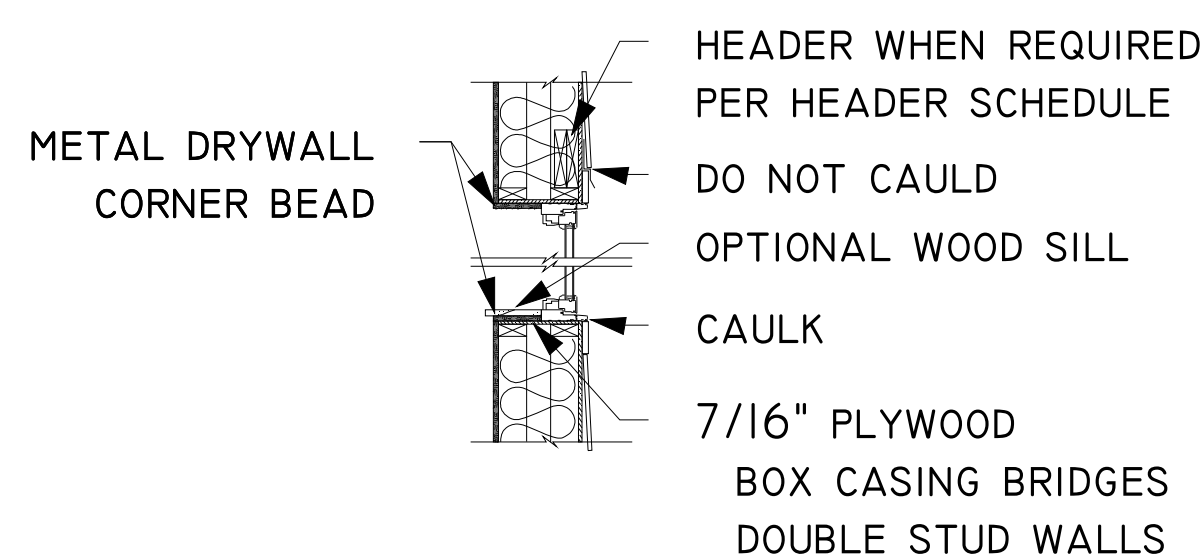
5 TYPICAL EXTERIOR WALL CORNER  
1/2" = 1'-0"



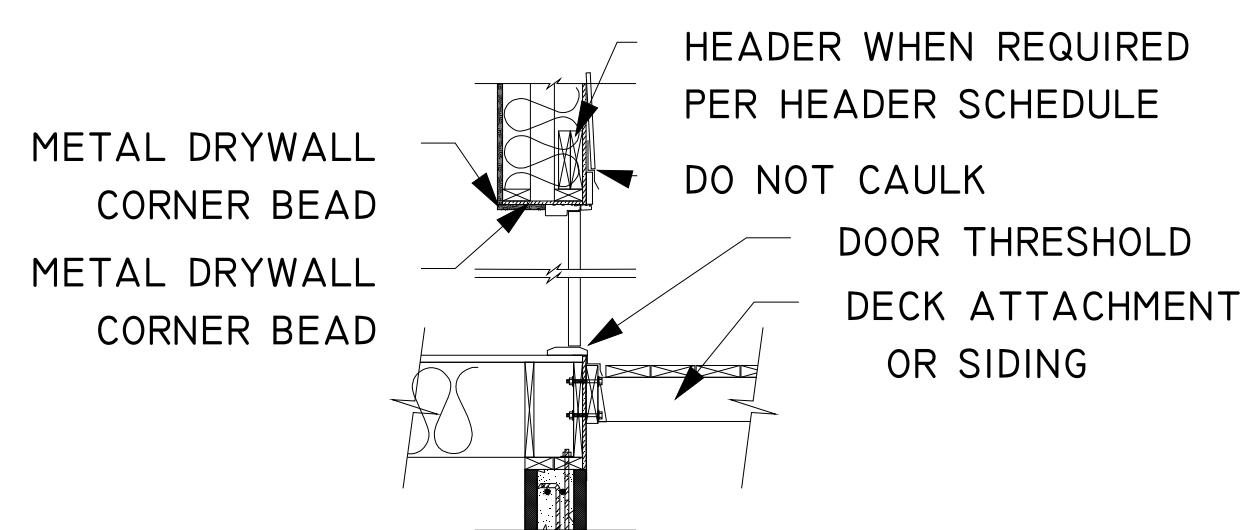
6 TYPICAL INTERIOR WALL CORNER  
1/2" = 1'-0"



7 TYPICAL WALL INTERSECTION  
1/2" = 1'-0"



8 TYPICAL WINDOW DETAIL  
1/2" = 1'-0"



9 TYPICAL EXT DOORWAY DETAIL  
1/2" = 1'-0"

10 (DRAWING OMITTED)  
1/2" = 1'-0"

Sheet Title

DETAIL VIEWS

Project Name and Address  
GOLDENSTEIN RESIDENCE  
10685 E ROCKY HILL RD  
DEWEY, AZ 86327

General Notes		
No.	Revision/Issue	Date

Drawn By ADAM GOLDENSTEIN	Sheet A5.01
Date 3/22/2018	
Scale 1/2"=1'-0"	





Need to step footer/stem wall due to grade.  
Add drawing and show locations.

Tom said they are not putting something in concrete unless you ask for it down in tucson. What is it? Do I need it?

Do I need to specify concrete floor expansion joint?

Per another plan it called for: "provide fibre/asphalt impregnated expansion control material between flatworks and vertical element by cuts and expansion or control joints 2' to 15' each way"

Do I need control joints between porch column footing and cement patio?

Notes  
1. TREAT THE GROUND FOR TERMITES BEFORE POURING CONCRETE.  
2. CMU BLOCK STEMWALL SHALL BE 4 CMUS TALL AT NORTH WEST CORNER OF HOUSE. FOOTER AND STEM WALL MAY BE STEPPED DOWN UP TO THREE CMUS. (24") AS REQUIRED BY GRADE IN ORDER TO MAINTAIN FROST LINE AND KEEP THE FOUNDATION ON UNDISTURBED SOIL AND NOT FILL.  
3. PROVIDE FIBRE/ASPHALT IMPREGNATED EXPANSION CONTROL MATERIAL BETWEEN FLATWORK AND ALL VERTICAL ELEMENTS SUCH AS STEM WALL.  
4. ALL CONCRETE USED FOR CONSTRUCTION SHALL COMPLY WITH IRC2012 R402.2

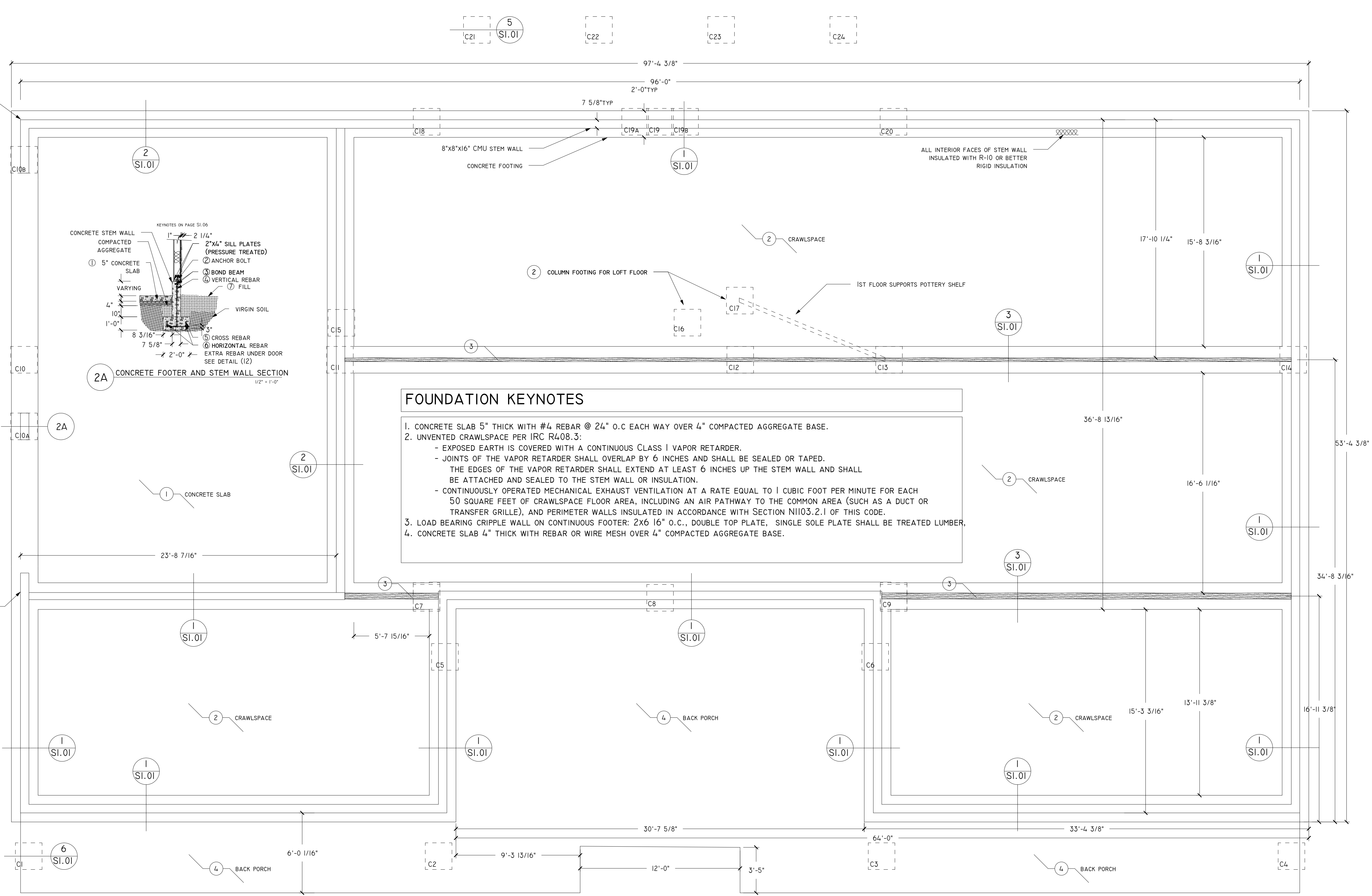
**COLUMN FOOTINGS**

ID	XDIM	YDIM	FOOTING
C1	0'-7 7/16"	-55'-3"	PPF
C2	34'-4 9/16"	-55'-3"	PPF
C3	64'-7 7/16"	-55'-3"	PPF
C4	95'-4 9/16"	-55'-3"	PPF
C5	31'-10 1/4"	-40'-3 9/16"	CF
C6	64'-1 3/4"	-40'-3 9/16"	CF
C7	30'-5 11/16"	-35'-8 11/16"	CF
C8	48'-0"	-35'-10 3/8"	CF
C9	65'-6 5/16"	-35'-8 11/16"	CF
C10	0'-3 3/16"	-18'-0"	N/A
C10A	0'-3 3/16"	-23'-0 1/8"	CF
C10B	0'-3 3/16"	-3'-0"	CF
C11	23'-11 5/8"	-18'-0"	CF
C12	54'-0 3/16"	-18'-0"	CF
C13	65'-2 1/8"	-18'-0"	CF
C14	95'-6 1/8"	-18'-0"	CF
C15	24'-0 1/4"	-15'-3 9/16"	CF
C16	50'-0 5/8"	-15'-2 9/16"	PF
C17	53'-11 3/4"	-13'-6 13/16"	PF
C18	30'-5 13/16"	-0'-1 3/4"	CF
C19	48'-0"	-0'-1 3/4"	CF
C19A	46'-1 1/2"	-0'-1 3/4"	CF
C19B	49'-9 5/8"	-0'-1 3/4"	CF
C20	65'-6 3/16"	-0'-1 3/4"	CF
C21	34'-3"	6'-9"	PF
C22	43'-5"	6'-9"	PF
C23	52'-7"	6'-9"	PF
C24	61'-9"	6'-9"	PF

CF - CONTINUOUS FOOTING:  
SEE STRUCTURAL DETAIL DRAWINGS I-4

PF - PIER FOOTING:  
SEE STRUCTURAL DETAIL DRAWING 5

PPF - PIER FOOTING AT PATIO:  
SEE STRUCTURAL DETAIL DRAWING 6



**FOUNDATION KEYNOTES**

- CONCRETE SLAB 5" THICK WITH #4 REBAR @ 24" O.C EACH WAY OVER 4" COMPACTED AGGREGATE BASE.
- UNVENTED CRAWLSPACE PER IRC R408.3:
  - EXPOSED EARTH IS COVERED WITH A CONTINUOUS CLASS I VAPOR RETARDER.
  - JOINTS OF THE VAPOR RETARDER SHALL OVERLAP BY 6 INCHES AND SHALL BE SEALED OR TAPED. THE EDGES OF THE VAPOR RETARDER SHALL EXTEND AT LEAST 6 INCHES UP THE STEM WALL AND SHALL BE ATTACHED AND SEALED TO THE STEM WALL OR INSULATION.
  - CONTINUOUSLY OPERATED MECHANICAL EXHAUST VENTILATION AT A RATE EQUAL TO 1 CUBIC FOOT PER MINUTE FOR EACH 50 SQUARE FEET OF CRAWLSPACE FLOOR AREA, INCLUDING AN AIR PATHWAY TO THE COMMON AREA (SUCH AS A DUCT OR TRANSFER GRILLE), AND PERIMETER WALLS INSULATED IN ACCORDANCE WITH SECTION N1103.2.1 OF THIS CODE.
- LOAD BEARING CRIPPLE WALL ON CONTINUOUS FOOTER: 2X6 16" O.C., DOUBLE TOP PLATE, SINGLE SOLE PLATE SHALL BE TREATED LUMBER.
- CONCRETE SLAB 4" THICK WITH REBAR OR WIRE MESH OVER 4" COMPACTED AGGREGATE BASE.

General Notes

No.	Revision/Issue	Date

Sheet Title  
**FOUNDATION PLAN**

Project Name and Address  
**GOLDENSTEIN RESIDENCE**  
10685 E ROCKY HILL RD  
DEWEY, AZ 86327

Drawn By  
ADAM GOLDENSTEIN

Date  
3/22/2018

Scale  
1/4" = 1'-0"

Sheet  
**SI.01**

**FOUNDATION PLAN**

1/4" = 1'-0"

**1ST FLOOR FRAMING KEYNOTES**

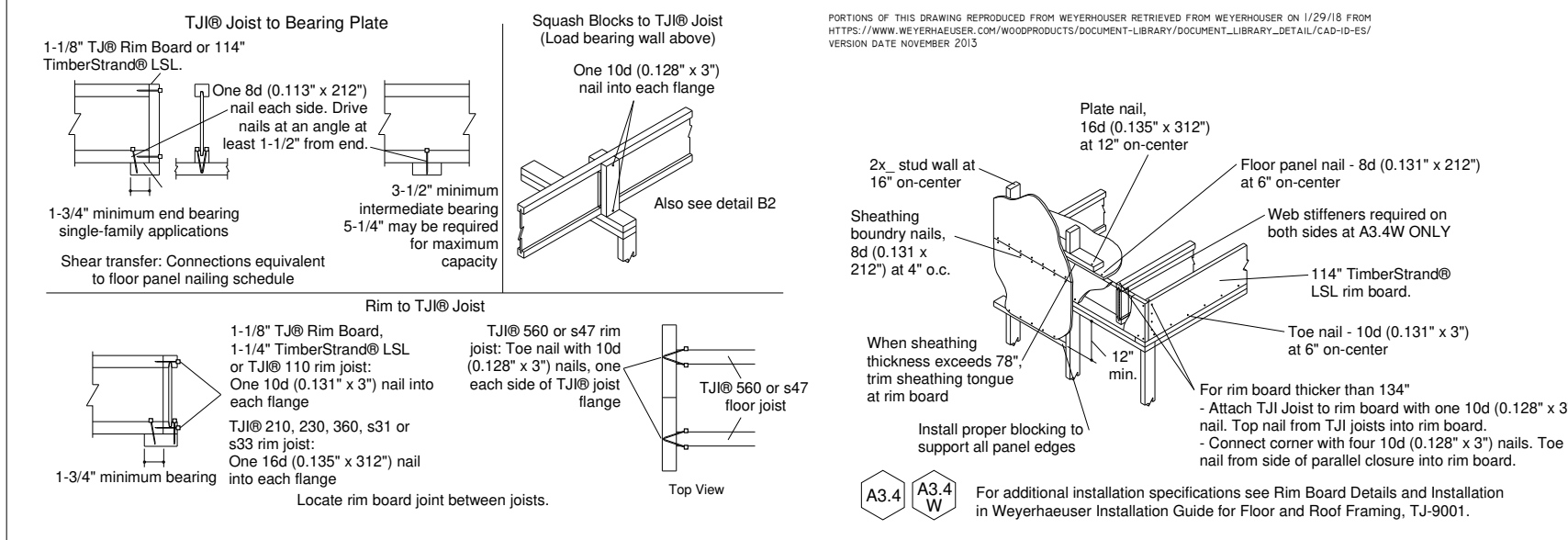
- 1-1/8" TJI COMPATIBLE RIM BOARD.
- SAFETY BRACING (1x4 MINIMUM) PLACED AT 8' ON-CENTER AND EXTENDED TO A BRACED END WALL. FASTEN AT EACH JOIST WITH TWO 8D (0.113" X 2 1/2") NAILS MINIMUM.
- 2X6 CRIPPLES WALL 16" O.C., DOUBLE TOP PLATE, SINGLE BOTTOM PLATE.
- REMOVABLE CRAWLSPACE ACCESS COVER. TJI HEADER-OFF CONSTRUCTION SHALL COMPLY WITH WEYERHAUSER TB-816 TJI JOIST HEADER-OFF SPAN TABLE.
- H2 DRAWING DETAIL FROM WEYERHAUSER IS REPRODUCED ON THIS SHEET FOR REFERENCE.
- FRONT DECKING MATERIAL: 2X6 REDWOOD BOARDS RUNNING LENGTHWAYS WITH DECK.
- 7/8" T&G PLYWOOD SUB-FLOOR GLUED AND NAILED.

**COLUMN SCHEDULE**

COLUMN	LENGTH	ATTACHMENT: BOTTOM/TOP
C1-C4	6x6 Post DF #2	SEE DETAIL 6 & 30
C5,C6	4-2x4 DF #2	SEE DETAIL 28 & 19
C7,C9,C18,C20	4-2x4 DF #2	SEE DETAIL 28 & 18
C8,C19	4-2x4 DF #2	SEE DETAIL 28, 27, 21, 25
C10	SEE DETAIL 29	SEE DETAIL 29
C11	3-2x6 POST DF #2	SEE DETAIL 29 & 27
C12	7x7 PARALAM	SEE DETAIL 32, SIMPSON CC78 COLUMN CAP
C13	4-2x6 POST DF #2	SEE DETAIL 32
C14	4-2x4 POST DF #2	SEE DETAIL 28, 27, 21
C15-C17	3-2x4 POST DF #2	5-8D TOENAIL / 5-8D TOENAIL
C21-24	6x6 POST DF #2	SEE DETAIL 5 / SIMPSON PC6Z POST CAP

**JOIST SCHEDULE**

MEMBER	LENGTH	QUANTITY	ATTACHMENT
J1A	11-7/8" TJI 360 @ 16" o.c.	16'-3 1/4"	23 NAILED, SEE DRAWING BELOW
J2B	11-7/8" TJI 360 @ 16" o.c.	16'-1 5/8"	23 NAILED, SEE DRAWING BELOW
J3	11-7/8" TJI 360 @ 16" o.c.	35'-8 7/8"	53 NAILED, SEE DRAWING BELOW
J-D	2X6 DF # 2	6'-10 1/2"	24 NAILING, SEE GENERAL NOTES



This drawing reproduced from Weyerhaeuser retrieved from Weyerhaeuser on 1/29/18 from [http://www.weyerhaeuser.com/woodproducts/document-library/document\\_library\\_detail/lead-td-ef-version-date-november-2013](http://www.weyerhaeuser.com/woodproducts/document-library/document_library_detail/lead-td-ef-version-date-november-2013)

Hanger Backer Block: Install tight to top flange (tight to bottom flange with top mount hangers). Attach per the table below. Clinch nails when possible.

Double TJI Joist Filler Block: Attach per the table below. Clinch nails when possible.

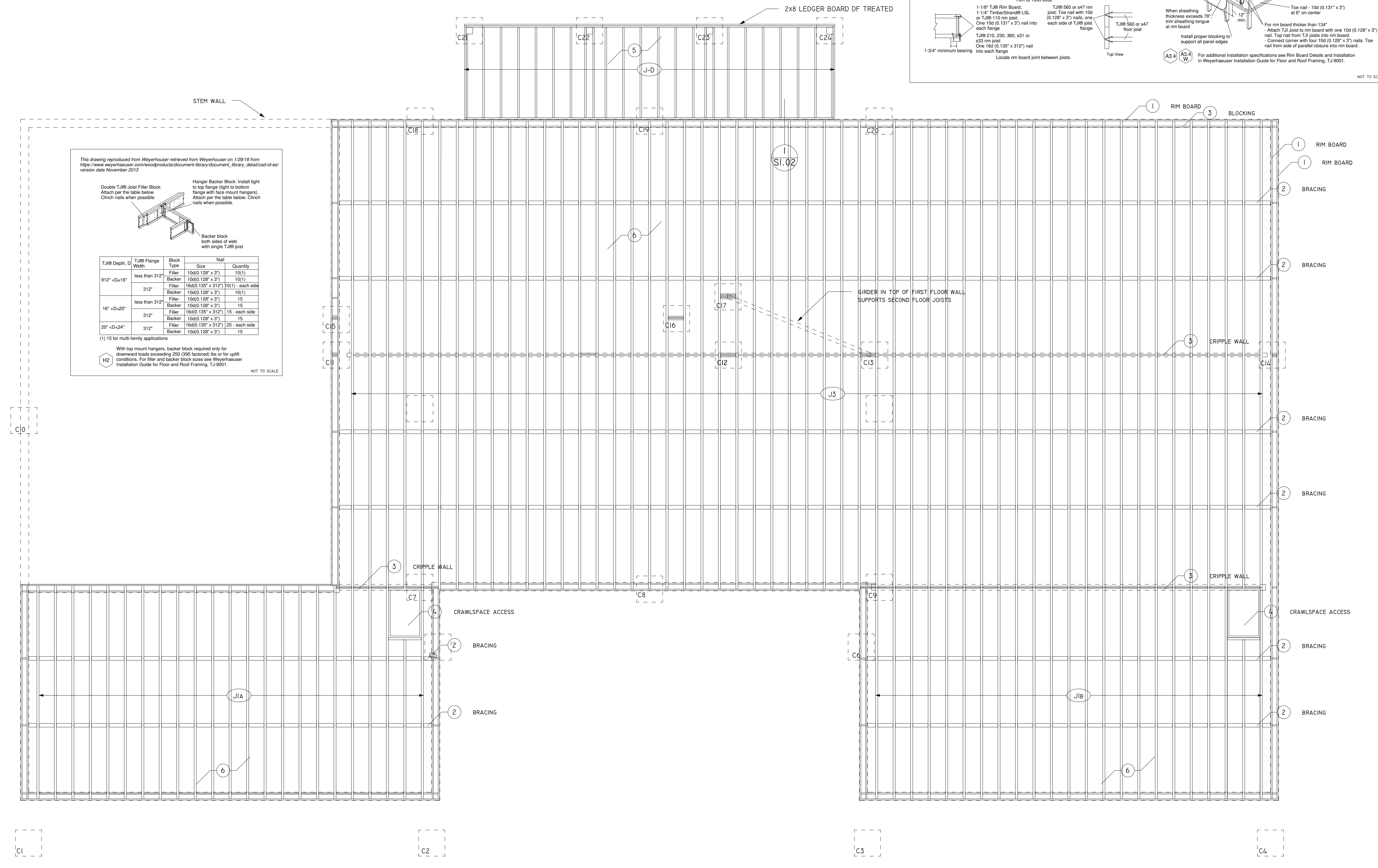
Backer block both sides of web with single TJI joist

TJI Depth, D	TJI Flange Width	Block Type	Size	Nail Quantity
9 1/2" <D<16"	less than 3 1/2"	Filler	10x(0.135" x 3')	10(1)
		Backer	10x(0.128" x 3')	10(1)
16" <D<20"	3 1/2"	Filler	16x(0.135" x 3') 10(1) - each side	
		Backer	10x(0.128" x 3')	10(1)
20" <D<24"	less than 3 1/2"	Backer	10x(0.128" x 3')	15
		Filler	16x(0.135" x 3') 15 - each side	
24" <D<28"	3 1/2"	Backer	10x(0.128" x 3')	15
		Filler	16x(0.135" x 3') 25 - each side	
28" <D<32"	3 1/2"	Backer	10x(0.128" x 3')	15
		Filler	16x(0.135" x 3') 25 - each side	

(1) 15 for multi-family applications

With top mount hangers, backer block required only for downward loads exceeding 250 (895 factored) lbs or for uplift conditions. For filler and backer block sizes see Weyerhaeuser Installation Guide for Floor and Roof Framing, TJ-9001.

NOT TO SCALE



General Notes

No.	Revision/Issue	Date

Sheet Title  
**FLOOR FRAMING PLAN**

Project Name and Address  
**GOLDENSTEIN RESIDENCE**  
 10685 E ROCKY HILL RD  
 DEWEY, AZ 86327

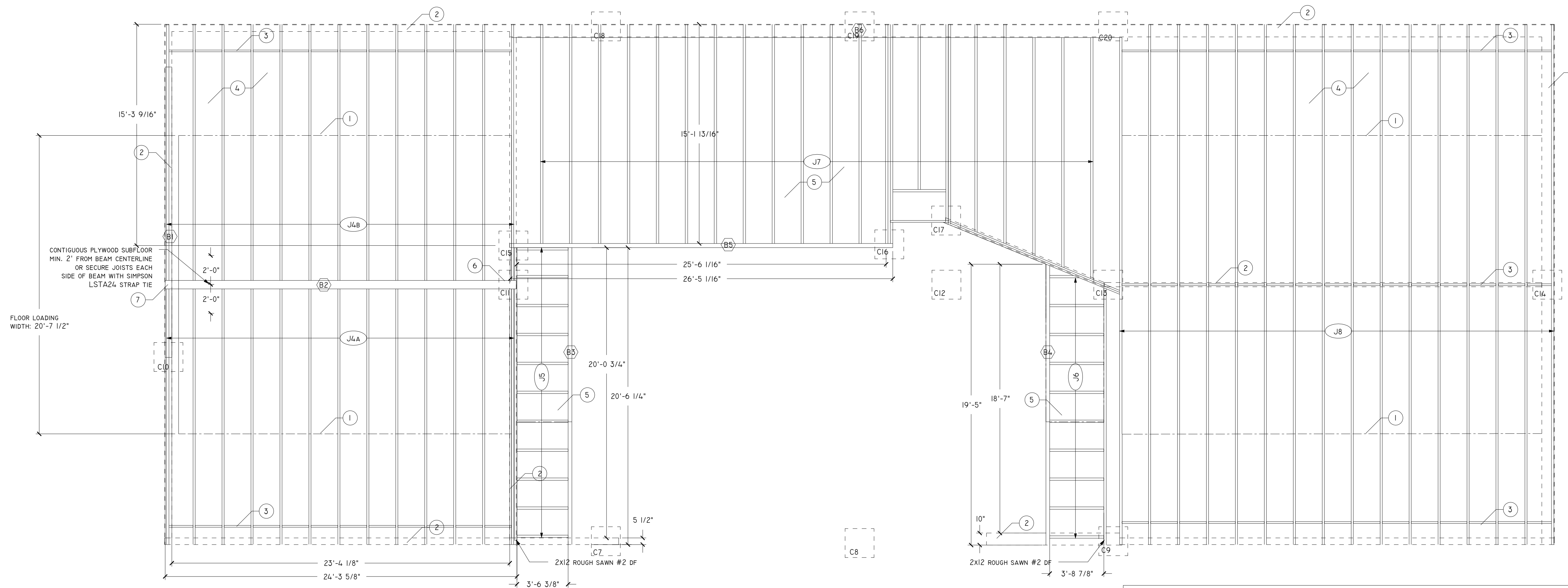
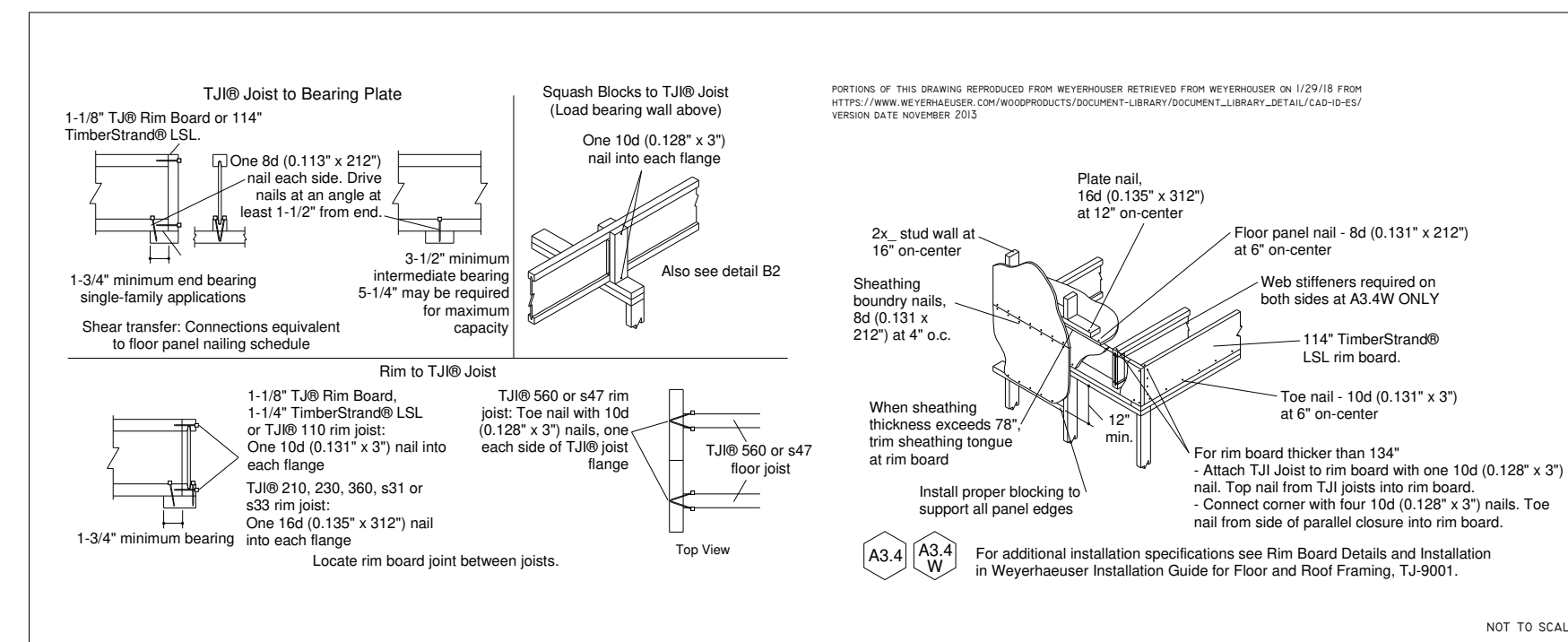
Drawn By ADAM GOLDENSTEIN	Sheet SI.02
Date 3/22/2018	
Scale 1/4" = 1'-0"	

**FLOOR FRAMING PLAN**

1/4" = 1'-0"



BEAM SCHEDULE					
MEMBER	BEARING	SPAN	LENGTH	ATTACHMENT	
B1	4-1 3/4" x 16" LVL	4 1/2", 6"	18'-0"	18'-10 1/2"	SEE DETAIL 29, 5-8D TOE NAIL TOP PLATE
B2	4-1 3/4" x 16" LVL	5 1/2", 6"	23'-4 1/8"	24'-3 5/8"	5-8D TOE NAIL TOP PLATE EACH SIDE
B3	3 1/8" x 12" DF 24F-V4 GLULAM	5 1/2", 2 1/2"	20'-0 3/4"	20'-6 1/4"	5-8D TOE NAIL TOP PLATE, HUC3.25/12
B4	3 1/8" x 12" DF 24F-V4 GLULAM	10", 2 1/2"	19'-7"	19'-5"	5-8D TOE NAIL TOP PLATE, HUC3.25/12 22 DEG
B5	3 1/2" x 21" DF 24F-V4 GLULAM	5 1/2", 5 1/2"	25' 6 1/8"	26' 5 1/16"	5-8D TOE NAIL TOP PLATE, I212HLPC
B6	2-1 3/4" x 11 7/8" LVL	4 1/5", 4 1/2"	3' 2 1/2"	3'-11 1/2"	SEE DETAIL 16
B7ABCD	6X8 ROUGH SAWN DF	2 1/2", 5 1/2"	5'-3"	5'-9 7/16"	SEE DETAIL 30
B8AB	2-1 3/4" x 11 7/8" LVL	2", 2"	17'-2 7/16"	24" APPROX	SEE DETAIL 19, SIMPSON U410
B9A	5 1/2" x 16" DF 24F-V4 GLULAM	10", 10"	32'-0 7/8"	33'-8"	SEE DETAIL L1
B9B	5 1/2" x 16" DF 24F-V4 GLULAM	1' 5 9/16", 2"	15'-3 1/8"	21"	SEE DETAIL L1
B9C	5 1/2" x 16" DF 24F-V4 GLULAM	1' 5 9/16", 2"	15'-3 1/8"	21"	SEE DETAIL L1
B9D	5 1/2" x 5 1/2" DF	3 1/2", 3 1/2"	NA	10'-1 1/2"	SEE DETAIL L1
B10	OMITTED	OMITTED	OMITTED	OMITTED	OMITTED
B11A	2-1 3/4" x 16" LVL	5 1/2", 10" / 2"	6'-11", 4' 1 1/4", 17'-1 9/16"	29'-5 1/4"	SEE STRUCTURAL BEAM PLAN
B11B	2-1 3/4" x 16" LVL	2", 10"	17'-1 9/16", 2'-0"	20'-0"	SEE STRUCTURAL BEAM PLAN
B12ABCD	3-1 3/4" x 16" LVL	5 1/2", 2"	24'-5 3/16"	30'*	SEE STRUCTURAL BEAM PLAN
B13	5.5"x24" DF 24F-V4 GLULAM	5 1/2", 3"	23' 3 1/8"	23' 11 5/8"	SEE STRUCTURAL BEAM PLAN
B14	6.75"x24" DF 24F-V4 GLULAM	4", 5"	29'-4 5/8"	30'-1 5/8"	SEE STRUCTURAL BEAM PLAN
B15	6.75"x24" DF 24F-V4 GLULAM	2", 3"	10'-7 7/16"	11'-0 7/16"	SEE STRUCTURAL BEAM PLAN
B16	5.5"x24" DF 24F-V4 GLULAM	4", 5 1/2"	29'-9 15/16"	30'-9 7/16"	SEE STRUCTURAL BEAM PLAN
B17AB	6X8 ROUGH SAWN DF	2", 3" MITER	6'-4"	7'-0"	SEE DETAIL 30
B18	6X8 ROUGH SAWN DF	3", 3" 45 MITER	8'-8"	9'-5"	SEE DETAIL 30



- CEILING FRAMING KEYNOTES**
1. ATTIC FLOOR OUTLINE (EXTERIOR EDGE OF KNEE WALL)
  2. TOP PLATE OF LOAD BEARING WALL BELOW
  3. BLOCKING
  4. 5/8" DRYWALL SECURED TO UNDERSIDE OF TJIS SERVES AS BRACING (DRYWALL TO BE ABSENT WHERE JOISTS MEET INTERIOR WALLS)
  5. UNDERSIDE OF ROUGH SAWN FLOOR JOISTS EXPOSED
  6. BEAM B2 SECURED TO TOP PLATE WITH 6-8D TOENAILS. COLUMN I1 SECURED ABOVE/BELOW ATTIC FLOOR VIA HOLDOWN PER DETAIL 27
  7. SEE DETAIL 29 FOR CONNECTION DETAILS

**COLUMN SCHEDULE**

COLUMN	LENGTH	ATTACHMENT: BOTTOM/TOP
C1-C4	6X6 POST DF #2	SEE DETAIL 6 & 30
C5,C6	4-2X4 DF #2	SEE DETAIL 28 & 19
C7,C9,C18,C20	4-2X4 DF #2	SEE DETAIL 28 & 18
C8,C19	4-2X4 DF #2	SEE DETAIL 28, 27, 21, 25
C10	SEE DETAIL 29	SEE DETAIL 29
C11	3-2X6 POST DF #2	SEE DETAIL 29 & 27
C12	7X7 PARALAM	SEE DETAIL BELOW, SIMPSON CC78 COLUMN CAP
C13	4-2X6 POST DF #2	SEE DETAIL BELOW
C14	4-2X4 POST DF #2	SEE DETAIL 28, 27, 21
C15-C17	3-2X4 POST DF #2	5-8D TOENAIL / 5-8D TOENAIL
C21-24	6X6 POST DF #2	SEE DETAIL 5 / SIMPSON PC6Z POST CAP

**JOIST SCHEDULE**

MEMBER	LENGTH	QUANTITY	HANGER
J4A 11-7/8" TJI I10 @ 24" o.c.	17'-8 1/2"	13	IUS1.81/11.88 HANGER / NAIL SEE DRAWING
J4B 11-7/8" TJI I10 @ 24" o.c.	17'-8 1/2"	13	IUS1.81/11.88 HANGER / NAIL SEE DRAWING
J5 2X8 ROUGH SAWN #2 DF @ 12" o.c.	3'-5 13/16"	11	SIMPSON LU28R-18 / SIMPSON LU28R-18
J6 2X8 ROUGH SAWN #2 DF @ 12" o.c.	19'-5 1/8"	4	SIMPSON LU28R-18 / SIMPSON LU28R-18
J7 2X12 ROUGH SAWN #2 DF @ 24" o.c.	15'-1 13/16"	23	3-8D TOENAIL / SIMPSON U210R
J8 11-7/8" TJI I10 @ 24" o.c.	36'-0"	16	NAIL SEE DRAWING / NAIL SEE DRAWING

**General Notes**

No.	Revision/Issue	Date

Project Name and Address  
**GOLDENSTEIN RESIDENCE**  
 10685 E ROCKY HILL RD  
 DEWEY, AZ 86327

Sheet Title  
**CEILING FRAMING PLAN**

Drawn By  
**ADAM GOLDENSTEIN**

Date  
 3/22/2018

Scale  
 1/4" = 1'-0"

Sheet  
**SI.03**

**CEILING FRAMING PLAN**

1/4" = 1'-0"

**BEAM SCHEDULE**

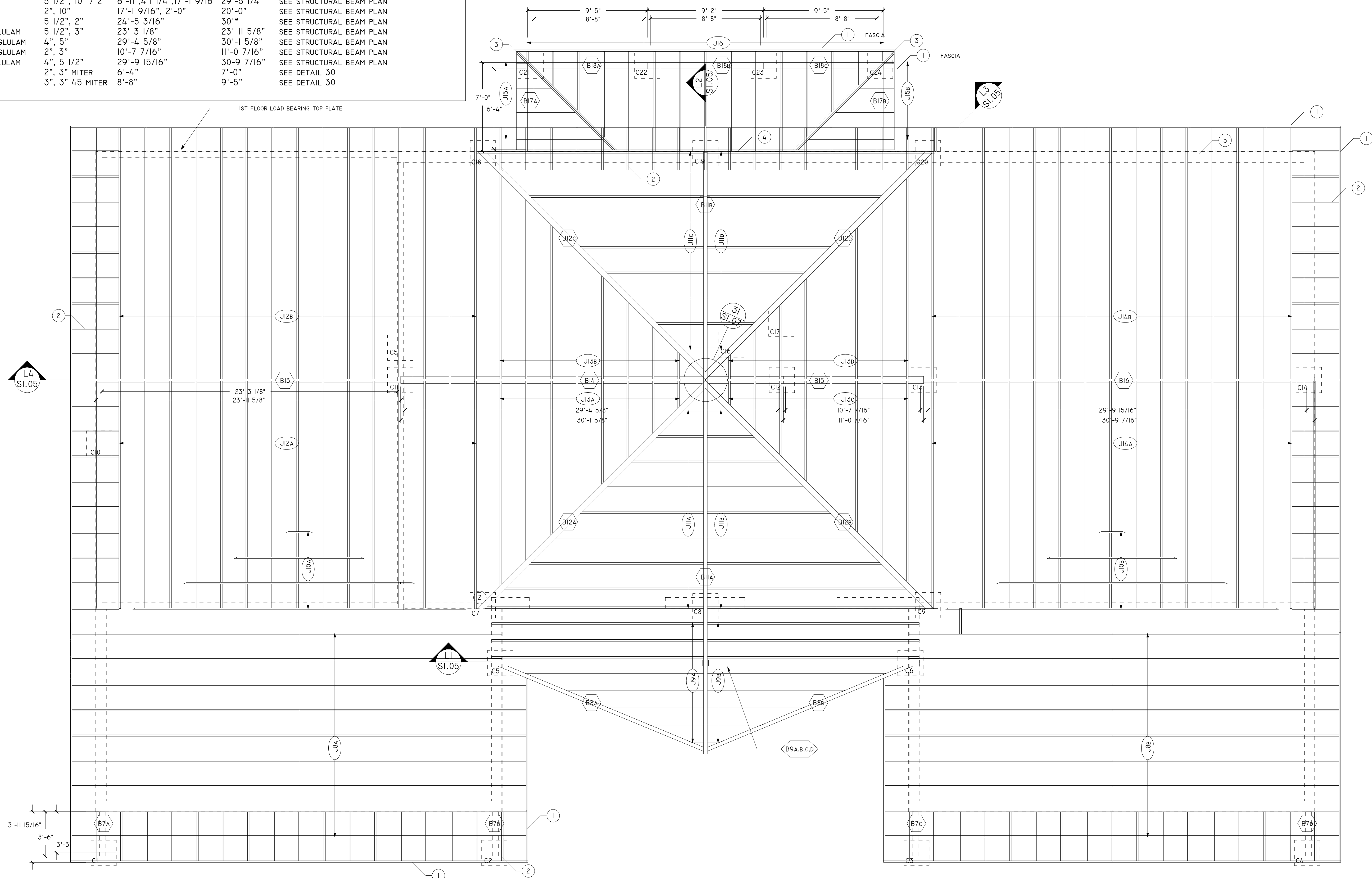
MEMBER	BEARING	SPAN	LENGTH	ATTACHMENT
B1	4-1 3/4" x 16" LVL	4 1/2", 6"	18'-0"	SEE DETAIL 29, 5-8D TOE NAIL TOP PLATE
B2	4-1 3/4" x 16" LVL	5 1/2", 6"	23'-4 1/8"	5-8D TOE NAIL TOP PLATE EACH SIDE
B3	3 1/8" x 12" DF 24F-V4 GLULAM	5 1/2", 2 1/2"	20'-6 1/4"	5-8D TOE NAIL TOP PLATE, HUC3.25/12
B4	3 1/8" x 12" DF 24F-V4 GLULAM	10", 2 1/2"	19'-7"	5-8D TOE NAIL TOP PLATE, HUC3.25/12 22 DEG
B5	3 1/2" x 21" DF 24F-V4 GLULAM	5 1/2", 5 1/2"	25' 6 1/8"	5-8D TOE NAIL TOP PLATE, I2I2HLPC
B6	2-1 3/4" x 11 7/8" LVL	4 1/5", 4 1/2"	3'2 1/2"	SEE DETAIL 16
B7ABCD	6x8 ROUGH SAWN DF	2 1/2", 5 1/2"	5'-9 7/16"	SEE DETAIL 30
B8AB	2-1 3/4" x 11 7/8" LVL	2", 2"	17'-2 7/16"	24" APPROX SEE DETAIL 19, SIMPSON U410
B9A	5 1/2" x 16" DF 24F-V4 GLULAM	10", 10"	32'-0 7/8"	SEE DETAIL 11
B9B	5 1/2" x 16" DF 24F-V4 GLULAM	1' 5 9/16", 2"	15'-3 1/8"	21" SEE DETAIL 11
B9C	5 1/2" x 16" DF 24F-V4 GLULAM	1' 5 9/16", 2"	15'-3 1/8"	21" SEE DETAIL 11
B9D	5 1/2" x 5 1/2" DF	3 1/2", 3 1/2"	10'-1 1/2"	SEE DETAIL 11
B10	OMITTED	OMITTED	OMITTED	OMITTED
B11A	2-1 3/4" x 16" LVL	5 1/2", 10" / 2"	6'-11", 4' 1 1/4", 17'-1 9/16"	29'-5 1/4" SEE STRUCTURAL BEAM PLAN
B11B	2-1 3/4" x 16" LVL	2", 10"	17'-1 9/16", 2'-0"	20'-0" SEE STRUCTURAL BEAM PLAN
B12ABCD	3-1 3/4" x 16" LVL	5 1/2", 2"	24'-5 3/16"	30" SEE STRUCTURAL BEAM PLAN
B13	5.5"x24" DF 24F-V4 GLULAM	5 1/2", 3"	23' 11 5/8"	SEE STRUCTURAL BEAM PLAN
B14	6.75"x24" DF 24F-V4 GLULAM	4", 5"	29'-4 5/8"	SEE STRUCTURAL BEAM PLAN
B15	6.75"x24" DF 24F-V4 GLULAM	2", 3"	10'-7 7/16"	SEE STRUCTURAL BEAM PLAN
B16	5.5"x24" DF 24F-V4 GLULAM	4", 5 1/2"	29'-9 15/16"	SEE STRUCTURAL BEAM PLAN
B17AB	6x8 ROUGH SAWN DF	2", 3" MITER	7'-0"	SEE DETAIL 30
B18	6x8 ROUGH SAWN DF	3", 3" 45 MITER	8'-8"	SEE DETAIL 30

**JOIST SCHEDULE**

MEMBER	LENGTH	QUANTITY	ATTACHMENT
J8A,B	PRE-FAB SCISSOR TRUSS @ 24" o.c.	32' / 35' 9" OVERALL	9*2 MTS12, 3-8D TOENAIL OR PER ENG PLANS
J9A,B	9.5" TJI 110 @ 24" o.c.	VARIOUS	8*2 SEE DETAIL 13
J10A,B	2X LUMBER VALLEY SET @ 24" o.c.	VARIOUS	4*2 3-8D TOENAIL
J11A,B,C,D	16" TJI 110 @ 16" o.c.	VARIOUS	14*4 LSSUI25 / LSSUI25
J12A,B	16" TJI 110 @ 24" o.c.	18' 0" ADD 8:12 SLOPE	15*2 IUS1.81/16 / 1-8D EACH SIDE TOP PLATE
J13A,B,C,D	16" TJI 110 @ 24" o.c.	VARIOUS	8*4 LSSUI25 / LSSUI25
J14A,B,C,D	16" TJI 110 @ 24" o.c.	18' 0" ADD 8:12 SLOPE	15*2 IUS1.81/16 / 1-8D EACH SIDE TOP PLATE
J15A,B	2x6 #2 DF @ 24" o.c.	VARIOUS	4*2 SIMPSON RR / HIZ / LSU26Z
J16	2x6 #2 DF @ 24" o.c.	VARIOUS	15 SIMPSON RR / HIZ / LSU26Z

**ROOF FRAMING KEYNOTES**

- 2X6 FASCIA
- 2X4 OUTRIGGERS PER DETAIL 15
- DECK ROOF 2X6 (DOUBLED) HIP JOIST
- 2X6 NAILER FOR PORCH ATTACHMENT
- BLOCKING PER DETAIL 17



General Notes

No.	Revision/Issue	Date

ROOF FRAMING PLAN

**GOLDENSTEIN RESIDENCE**  
 10685 E ROCKY HILL RD  
 DEWEY, AZ 86327

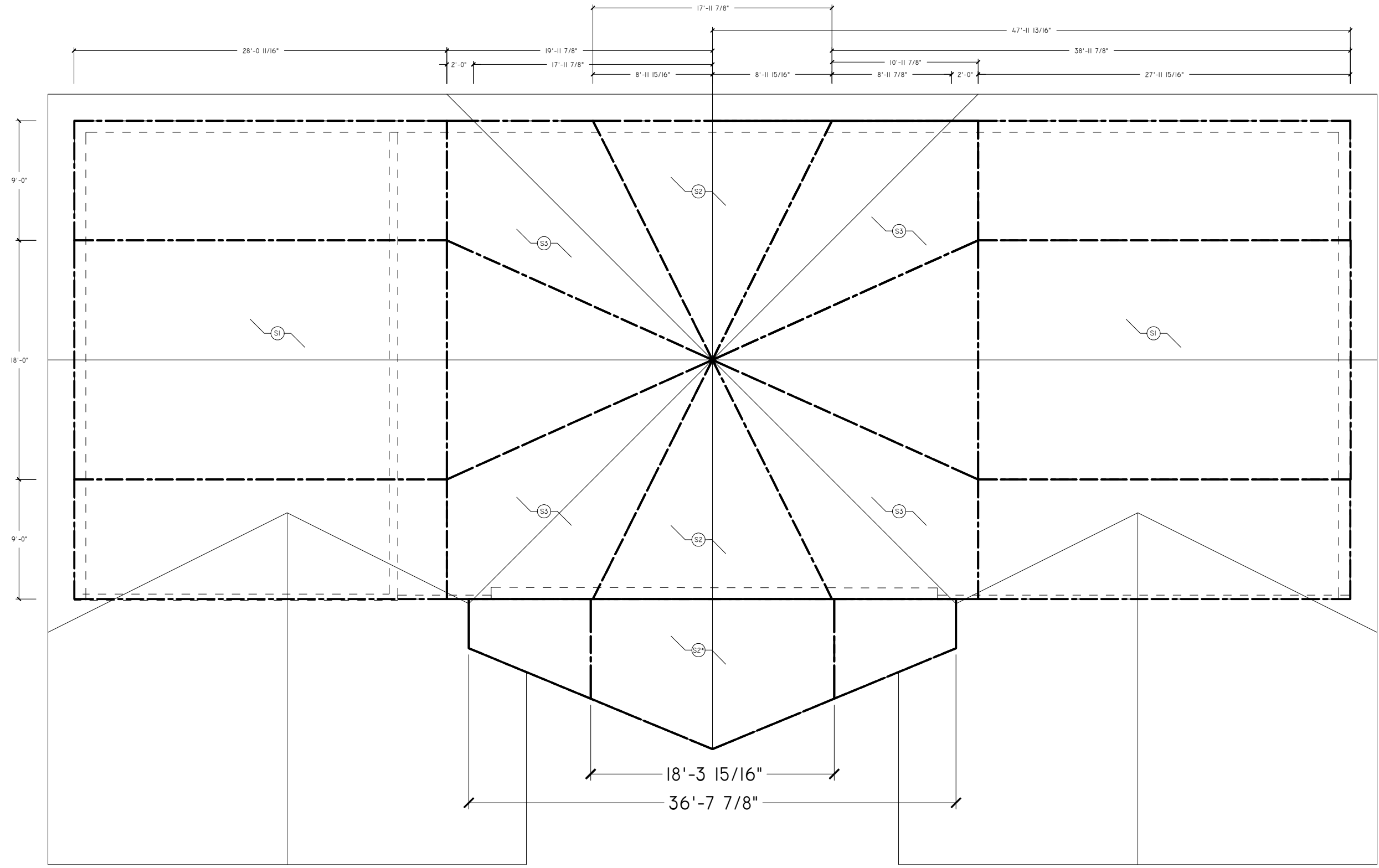
Drawn By <b>ADAM GOLDENSTEIN</b> Date 3/22/2018 Scale 1/4" = 1'-0"	Sheet <b>SI.04</b>
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**ROOF FRAMING PLAN**



MEMBER	BEARING	SPAN	LENGTH	ATTACHMENT
B1	4-1 3/4" x 16" LVL	4 1/2" x 6"	18'-0 1/2"	SEE DETAIL 29, 5-BD TOE NAIL TOP PLATE
B2	4-1 3/4" x 16" LVL	5 1/2" x 6"	24'-3 5/8"	5-BD TOE NAIL TOP PLATE EACH SIDE
B3	3 1/8" x 12" DF 24F-VL GULLAH	5 1/2" x 1 1/2"	20'-0 3/4"	20'-0 3/4" S-BD TOE NAIL TOP PLATE HUC3.25(1/2) Z2 DEG
B4	3 1/8" x 12" DF 24F-VL GULLAH	10" x 2 1/2"	19'-5"	S-BD TOE NAIL TOP PLATE HUC3.25(1/2) Z2 DEG
B5	3 1/2" x 2" DF 24F-VL GULLAH	5 1/2" x 5 1/2"	25' 6 1/8"	5'-0 1/2" S-BD TOE NAIL TOP PLATE 120LHPC
B6	2-1 3/4" x 11 7/8" LVL	4 1/2" x 4 1/2"	5'-0 1/2"	SEE DETAIL 16
B7	6x8 ROUGH SAWN DF	2 1/2" x 5 1/2"	3'-5"	SEE DETAIL 30
B8	2-1 3/4" x 11 7/8" LVL	2' x 2"	17'-2 7/16"	24" APPROX SEE DETAIL 19, SIMPSON LIGID
B9	5 1/2" x 16" DF 24F-VL GULLAH	10' x 10"	32'-0 7/8"	SEE DETAIL 11
B9B	5 1/2" x 16" DF 24F-VL GULLAH	1' 5 9/16" x 2"	15'-3 1/8"	21" SEE DETAIL 11
B9C	5 1/2" x 16" DF 24F-VL GULLAH	1' 5 9/16" x 2"	15'-3 1/8"	21" SEE DETAIL 11
B9D	5 1/2" x 16" DF 24F-VL GULLAH	5 1/2" x 3 1/2"	NA	20'-1 1/2" SEE DETAIL 11
B10	OMITTED	OMITTED	OMITTED	OMITTED
B11A	2-1 3/4" x 16" LVL	5 1/2" x 2"	10'-1 1/2"	SEE STRUCTURAL BEAM PLAN
B11B	2-1 3/4" x 16" LVL	2' x 10"	17'-1 9/16" 2'-0"	20'-0" SEE STRUCTURAL BEAM PLAN
B12	2-1 3/4" x 16" LVL	5 1/2" x 2"	24'-0 3/16"	30" SEE STRUCTURAL BEAM PLAN
B13	5.5"x24" DF 24F-VL GULLAH	5 1/2" x 3"	23'-3 1/8"	23'-3 1/8" SEE STRUCTURAL BEAM PLAN
B14	6.75"x24" DF 24F-VL GULLAH	4' x 5"	29'-4 5/8"	30'-1 5/8" SEE STRUCTURAL BEAM PLAN
B15	6.75"x24" DF 24F-VL GULLAH	2' x 3"	10'-7 7/16"	11'-0 7/16" SEE STRUCTURAL BEAM PLAN
B16	5.5"x24" DF 24F-VL GULLAH	4' x 5 1/2"	29'-4 5/8"	30'-9 7/16" SEE STRUCTURAL BEAM PLAN
B17	6x8 ROUGH SAWN DF	2' x 3" MITER	6'-4"	7'-0" SEE DETAIL 30
B18	6x8 ROUGH SAWN DF	3' x 3" 45 MITER	8'-8"	9'-5" SEE DETAIL 30

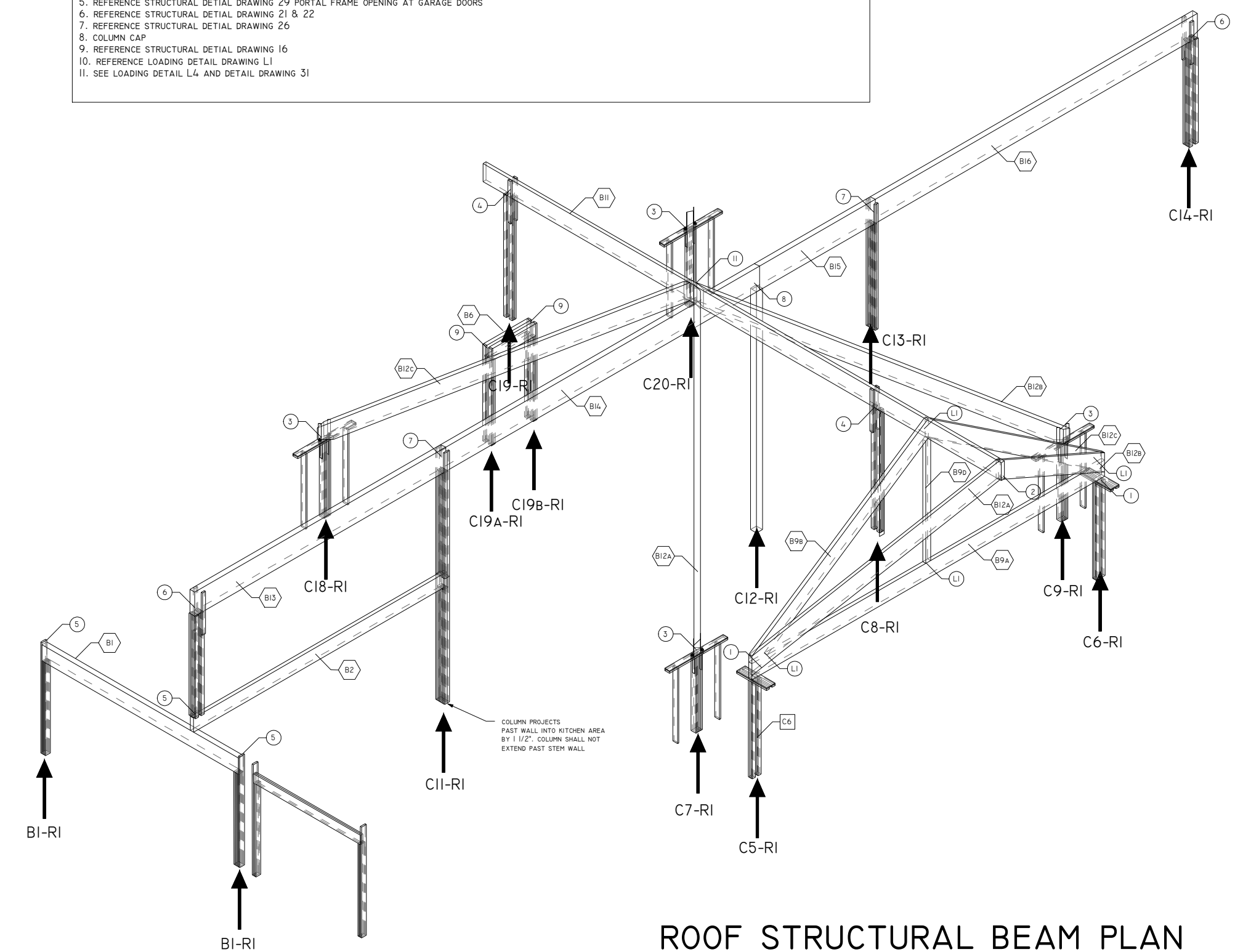
COLUMN	LENGTH	ATTACHMENT: BOTTOM/TOP
C1-C4	6x6 POST DF #2	SEE DETAIL 6 & 30
C5-C6	4-2x4 DF #2	SEE DETAIL 28 & 19
C7-C9, C18-C20	4-2x4 DF #2	SEE DETAIL 28 & 18
C10-C17	4-2x4 DF #2	SEE DETAIL 28, 27, 21, 25
C18	SEE DETAIL 29	SEE DETAIL 29
C19	3-2x6 POST DF #2	SEE DETAIL 29 & 27
C21	7x7 PARALAM	SEE DETAIL 32, SIMPSON CCT8 COLUMN CAP
C22	4-2x4 POST DF #2	SEE DETAIL 32
C23	4-2x4 POST DF #2	SEE DETAIL 28, 27, 21
C24	3-2x6 POST DF #2	SEE DETAIL 32
C25	6x6 POST DF #2	SEE DETAIL 5 / SIMPSON PCOZ POST CAP



ROOF BEAM LOADING TRIBUTARY AREAS

1/8" = 1'-0"

- STRUCTURAL BEAM ATTACHMENT NOTES**
1. REFERENCE STRUCTURAL DETAIL DRAWINGS 19 & 20
  2. SIMPSON LIGID FACE HANGER FOR B12/B11 AND B10/B11
  3. REFERENCE STRUCTURAL DETAIL DRAWING 8
  4. REFERENCE STRUCTURAL DETAIL DRAWING 23, 24, & 25
  5. REFERENCE STRUCTURAL DETAIL DRAWING 29 PORTAL FRAME OPENING AT GARAGE DOORS
  6. REFERENCE STRUCTURAL DETAIL DRAWING 21 & 22
  7. REFERENCE STRUCTURAL DETAIL DRAWING 26
  8. COLUMN CAP
  9. REFERENCE STRUCTURAL DETAIL DRAWING 16
  10. REFERENCE LOADING DETAIL DRAWING L1
  11. SEE LOADING DETAIL L3 AND DETAIL DRAWING 31



ROOF STRUCTURAL BEAM PLAN

NOT TO SCALE

**General Notes**

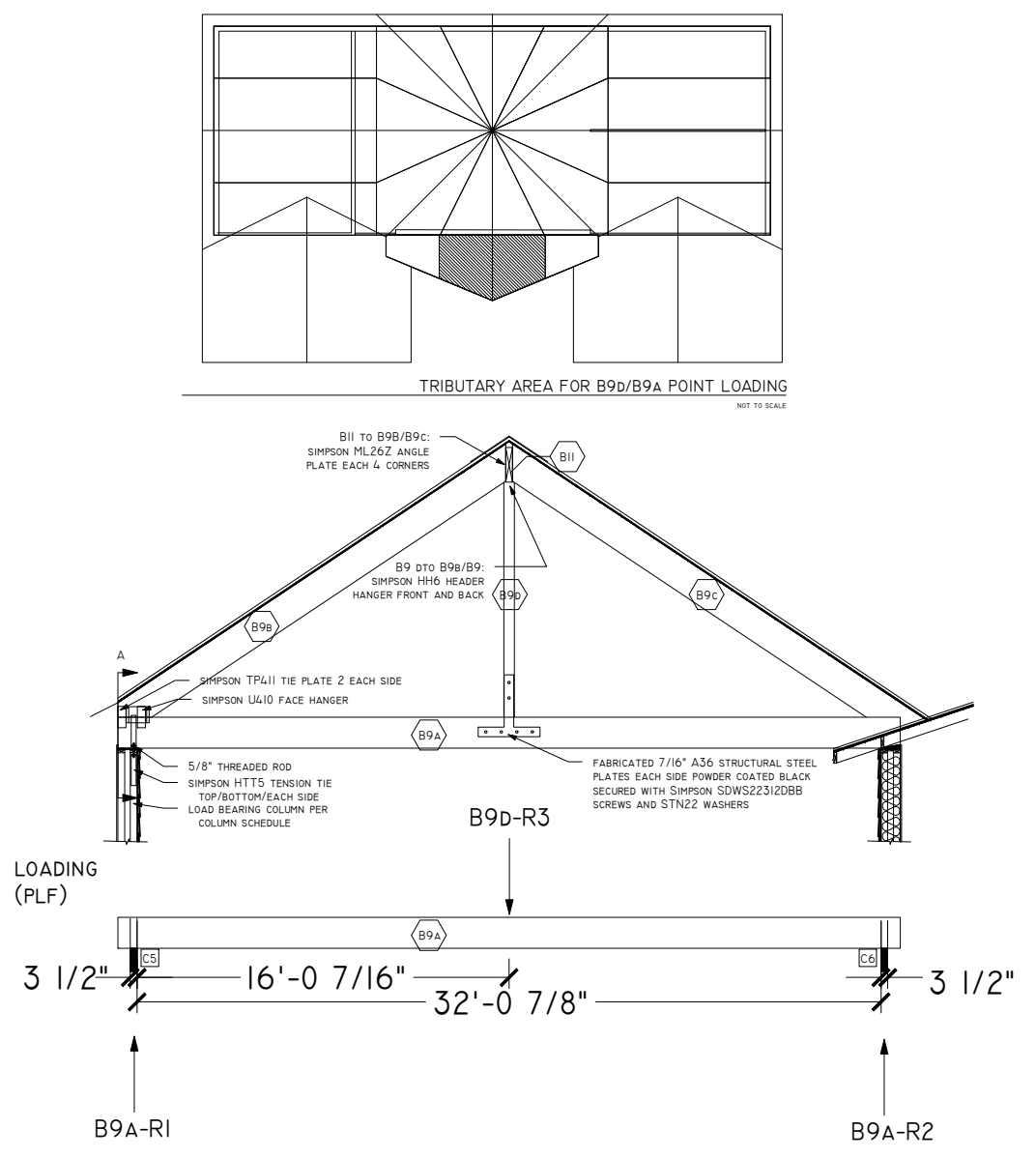
No.	Revision/Issue	Date

**STRUCTURAL BEAM PLAN**

**GOLDENSTEIN RESIDENCE**

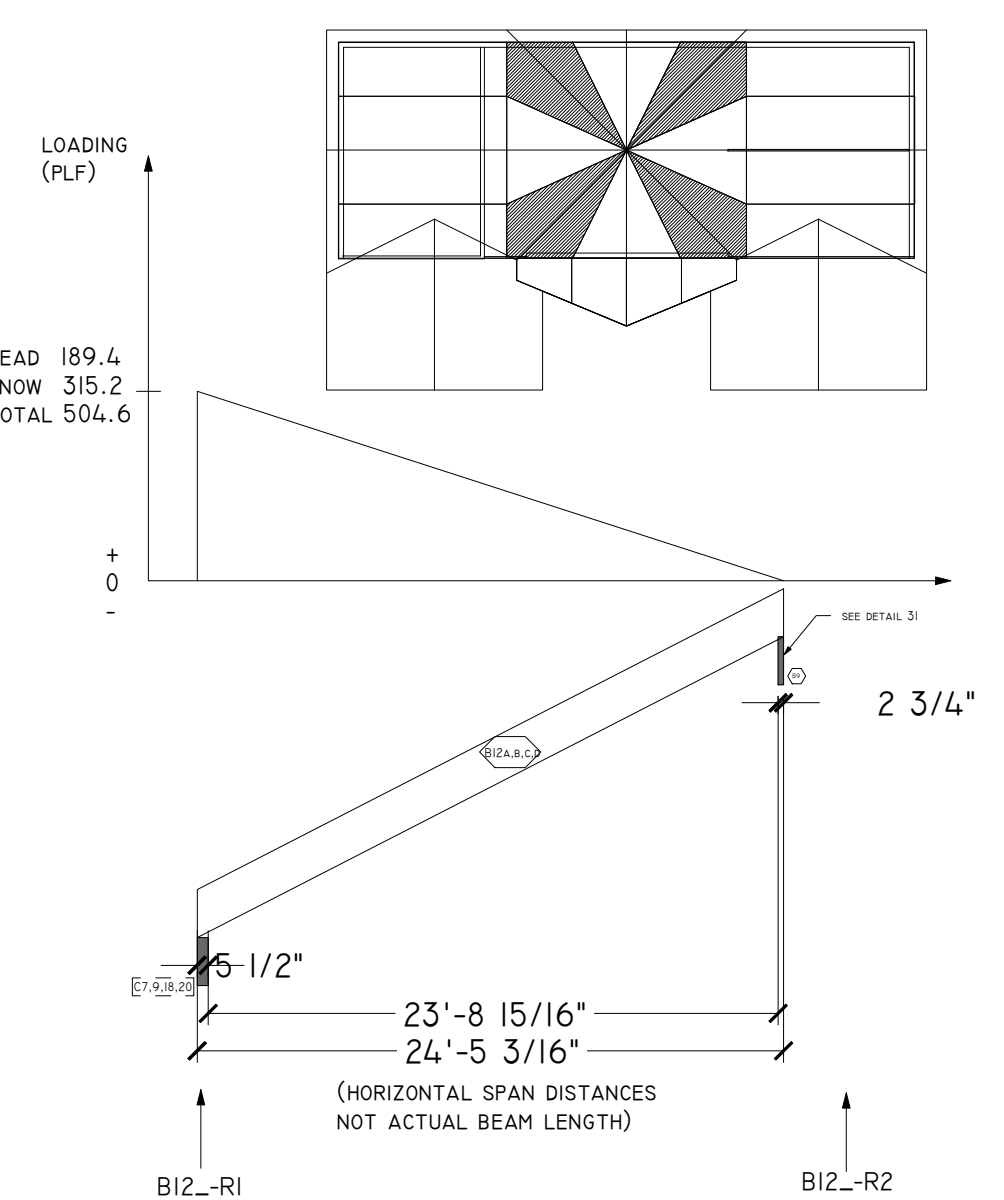
10685 E ROCKY HILL RD  
DEWEY, AZ 86327

Project Name and Address	Sheet
Drawn By ADAM GOLDENSTEIN	3/22/2018
Date	SI.05
Scale 1/4" = 1'-0"	



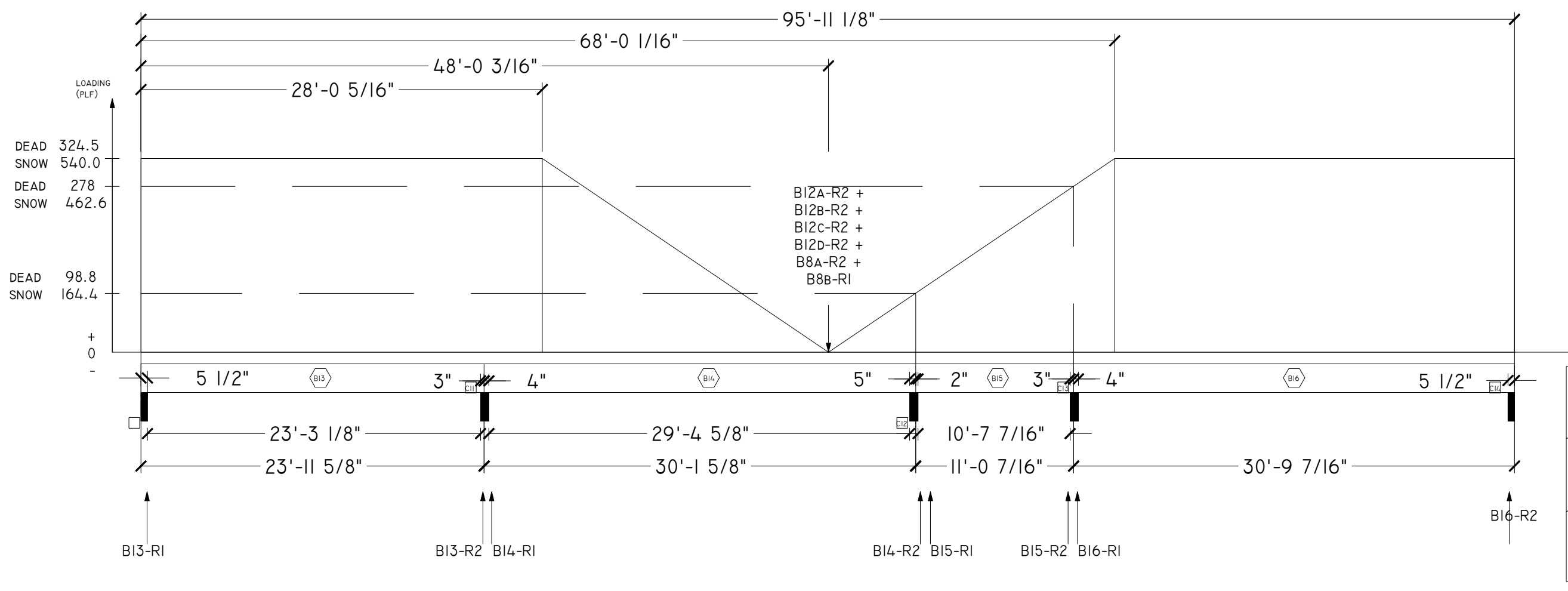
L1 PORCH TRUSS BEAM LOADING

1/8" = 1'-0"



L2 VALLEY BEAM(S) LOADING

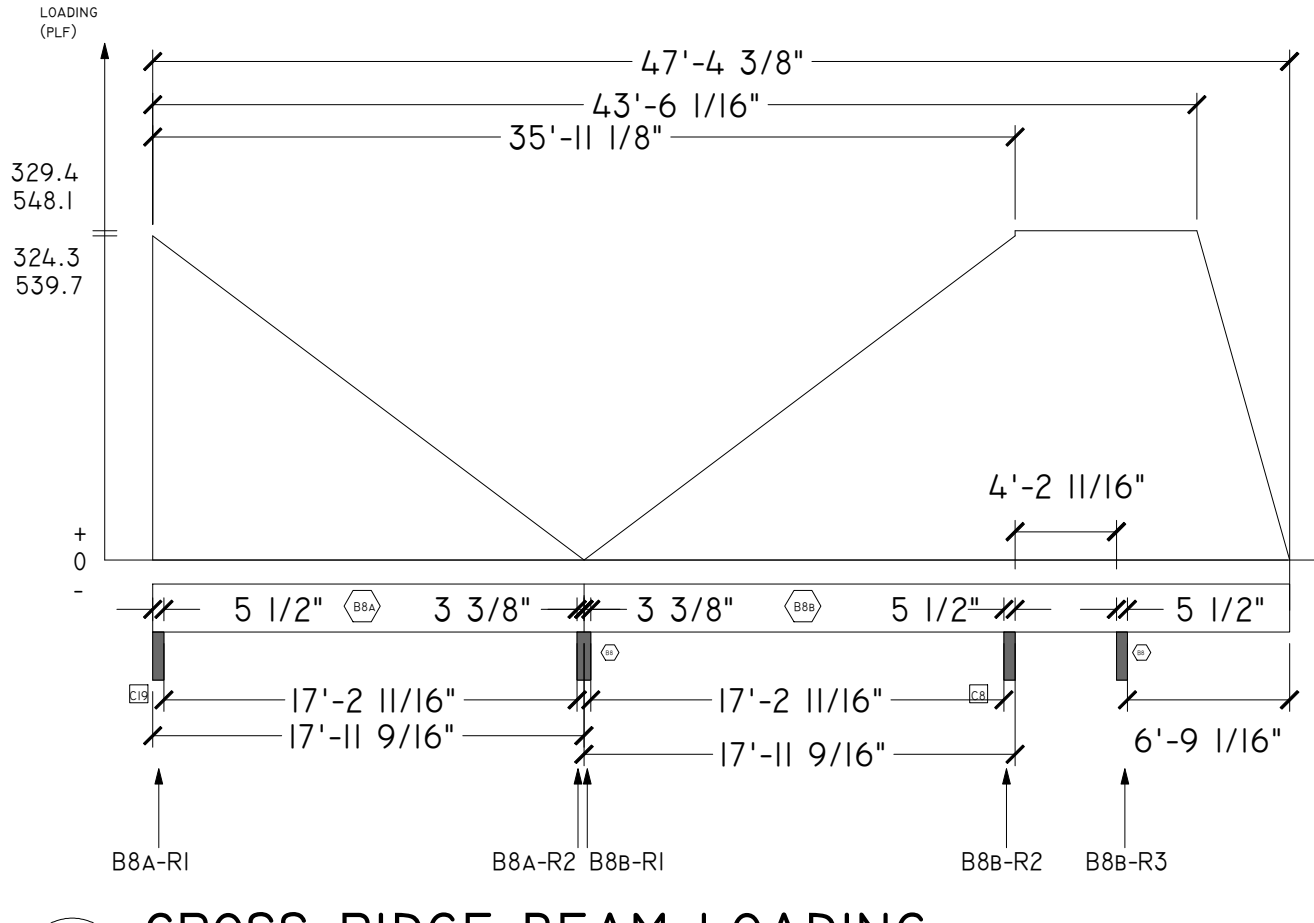
1/8" = 1'-0"



L3 MAIN RIDGE DROP BEAM(S) LOADING DIAGRAM

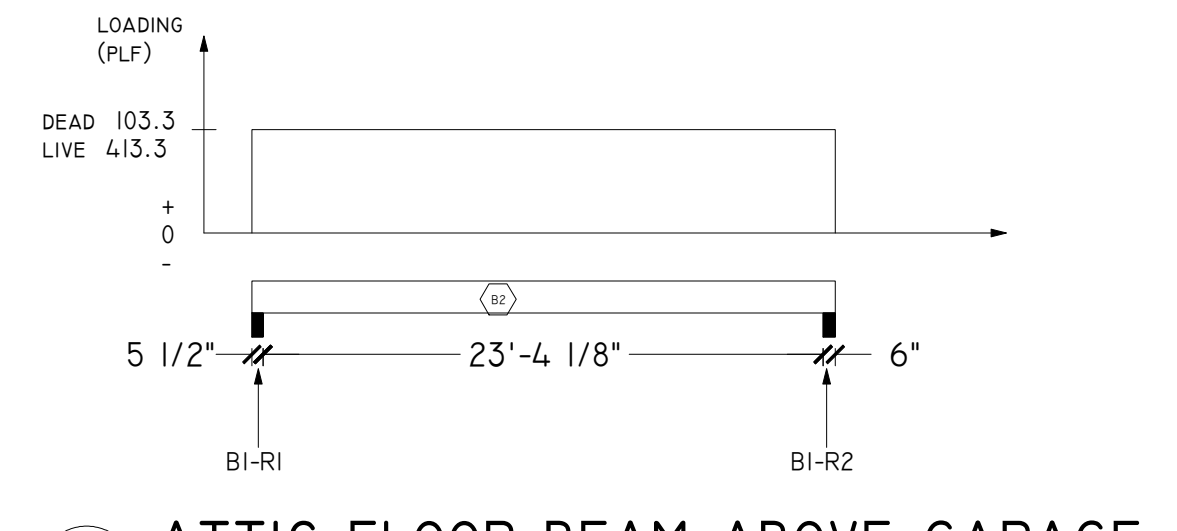
1/8" = 1'-0"

NOTE:  
ENGINEERING ANALYSIS OF LOAD BEARING  
BEAMS AND COLUMNS/POSTS AVAILABLE ON REQUEST



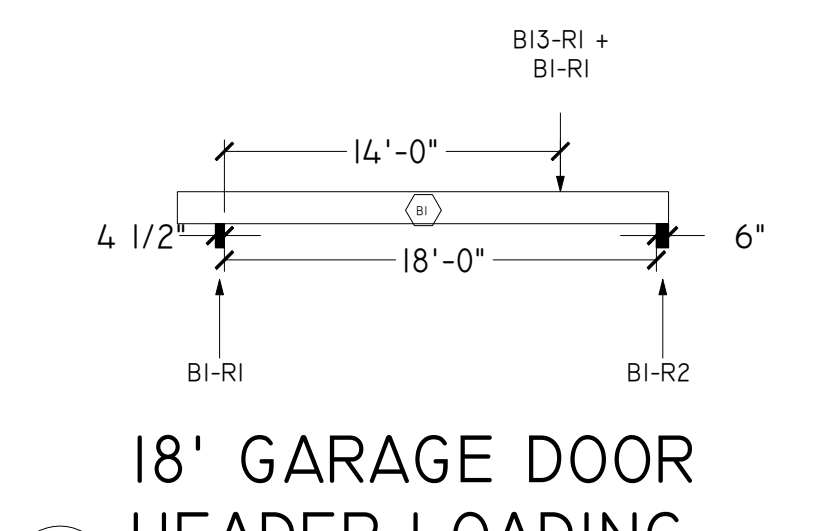
L4 CROSS RIDGE BEAM LOADING

1/8" = 1'-0"



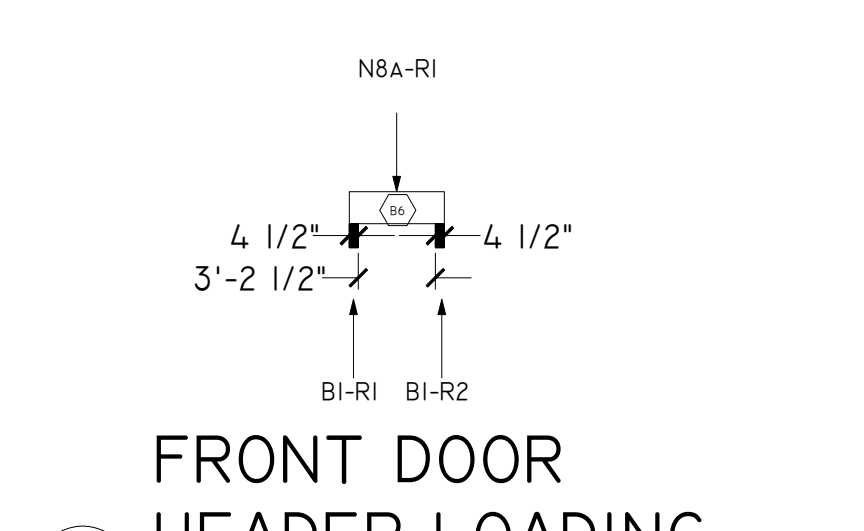
L5 ATTIC FLOOR BEAM ABOVE GARAGE

1/8" = 1'-0"



L6 18' GARAGE DOOR HEADER LOADING

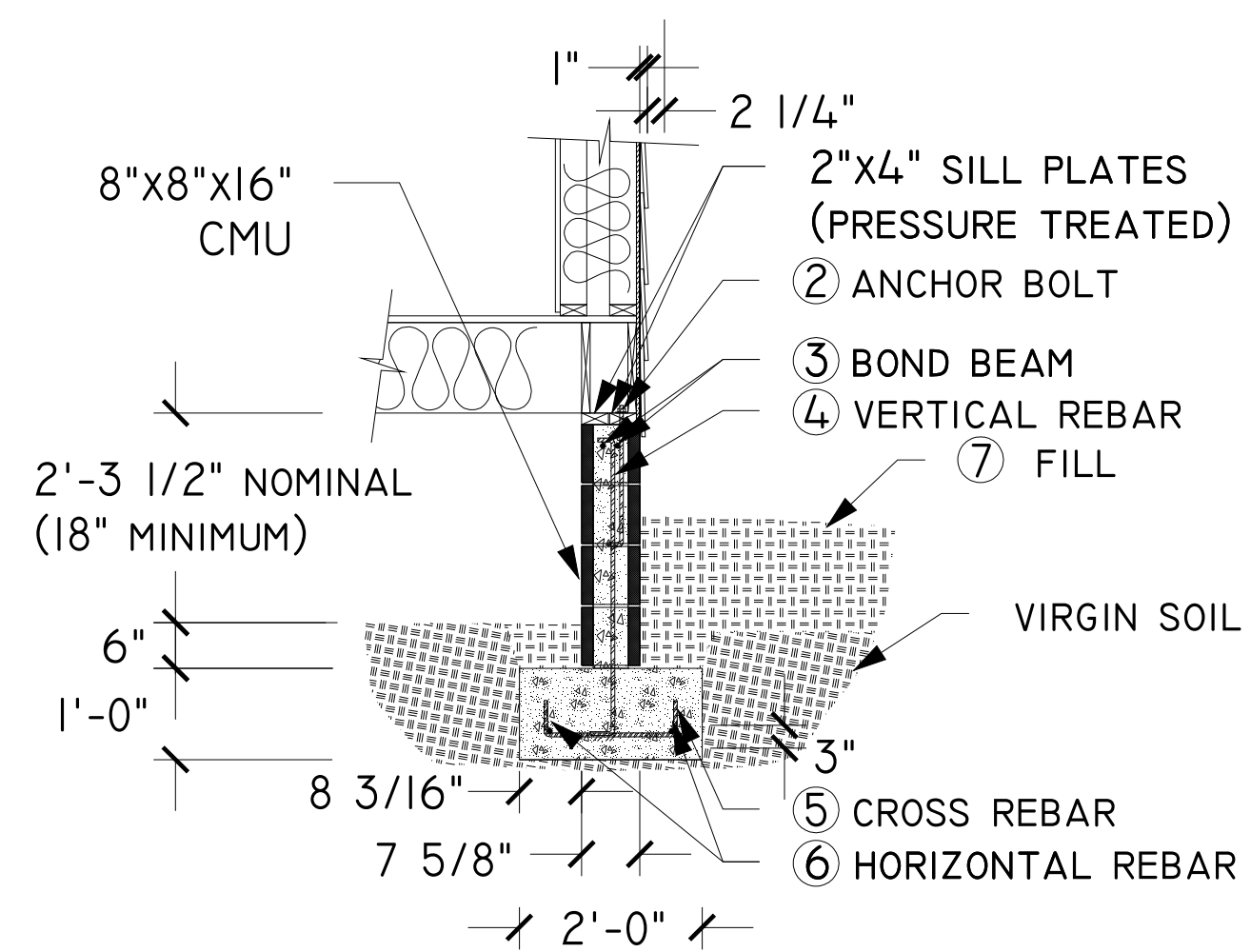
1/8" = 1'-0"



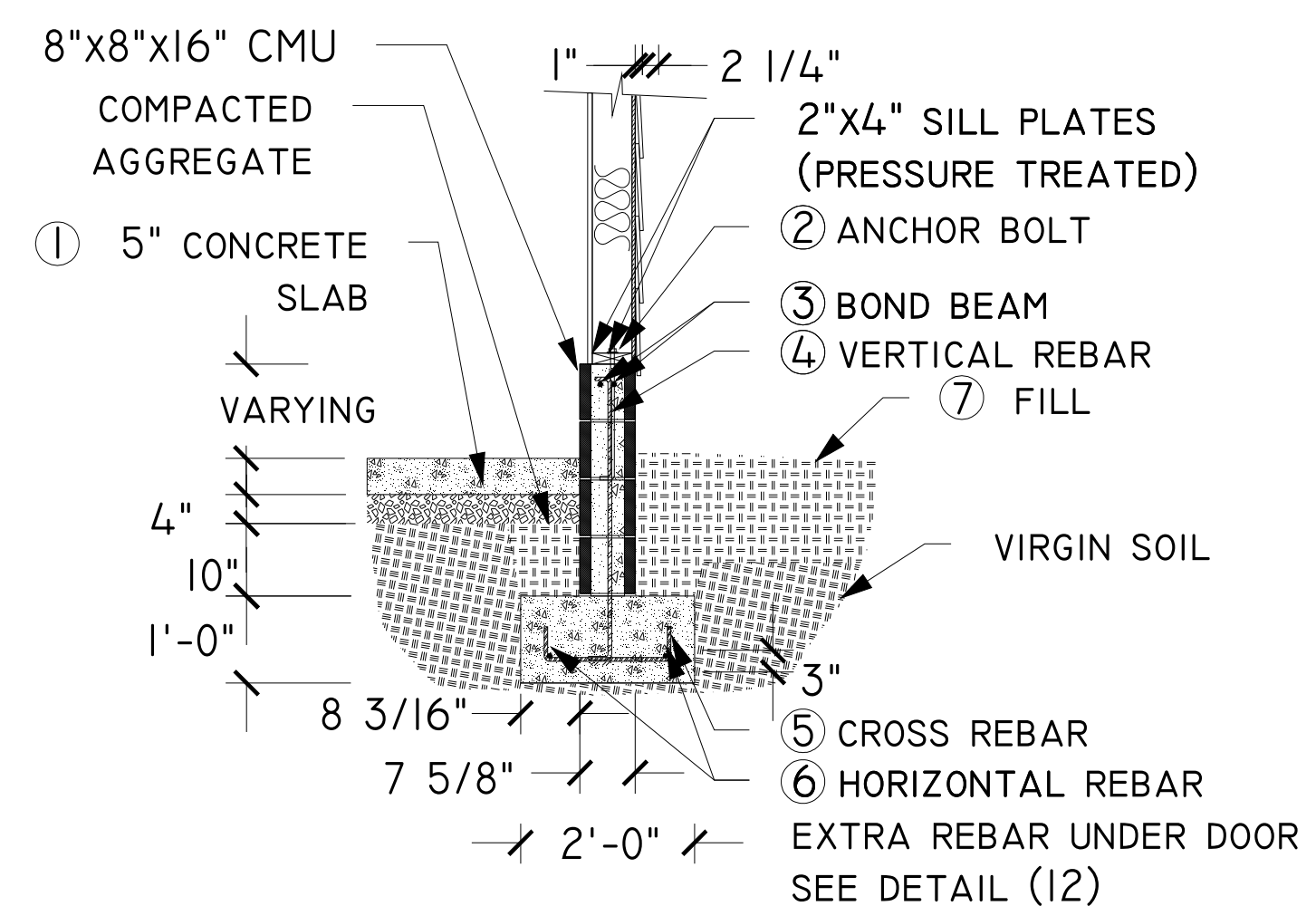
L6 FRONT DOOR HEADER LOADING

1/8" = 1'-0"

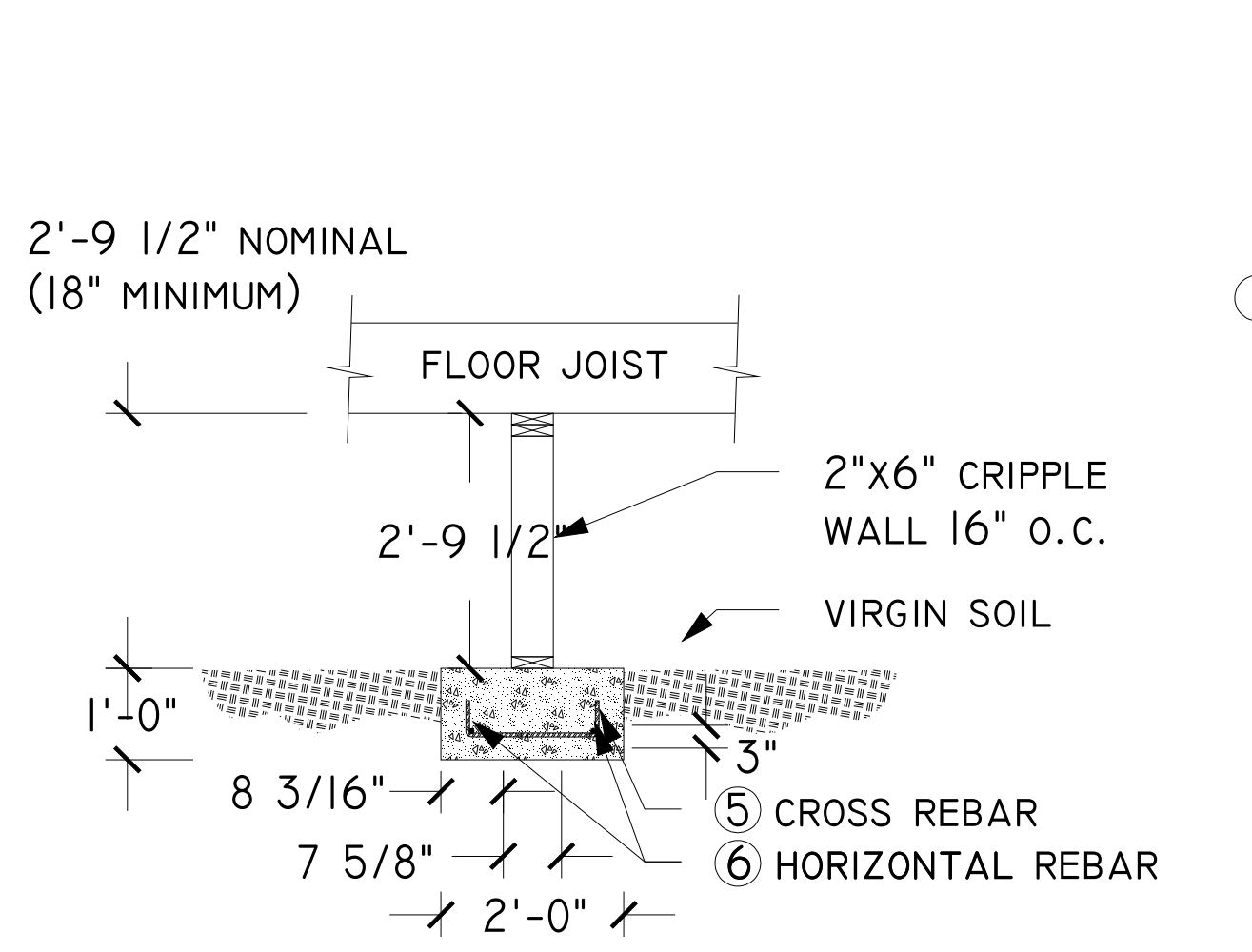




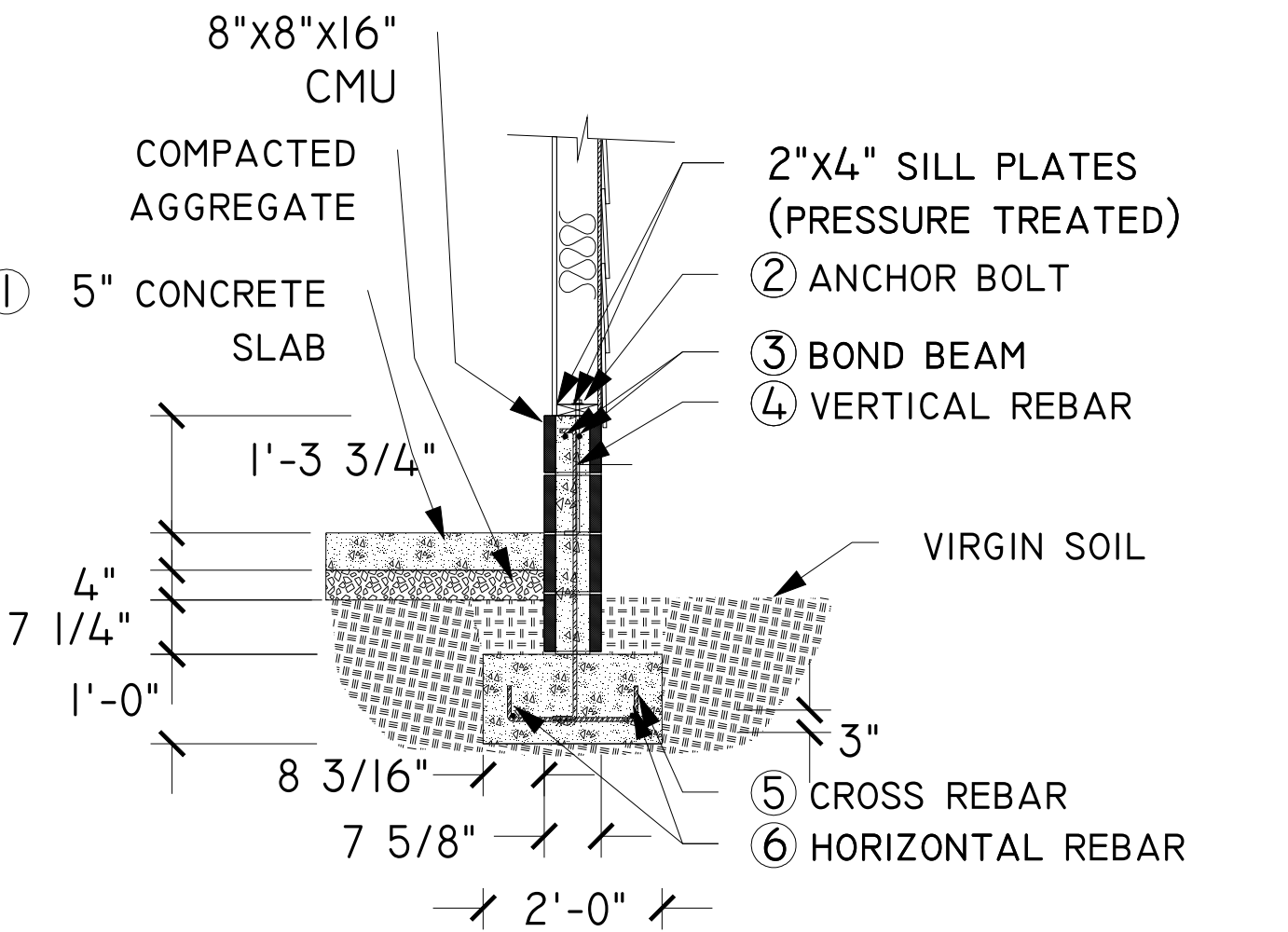
1 TYPICAL FOOTER AND STEM WALL SECTION  
1/2" = 1'-0"



2 GARAGE FOOTER AND STEM WALL SECTION  
1/2" = 1'-0"

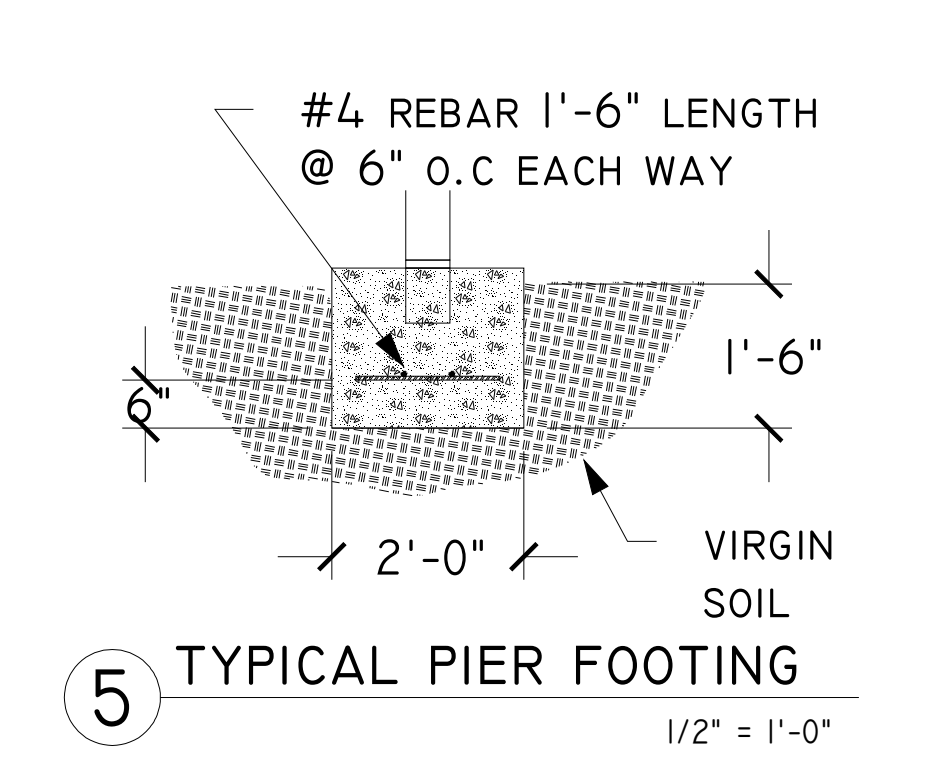


3 CRAWLSPACE FOOTER AND WALL SECTION  
1/2" = 1'-0"

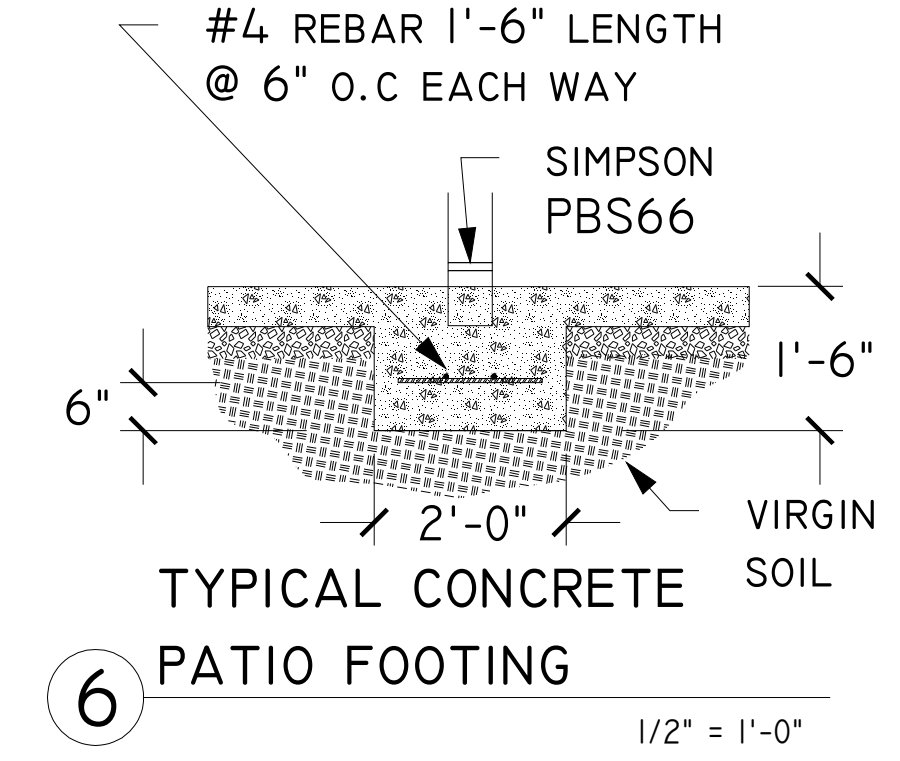


4 GARAGE FOOTER AND STEM WALL SECTION  
1/2" = 1'-0"

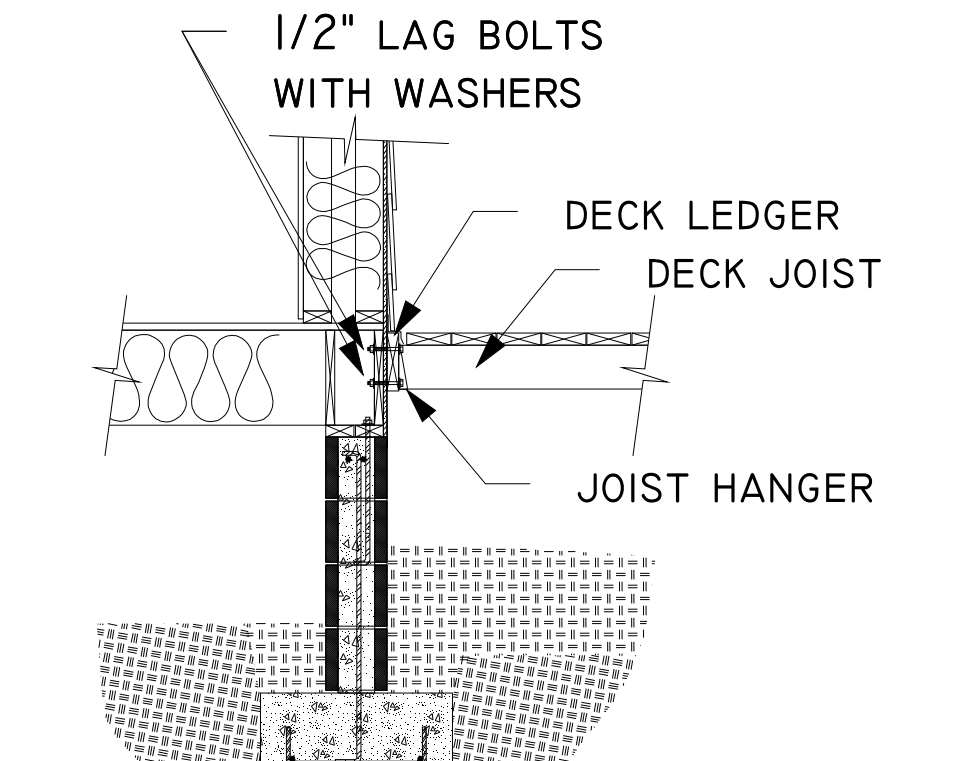
- DETAIL KEYNOTES**
1. CONCRETE SLAB 5" THICK WITH #4 REBAR @ 24" O.C EACH WAY OVER 4" COMPACTED AGGREGATE BASE.
  2. SIL PLATE ANCHOR BOLTS SHALL BE MINIMUM OF 1/2" DIAMETER AND EXTEND AT LEAST 7" INTO GROUTED CELLS OF CMUS. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PLATE SECTION WITH ONE BOLT NOT LOCATED MORE THAN 12" FROM EACH END OF THE PLATE SECTION
  3. THERE SHALL BE AT LEAST ONE 5/8" DIAMETER ANCHOR BOLT PER EACH LOAD BEARING COLUMN AND THE BOLT SHALL EXTEND AT LEAST 20-5/8" INTO GROUTED CMUS.
  4. BOND BEAM - (2) #4 REBAR CONTINUOUS WITHIN 12" FROM TOP OF STEM WALL
  5. VERTICAL REBAR - #4 REBAR 4' O.C. SHALL EXTEND BETWEEN 3" AND 4" FROM BOTTOM OF FOOTING AND HAVE A STANDARD HOOK EXTEND A MINIMUM OF 14" INTO THE STEM WALL
  6. HORIZONTAL REBAR - (2) #4 REBAR CONTINUOUS MINIMUM 3" FROM BOTTOM OF FOOTING
  7. CROSS REBAR - #4 REBAR 2' O.C. IN LINE WITH VERTICAL REBAR
  8. PAD AREA GRADED TO SLOPED AWAY FROM BUILDING AT A MINIMUM OF 6" VERTICAL IN THE FIRST 10' AS MEASURED PERPENDICULAR FROM STEM WALL.



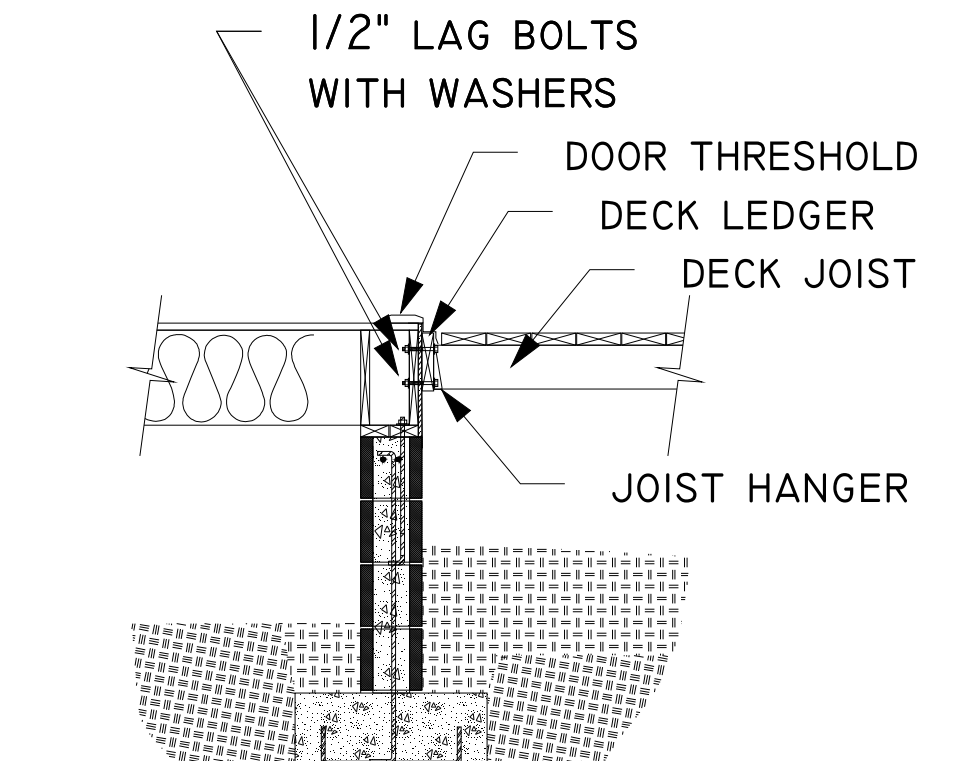
5 TYPICAL PIER FOOTING  
1/2" = 1'-0"



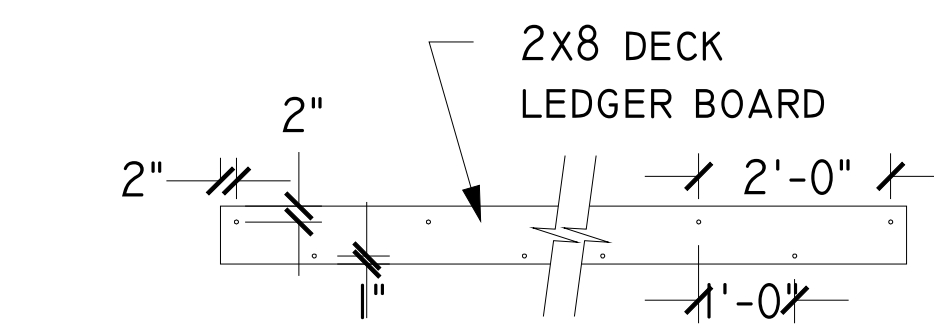
6 TYPICAL CONCRETE PATIO FOOTING  
1/2" = 1'-0"



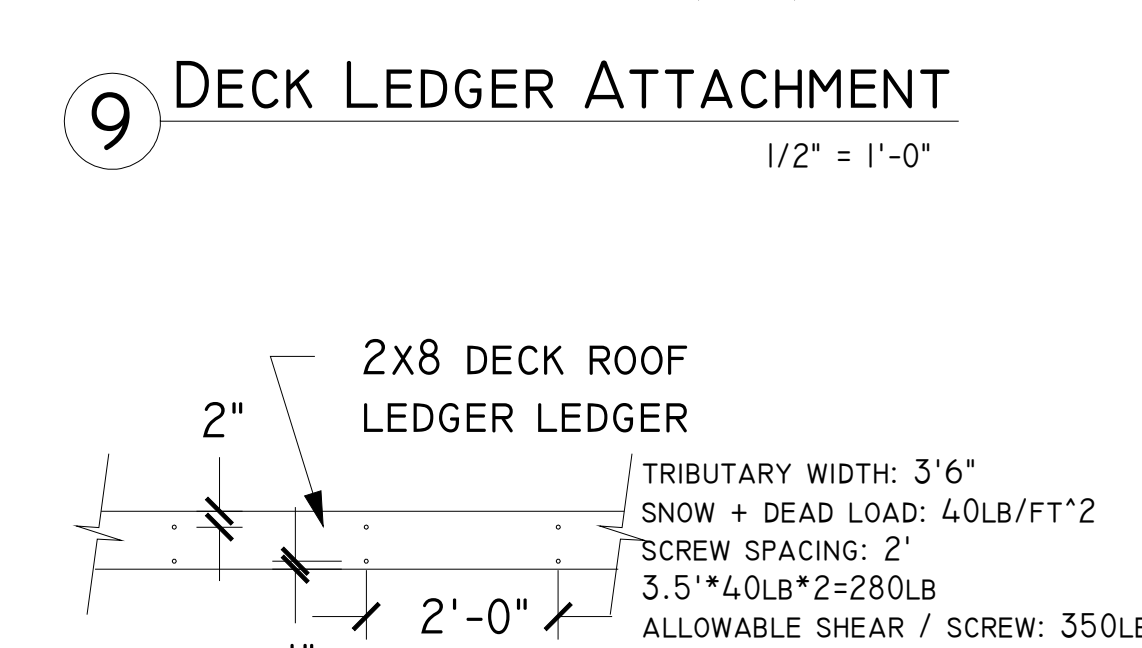
7 DECK ATTACHMENT AT WALL  
1/2" = 1'-0"



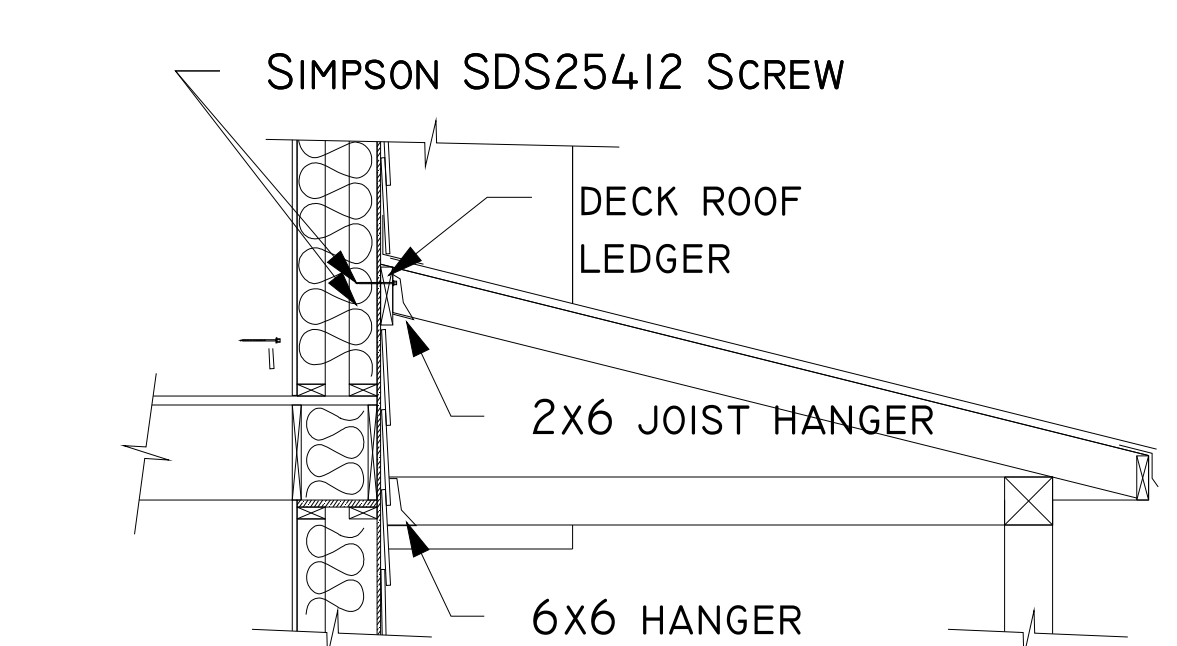
8 DECK ATTACHMENT AT DOOR  
1/2" = 1'-0"



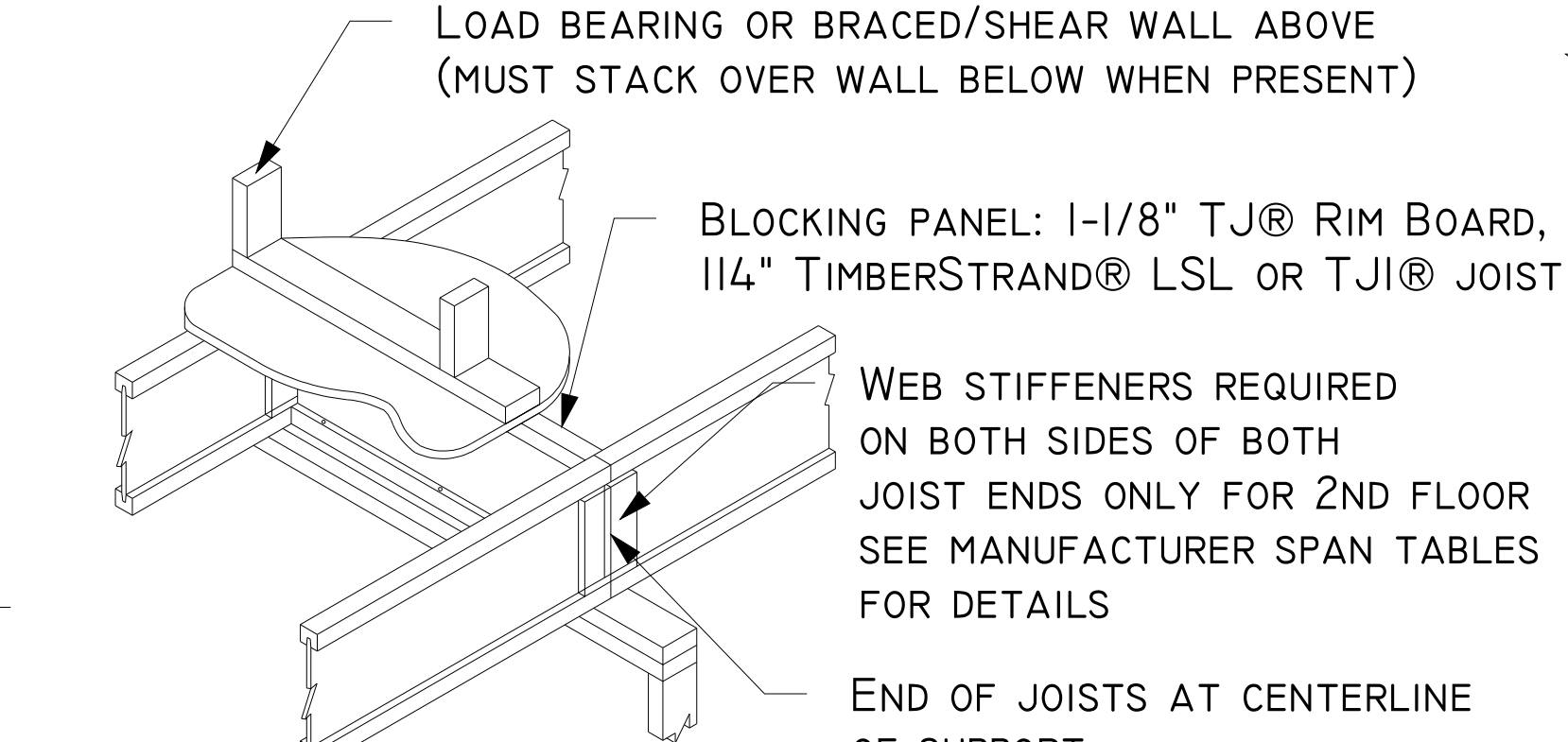
9 DECK LEDGER ATTACHMENT  
1/2" = 1'-0"



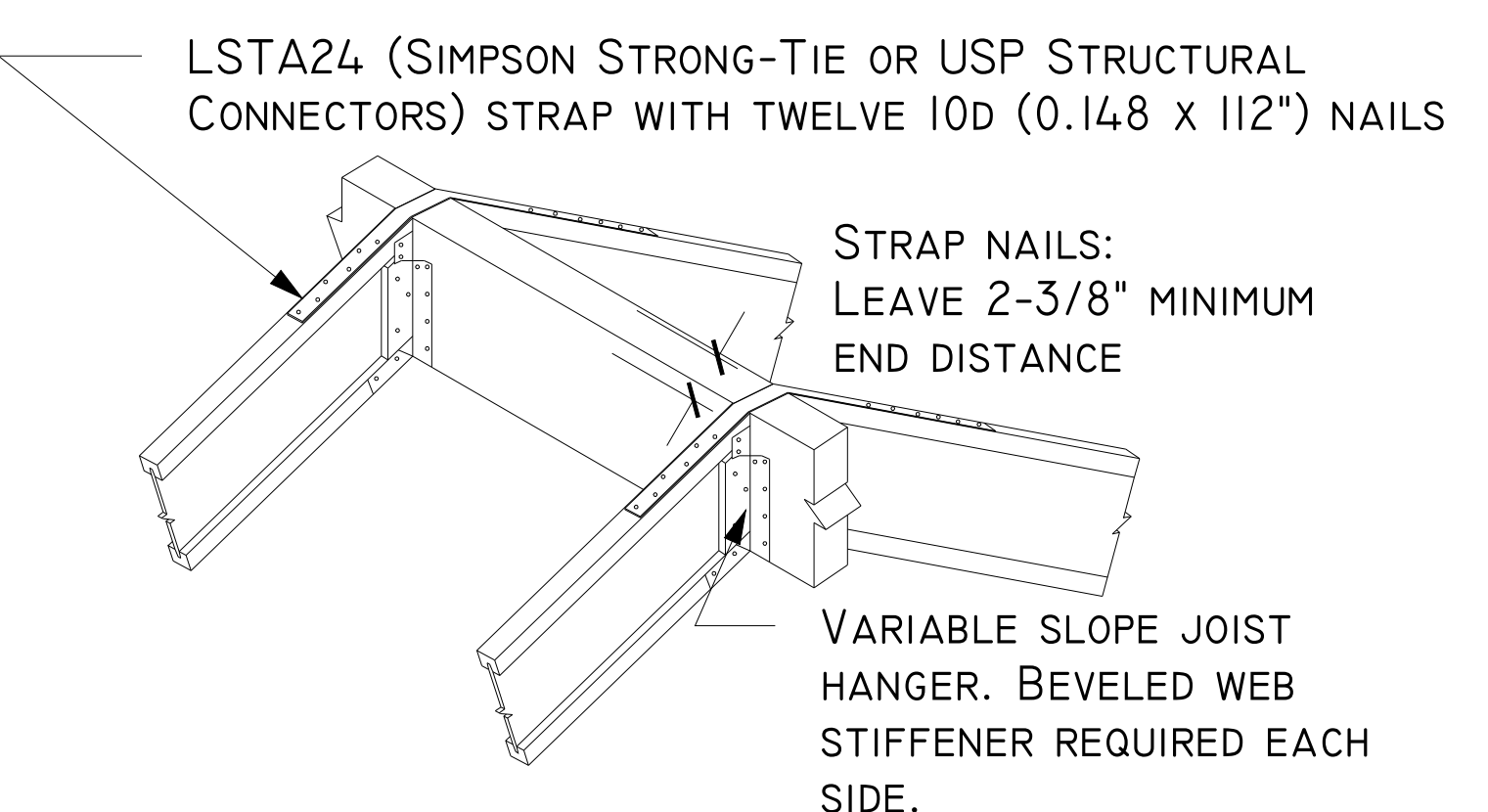
10 DECK ROOF LEDGER ATTACHMENT  
1/2" = 1'-0"



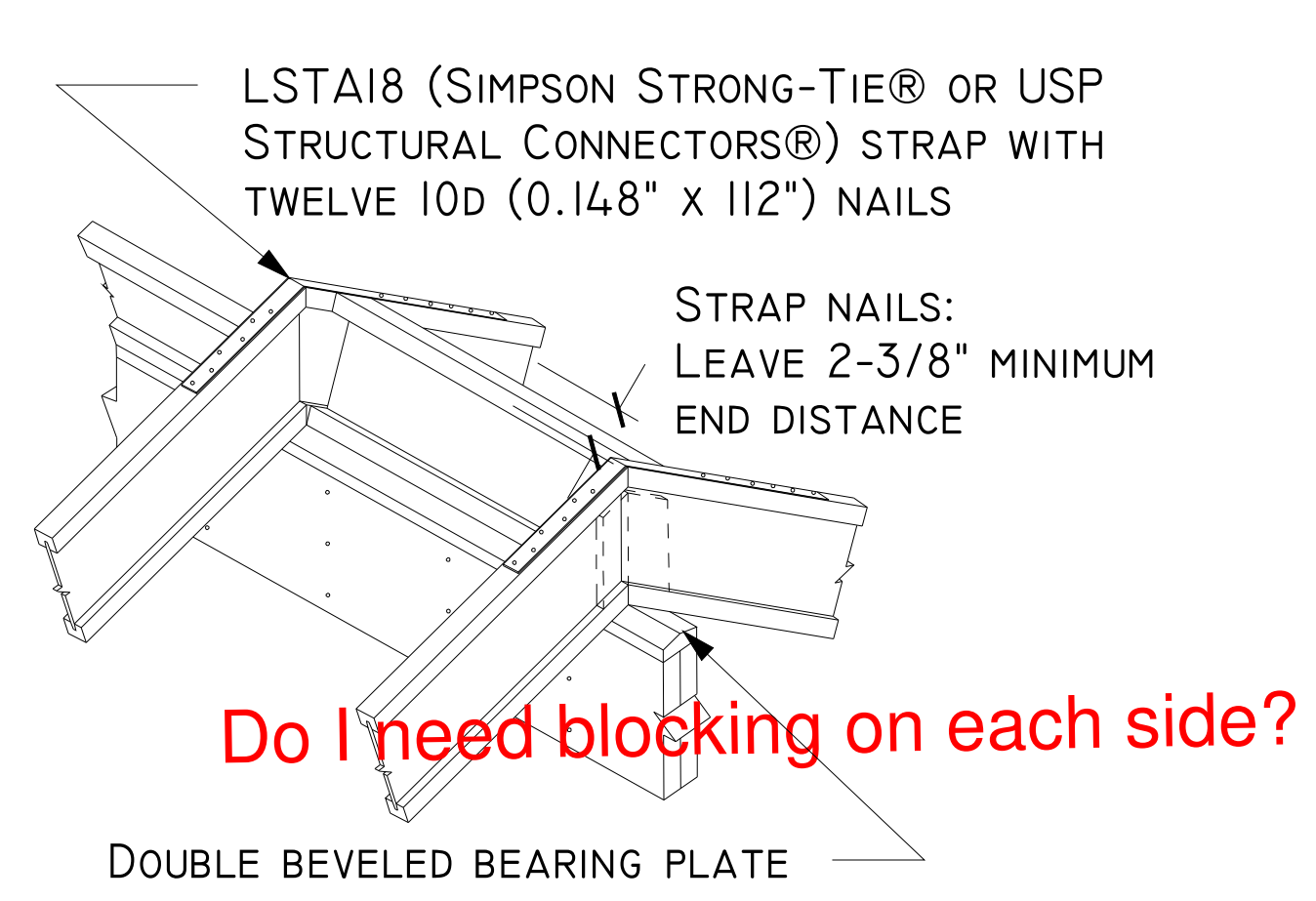
11 DECK ROOF ATTACHMENT AT WALL  
1/2" = 1'-0"



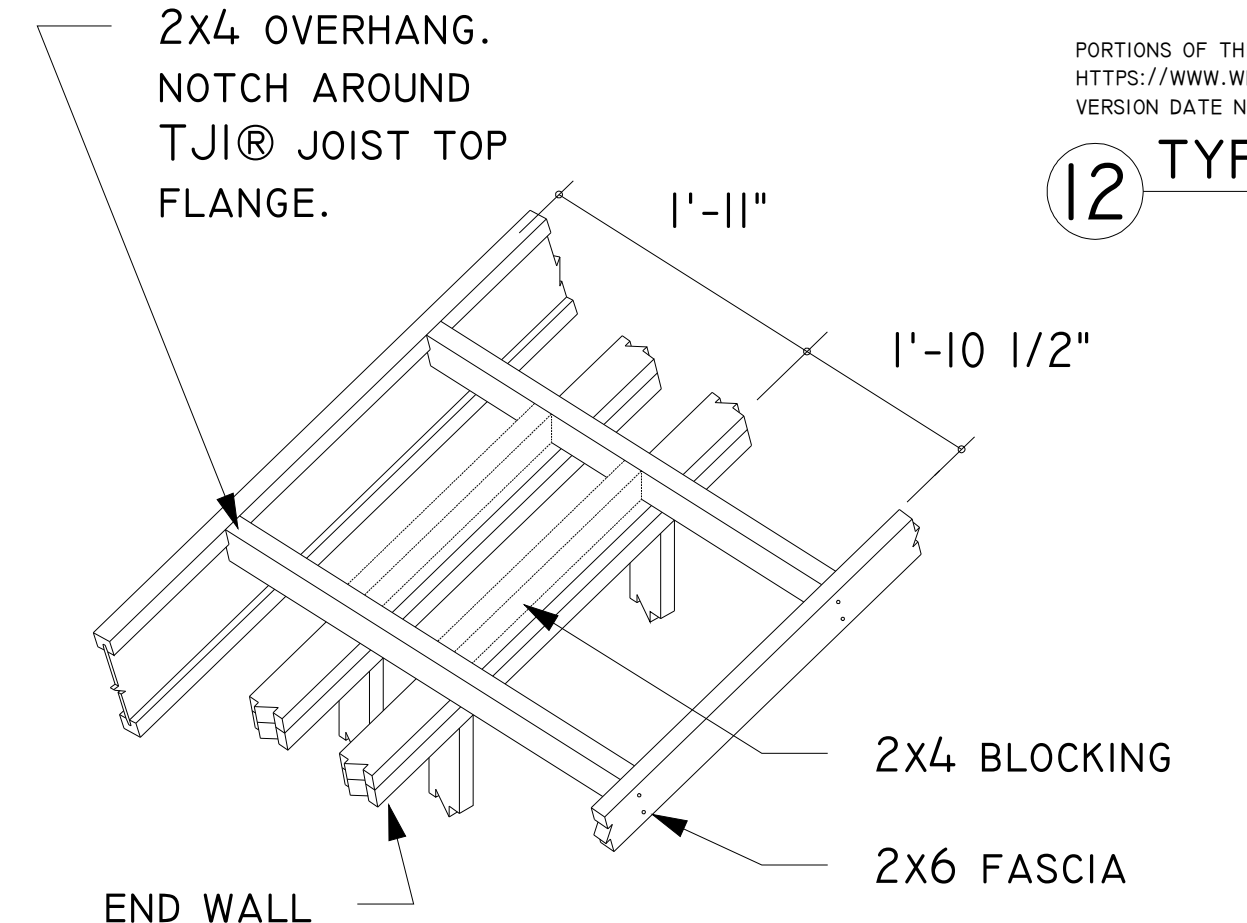
12 TYPICAL FLOOR JOIST OVER BEARING WALL  
1/2" = 1'-0"



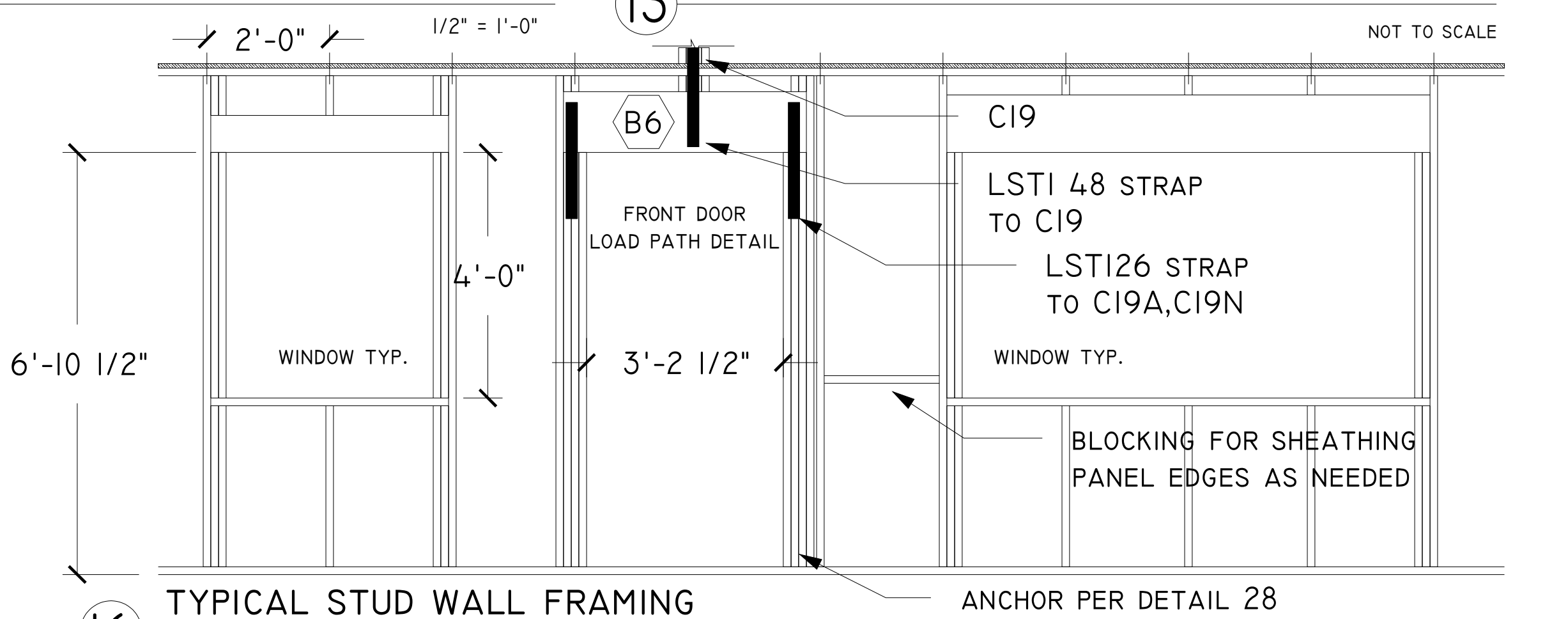
13 FACEMOUNT RIDGEBEAM ROOF TRUSS DETAIL  
NOT TO SCALE



14 TOP MOUNT DROP RIDGE BEAM / TJ DETAIL  
NOT TO SCALE



15 OUTRIGGER DETAIL  
NOT TO SCALE



16 TYPICAL STUD WALL FRAMING  
1/2" = 1'-0"

General Notes		
No.	Revision/Issue	Date

STRUCTURAL DETAIL VIEWS

GOLDENSTEIN RESIDENCE  
10685 E ROCKY HILL RD  
DEWEY, AZ 86327

Drawn By ADAM GOLDENSTEIN	Sheet SI.06
Date 3/22/2018	
Scale 1/4" = 1'-0"	

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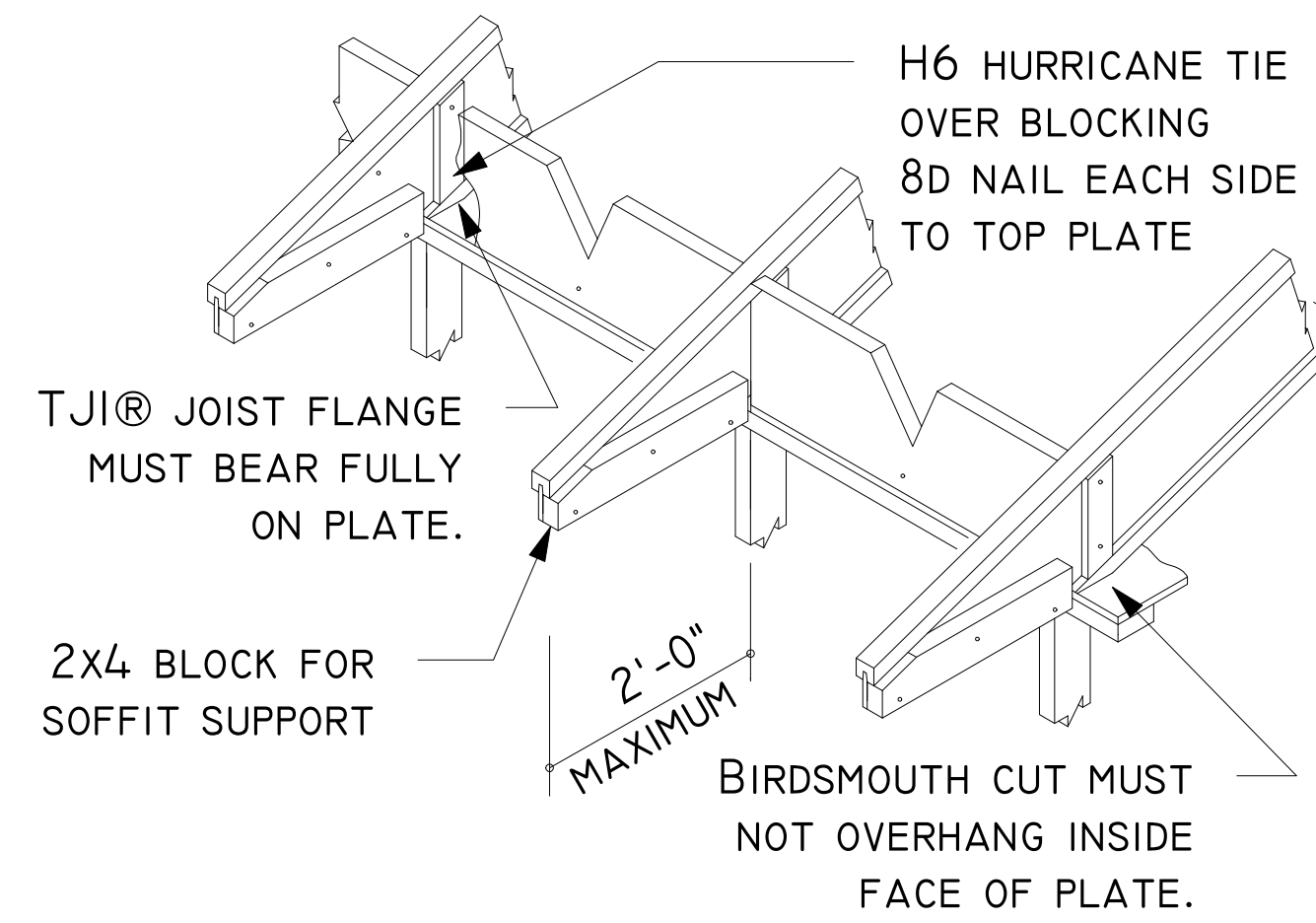
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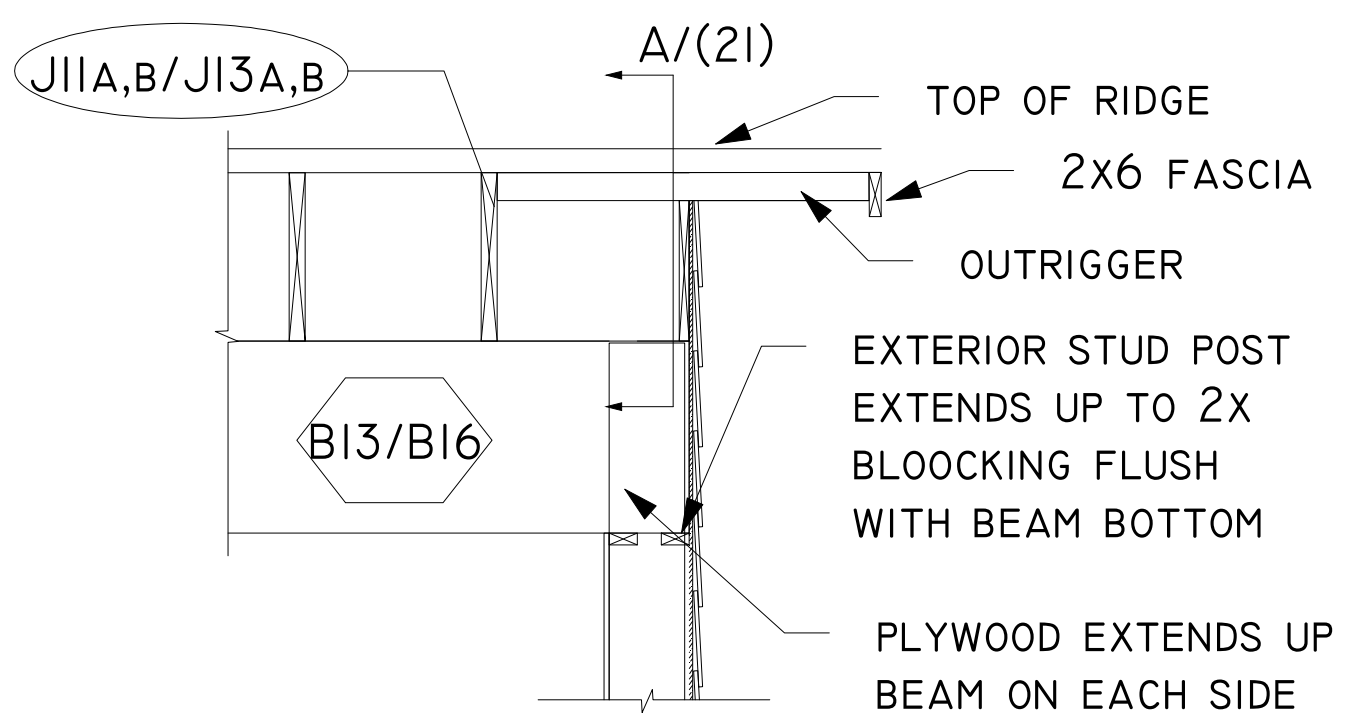
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Do I need blocking on each side?

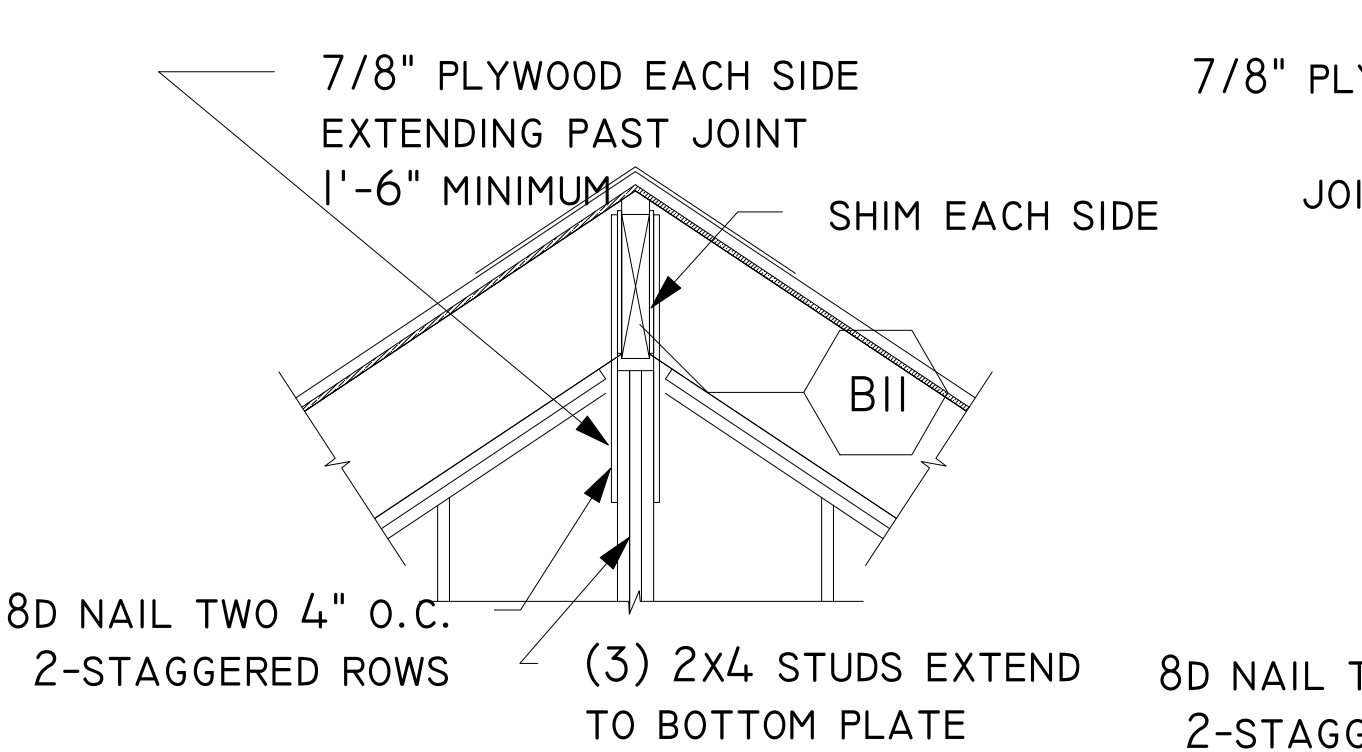




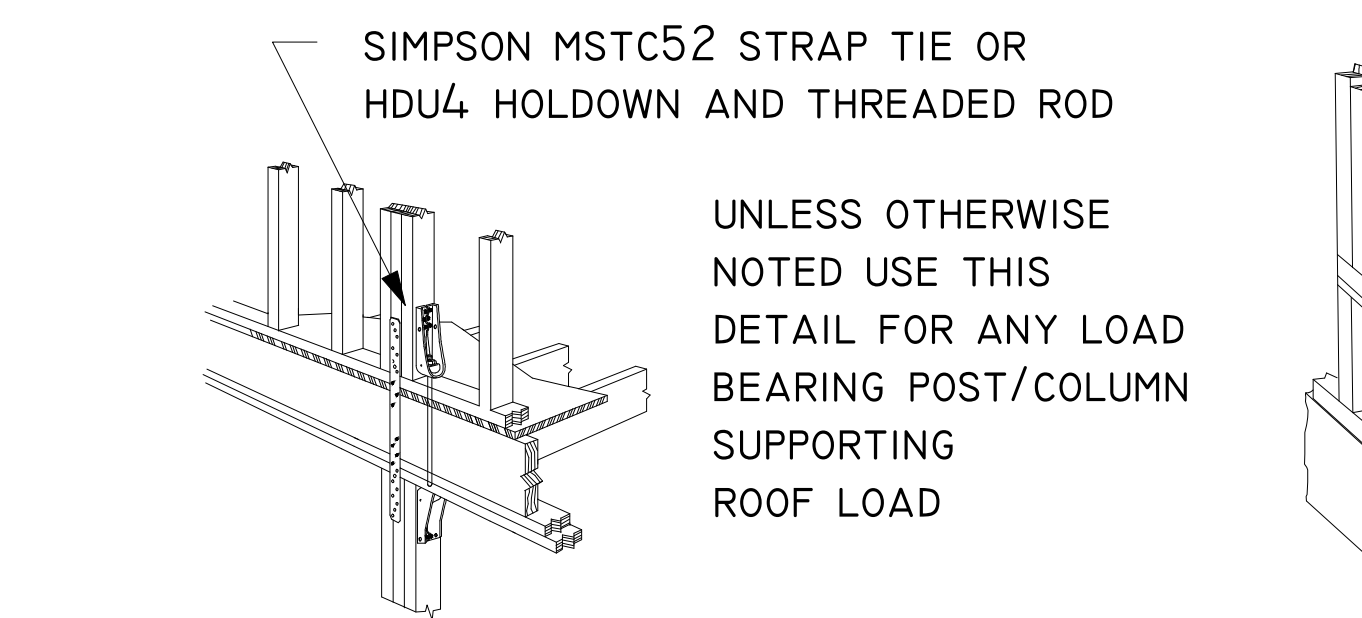
17 TYPICAL TJI END BEARING DETAIL  
NOT TO SCALE



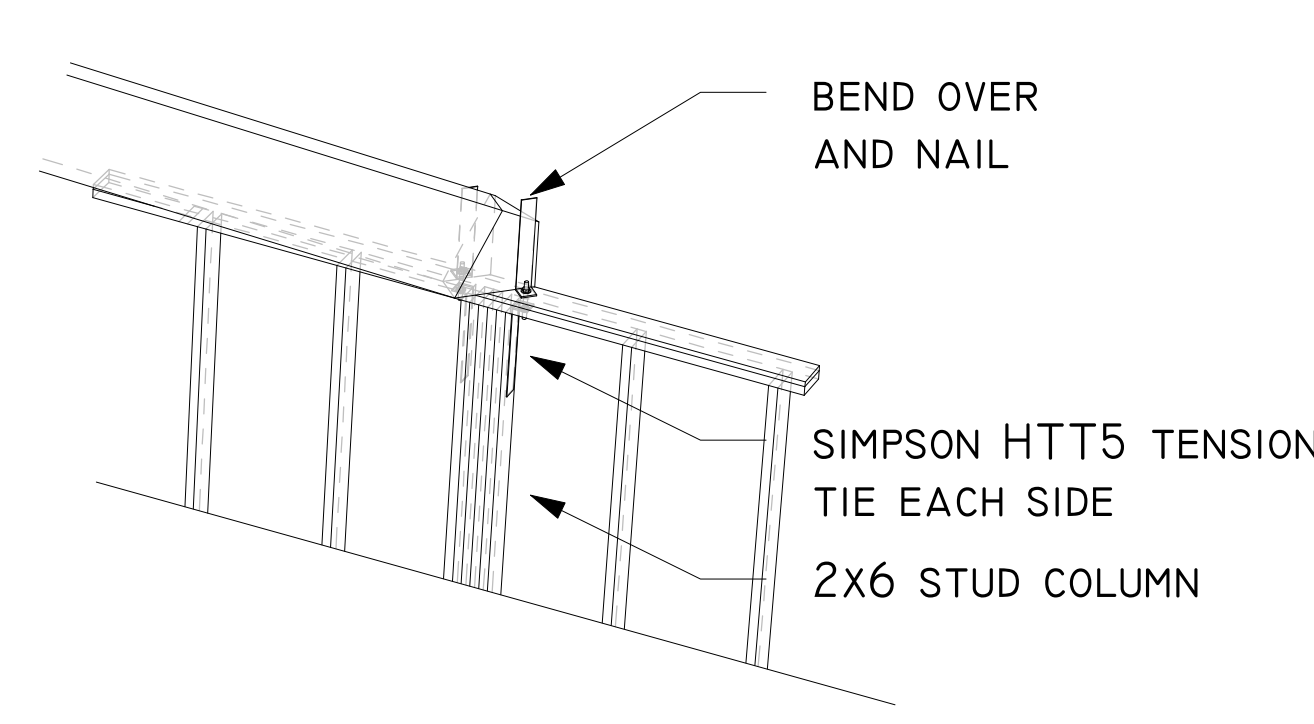
21 DROP BEAM AT EXTERIOR WALL  
1/2" = 1'-0"



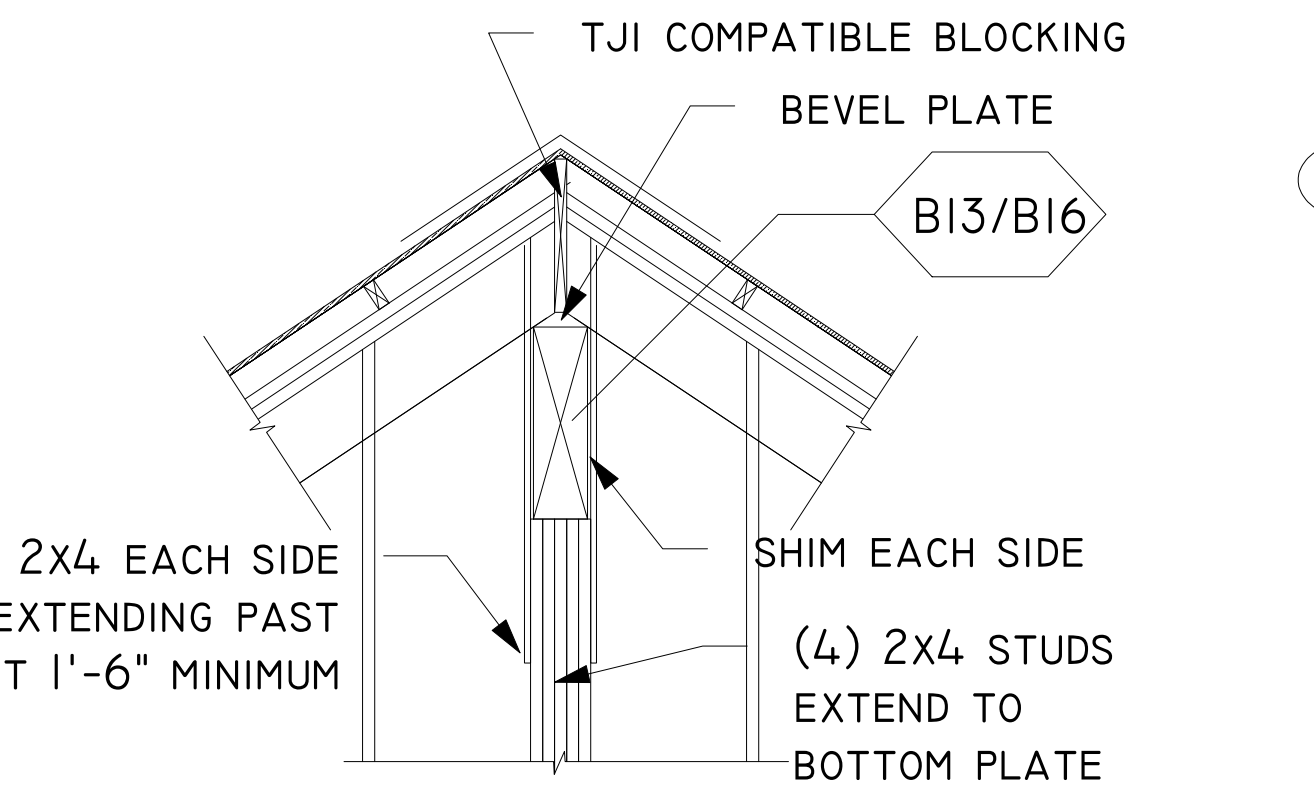
25 RIDGE BEAM / INTERIOR WALL  
1/2" = 1'-0"



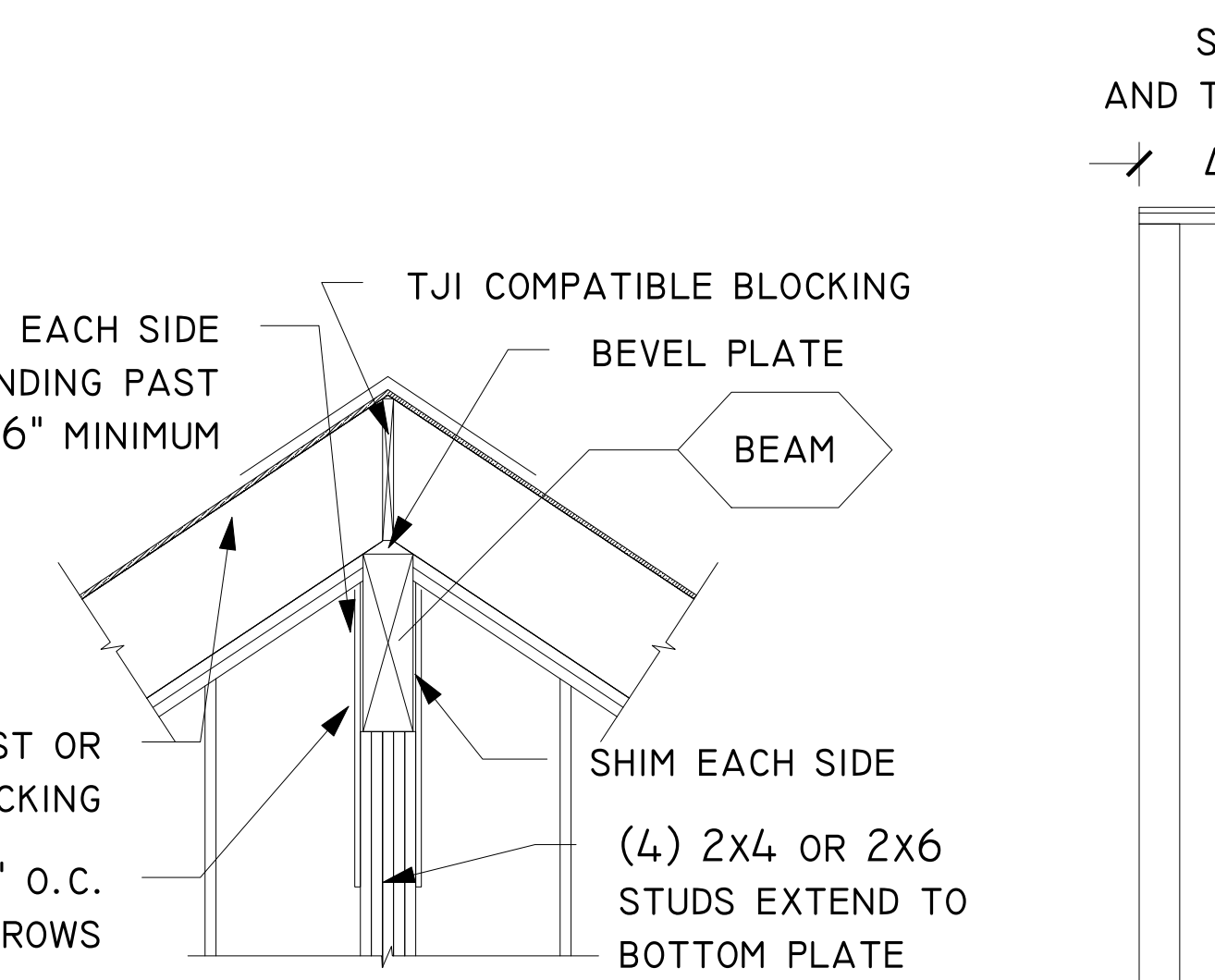
27 TYPICAL COLUMN BETWEEN FLOOR  
1/2" = 1'-0"



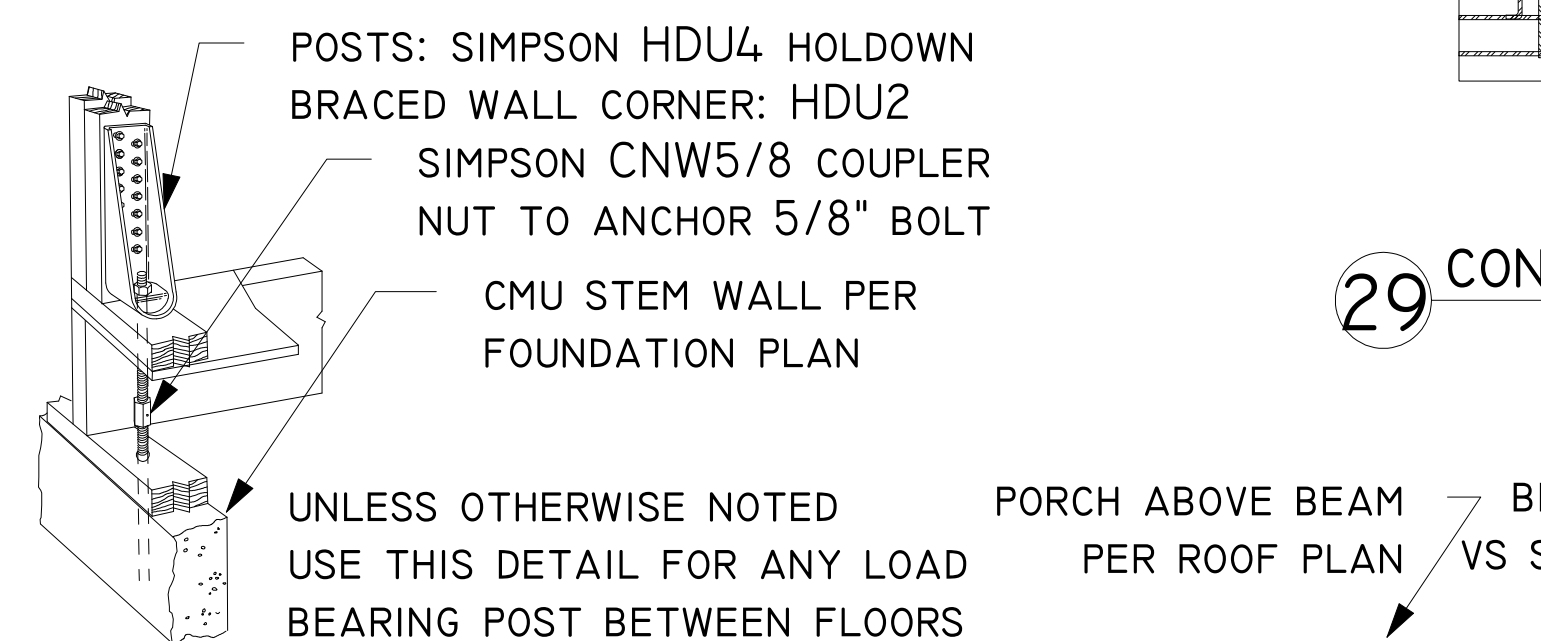
18 TYPICAL VALLEY BEAM CONNECTION  
1/2" = 1'-0"



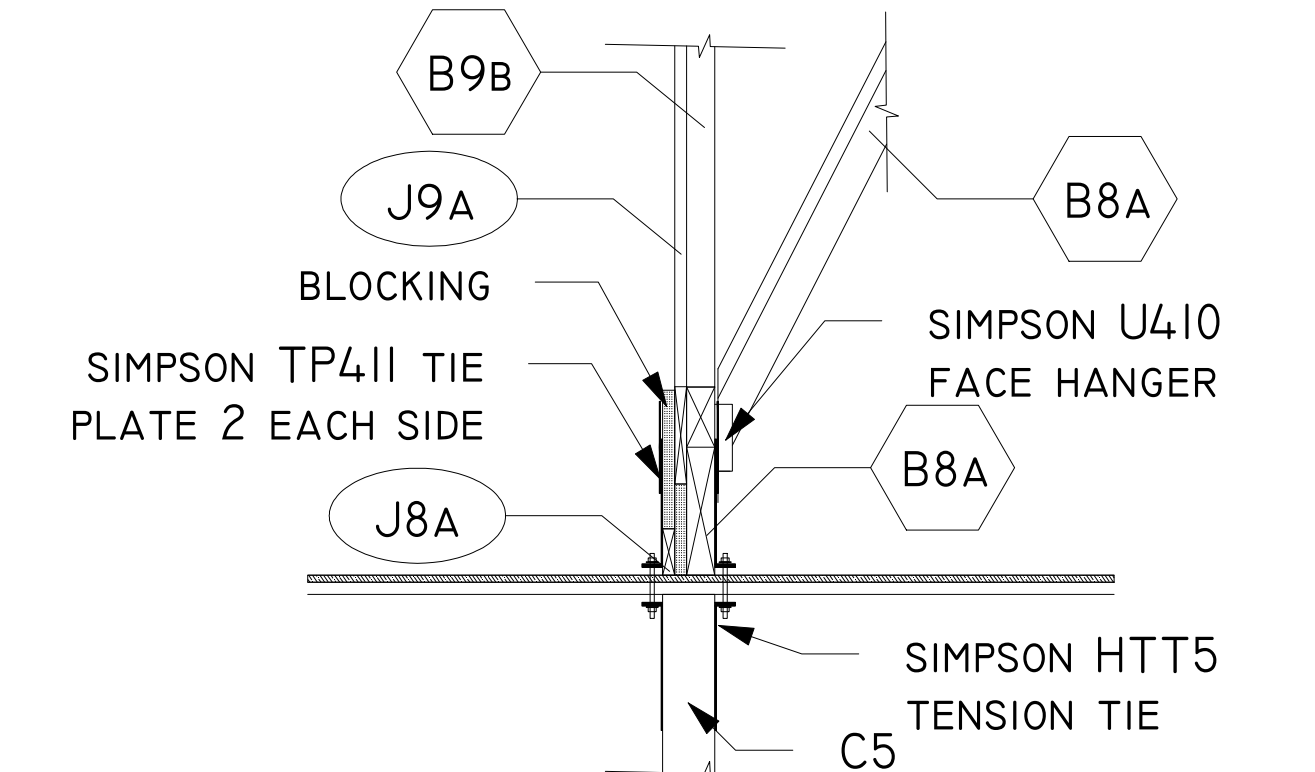
22 SECTION A: DROP BEAM AT EXTERIOR WALL  
1/2" = 1'-0"



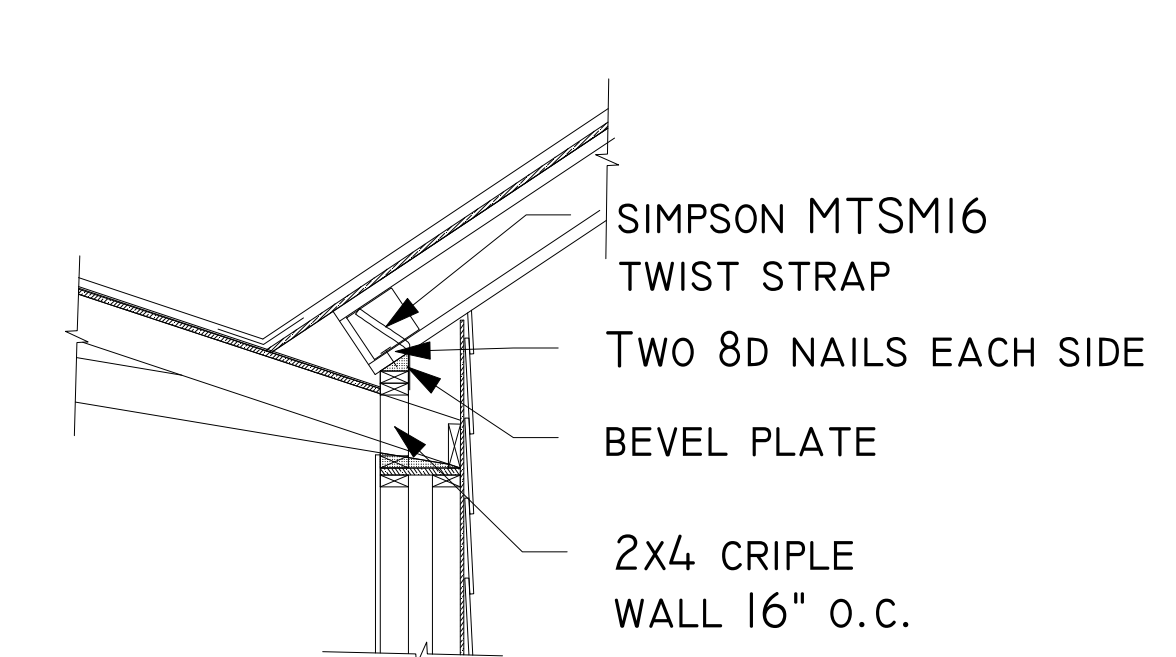
26 DROP BEAM AT INTERIOR WALL  
1/2" = 1'-0"



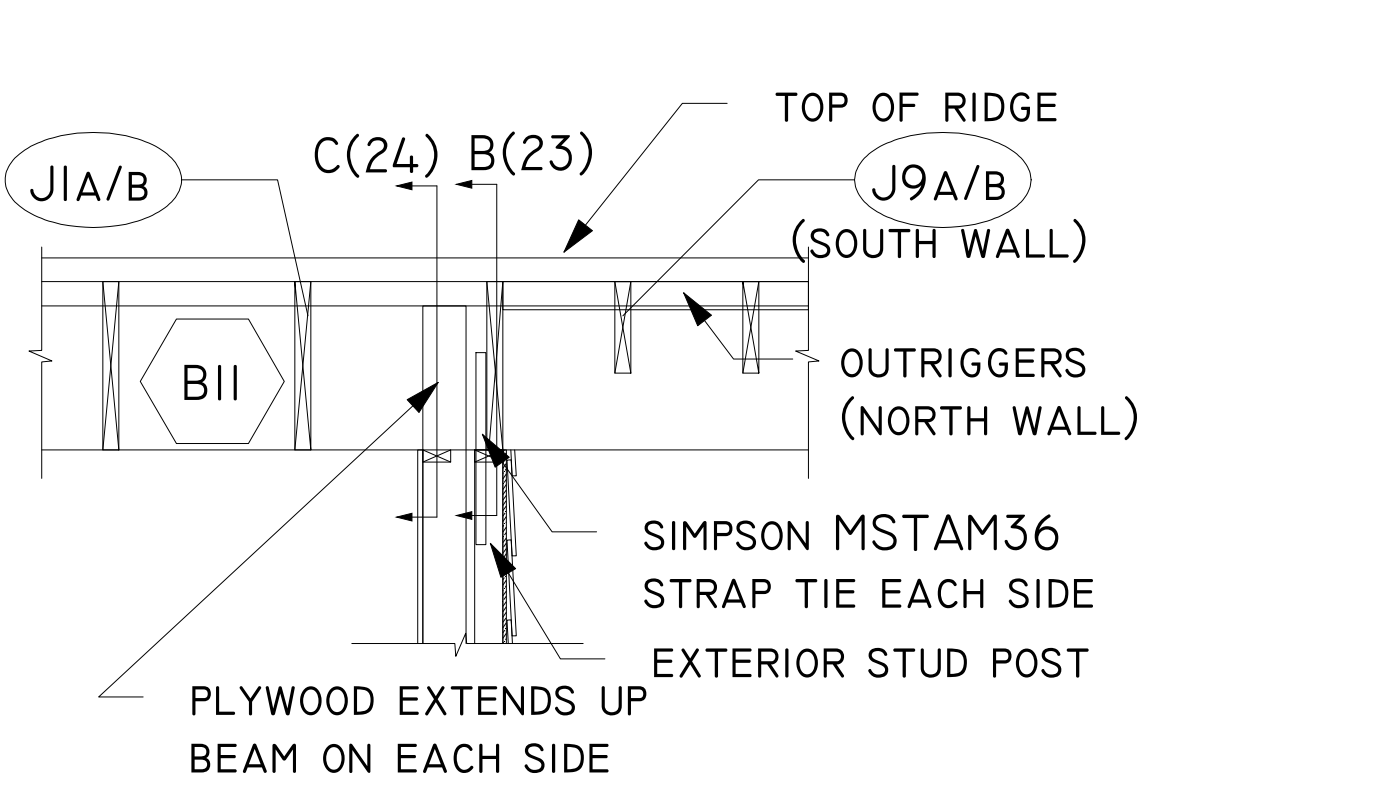
28 TYPICAL COLUMN AT STEM WALL  
1/2" = 1'-0"



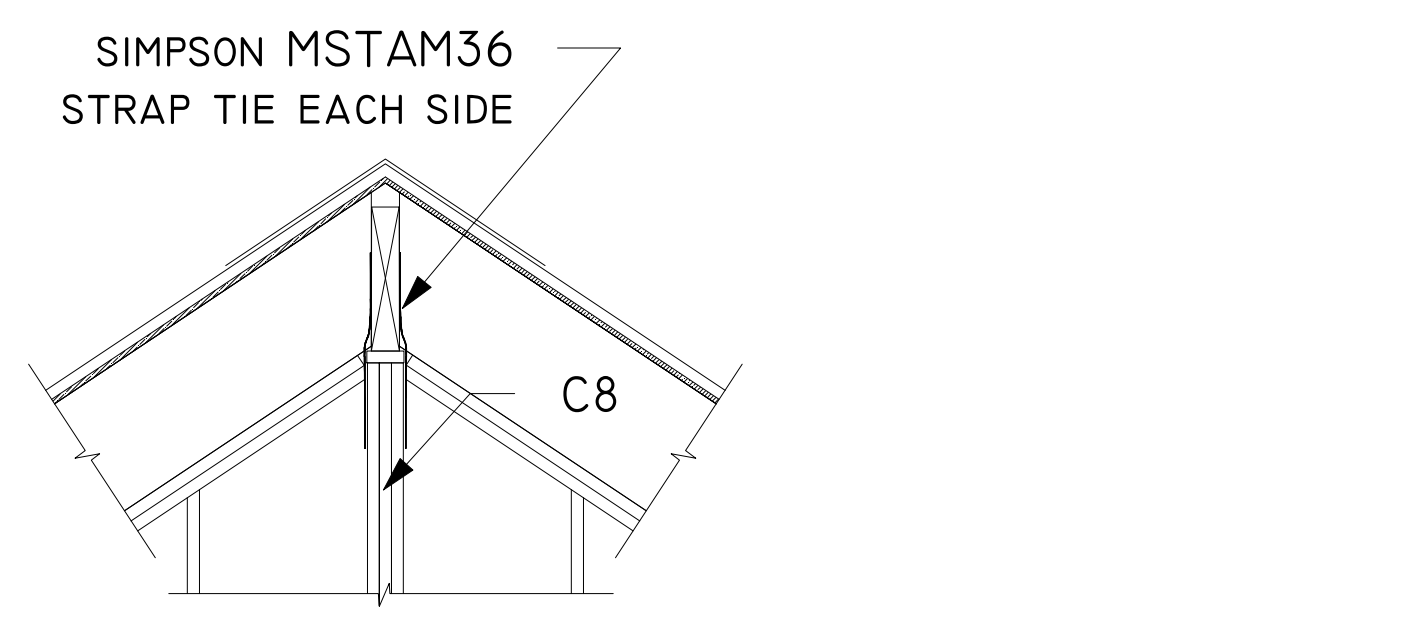
19 SECTION: PORCH TRUSS AND FASCIA CONNECTION  
1/2" = 1'-0"



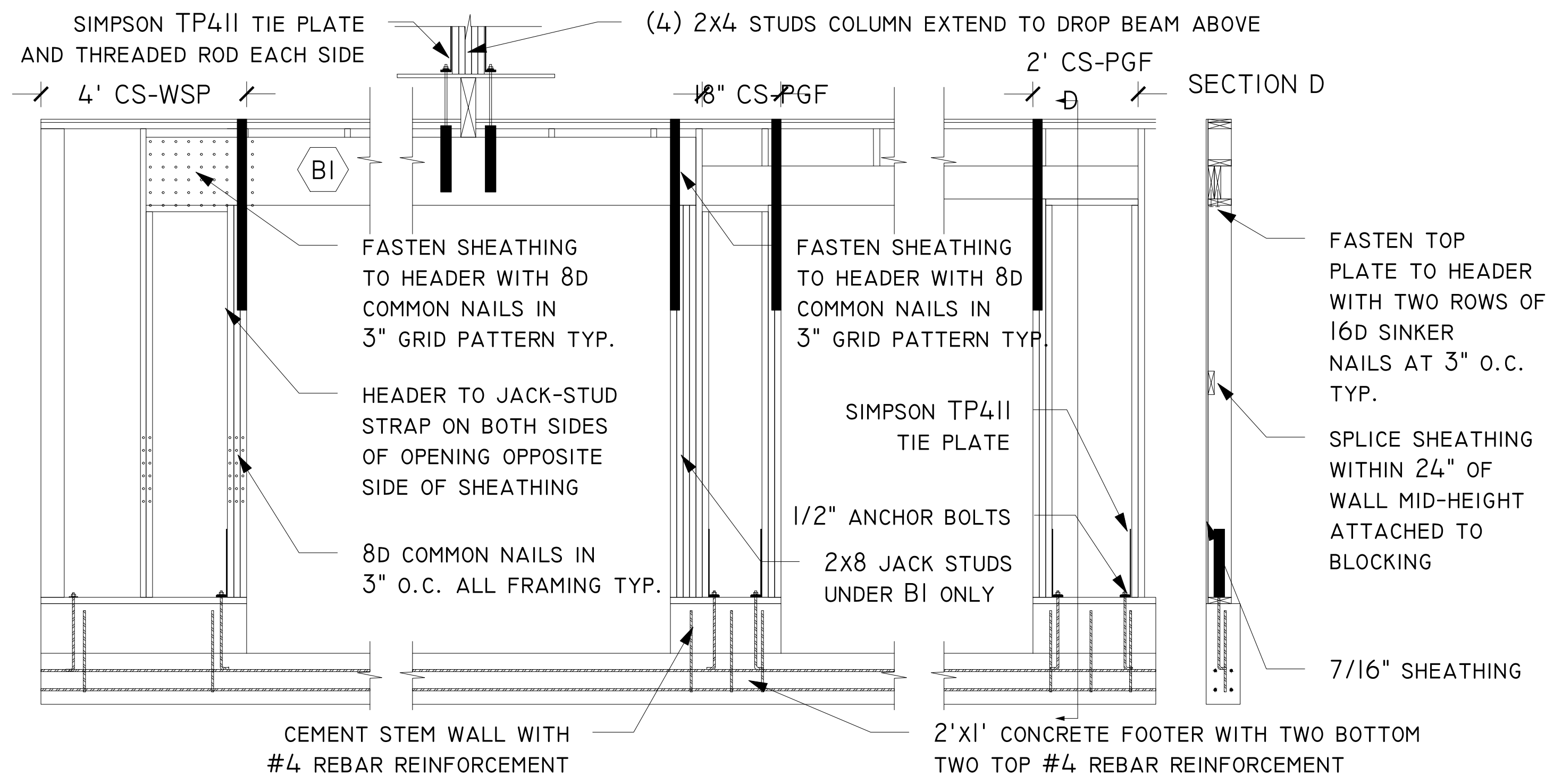
20 BACK PORCH JOIST ATTACHMENT BEHIND BEAM TRUSS  
1/2" = 1'-0"



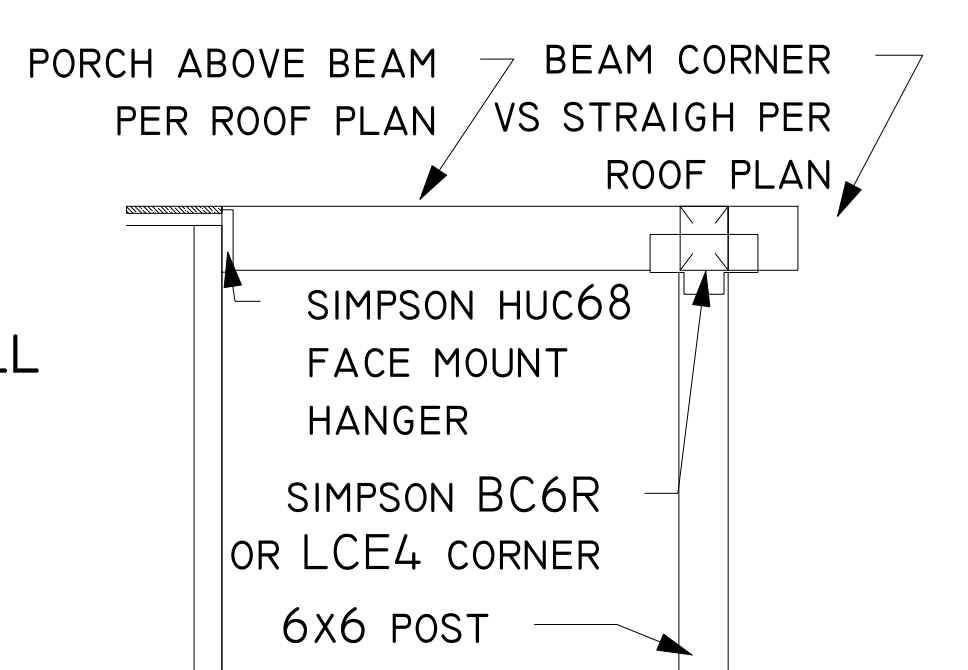
23 RIDGE BEAM AT WALL  
1/2" = 1'-0"



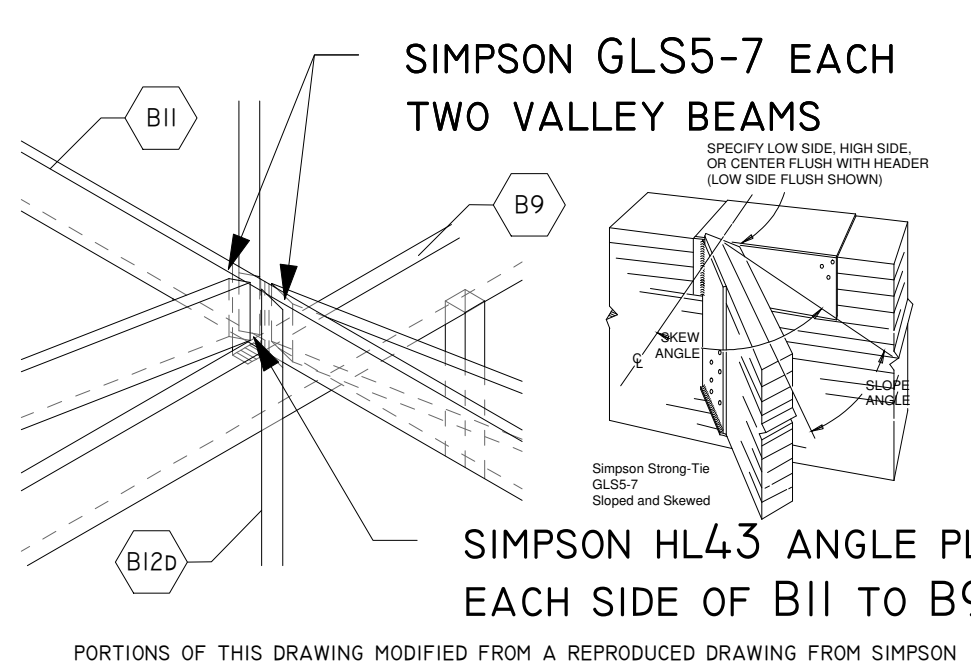
24 SECTION B: RIDGE BEAM / EXTERIOR WALL  
1/2" = 1'-0"



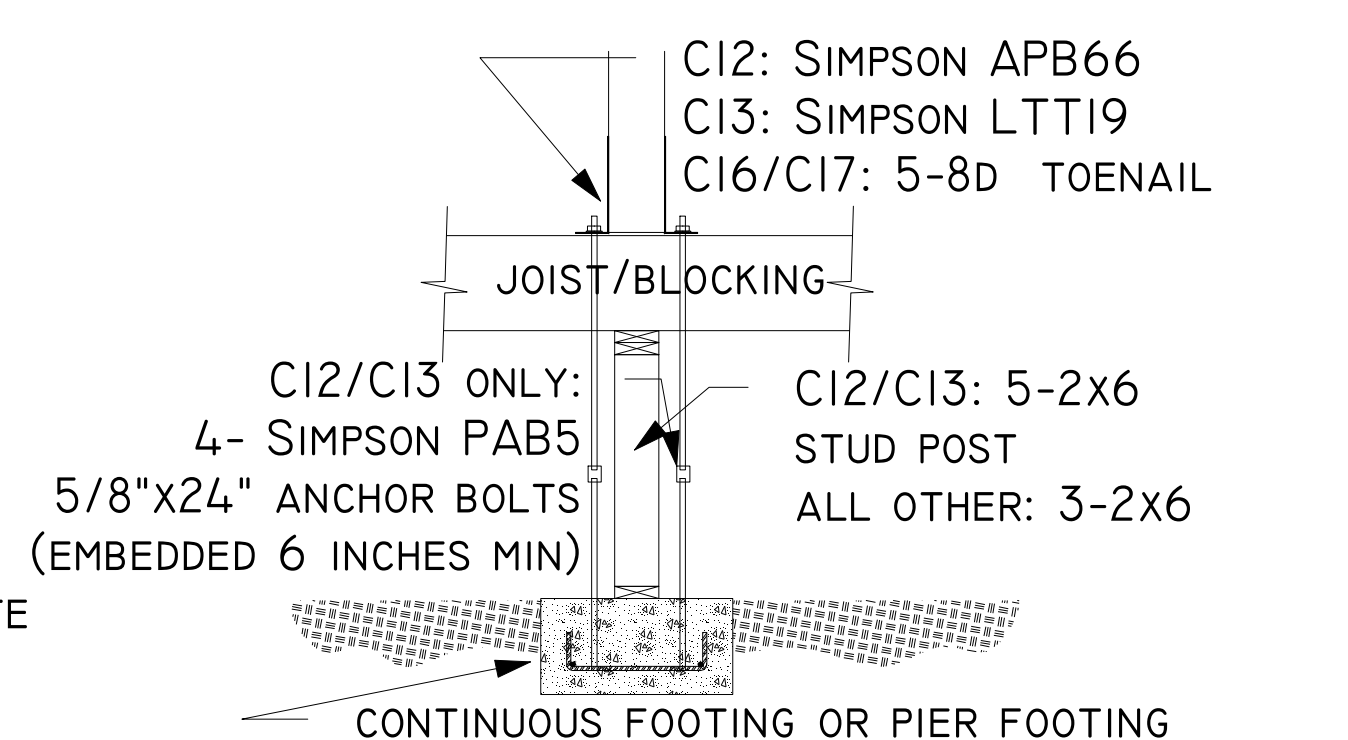
29 CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION AT GARAGE DOORS  
NOT TO SCALE



30 TYPICAL PORCH EXTENSION  
1/2" = 1'-0"



31 CROSS GABLE APEX  
NOT TO SCALE



32 COLUMN HOLD DOWN AT CRIPPLE WALL  
1/2" = 1'-0"

General Notes		
No.	Revision/Issue	Date

STRUCTURAL DETAIL VIEWS

GOLDENSTEIN RESIDENCE  
10685 E ROCKY HILL RD  
DEWEY, AZ 86327

Drawn By ADAM GOLDENSTEIN	Sheet SI.07
Date 3/22/2018	
Scale 1/4" = 1'-0"	

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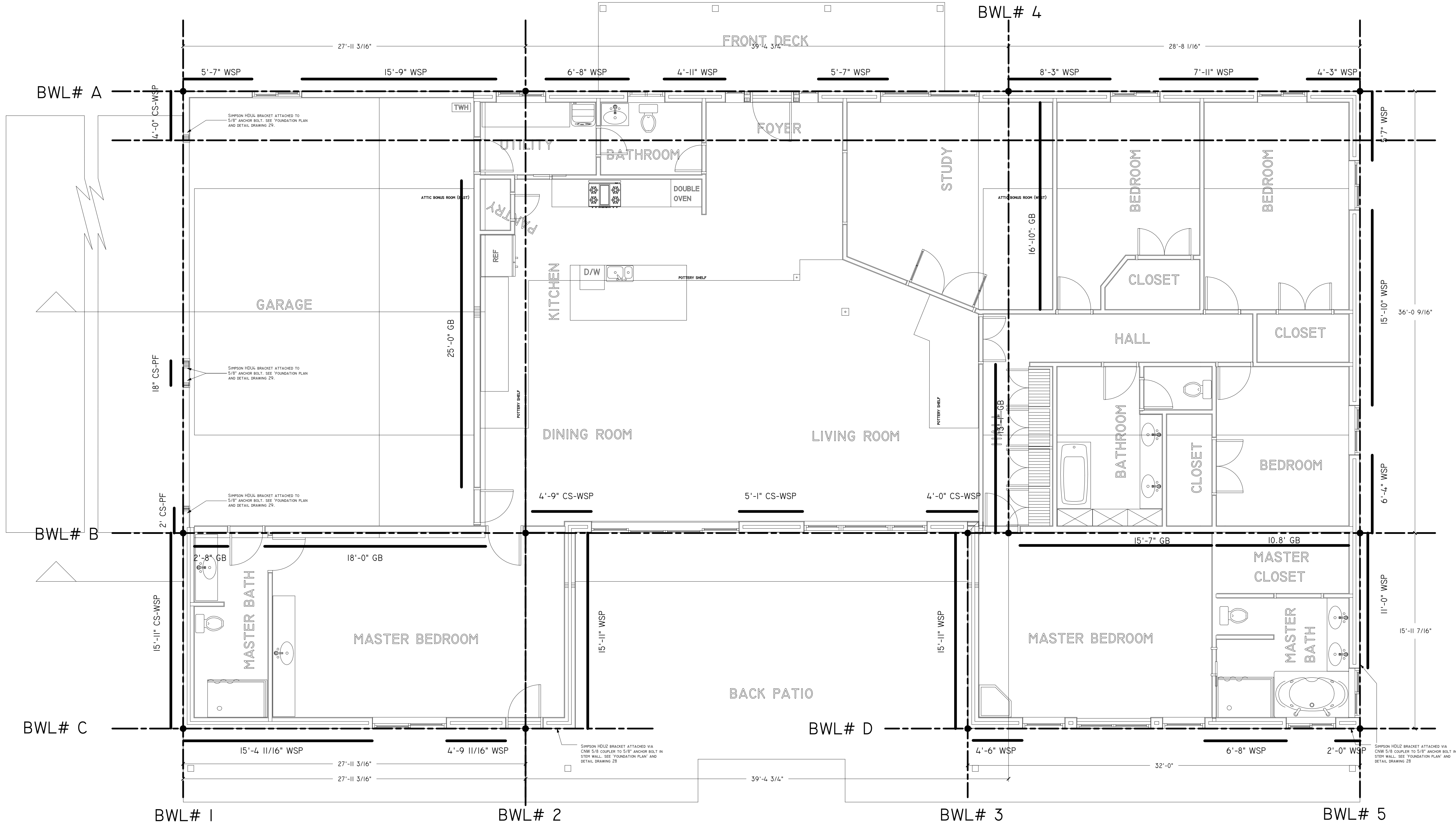
PORTIONS OF THIS DRAWING MODIFIED FROM A REPRODUCED DRAWING FROM SIMPSON STRONG-TIE ON 2/5/18 FROM [HTTPS://WWW2.STRONGTIE.COM/DRAWINGS/INDEX.ASP](https://www2.strongtie.com/drawings/index.asp)

**BRACED WALL NOTES**

I. SEE 'FOUNDATION PLAN' AND COLUMN SCHEDULE ON 'FLOOR FRAMING PLAN' FOR FOUNDATION ATTACHMENTS

**BRACED WALL CALCULATIONS (PER R602.10.3 WITH APPLICABLE ADJUSTMENTS)**

WALL #	CEILING HEIGHT	TYPE(S) OF BRACED WALL PANEL	DISTANCE BETWEEN BRACED WALLS	REQUIRED TOTAL LENGTH OF BRACING	PROVIDED TOTAL LENGTH OF BRACING	NOTES
A 1-2	9'	WSP	28'-5"	11.2'	21'-4"	
A 2-4	8'	WSP	38'-7"	15.3'	17'-4"	
A 4-5	8'	WSP	28'-11"	11.2'	20'-5"	
B 1-2	8'	GB	28'-5"	19.3'	20'-8"	
B 2-4	8'	WSP	38'-10"	12.2'	14'-0"	
B 4-5	8'	GB	28'-11"	19.3'	26'-5"	
C 1-2	8'	WSP	28'-5"	11.2'	20'-2"	
D 3-5	8'	WSP	31'-2"	12'	13'-2"	
1 A-B	8'	CS-PF	36'-1"	15.3'	17.9'	SEE DRAWING DETAIL 28
1 B-C	8'	WSP	15'-11"	8.1'	15'-11"	
2 A-B	9'	GB	36'-1"	21.8'	25'-0"	
2 B-C	8'	WSP	15'-11"	8.1'	15'-11"	
3 B-D	8'	WSP	15'-11"	8.1'	15'-11"	
4 A-B	8'	GB	36'-1"	25.4'	30'-7"	
5 A-B	8'	WSP	36'-1"	15.3'	22'-3"	
5 B-C	8'	WSP	15'-11"	8.1'	11'-0"	



General Notes

No.	Revision/Issue	Date

Sheet Title  
**BRACED WALL LINE PLAN**

Project Name and Address  
**GOLDENSTEIN RESIDENCE**  
 10685 E ROCKY HILL RD  
 DEWEY, AZ 86327

Drawn By  
 ADAM GOLDENSTEIN

Date  
 3/22/2018

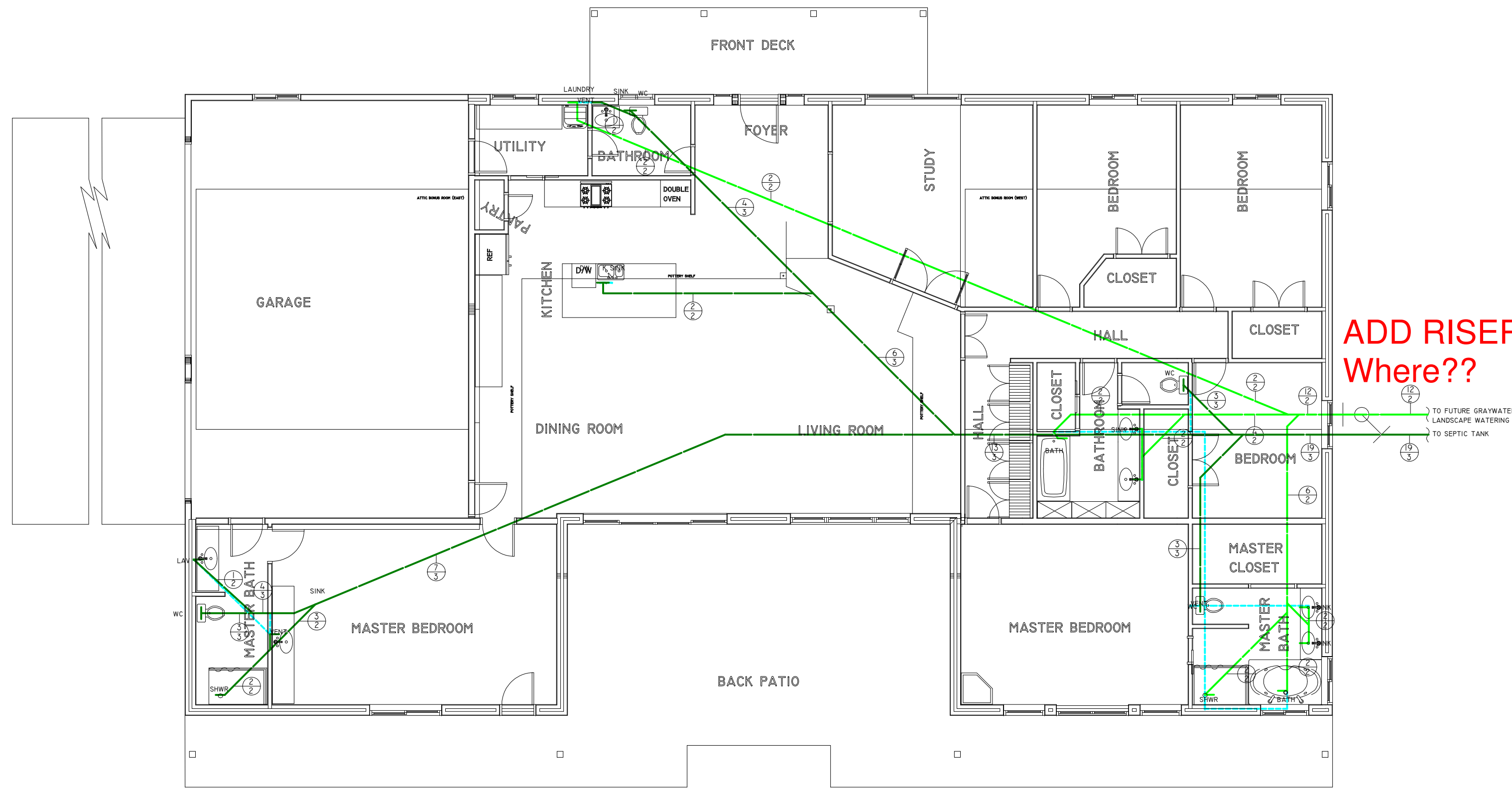
Scale  
 1/4" = 1'-0"

Sheet  
**SI.08**

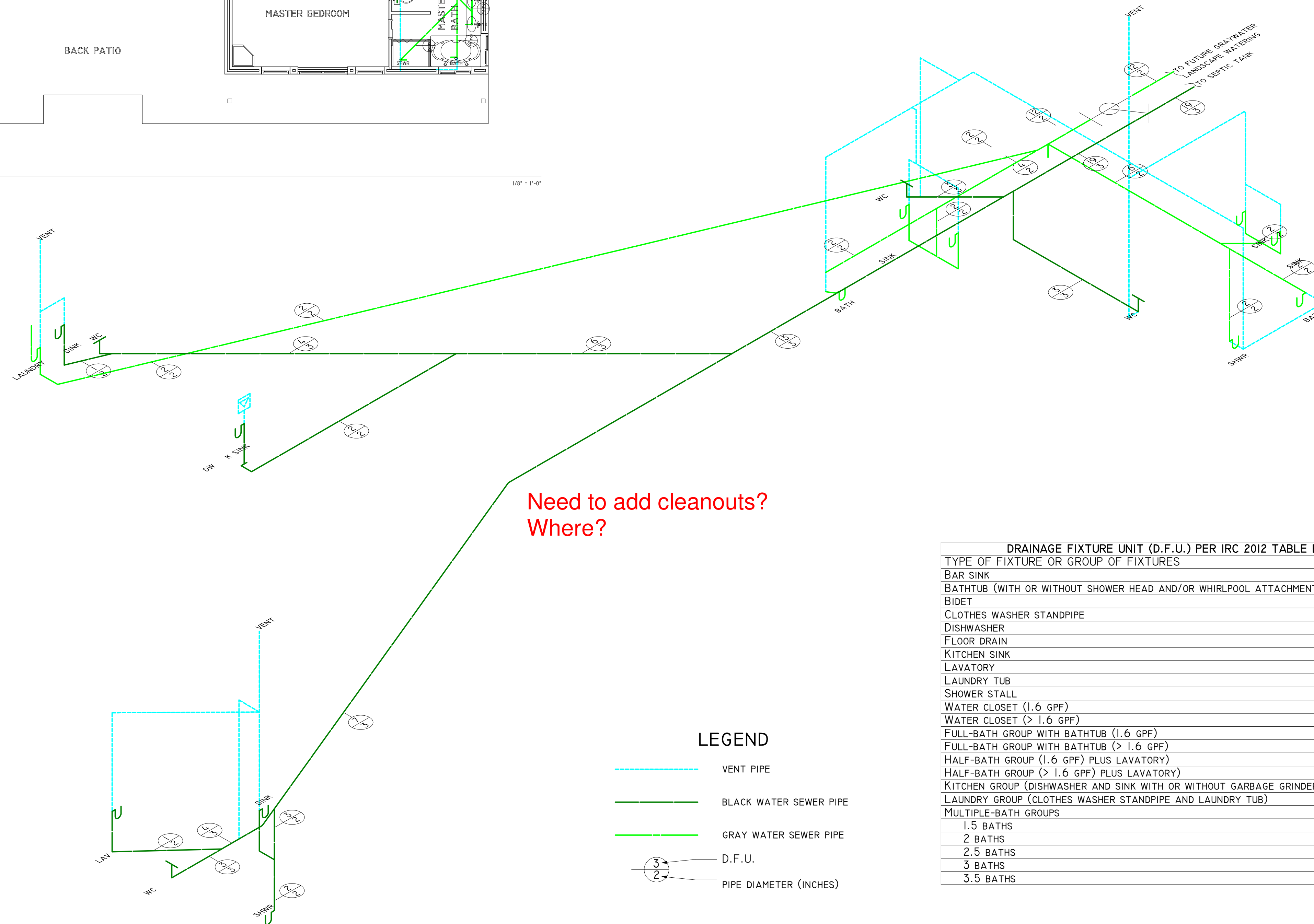
**BRACED WALL PLAN**

1/4" = 1'-0"





ADD RISER?  
Where??



Need to add cleanouts?  
Where?

- LEGEND**
- VENT PIPE
  - BLACK WATER SEWER PIPE
  - GRAY WATER SEWER PIPE
  - D.F.U.
  - PIPE DIAMETER (INCHES)

DRAINAGE FIXTURE UNIT (D.F.U.) PER IRC 2012 TABLE P3004.1	
TYPE OF FIXTURE OR GROUP OF FIXTURES	(D.F.U)
BAR SINK	1
BATHTUB (WITH OR WITHOUT SHOWER HEAD AND/OR WHIRLPOOL ATTACHMENTS)	2
BIDET	1
CLOTHES WASHER STANDPIPE	2
DISHWASHER	2
FLOOR DRAIN	0
KITCHEN SINK	2
LAVATORY	1
LAUNDRY TUB	2
SHOWER STALL	2
WATER CLOSET (1.6 GPF)	3
WATER CLOSET (> 1.6 GPF)	4
FULL-BATH GROUP WITH BATHTUB (1.6 GPF)	5
FULL-BATH GROUP WITH BATHTUB (> 1.6 GPF)	6
HALF-BATH GROUP (1.6 GPF) PLUS LAVATORY	4
HALF-BATH GROUP (> 1.6 GPF) PLUS LAVATORY	5
KITCHEN GROUP (DISHWASHER AND SINK WITH OR WITHOUT GARBAGE GRINDER)	2
LAUNDRY GROUP (CLOTHES WASHER STANDPIPE AND LAUNDRY TUB)	3
MULTIPLE-BATH GROUPS	
1.5 BATHS	7
2 BATHS	8
2.5 BATHS	9
3 BATHS	10
3.5 BATHS	11

# SEWER LINE PLAN

1/4" = 1'-0"

General Notes

No.	Revision/Issue	Date

## SEWER LINE PLAN


**GOLDENSTEIN RESIDENCE**  
10685 E ROCKY HILL RD  
DEWEY, AZ 86327

Drawn By ADAM GOLDENSTEIN	Sheet PI
Date 3/22/2018	
Scale 1/4" = 1'-0"	

**NOTES**

1. ALL WATER LINE MAIN RUNS USE 3/4" PEX.
2. ALL RUNS FROM MANIFOLDS TO FIXTURES US 1/2" PEX.
3. ALL HOT WATER LINES SHALL BE INSULATED WITH R2 MINIMUM.

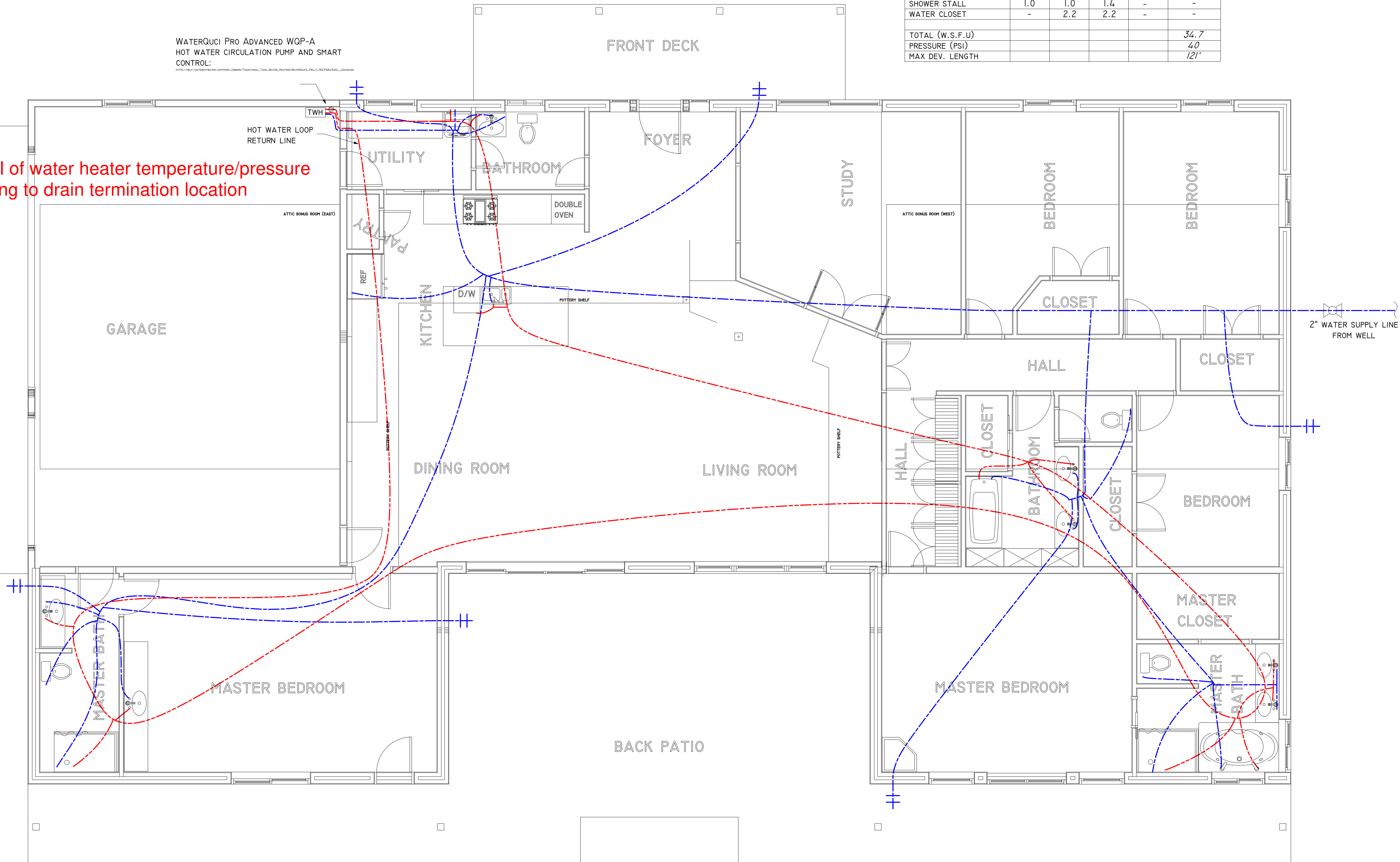
**LEGEND**

- COLD WATER PIPE
- HOT WATER PIPE
- TWH TANKLESS WATER HEATER
-  HOT WATER CIRCULATION PUMP AND SMART CONTROL

WATER SUPPLY FIXTURE UNIT TABLE PER IRC2012 TABLE 2903.6					
TYPE OF FIXTURE	WATER SUPPLY FIXTURE UNIT VALUE (W.S.F.U)			#	TOTAL
	HOT	COLD	COMBINED		
BATHTUB	1.0	1.0	1.4	-	-
CLOTHES WASHER	1.0	1.0	1.4	1.0	1.4
DISHWASHER	1.4	-	1.4	-	-
FULL-BATH GROUP	1.5	2.7	3.6	4.0	14.4
HALF-BATH GROUP	0.5	2.5	2.6	-	-
HOSE BIBB	-	2.5	2.5	5.0	12.5
KITCHEN GROUP	1.9	1.0	2.5	1.0	2.5
KITCHEN SINK	1.0	1.0	1.4	1.0	1.4
LAUNDRY GROUP	1.8	1.8	2.5	1.0	2.5
LAUNDRY TUB	1.0	1.0	1.4	-	-
LAVATORY	0.5	0.5	0.7	-	-
SHOWER STALL	1.0	1.0	1.4	-	-
WATER CLOSET	-	2.2	2.2	-	-
<b>TOTAL (W.S.F.U)</b>					<b>34.7</b>
<b>PRESSURE (PSI)</b>					<b>40</b>
<b>MAX DEV. LENGTH</b>					<b>121'</b>

WATERQUCI Pro ADVANCED WQP-A  
HOT WATER CIRCULATION PUMP AND SMART CONTROL

add detail of water heater temperature/pressure relief piping to drain termination location



General Notes

No.	Revision/Issue	Date

WATER LINE PLAN

**GOLDENSTEIN RESIDENCE**  
 10685 E ROCKY HILL RD  
 DEWEY, AZ 86327

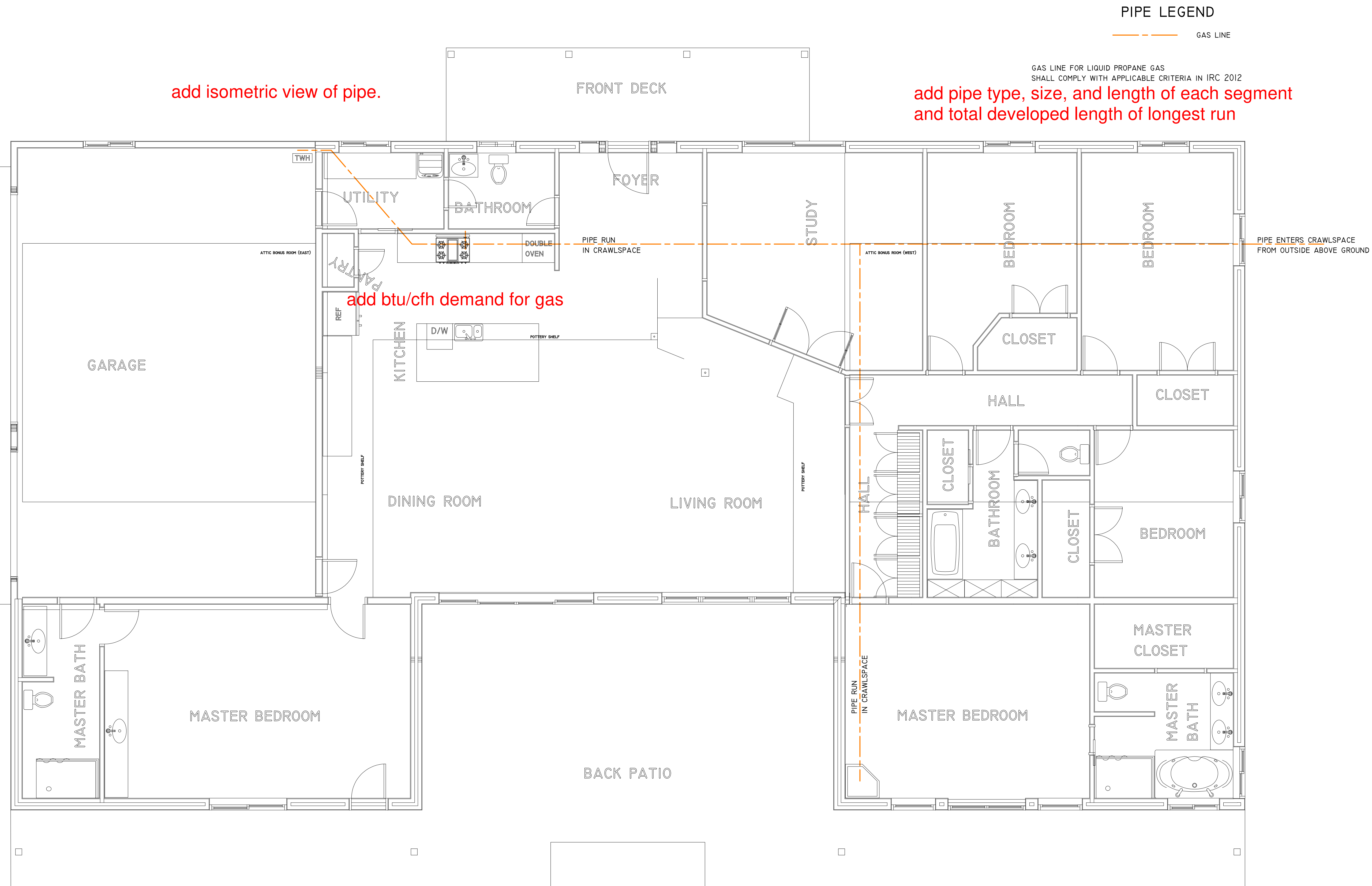
**WATER LINE PLAN**

1/4" = 1'-0"

Drawn By  
 ADAM GOLDENSTEIN  
 Date  
 3/22/2018  
 Scale  
 1/4"=1'-0"

Sheet  
**P2**





**PIPE LEGEND**

--- GAS LINE

GAS LINE FOR LIQUID PROPANE GAS  
SHALL COMPLY WITH APPLICABLE CRITERIA IN IRC 2012

add isometric view of pipe.

add pipe type, size, and length of each segment  
and total developed length of longest run

add btu/cfh demand for gas

General Notes		
No.	Revision/Issue	Date

Sheet Title  
**GAS LINE PLAN**

Project Name and Address  
**GOLDENSTEIN RESIDENCE**  
10685 E ROCKY HILL RD  
DEWEY, AZ 86327

Drawn By ADAM GOLDENSTEIN	Sheet <b>P3</b>
Date 3/22/2018	
Scale 1/4" = 1'-0"	

**GAS LINE PLAN**

1/4" = 1'-0"

**NOTES**

1. AIR DUCTING MAY BE PLASTIC OR METAL, RIGID OR FLEXIBLE MATERIAL PROVIDED IT IS INTENDED TO BE USED FOR AIR DUCTING.
2. ALL DUCTING IS RUN IN CONDITIONED SPACE OF THE BUILDING AND THEREFORE DOES NOT REQUIRE INSULATION.
3. ALL HYDRONIC PIPING IS RUN INSIDE THE BUILDING IS RUN IN CONDITIONED SPACE AND THEREFORE DOES NOT REQUIRE INSULATION. HYDRONIC PIPING OUTSIDE SHALL HAVE FREEZE PROTECTION AND A MINIMUM OF R2 WEATHERPROOF INSULATION.
4. ALL FAN COILS ARE WALL MOUNTED AT THE FLOOR.
5. DOUBLE OVEN IS ELECTRIC, RANGE IS PROPANE GAS.

**PIPE/DUCTING LEGEND**

- HYDRONIC SUPPLY LINE
- HYDRONIC RETURN LINE
- HRV FRESH SUPPLY AIR
- EXHAUST AIR (HRV OR BLOWER)

**MECHANICAL SYMBOLS LEGEND**

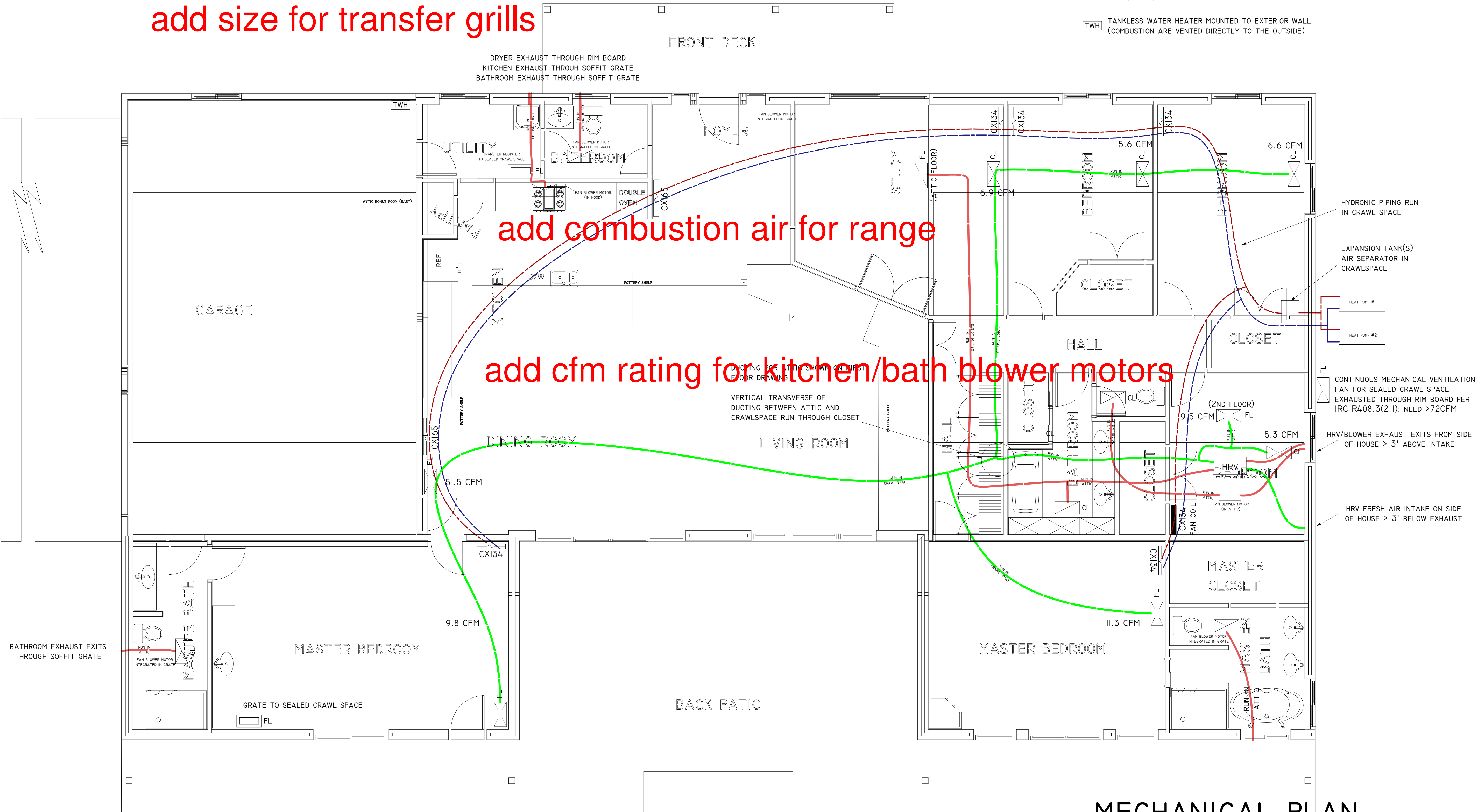
- FL CL SUPPLY DUCT (FLOOR & CEILING)
- FL CL EXHAUST DUCT (FLOOR & CEILING)
- FL CL RETURN DUCT (FLOOR & CEILING)
- FL CL TRANSFER DUCT (FLOOR & CEILING)
- TWH TANKLESS WATER HEATER MOUNTED TO EXTERIOR WALL (COMBUSTION ARE VENTED DIRECTLY TO THE OUTSIDE)

add condensation line  
for fan coils

add size for transfer grills

add combustion air for range

add cfm rating for kitchen/bath blower motors



General Notes

No.	Revision/Issue	Date

MECHANICAL PLAN

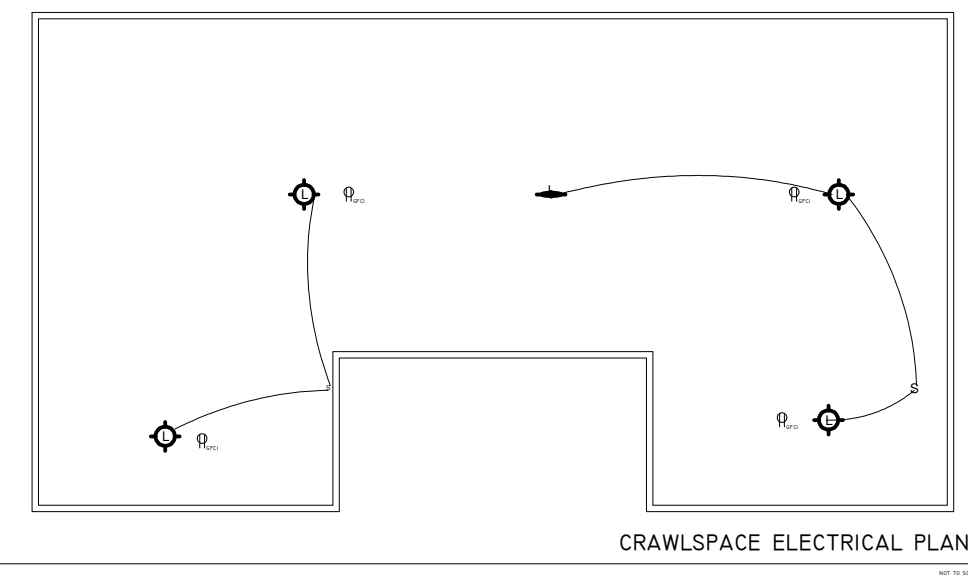
GOLDENSTEIN RESIDENCE  
10685 E ROCKY HILL RD  
DEWEY, AZ 86327

MECHANICAL PLAN

Drawn By ADAM GOLDENSTEIN	Sheet
Date 3/22/2018	MI
Scale 1/4" = 1'-0"	

1/4" = 1'-0"





CRAWLSPACE ELECTRICAL PLAN

- ELECTRICAL NOTES**
- UNLESS OTHERWISE NOTED ALL OUTLETS ARE 110V AND 15A.
  - HVAC FAN COIL UNITS: CX165: 110V 8A, 1.6 GPM, 1.89 PSI; CX134: 110V 6A, 1.2 GPM, 1.57 PSI.
  - ELECTRICAL DESIGN AND INSTALLATION SHALL COMPLY WITH IRC 2012 NOT LIMITED TO THE SELECT PORTIONS REPRODUCED HERE FOR CONVENIENCE:
    - RECEPTACLES SPACING SHALL SUCH THAT NO POINT ALONG THE FLOOR LINE EXCEEDS 6' FOR ANY WALL SPACE 2' OR MORE PER IRC 2012 E3901.2
    - RECEPTACLES 65" IN HEIGHT OR LESS SHALL BE TAMPER RESISTANT PER IRC 2012 E4002.14
    - CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM IN THE DWELLING UNITS WITHIN WHICH FUEL-FIRED APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES.
    - FACE PLATES SHALL BE GROUNDED PER IRC 2012 E4001.11.1.
    - ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION SHALL BE USED FOR ALL BRANCH CIRCUITS THAT SUPPLY 120-VOLT OUTLETS.
    - 120-VOLT, SINGLE PHASE, 15- AND 20 -AMP OUTLETS INSTALLED PER IRC 2012 E3902.12.
  - SMOKE DETECTORS SHALL MEET REQUIREMENTS OF R314.1 WHICH INCLUDE BEING UL217 LISTED AND INTERCONNECTED.
  - CARBON MONOXIDE DETECTORS SHALL MEET REQUIREMENTS OF R314.1 WHICH INCLUDE BEING UL2075 LISTED.

**ELECTRICAL SYMBOLS LEGEND**

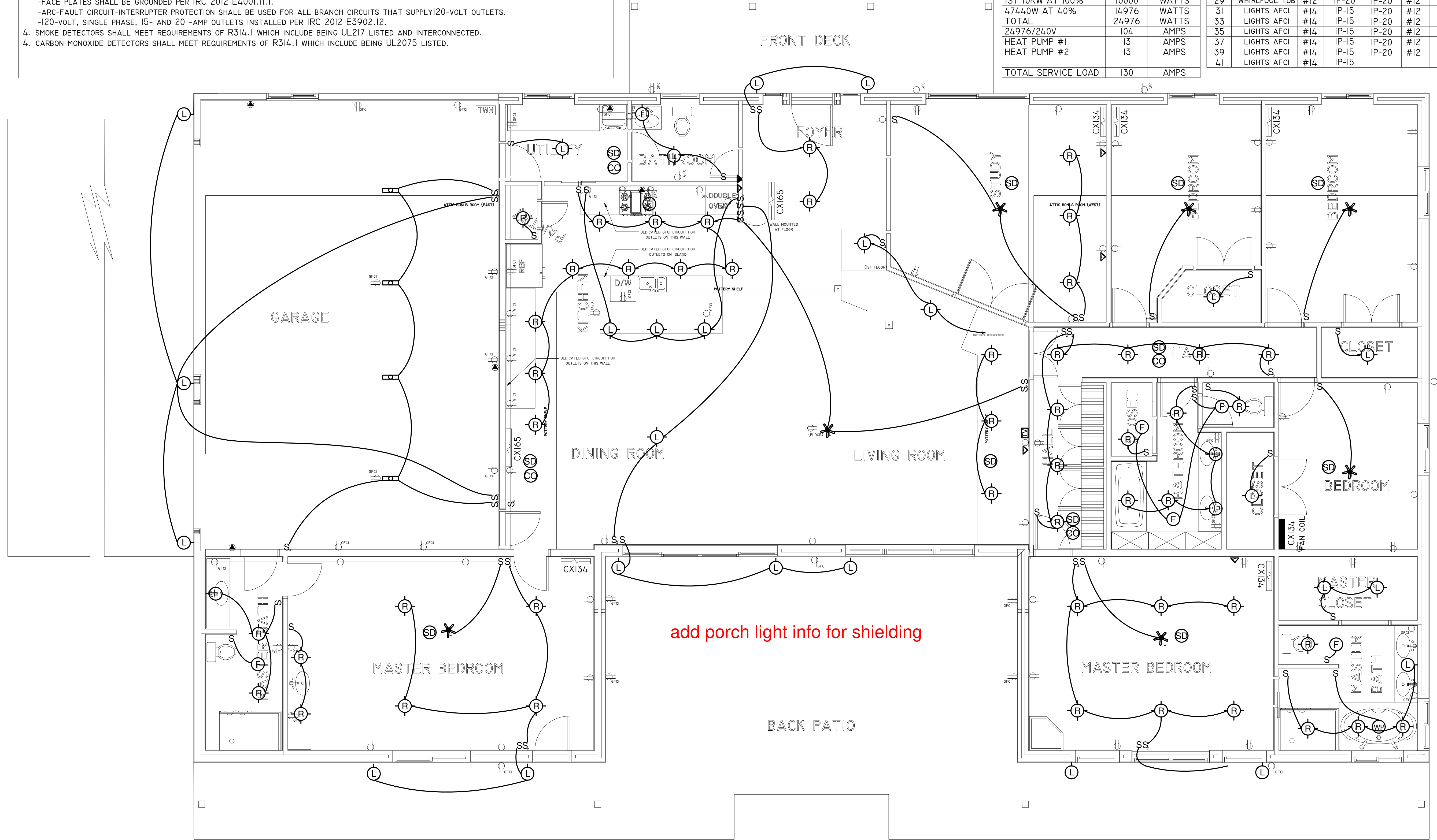
- |  |                                     |  |                      |  |                          |
|--|-------------------------------------|--|----------------------|--|--------------------------|
|  | OUTLET, DUPLEX (100V)               |  | EXHAUST FAN          |  | SMOKE DETECTOR           |
|  | OUTLET, DUPLEX, WEATHERPROOF (100V) |  | FAN COIL             |  | CARBON MONOXIDE DETECTOR |
|  | 220V OUTLET                         |  | WHIRLPOOL TUB        |  |                          |
|  | LIGHT FIXTURE, WALL                 |  | SWITCH, SINGLE POLE  |  |                          |
|  | LIGHT FIXTURE, CEILING              |  | SWITCH, DOUBLE POLE  |  |                          |
|  | LIGHT FIXTURE, RECESSED             |  | SWITCH, THREE WAY    |  |                          |
|  | FLUORESCENT LIGHT                   |  | SWITCH, FOUR WAY     |  |                          |
|  | CEILING FAN                         |  | SWITCH, WEATHERPROOF |  |                          |
|  | CEILING FAN W/ LIGHT                |  | DIMMER SWITCH        |  |                          |
|  |                                     |  | TELEPHONE JACK       |  |                          |
|  |                                     |  | COMPUTER JACK        |  |                          |
|  |                                     |  | TV CABLE             |  |                          |

**ELECTRICAL LOAD CALCULATIONS**

3620 S.F x 3 WATTS	15690	WATTS
RANGE OVEN	8000	WATTS
ELEC DRYER	5000	WATTS
JET TUB	1500	WATTS
BATH GFCCI X2	3000	WATTS
DOOR MOTOR	1500	WATTS
DUCTLESS FANS	3000	WATTS
CLOTHES WASHER	1500	WATTS
LAUNDRY	1500	WATTS
APPLIANCE X2	3000	WATTS
REFRIGERATOR	1500	WATTS
DW/DISPOSAL	2250	WATTS
<b>TOTAL</b>	<b>47440</b>	<b>WATTS</b>
IST 10KW AT 100%	10000	WATTS
47440W AT 40%	14976	WATTS
<b>TOTAL</b>	<b>24976</b>	<b>WATTS</b>
24976/240V	104	AMPS
HEAT PUMP #1	13	AMPS
HEAT PUMP #2	13	AMPS
<b>TOTAL SERVICE LOAD</b>	<b>130</b>	<b>AMPS</b>

**PANEL SCHEDULE**  
400 AMP MB PANEL 120/240 V IPH. 3W

CRKT	DESCRIPTION	WIRE	BRK	BKR	WIRE	DESCRIPTION	CRKT
1	SUB PNL, SHOP	#2	2P-200	IP-20	#12	BATH GFCCI	2
3	SUB PNL, SHOP	#2	2P-200	IP-20	#12	BATH GFCCI	4
5	2 TON HP #1	#12	2P-200	IP-20	#12	BATH GFCCI	6
7	2 TON HP #1	#12	2P-200	IP-20	#12	BATH GFCCI	8
9	2 TON HP #2	#12	2P-200	IP-20	#12	GARAGE GFCCI	10
11	2 TON HP #2	#12	2P-200	IP-20	#12	GARAGE GFCCI	12
13	OVEN	#6	2P-50	IP-20	#12	KITCHEN	14
15	OVEN	#6	2P-50	IP-20	#12	KITCHEN	16
17	GARAGE 220	#6	2P-50	IP-20	#12	KITCHEN	18
19	GARAGE 220	#6	2P-50	IP-20	#12	DW/DISPOSAL	20
21	DRYER	#10	2P-30	IP-20	#12	REC AFCI	22
23	DRYER	#10	2P-30	IP-20	#12	REC AFCI	24
25	FAN COILS	#12	IP-20	IP-20	#12	REC AFCI	26
27	FAN COILS	#12	IP-20	IP-20	#12	REC AFCI	28
29	WHIRLPOOL TUB	#12	IP-20	IP-20	#12	REC AFCI	30
31	LIGHTS AFCI	#14	IP-15	IP-20	#12	REC AFCI	32
33	LIGHTS AFCI	#14	IP-15	IP-20	#12	REC AFCI	34
35	LIGHTS AFCI	#14	IP-15	IP-20	#12	REC AFCI	36
37	LIGHTS AFCI	#14	IP-15	IP-20	#12	EXT GFCCI	38
39	LIGHTS AFCI	#14	IP-15	IP-20	#12	EXT GFCCI	40



**General Notes**

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**ELECTRICAL PLAN**

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10685 E ROCKY HILL RD  
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Drawn By ADAM GOLDENSTEIN	Sheet EI
Date 3/22/2018	
Scale 1/4" = 1'-0"	

**ELECTRICAL PLAN**