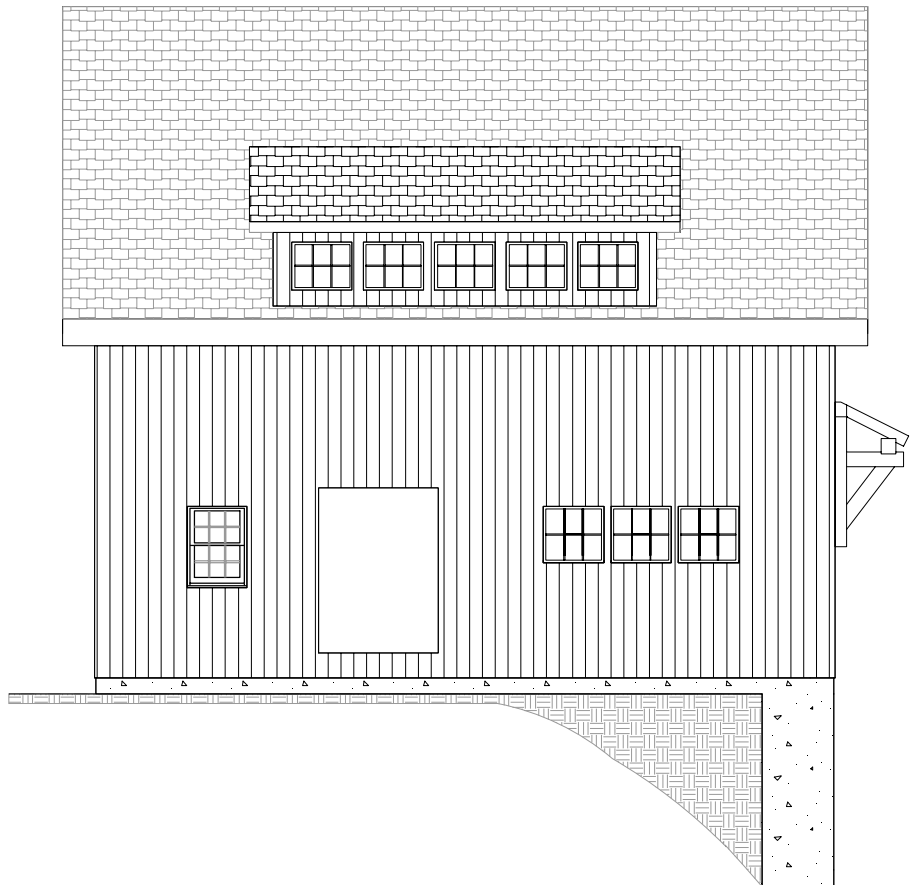


30'X30' CARRIAGE BARN KIT FOR:

JOE & KATHY SALVADOR

31 LAKE VIEW ROAD  
SHUTESBURY, MA 01072



30' x 30' POST & BEAM CARRIAGE BARN KIT

REVISION DATE: 11/10//2021

REVISION #:1

DESIGNED & FABRICATED BY:



DRAWING LIST

COVER	TITLE SHEET & DESIGN DATA
SHEET 1	ELEVATIONS
SHEET 2	FOUNDATION PLAN
SHEET 3	FOUNDATION DETAILS
SHEET 4	3D RENDERING
SHEET 5	POST & SILL PLAN
SHEET 6	FRAMING PLANS
SHEET 7	FRAMING SECTIONS
SHEET 8	FRAMING SECTIONS
SHEET 9	NOTES & DETAILS
SHEET 10	ENERGY CODE

THE BARN YARD

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860.454.9103

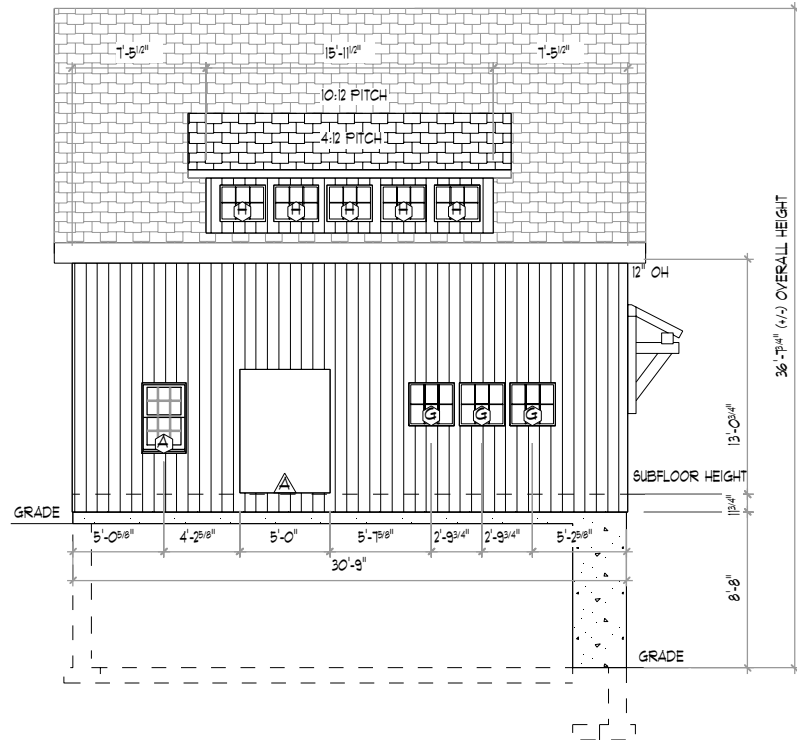
SHOWCASE LOCATIONS  
120 WEST RD. RTE. 6  
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860.896.0636 203.740.7433

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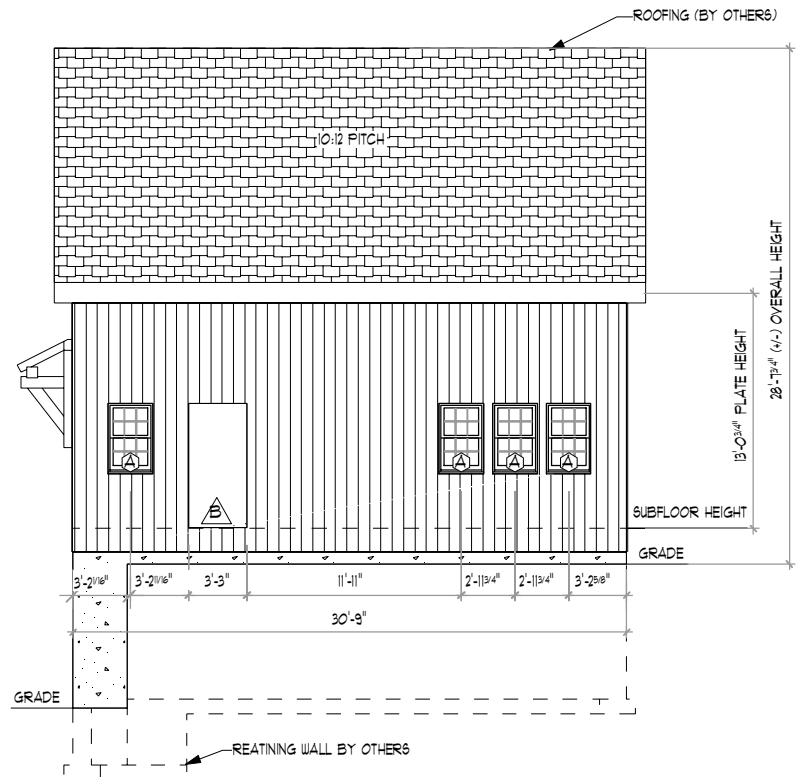
NOTE:  
ELEVATIONS & RENDERINGS  
ARE ARTISTS CONCEPTIONS.  
COLOR AND OPTION STYLES  
MAY DIFFER FROM ACTUAL  
CONSTRUCTION.

PROJECT NO. T230

PRINT DATE: 11.10.2021



1 FRONT ELEVATION  
TF-1 SCALE: 3/32" = 1'-0"



2 REAR ELEVATION  
TF-1 SCALE: 3/32" = 1'-0"

DOOR SCHEDULE- SUPPLIED BY CUSTOMER						
DOOR MANUFACTURE: CUSTOM						
LETTER	QTY	MODEL	RGH. OFG (WXH)	HINGE	SWING	COLOR
A	1	5'-0"X1'-0" W/ SIDE LIGHT	5'-0" x 6'-10 1/2"	LEFT	IN	N/A
B	2	3'-0"X1'-0" ENTRY DOOR	3'-3"X 6'-10 1/2"	LEFT	IN	N/A

WINDOW SCHEDULE- SUPPLIED BY CUSTOMER						
WINDOW MANUFACTURE: CUSTOM						
LETTER	QTY	MODEL	GRILL	TEMP.	EGRESS	RGH. OFG (WXH) COLOR
A	1	CUSTOM DH	6/6	NO	NO	2'-6 1/4 X 3'-10 7/8" N/A
B	2	CUSTOM CASEMENT LEFT HINGE	3/4	YES	YES	2'-6 1/8"X3'-8 7/8" N/A
C	2	CUSTOM CASEMENT RIGHT HINGE	3/4	YES	YES	2'-6 1/8"X3'-8 7/8" N/A
D	2	CUSTOM CASEMENT FIXED	3/4	YES	NO	2'-6 1/8"X3'-8 7/8" N/A
E	6	CUSTOM PICTURE	4/4	NO	NO	3'-6 1/2" X 4'-4 7/8" N/A
F	2	CUSTOM 8' BOW TOP	11/3	NO	NO	8'-0" X2'-1 5/8" N/A
G	3	CUSTOM AWNING	3/2	NO	NO	2'-6 1/4"X2'-4 1/4" N/A
H	5	CUSTOM AWNING	3/2	NO	NO	2'-6 1/4"X2'-0 1/4" N/A

BUILDING MATERIAL SCHEDULE		
ITEM	DESCRIPTION	FINISH/COLOR
ROOF ASSEMBLY		
ROOF INSULATION	10.5" SIP PANEL	NONE
ROOF DECKING	1X8 T&G PINE V-GROOVE DECKING	NONE
WALL ASSEMBLY		
INSULATION	4.5" SIP PANEL	NONE
FRAMING	2X6	NONE
INT. LAYER SIDING	1X8 KILN DRIED SHIPLAP PINE	NONE

### GCTF CONSTRUCTION SCOPE OF SERVICES

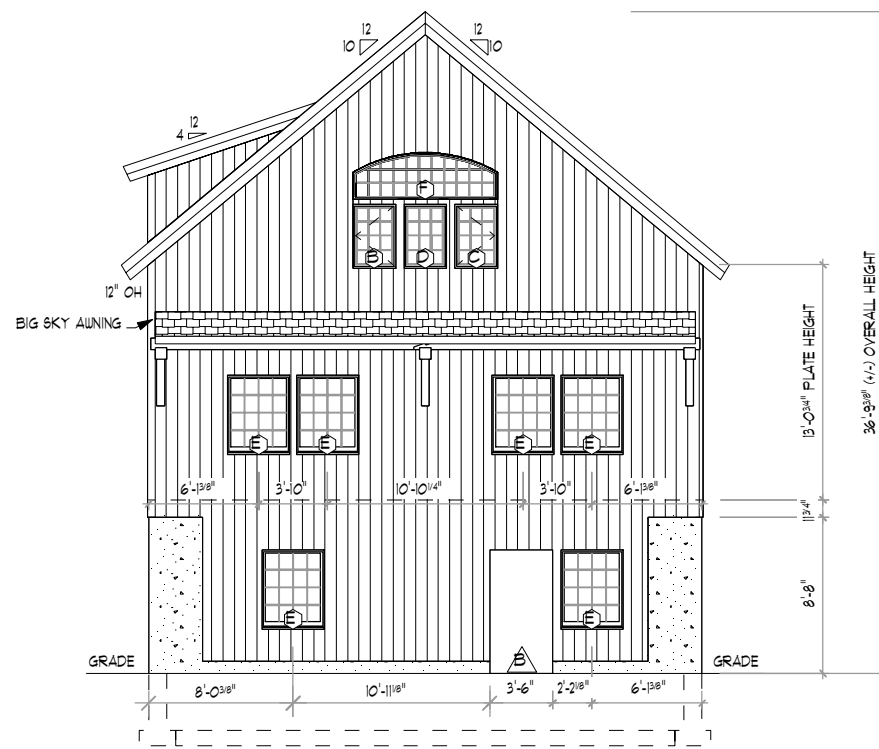
#### SUPPLY:

- STRUCTURAL TIMBER FRAME COMPONENTS
- 1X8 T&G ROOF DECKING
- 1X8 T&G DECKING 2ND FLOOR
- INTERIOR LAYER 1X8 PINE
- STRUCTURAL INSULATED PANELS (SIP)

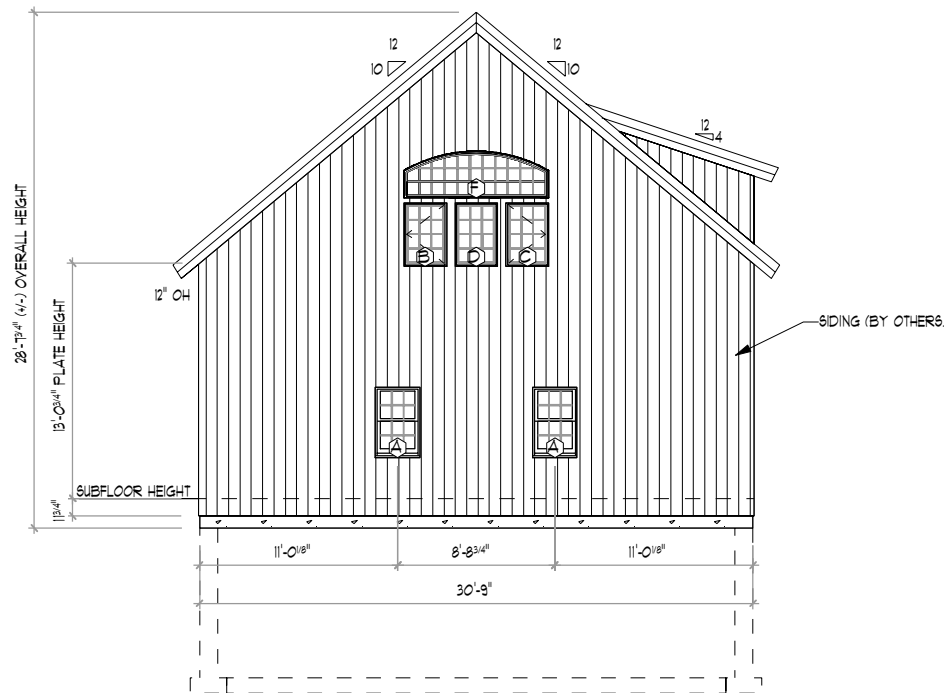
#### EXCLUSIONS INCLUDE BY ARE NOT LIMITED TO:

- FOUNDATION
- STRUCTURAL STEEL
- WALL & FLOOR FRAMING
- DOORS, WINDOWS, SIDING & ROOFING
- EXTERIOR DOOR & WINDOW TIMBER CLADDING

PER CONTRACT NO. T230 AND ANY APPROVED CHANGE ORDERS



3 RIGHT ELEVATION  
TF-1 SCALE: 3/32" = 1'-0"



4 LEFT ELEVATION  
TF-1 SCALE: 3/32" = 1'-0"



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860.896.0636 203.140.1433  
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**BUILDING CODE:**  
THE MASSACHUSETTS BUILDING RESIDENTIAL  
CODE 180 CMR NINTH EDITION.  
**DESIGN NOTES:**  
**DEAD LOADS:** SECOND FLOOR: 15 PSF  
ROOF: 15 PSF  
**LIVE LOADS:** SECOND FLOOR: 40 PSF  
ROOF: 20 PSF  
**SNOW LOADS:** ROOF: 40 PSF  
**WIND LOADS:** BASIC WIND SPEED(V): 111 MPH (3 SEC. GUST)  
**TIMBER NOTES:**  
**SPECIES:** EASTERN WHITE PINE  
**GRADE:** #2 OR BETTER  
**SURFACE:** S4S  
**SIZING:** 1/2" UNDER ROUGH DIM. (8X8 = 7.5"X7.5")  
**CHAMFERS:** (NONE)  
**FINISH:** (NONE)  
**FASTENER NOTES:**  
**STEEL:**  
- BOLTS, NUTS, WASHERS: D/A. AS NOTED, GALVANIZED, GRADE A307  
**TIMBER FRAME:**  
- TRADITIONAL MORTISE & TENON JOINERY 3/4" DIA. OAK PEGS AT BEAM CONNECTIONS.  
- TRADITIONAL WOOD CONNECTIONS TO BE SUPPLEMENTED BY STRUCTURAL WOOD SCREWS AS NOTED.

NO.	DATE	REVISIONS / SUBMISSIONS

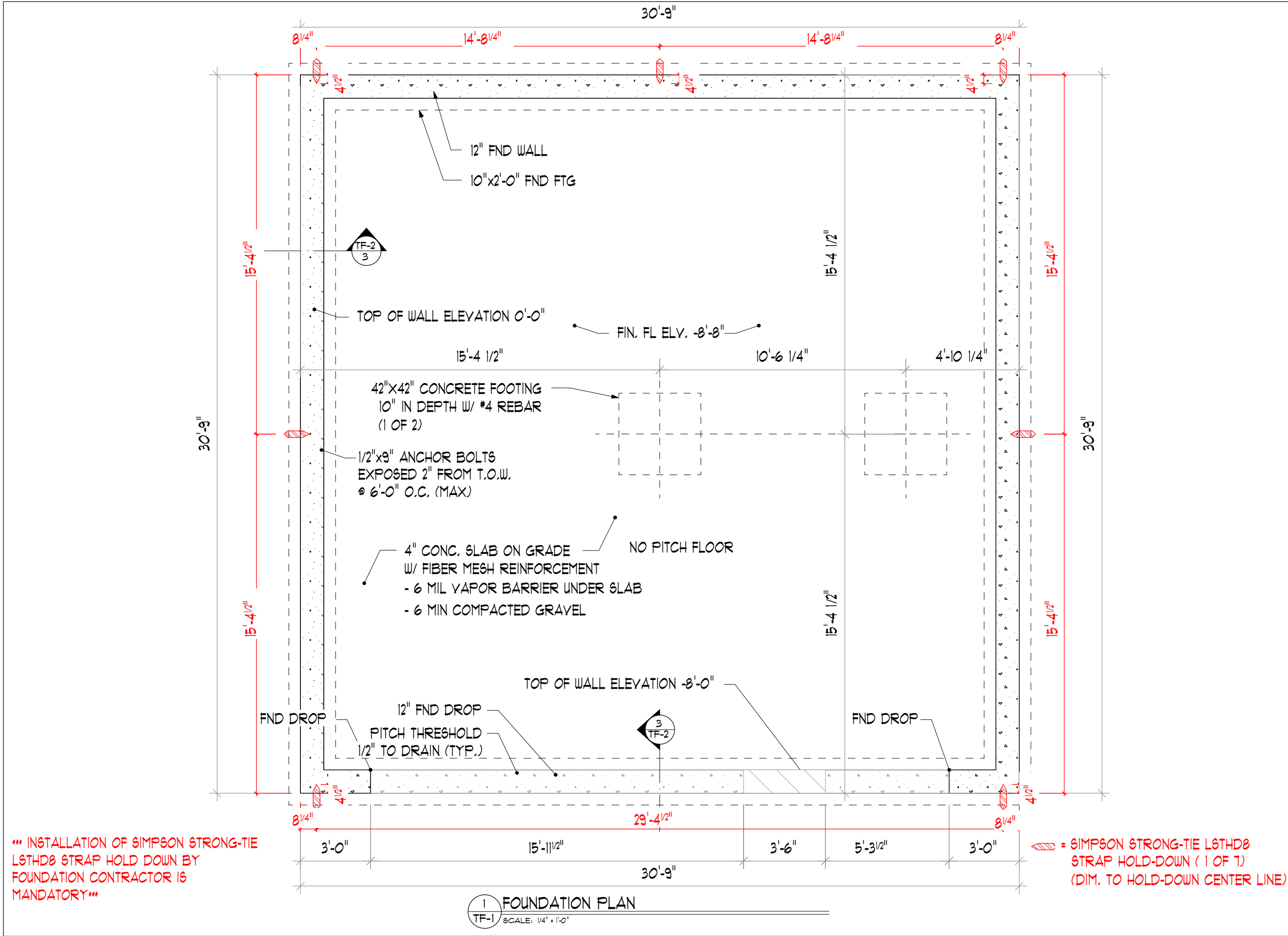
SEAL:

PROJECT TITLE:  
**30'X30' CARRIAGE BARN KIT FOR:  
JOE & KATHY SALVADOR  
31 LAKE VIEW ROAD  
SHUTESBURY, MA 01072**

DRAWING TITLE:  
**ELEVATIONS**

DATE: 11-10-21	SCALE: AS NOTED
DRWN BY: MEB	TF-1 OF 10
CHK BY: EWS	
PROJECT D: T230	

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BUILDING CODE:  
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CODE 180 CMR NINTH EDITION.  
DESIGN NOTES:  
DEAD LOADS: SECOND FLOOR: 15 PSF  
ROOF: 15 PSF  
LIVE LOADS: SECOND FLOOR: 40 PSF  
ROOF: 20 PSF  
SNOW LOADS: ROOF: 40 PSF  
WIND LOADS: BASIC WIND SPEED(V): 111 MPH (3 SEC. Gust)  
TIMBER NOTES:  
SPECIES: EASTERN WHITE PINE  
GRADE: #2 OR BETTER  
SURFACE: S4S  
SIZING: 1/2" UNDER ROUGH DIM. (8X8 = 1.5X1.5")  
CHAMFERS: (NONE)  
FINISH: (NONE)  
FASTENER NOTES:  
STEEL:  
- BOLTS, NUTS, WASHERS: D/A. AS NOTED, GALVANIZED, GRADE A307  
TIMBER FRAME:  
- TRADITIONAL MORTISE & TENON JOINERY 3/4" DIA. OAK PEGS AT  
BEAM CONNECTIONS.  
- TRADITIONAL WOOD CONNECTIONS TO BE SUPPLEMENTED BY  
STRUCTURAL WOOD SCREWS AS NOTED.

NO.	DATE	REVISIONS / SUBMISSIONS

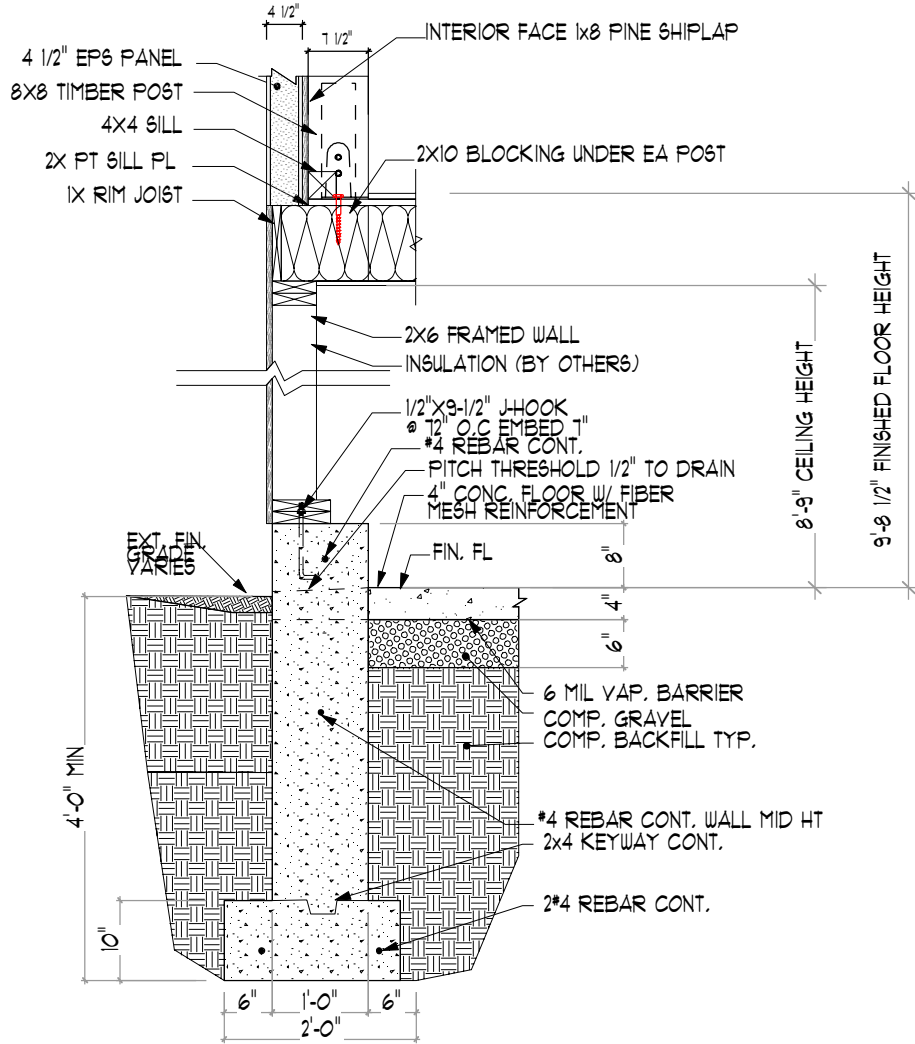
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30'X30' CARRIAGE BARN KIT FOR:  
JOE & KATHY SALVADOR  
31 LAKE VIEW ROAD  
SHUTESBURY, MA 01072

DRAWING TITLE:  
**FOUNDATION PLAN**

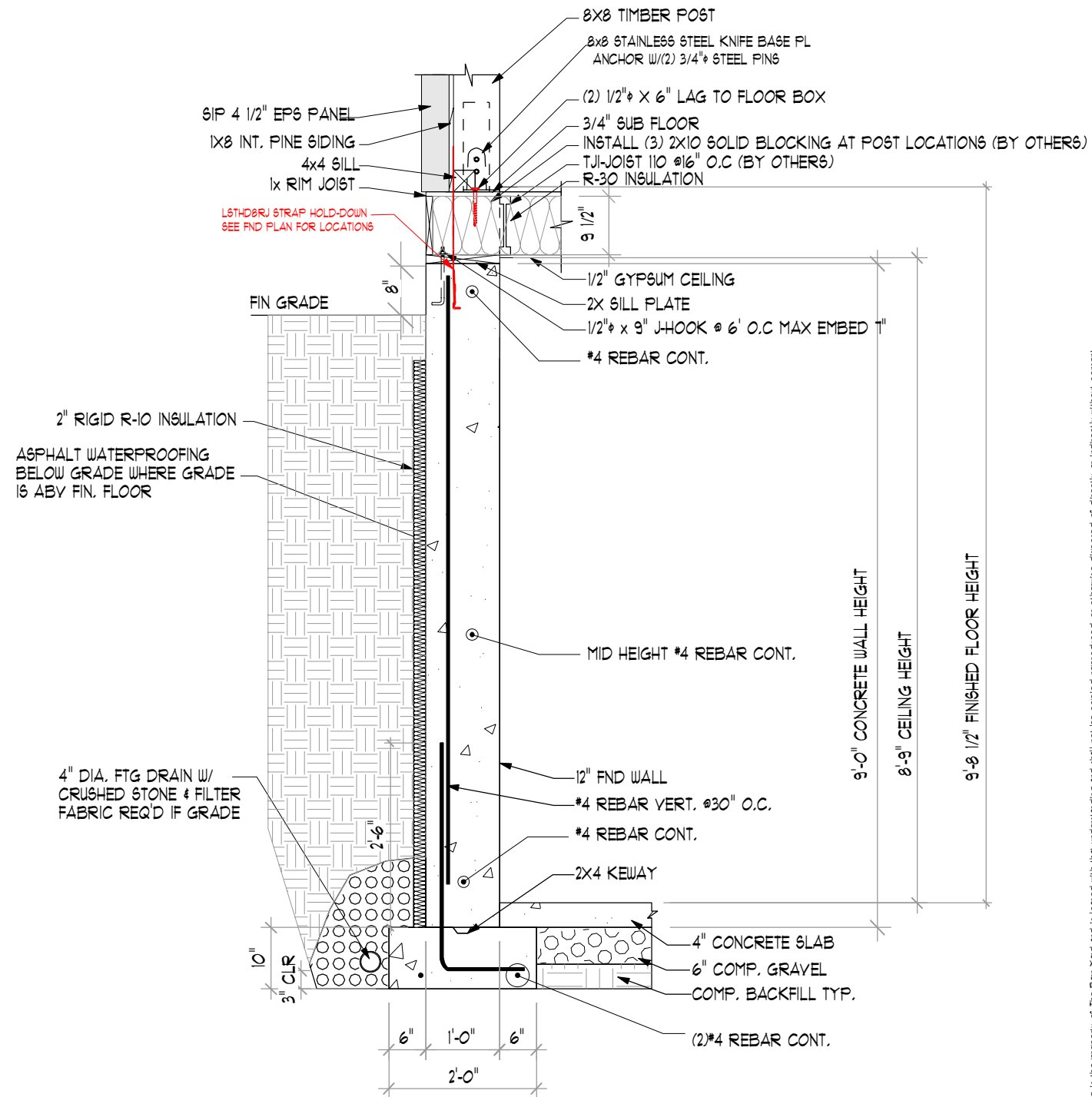
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11-10-21	AS NOTED

DRWN BY: MEB	TF-2 OF 10
CHK BY: EWS	
PROJECT D: T230	

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3 FOUNDATION DETAIL  
TF-2  
SCALE: 3/16



2 FOUNDATION DETAIL  
TF-2  
SCALE: 1/4

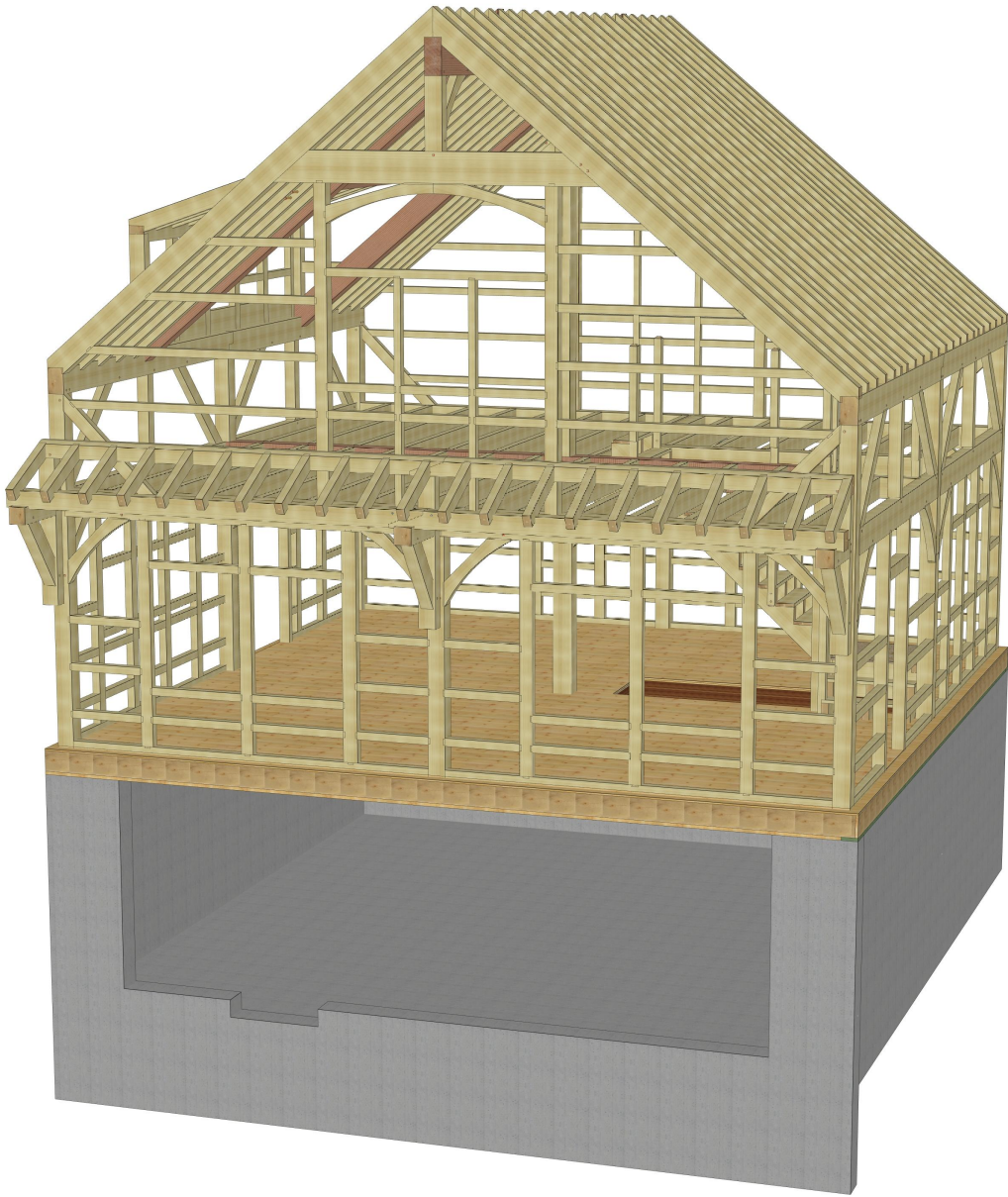
BUILDING CODE:  
THE MASSACHUSETTS BUILDING RESIDENTIAL  
CODE 180 CMR NINTH EDITION.  
DESIGN NOTES:  
DEAD LOADS: SECOND FLOOR: 15 PSF  
ROOF: 15 PSF  
LIVE LOADS: SECOND FLOOR: 40 PSF  
ROOF: 20 PSF  
SNOW LOADS: ROOF: 40 PSF  
WIND LOADS: BASIC WIND SPEED (V): 111 MPH (3 SEC. GUST)  
TIMBER NOTES:  
SPECIES: EASTERN WHITE PINE  
GRADE: #2 OR BETTER  
SURFACE: S4S  
SIZING: 1/2" UNDER ROUGH DIM. (8X8 = 1.5"X1.5")  
CHAMFERS: (NONE)  
FINISH: (NONE)  
FASTENER NOTES:  
STEEL:  
BOLTS, NUTS, WASHERS: D.I.A. AS NOTED, GALVANIZED, GRADE A307  
TIMBER FRAME:  
TRADITIONAL MORTISE & TENON JOINERY 3/4" DIA. OAK PEGS AT  
BEAM CONNECTIONS.  
TRADITIONAL WOOD CONNECTIONS TO BE SUPPLEMENTED BY  
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NO.	DATE	REVISIONS / SUBMISSIONS

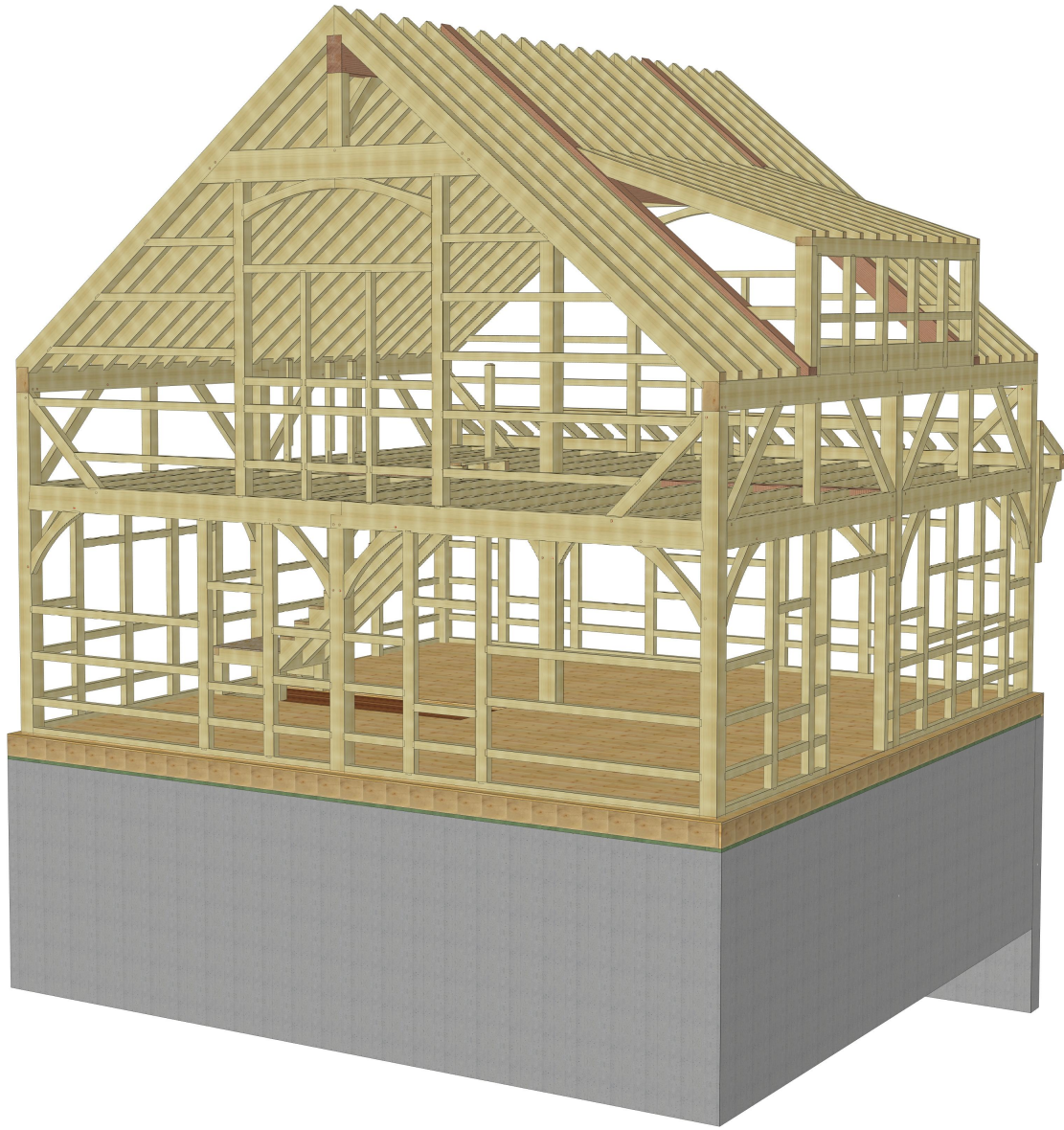
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PROJECT TITLE:  
30'X30' CARRIAGE BARN KIT FOR:  
JOE & KATHY SALVADOR  
31 LAKE VIEW ROAD  
SHUTESBURY, MA 01072

DRAWING TITLE:	
FOUNDATION DETAILS	
DATE: 11-10-21	SCALE: AS NOTED
DRAWN BY: MEB	TF-3 OF 10
CHECK BY: EWS	
PROJECT D: 7230	





1 FRONT 3D RENDERING  
TF-3 SCALE: NTS



2 REAR 3D RENDERING  
TF-3 SCALE: NTS



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DESIGN NOTES:  
DEAD LOADS: SECOND FLOOR: 15 PSF  
ROOF: 15 PSF  
LIVE LOADS: SECOND FLOOR: 40 PSF  
ROOF: 20 PSF  
SNOW LOADS: ROOF: 40 PSF  
WIND LOADS: BASIC WIND SPEED(V): 111 MPH (3 SEC. GUST)  
TIMBER NOTES:  
SPECIES: EASTERN WHITE PINE  
GRADE: #2 OR BETTER  
SURFACE: S4S  
SIZING: 1/2" UNDER ROUGH DIM. (8X8 + 1.5"X1.5")  
CHAMFERS: (NONE)  
FINISH: (NONE)  
FASTENER NOTES:  
STEEL:  
BOLTS, NUTS, WASHERS: D/A. AS NOTED, GALVANIZED, GRADE A307  
TIMBER FRAME:  
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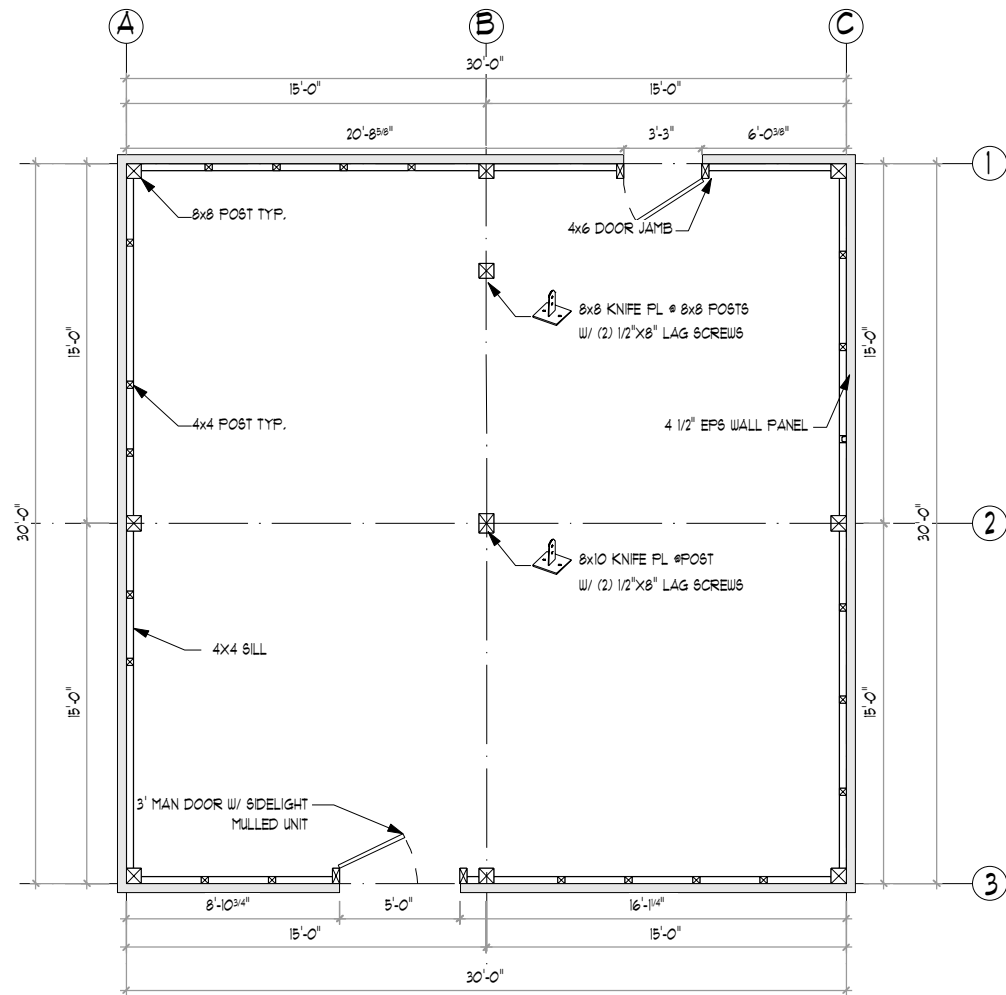
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30'X30' CARRIAGE BARN KIT FOR:  
JOE & KATHY SALVADOR  
31 LAKE VIEW ROAD  
SHUTESBURY, MA 01072

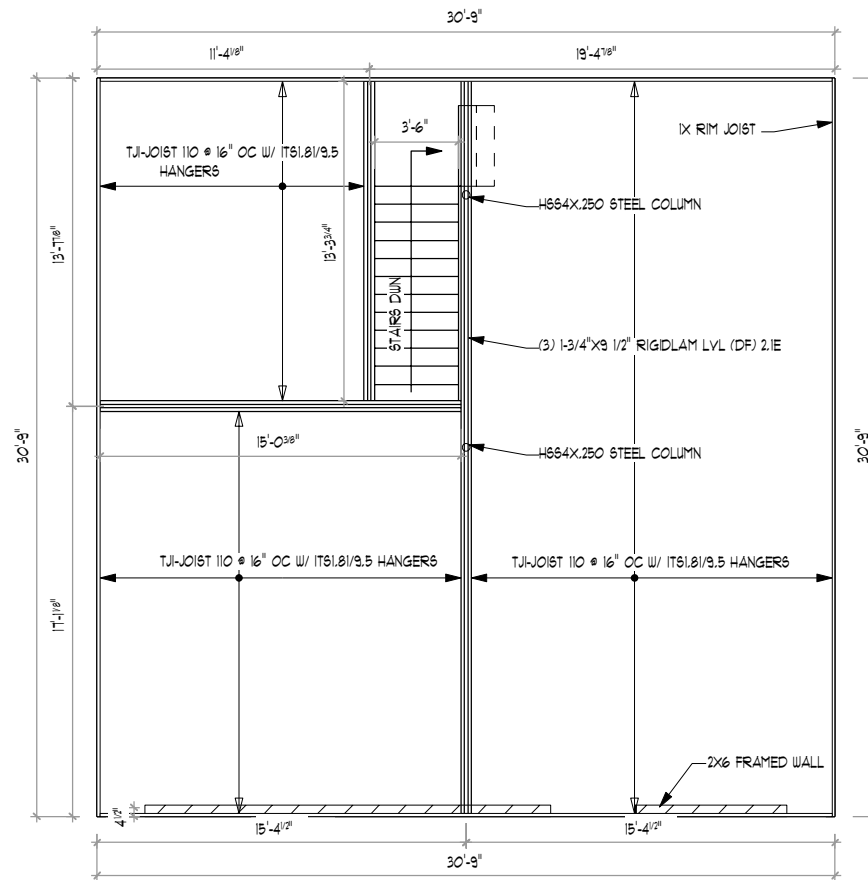
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3D RENDERING

DATE: 11-10-21	SCALE: AS NOTED
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CHK BY: EWS	
PROJECT D: T230	

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**1 POST & SILL PLAN**  
TF-4 SCALE: 1/8" = 1'-0"



**1 1ST FLOOR FRAMING PLAN**  
TF-4 SCALE: 1/8" = 1'-0"



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DESIGN NOTES:  
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ROOF: 15 PSF  
LIVE LOADS: SECOND FLOOR: 40 PSF  
ROOF: 20 PSF  
SNOW LOADS: ROOF: 40 PSF  
WIND LOADS: BASIC WIND SPEED(V): 111 MPH (3 SEC. Gust)  
TIMBER NOTES:  
SPECIES: EASTERN WHITE PINE  
GRADE: #2 OR BETTER  
SURFACE: S4S  
SIZING: 1/2" UNDER ROUGH DIM. (8x8 = 7 1/2"x7 1/2")  
CHAMFERS: (NONE)  
FINISH: (NONE)  
FASTENER NOTES:  
STEEL:  
- BOLTS, NUTS, WASHERS: D/A. AS NOTED, GALVANIZED, GRADE A307  
TIMBER FRAME:  
- TRADITIONAL MORTISE & TENON JOINERY 3/4" DIA. OAK PEGS AT  
BEAM CONNECTIONS.  
- TRADITIONAL WOOD CONNECTIONS TO BE SUPPLEMENTED BY  
STRUCTURAL WOOD SCREWS AS NOTED.

NO.	DATE	REVISIONS / SUBMISSIONS

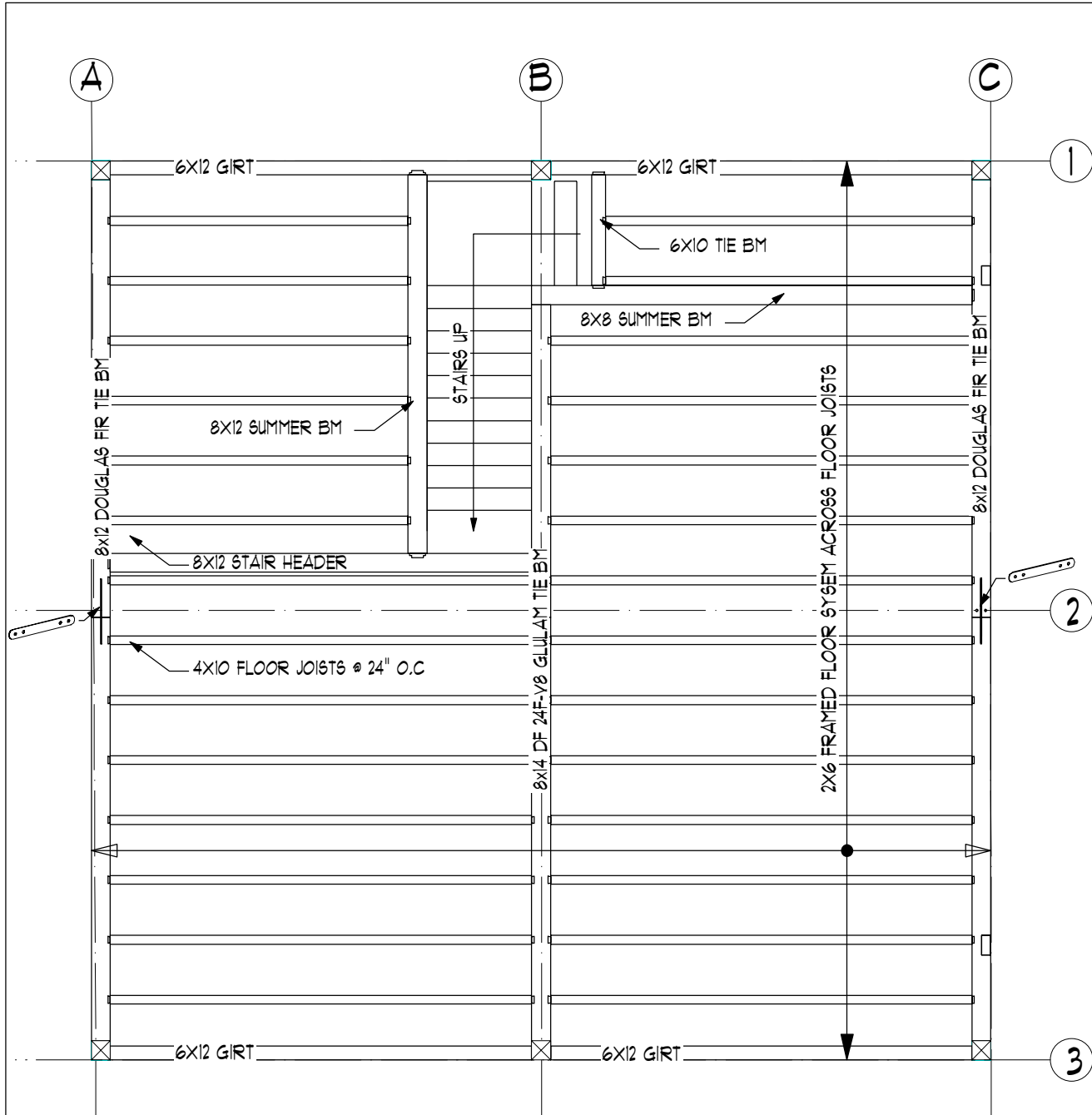
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30'X30' CARRIAGE BARN KIT FOR:  
JOE & KATHY SALVADOR  
31 LAKE VIEW ROAD  
SHUTESBURY, MA 01072

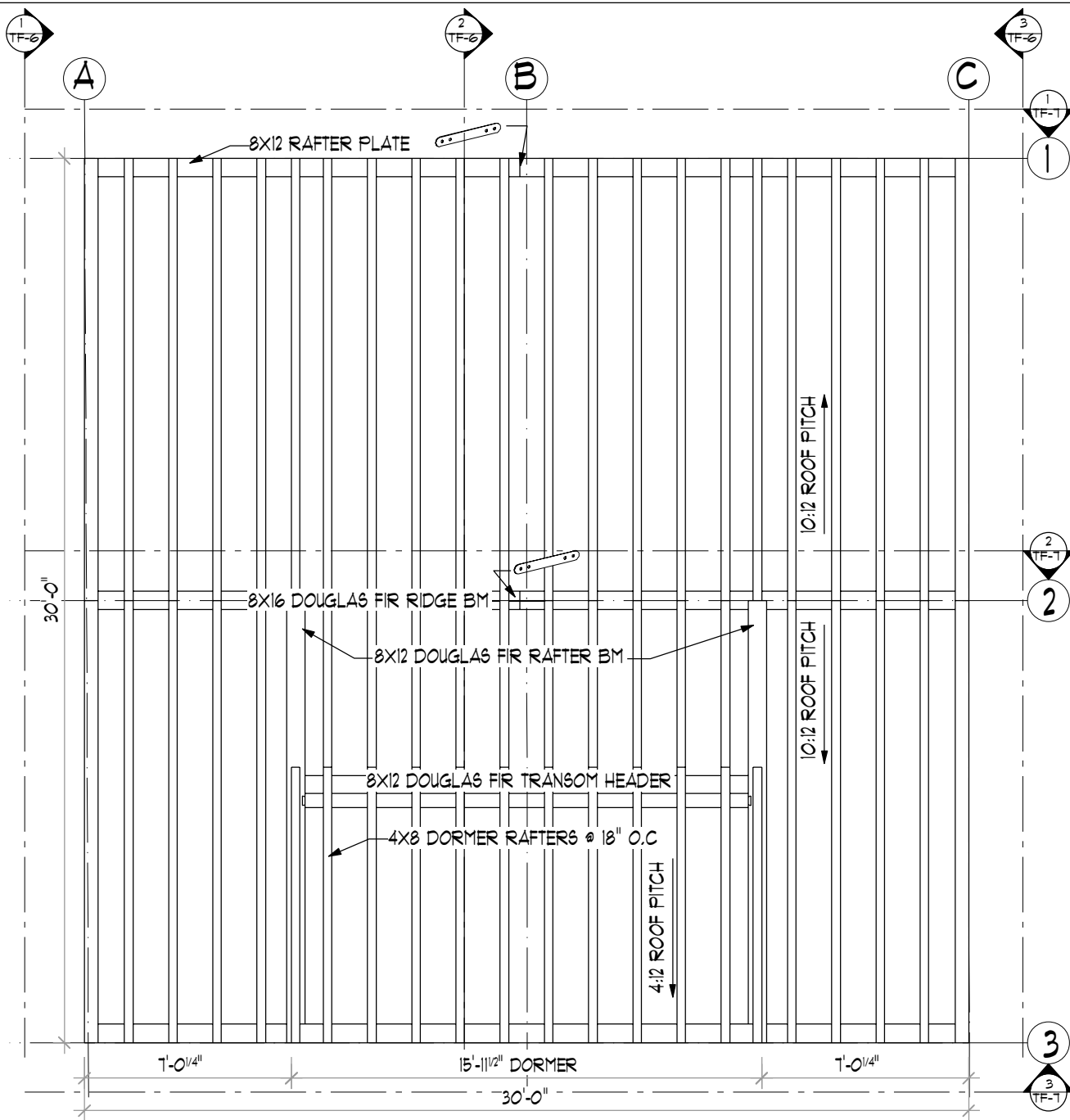
DRAWING TITLE:  
**POST & SILL PLAN**

DATE: 11-10-21	SCALE: AS NOTED
DRWN BY: MEB	TF-5 OF 10
CHK BY: EWS	
PROJECT D: 7230	

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1 SECOND FLOOR FRAMING PLAN  
TF-5 SCALE: 3/16" = 1'-0"



2 ROOF FRAMING PLAN  
TF-6 SCALE: 3/16" = 1'-0"

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BUILDING CODE:  
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CODE 180 CMR NINTH EDITION.  
DESIGN NOTES:  
DEAD LOADS: SECOND FLOOR: 15 PSF  
ROOF: 15 PSF  
LIVE LOADS: SECOND FLOOR: 40 PSF  
ROOF: 20 PSF  
SNOW LOADS: ROOF: 40 PSF  
WIND LOADS: BASIC WIND SPEED(V): 111 MPH (3 SEC. GUST)  
TIMBER NOTES:  
SPECIES: EASTERN WHITE PINE  
GRADE: #2 OR BETTER  
SURFACE: S4S  
SIZING: 1/2" UNDER ROUGH DIM. (8X8 = 7.5X7.5)  
CHAMFERS: (NONE)  
FINISH: (NONE)  
FASTENER NOTES:  
STEEL:  
BOLTS, NUTS, WASHERS: D/A. AS NOTED, GALVANIZED, GRADE A307  
TIMBER FRAME:  
- TRADITIONAL MORTISE & TENON JOINERY 3/4" DIA. OAK PEGS AT BEAM CONNECTIONS.  
- TRADITIONAL WOOD CONNECTIONS TO BE SUPPLEMENTED BY STRUCTURAL WOOD SCREWS AS NOTED.

NO.	DATE	REVISIONS / SUBMISSIONS

SEAL:

PROJECT TITLE:  
30'X30' CARRIAGE BARN KIT FOR:  
JOE & KATHY SALVADOR  
31 LAKE VIEW ROAD  
SHUTESBURY, MA 01072

DRAWING TITLE:  
**FRAMING PLAN**

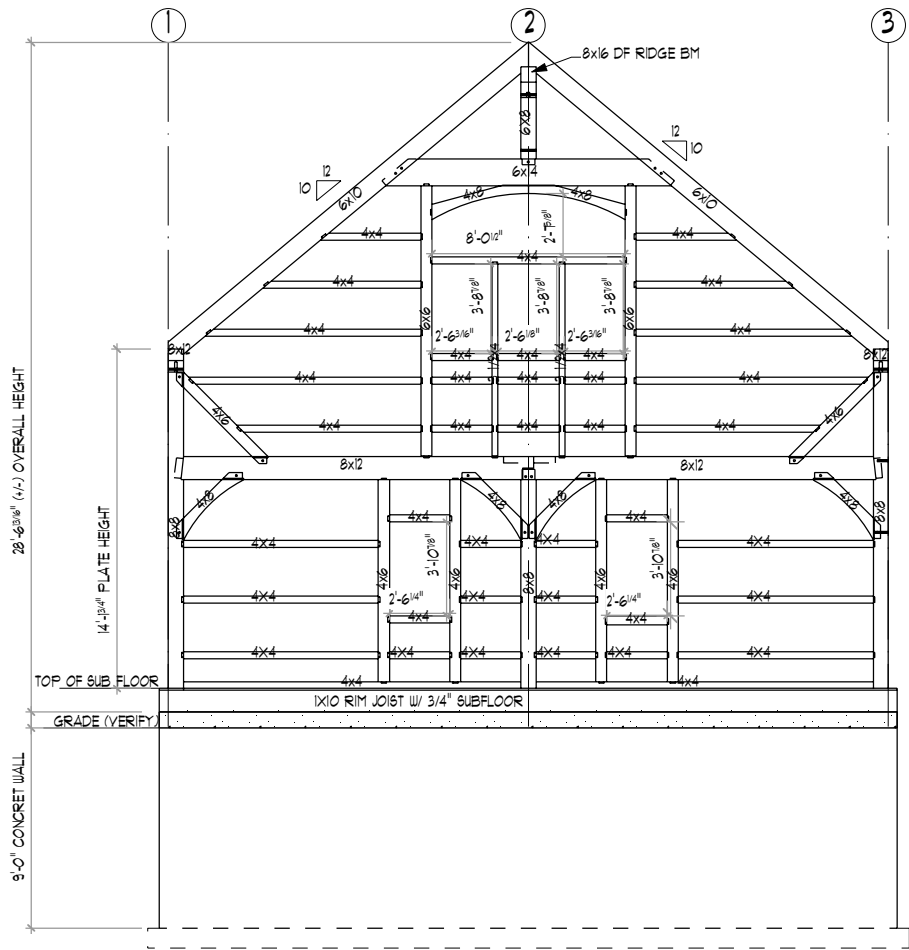
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11-10-21	AS NOTED

DRWN BY:	TF-6 OF 10
MEB	
CHK BY: EWS	

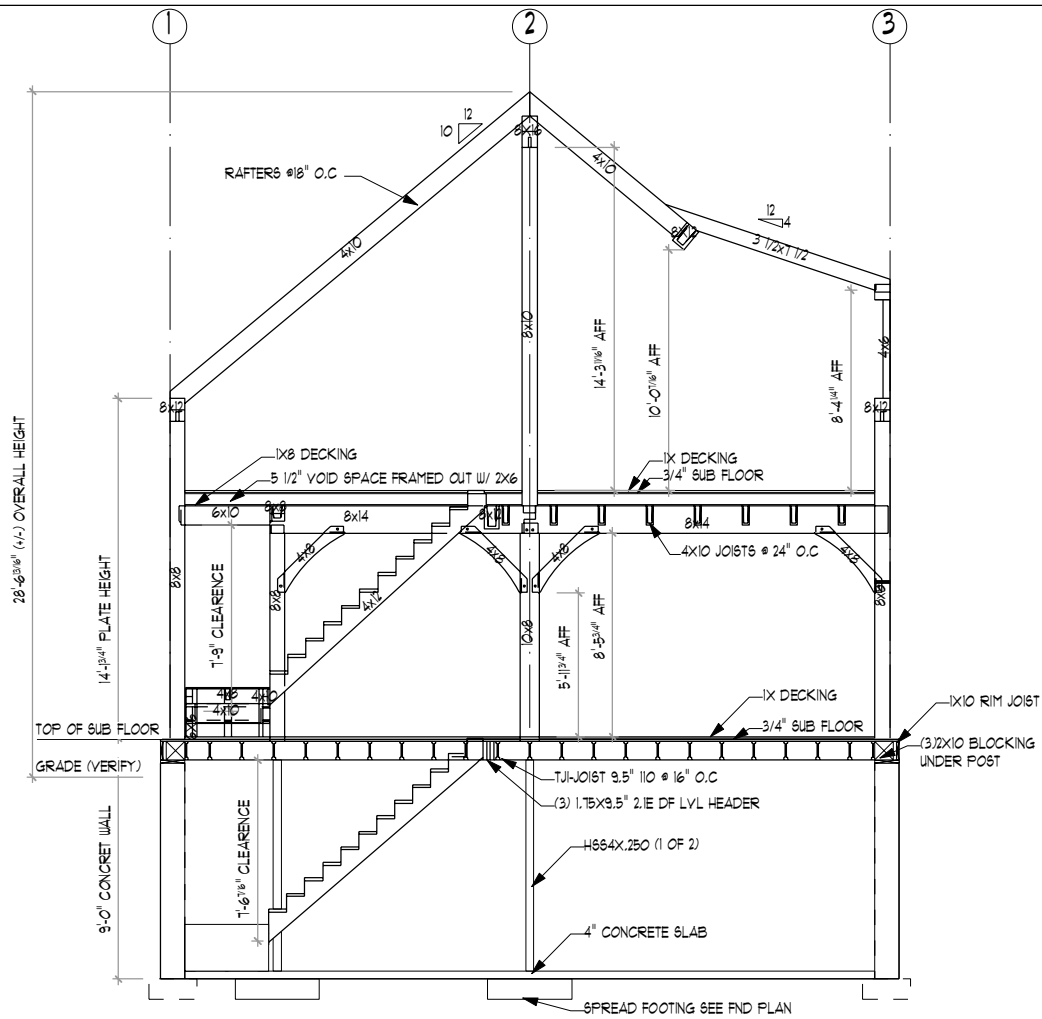
PROJECT D:
T230

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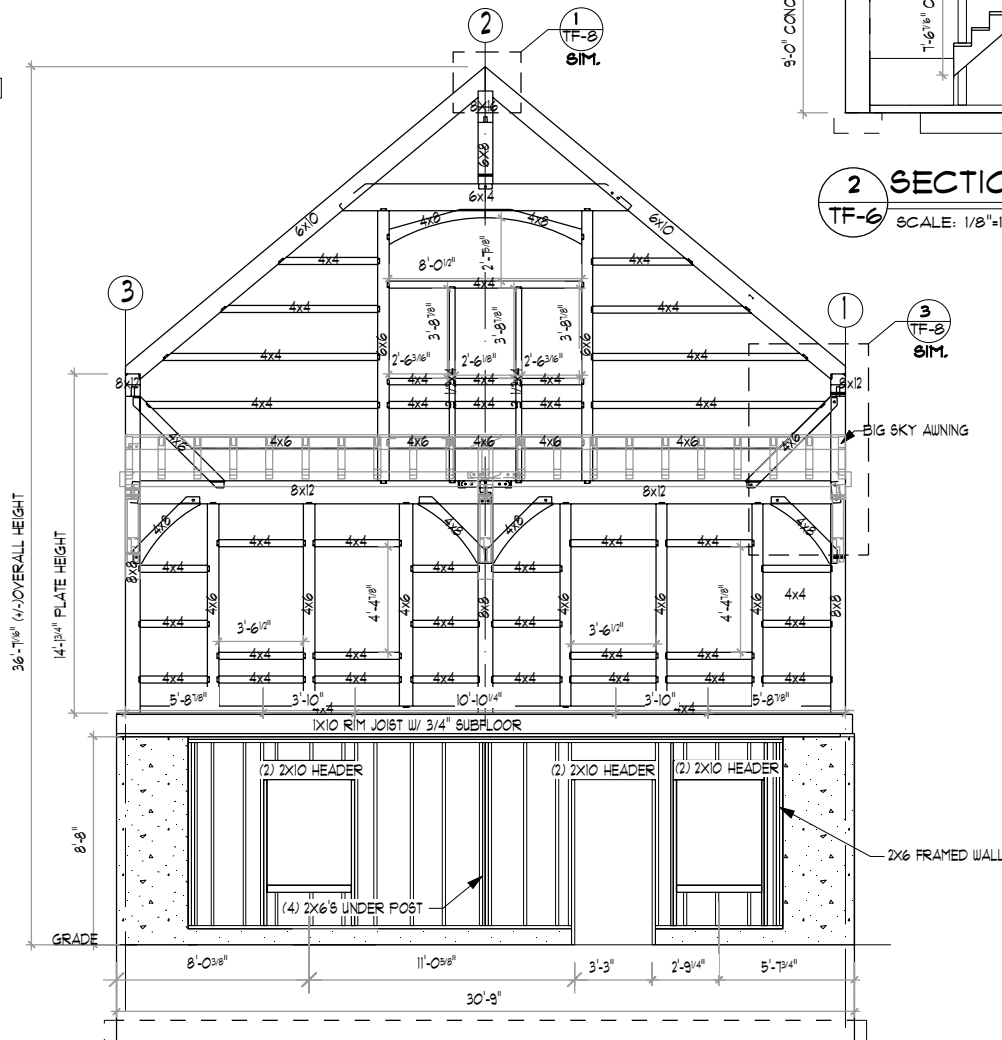




1 SECTION - LINE A  
TF-6 SCALE: 1/8"=1'-0"



2 SECTION - LINE B  
TF-6 SCALE: 1/8"=1'-0"



3 SECTION - LINE C  
TF-6 SCALE: 1/8"=1'-0"

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BUILDING CODE:  
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CODE 180 CMR NINTH EDITION.  
DESIGN NOTES:  
DEAD LOADS: SECOND FLOOR: 15 PSF  
ROOF: 15 PSF  
LIVE LOADS: SECOND FLOOR: 40 PSF  
ROOF: 20 PSF  
SNOW LOADS: ROOF: 40 PSF  
WIND LOADS: BASIC WIND SPEED (V): 111 MPH (3 SEC. GUST)  
TIMBER NOTES:  
SPECIES: EASTERN WHITE PINE  
GRADE: #2 OR BETTER  
SURFACE: S4S  
BENDING: 1/2" UNDER ROUGH DIM. (8X8 + 1.5"X1.5")  
CHAMFERS: (NONE)  
FINISH: (NONE)  
FASTENER NOTES:  
STEEL:  
BOLTS, NUTS, WASHERS: D.I.A. AS NOTED, GALVANIZED, GRADE A307  
TIMBER FRAME:  
TRADITIONAL MORTISE & TENON JOINERY W/ 1" DIA. OAK PEGS AT  
BEAM CONNECTIONS.  
TRADITIONAL WOOD CONNECTIONS TO BE SUPPLEMENTED BY  
STRUCTURAL WOOD SCREWS AS NOTED.

NO.	DATE	REVISIONS / SUBMISSIONS

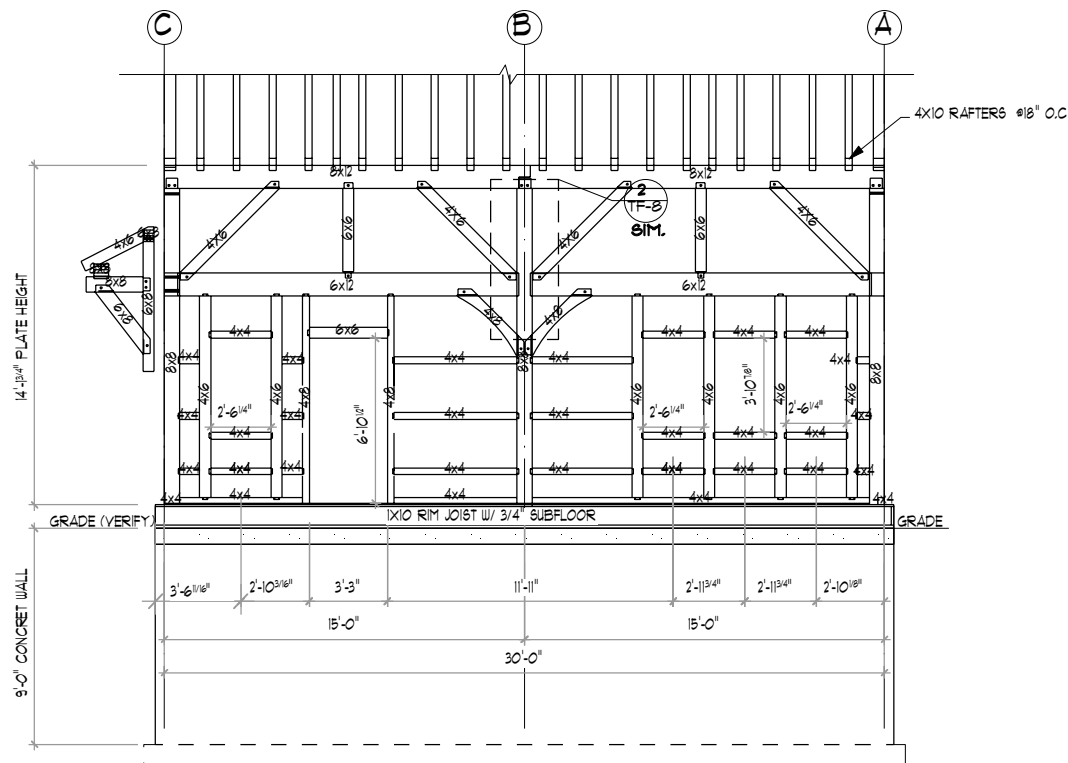
SEAL:

PROJECT TITLE:  
30'X30' CARRIAGE BARN KIT FOR:  
JOE & KATHY SALVADOR  
31 LAKE VIEW ROAD  
SHUTESBURY, MA 01072

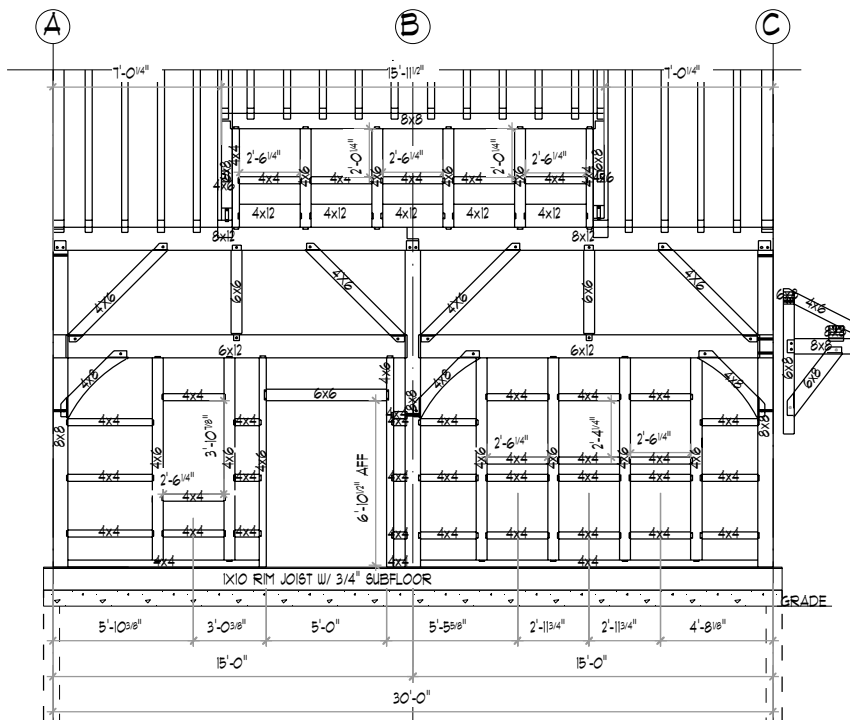
DRAWING TITLE:  
**FRAMING SECTIONS**

DATE: 11-10-21	SCALE: AS NOTED
DRWN BY: MEB	TF-1 OF 10
CHK BY: EWS	
PROJECT D: 7230	

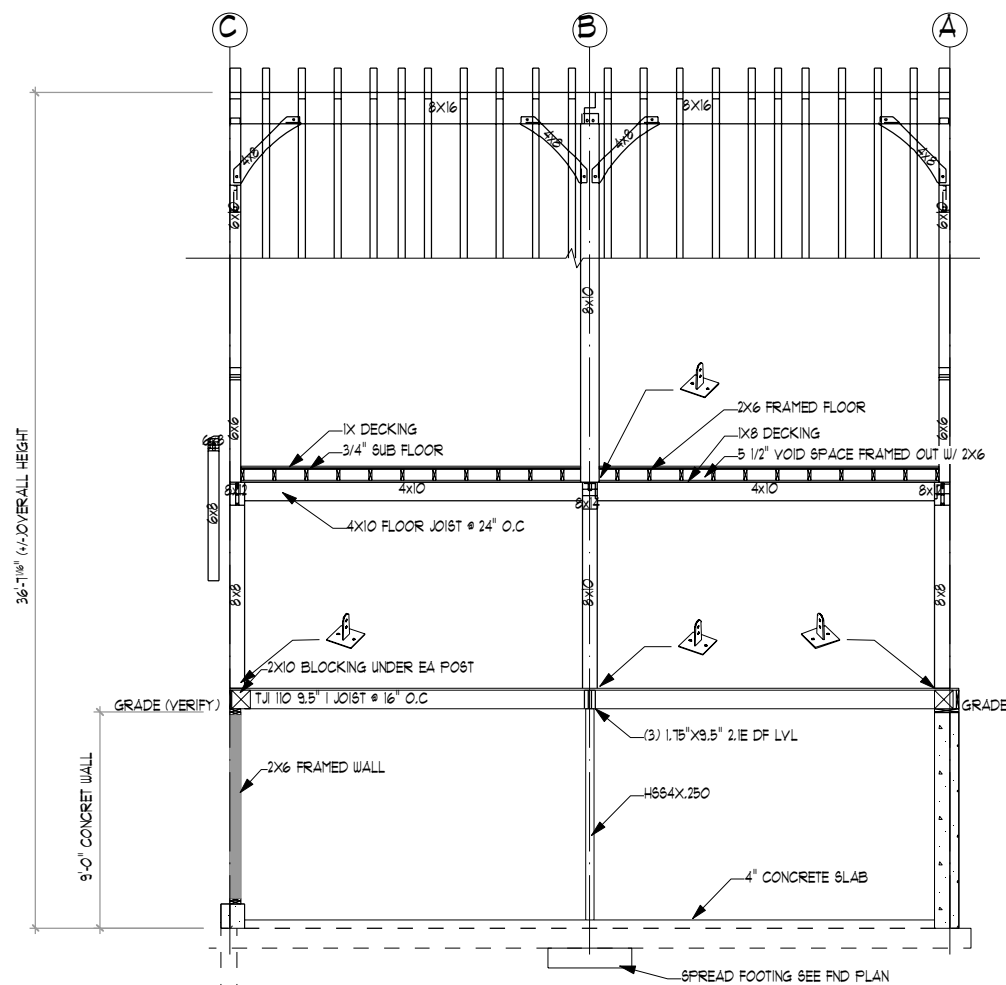




1 SECTION - LINE 1  
TF-7 SCALE: 1/8"=1'-0"



3 SECTION - LINE 3  
TF-7 SCALE: 1/8"=1'-0"



2 SECTION - LINE 2  
TF-7 SCALE: 1/8"=1'-0"



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BUILDING CODE:  
THE MASSACHUSETTS BUILDING RESIDENTIAL  
CODE 180 CMR NINTH EDITION.  
DESIGN NOTES:  
DEAD LOADS: SECOND FLOOR: 15 PSF  
ROOF: 15 PSF  
LIVE LOADS: SECOND FLOOR: 40 PSF  
ROOF: 20 PSF  
SNOW LOADS: ROOF: 40 PSF  
WIND LOADS: BASIC WIND SPEED(V): 111 MPH (3 SEC. GUST)  
TIMBER NOTES:  
SPECIES: EASTERN WHITE PINE  
GRADE: #2 OR BETTER  
SURFACE: S4S  
SIZING: 1/2" UNDER ROUGH DIM. (8X8 = 7.5X7.5")  
CHAMFERS: (NONE)  
FINISH: (NONE)  
FASTENER NOTES:  
STEEL:  
BOLTS, NUTS, WASHERS: D/A. AS NOTED, GALVANIZED, GRADE A307  
TIMBER FRAME:  
TRADITIONAL MORTISE & TENON JOINERY 1/1" DIA. OAK PEGS AT  
BEAM CONNECTIONS.  
TRADITIONAL WOOD CONNECTIONS TO BE SUPPLEMENTED BY  
STRUCTURAL WOOD SCREWS AS NOTED.

NO.	DATE	REVISIONS / SUBMISSIONS

SEAL:

PROJECT TITLE:  
30'X30' CARRIAGE BARN KIT FOR:  
JOE & KATHY SALVADOR  
31 LAKE VIEW ROAD  
SHUTESBURY, MA 01072

DRAWING TITLE:  
FRAMING SECTIONS

DATE: 11-10-21	SCALE: AS NOTED
DRWN BY: MEB	TF-8 OF 10
CHK BY: EWS	
PROJECT D: T230	

STRUCTURAL NOTES:

ALL WORK SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE MASSACHUSETTS BUILDING RESIDENTIAL CODE 180 CMR NINTH EDITION. DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST ENGINEERING DRAWINGS.THE CONTRACTORSHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES OPENINGS NOT SPECIFICALLY SHOWN SHALL BE APPROVED BY THE ENGINEER. ALL WORK TO CONFORM TO ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES AND REGULATIONS, AND THE OWNERS OR DESIGNATED CONTRACTORS SHALL SECURE APPROPRIATE PERMITS REQUIRED BEFORE COMMENCEMENT OF ACTUAL CONSTRUCTION. ALL CONTRACTORS, SUBCONTRACTORS, SUPPLIERS AND ALL OTHER PERSONS ENGAGED IN ANY CAPACITY ON THIS PROJECT SHALL BE SUBJECT TO PROVISIONS OF THE OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) WHICH IS ADMINISTERED AND ENFORCED BY U.S. DEPARTMENT OF HEALTH.

FOUNDATIONS:

ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL MATERIAL OR GRANULAR FILL. ELEVATIONS OF BOTTOM OF FOOTING SHOWN ON PLANS ARE FOR BIDDING PURPOSES AND SHALL BE LOWERED IF NECESSARY TO THE REQUIRED BEARING MATERIAL AS FOUND UPON EXCAVATION. IF THE REQUIRED BEARING MATERIAL IS NOT ENCOUNTERED AT ELEVATIONS SHOWN, NOTIFY ENGINEER IMMEDIATELY. CONTROLLED BACK FILL AND COMPACTION IF REQUIRED.

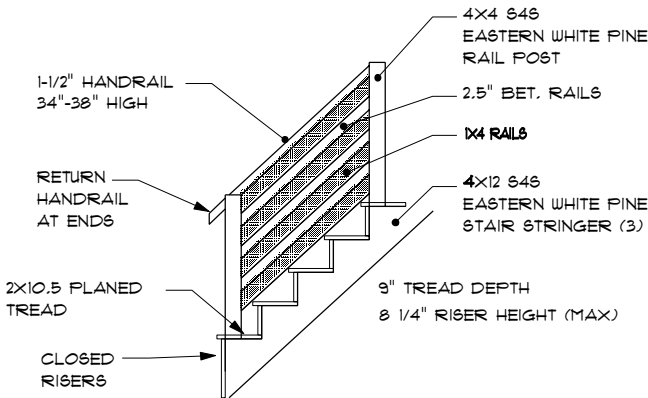
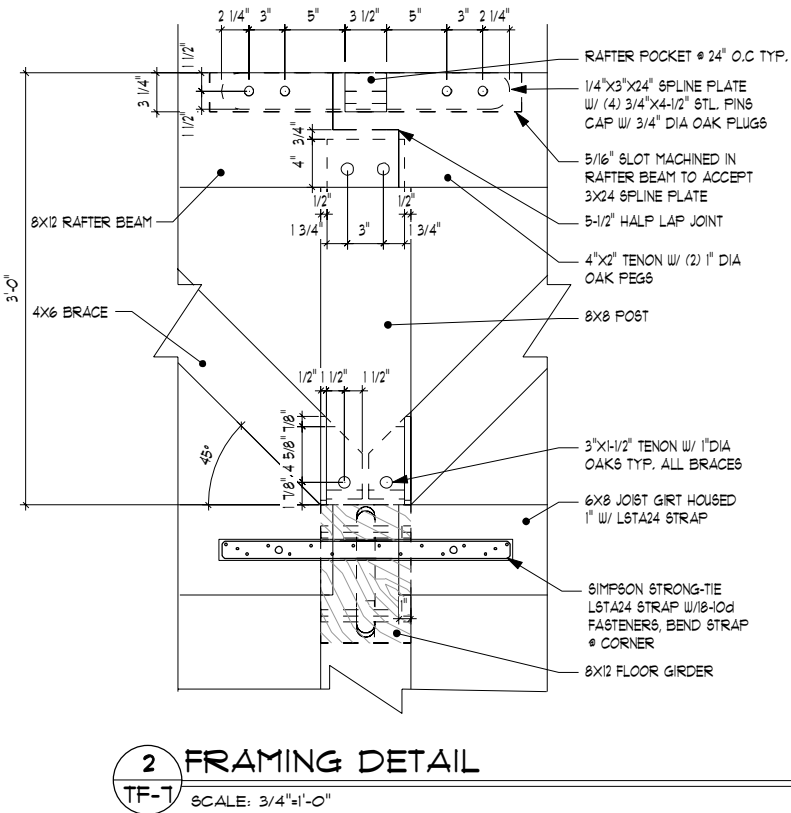
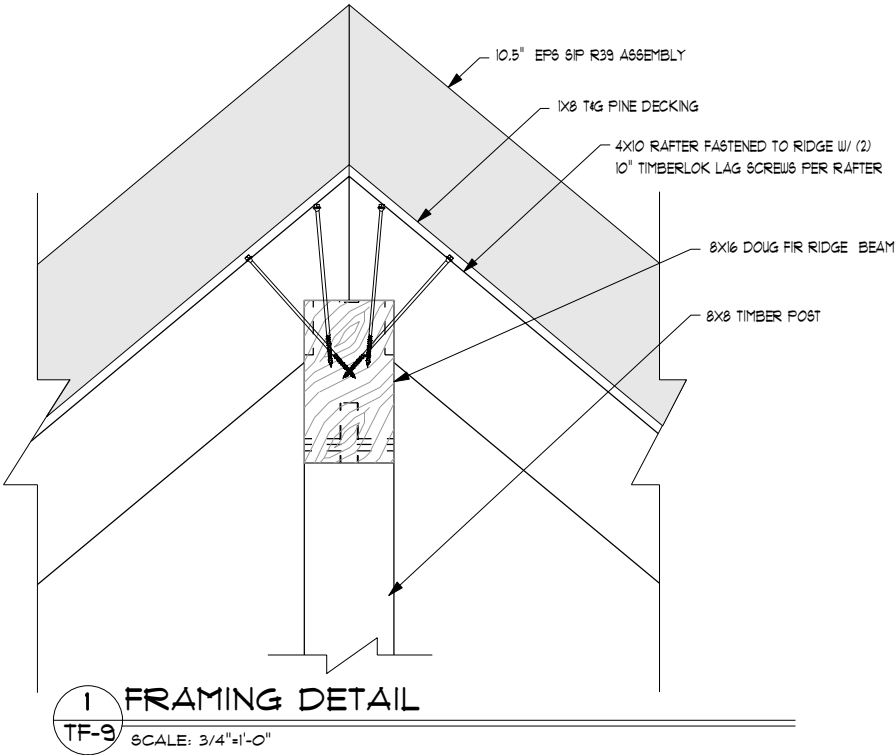
A. SCOPE: WHERE UNACCEPTABLE MATERIAL MUST BE REMOVED AND REPLACED WITH PROPER MATERIAL. A CONTROLLED PROCEDURE MUST BE FOLLOWED TO ENSURE PROPER BEARING FOR THE BUILDING.

B. FILLING AND GRADING: BEFORE BACK FILLING, REMOVE CONSTRUCTION DEBRIS, STUMPS, TREES, ROOTS, SOD, HEAVY GRASS, DECAYED VEGETABLE MATTER AND OTHER UNSUITABLE MATERIALS. FILL MATERIAL SHALL BE AS APPROVED BY THE ENGINEER.

C. CONSTRUCTION METHODS: AFTER DEPOSITING FILL OR BACK FILL IN 1 FOOT LIFTS, WELL WASHED IN, COMPACT TO THE FOLLOWING PERCENT OPTIMUM DENSITY. THE DRY DENSITY AFTER COMPACTION SHALL NOT BE LESS THAN 95% OF THE DRY DENSITY FOR THAT SOIL WHEN TESTED IN ACCORDANCE WITH ASTM D1557, METHOD D. IN THIS TEST, MATERIALS RETAINED ON THE THREE-QUARTER SIEVE SHALL BE REPLACED WITH MATERIAL RETAINED ON THE NO. 4 SIEVE, AS NOTED AS AN OPTION IN THE SPECIFICATIONS FOR THIS TEST.

D. FIELD TESTS: PERFORM ONE FIELD DENSITY TEST FOR EACH SOURCE OF FILL MATERIAL PERFORMED IN ACCORDANCE WITH ASTM D1556. PERFORM STANDARD FIELD DENSITY TESTS EACH OF AN ACCURACY OF PLUS OR MINUS ONE PERCENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ENGINEER AND TESTING LABORATORY WHEN EACH LAYER OF FILL IS TO BE PLACE AND READY FOR TESTING. THE CONTRACTOR SHALL ALLOW AMPLE TIME FOR TESTING. IF ANY FILL IS PLACED IN EXCESS OF SIXTEEN (16) WITHOUT TESTING, IT SHALL BE SUBJECT TO REMOVAL. SIEVE ANALYSIS SHALL BE AT THE CONTRACTOR'S EXPENSE.

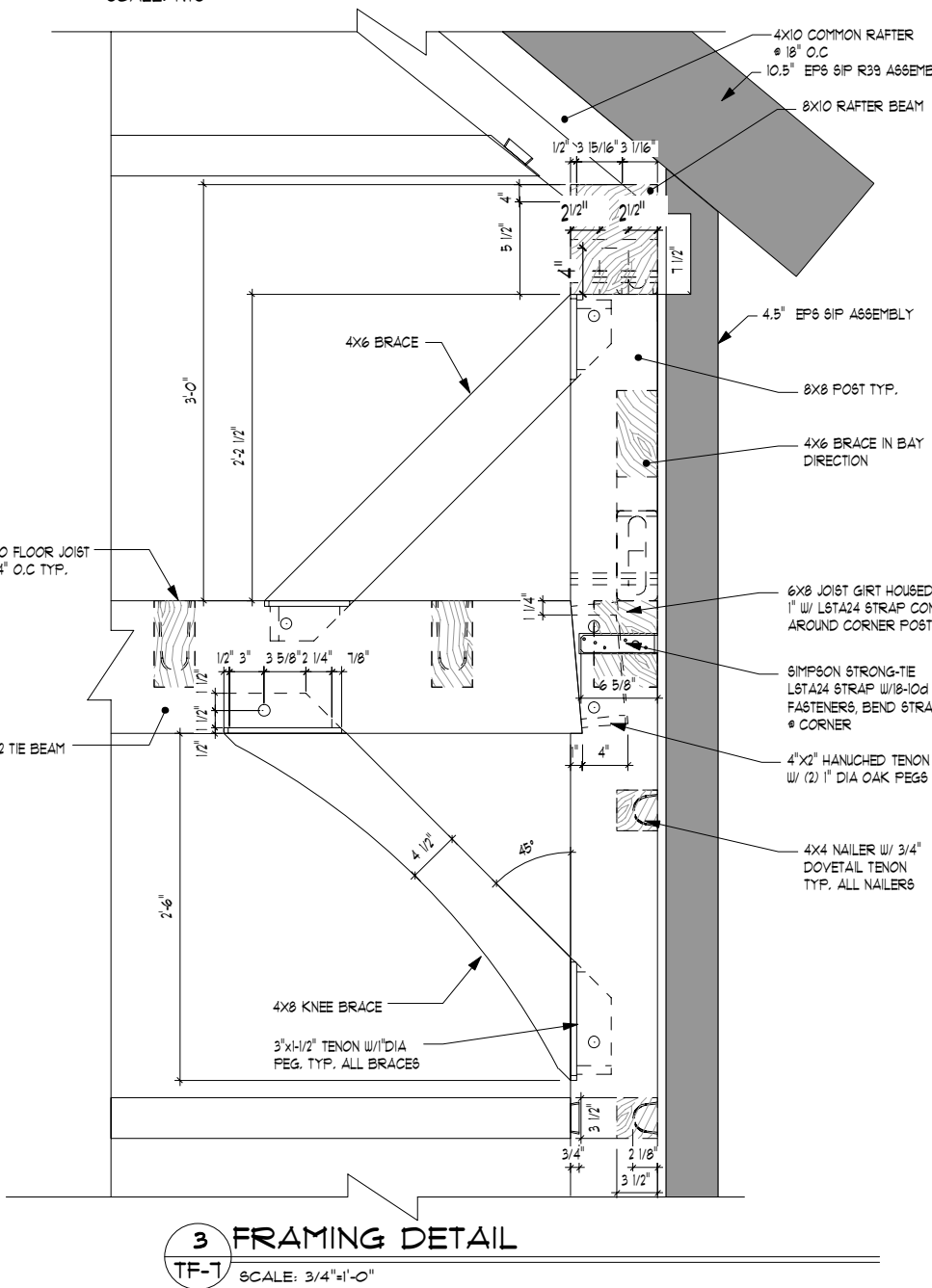
E. OBSERVATION: ALL EXCAVATION OF UNACCEPTABLE MATERIAL, INSTALLATION OF CONTROLLED FILL, COMPACTION, FIELD TESTING AND LABORATORY TESTING SHALL BE DONE UNDER THE SUPERVISION OF A TESTING LABORATORY WHO SHALL PROVIDE WRITTEN REPORTS OF ALL PHASES OF THE WORK TO THE ENGINEER.



ALL HANDRAILS, RISERS & TREADS TO MEET CODE REQUIREMENTS NO OPENINGS MORE THAN 4" DIAMETER

STAIR / HANDRAIL DETAILS

SCALE: NTS



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BUILDING CODE:  
THE MASSACHUSETTS BUILDING RESIDENTIAL  
CODE 180 CMR NINTH EDITION.

DESIGN NOTES:

DEAD LOADS: SECOND FLOOR: 15 PSF  
ROOF: 15 PSF

LIVE LOADS: SECOND FLOOR: 40 PSF  
ROOF: 20 PSF

SNOW LOADS: ROOF: 40 PSF

WIND LOADS: BASIC WIND SPEED(V): 111 MPH (3 SEC. GUST)

TIMBER NOTES:

SPECIES: EASTERN WHITE PINE  
GRADE: #2 OR BETTER  
SURFACE: S4S  
SIZING: 1/2" UNDER ROUGH DIM. (8X8 = 7.5"X7.5")  
CHAMFERS: (NONE)  
FINISH: (NONE)

FASTENER NOTES:

STEEL:  
- BOLTS, NUTS, WASHERS: DIA. AS NOTED, GALVANIZED, GRADE A307

TIMBER FRAME:

- TRADITIONAL MORTISE & TENON JOINERY W/ 1" DIA. OAK PEGS AT BEAM CONNECTIONS.  
- TRADITIONAL WOOD CONNECTIONS TO BE SUPPLEMENTED BY STRUCTURAL WOOD SCREWS AS NOTED.

NO.	DATE:	REVISIONS / SUBMISSIONS

SEAL:

PROJECT TITLE:  
**30'X30' CARRIAGE BARN KIT FOR:  
JOE & KATHY SALVADOR  
31 LAKE VIEW ROAD  
SHUTESBURY, MA 01072**

DRAWING TITLE:  
**NOTES & DETAILS**

DATE:	SCALE:
11-10-21	AS NOTED

DRWN BY:	TF-9 OF 10
MEB	
CHK BY: EWS	

PROJECT D:  
7230

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R- value in chart below is SIP Equivalent or Whole Surface. Panels must actually be that or higher to meet code. For explanation of reasoning see FPI Tech Bulletins on Relevant code

This is FPI's best attempt at interpreting the relavant codes, local enforcement has the final say in all situations.

These are the codes accessed 8/17/2020 as per <https://www.energycodes.gov/status-state-energy-code-adoption>

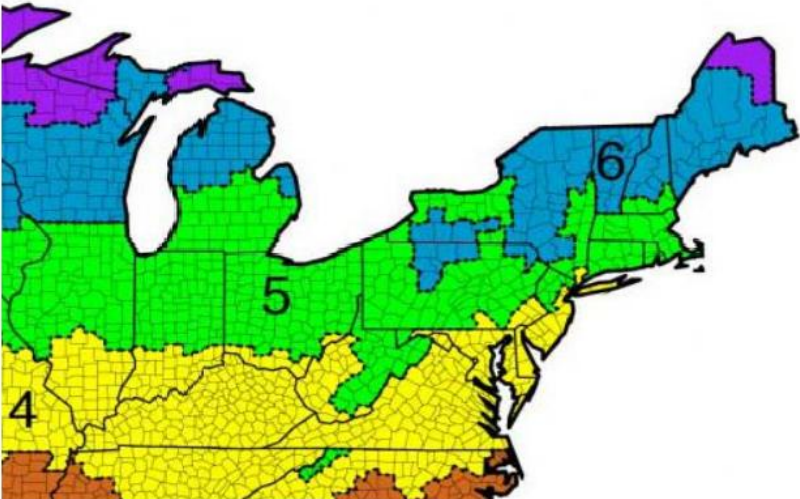


TABLE R402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT<sup>a</sup>

CLIMATE ZONE	FENESTRATION U-FACTOR <sup>a</sup>	SKYLIGHT <sup>b</sup> U-FACTOR	GLAZED FENESTRATION SHGC <sup>b,c</sup>	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE <sup>f</sup>	FLOOR R-VALUE	BASEMENT <sup>c</sup> WALL R-VALUE	SLAB <sup>d</sup> R-VALUE & DEPTH	CRAWL SPACE <sup>e</sup> WALL R-VALUE
1	NR	0.75	0.25	36	13	3/4	13	0	0	0
2	0.10	0.55	0.25	36	13	4/6	13	0	0	0
3	0.35	0.55	0.25	36	20 or 13+5 <sup>b</sup>	8/13	19	5/13 <sup>f</sup>	0	5/13
4 except Marine 4	0.35	0.55	0.40	45	20 or 13+5 <sup>b</sup>	8/13	19	10/13	10, 2 ft	10/13
5 and Marine 4	0.32	0.55	NR	45	20 or 13+5 <sup>b</sup>	13/17	30 <sup>g</sup>	15/19	10, 2 ft	15/19
6	0.32	0.55	NR	45	20+5 or 13+10 <sup>b</sup>	15/20	30 <sup>g</sup>	15/19	10, 4 ft	15/19
7 and 8	0.32	0.55	NR	45	20+5 or 13+10 <sup>b</sup>	19/21	38 <sup>g</sup>	15/19	10, 4 ft	15/19

STRUCTURAL INSULATED PANELS



SIP Properties at Standard Thicknesses											
Overall Thickness (in)		2.88	4.50	6.50	8.25	10.25	10.50	12.25	12.88	15.00	16.00
Core Thickness (in)		2.00	3.63	5.63	7.38	9.38	9.63	11.38	11.88	14.13	15.13
EPS	U-value @75°	0.115	0.067	0.043	0.034	0.027	0.026	0.022	0.021	0.018	0.017
	R-Value @75°	8.7	15	23	29	37	38	45	47	55	59
	R-Value @40°	9.4	16	25	32	40	41	49	51	60	65
	Permeance (perm)	.71	0.58	0.47	0.40	0.35	0.34	0.31	0.29	0.26	0.25
	Weight (lb/sqft)	3.0	3.1	3.3	3.4	3.6	3.6	3.7	3.8	4.0	4.1
	Size Availability 4ft Widths	4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, and 24ft									
	Size Availability 8ft Widths	8, 10, 12, 14, 16, 18, 20, and 24ft									
NEO	U-value @75°	0.010	0.056	0.037	0.028	0.022	0.022	0.019	0.018	0.015	0.014
	R-Value @75°	10	18	27	36	45	46	54	57	67	72
	R-Value @40°	11	19	29	38	48	49	58	61	72	77
	Permeance (perm)	0.61	0.46	0.36	0.30	0.25	0.24	0.21	0.21	0.18	0.17
	Weight (lb/sqft)	3.1	3.3	3.5	3.9	4.2	4.2	4.5	4.6	4.9	5.1
	Size Availability 4ft Widths	4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, and 24ft									
	Size Availability 8ft Widths	8, 10, 12, 14, 16, 18, 20, and 24ft									
PIR	U-value @75°	0.083	0.043	0.029	0.023	0.018	-	0.015	-	-	-
	R-Value	12	23	34	44	56	-	67	-	-	-
	Permeance (perm)	0.33	0.22	0.15	0.12	0.10	-	0.08	-	-	-
	Weight (lb/sqft)	3.1	3.4	3.7	4.0	4.4	-	4.7	-	-	-
	Size Availability 4ft Widths	4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, and 24ft									
	Size Availability 8ft Widths	8, 10, 12, 14, 16, 18, 20, and 24ft									

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MA LICENSE # 121550

BUILDING CODE:  
THE MASSACHUSETTS BUILDING RESIDENTIAL  
CODE 180 CMR NINTH EDITION.  
DESIGN NOTES:  
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FASTENER NOTES:  
STEEL:  
- BOLTS, NUTS, WASHERS: D/A. AS NOTED, GALVANIZED, GRADE A307  
TIMBER FRAME:  
- TRADITIONAL MORTISE & TENON JOINERY 3/4" 1" DIA. OAK PEGS AT BEAM CONNECTIONS.  
- TRADITIONAL WOOD CONNECTIONS TO BE SUPPLEMENTED BY STRUCTURAL WOOD SCREWS AS NOTED.

NO.	DATE:	REVISIONS / SUBMISSIONS

SEAL:

PROJECT TITLE:  
30'X30' CARRIAGE BARN KIT FOR:  
JOE & KATHY SALVADOR  
31 LAKE VIEW ROAD  
SHUTESBURY, MA 01072

DRAWING TITLE:  
3D RENDERING

DATE: 11-10-21	SCALE: AS NOTED
DRWN BY: MEB	TF-10 OF 10
CHK BY: EWS	
PROJECT D: T230	

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