



WESTWOOD BOARD OF APPEALS APPLICATION FOR HEARING

1. Name of Applicant: Bechara Demien
2. Applicant is (check one): Owner Tenant Licensee Abutter Prospective Purchaser Other
3. Mailing address of Applicant: 471 EAST ST Westwood MA 02090
4. Telephone - Home: 857-3528445 Business: 617 818 8357
5. E-Mail Address of Applicant: beckdamiana@yahoo.com
6. Address of Property subject to Hearing: 471 EAST ST Westwood MA 02090
7. Owner of Property: Bechara Demien
8. Mailing Address of Property Owner: 471 EAST ST Westwood MA 02090
9. Telephone - Home: 617-8188357 Business: 857-3528445
10. Deed recorded in: Norfolk County Registry of Deeds: Book # 27975 Page # 415
Or Land Court Registry: Certificate # _____ Book # _____ Page # _____
11. Property MAP # 23 LOT # 38 DISTRICT CR
12. Has an appeal/application ever been filed with the ZBA on this property? (Y/N) N If yes, when: _____
13. NATURE of Application (check one):
 - Appeal in accordance with MA G.L.Ch. 40A, Sec. 8 as amended
 - Special Permit in accordance with MA G.L.Ch.40A, Sec. 9 as amended
 - Variance in accordance with MA G.L. Ch. 40A, Sec. 10 as amended
 - When applying for a Special Permit under Section 9.3 of the Westwood Zoning Bylaw, please make sure that you and/or your attorney refer to the specific bylaw regarding this section.

STATE the EXACT NATURE of this application including the applicable section number(s) of the Westwood Zoning Bylaw:

Requesting special permit under Section
4.5.6 raising height and setback.
due to addition to a second story

Plan on a minimum of three months to complete the process.

I hereby request a hearing before the Westwood Board of Appeals with reference to the subject property.

I am aware that the cost of legal advertising will be billed to me directly as the Applicant, by the newspaper at a later date. I am also aware of the provisions in the Zoning Bylaw with regard to Reimbursement for Consultants, and I agree to reimburse the Board of Appeals and the Town of Westwood for all costs incurred by the Town or its' Boards for all fees, expenses and costs in connection with the review and evaluation of the Application for Special Permit and/or Variance.

I have reviewed the Zoning Board of Appeals Instructions and Information and understand the time requirements.

Signed: _____ Date: _____

APPLICANT'S SIGNATURE (or Agent)

*Hobart
Mey
11/22/2016*
Signed: *[Signature]* Date: 11/22/2016

PROPERTY OWNER (if different from applicant)

SCHEDULE OF FILING FEES FOR THE BOARD OF APPEALS

Residential Properties - \$165.00

Business Properties - \$330.00

Comprehensive Permits - \$2530.00

CHECKLIST:

- 6 copies of the Application
- 6 copies of the OPTIONAL Appendices (if completed)
- 6 copies of a Certified Plot Plan – size 11" x 17"
- 6 copies of the Building Plans (interior and/or exterior as applicable) – size 11" x 17"
- 6 copies of the Building Commissioner's denial of a building permit or equivalent

File the six (6) packets in the Town Clerk's office located at 580 High Street making sure to include a check for the filing fee in the correct amount.

Deliver one (1) electronic copy of the Application with attachments to the Office of the Board of Appeals at 50 Carby Street.

OPTIONAL

APPENDIX B - Special Permit Considerations

- The structure is in harmony with the general purpose and intent of the bylaw.

Yes The structure is in harmony with general purpose and intent of the bylaw please see attached pictures

- The structure is in an appropriate location and is not detrimental to the neighborhood and does not significantly alter the character of the zoning district.

The structure is in an appropriate location and is not detrimental to the neighborhood blend in with the neighborhood.

- Adequate and appropriate facilities will be provided for the proper operation of the proposed structure.

- The proposed structure will not be detrimental or offensive to the adjoining zoning districts and neighboring properties due to the effects of lighting, odors, smoke, noise, sewage, refuse material, visual or other nuisances.

We only adding second floor to the existing structure (residential)

- The proposed structure will not cause undue traffic congestion in the immediate area.

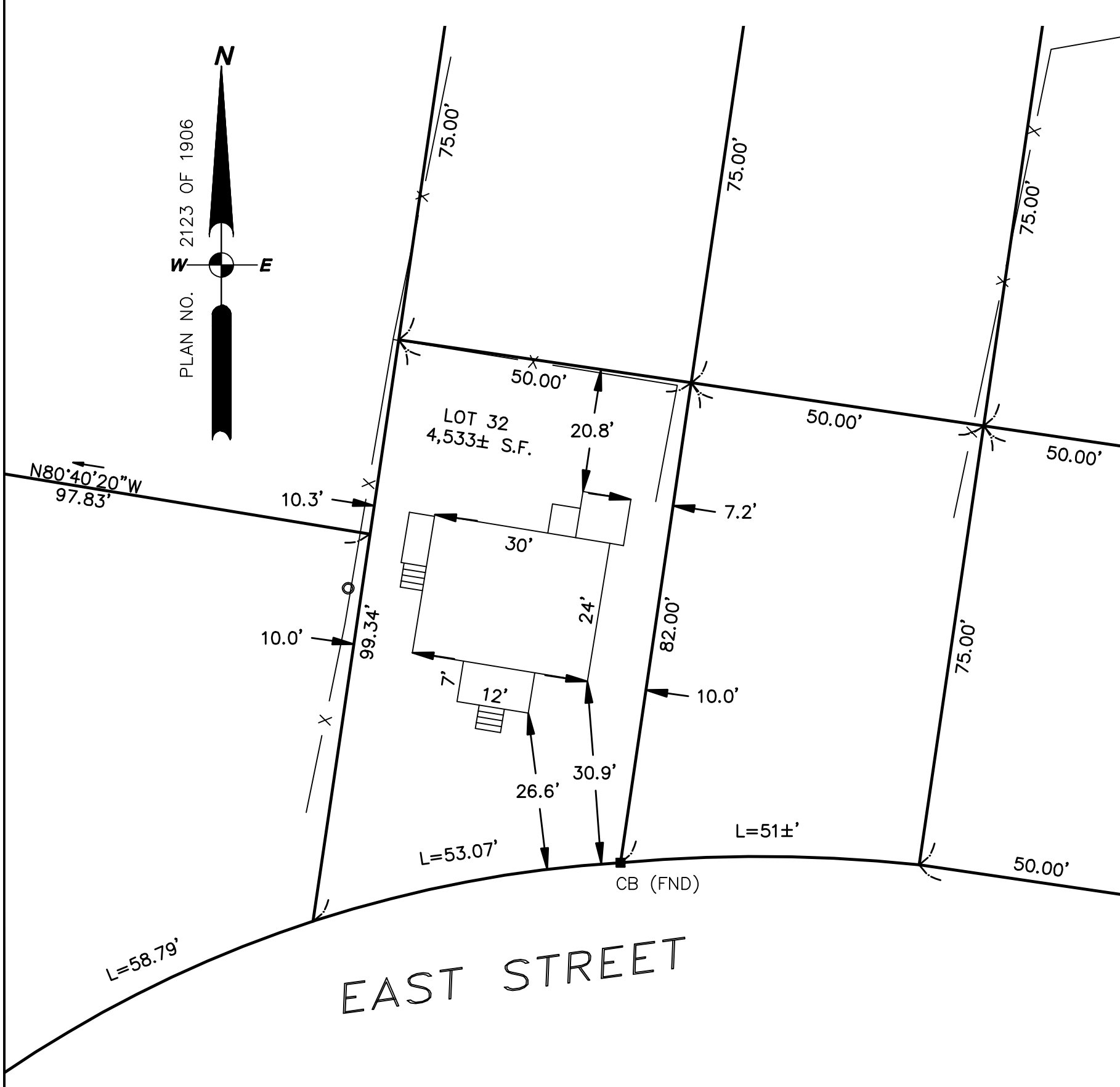
Not at all.

THE BUILDING OFFSETS AS SHOWN ON THIS PLAN ARE NOT TO BE USED FOR THE ESTABLISHMENT OF PROPERTY LINES OR FOR THE ESTABLISHMENT OF ANY PROPOSED CONSTRUCTION UNLESS SAID CONSTRUCTION IS SHOWN HEREON.

THIS PLAN WAS PREPARED FOR THE EXCLUSIVE USE AND PURPOSE FOR THE PARTY STATED HEREON AND SHALL NOT BE USED BY ANY THIRD PARTY WITHOUT THE EXPRESSED WRITTEN PERMISSION OF GUERRIERE AND HALNON, INC.

ZONE: GR
 AREA REQUIRED 12,000 S.F.
 FRONTAGE REQ 90.00'
 LOT WIDTH REQ 90.00'
 SETBACKS F-25' S-15' R-30'
 LOT IS PRE-EXISTING NON CONFORMING USE LOT DATES BACK TO JAN 20, 1906

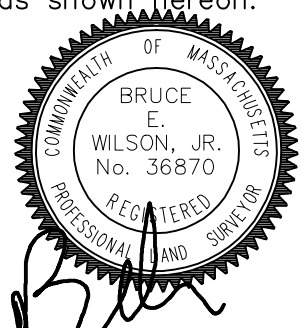
F-4011



CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

PREPARED FOR:
 BECHARA DEMIEN
 471 EAST STREET
 WESTWOOD, MA 02090

I certify that this plan was prepared from an on the ground survey and that the foundation is located on the lot as shown hereon.



BRUCE E. WILSON, JR. P.L.S. #36870
 Professional Land Surveyor Date

PLOT PLAN OF LAND IN WESTWOOD, MA

DATE : MAY 9, 2016
 SCALE : 1"=20'

GUERRIERE & HALNON INC.
 ENGINEERING AND LAND SURVEYING
 MILFORD ----- FRANKLIN ----- WHITINSVILLE
 55 WEST CENTRAL STREET FRANKLIN, MA 02038

F-4011



Commonwealth of Massachusetts

Manufactured Buildings Program

Transmittal Form for all correspondences relating to
Manufactured Buildings and Building Components

To: Linda McAlister Linda.McAlister@e.ma.us	Manufactured Buildings Program	Phone Number: 508-422-1955	Date Transmitted 11/8/16
Commonwealth of Massachusetts		Department of Public Safety	
Board of Building Regulations and Standards		50 Maple Street, Suite One	
Milford		Massachusetts	01757-3698

The person forwarding this material shall complete the following portion of this transmittal

Name of Person Transmitting Material	Brett Hebert	MC Number 352	TPIA Number 02
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The following information is being transmitted to the Board of Building Regulations and Standards and / or the Department of Public Safety for reasons detailed below (Please check the appropriate box or give a further description of the transmitted items under the section labeled <i>other</i> . Be sure to identify the appropriate Use Group.)	Please indicate the Distinct Model and / or Serial Number pertaining to transmitted items	Use Group

Building Plans for Review and Approval	<input type="checkbox"/>		
Building Plans forwarded as a record copy for your files (Review not required)	<input checked="" type="checkbox"/>	ON#6540	R-3
Revised building plans for review. (Please clearly identify revisions on the plans.)	<input type="checkbox"/>		
Revised Building Plans forwarded as a record copy for your files (Review not required - Please clearly identify revisions on the plans.)	<input type="checkbox"/>		

Compliance Assurance Programs	Original Submission <input type="checkbox"/>	Modification to: _____	<input type="checkbox"/>
Calculations Manual	Original Submission <input type="checkbox"/>	Modification to: _____	<input type="checkbox"/>
Installation Manual	Original Submission <input type="checkbox"/>	Modification to: _____	<input type="checkbox"/>
Systems Drawings	Original Submission <input type="checkbox"/>	Modification to: _____	<input type="checkbox"/>

Other - Provide a detailed description of any other materials which are being transmitted. **Identify any revisions clearly along with BBRS number.**
Also, identify the requested action.


Site Location: 471 EAST STREET, WESTWOOD, MA 02090 (NORFOLK COUNTY)

The office transmitting this information has reviewed the above mentioned and attached materials and has found them, to the best of our knowledge and abilities, to be in compliance with the codes and \ or rules and regulations for the Commonwealth of Massachusetts' Manufactured Building Program, as applicable

Signed By for TPIA:		BBRS No: assigned by Mass.	Signed By for MASS:	
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Print Form

Public View

 Owner Dashboard

471 East St
Westwood, MA 02090
Status: Sold

\$315,256
Redfin Estimate

\$250,000
Sold Aug 30, 2010

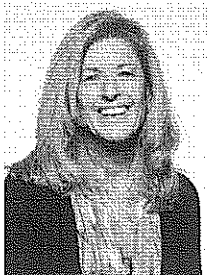
2
Beds

1
Bath

804 Sq. Ft.
\$392 / Sq. Ft.
Built: 1937



Street View



Nancy Schiff
REDFIN Real Estate Agent



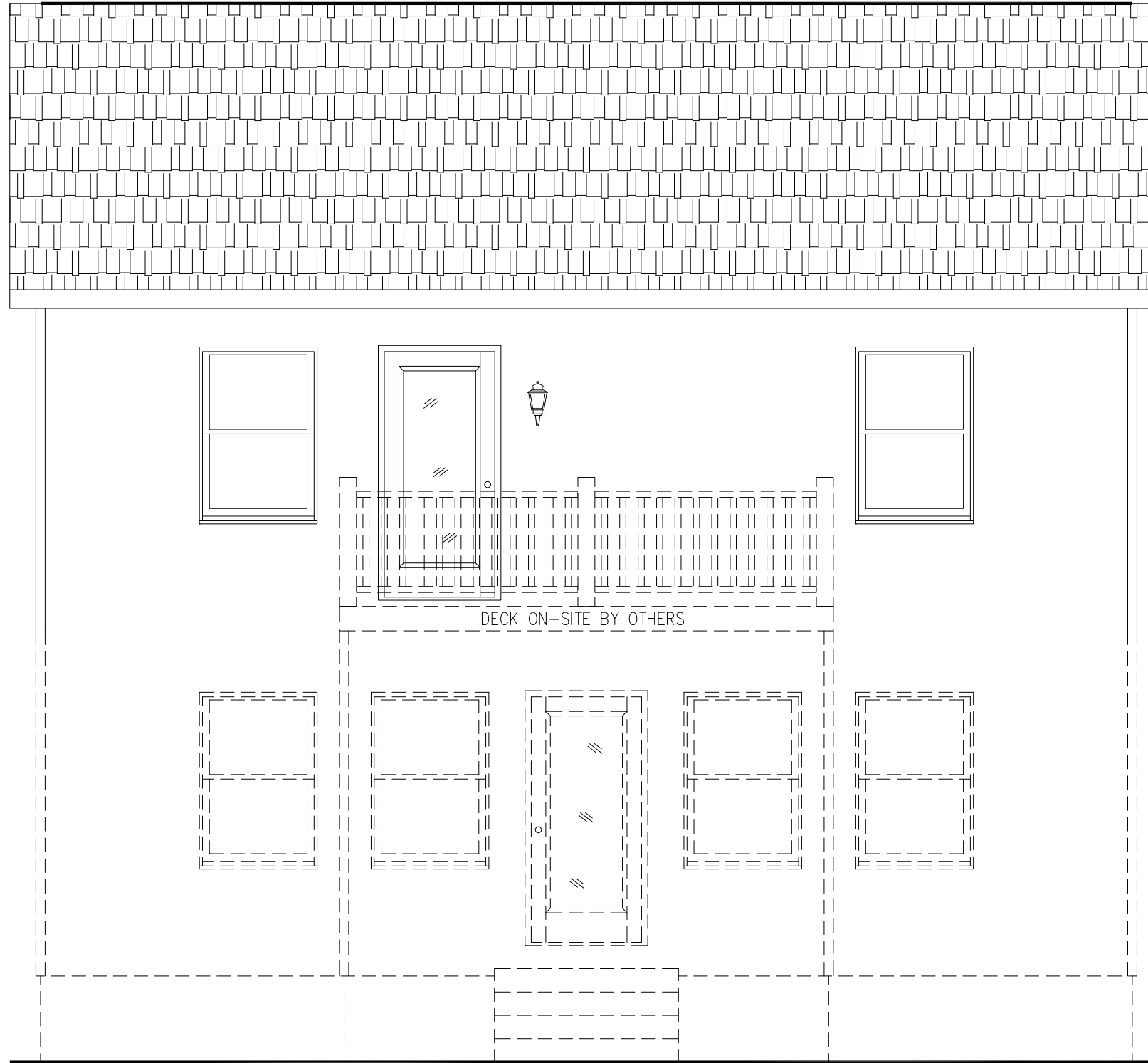
346 client reviews



REVIEW ONLY

Date: 11/14/16

PFS CORPORATION
Bloomsburg, PA



FRONT ELEVATION

THIS BUILDING HAS BEEN EXTRACTED FROM AN APPROVED SYSTEMS OR PER MODEL APPROVAL
JLA

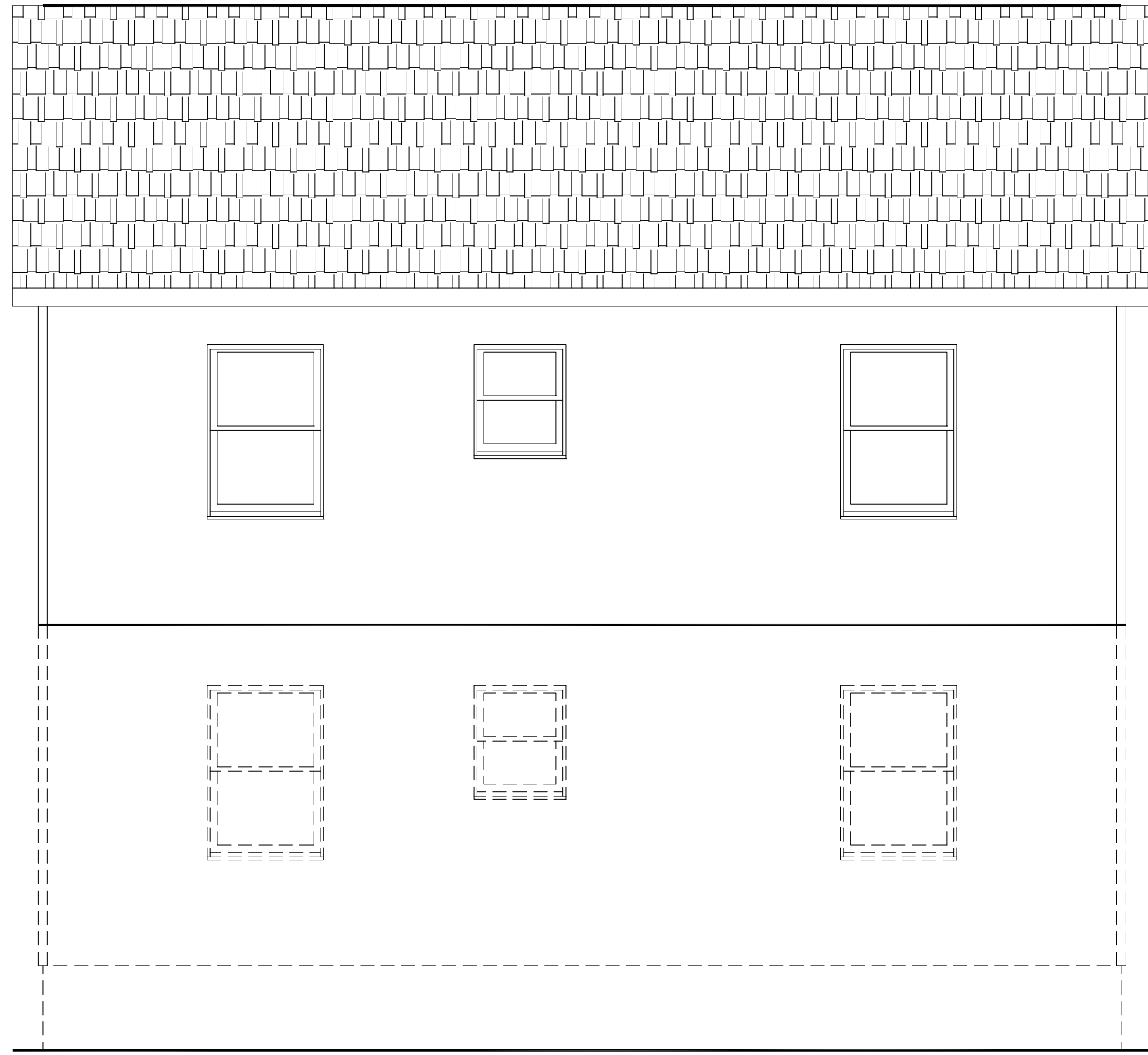
SERIAL # / ORDER #
O#6540

PAGE #:
EV1

BUILDER: AVALON BUILDING SYSTEMS HOMEOWNER/PROJECT: DEMIEN BACHARA ADDRESS: 471 EAST STREET CITY: WESTWOOD COUNTY: NORFOLK ORDER NO: 6540 STATE: MA ZIP: 02090 SNOW LOAD (LBS): 40 WIND SPEED (MPH): 100 SFT: 742 TYPE: TWO STORY FILE NAME: O#6540		REVISION PRELIM FINAL	DATE 6/21/16 11/1/16	BY JBG PIF
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SELINGROVE, PA 17870
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REAR ELEVATION

EXISTING 1ST FLOOR CEILING HEIGHT 8'-6"

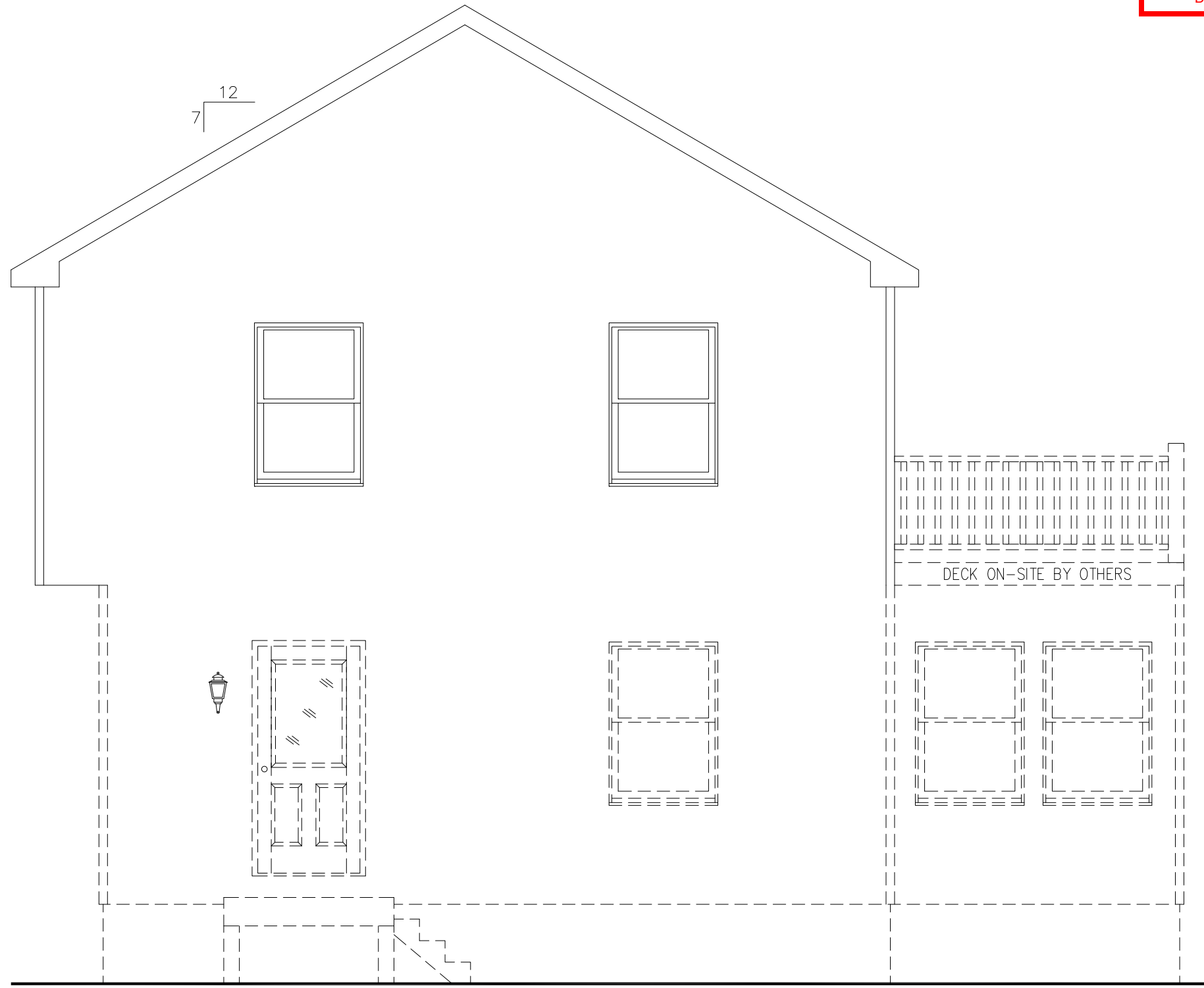
8'-0" CEILING HEIGHT

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JLA

SERIAL # / ORDER #
O#6540

PAGE #:
EV2

BUILDER: AVALON BUILDING SYSTEMS HOMEOWNER/PROJECT: DEMIEN BACHARA ADDRESS: 471 EAST STREET CITY: WESTWOOD COUNTY: NORFOLK ORDER NO: 6540 STATE: MA ZIP: 02090 SNOW LOAD (LBS): 40 WIND SPEED (MPH): 100 SFT: 742 TYPE: TWO STORY FILE NAME: O#6540		DATE: 6/21/16 REVISION: PRELIM BY: JBG
DATE: 11/1/16 REVISION: FINAL BY: PIF	246 SAND HILL ROAD SELINSGROVE, PA 17870 PHONE: (570) 374-3280 FAX: (570) 374-1122 WWW.ICONLEGACY.COM 	



LEFT SIDE ELEVATION



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 FAX: (570) 374-1122
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DATE	REVISION	BY
6/21/16	PRELIM	JBG
11/1/16	FINAL	PIF

BUILDER	AVALON BUILDING SYSTEMS		
HOMEBUYER/PROJECT	DEMEN BACHARA		
ADDRESS	471 EAST STREET		
CITY	STATE	ZIP	
WESTWOOD	MA	02090	
COUNTY	SNOW LOAD (LBS)	WIND SPEED (MPH)	
NORFOLK	40	100	
ORDER NO	SERIAL NO	TYPE	
6540	742	TWO STORY	
FILE NAME	O#6540		

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 JLA

SERIAL # / ORDER #
O#6540

PAGE #
EV3



RIGHT SIDE ELEVATION

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REVISION	DATE	BY
PRELIM	6/21/16	JBG
FINAL	11/1/16	PIF

BUILDER	AVALON BUILDING SYSTEMS
HOMEOWNER/PROJECT	DEMEN BACHARA
ADDRESS	471 EAST STREET
CITY	WESTWOOD
COUNTY	NORFOLK
ORDER NO	6540
STATE	MA
ZIP	02090
SNOW LOAD (LBS)	40
WIND SPEED (MPH)	100
SFT	742
TYPE	TWO STORY
FILE NAME	O#6540

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 JLA

SERIAL # / ORDER #
O#6540

PAGE #
EV4

A 48 HOUR NOTIFICATION IS REQUIRED PRIOR TO THE SET. THE CSL ON RECORD WILL RELAY THIS TO THE LOCAL BUILDING AUTHORITY. IF ANY CONNECTIONS HAVE BEEN CONCEALED PRIOR TO INSPECTION, THE BUILDING OFFICIAL MAY REQUEST HAVING THE REMOVAL OF ELEMENTS THAT CONCEAL THE CONNECTIONS TO PROVIDE ACCESS. THIS WOULD NOT CONSTITUTE 'DESTRUCTIVE DISASSEMBLY'. ALL CONNECTIONS ON SITE MUST BE INSPECTED BY THE LOCAL AUTHORITY.

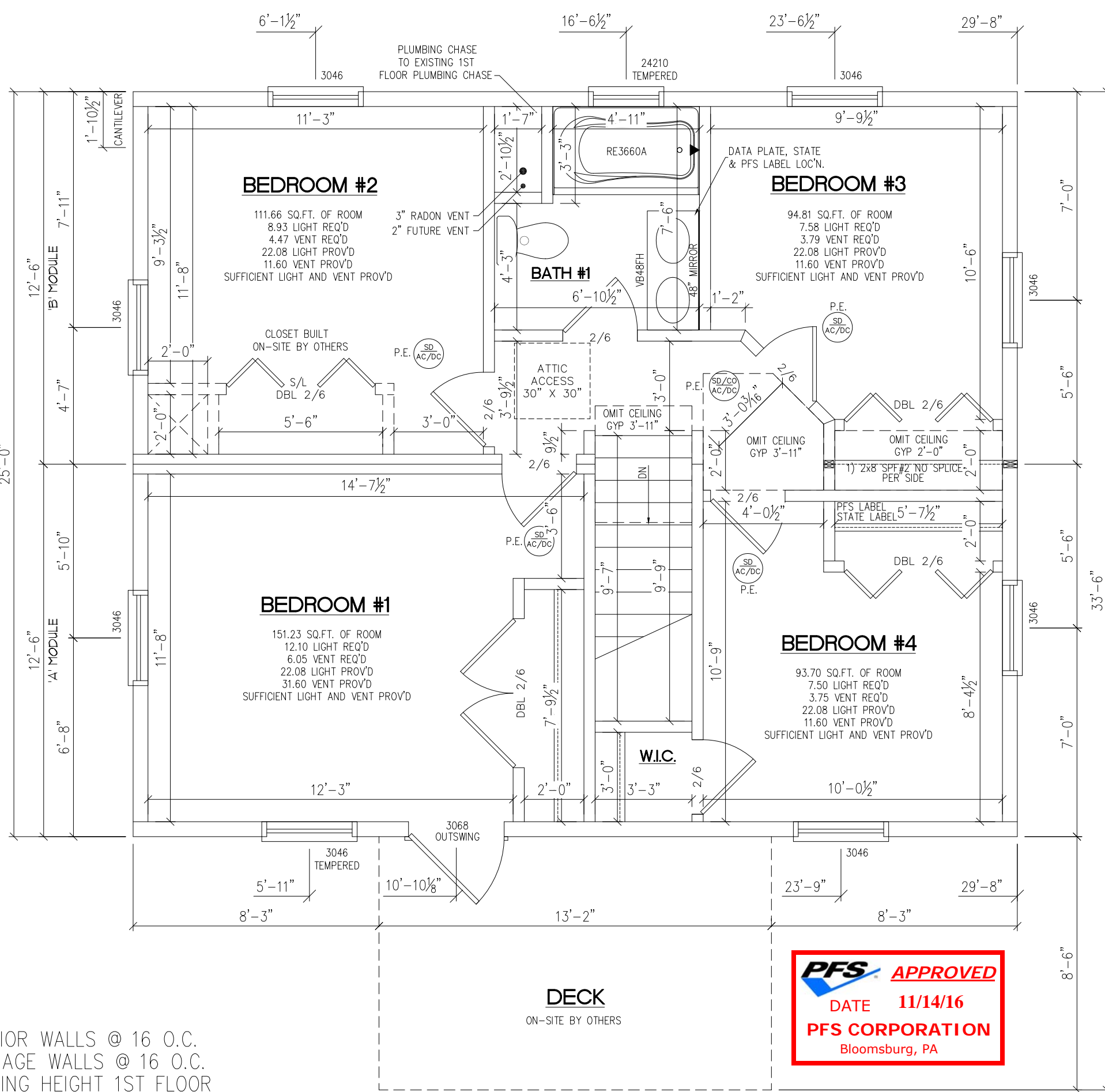
ALL CEILING GYP MUST BE MECHANICALLY FASTENED

BUILDER TO INSTALL & SUPPLY WHOLE HOUSE VENTILATION & TO BE APPROVED & INSPECTED ON-SITE BY LOCAL BUILDING OFFICIAL DUCT TIGHTNESS AND BLOWER DOOR TESTING DONE ON-SITE BY BUILDERS' HERS RATER

*BUILDER IS RESPONSIBLE TO COMPLY WITH R612.2 (WINDOW SILLS) OF THE 2009 IRC (DONE ON-SITE IF APPLICABLE)
 -WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72 INCHES ABOVE THE FINISHED GRADE OR SURFACE BELOW
 -WHERE THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES ABOVE THE FINISHED FLOOR IN WHICH THE WINDOW IS LOCATED
 -OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW PASSAGE OF A 4 INCH DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES OF THE FINISHED FLOOR

NOTES:

1. 2X6 EXTERIOR WALLS @ 16 O.C.
2. 2X4 MARRIAGE WALLS @ 16 O.C.
3. 8'-0" CEILING HEIGHT 1ST FLOOR
4. SILVERLINE 3000 SERIES DOUBLE HUNG WINDOWS
5. 31,000 TOTAL BTU HEAT LOSS
6. 7/12 NON-STORAGE RAFTER @ 16 O.C.



BUILDER TO VERIFY ALL LOCATIONS MATCH WITH EXISTING 1ST FLOOR BELOW

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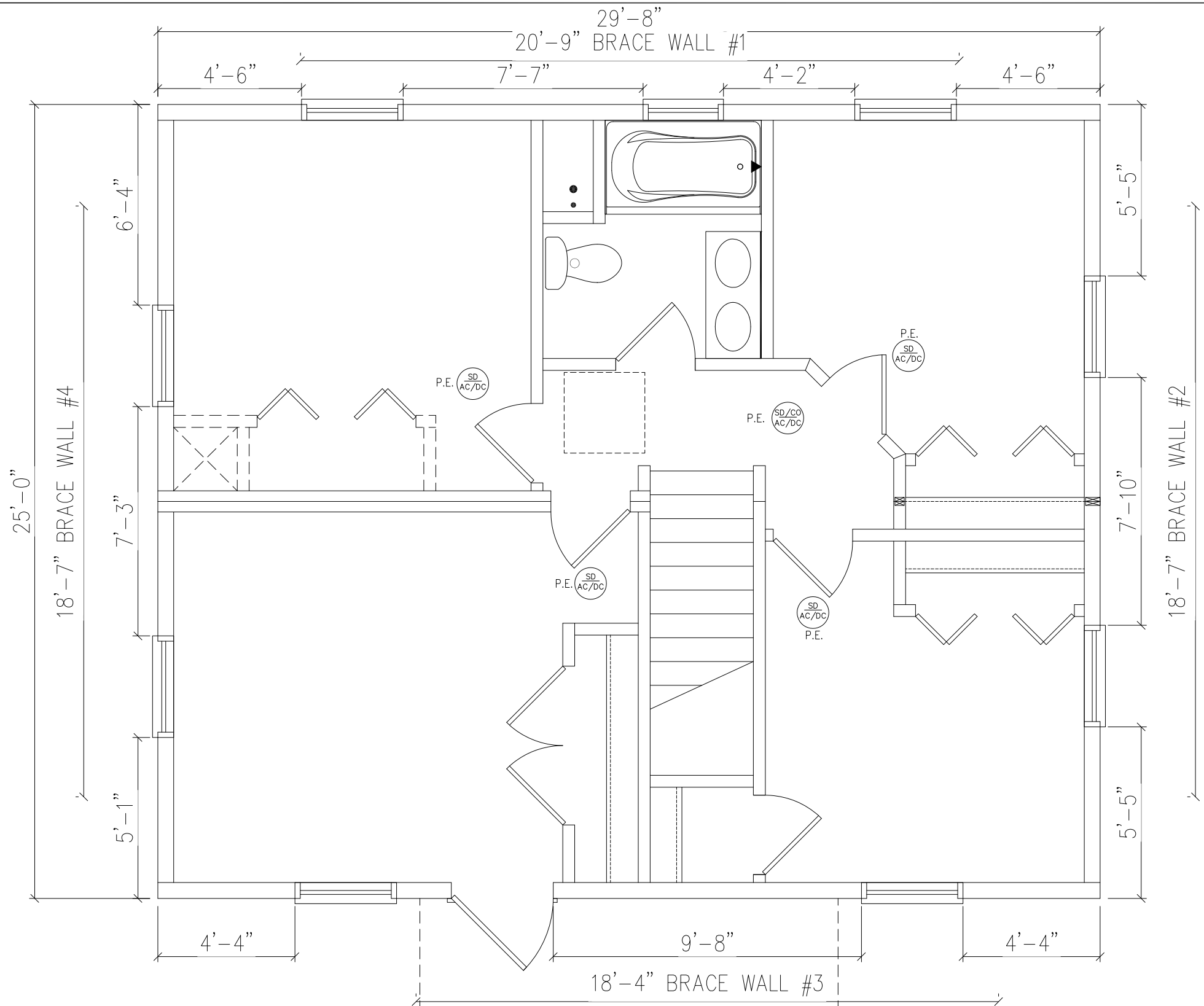
SITE ADDRESS
 471 EAST STREET
 WESTWOOD, MA 02090
 NORFOLK COUNTY

BUILDER:
 3 PORTER ST. UNIT 201
 STOUGHTON, MA 02072

NO LOT FIRE FIRE SEPARATION REQUIRED

MA STATE BUILDING CODE -(780 CMR) 8TH EDITION
 MA FUEL/GAS/PLUMBING (248 CMR)
 2009 INTERNATIONAL MECHANICAL CODE W/ MA AMENDMENTS
 2014 NATIONAL ELECTRICAL CODE W/ MA AMENDMENTS
 2012 INTERNATIONAL ENERGY CONS. CODE W/ MA AMENDMENTS

BUILDER: AVALON BUILDING SYSTEMS PROJECT: DEMIEN BACHARA ADDRESS: 471 EAST STREET CITY: WESTWOOD COUNTY: NORFOLK ORDER NO: 6540 FILE NAME: O#6540		ZIP: 02090 WIND SPEED (MPH): 100 TYPE: TWO STORY	BY: JBG PIF
DATE	REVISION		
6/21/16	PRELIM		
11/1/16	FINAL		
246 SAND HILL ROAD SELINGSGROVE, PA 17870 PHONE: (570) 374-3280 FAX: (570) 374-1122 WWW.ICONLEGACY.COM Make plans with us.			
2ND STORY FLOOR PLAN		SERIAL #/ ORDER # O#6540	PAGE # FP1



16 GAUGE 1 3/4" STAPLES @ 3" & 6" O.C.

METHOD	BRACE	WIND SPEED	BRACE WALL	CONTINUOUS SHEATHING	EXPOSURE/HEIGHT FACTORS	ROOF EAVE TO RIDGE	NUMBER OF BRACE	WALL REDUCTION	LENGTH REQUIREMENTS FOR	FULL HEIGHT
TYPE	WALL	100	LINE SPACING	REQUIRED R602.10.3.2(1)	EXPOSURE B R602.10.3.2(2)	HEIGHT	WALL LINES	FACTOR	BRACE WALL PANELS WITH	SHEATHING PROVIDED
	LINE				1.0	8 FT R602.10.3.2		0.9	CONTINUOUS SHEATHING	
CS-WSP	29.667	BRACE WALL #1	25	5.750	5.750 X 1.0 = 5.750	7.000 X 0.9 = 6.300	5.060 X 1.00 = 5.060	5.060 X 0.90 = 4.554	24 "	20.75 Feet
CS-WSP	25	BRACE WALL #2	29.667	7.000	7.000 X 1.0 = 7.000	7.000 X 0.9 = 6.300	6.160 X 1.00 = 6.160	6.160 X 0.90 = 5.544	24 "	18.58 Feet
CS-WSP	29.667	BRACE WALL #3	25	5.750	5.750 X 1.0 = 5.750	5.750 X 0.9 = 5.175	5.060 X 1.00 = 5.060	5.060 X 0.90 = 4.554	35 "	18.33 Feet
CS-WSP	25	BRACE WALL #4	29.667	7.000	7.000 X 1.0 = 7.000	7.000 X 0.9 = 6.300	6.160 X 1.00 = 6.160	6.160 X 0.90 = 5.544	24 "	18.58 Feet

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SERIAL #/ ORDER #
O#6540

PAGE #
SW1

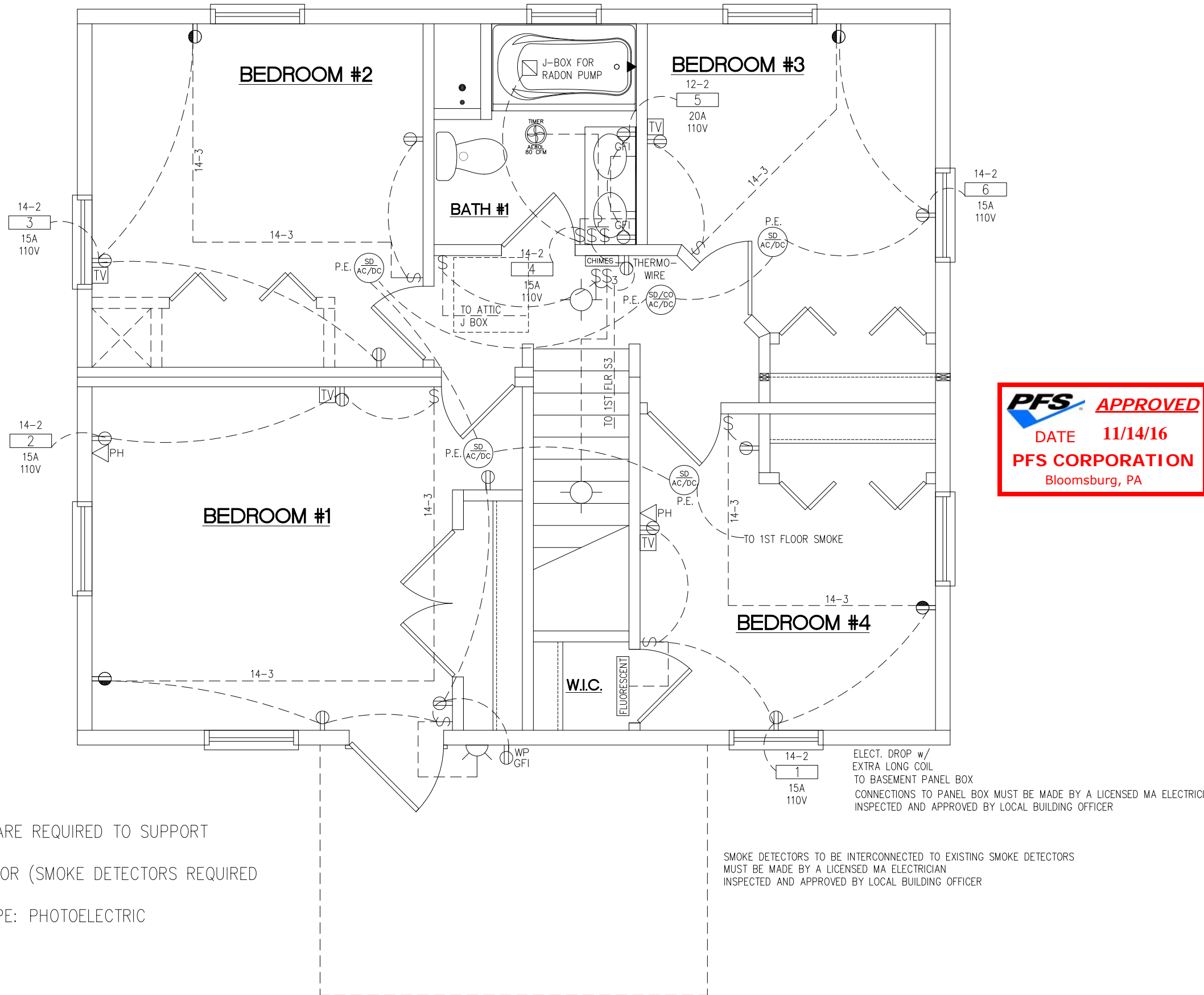
BUILDER: AVALON BUILDING SYSTEMS
 HOMEOWNER/PROJECT: DEMIEN BACHARA
 ADDRESS: 471 EAST STREET
 CITY: WESTWOOD
 STATE: MA
 COUNTY: NORFOLK
 ZIP: 02090
 SNOW LOAD (LBS): 40
 WIND SPEED (MPH): 100
 ORDER NO: 6540
 SERIAL NO: 742
 FILE NAME: O#6540

1ST STORY SHEAR WALLS

REVISION: PRELIM, FINAL
 DATE: 6/21/16, 11/1/16
 BY: JBG, PIF

ICON LEGACY
 CUSTOM MODULAR HOMES LLC
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 SELINS GROVE, PA 17870
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50# LIGHT BOXES ARE REQUIRED



- NOTES:
1. INSULATED STAPLES ARE REQUIRED TO SUPPORT ALL WIRING
 2. 742 SQ. FT. PER FLOOR (SMOKE DETECTORS REQUIRED EVERY 1,200 SQ. FT.)
 3. SMOKE DETECTOR TYPE: PHOTOELECTRIC

ALL 125-VOLT, 15-20 AMPERE RECEPTS INSTALLED IN AREAS SPECIFIED BY 210.52 SHALL BE LISTED TAMPER-RESISTANT TYPE.

ALL BRANCH CIRCUITS SUPPLYING 15 AND 20 AMPERE OUTLETS ARE TO BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH THE 2014 NEC

ELECT. DROP w/ EXTRA LONG COIL TO BASEMENT PANEL BOX
CONNECTIONS TO PANEL BOX MUST BE MADE BY A LICENSED MA ELECTRICIAN INSPECTED AND APPROVED BY LOCAL BUILDING OFFICER

SMOKE DETECTORS TO BE INTERCONNECTED TO EXISTING SMOKE DETECTORS
MUST BE MADE BY A LICENSED MA ELECTRICIAN INSPECTED AND APPROVED BY LOCAL BUILDING OFFICER

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PRELIM	6/21/16	JBG
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BUILDER	AVALON BUILDING SYSTEMS
HOMEOWNER/PROJECT	DEMIEEN BACHARA
ADDRESS	471 EAST STREET
CITY	WESTWOOD
COUNTY	NORFOLK
STATE	MA
ZIP	02090
SNOW LOAD (LBS)	40
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SERIAL NO	
TYPE	TWO STORY
FILE NAME	O#6540

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PAGE #	EL1

2ND STORY ELECTRICAL PLAN

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ELECTRICAL LOAD CALCULATION FOR ON#6540-MA

HOUSE SQFT:	742
AIR CONDITIONING AND HEAT	
AIR CONDITIONING:	0 WATTS
CENTRAL ELECTRIC SPACING HEATING:	0 WATTS (X 0.65)
LESS THAN FOUR SEPARATELY CONTROLLED ELECTRIC SPACE HEATING UNITS:	0 WATTS (X 0.65)
FOUR OR MORE SEPARATELY CONTROLLED ELECTRIC SPACE HEATING UNITS:	0 WATTS (X 0.45)

*NOTE: USE THE LARGER OF THE AIR CONDITIONING OR THE DIVERSIFIED DEMAND OF THE HEATING LOAD.

OTHER LOADS	WATTS OR VOLT-AMPS	CIRCUIT AMPACITY	WIRE SIZE
GENERAL LIGHTING: (742 x 3)	2,226	15A	14-2
SMALL APPLIANCES: (0 x 1,500)	0	N/A	N/A
RANGE:	0	N/A	N/A
DISHWASHER:	0	N/A	N/A
GARBAGE DISPOSAL:	0	N/A	N/A
WASHER:	0	N/A	N/A
DRYER:	0	N/A	N/A
FURNACE:	0	N/A	N/A
WATER HEATER:	0	N/A	N/A
	2,226		

FIRST 10kW OF OTHER LOADS @ 100%:	=	2,226
REMAINDER OF OTHER LOADS @ 40%: (0 x 0.40)	=	0
AIR CONDITIONING OR HEAT FROM ABOVE:	=	0
TOTAL CALCULATED LOAD::	=	2,226
REQUIRED SERVICE SIZE:	=	9 AMPS
INSTALLED PANEL SIZE:	=	200 AMPS



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Make plans with us.

BY	REVISION	DATE

BUILDER: AVALON BUILDING SYSTEMS	STATE: MA	ZIP: 02090
HOMEOWNER/PROJECT: DEMIEN BACHARA	CITY: WESTWOOD	COUNTY: NORFOLK
ADDRESS: MAIN STREET	SNOW LOAD (LBS):	WIND SPEED (MPH):
ORDER NO: 6540	SQFT:	TYPE:
SERIAL NO:	FILE NAME: O#6540	

CIRCUIT SCHEDULE

*WIRE WITH GROUND ALL CIRCUITS

CRT	BRK	WIRE	LOCATION	VOLT	CRT	BRK	WIRE	LOCATION	VOLT
1	15A	14-2	BEDRRM#4	110	2	15A	14-2	BEDROOM#1	110
3	15A	14-2	BEDROOM#2	110	4	15A	14-2	GENERAL LIGHTING	110
5	20A	12-2	BATH GF1	110	6	15A	14-2	BEDRRM#3	110
7					8				
9					10				
11					12				
13					14				
15					16				
17					18				
19					20				
21					22				
23					24				
25					26				
27					28				
29					30				
31					32				
33					34				
35					36				
37					38				
39					40				

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BY	REVISION	DATE

BUILDER: AVALON BUILDING SYSTEMS		STATE: MA	ZIP: 02090
PROJECT: DEMIEN BACHARA		SNOW LOAD (LBS):	WIND SPEED (MPH):
ADDRESS: MAIN STREET		SOFT	TYPE
CITY: WESTWOOD	COUNTY: NORFOLK	ORDER NO: 6540	SERIAL NO:
FILE NAME: O#6540			



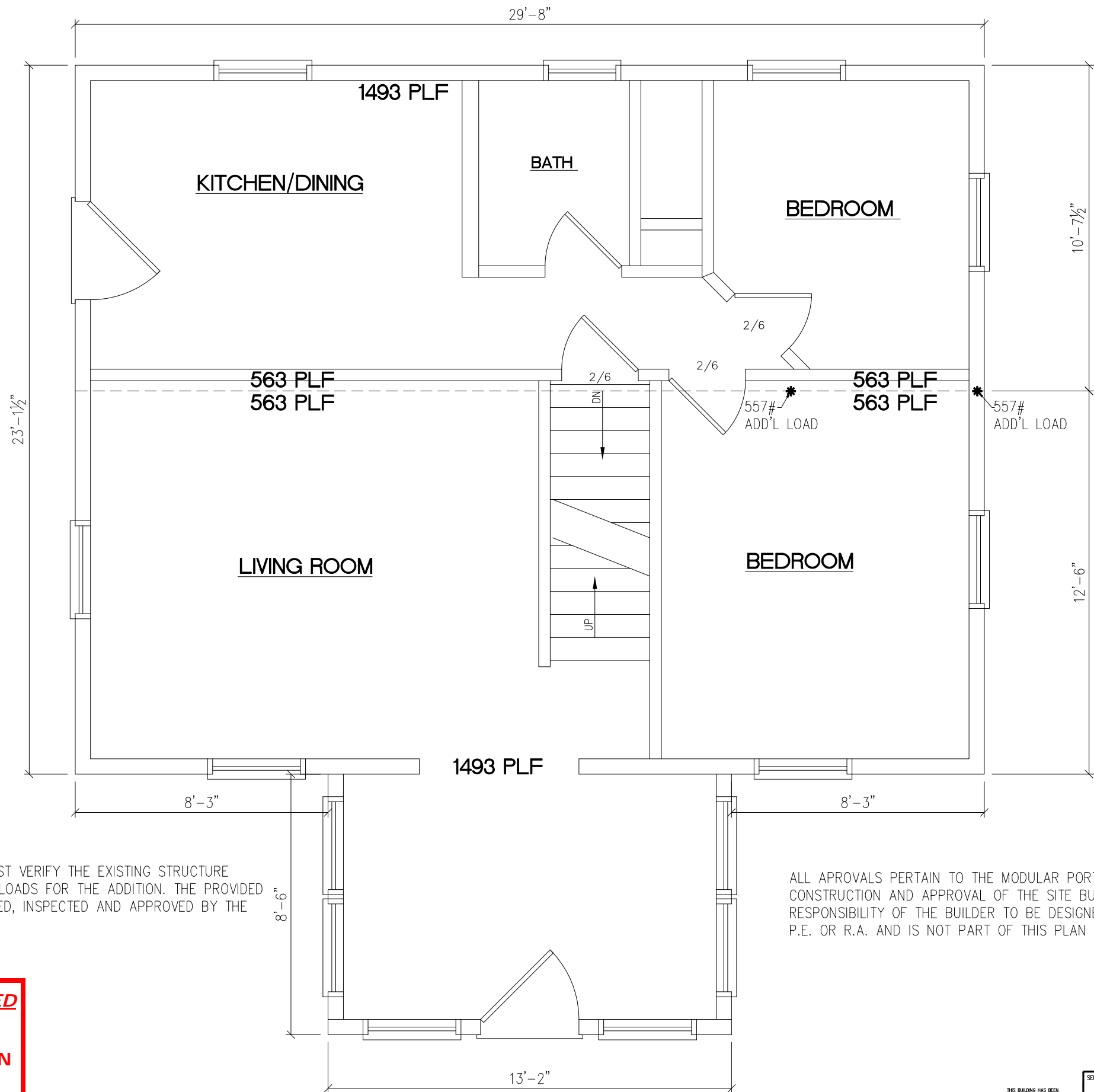
CIRCUIT SCHEDULE

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O#6540

PAGE #:
CS

BUILDER TO PROVIDE UPLIFT CONNECTIONS BETWEEN THE EXISTING STRUCTURE AND MODULES AT THE REQUIRED LOCATIONS FOR THE LOADS LISTED.



MA LICENSED P.E. OR R.A. MUST VERIFY THE EXISTING STRUCTURE CAN SUPPORT THE INDICATED LOADS FOR THE ADDITION. THE PROVIDED INFORMATION MUST BE REVIEWED, INSPECTED AND APPROVED BY THE LOCAL BUILDING OFFICIAL.

ALL APPROVALS PERTAIN TO THE MODULAR PORTION ONLY. ALL DESIGN, CONSTRUCTION AND APPROVAL OF THE SITE BUILT PORTIONS ARE THE RESPONSIBILITY OF THE BUILDER TO BE DESIGNED BY A MA LICENSED P.E. OR R.A. AND IS NOT PART OF THIS PLAN SET APPROVAL.

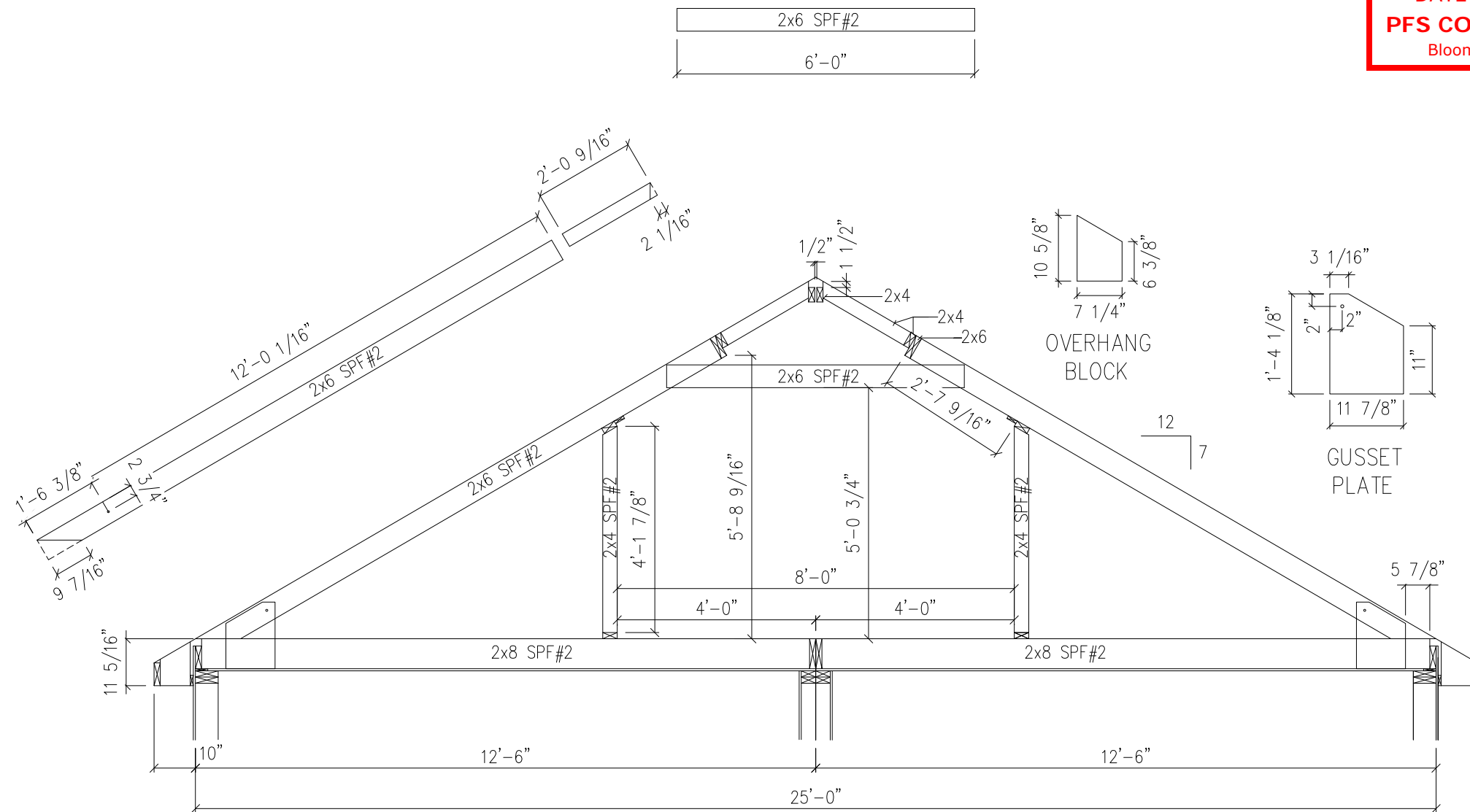


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SERIAL # / ORDER #
O#6540

PAGE #
FND

246 SAND HILL ROAD SELINSGROVE, PA 17870 PHONE: (570) 374-3280 FAX: (570) 374-1122 WWW.ICONLEGACY.COM	
BY	JBG
REVISION	PIF
DATE	6/21/16
REVISION	PRELIM
DATE	11/1/16
REVISION	FINAL
BUILDER	AVALON BUILDING SYSTEMS
HOMEOWNER/PROJECT	DEMEN BACHARA
ADDRESS	471 EAST STREET
CITY	WESTWOOD
STATE	MA
ZIP	02090
COUNTY	NORFOLK
SNOW LOAD (LBS)	40
WIND SPEED (MPH)	100
TYPE	TWO STORY
ORDER NO	6540
SERIAL NO	742
FILE NAME	O#6540
EXISTING 1ST FLOOR	



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**7/12 - 25'-0" WIDE - GOOD TO 40#GSL - 16" O.C.
NON-STORAGE RAFTER**

THIS TRUSS DESIGN MAY BE USED FOR LESSER SPANS PROVIDED
NO MEMBER HAS A GREATER LENGTH AND ALL CONNECTIONS ARE AS SPECIFIED.

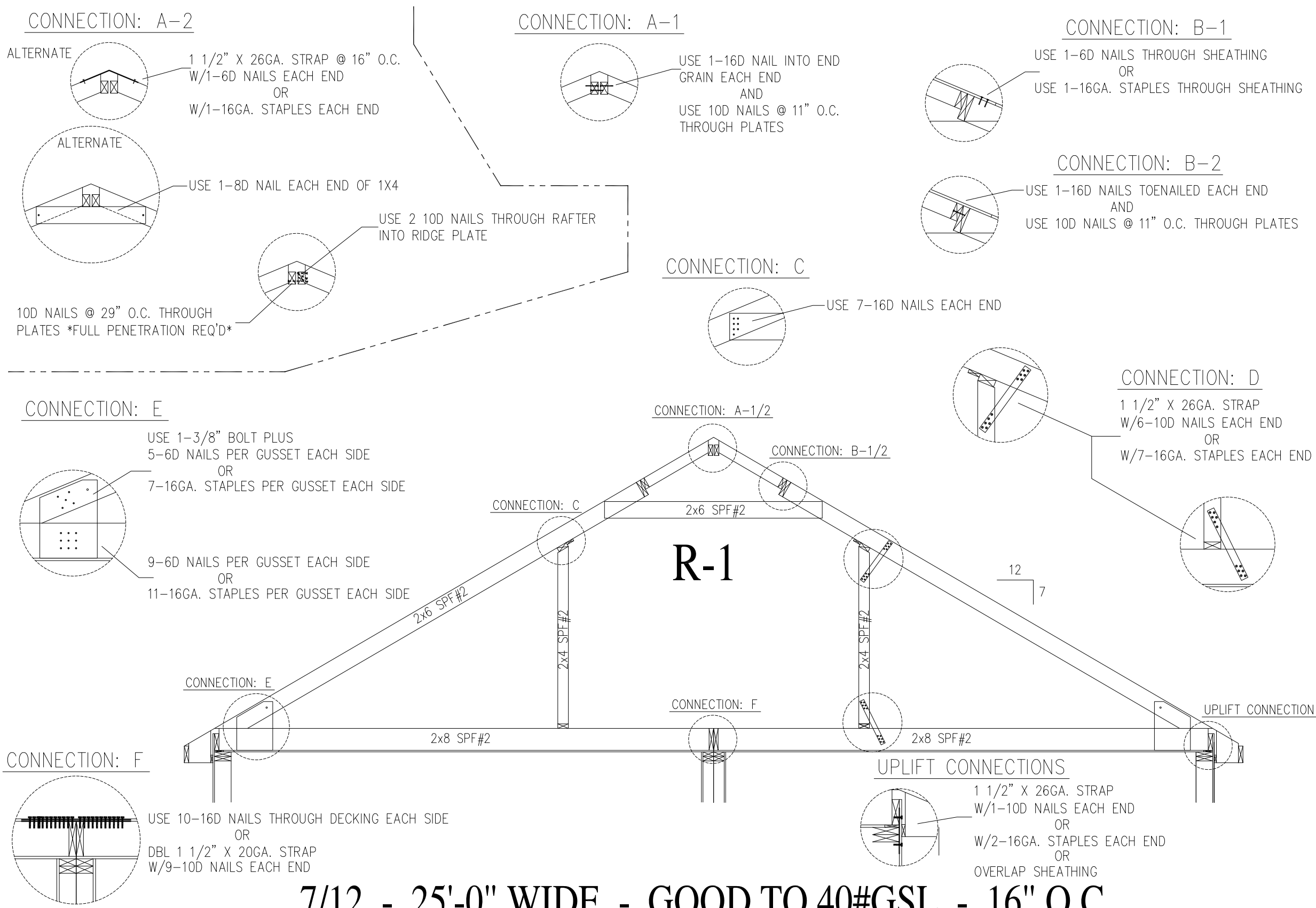
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SYSTEMS OR PER MODEL APPROVAL
JLA

SERIAL # / ORDER #
O#6540

PAGE #
TR1

DATE	6/21/16	REVISION	PRELIM	BY	JBG
DATE	11/1/16	REVISION	FINAL	BY	PIF
BUILDER	AVALON BUILDING SYSTEMS				
HOMEOWNER/PROJECT	DEMIEB BACHARA				
ADDRESS	471 EAST STREET				
CITY	WESTWOOD	STATE	MA	ZIP	02090
COUNTY	NORFOLK	SNOW LOAD (LBS)	40	WIND SPEED (MPH)	100
ORDER NO	6540	SERIAL NO	742	TYPE	TWO STORY
FILE NAME	O#6540				
25'-0" 7/12 RAFTER					

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7/12 - 25'-0" WIDE - GOOD TO 40#GSL - 16" O.C.
NON-STORAGE RAFTER
GOOD TO 115 MPH WIND SPEED

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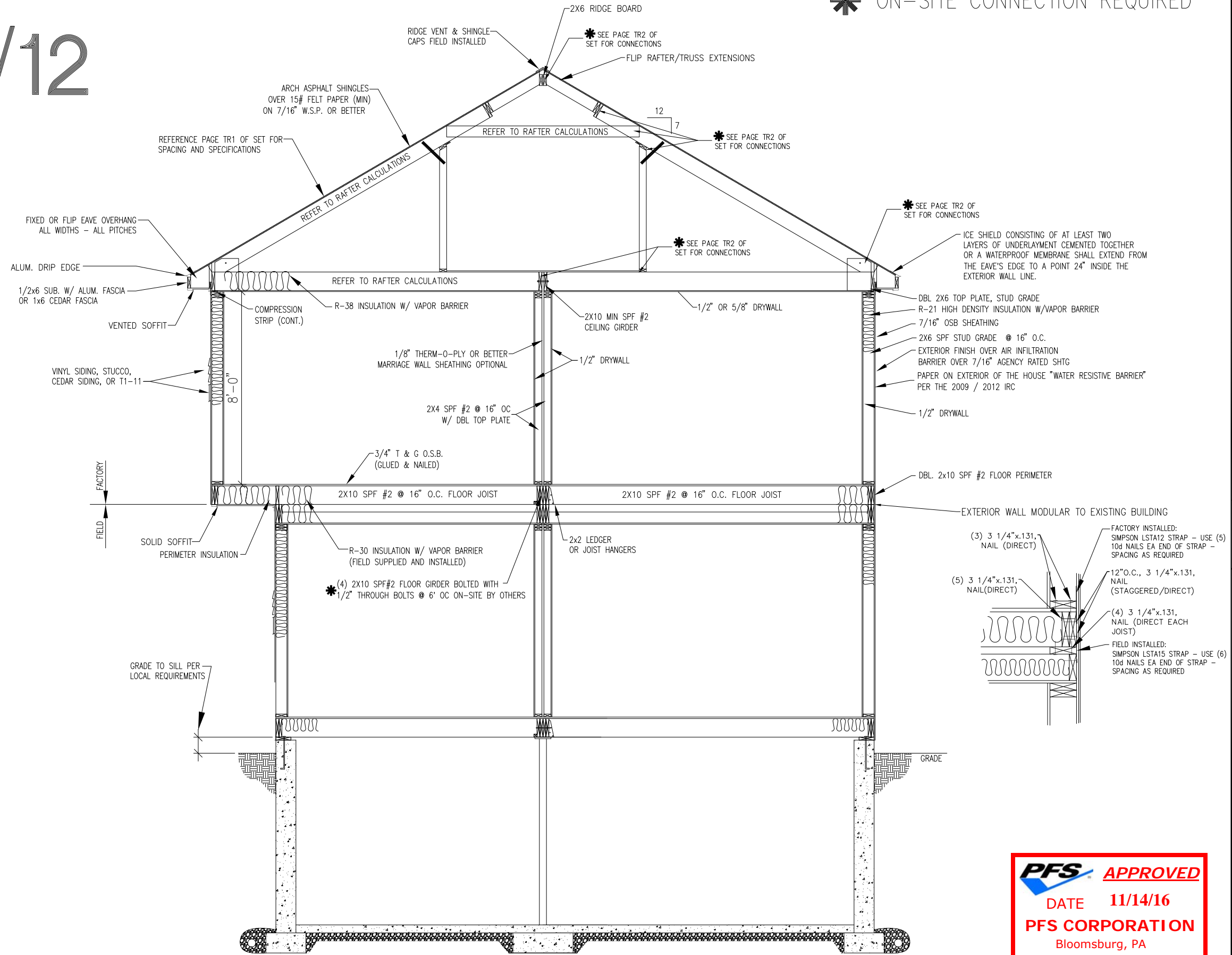
BY	JBG	PIF								
REVISION	PRELIM	FINAL								
DATE	6/21/16	11/1/16								
BUILDER	AVALON BUILDING SYSTEMS		STATE	MA	ZIP	02090	CITY	WESTWOOD	COUNTY	NORFOLK
HOMEOWNER/PROJECT	DEMEN BACHARA		SNOW LOAD (LBS)	40	WIND SPEED (MPH)	100	ORDER NO	6540	SERIAL NO	742
ADDRESS	471 EAST STREET		TYPE	TWO STORY	FILE NAME	O#6540				
25'-0" 7/12 RAFTER CONNECTIONS										
PAGE #:										TR2

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SERIAL #/ ORDER #
O#6540

7/12

*** ON-SITE CONNECTION REQUIRED**



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PIF	11/1/16	FINAL

BUILDER	AVALON BUILDING SYSTEMS
HOMEOWNER/PROJECT	DEMEN BACHARA
ADDRESS	471 EAST STREET
CITY	WESTWOOD
STATE	MA
ZIP	02090
COUNTY	NORFOLK
SNOW LOAD (LBS)	40
WIND SPEED (MPH)	100
ORDER NO	6540
SERIAL NO	742
FILE NAME	O#6540
TYPE	TWO STORY

PFS APPROVED
DATE 11/14/16
PFS CORPORATION
Bloomsburg, PA

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O#6540

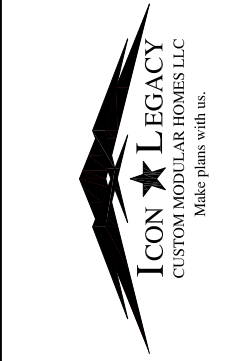
PAGE #:
SE1

CROSS SECTION / DETAIL #1

DOOR AND WINDOW SCHEDULE

WINDOWS DESCRIPTION	ROUGH OPENING	AREA	LIGHT	CLEAR OPENING WIDTH (EACH)	CLEAR OPENING HEIGHT (EACH)	VENT	U-FACTOR	QTY	TOTAL AREA
SILVERLINE 3000 SERIES DOUBLE HUNG 24210DH	30 1/4" X 37 1/4"	7.83	5.0	26.188	14.438	2.63	0.30	1	7.83
SILVERLINE 3000 SERIES DOUBLE HUNG 3046DH	38 1/4" X 57 1/4"	15.21	11.0	34.188	24.438	5.80	0.30	8	121.68
TOTAL AREA:									129.51

EXTERIOR DOORS DESCRIPTION	ROUGH OPENING	AREA	LIGHT	CLEAR OPENING WIDTH (EACH)	CLEAR OPENING HEIGHT (EACH)	VENT	U-FACTOR	QTY	TOTAL AREA
PLASTPRO 3068 (< 50% GLASS)	38 1/2" X 82 1/8"	21.96	0.0	0.000	0.000	20.00	0.17	1	21.96
TOTAL AREA:									21.96



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PRELIM	6/21/16	JBG
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BUILDER	AVALON BUILDING SYSTEMS
HOMEBUYER/PROJECT	DEMEN BACHARA
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SERIAL NO	
STATE	MA
ZIP	02090
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WIND SPEED (MPH)	100
TYPE	TWO STORY
SFT	742
FILE NAME	O#6540

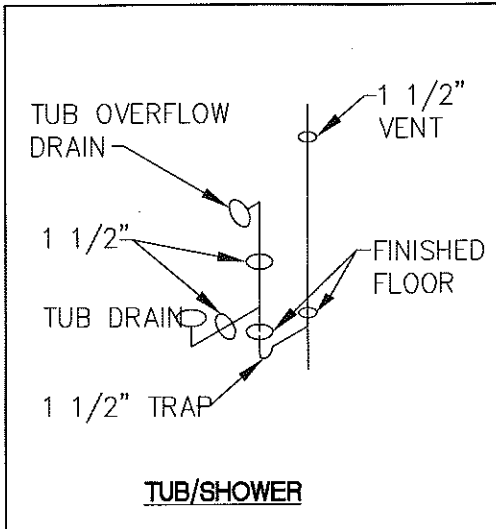


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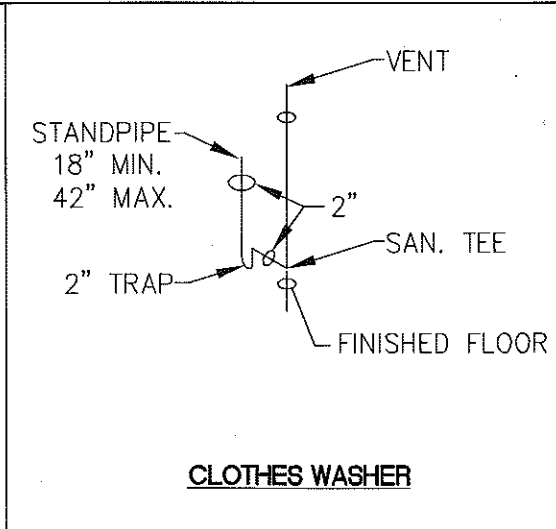
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PAGE #:
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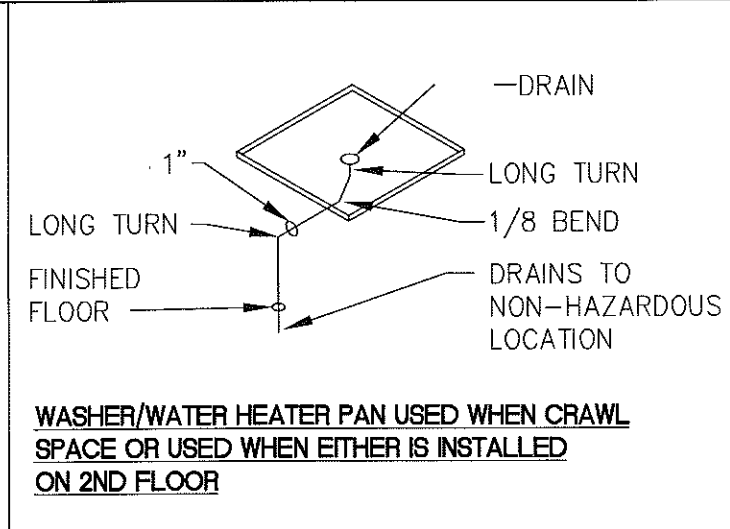
DOOR & WINDOW SCHEDULE



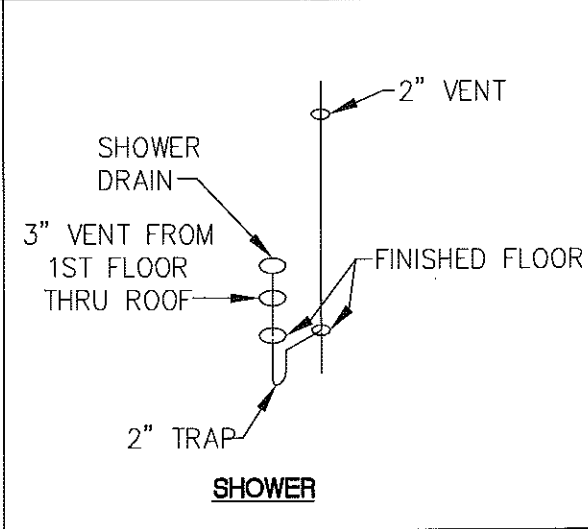
TUB/SHOWER



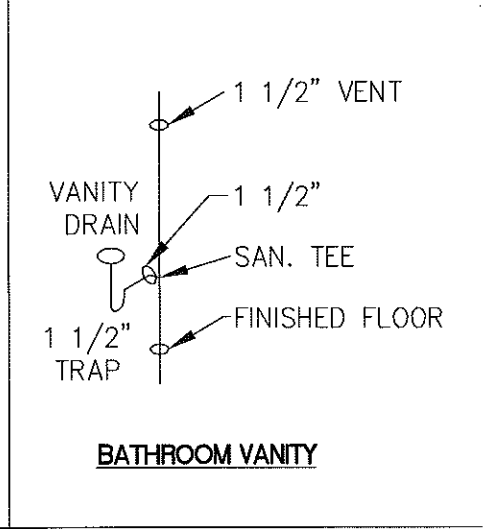
CLOTHES WASHER



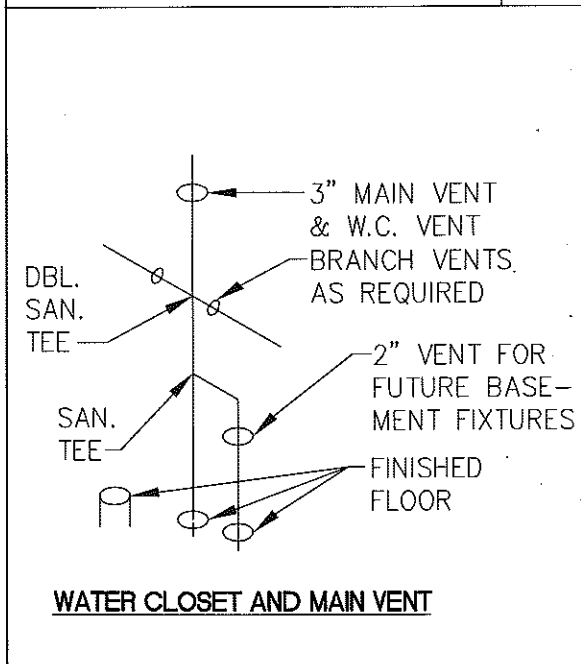
WASHER/WATER HEATER PAN USED WHEN CRAWL SPACE OR USED WHEN EITHER IS INSTALLED ON 2ND FLOOR



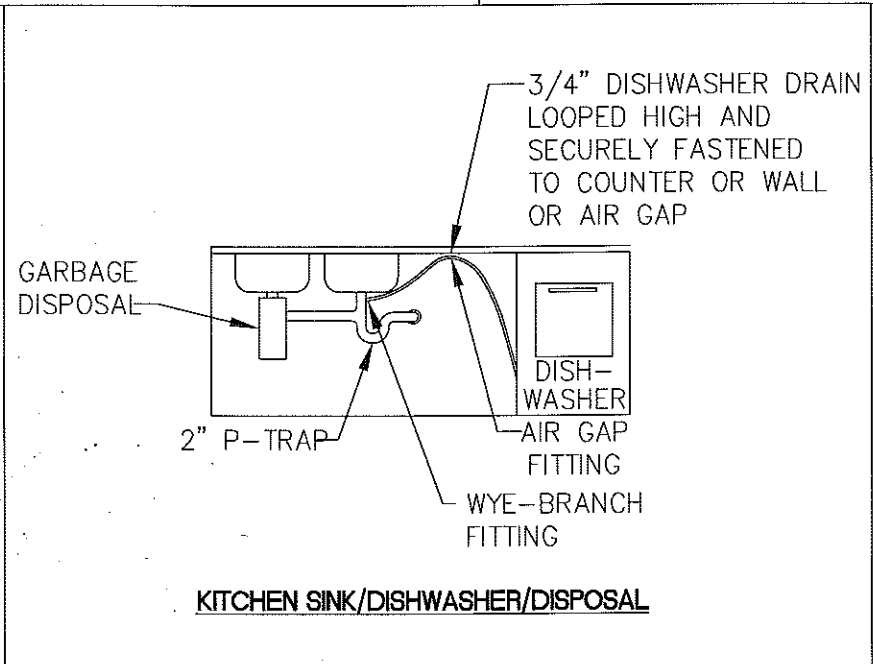
SHOWER



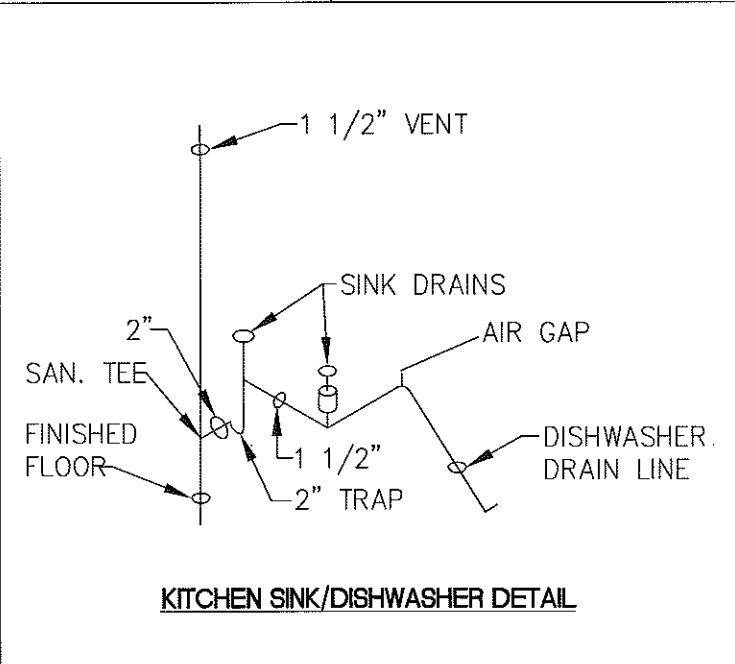
BATHROOM VANITY



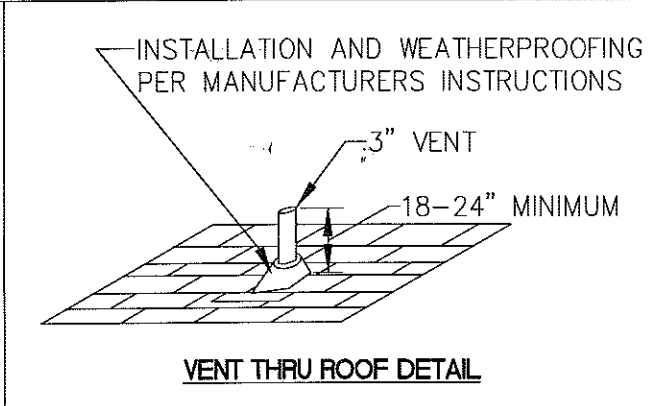
WATER CLOSET AND MAIN VENT



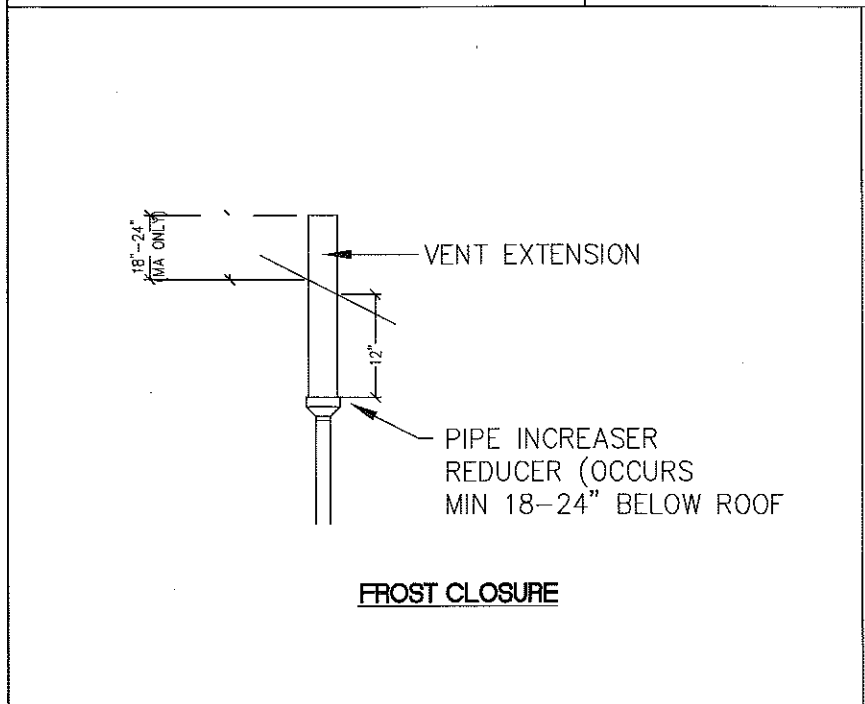
KITCHEN SINK/DISHWASHER/DISPOSAL



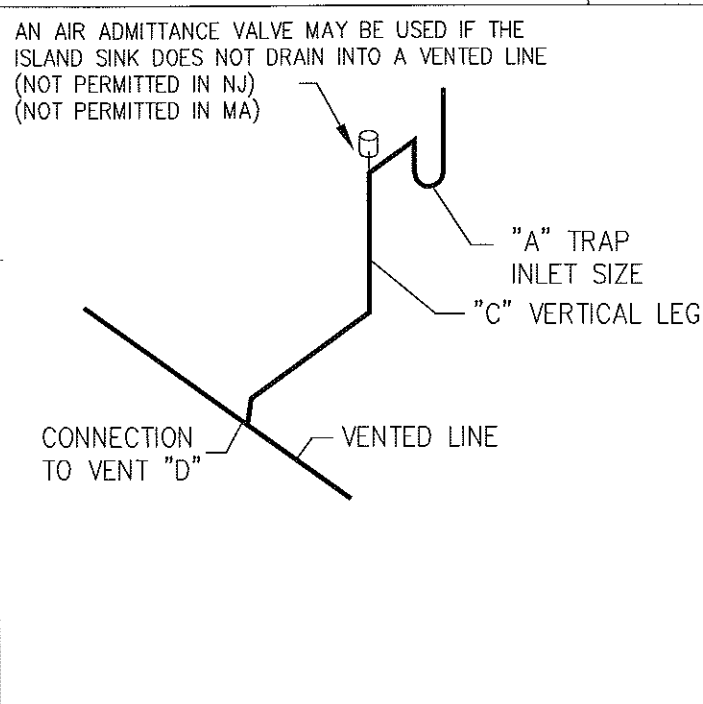
KITCHEN SINK/DISHWASHER DETAIL



VENT THRU ROOF DETAIL



FROST CLOSURE



THE VENT PIPE FROM A FIXTURE DRAIN, EXCEPT WATER CLOSETS AND SIMILAR SIPHONIC FIXTURES, SHALL NOT CONNECT BELOW THE TOP WEIR OF THE TRAP. THE VENT PIPE MAY BE CONNECTED AT A LOWER ELEVATION IF THE FOLLOWING ARE MET:

1. THE VERTICAL SECTION OF THE DRAIN PIPE SHALL BE AT LEAST ONE PIPE SIZE LARGER THAN THE TRAP INLET SIZE.
2. THE HORIZONTAL PIPE CONNECTED TO THE TRAP OUTLET SHALL BE AT LEAST TWO PIPE DIAMETERS LONG.
3. THE DEVELOPED LENGTH OF THE TRAP ARM SHALL NOT EXCEED THE VALUES STATED IN THE APPLICABLE PLUMBING CODES.

"A" - TRAP SIZE PER ALL APPLICABLE PLUMBING CODES
 "B" - TRAP ARM LENGTHS:
 1 1/4" TRAP - 3'-6"
 1 1/2" TRAP - 5'-0"
 3" TRAP - 10'-0"
 4" TRAP - 12'-0"
 "C" - SIZE IS ONE SIZE LARGE THAN TRAP SIZE
 "D" - DISTANCE FROM CROWN WEIR AND VENT CONNECTION ACCORDING TO MAX. DISTANCE OF VENT FROM FIXTURE TRAP



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 Custom Modular Homes, LLC

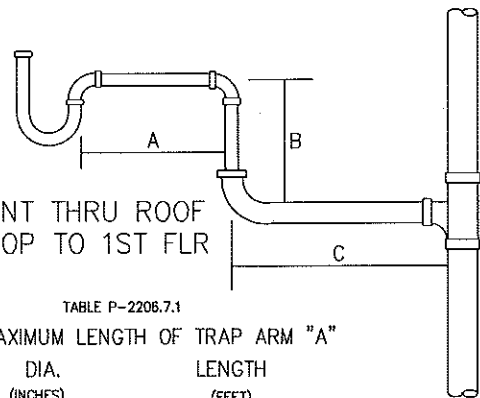
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CUSTOMER/PROJECT: SYSTEMS DRAWINGS
 BUILDER:

REV#	DATE	REVISIONS	BY	CHECKED BY:
1	12/14/09	CODE UPDATES	BAH	
2	12/10/10	REVISED SYSTEMS	SLW	
3	11/4/2011	MA CODE UP-DATE	SLW	
4	5/10/2011	Code up-date RI, VA, NJ	SW	

DRAWN BY: DATE: SCALE: NTS
 GLENCO/TH/03/14/08

FILE:
 SQ.FT.:
 STATE:
 TYPE:
 MODEL:
 DRAWING: PLUMBING DETAILS
 SHEET: PL1



ALLOWABLE FALL IN TRAP ARM: THE TOTAL FALL IN TRAP ARM DUE TO PIPE SLOPE SHALL NOT EXCEED ONE PIPE DIAMETER, NOR SHALL THE VENT PIPE CONNECTION TO A FIXTURE DRAIN, EXCEPT FOR WATER CLOSETS AND SIMILAR FIXTURES, BE BELOW THE WEIR OF THE TRAP.

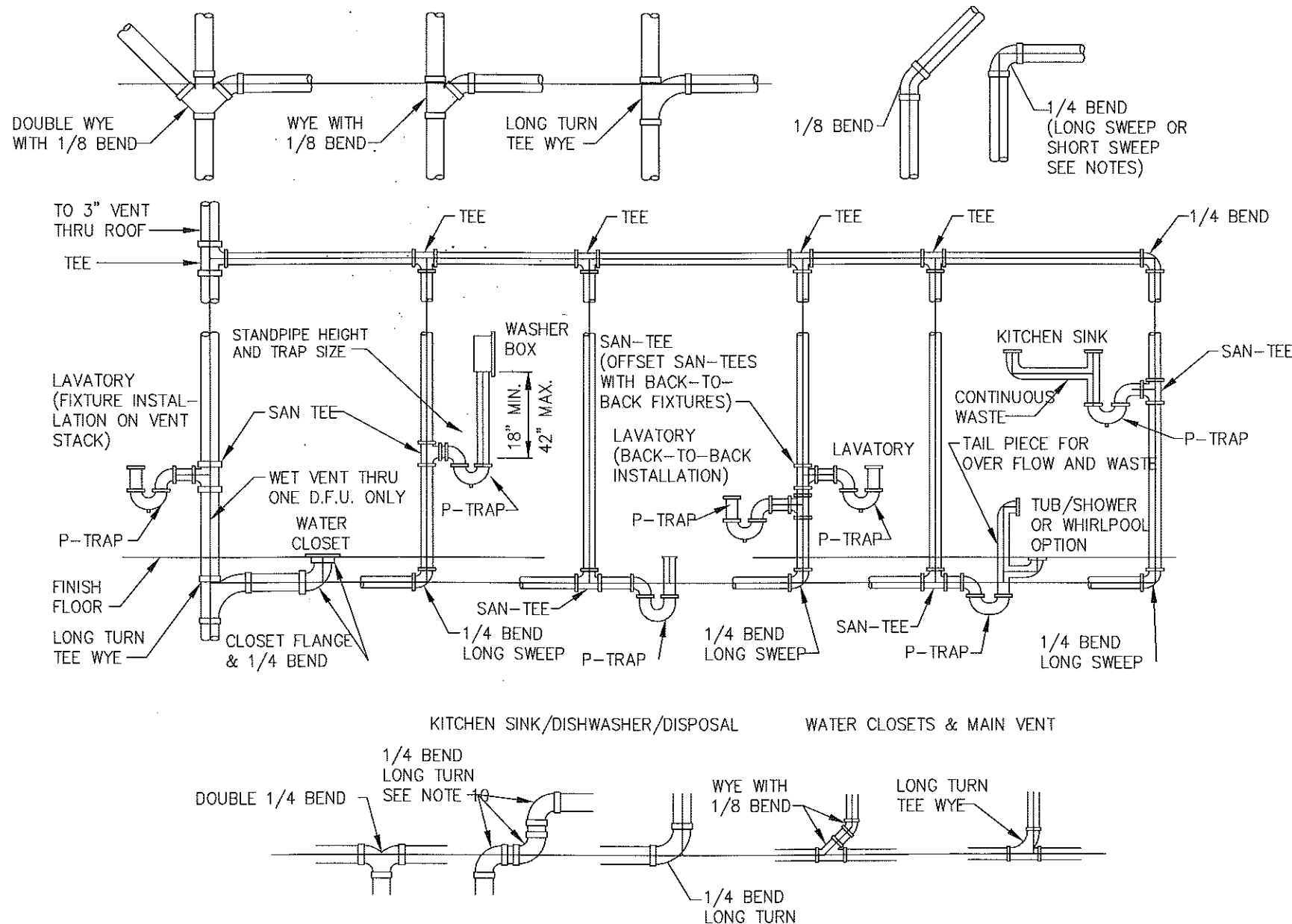
VERTICAL LEG FOR WASTE FIXTURE DRAINS: A VERTICAL LEG ("B" IN DIAGRAM) MAY BE INSTALLED IN THE TRAP ARM OF A WASTE-FIXTURE DRAIN IN LIEU OF THE USUAL TRAP ARM TO VENT CONNECTION. TYPICAL INSTALLATIONS INCLUDE ISLAND SINKS AND FIXTURES NOT ADJACENT TO A WALL. VERTICAL LEG TRAP ARM INSTALLATIONS SHALL MEET THE FOLLOWING CRITERIA:

1. MINIMUM TRAP DIAMETER SHALL MEET CODES
2. THE DIAMETER OF SECTION "A" SHALL BE EQUAL TO THE DIAMETER OF THE TRAP.
3. THE LENGTH OF SECTION "A" SHALL BE NOT LESS THAN "B" AND IN ACCORDANCE WITH TABLE P-2206.7.1.
4. THE DIAMETER OF SECTION "B" SHALL BE ONE PIPE SIZE LARGER THAN THE DIAMETER OF SECTION "A".
5. THE LENGTH OF SECTION "B" SHALL BE NOT MORE THAN 36 INCHES
6. THE DIAMETER OF SECTION "C" SHALL BE ONE PIPE SIZE LARGER THAN THE DIAMETER OF SECTION "B".
7. THERE IS NO RESTRICTION ON THE LENGTH OF SECTION "C".
8. BENDS SHALL BE THE DIAMETER OF THE LARGEST CONNECTED SECTION.

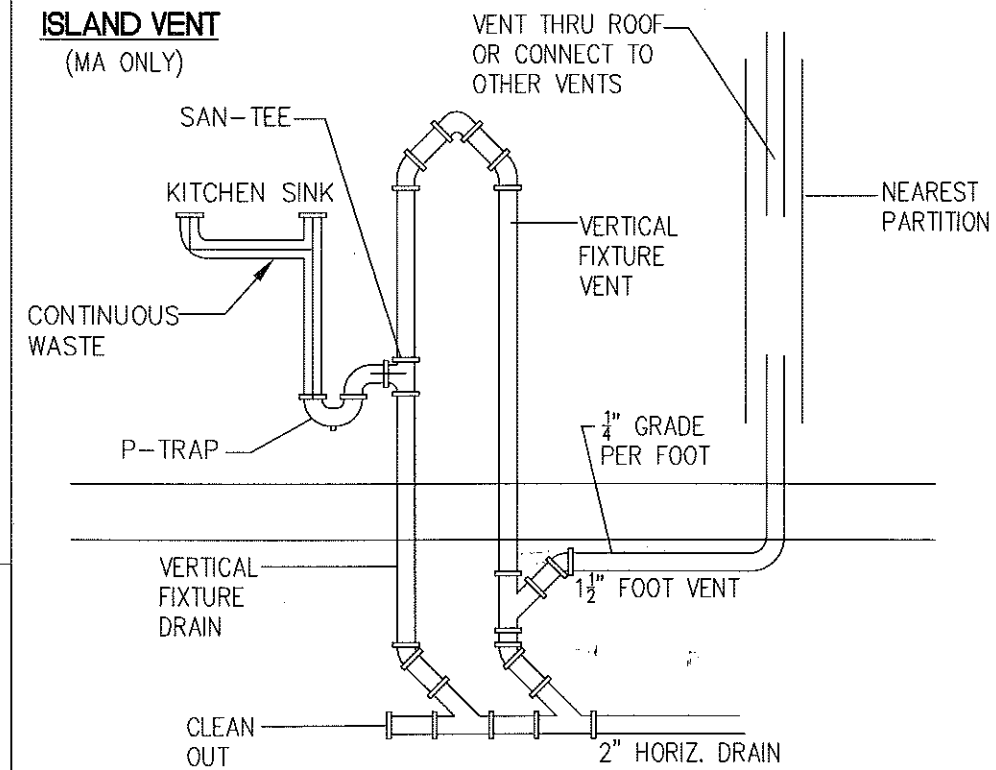
TABLE P-2206.7.1
MAXIMUM LENGTH OF TRAP ARM "A"

DIA. (INCHES)	LENGTH (FEET)
1-1/4	3'-6"
1-1/2	5'
2	8'
3	10'
4	14'

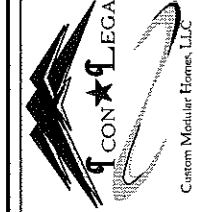
NOT PERMITTED IN MASSACHUSETTS



ISLAND VENT (MA ONLY)



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REV#	DATE	REVISIONS	BY	CHECKED BY:
1	12/14/08	CODE UPDATES	RJH	NTS
2	12/10/10	REVISED SYSTEMS	SLW	
3	1/4/2011	MA CODE UP-DATE	SLW	
4	9/10/2011	Code up-date fl, VA, NJ	SW	

SCALE: 1/8" = 1'-0"
DRAWN BY: DATE: 03/14/08
GLENCO/TH



FILE:
SQ.FT.:
STATE:
TYPE:
MODEL:
DRAWING: PLUMBING DETAILS
SHEET: PL2

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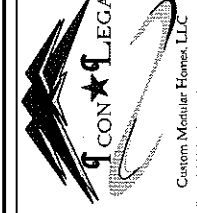
PLUMBING NOTES:

1. ALL PLUMBING CONSTRUCTION AND MATERIAL BELOW THE MODULAR FLOOR AND BETWEEN FLOORS IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR AND IS TO BE DONE IN ACCORDANCE W/STATE AND LOCAL CODES.
2. CONCEALED PIPING IN UNHEATED AREAS, INCLUDING OUTSIDE WALLS, SHALL BE PROTECTED AGAINST FREEZING IN PLANT. PIPING SHALL BE KEPT OUT OF UNHEATED AREAS WHERE POSSIBLE.
3. ALL WASTE AND VENT LINES IN MODULES ARE ABS OR PVC PIPE. ALL SUPPLY LINES IN MODULES ARE COPPER, PEX, OR CPVC.
4. PITCH ON HORIZONTAL WASTE LINES IS $\frac{1}{8}$ " PER FOOT FOR GREATER THAN 3" DIAMETER PIPE, $\frac{1}{4}$ " PER FOOT FOR 3" DIAMETER PIPE OR LESS.
5. WASTE LINES: INSTALL WYE WITH CLEANOUT PRIOR TO EXITING WALL FOR CONNECTION TO DISPOSAL SYSTEM. 4" MINIMUM WASTE LINE TO SEPTIC (BY BUILDER IN FIELD).
6. WASHER SHALL HAVE MINIMUM 2" TRAP.
7. REMOVABLE TRAPS UNDER ALL SINKS TO PROVIDE CLEANOUT ACCESS.
8. GARBAGE DISPOSAL MUST HAVE SEPARATE TRAP. DISHWASHER CANNOT DISCHARGE INTO GARBAGE DISPOSAL.
9. KITCHEN SINK SHALL HAVE 2" DRAIN WHEN A GARBAGE DISPOSAL OR DISHWASHER ARE CONNECTED.
10. HORIZONTAL TO HORIZONTAL AND VERTICAL TO HORIZONTAL DRAIN CHANGES IN DIRECTION SHALL BE 45° WYES, LONG SWEEP 90° ELBOWS, LONG SEEP TY'S, 6TH, 8TH, OR 16TH BENDS, APPROVED COMBINATIONS OF THESE OR EQUIVALENT LONG SWEEP FITTINGS. SHORT SWEEPS ARE PERMITTED IN SINGLE BRANCH HORIZONTAL TO VERTICAL CHANGES IN DIRECTION ON 3" PIPE AND LARGER.
11. ALL HORIZONTAL VENT BRANCH PIPING SHALL BE LOCATED A MINIMUM OF 6" ABOVE THE FLOOD LEVEL OF THE HIGHEST FIXTURE IN THAT BRANCH.
12. PVC-DWV PIPE SUPPORTS: AT BRANCHES, CHANGES IN DIRECTION, AND AT THE BASE, EACH FLOOR AND MID STORY (VERTICAL) MAXIMUM EVERY 4'-0" AT THE END OF BRANCHES, AND CHANGE OF DIRECTIONS OR ELEVATION,
13. PIPE PENETRATING FIRE RATED ASSEMBLIES INCLUDING FLOOR/CEILING SHALL BE FIRE STOPPED WHERE REQUIRED BY ALL CODES WITH MATERIAL EQUIVALENT TO CONSTRUCTION THROUGH WHICH IT PENETRATES AND BE SUITABLE TO PIPE MATERIAL, OR USE METAL PIPE FROM A MINIMUM OF ABOVE THE FIRE RATED ASSEMBLY AND DOWN.
14. FIRE STOPPING SHALL BE PROVIDED AND VERIFIED BEFORE IT IS COVERED OR CONCEALED IN THE CONSTRUCTION PROCESS.
15. ANY STRUCTURAL MEMBER SUBJECT TO HOLE DRILLING, CUTTING, OR NOTHCING SHALL BE LEFT IN A SAFE STRUCTURAL CONDITION BY BEING REINFORCED, REPAIRED, OR REPLACED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE CODE.
16. FIELD INSTALLED (ON-SITE) PIPING SHALL BE APPROVED BY THE LOCAL BUILDING CODE ENFORCEMENT OFFICER. PIPING SHALL BE FIELD TESTED FOR LEAKS.
17. BATH TUBS, INCLUDING GARDEN TUBS, HYDRO-MASSAGE, AND HOT TUBS SHALL HAVE A 1 $\frac{1}{2}$ " MIN OVERFLOW.
18. JOINTS AROUND PLUMBING FIXTURES SHALL BE MADE WATERPROOF AT FLOORS, WALLS, & COUNTERTOPS.
19. EACH FIXTURE SHALL BE INDIVIDUALLY DIRECT OR WET VENTED.
20. EACH DWELLING UNIT SHALL HAVE ONE MAIN 3" STACK FROM BUILDING DRAIN.
21. ALL VENTS THROUGH ROOF TO BE 3" MIN DIAMETER AND SHALL TERMINATE 18'-24" ABOVE THE ROOF.
22. BASEMENT MODELS SHALL BE PROVIDED IN FACTORY WITH A 2" VENT TO BASEMENT STUBBED BELOW THE FIRST FLOOR, THEN CAPPED AND LABELED. BASEMENT VENT MAY BE DELETED WHEN CLOTHES WASHER IS ON THE FIRST OR SECOND FLOOR.

23. ALL TRAP ARMS MUST BE SUPPORTED WITH $\frac{3}{4}$ " MINIMUM BEARING.(MA ONLY)
24. ALL PLASTIC PIPE MUST BE SUPPORTED AT INTERVALS IN ACCORDANCE WITH APPLICABLE PLUMBING CODES.
25. TRAPS SHALL BE PLACED AS CLOSE AS POSSIBLE TO FIXTURE OUTLET. MAXIMUM VERTICAL DROP FROM FIXTURE OUTLET TO TRAP WEIR IS 24".
26. INACCESSIBLE TRAPS SHALL NOT HAVE UNIONS, CLEANOUTS OR SLIPJOINTS. ACCESSIBLE TRAPS SHALL BE REMOVABLE WITH UNION IN TRAP SEAL OR HAVE CLEANOUT OPENING SIZED THE SAME AS THE TRAP.
27. MAXIMUM DISTANCE OF FIXTURE TRAP WEIR TO VENT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE PLUMBING CODES.
28. PLASTIC PIPING SHALL BE PROTECTED WITH $\frac{1}{8}$ " STEEL PLATE WHEN PIPE PASSES THROUGH WOOD MEMBERS LESS THAN 1 $\frac{1}{4}$ " FROM EDGE OF MEMBER.
29. FIRST FLOOR FIXTURES SHALL CONNECT INTO HORIZONTAL BUILDING DRAIN MORE THAN 10 PIPE DIAMETERS DOWNSTREAM OF STACK BASE AND NOT CONNECT INTO SECOND FLOOR DRAIN STACK.
30. POTABLE WATER SYSTEM SHALL BE DISINFECTED ON SITE BY BUILDER IN ACCORDANCE WITH APPLICABLE STATE PLUMBING CODES.
31. ISLAND FIXTURE VENTING SHALL NOT BE PERMITTED FOR FIXTURES OTHER THAN SINKS AND LAVATURES. (SEE ISLAND DETAILS).
32. ANTI-SIPHONING DEVICE, VACUUM BREAKDERS, AND AIR GAPS: FOR WATER DISTRICTUION SYSTEMS "PROTECTION OF POTABLE WATER SUPPLY".
 - 32.1. WATER HEATER LOCATED AT OR ON LIVING SPACE LEVEL MUST HAVE AN ANTI-SIPHONING DEVICE INSTALLED.
 - 32.2. CLOTHES WASHER MUST HAVE AN ANTI-SIPHONING DEVICE INSTALLED (IF NOT BUILT INTO THE APPLIANCE).
33. WATER HAMMER ARRESTORS SHALL BE INSTALLED WHERE QUICK CLOSING VALVES ARE UTILIZED. (I.E. WASHING MACHINES AND DISHWASHERS).
34. PIPE INSTALLED DOWNSTREAM OF THE POINT OF POINT OF DELIVERY SHALL NOT EXTEND THROUGH ANY TOWNHOUSE UNIT OTHER THAN THE UNIT SERVED BY SUCH PIPING.



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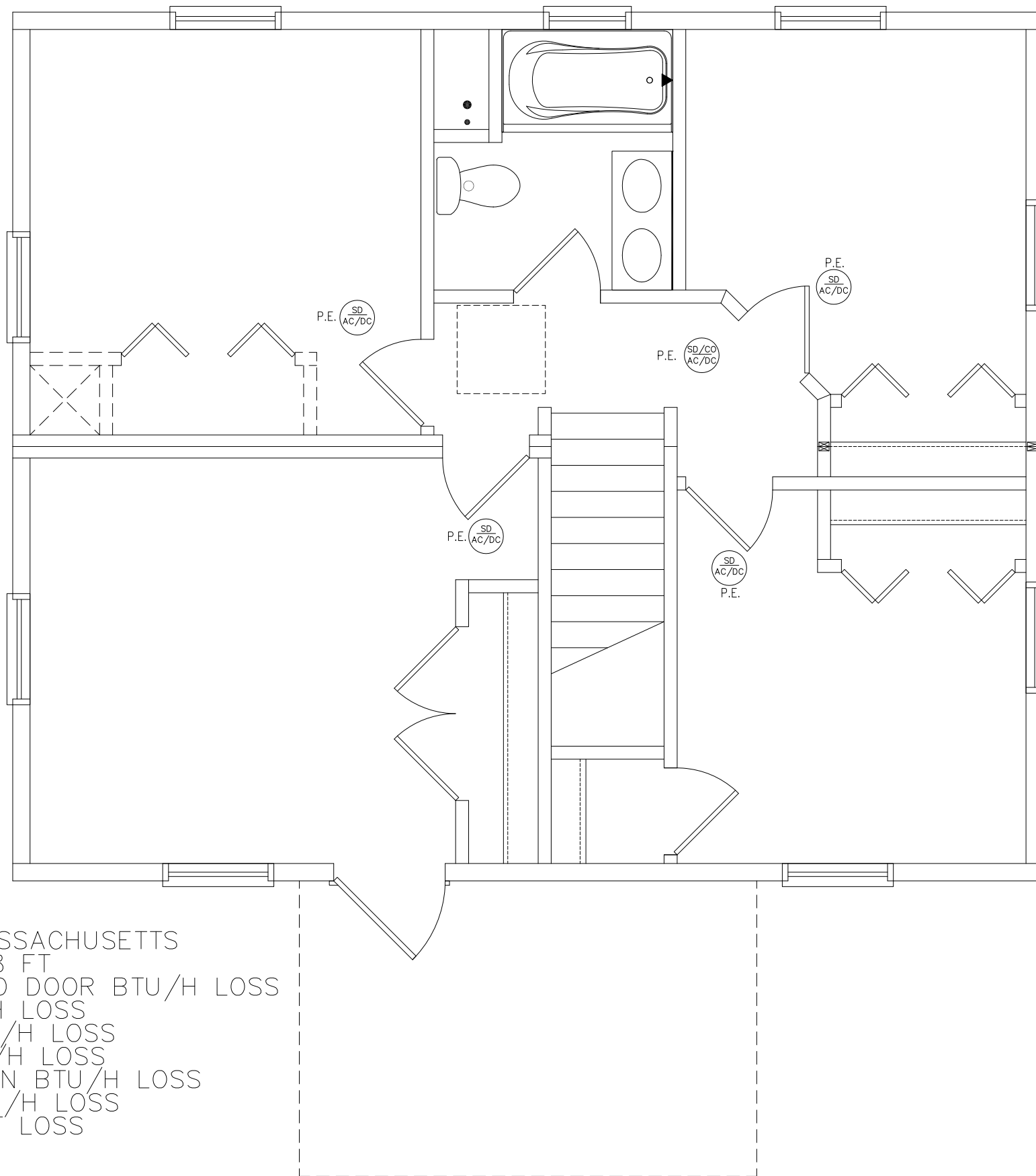
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CUSTOMER/PROJECT: SYSTEMS DRAWINGS
 BUILDER:

REV#	DATE	REVISIONS	BY	CHECKED BY:
1	12/14/09	CODE UPDATES	BLF	NTS
2	12/10/10	REVISED SYSTEMS	SLW	
3	1/14/2011	MA CODE UP-DATE	SLW	
4	5/10/2011	Code up-date RI, VA, NJ	SN	
DRAWN BY: DATE: 03/14/08			SCALE: NTS	

state approval stamp

FILE:
 SQ.FT.:
 STATE:
 TYPE:
 MODEL:
 DRAWING: PLUMBING NOTES
 SHEET: PL3

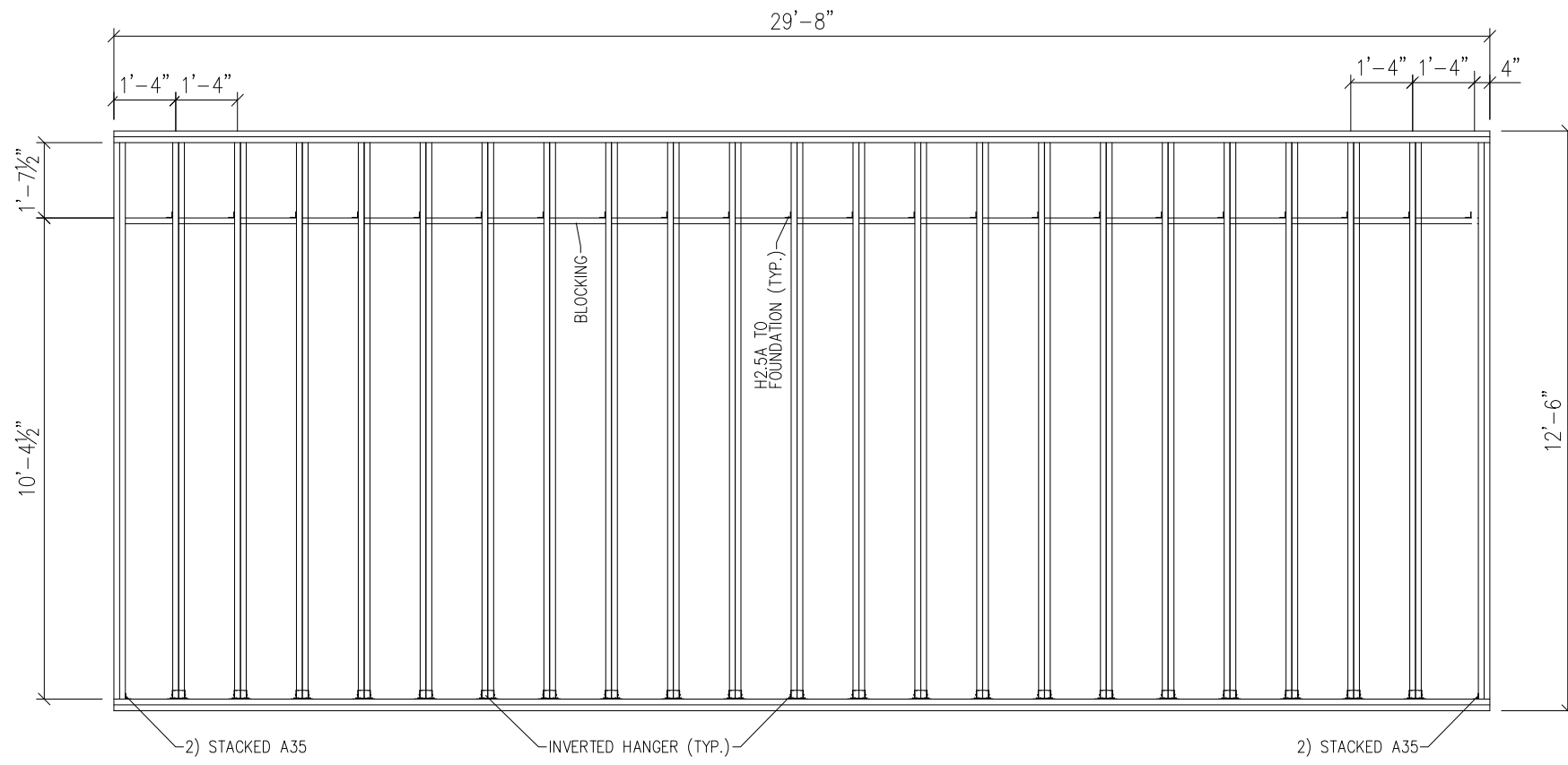


STATE: MA – MASSACHUSETTS
 CEILING HEIGHT: 8 FT
 3398 WINDOW AND DOOR BTU/H LOSS
 2712 WALL BTU/H LOSS
 1539 CEILING BTU/H LOSS
 3078 FLOOR BTU/H LOSS
 18271 INFILTRATION BTU/H LOSS
 28998 TOTAL BTU/H LOSS
 8496 TOTAL WATT LOSS
 34 FT. RADIATION
 53 FT. HWBB
 35 FT. HI CAPACITY HWBB



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BY	JBG PIF
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DATE	6/21/16 11/1/16
BUILDER	AVALON BUILDING SYSTEMS
HOMEOWNER/PROJECT	DEMEN BACHARA
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ZIP	02090
COUNTY	NORFOLK
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WIND SPEED (MPH)	100
ORDER NO	6540
SERIAL NO	742
TYPE	TWO STORY
FILE NAME	O#6540
2ND STORY HEAT LOSS	
SERIAL # / ORDER #	O#6540
PAGE #	HL1

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FLOOR FRAMING

2) 2X10 SPF#2 JOISTS @ 16" O.C.



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PAGE #:
FF1

BUILDER	AVALON BUILDING SYSTEMS	
HOMEOWNER/PROJECT	DEMEN BACHARA	
ADDRESS	471 EAST STREET	
CITY	STATE	ZIP
WESTWOOD	MA	02090
COUNTY	SNOW LOAD (LBS)	WIND SPEED (MPH)
NORFOLK	40	100
ORDER NO	SERIAL NO	TYPE
6540	742	TWO STORY
FILE NAME	O#6540	

DATE	REVISION	BY
6/21/16	PRELIM	JBG
11/1/16	FINAL	PIF

246 SAND HILL ROAD
SELINSGROVE, PA 17870
PHONE: (570) 374-3280
FAX: (570) 374-1122
WWW.ICONLEGACY.COM



REScheck Software Version 4.6.1 Compliance Certificate

Project **DEMIEN BACHARA**

Energy Code: **2012 IECC**
 Location: **Westwood, Massachusetts**
 Construction Type: **Single-family**
 Project Type: **Addition**
 Climate Zone: **5 (6650 HDD)**
 Permit Date:
 Permit Number:

Construction Site:
 471 EAST STREET
 WESTWOOD, MA 02090

Owner/Agent:
 AVALON BUILDING SYSTEMS
 3 PORTER ST. UNIT 201
 STOUGHTON, MA 02072

Designer/Contractor:
 ICON LEGACY CMH
 246 SAND HILL RD
 SELINGSGROVE, PA 17870

Compliance: Passes using UA trade-off

Compliance: **2.3% Better Than Code** Maximum UA: **133** Your UA: **130**

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss	742	38.0	0.0	0.030	22
Wall 1: Wood Frame, 16" o.c.	875	21.0	0.0	0.057	41
Window 1: Vinyl/Fiberglass Frame:Double Pane with Low-E	130			0.300	39
Door 1: Glass	22			0.170	4
Floor 1: All-Wood Joist/Truss:Over Unconditioned Space	742	30.0	0.0	0.033	24

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2012 IECC requirements in REScheck Version 4.6.1 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

ICON LEGACY CMH
 Name - Title

Brett J Helvert
 Signature

11/14/16
 Date





Inspection Checklist

Energy Code: 2012 IECC

Requirements: 0.0% were addressed directly in the REScheck software



Text in the "Comments/Assumptions" column is provided by the user in the REScheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Pre-Inspection/Plan Review	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
103.1, 103.2 [PR1] ¹	Construction drawings and documentation demonstrate energy code compliance for the building envelope.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
103.1, 103.2, 403.7 [PR3] ¹	Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the IECC Commercial Provisions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
302.1, 403.6 [PR2] ²	Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official.	Heating: Btu/hr _____ Cooling: Btu/hr _____	Heating: Btu/hr _____ Cooling: Btu/hr _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:



1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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2012 IECC	Foundation Inspection	Complies?	Comments/Assumptions
303.2.1 [FO11] ² 	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.8 [FO12] ² 	Snow- and ice-melting system controls installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:



1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.3.1, 402.3.3, 402.3.6, 402.5 [FR2] ¹	Glazing U-factor (area-weighted average).	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.1.3 [FR4] ¹	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.1.1 [FR23] ¹	Air barrier and thermal barrier installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.3 [FR20] ¹	Fenestration that is not site built is listed and labeled as meeting AAMA /WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC 400 that do not exceed code limits.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.4 [FR16] ²	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤2.0 cfm leakage at 75 Pa.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.2.1 [FR12] ¹	Supply ducts in attics are insulated to ≥R-8. All other ducts in unconditioned spaces or outside the building envelope are insulated to ≥R-6.	R-____ R-____	R-____ R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.2.2 [FR13] ¹	All joints and seams of air ducts, air handlers, and filter boxes are sealed.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.2.3 [FR15] ³	Building cavities are not used as ducts or plenums.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3 [FR17] ²	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to ≥R-3.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.1 [FR24] ¹	Protection of insulation on HVAC piping.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.4.2 [FR18] ²	Hot water pipes are insulated to ≥R-3.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)



DATE **11/14/16**
PFS CORPORATION
 Bloomsburg, PA



1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13] ²	All installed insulation is labeled or the installed R-values provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.2.6 [IN1] ¹	Floor insulation R-value.	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2, 402.2.7 [IN2] ¹	Floor insulation installed per manufacturer's instructions, and in substantial contact with the underside of the subfloor.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.2.5, 402.2.6 [IN3] ¹	Wall insulation R-value. If this is a mass wall with at least 1/2 of the wall insulation on the wall exterior, the exterior insulation requirement applies (FR10).	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2 [IN4] ¹	Wall insulation is installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:



1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.2.1, 402.2.2, 402.2.6 [FI1] ¹	Ceiling insulation R-value.	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.1.1.1, 303.2 [FI2] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft ² .			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.3 [FI22] ²	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.4 [FI3] ¹	Attic access hatch and door insulation ≥R-value of the adjacent assembly.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.1.2 [FI17] ¹	Blower door test @ 50 Pa. ≤5 ach in Climate Zones 1-2, and ≤3 ach in Climate Zones 3-8.	ACH 50 = ____	ACH 50 = ____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.2.2 [FI4] ¹	Duct tightness test result of ≤4 cfm/100 ft ² across the system or ≤3 cfm/100 ft ² without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing Inspection.	____ cfm/100 ft ²	____ cfm/100 ft ²	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.2.2.1 [FI24] ¹	Air handler leakage designated by manufacturer at ≤2% of design air flow.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.1.1 [FI9] ²	Programmable thermostats installed on forced air furnaces.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.1.2 [FI10] ²	Heat pump thermostat installed on heat pumps.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.4.1 [FI11] ²	Circulating service hot water systems have automatic or accessible manual controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.1 [FI25] ²	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
404.1 [FI6] ¹	75% of lamps in permanent fixtures or 75% of permanent fixtures have high efficacy lamps. Does not apply to low-voltage lighting.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	



1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
404.1.1 [F123] ³	Fuel gas lighting systems have no continuous pilot light.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
401.3 [F17] ²	Compliance certificate posted.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.3 [F18] ³	Manufacturer manuals for mechanical and water heating systems have been provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:



1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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2012 IECC Energy Efficiency Certificate

Insulation Rating	R-Value
Above-Grade Wall	21.00
Below-Grade Wall	0.00
Floor	30.00
Ceiling / Roof	38.00
Ductwork (unconditioned spaces):	_____

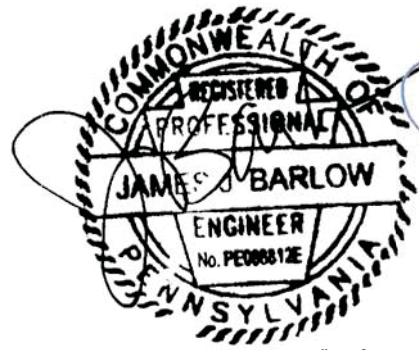
Glass & Door Rating	U-Factor	SHGC
Window	0.30	
Door	0.17	

Heating & Cooling Equipment	Efficiency
Heating System: _____	_____
Cooling System: _____	_____
Water Heater: _____	_____

Name: _____ Date: _____

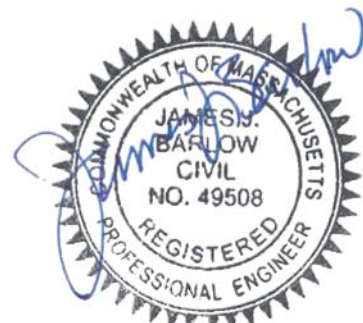
Comments



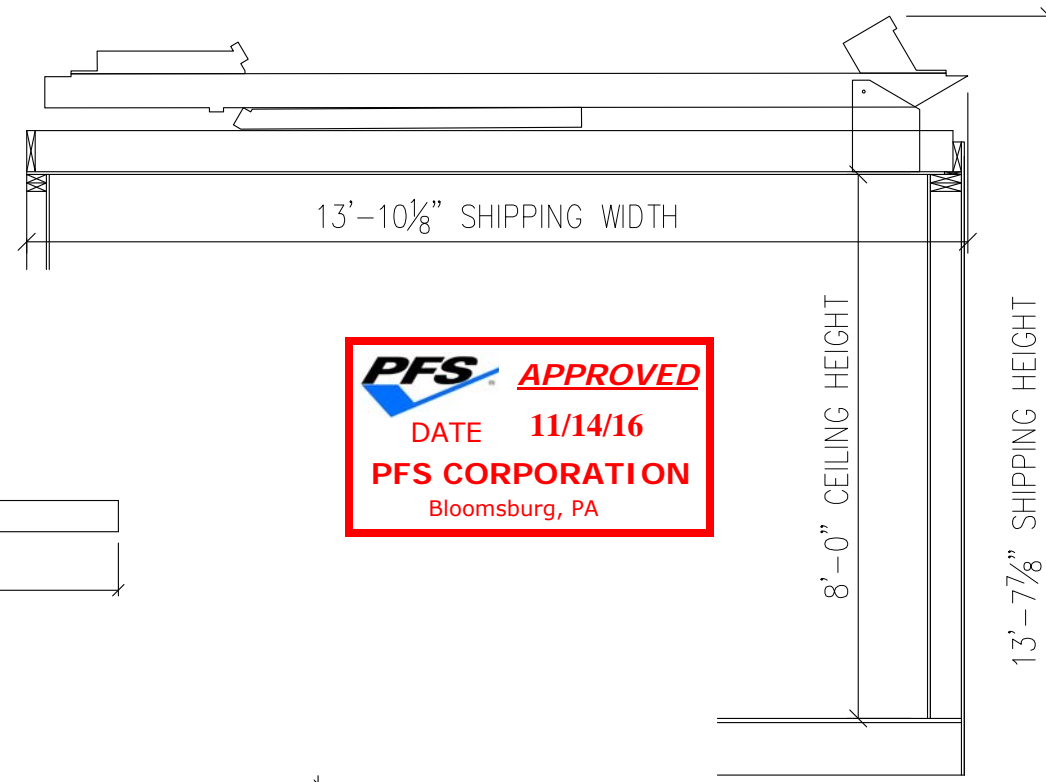


01/03/13

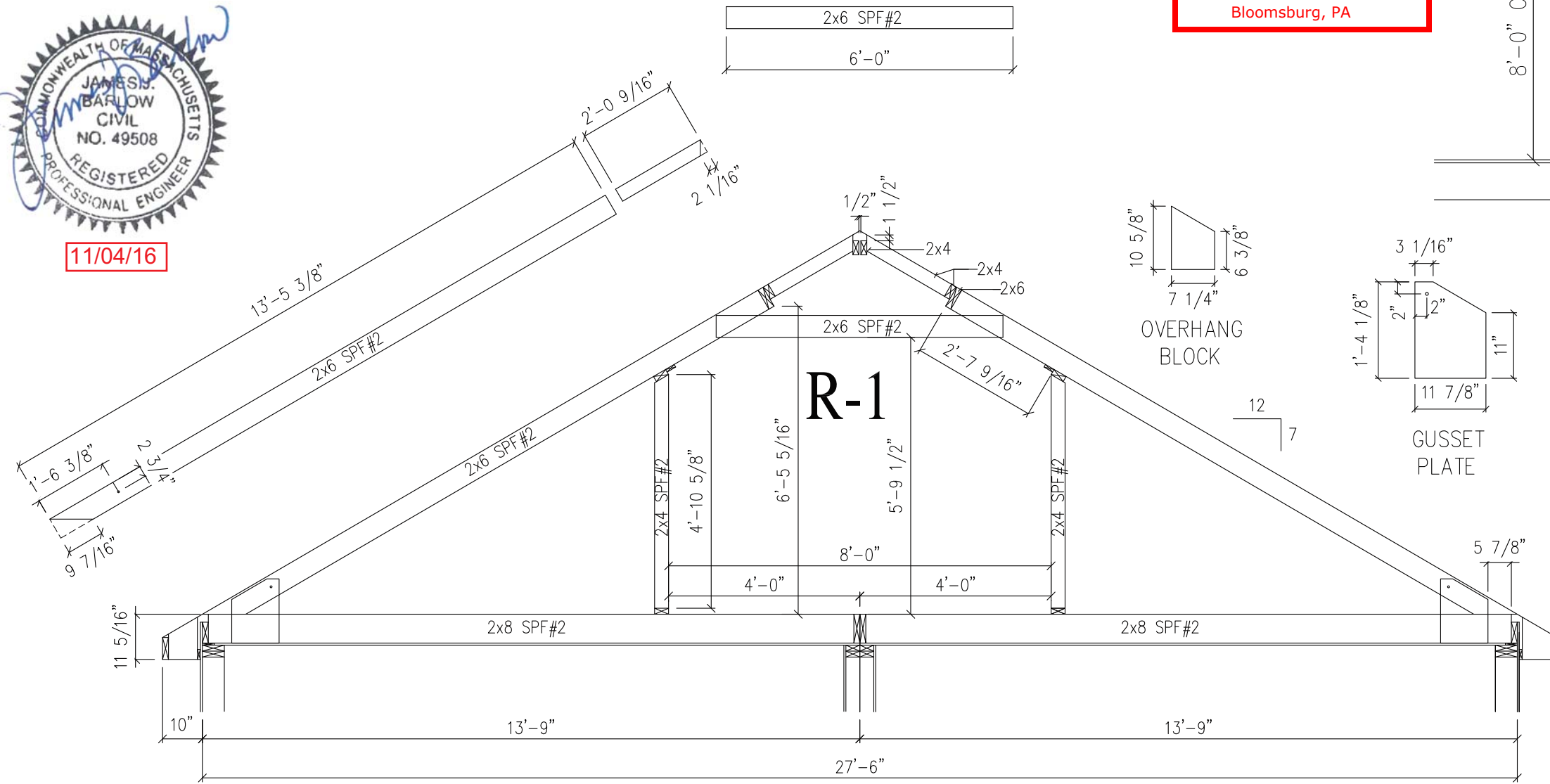
"Professional Certification. I hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland." License No.: 33421 Expiration Date: 7/16/14



11/04/16



PFS APPROVED
 DATE 11/14/16
PFS CORPORATION
 Bloomsburg, PA



**7/12 - 27'-6" WIDE - GOOD TO 40#GSL - 16" O.C.
 NON-STORAGE RAFTER**

246 SAND HILL ROAD
 SELINS GROVE, PA 17870
 PHONE: (570) 374-3280
 FAX: (570) 374-1122
 WWW.ICONLEGACY.COM



BY	REVISION	DATE

BUILDER	CUSTOMER/PROJECT
ADDRESS	CITY
STATE	ZIP
COUNTY	SNOW LOAD (LBS)
ORDER NO	WIND SPEED (MPH)
SERIAL NO	TYPE
FILE NAME	

TRUSS: 7-275-01

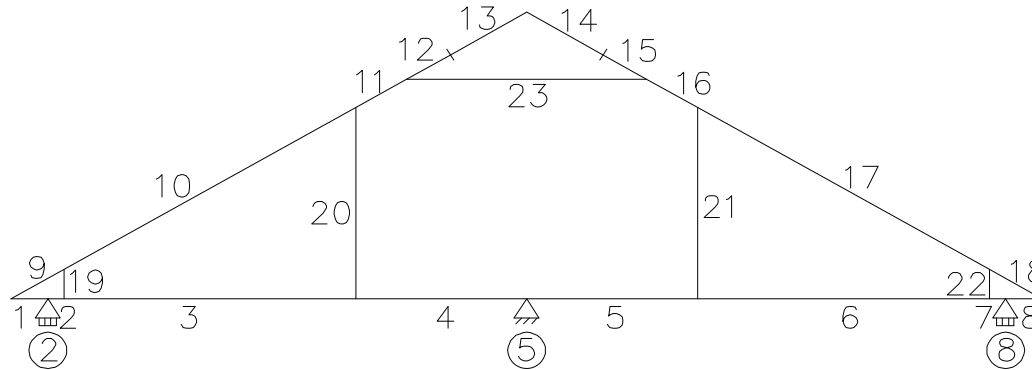
THIS TRUSS DESIGN MAY BE USED FOR LESSER SPANS PROVIDED NO MEMBER HAS A GREATER LENGTH AND ALL CONNECTIONS ARE AS SPECIFIED.

SERIAL # / ORDER #
 S#????/O#????

PAGE #
6A

**STRUCTURAL LUMBER
INTERACTION CALCULATIONS**

LEGACY CUSTOM MODULAR HOMES



TRUSS NO.: TR7-27-6
JOB NO.: 120111
PITCH: 7/12
SPAN: 27'-6"

TRUSS CENTERS FOR 115 mph WIND: 16"
TRUSS CENTERS FOR 150 mph WIND: 16"

TC DL: 10 psf
BC LL: 10 psf WHERE h < 42"
BC LL: 20 psf WHERE h ≥ 42"
BC DL: 10 psf

11/04/16



	20 psf	30 psf	40 psf	60 psf	70 psf	90 psf
GROUND SNOW:	20 psf	30 psf	40 psf	60 psf	70 psf	90 psf
TRUSS CENTERS:	16	16	16	12	12	N/A in
BALANCED SNOW LOAD:	*20.4	23.1	30.8	46.2	53.9	N/A psf
UNBALANCED SNOW LOAD:	36.02	42.72	54.32	77.44	89.02	N/A psf
OPPOSITE SIDE UNB. SNOW LOAD:	6.12	6.93	9.24	13.86	16.17	N/A psf
UNBALANCED SNOW LOAD LENGTH:	5.09	5.93	6.63	7.75	8.22	N/A ft

* ADDITIONAL 5 psf RAIN ON SNOW SURCHARGE APPLIED



MEMBER INFORMATION:

MEMBER	SIZE & SPECIES
1 - 8	2 x 8 SPF #2
9 - 12 & 15 - 18	2 x 6 SPF #2
13 & 14	2 x 4 SPF #2
19 - 22	2 x 4 SPF #2
23	2 x 6 SPF #2

APPLIED MWFRS UPLIFT: 21.67 psf WINDWARD AT 115 mph
12.31 psf LEEWARD AT 115 mph
36.87 psf WINDWARD AT 150 mph
20.94 psf LEEWARD AT 150 mph

APPLIED C & C UPLIFT: 23.06 psf AT 115 mph
39.23 psf AT 150 mph

MAXIMUM SUPPORT REACTIONS (lbs):

	DEAD LOAD	MWFRS UPLIFT						C & C UPLIFT			
		DL + LL + 20 psf SNOW	DL + LL + 30 psf SNOW	DL + LL + 40 psf SNOW	DL + LL + 60 psf SNOW	DL + LL + 70 psf SNOW	DL + LL + 90 psf SNOW	0.6 DL + 115 mph UPLIFT	0.6 DL + 150 mph UPLIFT	0.6 DL + 115 mph UPLIFT	0.6 DL + 150 mph UPLIFT
EXTERIOR WALL	435.3	932.4	983.3	1107.5	1087.5	1217.4	N/A	-76.2	-312.9	-154.1	-445.3
MATING WALL	83.4	200.6	206.6	223.5	196.1	208.6	N/A	0	-21.4	-7	-47

- NOTES:**
- MATING WALL LOADS ARE TOTAL FOR BOTH SIDES.
 - WIND PER ASCE 7-10, 115 & 150 mph, EXP. C, RISK CATEGORY II.
 - SNOW PER ASCE 7-10, Ct = 1.1, Ce = 1.0.
 - COMPONENT DESIGN IS BASED ON C & C PRESSURES
TRUSS UPLIFT CONNECTIONS ARE BASED ON MWFRS PRESSURES.
 - THIS TRUSS DESIGN MAY BE USED FOR LESSER SPANS PROVIDED NO MEMBER HAS A GREATER LENGTH AND ALL CONNECTIONS ARE AS SPECIFIED.

MAXIMUM INTERACTION & DEFLECTION:

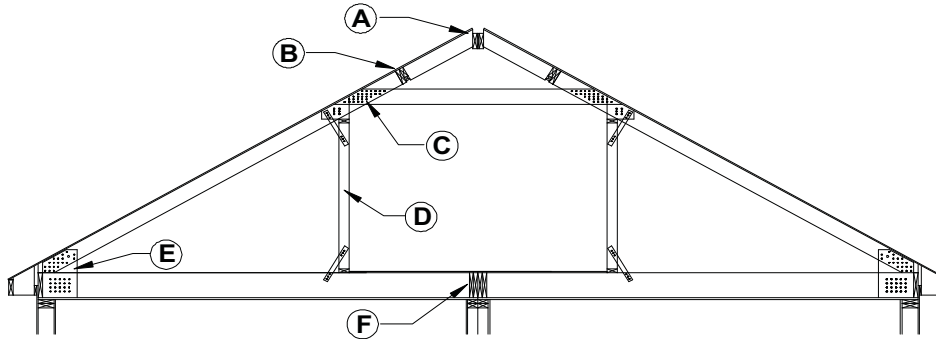
	MAXIMUM CSI	MAXIMUM DEFLECTION (in)	L / I
BOTTOM CHORD	0.86922	0.42228	409
TOP CHORD	0.97162	0.42514	527
WEB	0.12172	0.00	*****

**CONNECTIONS
TRUSS FRAMING**

LEGACY CUSTOM MODULAR HOMES

PROJECT NUMBER : 120111
 TRUSS NUMBER : TR7-27-6
 TRUSS PITCH : 7/12
 TRUSS SPACING : 16 in O.C.
 TRUSS SPAN : 27'-6"

DESIGN LOADS: 20 - 40 psf GROUND SNOW
 115 / 150 mph WIND



11/04/16

UPLIFT CONNECTIONS (MWFRS LOADS):

EXTERIOR WALL

115 mph WIND

UPLIFT DESIGN LOAD = 76.2 lbs
 BASED ON WIND LOAD $C_D = 1.6$

OK FOR 1 1/2" x 26ga STRAP

WITH 1 10 d NAILS EACH END

OR WITH 2 16 ga STAPLE EACH END

150 mph WIND

UPLIFT DESIGN LOAD = 312.9 lbs
 BASED ON WIND LOAD $C_D = 1.6$

OK FOR 1 1/2" x 26ga STRAP

WITH 4 10 d NAILS EACH END

OR WITH 6 16 ga STAPLE EACH END

MATING WALL (PER SIDE)

115 mph WIND

UPLIFT DESIGN LOAD = 0 lbs
 BASED ON WIND LOAD $C_D = 1.6$

OK FOR 1 1/2" x 26ga STRAP

WITH 0 10 d NAILS EACH END

OR WITH 0 16 ga STAPLE EACH END

150 mph WIND

UPLIFT DESIGN LOAD = 10.7 lbs
 BASED ON WIND LOAD $C_D = 1.6$

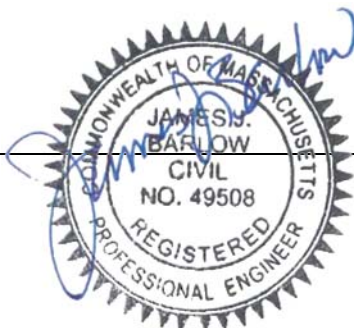
OK FOR 1 1/2" x 26ga STRAP

WITH 1 10 d NAILS EACH END

OR WITH 1 16 ga STAPLE EACH END



CONDITION "A" - RIDGE:	MEMBER: 14	START JOINT	
	MEMBER: 13	END JOINT	
SHEAR CONNECTION	<u>DL + LL & DL + 115 mph WIND</u>		
	MAX SHEAR DESIGN LOAD =	91.6 lbs	
	BASED ON SNOW LOAD	C _D = 1.15	
	USE 1	16 d NAILS INTO END GRAIN EACH END	
	USE 10 d NAILS AT	11 " O.C. THROUGH PLATES	
	<u>DL + LL & DL + 150 mph WIND</u>		
	MAX SHEAR DESIGN LOAD =	91.6 lbs	
	BASED ON SNOW LOAD	C _D = 1.15	
	USE 1	16 d NAILS INTO END GRAIN EACH END	
	USE 10 d NAILS AT	11 " O.C. THROUGH PLATES	
TENSION CONNECTION	<u>DL + LL & DL + 115 mph WIND</u>		
	MAX TENSION DESIGN LOAD =	49 lbs	
	BASED ON WIND LOAD	C _D = 1.6	
	OK FOR 1 1/2" x 26ga STRAP		
	WITH 1	6 d NAILS EACH END	
	OR	WITH 1	16 ga STAPLE EACH END
	ALTERNATE CONNECTION:	USE 1	8 d NAILS EACH END OF 1 x 4
	ALTERNATE CONNECTION:		
	USE 2	10 d NAILS TOENAILED THROUGH RAFTER INTO RIDGE PLATE	
	USE 10 d NAILS AT	29 " O.C. THROUGH PLATES	
*** FULL PENETRATION INTO PLATE IS REQUIRED			
<u>DL + LL & DL + 150 mph WIND</u>			
MAX TENSION DESIGN LOAD =	94.3 lbs		
BASED ON WIND LOAD	C _D = 1.6		
OK FOR 1 1/2" x 26ga STRAP			
WITH 2	6 d NAILS EACH END		
OR	WITH 2	16 ga STAPLE EACH END	
ALTERNATE CONNECTION:	USE 1	8 d NAILS EACH END OF 1 x 4	



11/04/16



CONDITION "B" - TOP CHORD FLIP:	MEMBER: 13 / 15	START JOINT
	MEMBER: 12 / 14	END JOINT
TENSION CONNECTION	<u>DL + LL & DL + 115 mph WIND</u>	
	MAX TENSION DESIGN LOAD =	38.5 lbs
	BASED ON WIND LOAD	C _D = 1.6
	USE 1	6 d NAILS THROUGH SHEATHING EACH SIDE
	OR	USE 1 16 ga STAPLE THROUGH SHEATHING EACH SIDE
	<u>DL + LL & DL + 150 mph WIND</u>	
	MAX TENSION DESIGN LOAD =	83.7 lbs
	BASED ON WIND LOAD	C _D = 1.6
	USE 2	6 d NAILS THROUGH SHEATHING EACH SIDE
	OR	USE 2 16 ga STAPLE THROUGH SHEATHING EACH SIDE
SHEAR CONNECTION	<u>DL + LL & DL + 115 mph WIND</u>	
	MAX SHEAR DESIGN LOAD =	91.6 lbs
	BASED ON SNOW LOAD	C _D = 1.15
	USE 1	16 d NAILS TOENAILED EACH END
		USE 10 d NAILS AT 11 " O.C. THROUGH PLATES
	<u>DL + LL & DL + 150 mph WIND</u>	
	MAX SHEAR DESIGN LOAD =	91.6 lbs
	BASED ON SNOW LOAD	C _D = 1.15
	USE 1	16 d NAILS TOENAILED EACH END
		USE 10 d NAILS AT 11 " O.C. THROUGH PLATES

CONDITION "C" - COLLAR TIE:	MEMBER: 23	START JOINT
	MEMBER: 23	END JOINT
	<u>DL + LL & DL + 115 mph WIND</u>	
	DESIGN LOAD =	856.8 lbs
	BASED ON SNOW LOAD	C _D = 1.15
	USE 7	16 d NAILS EACH END
		BEARING BLOCK NOT REQUIRED
	<u>DL + LL & DL + 150 mph WIND</u>	
	DESIGN LOAD =	856.8 lbs
	BASED ON SNOW LOAD	C _D = 1.15
	USE 7	16 d NAILS EACH END
		BEARING BLOCK NOT REQUIRED

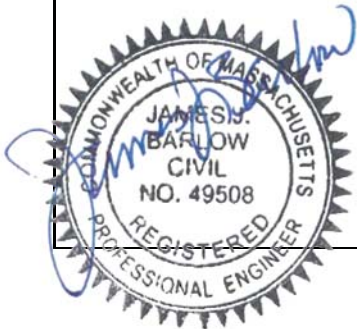


11/04/16



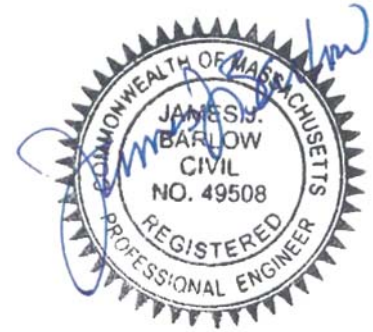
CONDITION "D" - KNEE WALLS:	MEMBER: 20 / 21	START	JOINT
	MEMBER: 20 / 21	END	JOINT
TENSION CONNECTION	<u>DL + LL & DL + 115 mph WIND</u>		
	DESIGN TENSION LOAD =	346.5 lbs	
	BASED ON SNOW LOAD	$C_D =$	1.15
	<u>OK FOR 1 1/2" x 26ga STRAP</u>		
	WITH	6	10 d NAILS EACH END
	OR	WITH	7 16 ga STAPLE EACH END
	<u>DL + LL & DL + 150 mph WIND</u>		
	DESIGN TENSION LOAD =	346.5 lbs	
	BASED ON SNOW LOAD	$C_D =$	1.15
	<u>OK FOR 1 1/2" x 26ga STRAP</u>		
	WITH	6	10 d NAILS EACH END
	OR	WITH	7 16 ga STAPLE EACH END

CONDITION "E" - HEEL:	MEMBER: 1 / 9	START	JOINT
	MEMBER: 8 / 18	END	JOINT
TOP CHORD	<u>DL + LL & DL + 115 mph WIND</u>		
	DESIGN LOAD =	943.4 lbs	
	BASED ON SNOW LOAD	$C_D =$	1.15
	USE	1	3/8" BOLT PLUS
		5	6 d NAILS PER GUSSETT EACH SIDE
	OR	7	16 ga STAPLE PER GUSSETT EACH SIDE
	<u>DL + LL & DL + 150 mph WIND</u>		
	DESIGN LOAD =	943.4 lbs	
	BASED ON SNOW LOAD	$C_D =$	1.15
	USE	1	3/8" BOLT PLUS
		5	6 d NAILS PER GUSSETT EACH SIDE
	OR	7	16 ga STAPLE PER GUSSETT EACH SIDE
BOTTOM CHORD	<u>DL + LL & DL + 115 mph WIND</u>		
	DESIGN LOAD =	951.3 lbs	
	BASED ON SNOW LOAD	$C_D =$	1.15
	USE	9	6 d NAILS PER GUSSETT EACH SIDE
	OR	USE	11 16 ga STAPLE PER GUSSETT EACH SIDE
	<u>DL + LL & DL + 150 mph WIND</u>		
	DESIGN LOAD =	951.3 lbs	
	BASED ON SNOW LOAD	$C_D =$	1.15
	USE	9	6 d NAILS PER GUSSETT EACH SIDE
	OR	USE	11 16 ga STAPLE PER GUSSETT EACH SIDE



11/04/16





11/04/16

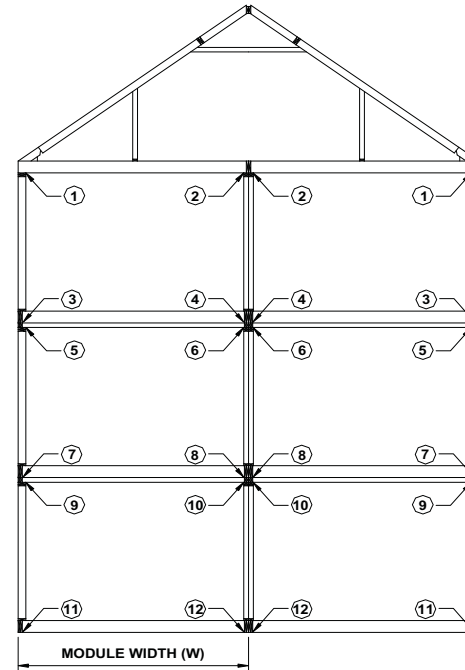
CONDITION "F" BOTTOM CHORD AT CENTER:	MEMBER:	5	START	JOINT
	MEMBER:	4	END	JOINT
<u>DL + LL & DL + 115 mph WIND</u>				
	DESIGN LOAD =	951.3	lbs	
	BASED ON SNOW LOAD	C _D =	1.15	
	USE	10	16 d NAILS THROUGH DECKING EACH SIDE	
<u>OR</u>	USE	1	DBL 1 1/2" x 20ga STRAP	
	WITH	9	10 d NAILS EACH END	
<u>OR</u>	WITH	18	16 ga STAPLE EACH END	
<u>DL + LL & DL + 150 mph WIND</u>				
	DESIGN LOAD =	951.3	lbs	
	BASED ON SNOW LOAD	C _D =	1.15	
	USE	10	16 d NAILS THROUGH DECKING EACH SIDE	
<u>OR</u>	USE	1	DBL 1 1/2" x 20ga STRAP	
	WITH	9	10 d NAILS EACH END	
<u>OR</u>	WITH	18	16 ga STAPLE EACH END	



**COMPONENT LOAD SUMMARY
FOLDING TRUSSES**

LEGACY CUSTOM MODULAR HOMES, LLC.

LOCATION 1 = EXT. WALL HEADER & EXT. WALL STUD 1 STORY & 2 OR 3 STORY UPPER LEVEL
LOCATION 2 = M. WALL HEADER & M. WALL STUD 1 STORY & 2 OR 3 STORY UPPER LEVEL
LOCATION 3 = PERIMETER BAND 1 STORY & 2 OR 3 STORY UPPER LEVEL
LOCATION 4 = CENTER GIRDER 1 STORY & 2 OR 3 STORY UPPER LEVEL
LOCATION 5 = EXT. WALL HEADER & EXT. WALL STUD 2 STORY LOWER & 3 STORY MIDDLE LEVEL
LOCATION 6 = M. WALL HEADER & M. WALL STUD 2 STORY LOWER & 3 STORY MIDDLE LEVEL
LOCATION 7 = PERIMETER BAND 2 STORY LOWER & 3 STORY MIDDLE LEVEL
LOCATION 8 = CENTER GIRDER 2 STORY LOWER & 3 STORY MIDDLE LEVEL
LOCATION 9 = EXT. WALL HEADER & EXT. WALL STUD 3 STORY LOWER LEVEL
LOCATION 10 = M. WALL HEADER & M. WALL STUD 3 STORY LOWER LEVEL
LOCATION 11 = PERIMETER BAND 3 STORY LOWER LEVEL
LOCATION 12 = CENTER GIRDER 3 STORY LOWER LEVEL
LOCATIONS 3, 4, 7, 8, 11 & 12 MAY BE USED TO GENERATE FOUNDATION LOADS



11/04/16



COMPONENT LOADS (lbs/ft)

TRUSS TR7-27-6, 7/12 PITCH, 27'-6" WIDTH, 20 psf GROUND SNOW

LOCATION 1		LOCATION 2		LOCATION 3		LOCATION 4		LOCATION 5		LOCATION 6		LOCATION 7		LOCATION 8		LOCATION 9		LOCATION 10		LOCATION 11		LOCATION 12	
LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL
373	864	44	92	648	1362	319	561	648	1414	319	612	923	1912	594	1080	923	1963	594	1132	1198	2461	869	1600
115 mph WIND UPLIFT LOADS												150 mph WIND UPLIFT LOADS											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
-116	-3	-27	-	-7	-	-	-	-	-	-	-	-334	-18	-245	-	-225	-	-135	-	-115	-	-25	-

TRUSS TR7-27-6, 7/12 PITCH, 27'-6" WIDTH, 30 psf GROUND SNOW

LOCATION 1		LOCATION 2		LOCATION 3		LOCATION 4		LOCATION 5		LOCATION 6		LOCATION 7		LOCATION 8		LOCATION 9		LOCATION 10		LOCATION 11		LOCATION 12	
LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL
411	902	46	94	686	1400	321	563	686	1452	321	614	961	1950	596	1082	961	2001	596	1134	1236	2499	871	1602
115 mph WIND UPLIFT LOADS												150 mph WIND UPLIFT LOADS											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
-116	-3	-27	-	-7	-	-	-	-	-	-	-	-334	-18	-245	-	-225	-	-135	-	-115	-	-25	-

TRUSS TR7-27-6, 7/12 PITCH, 27'-6" WIDTH, 40 psf GROUND SNOW

LOCATION 1		LOCATION 2		LOCATION 3		LOCATION 4		LOCATION 5		LOCATION 6		LOCATION 7		LOCATION 8		LOCATION 9		LOCATION 10		LOCATION 11		LOCATION 12	
LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL	LIVE	TOTAL
504	995	52	100	779	1493	327	569	779	1545	327	620	1054	2043	602	1088	1054	2094	602	1140	1329	2592	877	1608
115 mph WIND UPLIFT LOADS												150 mph WIND UPLIFT LOADS											
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
-116	-3	-27	-	-7	-	-	-	-	-	-	-	-334	-18	-245	-	-225	-	-135	-	-115	-	-25	-

Project: 6540

Location: CANTILEVER CALCS

Floor Joist


[2015 International Building Code(2012 NDS)]

(2) 1.5 IN x 9.25 IN x 12.084 FT (10.4 + 1.7) @ 16 O.C.

#2 - Spruce-Pine-Fir - Dry Use

Section Adequate By: 64.7%

Controlling Factor: Moment



Brett Hebert
Icon Legacy Custom Modular Homes, LLC
246 Sand Hill Road
Selinsgrove, PA 17870

page
/ of

StruCalc Version 9.0.2.5

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CAUTIONS

* Properly connect sheathing to double joists/rafters or fully laminate to transfer diaphragm forces.

DEFLECTIONS

	Center	Right
Live Load	-0.05 IN L/2410	0.05 IN 2L/802
Dead Load	-0.03 in	0.04 in
Total Load	-0.08 IN L/1524	0.09 IN 2L/460
Live Load Deflection Criteria:	L/360	Total Load Deflection Criteria: L/240

REACTIONS

	A	B
Live Load	278 lb	1153 lb
Dead Load	-3 lb	900 lb
Total Load	275 lb	2053 lb
Uplift (1.5 F.S)	-118 lb	0 lb
Bearing Length	0.22 in	1.61 in

SUPPORT LOADS

	A	B
Live Load	209 plf	865 plf
Dead Load	-2 plf	675 plf
Total Load	206 plf	1540 plf

MATERIAL PROPERTIES

#2 - Spruce-Pine-Fir

	Base Values	Adjusted
Bending Stress:	Fb = 875 psi	Fb' = 1069 psi
	Cd=1.00 Cl=0.97 CF=1.10 Cr=1.15	
Shear Stress:	Fv = 135 psi	Fv' = 135 psi
	Cd=1.00	
Modulus of Elasticity:	E = 1400 ksi	E' = 1400 ksi
Comp. \perp to Grain:	Fc \perp = 425 psi	Fc \perp ' = 425 psi

Controlling Moment:

-2313 ft-lb

10.42 Ft from left support of span 2 (Center Span)

Created by combining all dead loads and live loads on span(s) 3

Controlling Shear:

1449 lb

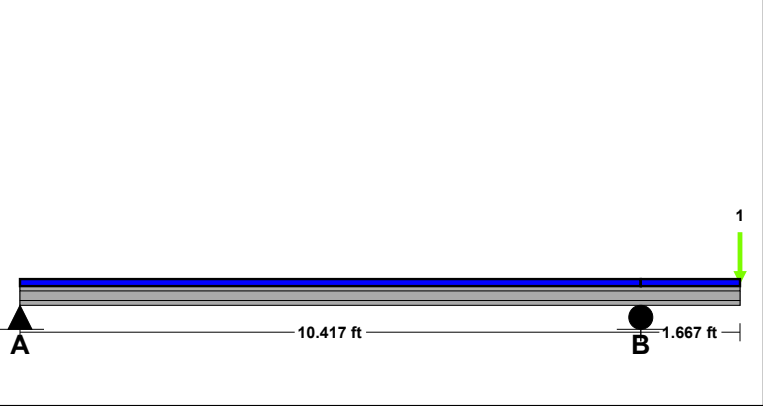
At left support of span 3 (Right Span)

Created by combining all dead loads and live loads on span(s) 2, 3

Comparisons with required sections:

	Req'd	Provided
Section Modulus:	25.97 in3	42.78 in3
Area (Shear):	16.1 in2	27.75 in2
Moment of Inertia (deflection):	103.21 in4	197.86 in4
Moment:	-2313 ft-lb	3811 ft-lb
Shear:	1449 lb	2498 lb

LOADING DIAGRAM



JOIST DATA

	Center	Right
Span Length	10.42 ft	1.67 ft
Unbraced Length-Top	0 ft	0 ft
Unbraced Length-Bottom	0 ft	0 ft
Floor sheathing applied to top of joists-top of joists fully braced.		
Floor Duration Factor	1.00	

JOIST LOADING

	Center	Right
Uniform Floor Loading		
Live Load	LL = 40 psf	40 psf
Dead Load	DL = 15 psf	15 psf
Total Load	TL = 55 psf	55 psf
TL Adj. For Joist Spacing wT =	73.3 plf	73.3 plf
Wall Loading		
Wall One		
Live Load (\perp to Joists):	L1 = 0 plf	504 plf
Dead Load (\perp to Joists):	D1 = 0 plf	491 plf
Load Location	X1 = 0 ft	1.67 ft

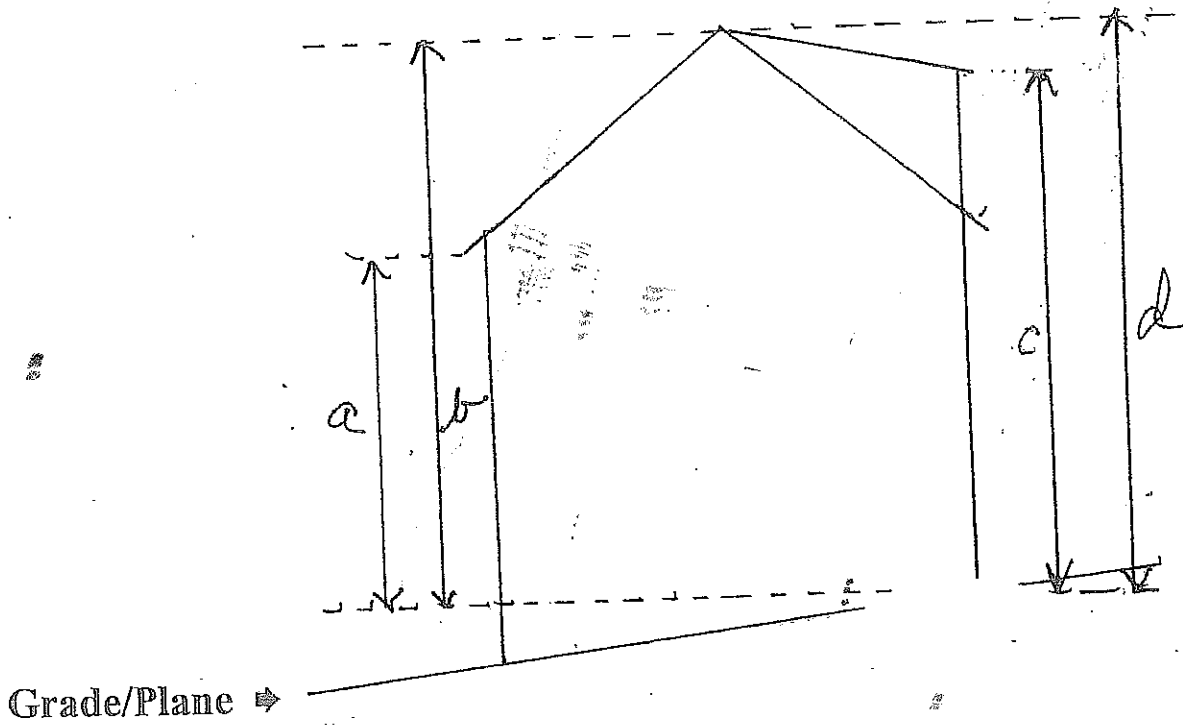
NOTES



11/14/16

How To Determine Average Height

Building height is determined by measuring



→ $\frac{a + b}{2} = \text{average height without dormer} \Rightarrow \frac{(2'-4'' + 8'-6'' + 8'-0'') + (28'-9'')}{2} = 23'-8''$

$\frac{c + d}{2} = \text{average height with dormer}$

Dormers not exceeding height c
right as long as they don't exceed 25% of area
of the roof

DENIED

DATE ISSUED: _____ FEE PAID: _____ NO.: _____

APPLICATION FOR PERMIT TO BUILD

To the Building Commissioner:

Date: _____

The undersigned hereby applies for a permit to Build - Alter - Remodel, etc., according to information indicated in this application and plans and specifications submitted herewith.

RECEIVED
TOWN OF WESTWOOD
COMMISSIONER OF BUILDING
JUL 6 2016

PLEASE PRINT CLEARLY

IMPORTANT - Applicant to complete all items in sections I, II, III, IV, AND V

I. LOCATION OF BUILDING

STREET ADDRESS <u>471 EAST ST</u>	R. SIDE YARD SETBACK _____
(NO.) (STREET)	L. SIDE YARD SETBACK _____
ZONING DISTRICT _____ LOT FRONTAGE _____	REAR YARD SETBACK _____
ASSESSORS MAP # _____ LOT# _____ LOT SIZE _____	FRONT YARD SETBACK _____

II. TYPE AND COST OF BUILDING - All applicants complete Parts A - D.

A. TYPE OF IMPROVEMENT 1 New Building 2 Addition 3 Alteration 4 Repair, replacement 5 Wrecking <i>0585</i> 6 Moving (relocation) <i>0585</i> 7 Foundation only 8 Pools, Fences, Towers Tennis Courts, etc.	D. PROPOSED USE - For "Wrecking" most recent use RESIDENTIAL 13 One Family 14 Two or more family - Enter number of units 15 Transient Hotel, motel, or dormitory - Enter number of units 16 Garage 17 Carport 18 Other - Specify _____ _____ _____	NONRESIDENTIAL 19 Amusement, recreational 20 Church, other religious 21 Industrial 22 Parking garage 23 Service station, repair garage 24 Hospital, Institutional 25 Office, bank, professional 26 Public Utility 27 School, library, other educational 28 Stores, mercantile 29 Tanks, towers 30 Other - Specify _____
B. OWNERSHIP 9 Private (Individual, Corporation, nonprofit Institution, ect.) 10 Public (Federal, State or Local Government)		

C. COST 11 Cost of Basic Construction \$ _____ <small>To be installed but not included in the above cost</small> a. Electrical \$ _____ b. Plumbing _____ c. Heating, air conditioning _____ d. Other (elevator, etc.) _____ 12 TOTAL COST OF IMPROVEMENT \$ <u>150,000</u>	(Omit cents)	E. TYPE OF OCCUPANCY OR USE; NEW HOME, ETC. Briefly outline scope and nature of work to be done. <u>ADDING SECOND FLOOR ON TOP OF EXISTING HOUSE</u>
---	--------------	---

III. SELECTED CHARACTERISTICS OF BUILDING For new buildings and additions, complete Parts E-L; for wrecking, complete only Part J, for all others skip to IV.

F. PRINCIPAL TYPE OF FRAME 31 Masonry 32 Wood frame 33 Structural steel 34 Reinforced concrete 35 Other - Specify _____	H. TYPE OF SEWAGE DISPOSAL 41 Public Sewer 42 Private (septic tank, etc.) I. TYPE OF WATER SUPPLY 43 Public or Private Company 44 Private (well)	K. DIMENSIONS 49 Number of stories _____ 50 Total sq.ft. of floor area, all floors, based on exterior dimensions _____ 51 Total land area, sq.ft. _____ L. NUMBER OF OFF - STREET PARKING SPACES 52 Enclosed _____ 53 Outdoors _____ M. RESIDENTIAL BUILDINGS ONLY 54 No. of bedrooms _____ 55 No. of baths: Full _____ Partial _____
G. PRINCIPAL TYPE OF HEATING FUEL 36 Gas 38 Electricity 40 Other - Specify _____ 37 Oil 39 Coal	J. TYPE OF MECHANICAL Will there be air conditioning? 45 Yes 46 No Will there be an elevator? 47 Yes 48 No	

471 East

IV. TO BE COMPLETED BY ALL APPLICANTS

USE N/A IF NOT APPLICABLE


1. Will building be erected on solid or filled land _____ If filled land how long ago filled _____
2. Will foundation be laid on earth, rock, timber, piles _____
3. Foundation material _____
4. Roof (flat, pitched) _____
5. Roof covering _____
6. Will all construction to be performed conform to State and Local Building Codes _____
7. Has the applicant complied with the Architectural Access Code _____
8. Does this Building or Structure conform to the Zoning Bylaw _____
9. Has the applicant complied with the Energy Code _____
10. Is this property in the FLOOD PLAIN AREA _____

THIS IS A TRUE STATEMENT SIGNED UNDER PENALTIES OF PERJURY

V. IDENTIFICATION - To be completed by all applicants - Complete street and mailing addresses

	NAME	COMPLETE ADDRESS	HOME & BUS. PHONE
Owner or Lessee	BECHARA DEMIEN	471 EAST ST WESTWOOD MA 02090	617-818-8357 857-352-8445
Builder/ Contractor	AVALON BUILD SYSTEM	3 PORTER ST SUITE 201 STOUGHTON MA 02072	781-344-4875
Architect/ Engineer	ICON LEGACY	246 SAND HILL RD SELINGROVE, PA 17870	570-374-3280

I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent.

Signature of Applicant 	Address 471 EAST ST, Westwood MA	Application Date 07/07/2016
---	-------------------------------------	--------------------------------


This permit is approved subject to the provisions of all Federal and State Laws, Rules & Regulations and Con. Com. approval.

Sewer Permit No.
Sanitary Permit No. (Title V)
Highway Dept. Permit
Fire Dept. Permit
Water District Permit
CONTRACTOR LICENSING INFORMATION
Construction Supervisor License No.
Date of Expiration
Home Improvement Contractor No.
Date of Expiration

COMMENTS - DEPARTMENT USE ONLY

BUILDING COMMISSIONER'S DENIAL
 REQUIRES SPECIAL PERMITS
 UNDER SECTION 4.5.6
 RAISING HEIGHT IN SETBACKS

I have reviewed the applicant's request for a Building Permit and determined that it be forwarded to the Zoning Board of Appeals


 BUILDING COMMISSIONER

7/19/16

A. I hereby certify under penalty of perjury that I carry Workers' Compensation Insurance Coverage.

Signature: _____

Name of Insurance Company: _____

Policy Number: _____ Expiration Date: _____

B. I do not carry Workers' Compensation Coverage as I am an unincorporated sole proprietorship with no employees, using other self-employed sub-contractors for all work.

Signature _____

BERDI CONSULTING

25 WAYLAND HILLS ROAD, WAYLAND MA 01778 TEL: (508) 308-9012

To whom it may concern

Date: Aug 23, 2015

Re: Second floor addition at 471 East St., Westwood, MA 02090

The structural engineering evaluation (visual) of the property located at 471 East St., Westwood, MA, was conducted to assess the possibility of the second floor addition to the existing "raised ranch" style house. The existing house has approximately 23'x30' rectangular plan with a 1st floor foyer (11'x6') addition at the front.

The assessment yields the following findings:

1. The house has a foundation wall built of 8" thick cast-in-place concrete. The foundation walls are in satisfactory condition and do not exhibit any signs of deterioration. A few hair thin vertical cracks do not affect the carrying capacity of the foundation. The visible parts of the sill plate are in good condition. The first floor joists are adequate to the span and are in good condition. The central beam is enclosed and cannot be evaluated; after the project is finalized the central beam might require some additional intermediate supports or reinforcement. The foyer part of the house is supported by two corner posts built of CMU 8x8x16 blocks.
2. The walls of the first floor are constructed of 2x4 @16" o.c. studs. The walls are capable of carrying additional loads from the proposed second floor. The window headers must be reevaluated after the project is finalized.
3. According to the provided drawings the second floor addition will be comprised of two prefabricated modular units. Each unit has its own floor structure, thus, no additional load is transferred to the existing ceiling joists. No reinforcement of the existing ceiling is necessary.

The assessment shows that the existing structure, including the building foundation, is capable of supporting an additional floor.

Sincerely,

Stanislav Berdichevsky P.E.

25 Wayland Hills Rd.
Wayland MA 01778

508-308-9012

