

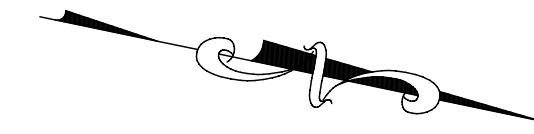
EXISTING ZONING ANALYSIS

ZONE: R-5	SCHEDULE OF REQUIREMENTS					
	BUILDING HEIGHT FEET	MIN. LOT SIZE AREA (MIN.)	LOT WIDTH FEET	LOT DEPTH FEET	BUILDING COVERAGE %	IMPERVIOUS SURFACE %
REQUIRED	2 1/2 / 30'	5,000 SF	50 FT	100 FT	30%	—
EXISTING	1 / 16'	13,068 SF	90 FT	144.74 FT	10.6%	15.6%

MINIMUM YARD DIMENSIONS (FT.)				
MINIMUM FRONT SETBACK (DEPTH)	SIDE YARD	SIDE YARD (COMBINED)	MINIMUM REAR YARD (DEPTH)	
REQUIRED	30'	8'	18'	30'
EXISTING	30.7'	9.8'	38.9'	72.58'

EXISTING IMPERVIOUS SURFACE
 EXISTING BUILDING FOOTPRINT: 1,391.13 SF
 EXISTING PLATFORMS AND WALLS: 387 SF
 EXISTING DRIVEWAY AND WALKS: 356 SF
 EXISTING IMPERVIOUS SURFACE TOTAL: 2,134.13 SF

AREA OF LAND: 13,068 SF
 IMPERVIOUS SURFACE EQUALS = 16.3%



PROPOSED ZONING ANALYSIS

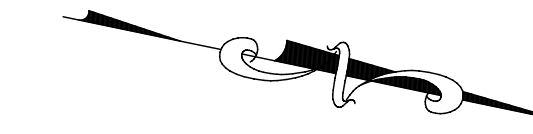
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EXISTING	1 / 16'	13,068 SF	90 FT	144.74 FT	10.6%	15.6%
PROPOSED	2 / 16'	NO CHANGE	NO CHANGE	NO CHANGE	11.1%	16.04%

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MINIMUM FRONT SETBACK (DEPTH)	SIDE YARD	SIDE YARD (COMBINED)	MINIMUM REAR YARD (DEPTH)	
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PROPOSED	NO CHANGE	NO CHANGE	NO CHANGE	NO CHANGE

PROPOSED IMPERVIOUS SURFACE
 PROPOSED BUILDING FOOTPRINT: 1,455.13 SF
 PROPOSED PLATFORMS AND WALLS: 387 SF
 PROPOSED DRIVEWAY AND WALKS: 356 SF
 PROPOSED IMPERVIOUS SURFACE TOTAL: 2,198.13 SF

AREA OF LAND: 13,068 SF
 IMPERVIOUS SURFACE EQUALS = 16.8%

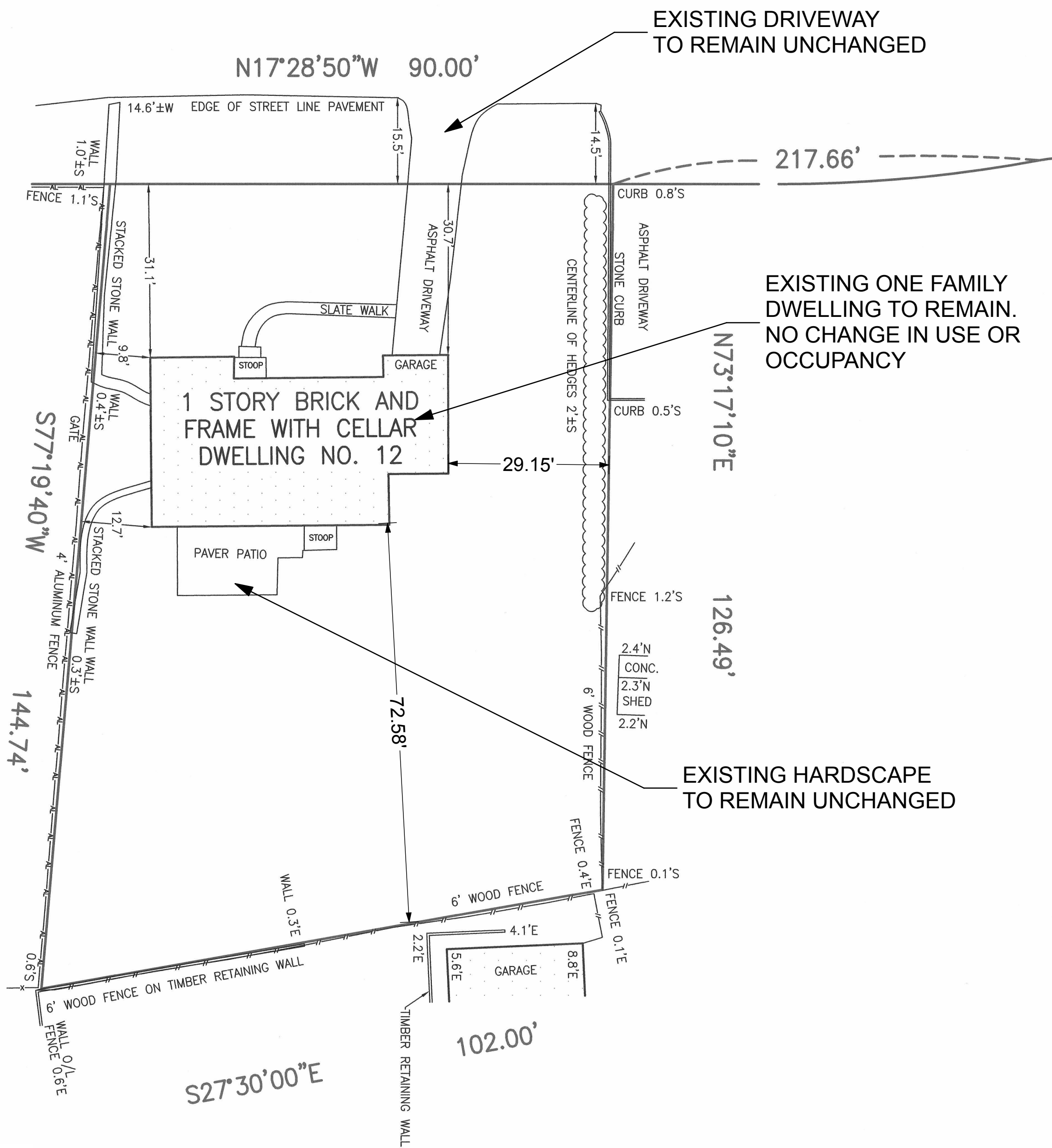
NET INCREASE OF 64 SF



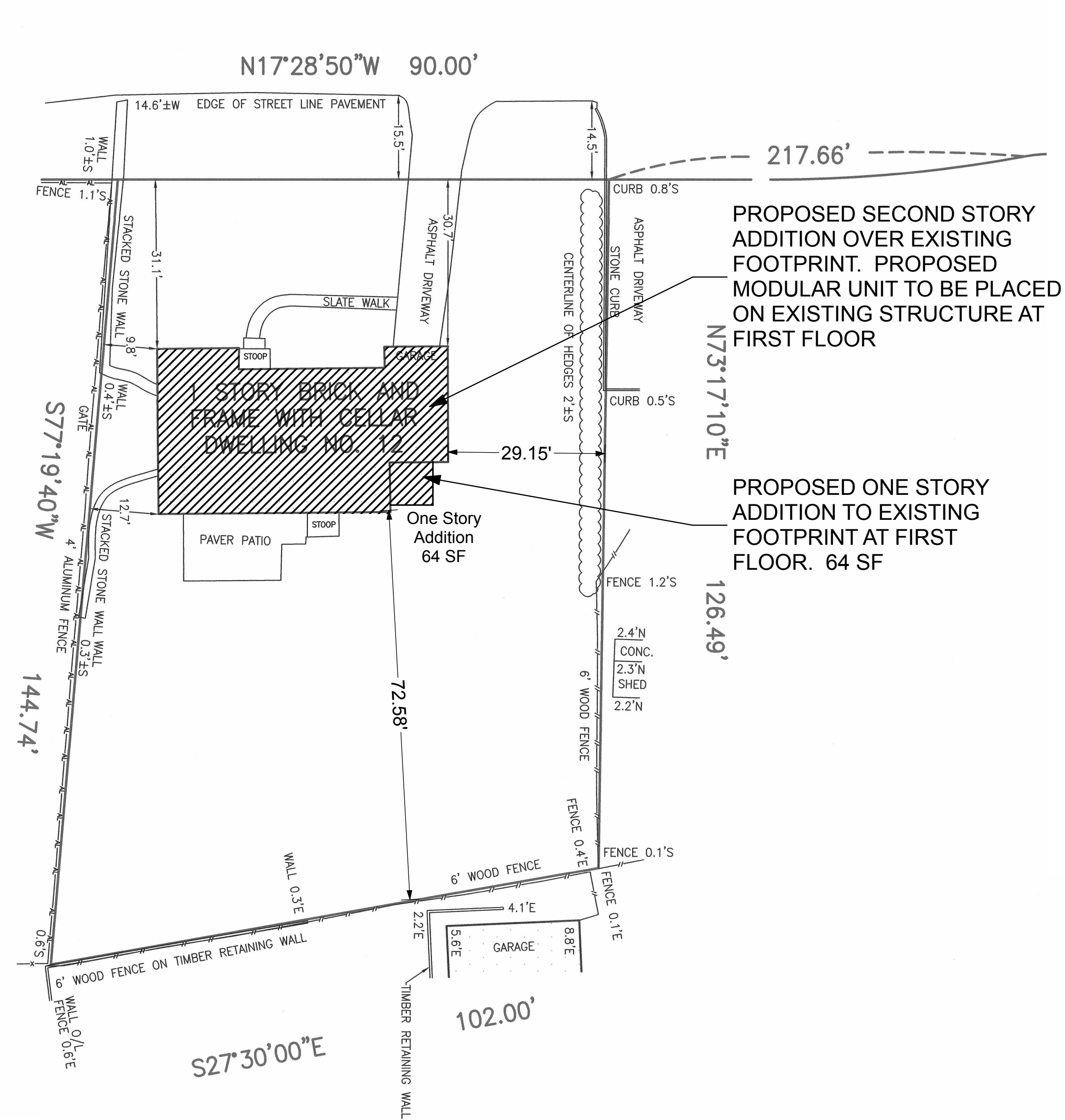
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 jmvarch@gmail.com

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FREEDOM ROAD



FREEDOM ROAD



PROJECT
DIBENEDETTO RESIDENCE
ADDITION AND ALTERATIONS TO EXISTING
STRUCTURE
12 FREEDOM ROAD
WHITE PLAINS, NEW YORK, 10603

NO.	ISSUE	DATE
1.	ORIGINAL	4/25/22
2.	REVISION	
3.	REVISION	
4.	REVISION	
5.	REVISION	
6.	REVISION	
7.	REVISION	

IN ASSOCIATION WITH:
John J. Annunziata, P.E.
 24 Chesley Road
 White Plains, N.Y., 10605
 P-914-949-0270
 F-914-428-6235

SCALE:	DATE:	PROJECT NO.:
AS NOTED	4/25/22	
DRAWN BY: JV	CHECKED BY:	APPROVED BY:

DRAWING TITLE:
EXISTING SITE PLAN

DRAWING NO.:
A.003

GENERAL SITE NOTES:

- EXISTING SITE ELEVATIONS ARE TO REMAIN UNCHANGED.
- ACCESS TO SITE FOR EXCAVATION EQUIPMENT SHALL BE OVER EXISTING LAWN AREA FROM BEVERLY DRIVE.
- THIS SUBJECT PARCEL WILL BE SERVED BY TOWN WATER AND TOWN SEWER.
- ALL GROUND AREAS DISTURBED DURING CONSTRUCTION SHALL BE RE-GRADED, MULCHED AND SEEDED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION PHASE.
- ANY EXCESS MATERIAL EXCAVATED DURING CONSTRUCTION SHALL BE DISPOSED OF LEGALLY OFF-SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES AND PROVISIONS SHALL BE MAINTAINED IN OPERATIONAL CONDITION BY THE GENERAL CONTRACTOR UNTIL FINAL COMPLETION OF THE PROJECT.
- NO PROPOSED REMOVAL OF EXISTING TREES.



EXISTING SITE PLAN AND PROPOSED SITE PLAN 13,068 SF
 SCALE: 1/16" = 1' - 0"

EXISTING ZONING ANALYSIS

ZONE: R-5	SCHEDULE OF REQUIREMENTS					
	BUILDING HEIGHT FEET	MIN. LOT SIZE AREA (MIN.)	LOT WIDTH FEET	LOT DEPTH FEET	BUILDING COVERAGE %	IMPERVIOUS SURFACE %
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PROPOSED ZONING ANALYSIS

ZONE: R-5	SCHEDULE OF REQUIREMENTS					
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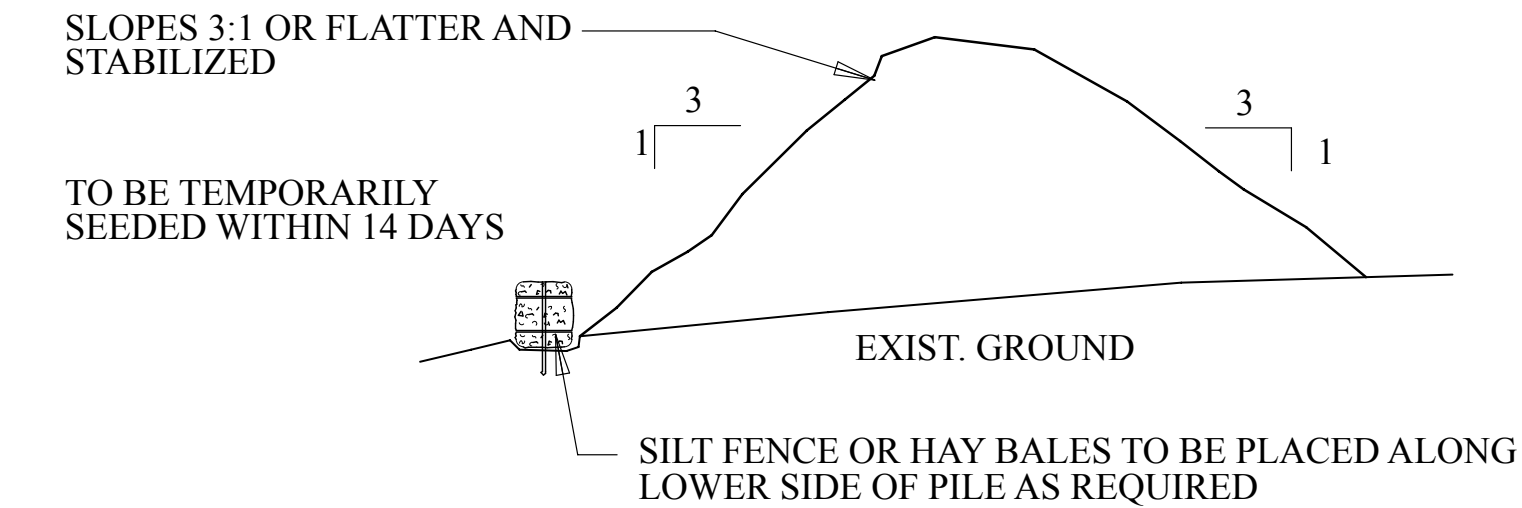
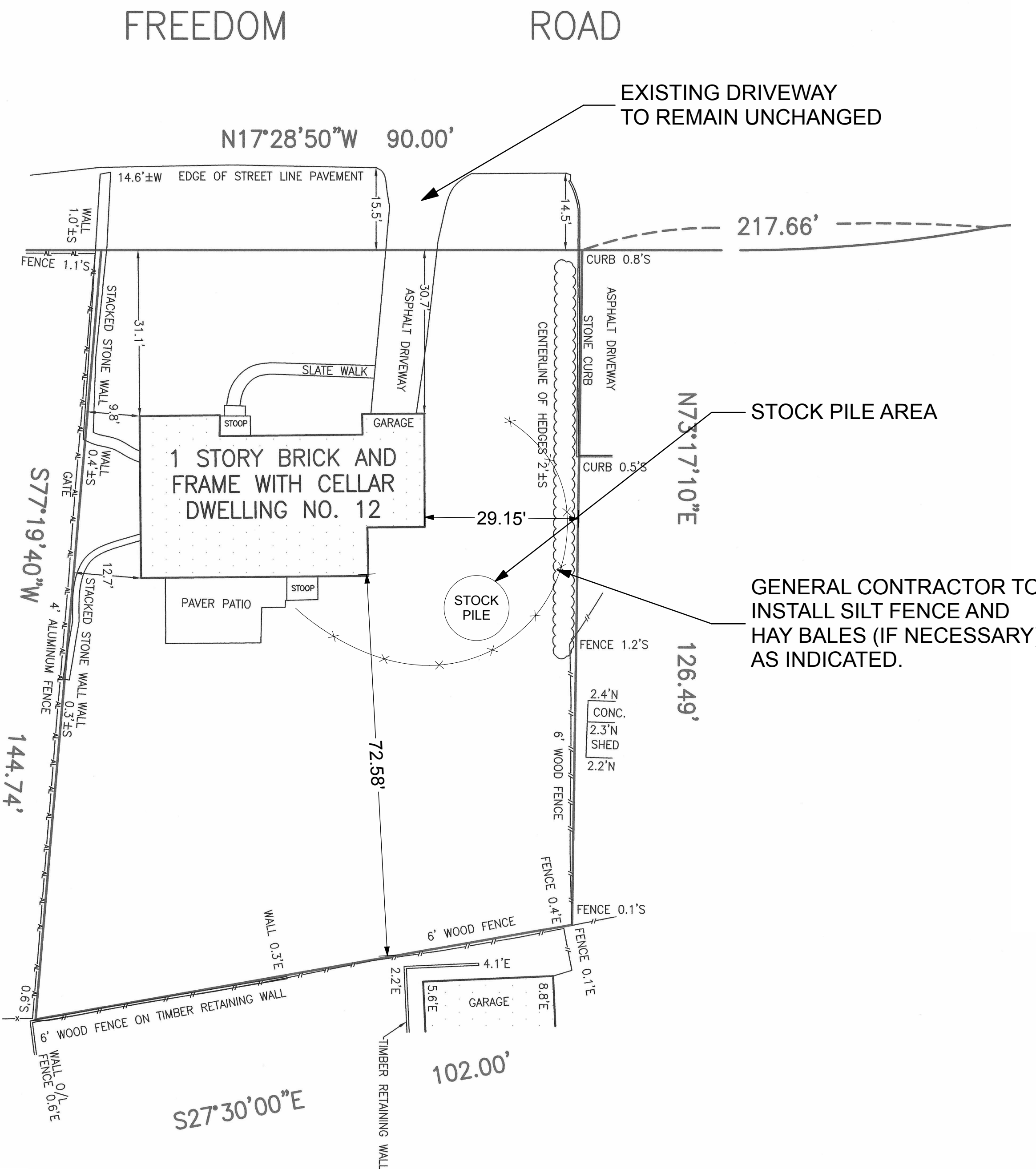
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NET INCREASE OF 64 SF

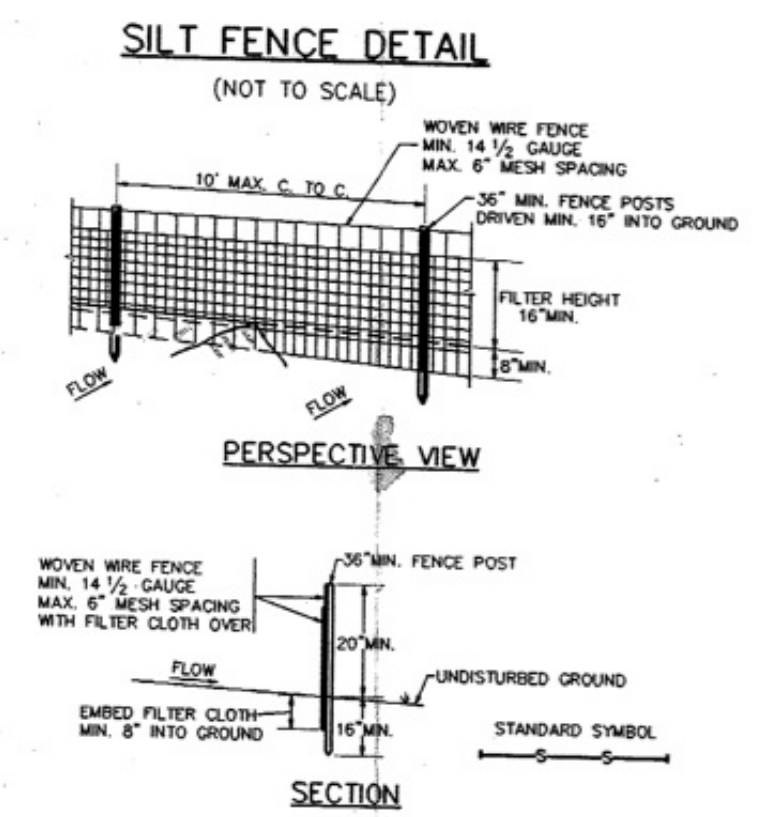
STAGING AND EROSION CONTROL

1. INSTALL SEDIMENTATION AND EROSION CONTROLS AND TREE PROTECTION AS NEEDED THROUGHOUT.
2. PRIOR TO DEMOLITION THE GENERAL CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT.
3. BACKFILL WITH CLEAN COMPACTED SOIL FILL AS DIRECTED.
4. MARK AND CUT TREES TO BE REMOVED IF NECESSARY.
5. STRIP TOP SOIL AND STOCK PILE IT WITH APPROPRIATE SEDIMENTATION CONTROL MEASURES.
6. EXCAVATE FOR PROPOSED FOUNDATION.
7. CONSTRUCT FOUNDATION.
8. BACKFILL AND ROUGH GRADE AROUND BUILDING FOUNDATION AND STABILIZE ALL SLOPES.



- INSTALLATION NOTES**
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2
 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STARWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

B STOCK PILING DETAIL TYP.
 SCALE: NTS



C EROSION CONTROL DETAIL
 SCALE: NTS

A EROSION CONTROL PLAN
 SCALE: 1/16" = 1' - 0"

13,068 SF



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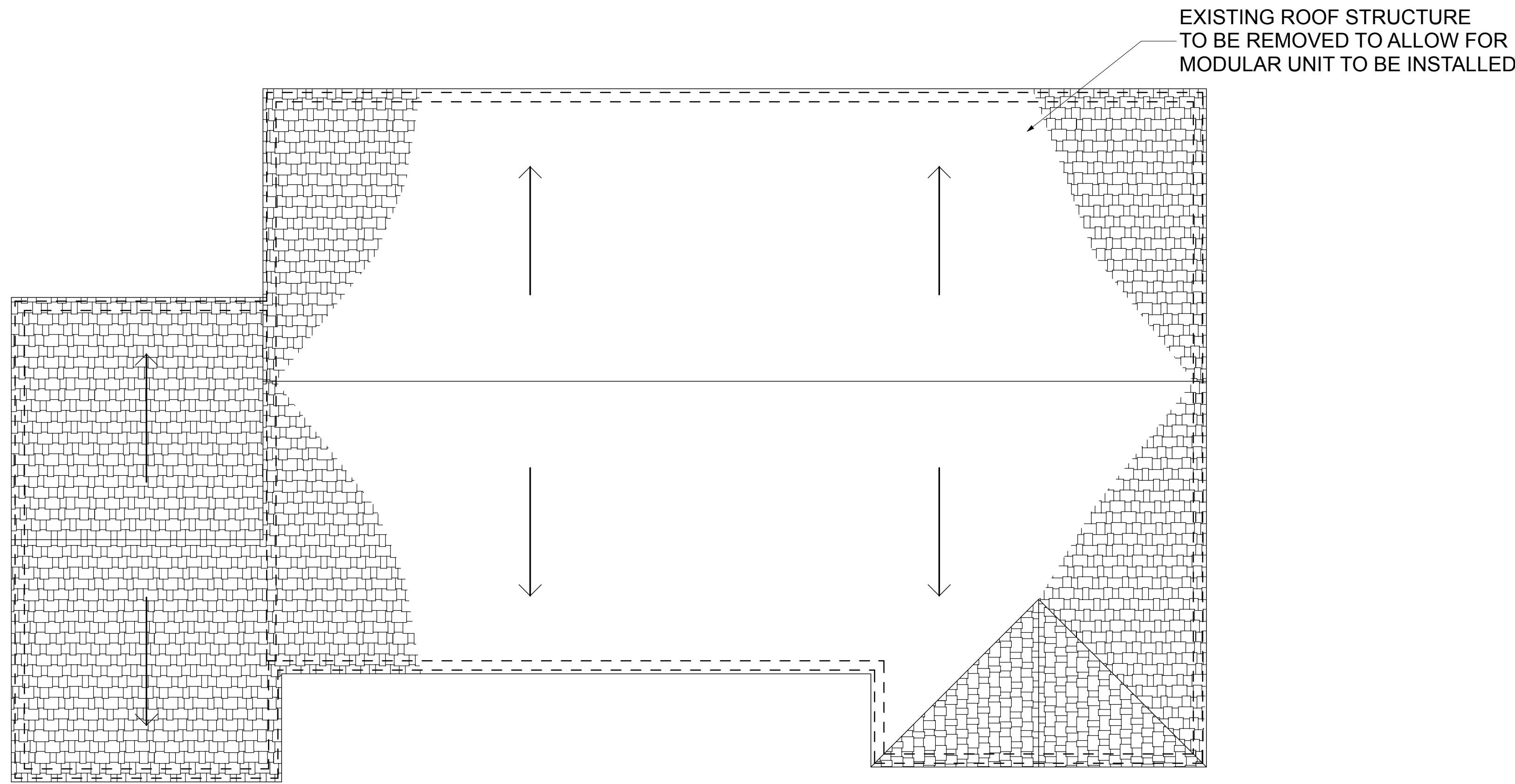
**DIBENEDETTO RESIDENCE
 ADDITION AND ALTERATIONS TO EXISTING
 STRUCTURE
 12 FREEDOM ROAD
 WHITE PLAINS, NEW YORK, 10603**

NO.	ISSUE	DATE
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2.	REVISION	
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IN ASSOCIATION WITH:
John J. Annunziata, P.E.
 24 Chesley Road
 White Plains, N.Y., 10605
 P-914-949-0270
 F-914-428-6235

SCALE:	DATE:	PROJECT NO.:
AS NOTED	4/25/22	
DRAWN BY: JV	CHECKED BY:	APPROVED BY:
DRAWING TITLE: EROSION CONTROL PLAN		

DRAWING NO.: **A.004**

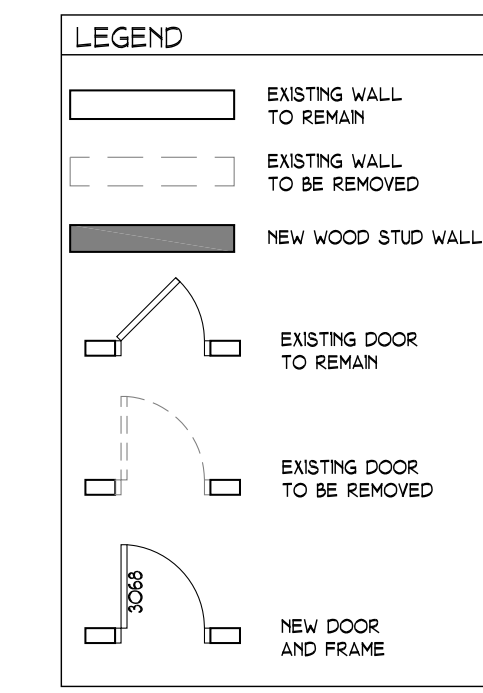


DEMOLITION NOTES

1. G.C. TO REMOVE ITEMS AS INDICATED ON DEMOLITION PLAN UNLESS OTHERWISE NOTED.
2. G.C. TO PROTECT ANY AND ALL ITEMS TO BE REUSED THROUGHOUT CONSTRUCTION PHASE.
3. G.C. TO REMOVE ALL PLUMBING FIXTURES AND ASSOCIATED PIPING AS NECESSARY. RADIATORS TO BE REPLACED IN SAME LOCATIONS.
4. G.C. TO REPLACE MECHANICAL SYSTEMS TO ACCOMMODATE REPAIRS.
5. G.C. TO PROVIDE ALL TEMPORARY WATERPROOFING DUE TO REMOVAL OF VENTS AND EXHAUST FANS FROM EXISTING ROOF THROUGHOUT CONSTRUCTION PHASE.
6. G.C. TO HAVE FIRE EXTINGUISHERS ON PREMISES THROUGHOUT CONSTRUCTION PHASE AS SAFETY PRECAUTION.
7. G.C. TO PROVIDE HARD HATS AND GOGGLES TO ALL WORKERS THROUGHOUT DEMOLITION AS WELL CONSTRUCTION.
8. G.C. TO PROVIDE ALL PROTECTIVE BARRIERS TO LIMIT ACCESS THROUGHOUT CONSTRUCTION PHASE.
9. G.C. TO MAINTAIN A SAFE AND CLEAR PEDESTRIAN PATH THROUGH CONSTRUCTION AREA THROUGHOUT DURATION OF PROJECT.

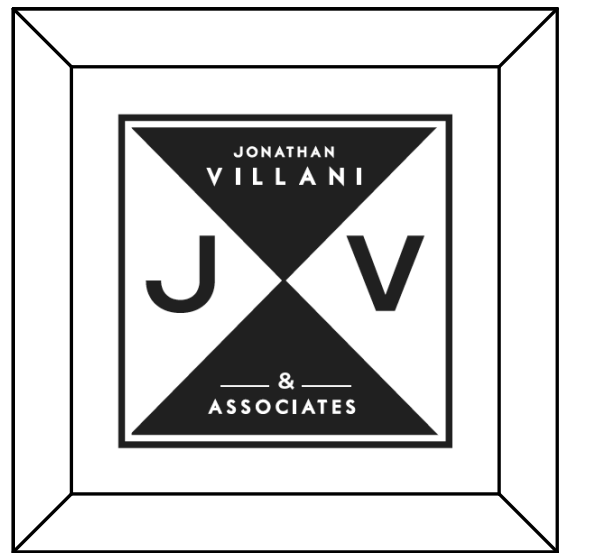
CLEANING:

1. MAINTAIN PREMISES AND PUBLIC PROPERTIES FREE FROM ACCUMULATIONS OF WASTE, DEBRIS AND RUBBISH CAUSED BY OPERATIONS.
2. AT COMPLETION OF WORK, REMOVE WASTE MATERIALS, RUBBISH, TOOLS, EQUIPMENT, MACHINERY AND SURPLUS MATERIALS, AND CLEAN ALL SIGHT EXPOSED SURFACES; LEAVE PROJECT CLEAN AND READY FOR FOR OCCUPANCY.



- NOTES:**
1. CONTRACTOR SHALL ADHERE TO ALL CODES, RULES AND REGULATIONS GOVERNING CONSTRUCTION AS SET BY AUTHORITIES HAVING JURISDICTION.
 2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS ON DRAWINGS SHALL TAKE PRECEDENCE.
 3. CONTRACTOR TO VERIFY ALL DIMENSIONS, ROUGH OPENING SIZES AND OTHER PENETRATIONS AGAINST REQUIREMENTS OF SPECIFIED PRODUCTS, CONDITIONS, ELEVATIONS, ETC. PERTAINING TO WORK BEFORE PROCEEDING.
 4. ALL OPENINGS SHALL BE CALKED, SEALED, OR WEATHER STRIPPED.
 5. PROVIDE SIMPSON CONNECTORS AT ALL FLUSH FRAMED CONDITIONS AND FOR POST BASES.

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



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**DIBENEDETTO RESIDENCE
ADDITION AND ALTERATIONS TO EXISTING
STRUCTURE
12 FREEDOM ROAD
WHITE PLAINS, NEW YORK, 10603**

NO.	ISSUE	DATE
1.	ORIGINAL	4/25/22
2.	REVISION	
3.	REVISION	
4.	REVISION	
5.	REVISION	
6.	REVISION	
7.	REVISION	

IN ASSOCIATION WITH:
John J. Annunziata, P.E.
24 Chesley Road
White Plains, N.Y., 10605
P-914-949-0270
F-914-428-6235



SCALE: AS NOTED	DATE: 4/25/22	PROJECT NO.:
DRAWN BY: JV	CHECKED BY:	APPROVED BY:
DRAWING TITLE: EXISTING FLOOR PLANS		

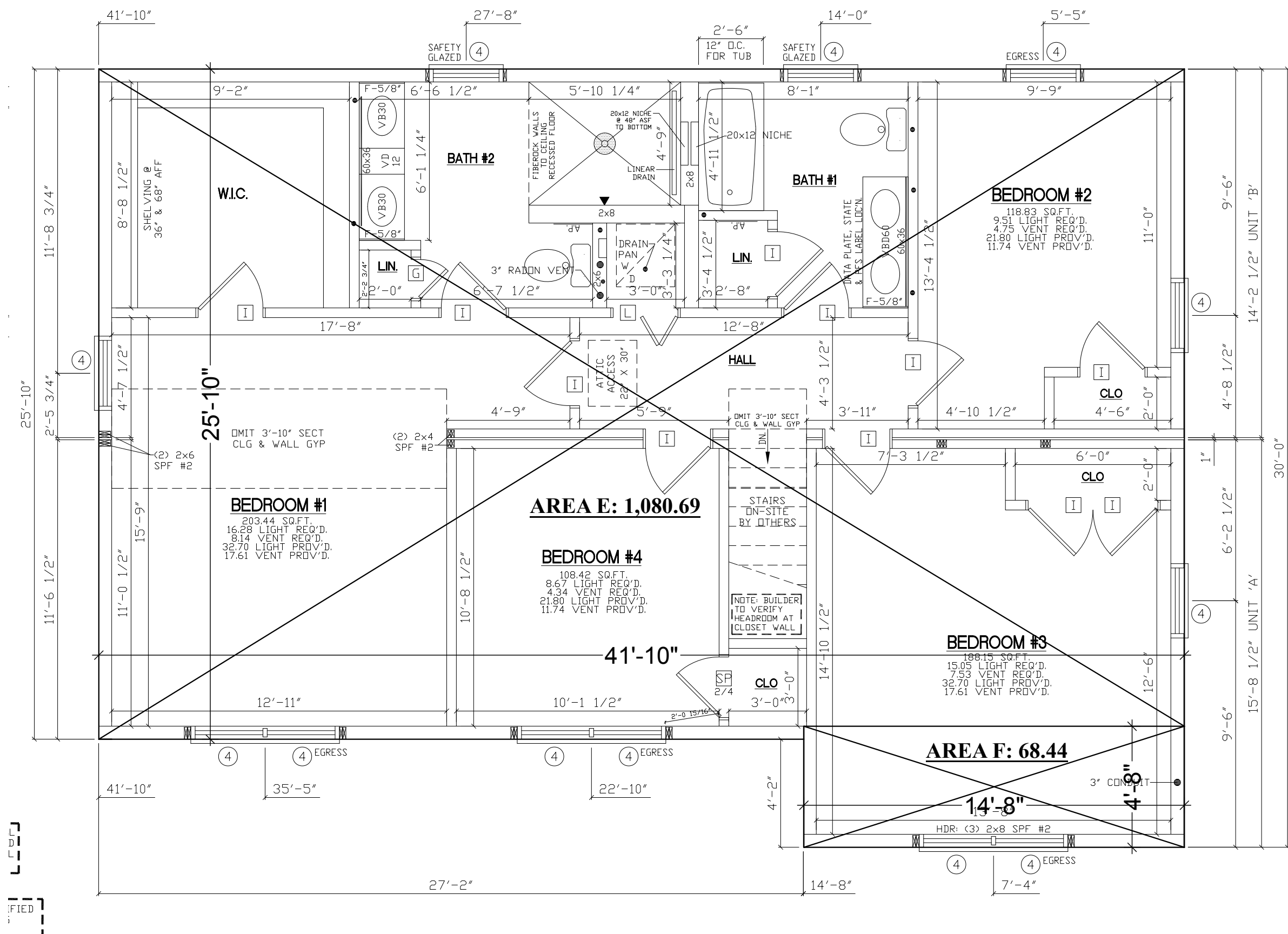
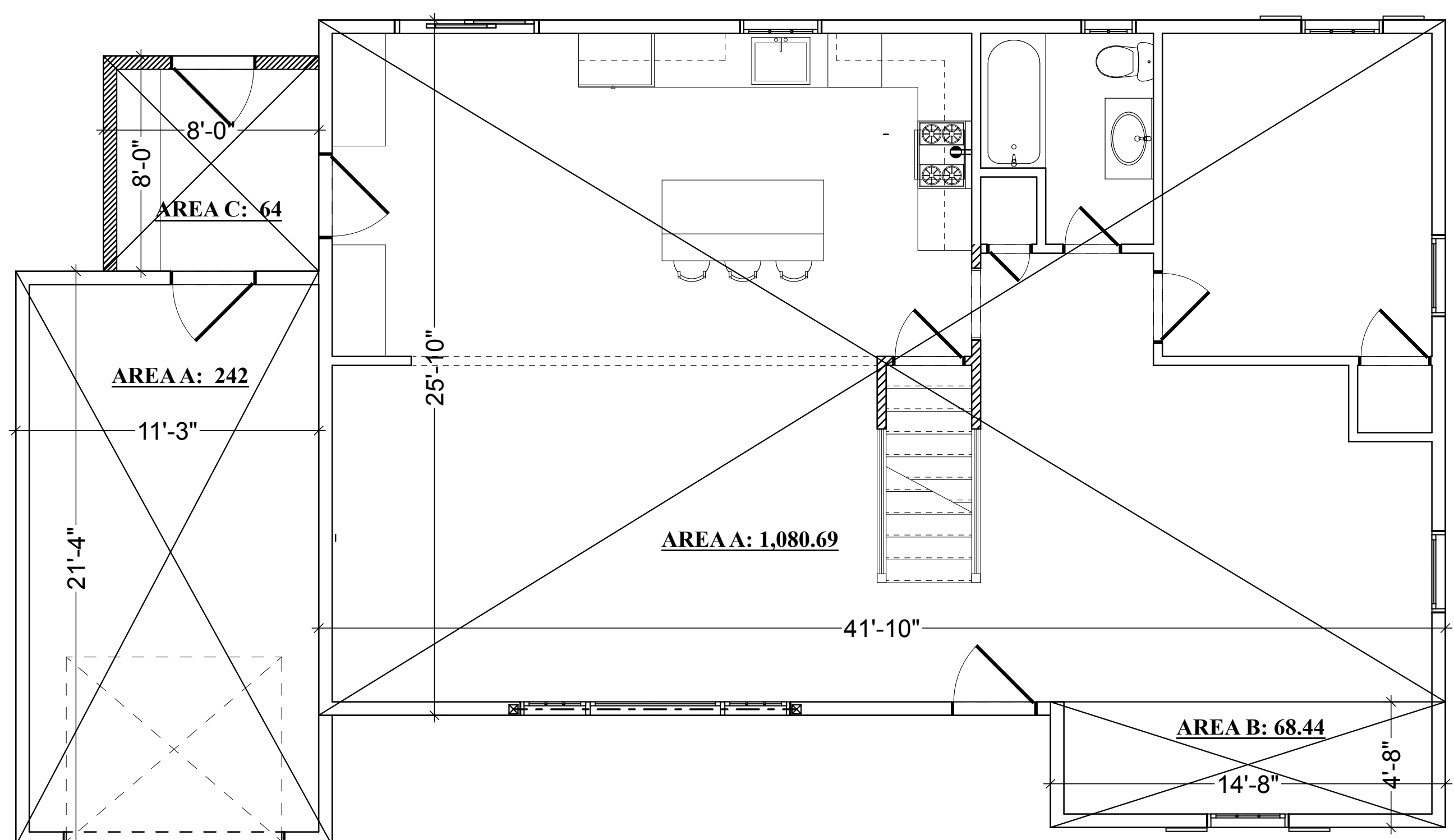
DRAWING NO: **A.006**



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**DIBENEDETTO RESIDENCE
ADDITION AND ALTERATIONS TO EXISTING
STRUCTURE
12 FREEDOM ROAD
WHITE PLAINS, NEW YORK, 10603**



FLOOR AREA RATIO:

AREA A: 1,080.69 SF
AREA B: 68.44 SF
AREA C: 242 SF
AREA D: 64 SF
AREA E: 1,080.69 SF
AREA F: 68.44 SF
TOTAL: 2,604.26 SF

MAXIMUM FAR = 4,363 SF
PROPOSED FAR = 2,604.26

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



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3.	REVISION	
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5.	REVISION	
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IN ASSOCIATION WITH:
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24 Chesley Road
White Plains, N.Y., 10605
P-914-949-0270
F-914-428-6235

SCALE: AS NOTED	DATE: 4/25/22	PROJECT NO.:
DRAWN BY: JV	CHECKED BY:	APPROVED BY:

DRAWING TITLE:
FAR DIAGRAM

DRAWING NO.:
A.012



TOWN OF NORTH CASTLE

WESTCHESTER COUNTY
17 Bedford Road
Armonk, New York 10504-1898

RESIDENTIAL PROJECT
REVIEW COMMITTEE
Adam R. Kaufman AICP, Chair

Telephone: (914) 273-3000 x43
Fax: (914) 273-3554
www.northcastleny.com

RESIDENTIAL PROJECT REVIEW COMMITTEE (RPRC) PROCEDURES

The RPRC was created to streamline the residential review process and quickly reviews all residential projects. Projects determined to have no impact are permitted to apply to the Building Department while more complicated projects are directed to the appropriate review board(s).

THE RPRC reviews all applications for residential permits (including, but not limited to, buildings permits, steep slope permits, wetlands permits and pool permits), but excluding permits only relating to interior alterations/renovations.

To get on an RPRC agenda you must submit a single PDF file containing the following to the Planning Department:

- ✓ 1. Complete all items on the RPRC checklist
- ✓ 2. RPRC Application fee. Check made payable to: Town of North Castle.
- ✓ 3. Floor Area and Gross Land Coverage work sheets (with backup information)
- ✓ 4. Plans for your project according the RPRC Checklist
- ✓ 5. Submit one single PDF file containing all information listed above to the Planning Department: planning@northcastleny.com.

Once your application has been submitted, you may follow your application on the RPRC webpage located at <http://www.northcastleny.com/residential-project-review-committee-rprc>

Determination Letters are posted on the website (click on determination letters, find the date of your meeting and click on the name of your project - Letters are posted the day after the meeting, typically by 1 :00 p.m.)



TOWN OF NORTH CASTLE

WESTCHESTER COUNTY
17 Bedford Road
Armonk, New York 10504-1898

RESIDENTIAL PROJECT
REVIEW COMMITTEE
Adam R. Kaufman AICP, Chair

Telephone: (914) 273-3000 x 43
Fax: (914) 273-3554
www.nortcastleny.com

RESIDENTIAL PROJECT REVIEW COMMITTEE (RPRC) APPLICATION

Section I- PROJECT

ADDRESS: 12 Freedom Road, White Plains NY 10603

Section III- DESCRIPTION OF WORK:

Second story addition to existing one family dwelling. No change in use or occupancy.

Section III- CONTACT INFORMATION:

APPLICANT: JONATHAN Villani
ADDRESS: 15 Independence St., White Plains NY 10605
PHONE: 914-437-8729 MOBILE: 914-575-1071 EMAIL: jmvarch@gmail.com

PROPERTY OWNER: CHRISTOPHER DiBenedetto
ADDRESS: 12 Freedom Road, White Plains NY 10603
PHONE: 914-423-3824 MOBILE: — EMAIL: cd@nycarcs.com

PROFESSIONAL: John J. Annunziata P.E.
ADDRESS: 24 Chesley Road, White Plains NY 10605
PHONE: 914-949-0270 MOBILE: 914-575-1071
EMAIL: jmvarch@gmail.com

Section IV- PROPERTY INFORMATION:

Zone: R-5 Tax ID (lot designation) 122.16 / 4 / 48



**Town of North Castle
Residential Project Review Committee**

17 Bedford Road Armonk, New York 10504
(914) 273-3542 (914) 273-3554 (fax)

RPRC COMPLETENESS REVIEW FORM

This form represents the standard requirements for a completeness review for all Residential Project Review Committee submissions. Failure to provide all of the information requested will result in a determination that the application is incomplete.

Project Name on Plan:

D. Benedetto Residence

Initial Submittal Revised Preliminary

Street Location:

12 Freedom Road, White Plains, NY 10603

Zoning District: R-5 Property Acreage: 0.3 Tax Map Parcel ID: 122.16/4/48

Date: 4/27/22

DEPARTMENTAL USE ONLY

Date Filed: _____ Staff Name: _____

Preliminary Plan Completeness Review Checklist

Items marked with a are complete, items left blank are incomplete and must be completed, "NA" means not applicable.

1. Plan prepared by a registered architect or professional engineer
2. Aerial photo (Google Earth) showing the applicant's entire property and adjacent properties and streets
3. Map showing the applicant's entire property and adjacent properties and streets
4. A locator map at a convenient scale
5. The proposed location, use and design of all buildings and structures
6. Existing topography and proposed grade elevations
7. Location of drives
8. Location of all existing and proposed site improvements, including drains, culverts, retaining walls and fences

RPRC COMPLETENESS REVIEW FORM

Page 2

- 9. Description of method of water supply and sewage disposal and location of such facilities
- 10. The name and address of the applicant, property owner(s) if other than the applicant and of the planner, engineer, architect, surveyor and/or other professionals engaged to work
- 1. Submission of a Zoning Conformance Table depicting the plan's compliance with the minimum requirements of the Zoning District
- 2. If a tree removal permit is being sought, submission of a plan depicting the location and graphical removal status of all Town-regulated trees within the proposed area of disturbance. In addition, the tree plan shall be accompanied by a tree inventory includes a unique ID number, the species, size, health condition and removal status of each tree.
- 3. If a wetlands permit is being sought, identification of the wetland and the 100-foot wetland buffer.

More information about the items required herein can be obtained from the North Castle Planning Department. A copy of the Town Code can be obtained from Town Clerk or on the North Castle homepage: <http://www.northcastleny.com/townhall.html>

_____ On this date, all items necessary for a technical review of the proposed site plan have been submitted and constitute a COMPLETE APPLICATION.



TOWN OF NORTH CASTLE
 WESTCHESTER COUNTY
 17 Bedford Road
 Armonk, New York 10504-1898

PLANNING DEPARTMENT
 Adam R. Kaufman, AICP
 Director of Planning

Telephone: (914) 273-3542
 Fax: (914) 273-3554
 www.northcastleny.com

GROSS LAND COVERAGE CALCULATIONS WORKSHEET

Application Name or Identifying Title: Dibenedetto Residence Date: 4/27/22


Tax Map Designation or Proposed Lot No.: 122.16/4/48

Gross Lot Coverage

1. Total lot Area (Net Lot Area for Lots Created After 12/13/06): 13,068 SF
2. **Maximum** permitted gross land coverage (per Section 355-26.C(1)(b)): 4,736.32 SF
3. **BONUS** maximum gross land cover (per Section 355-26.C(1)(b)):
 Distance principal home is beyond minimum front yard setback
1 x 10 = 10 SF 10 SF
4. **TOTAL Maximum Permitted gross land coverage** = Sum of lines 2 and 3 _____
5. Amount of lot area covered by **principal building**:
1,391.13 existing + 64 proposed = 1,455.13 SF
6. Amount of lot area covered by **accessory buildings**:
0 existing + 0 proposed = 0 SF
7. Amount of lot area covered by **decks**:
0 existing + 0 proposed = 0 SF
8. Amount of lot area covered by **porches**:
0 existing + 0 proposed = 0 SF
9. Amount of lot area covered by **driveway, parking areas and walkways**:
356 existing + 0 proposed = 356 SF
10. Amount of lot area covered by **terraces**:
292 existing + 0 proposed = 292 SF
11. Amount of lot area covered by **tennis court, pool and mechanical equip**:
0 existing + 0 proposed = 0 SF
12. Amount of lot area covered by **all other structures**:
95 existing + 0 proposed = 95 SF
13. Proposed **gross land coverage**: Total of Lines 5 – 12 = 3,198.13 SF

If Line 13 is less than or equal to Line 4, your proposal **complies** with the Town's maximum gross land coverage regulations and the project may proceed to the Residential Project Review Committee for review. If Line 13 is greater than Line 4 your proposal does not comply with the Town's regulations.

Signature and Seal of Professional Preparing Worksheet



5/4/22
 Date



TOWN OF NORTH CASTLE
 WESTCHESTER COUNTY
 17 Bedford Road
 Armonk, New York 10504-1898

PLANNING DEPARTMENT
 Adam R. Kaufman, AICP
 Director of Planning

January 29, 2019
 Telephone: (914) 273-3542
 Fax: (914) 273-3554
www.northcastleny.com

FLOOR AREA CALCULATIONS WORKSHEET

Application Name or Identifying Title: D. Benedetto Residence Date: 4/27/22

Tax Map Designation or Proposed Lot No.: 122.16/4/48

Floor Area

- 1. Total Lot Area (Net Lot Area for Lots Created After 12/13/06): 13,068 SF
- 2. **Maximum** permitted floor area (per Section 355-26.B(4)): 4,363 SF
- 3. Amount of floor area contained within first floor:
 - 1,149.13 existing + 64 proposed = 1,213.13 SF
- 4. Amount of floor area contained within second floor:
 - 0 existing + 0 proposed = 1,149.13 SF
- 5. Amount of floor area contained within garage:
 - 242 existing + 0 proposed = 242 SF
- 6. Amount of floor area contained within porches capable of being enclosed:
 - 0 existing + 0 proposed = 0 SF
- 7. Amount of floor area contained within basement (if applicable – see definition):
 - 0 existing + 0 proposed = 0 SF
- 8. Amount of floor area contained within attic (if applicable – see definition):
 - 0 existing + 0 proposed = 0 SF
- 9. Amount of floor area contained within all accessory buildings:
 - 0 existing + 0 proposed = 0 SF
- 10. Proposed **floor area**: Total of Lines 3 – 9 = 2,604.26 SF

If Line 10 is less than or equal to Line 2, your proposal **complies** with the Town's maximum floor area regulations and the project may proceed to the Residential Project Review Committee for review. If Line 10 is greater than Line 2 your proposal does not comply with the Town's regulations.

[Handwritten signature in blue ink]



5/4/22
 Date

Signature and Seal of Professional Preparing Worksheet

DRAWING LIST	
ARCHITECTURAL DRAWINGS	
COVER SHEET	A.001
GENERAL NOTES	A.002
EXISTING SITE PLAN AND PROPOSED SITE PLAN	A.003
EROSION CONTROL PLAN	A.004
EXISTING FLOOR PLANS	A.005
EXISTING FLOOR PLANS	A.006
PROPOSED FLOOR PLANS	A.007
ELEVATIONS	A.008
ELEVATIONS	A.009
SECTIONS AND DETAILS	A.010
ELECTRICAL PLAN	A.011

ADDITIONS AND ALTERATIONS
TO AN EXISTING
ONE-FAMILY DWELLING
DIBENEDETTO RESIDENCE
12 FREEDOM ROAD
WHITE PLAINS, NY, 10603

- ELECTRICAL WORK TO BE FILED UNDER SEPARATE APPLICATION.
- PLUMBING WORK TO BE FILED UNDER SEPARATE APPLICATION.

NOTE:
MEP CONTRACTORS WILL BE REQUIRED TO PREPARE AND SUBMIT MECHANICAL DRAWINGS, SPECIFICATIONS AND EQUIPMENT DATA TO DEMONSTRATE FULL ENERGY CODE COMPLIANCE.

DRAWINGS FOR AREA VARIANCES



LOCATION

GENERAL CONDITIONS:

1. THE GENERAL CONDITIONS ARE HEREBY MADE AN ADMINISTRATIVE PART OF THESE DRAWINGS, AS IF HEREIN WRITTEN IN FULL.
2. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
3. LARGER SCALE DETAILS SHALL HAVE PRECEDENCE OVER SMALLER SCALE DRAWINGS. IT IS THE INTENTION OF THE DRAWINGS TO PROVIDE FOR A COMPLETE JOB IN ALL RESPECTS AND NO EXTRAS WILL BE ALLOWED FOR MATERIALS AND/OR LABOR REQUIRED TO COMPLETE THE WORK AS INDICATED.
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ENGINEER'S OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS. PROVIDE DIMENSIONS SUBJECT TO ACTUAL FIELD CONDITIONS AND NO CREDITS OR EXTRAS WILL BE ALLOWED FOR DISCREPANCIES UP TO 1'-0" IN ANY MEASUREMENT.
5. CONSTRUCTION SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES, ORDINANCES, RULES AND REGULATIONS. CONTRACTOR SHALL ARRANGE FOR ALL NECESSARY PERMITS AND INSPECTIONS INCLUDING THE OCCUPANCY CERTIFICATE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTION AND MISALIGNMENT ACCORDING TO APPLICABLE CODES, STANDARDS AND GOOD PRACTICE.
7. IF NECESSARY CONTRACTOR SHALL DISCONNECT, CAP AND REROUTE ANY EXISTING WATERLINES, SANITARY OR UTILITY LINES IN AREA OF NEW FOUNDATIONS AND SHALL USE HAND EXCAVATION IN AREAS OF SUSPECTED UNDER GROUND UTILITIES AND SERVICES. IF ANY LINES ARE BROKEN OR DAMAGED, THE CONTRACTOR WILL REPAIR AND REPLACE SAME AT HIS OWN EXPENSE AND ARRANGE FOR PROPER INSPECTION OF HIS WORK.
8. THE INSTALLATION OF ALL MATERIALS AND PRODUCTS SHALL MEET ALL LOCAL FIRE DEPARTMENT'S REQUIREMENTS AND REGULATIONS, PROOF OF WHICH SHALL BE FURNISHED TO THE LOCAL MUNICIPALITY PRIOR TO THE INSTALLATION OF SUCH MATERIALS.
9. ALL ELECTRIC WORK SHALL CONFORM TO RULES AND REGULATIONS OF THE 2020 RESIDENTIAL BUILDING CODE OF NYS, THE 2017 NATIONAL ELECTRIC CODE AND N.Y. STATE BOARD OF FIRE UNDERWRITERS. THE FINAL CERTIFICATE OF APPROVAL MUST BE PRESENTED TO THE OWNER PRIOR TO FINAL PAYMENT.
10. ALL PLUMBING WORK SHALL CONFORM TO RULES AND REGULATIONS OF THE 2020 RESIDENTIAL BUILDING CODE OF NYS. THE FINAL CERTIFICATE OF APPROVAL MUST BE PRESENTED TO THE OWNER PRIOR TO FINAL PAYMENT.
11. THE ENTIRE PREMISES, INSIDE AND OUT, SHALL BE CLEANED OF ALL DEBRIS AND EXCESS MATERIALS, TO THE SATISFACTION OF THE OWNER, INCLUDING LABELS AND PROTECTIVE COATINGS ON ALL MATERIALS.
13. REQUEST FOR FINAL PAYMENT MUST BE ACCOMPANIED WITH A WAIVER OF LIENS, SIGNED BY ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS, IN ADDITION TO THE GENERAL CONTRACTOR.

14. ALL REQUIRED AND NECESSARY PERMITS SHALL BE SECURED FROM ALL MUNICIPAL AGENCIES HAVING JURISDICTION AT THE COST AND EXPENSE OF THE CONTRACTOR AND PRIOR TO START OF WORK AND SHALL OBTAIN APPROVAL OF ALL COMPLETED WORK AS REQUIRED BY ADMINISTRATIVE CODE AND ALL REQUIRED AGENCIES.
15. EACH CONTRACTOR WILL BE HELD RESPONSIBLE FOR HIS/HER WORK. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE BUILDINGS AND WILL BE RESPONSIBLE FOR THE JOINING OF WORK OF ALL TRADES.
16. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE REQUIREMENTS OF "SAFETY OF PUBLIC AND PROPERTY DURING CONSTRUCTION OPERATIONS" AND SHALL BE HELD RESPONSIBLE FOR THE SAFE MAINTENANCE AS PRESCRIBED THEREIN UNTIL COMPLETION OF WORK.
17. THE CONTRACTOR OR PERSON WHO SUPERVISED THE WORK IS REQUIRED TO BE PRESENT AT FINAL INSPECTION WITH THE BUILDING DEPARTMENT INSPECTOR.
18. THE ARCHITECT/ENGINEER HAS NOT BEEN RETAINED TO SUPERVISE ANY CONSTRUCTION OR INSTALLATION OF ANY EQUIPMENT.
19. THE OWNER SHALL BE RESPONSIBLE FOR THE SAFE MAINTENANCE OF THE BUILDING AND IT'S FACILITIES.
20. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO NEW YORK STATE FIRE PREVENTION AND 2020 RESIDENTIAL BUILDING CODE OF NYS.
21. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS AND STANDARDS OF THE BUILDING CODE ZONING RESOLUTION. IT SHALL ALSO BE THE CONTRACTORS RESPONSIBILITY TO SEEK CERTIFICATION OF THE AFOREMENTIONED SECTIONS, REQUIREMENTS AND STANDARDS.
22. CONTRACTOR SHALL VISIT THE SITE, CHECK AND VERIFY CONDITIONS, FAMILIARIZE HIMSELF/HERSELF WITH EXISTING CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND CORRELATE HIS/HER OBSERVATIONS WITH THE REQUIREMENTS OF THE PLANS. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER IMMEDIATELY.
23. CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ALL THE ACTS AND OMISSIONS OF ALL HIS EMPLOYEES AND SUB-CONTRACTORS, THEIR AGENTS AND ALL OTHER PERSONS PERFORMING ANY OF THE WORK TO BE DONE.
24. CONTRACTOR SHALL PURCHASE AND MAINTAIN SUCH INSURANCE AS WILL PROTECT HIM/HER RESULT FROM THE CONTRACTORS OPERATIONS, WHETHER BE HIMSELF/HERSELF, SUB-CONTRACTOR, OR BY ANY OF THEM FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE.
25. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS OF PUBLIC AUTHORITY HAVNG JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY & TO PROTECT THEM FROM DAMAGE, INJURY OR LOSS.
26. CONTRACTOR SHALL PROPERLY CLEAN UP DURING PROCESS OF WORK. CONTRACTOR, UPON COMPLETION OF WORK, SHALL LEAVE PREMISES CLEAN, NEAT AND ORDERLY.
27. CONTRACTOR SHALL GIVE ALL NOTICES.
28. UTILITY CONNECTIONS TO BE FILED UNDER SEPARATE APPLICATION.

ADDRESS: 12 Freedom Road
White Plains, NY 10603
ZONE : R-5 BLOCK : 4
SECTION : 122.16 LOT : 48

ZONING & BUILDING CODES:

1. ZONING: R-5, CONSTRUCTION CLASSIFICATION IS VB.
2. THIS STRUCTURE IS DESIGNED TO CONFORM TO THE 2020 RESIDENTIAL BUILDING CODE OF NYS, THE 2020 IECC, 2017 NEC AND THE TOWN CODE OF NORTH CASTLE.
3. THIS STRUCTURE IS DESIGNED TO MEET OR EXCEED THE CURRENT MINIMUM ENERGY AND MECHANICAL CODES.
4. ALL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK TO BE INSTALLED BY LICENSED CONTRACTORS. CONTRACTORS TO REVIEW DRAWINGS, NOTES, SHEETS AND ATTACHED DETAILS.



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PROJECT:
DIBENEDETTO RESIDENCE
ADDITION AND ALTERATIONS TO EXISTING
STRUCTURE
12 FREEDOM ROAD
WHITE PLAINS, NEW YORK, 10603

NO.	ISSUE	DATE
1.	ORIGINAL	4/25/22
2.	REVISION	
3.	REVISION	
4.	REVISION	
5.	REVISION	
6.	REVISION	

IN ASSOCIATION WITH:
John J. Annunziata, P.E.
24 Chesley Road
White Plains, N.Y., 10605
P-914-949-0270
F-914-428-6235

SCALE: AS NOTED	DATE: 4/25/22	PROJECT NO.:
DRAWN BY: JV	CHECKED BY:	APPROVED BY:
DRAWING TITLE: COVER SHEET		

DRAWING NO:
A.001

GENERAL CONSTRUCTION NOTES

ADMINISTRATION
 1. THE GENERAL NOTES CONTAINED HEREIN ARE PART OF THE PLANS AND SPECIFICATIONS, AND ARE TO BE COMPLIED WITH IN ALL RESPECTS. MORE RESTRICTED NOTES SPECIFIED ELSEWHERE ARE TO TAKE PRECEDENCE OVER THOSE LISTED BELOW.
 2. ALL NOTES, DIMENSIONS, DETAILS AND JOB CONDITIONS WERE CHECKED AND VERIFIED, ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
 3. ALL REQUIRED AND NECESSARY PERMITS SHALL BE SECURED FROM ALL MUNICIPAL AGENCIES HAVING JURISDICTION AT THE COST AND EXPENSE OF THE CONTRACTOR AND PRIOR TO START OF WORK AND SHALL OBTAIN APPROVAL OF ALL COMPLETED WORK AS REQUIRED BY ADMINISTRATIVE CODE AND ALL REQUIRED AGENCIES.
 4. EACH CONTRACTOR WILL BE HELD RESPONSIBLE FOR HIS/HER WORK. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE BUILDINGS AND WILL BE RESPONSIBLE FOR THE JOINING OF WORK OF ALL TRADES.
 5. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE REQUIREMENTS OF "SAFETY OF PUBLIC AND PROPERTY DURING CONSTRUCTION OPERATIONS" AND SHALL BE HELD RESPONSIBLE FOR THE SAFE MAINTENANCE AS PRESCRIBED THEREIN UNTIL COMPLETION OF WORK.
 6. NO DRAWINGS TO BE SCALED, DIMENSIONS ARE TO BE USED.
 7. THE CONTRACTOR OR PERSON WHO SUPERVISED THE WORK IS REQUIRED TO BE PRESENT AT FINAL INSPECTION WITH THE BUILDING DEPARTMENT INSPECTOR.
 8. THE ARCHITECT/ENGINEER WAS NOT RETAINED TO SUPERVISE ANY CONSTRUCTION OR INSTALLATION OF ANY EQUIPMENT.
 9. THE OWNER SHALL BE RESPONSIBLE FOR THE SAFE MAINTENANCE OF THE BUILDING AND IT'S FACILITIES.
 10. ALL WORK SHALL COMPLY WITH THE 2020 RESIDENTIAL BUILDING CODE NEW YORK STATE AND ALL OTHER APPLICABLE LAWS AND ORDINANCES NOT HEREIN NOTED.
 11. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO NEW YORK STATE FIRE PREVENTION AND BUILDING CODE.
 12. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS AND STANDARDS OF THE BUILDING CODE ZONING RESOLUTION. IT SHALL ALSO BE THE CONTRACTORS RESPONSIBILITY TO SEEK CERTIFICATION OF THE AFOREMENTIONED SECTIONS, REQUIREMENTS AND STANDARDS.
 13. CONTRACTOR SHALL VISIT THE SITE, CHECK AND VERIFY CONDITIONS, FAMILIARIZE HIMSELF/HERSELF WITH EXISTING CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND CORRELATE HIS/HER OBSERVATIONS WITH THE REQUIREMENTS OF THE PLANS. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER IMMEDIATELY.
 14. CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ALL THE ACTS AND OMISSIONS OF ALL HIS EMPLOYEES AND SUB-CONTRACTORS, THEIR AGENTS AND ALL OTHER PERSONS PERFORMING ANY OF THE WORK TO BE DONE.
 15. CONTRACTOR SHALL PURCHASE AND MAINTAIN SUCH INSURANCE AS WILL PROTECT HIM/HER RESULT FROM THE CONTRACTORS OPERATIONS, WHETHER BE HIMSELF/HERSELF, SUB-CONTRACTOR, OR BY ANY OF THEM FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE.
 16. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS OF PUBLIC AUTHORITY HAVNG JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY & TO PROTECT THEM FROM DAMAGE, INJURY OR LOSS.
 17. CONTRACTOR SHALL PROPERLY CLEAN UP DURING PROCESS OF WORK. CONTRACTOR, UPON COMPLETION OF WORK, SHALL LEAVE PREMISES CLEAN, NEAT AND ORDERLY.

DESIGN LOADS

FIRST FLOOR	40 PSF L.L.
SECOND FLOOR	40 PSF L.L.
ROOF	40 PSF L.L. 20 PSF D.L.

2020 IECC - GENERAL NOTES

1. THE PROJECT CONSISTS OF AN ADDITION TO AN EXISTING RESIDENCE. THE RESIDENCE HAS APPROXIMATELY 4,262 SF OF CONDITIONED FLOOR AREA.
 2. THE STRUCTURE IS CLASSIFIED AS A RESIDENTIAL BUILDING AND IS THEREFORE REGULATED BY CHAPTER 4 OF THE 2015 IECC RESIDENTIAL PROVISIONS AS AMENDED.
 3. A PERMANENT CERTIFICATE SHALL BE COMPLETED BY ANNUNZIATA AND VILLANI DESIGN CONSULTANTS AND POSTED ON SITE AS REQUIRED BY SECTION R401.3 OF THE 2015 IECC.
 4. INTERIOR DESIGN TEMPERATURES FOR HEATING AND COOLING LOAD CALCULATIONS SHALL BE A MAXIMUM OF 72 DEGREES FOR HEATING AND A MINIMUM OF 75 DEGREES FOR COOLING.
 5. ALL INSULATION WHICH IS CAPABLE OF ABSORBING WATER SHALL BE PROTECTED BY A VAPOR BARRIER LOCATED ON THE WINTER WARM SIDE OF THE INSULATION. INSULATION SHALL BE INSTALLED IN A MANNER THAT PROVIDES CONTINUITY OF INSTALLATION AT PLATE LINES, SILL LINES AND CORNERS.
 6. LOCAL ENERGY CONSERVATION CONSTRUCTION CODE ENERGY CONSERVATION CNSTRUCTION CODES THAT ARE MORE STRINGENT IN THEIR REQUIREMENTS THAN THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE SHALL APPLY AND BE IMPLEMENTED WHEREVER REQUIRED.
 7. EXTERIOR JOINTS AROUND WINDOWS AND DOOR FRAME, OPENINGS BETWEEN WALL AND ROOF/CEILING, FLOORS AND ROOFS, AND ALL OTHER SUCH OPENINGS IN THE BUILDING ENVELOPE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
 8. DESIGN PROFESSIONAL STATES THAT TO THE BEST OF HIS KNOWLEDGE AND PROFESSIONAL JUDGEMENT, THE DESIGN HAS BEEN MADE IN CONFORMANCE WITH THE ENERGY CODE. THE DESIGN PROFESSIONAL MUST PROVIDE SUPPORTING DATA AS REQUIRED IN THE ENERGY CONSERVATION CONSTRUCTION CODE SECTION 104.1.
 9. THIS DESIGN ANALYSIS IS NOT TO BE USED AS THE DETERMINING FACTOR IN COMPUTING THE DESIGN OF THE HEATING AND/OR VENTILATING EQUIPMENT TO BE INSTALLED IN THE BUILDING. TO DO SO WILL BE AT THE BUILDER AND/OR CONTRACTOR'S RISK. THE ENGINEER SHALL BE HELD BLAMELESS FOR ANY HEATING OR VENTILATING EQUIPMENT INSTALLED AT THE JOB SITE.

PLUMBING

ALL PLUMBING WORK TO BE PERFORMED BY A LICENSED PLUMBER IN THE STATE OF NEW YORK.
 ALL PLUMBING WORK SHALL COMPLY WITH THE 2020 RESIDENTIAL BUILDING CODE OF NYS.

ELECTRICAL

ELECTRICAL WORK TO BE PERFORMED BY AN ELECTRICIAN LICENSED IN WESTCHESTER COUNTY & SHALL COMPLY WITH NFPA 70, THE 2014 NATIONAL ELECTRIC CODE & THE ELECTRICAL CODE FOR THE TOWN OF MT. PLEASANT, NY. PERMIT SHALL BE FILED UNDER SEPARATE APPLICATION.

MECHANICAL

ALL MECHANICAL WORK TO BE PERFORMED BY A LICENSED MECHANICAL CONTRACTOR IN WESTCHESTER COUNTY.
 ALL MECHANICAL WORK SHALL COMPLY WITH THE 2020 RESIDENTIAL BUILDING CODE OF NYS.

GEOGRAPHIC, CLIMATIC & STRUCTURAL DESIGN CRITERIA

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA									
GROUND SNOW LOAD	WIND SPEED	SEISMIC DESIGN CRITERIA	SUBJECT TO DAMAGE FROM				WINTER DESIGN TEMP.	ICE SHEELDS UNDER LAYMENT REQUIRED	FLOOD HAZARDS
			WEATHERING	FROST LINE DEPTH	TERMITE	DECAY			
30	100/110	C	SEVERE	42"	MODERATE TO HEAVY	SLIGHT TO MODERATE	7	YES	F.I.R.M. 360922 09/28/2007

CODE INSULATION

EXTERIOR DESIGN CONDITIONS - NEW YORK STATE					
COUNTY	WINTER DESIGN DRY-BULB TEMP.	SUMMER DESIGN DRY-BULB TEMP.	COINCIDENT DESIGN WET-BULB TEMP.	HEATING DEGREE DAYS	ZONE
WESTCHESTER	7	84	73	5750	4

SIMPLIFIED PRESCRIPTIVE BUILDING ENVELOPE THERMAL COMPONENT CRITERIA MINIMUM REQUIRED THERMAL PERFORMANCE (U-FACTOR AND R-FACTOR)

CLIMATE ZONE: WESTCHESTER	MAXIMUM		MINIMUM					
	GLAZING SHGC	CEILING R-VALUE	WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB PERIMETER R-VALUE AND DEPTH	CRAWL SPACE WALL R-VALUE	
ZONE: 4	0.40	R-49	R-21	R-19	R-10/13	R-10, 2'-0"	R-10/13	

BUILDING CODE ANALYSIS

BUSINESS GROUP B AND RESIDENTIAL GROUP R-3
 EXISTING CONSTRUCTION CLASS TYPE V-A

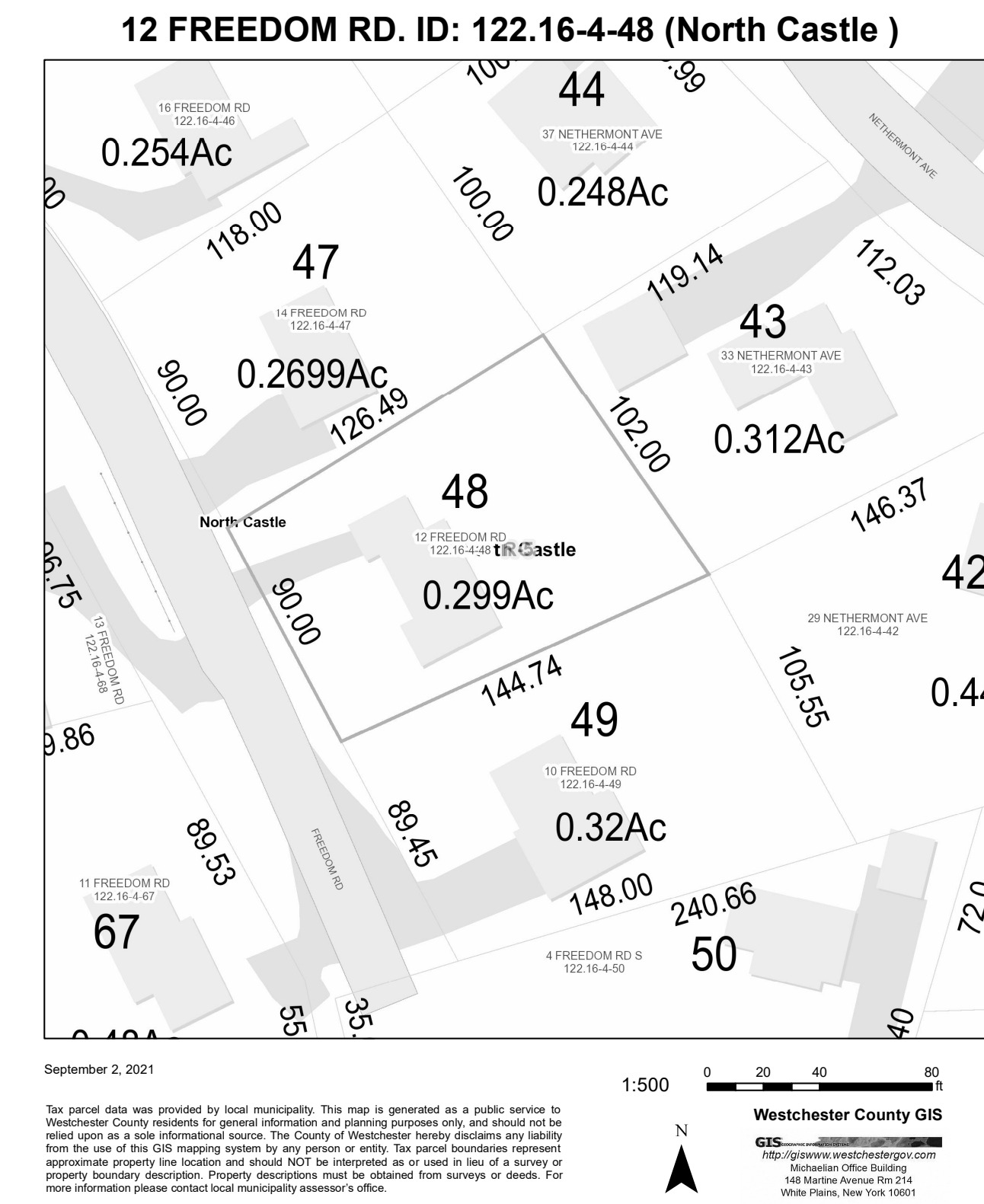
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)
 CONSTRUCTION CLASS TYPE V-B

BUILDING ELEMENT	REQUIRED RATING	EXIST. RATING	MATERIALS
STRUCTURAL FRAME	0	0	WOOD AND SHEETROCK
BEARING EXTERIOR WALL	0	0	WOOD AND SHEETROCK
BEARING INTERIOR WALL	0	0	WOOD AND SHEETROCK
NON-BEARING INTERIOR WALL	0	0	WOOD AND SHEETROCK
FLOOR CONSTRUCTION	0	0	WOOD AND SHEETROCK
ROOF CONSTRUCTION	0	0	WOOD AND SHEETROCK

GENERAL STRUCTURAL NOTES

1. ALL STRUCTURAL WORK SHALL COMPLY WITH THE BUILDING CODE OF N.Y.S.. STRUCTURAL DRAWINGS SUPERCEDE ARCH. DWGS. WHEN SPECIFYING ANY STRUCTURAL MEMBERS.
 2. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, STRUCTURAL DRAWINGS AS WELL AS SPECIFICATIONS.
 3. ALL FRAMING LUMBER AND DETAILS OF WOOD CONSTRUCTION SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR STRESS GRADE LUMBER AND ITS FASTENINGS.
 RAFTERS AND JOISTS: DOUGLAS FIR, LARCH #2
 BEAMS, GRDRS. & HDRS: DOUGLAS FIR, LARCH #2
 STUDS AND PLATE: DOUGLAS FIR, LARCH #2
 4. ALL FACTORY MANUFACTURED GLUE LAMINATED WOOD FRAMING MEMBERS (LVL) SHALL BE TJI JOISTS AND MICRO-LAM BEAMS AS MANUFACTURED BY TRUS JOIST CORPORATION, OR APPROVED.
 5. ALL FLUSH FRAMED CONNECTIONS SHALL BE MADE WITH APPROVED GALVANIZED DOUBLE SHEAR JOIST OR BEAM HANGERS, MINIMUM 18 GAUGE, INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 6. ALL RAFTERS AND JOISTS SHALL ALIGN DIRECTLY WITH STUDS BELOW; WHERE REQUIRED INSTALL ADDITIONAL STUDS. USE DOUBLE STUDS AT ENDS OF WALLS AND ENDS OF OPENINGS. USE DOUBLE TRIMMERS AND HEADERS AT ALL FLOOR OPENINGS WHERE BEAMS ARE NOT DESIGNATED. LAP ALL PLATES AT CORNERS AND AT INTERSECTION OF PARTITIONS.
 7. BUILT-UP BEAMS SHALL BE SPIKED TOGETHER WITH (2) 16D NAILS @ 16" O.C. AS PER RCNYS.
 8. AT THE END OF ALL BEAMS, HEADERS AND GIRDERS PROVIDE A BUILT UP OR SOLID POST WHOSE WIDTH IS AT LEAST EQUAL TO THE WIDTH OF THE MEMBER IT IS SUPPORTING.
 9. STAGGER ALL SPLICES A MINIMUM OF 32 INCHES.
 10. PLYWOOD SHALL BE APA GRADE STAMPED AND SHALL NOT EXCEED THE SPANS INTENDED FOR USE ON THE GRADE STAMP. ALL PLYWOOD PLYWOOD SHALL BE MADE WITH EXTERIOR GLUE. ALL PLYWOOD SHALL BE GLUED AND SCREWED TO FLOOR JOISTS USING AN APA APPROVED ADHESIVE (B.F. GOODRICH PL400 OR EQUAL).

GIS MAPPING



ADDRESS: 12 Freedom Road
 White Plains, N.Y, 10603
 ZONE : R-5
 SECTION : 122.16 BLOCK: 4 LOT: 48

INSTALLATION AND MAINTENANCE OF EROSION CONTROL

CONSTRUCTION SCHEDULE
 NOTIFY APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 5 DAYS PRIOR TO START

EROSION CONTROL MEASURES
 Install all erosion control measures prior to start of construction.
 Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.

INSPECTION BY MUNICIPALITY
 MAINTENANCE (TO BE PERFORMED DURING ALL PHASES OF CONSTRUCTION)
 After any rain causing runoff Contractor to inspect haybales, etc. and remove any excessive sediment, and inspect stockpiles and correct any problems with seed establishment.
 Inspections shall be documented in writing and submitted to the appropriate Municipal Agency having jurisdiction.

STOCK PILING OF EXCAVATED MATERIAL
 Strip Topsoil and Stockpile.
 Stockpile Excavation Subgrade.
 Seed piles with 1 lb. total annual rye or remove from site within 2 days.

FINAL GRADING
 Remove unneeded subgrade from site.
 Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.

LANDSCAPING
 Spread topsoil evenly over areas to be seeded. Hand rake level.
 Broadcast 1:25 lb. Bag of Jonathan Green "Fastgrow" mix or equal over areas to be seeded. Apply straw mulch and water within 2 days of completion of topsoiling.
 Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.

FINAL LANDSCAPING
 Grass established.
 Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.

FINAL INSPECTION
 1. All erosion control measures removed and grass established.
 2. Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.



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PROJECT: **DIBENEDETTO RESIDENCE ADDITION AND ALTERATIONS TO EXISTING STRUCTURE 12 FREEDOM ROAD WHITE PLAINS, NEW YORK, 10603**

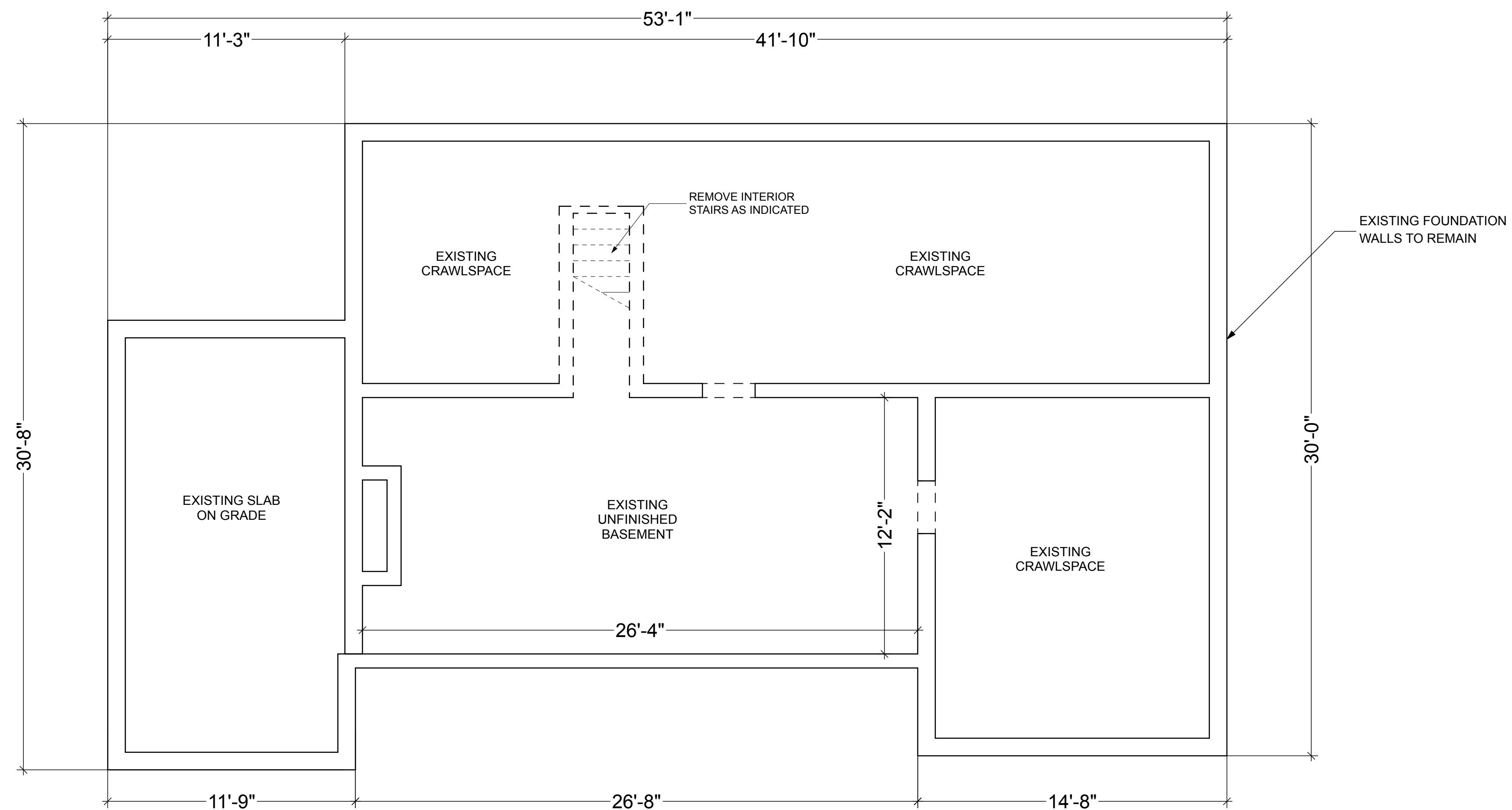
NO.	ISSUE	DATE
1.	ORIGINAL	4/25/22
2.	REVISION	
3.	REVISION	
4.	REVISION	
5.	REVISION	
6.	REVISION	

IN ASSOCIATION WITH:
John J. Annunziata, P.E.
 24 Chesley Road
 White Plains, N.Y., 10605
 P-914-949-0270
 F-914-428-6235

SCALE:	DATE:	PROJECT NO.:
AS NOTED	4/25/22	
DRAWN BY: JV	CHECKED BY:	APPROVED BY:

DRAWING TITLE:
GENERAL NOTES

DRAWING NO.:
A.002

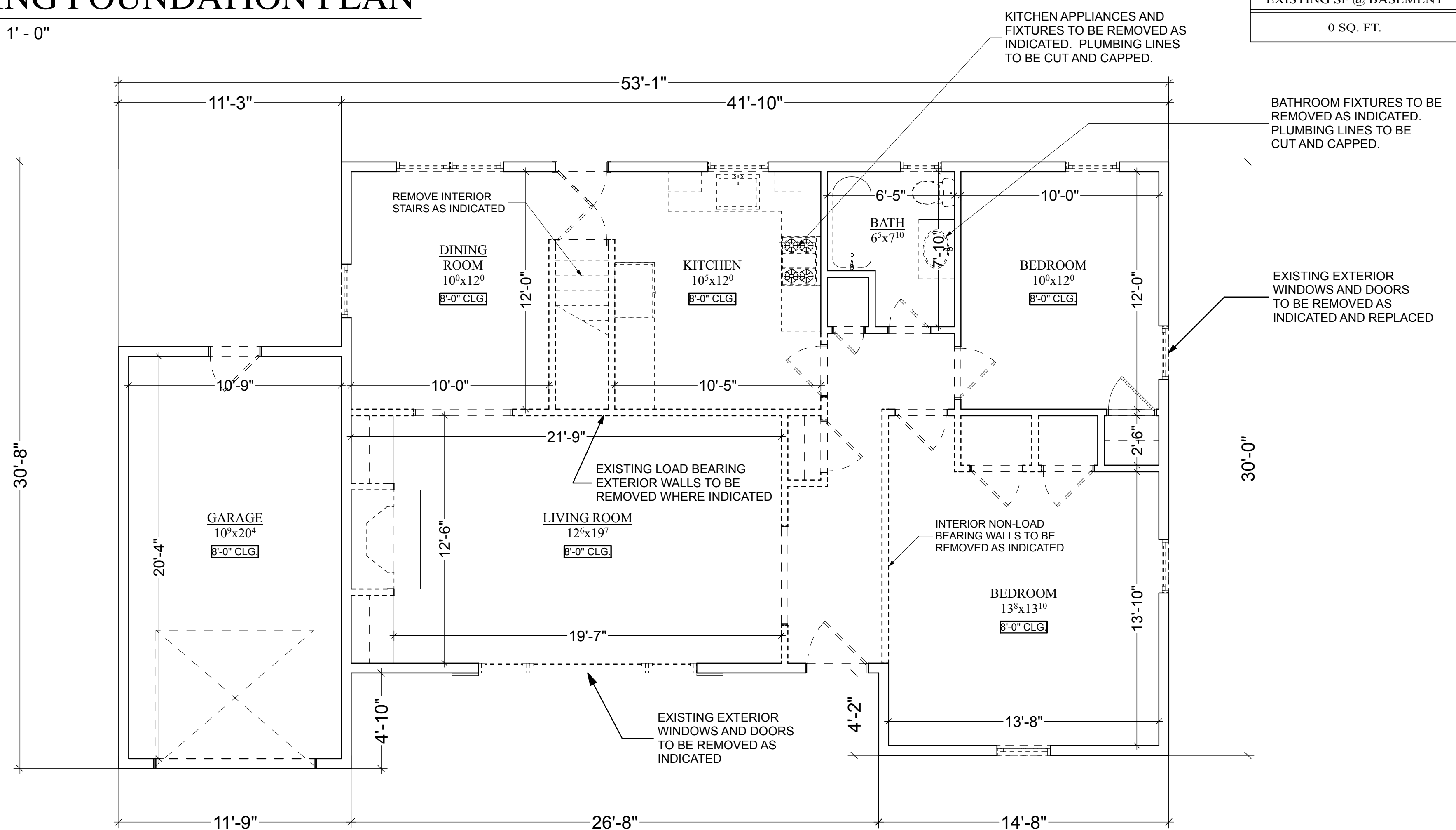


A
A.005

EXISTING FOUNDATION PLAN

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

EXISTING SF @ BASEMENT
0 SQ. FT.



B
A.005

EXISTING FIRST FLOOR PLAN

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

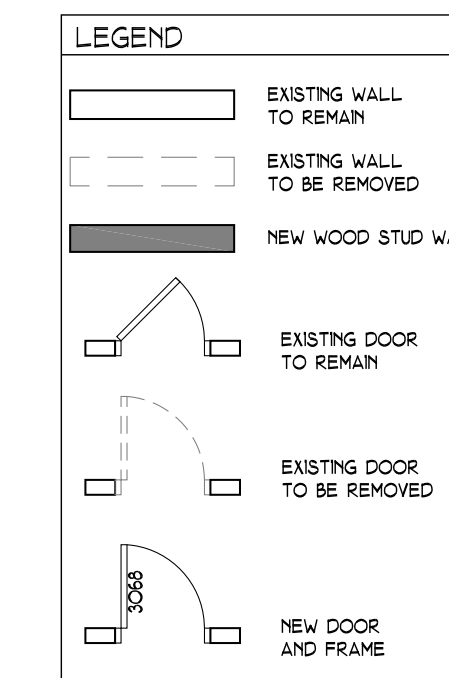
EXISTING SF @ FIRST FLOOR
1,142 SQ. FT. W/O GARAGE

DEMOLITION NOTES

- G.C. TO REMOVE ITEMS AS INDICATED ON DEMOLITION PLAN UNLESS OTHERWISE NOTED.
- G.C. TO PROTECT ANY AND ALL ITEMS TO BE REUSED THROUGHOUT CONSTRUCTION PHASE.
- G.C. TO REMOVE ALL PLUMBING FIXTURES AND ASSOCIATED PIPING AS NECESSARY. RADIATORS TO BE REPLACED IN SAME LOCATIONS.
- G.C. TO REPLACE MECHANICAL SYSTEMS TO ACCOMMODATE REPAIRS.
- G.C. TO PROVIDE ALL TEMPORARY WATERPROOFING DUE TO REMOVAL OF VENTS AND EXHAUST FANS FROM EXISTING ROOF THROUGHOUT CONSTRUCTION PHASE.
- G.C. TO HAVE FIRE EXTINGUISHERS ON PREMISES THROUGHOUT CONSTRUCTION PHASE AS SAFETY PRECAUTION.
- G.C. TO PROVIDE HARD HATS AND GOGGLES TO ALL WORKERS THROUGHOUT DEMOLITION AS WELL CONSTRUCTION.
- G.C. TO PROVIDE ALL PROTECTIVE BARRIERS TO LIMIT ACCESS THROUGHOUT CONSTRUCTION PHASE.
- G.C. TO MAINTAIN A SAFE AND CLEAR PEDESTRIAN PATH THROUGH CONSTRUCTION AREA THROUGHOUT DURATION OF PROJECT.

CLEANING:

- MAINTAIN PREMISES AND PUBLIC PROPERTIES FREE FROM ACCUMULATIONS OF WASTE, DEBRIS AND RUBBISH CAUSED BY OPERATIONS.
- AT COMPLETION OF WORK, REMOVE WASTE MATERIALS, RUBBISH, TOOLS, EQUIPMENT, MACHINERY AND SURPLUS MATERIALS, AND CLEAN ALL SIGHT EXPOSED SURFACES; LEAVE PROJECT CLEAN AND READY FOR FOR OCCUPANCY.



NOTES:

- CONTRACTOR SHALL ADHERE TO ALL CODES, RULES AND REGULATIONS GOVERNING CONSTRUCTION AS SET BY AUTHORITIES HAVING JURISDICTION.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS ON DRAWINGS SHALL TAKE PRECEDENCE.
- CONTRACTOR TO VERIFY ALL DIMENSIONS, ROUGH OPENING SIZES AND OTHER PENETRATIONS AGAINST REQUIREMENTS OF SPECIFIED PRODUCTS, CONDITIONS, ELEVATIONS, ETC. PERTAINING TO WORK BEFORE PROCEEDING.
- ALL OPENINGS SHALL BE CALKED, SEALED, OR WEATHER STOPPED.
- PROVIDE SIMPSON CONNECTORS AT ALL FLUSH FRAMED CONDITIONS AND FOR POST BASES.

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PROJECT: **DIBENEDETTO RESIDENCE
ADDITION AND ALTERATIONS TO EXISTING
STRUCTURE
12 FREEDOM ROAD
WHITE PLAINS, NEW YORK, 10603**

NO.	ISSUE	DATE
1.	ORIGINAL	4/25/22
2.	REVISION	
3.	REVISION	
4.	REVISION	
5.	REVISION	
6.	REVISION	
7.	REVISION	

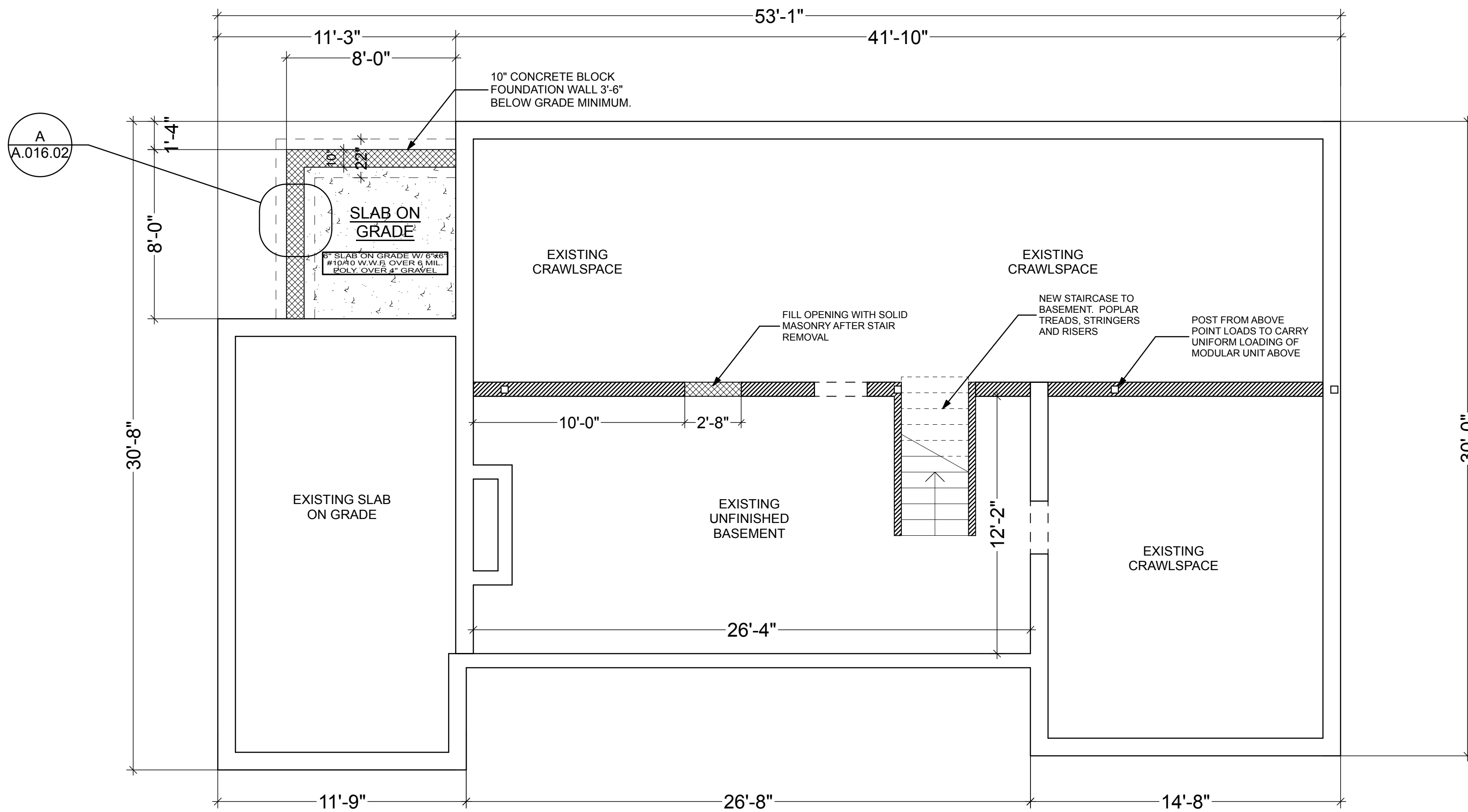
IN ASSOCIATION WITH:
John J. Annunziata, P.E.
24 Chesley Road
White Plains, N.Y., 10605
P-914-949-0270
F-914-428-6235

SCALE:	DATE:	PROJECT NO.:
AS NOTED	4/25/22	
DRAWN BY:	CHECKED BY:	APPROVED BY:
JV		

DRAWING TITLE:
**EXISTING FLOOR
PLANS**

DRAWING NO.:
A.005

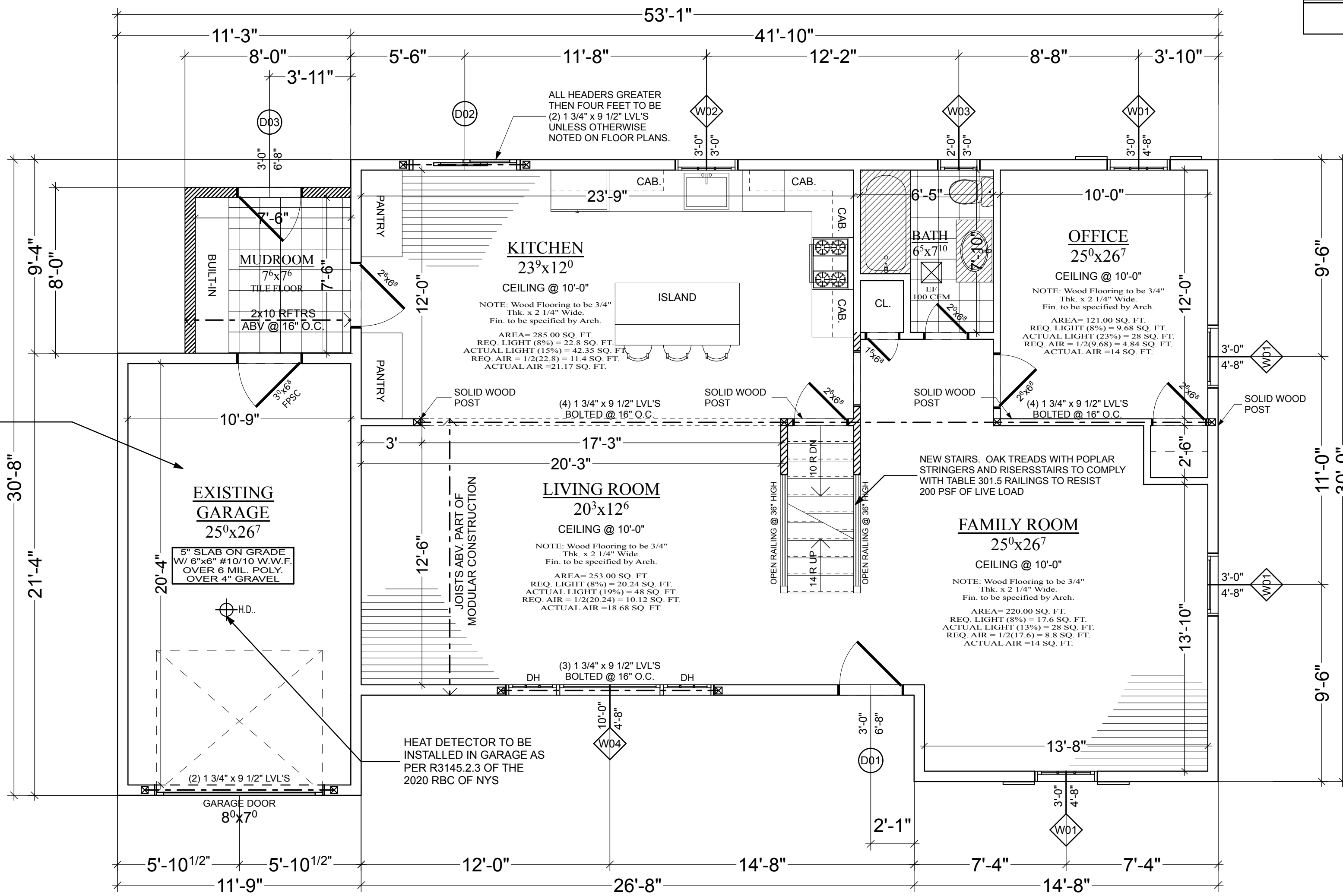




PROPOSED FOUNDATION PLAN

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

PROPOSED SF @ BASEMENT
0 SQ. FT.



PROPOSED FIRST FLOOR PLAN

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

PROPOSED SF @ FIRST FLOOR
1,206 SQ. FT. W/O GARAGE

FOUNDATION NOTES

1. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DEVIATIONS FROM PLAN ARE REQUIRED DUE TO SITE CONDITIONS.
2. CONTRACTOR TO VERIFY ALL T.O.W. (TOP OF WALL) AND T.O.S. (TOP OF SHELF) HEIGHTS ACCORDING TO SITE CONDITIONS.
3. SOIL BEARING NOTE: FOOTING DESIGN BASED ON 2,000 PSF BEARING CAPACITY. REFER TO NOTE #5 REGARDING LICENSED P.E. REVIEW OF FOUNDATION CONSTRUCTION INCLUDING FOOTING BOTTOMS AND SOIL BEARING YIELDS.
4. FINAL DESIGN DETAILS AND ERECTION MEANS AND METHODS FOR FOUNDATION SYSTEM SHALL BE PROVIDED TO THE BUILDING DEPARTMENT PRIOR TO RELEVANT INCREMENTAL FOUNDATION CONSTRUCTION STEPS (IE: FOOTING BOTTOM INSPECTION, FORMING, REINFORCEMENT INSPECTION AND CONCRETE MIX REVIEW).
5. BACKFILL WITH APPROVED MATERIAL. BACKFILLING UNDER SLABS, AROUND PIERS AND ON EACH SIDE OF FOUNDATION WALLS SHALL BE DONE IN LAYERS, NOT TO EXCEED 10 INCHES. COMPACTION SHALL BE 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. EXCAVATION MUST BE FREE OF WATER WHILE FOUNDATION WORK IS IN PROGRESS.
6. ELEVATIONS OF FOOTING BOTTOMS SHOWN ON PLAN ARE AT MINIMUM DEPTHS. ACTUAL ELEVATIONS MAY BE LOWER IF ACCEPTABLE BEARING STRATA IS NOT FOUND AT MINIMUM DEPTHS. STEP FOOTING BOTTOMS 1 VERTICAL TO 2 HORIZONTAL.

CONCRETE

1. ALL CONCRETE WORK, DETAILS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ACI 301, AND ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITIONS, AND WITH THE APPLICABLE LOCAL CODES.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT STONE CONCRETE ACHIEVING A STRENGTH OF 3,500 P.S.I. AT AGE 28 DAYS. CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE THE WORK IS BEGUN.
3. CONCRETE SLABS ON GROUND SHALL BE PLACED IN ALTERNATE PANELS, CHECKERBOARD FASHION, NOT EXCEEDING 1,000 SQUARE FEET IN AREA NOR 40 FEET IN ONE DIRECTION.

FIRST FLOOR NOTES:

1. ALL WINDOWS TO BE ANDERSON 400 SERIES OR APPROVED EQUAL. ROUGH OPENING DIMENSIONS TO BE DETERMINED. INSURE EGRESS AND TEMPERED UNITS WHERE REQUIRED. ANY SUBSTITUTIONS TO BE EQUAL TO, OR GREATER THAN, UNIT SHOWN ON PLAN.
2. PROVIDE SMOKE/HEAT DETECTORS (S.D.) AND CARBON MONOXIDE DETECTORS WHERE INDICATED. ALL SMOKE ALARMS TO BE HARD-WIRED, INTERCONNECTED, WITH BATTERY BACK-UP. LOCATE SMOKE/HEAT DETECTORS AT THE TOP OF EACH STAIR THROUGHOUT THE HOUSE.
3. ALL HANDRAILS TO BE 3'-0" (MIN.) HIGH W/ 4" (MAX.) CLEARANCE BETWEEN VERTICAL OR HORIZONTAL MEMBERS (TYP).
4. ALL NEW HEADERS UNDER FOUR FEET TO BE (2) 2x8's UNLESS OTHERWISE NOTED ON FLOOR PLANS.
5. ALL HEADERS GREATER THEN FOUR FEET TO BE (2) 1 3/4" x 9 1/2" LVL'S UNLESS OTHERWISE NOTED ON FLOOR PLANS.
6. ALL INTERIOR WALLS SHALL BE 2"x4" WOOD STUDS @ 16" O.C., UNLESS OTHERWISE INDICATED ON DRAWINGS.
7. PROVIDED MIN. 2" AIR SPACE BETWEEN MASONRY FIREPLACES AND COMBUSTABLE STUDS ON SIDES AND 4" IN REAR, ETC. OR USE METAL LOAD BEARING STUDS.
8. ALL INTERIOR WALLS TO BE INSULATED WITH R-13 INSULATION
9. NEW 1/2" SHEETROCK TO BE APPLIED TO ALL INTERIOR AND EXTERIOR WALLS.
10. ALL INTERIOR DOORS TO BE TRADITIONAL 6 PANEL SOLID MDF DOORS. FOR SIZES SEE PROPOSED FLOOR PAN.
11. ALL EXTERIOR WALLS TO BE 2x6 AND INSULATED WITH R-19 INSULATION.
12. ALL INTERIOR WALLS TO RECEIVE FIRE BLOCKING.
13. PROVIDE DRAFT STOPPING WITHIN FLOOR SYSTEM EVERY 500 SQ. FT.
14. PROVIDE 2 - 2"x6" WOOD POSTS DOWN DIRECTLY TO FOUNDATION WALL OR MAIN GIRDERS WHERE INDICATED. CONTRACTOR TO POST ALL CORNERS AND WALL INTERSECTIONS..

WINDOW SCHEDULE {FIRST FLOOR}

TYPE	SPECIFICATION/ MANUFACTURER	WINDOW FRAME (ACTUAL UNIT SIZE)	ROUGH OPNG. SIZE (WxH)	ROUGH OPNG. HEAD HEIGHT ABOVE FINISHED FLOOR.	QUANT
		SIZE (WxH)	SIZE (WxH)	SIZE (WxH)	
W01	ANDERSON 200 SERIES DOUBLE HUNG WINDOWS. C244DH 3049	2'-11 1/2" x 4'-8 1/2"	3'-0" x 4'-9"	6'-9"	4
W02	ANDERSON 200 SERIES DOUBLE HUNG WINDOWS. C244DH 3030	2'-11 1/2" x 2'-11 1/2"	3'-0" x 3'-0"	6'-9"	1
W03	ANDERSON 200 SERIES DOUBLE HUNG WINDOWS. C244DH 3030	1'-11 1/2" x 2'-11 1/2"	2'-0" x 3'-0"	6'-9"	1
W04	ANDERSON 200 SERIES CUSTOM 2 DH WITH PICTURE WINDOW	9'-11 1/2" x 4'-8 1/2"	10'-0" x 4'-9"	6'-9"	1

DOOR SCHEDULE {FIRST FLOOR}

TYPE	SPECIFICATION/ MANUFACTURER	DOOR FRAME (ACTUAL UNIT SIZE)	ROUGH OPNG. SIZE (WxH)	ROUGH OPNG. HEAD HEIGHT ABOVE FINISHED FLOOR.	QUANT
		SIZE (WxH)	SIZE (WxH)	SIZE (WxH)	
D01	THERMATRI FIBER GLASS CLASSIC MARGANY ENTRY DOOR WITH SIDELIGHTS	3'-0" x 6'-8"	3'-2 1/8" x 6'-8 1/4"	6'-9"	1
D02	ANDERSON 400 SERIES GLIDING PATIO DOORS. FWG 5088	4'-11 1/2" x 6'-10 1/8"	5'-0" x 6'-11"	6'-11"	1
D03	THERMATRI SMOOTH STAR EXTERIOR DOOR (UNGLAZED AND FIBERGLASS EXT.)	3'-0" x 6'-8"	3'-2 1/8" x 6'-8 1/4"	6'-11"	1



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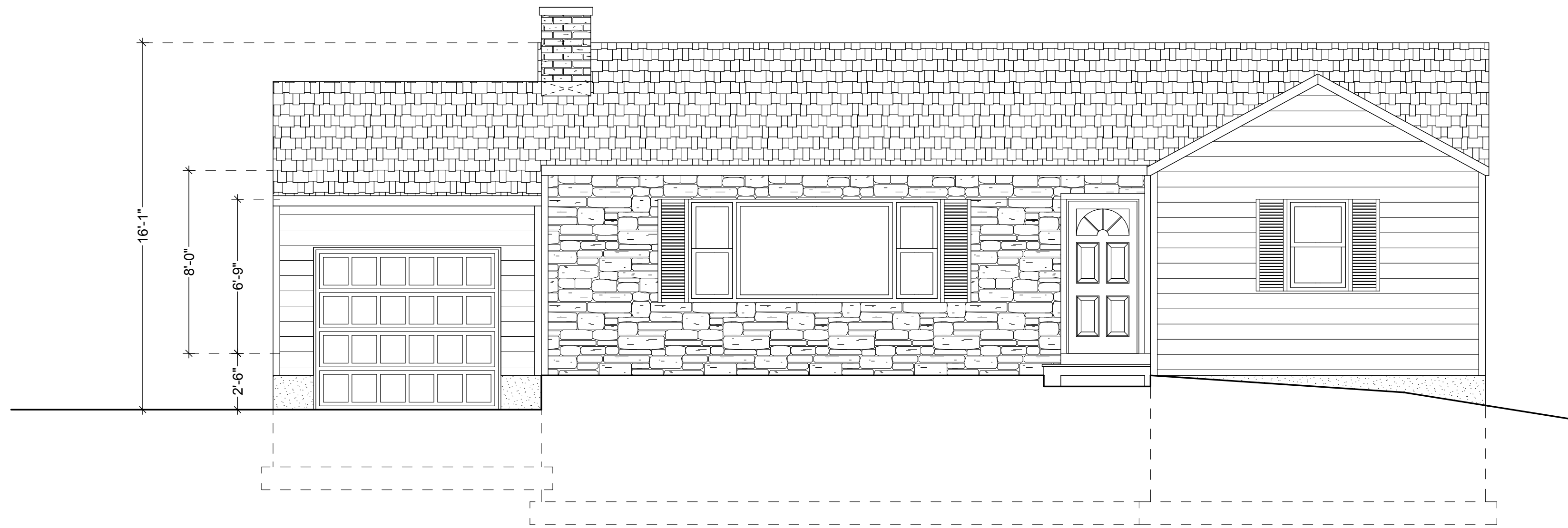
PROJECT: **DIBENEDETTO RESIDENCE ADDITION AND ALTERATIONS TO EXISTING STRUCTURE**
12 FREEDOM ROAD WHITE PLAINS, NEW YORK, 10603

NO.	ISSUE	DATE
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SCALE: AS NOTED DATE: 4/25/22 PROJECT NO.:
DRAWN BY: JV CHECKED BY: APPROVED BY:
DRAWING TITLE: **PROPOSED FLOOR PLANS**

DRAWING NO.: **A.007**



A
A.008

EXISTING FRONT ELEVATION

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



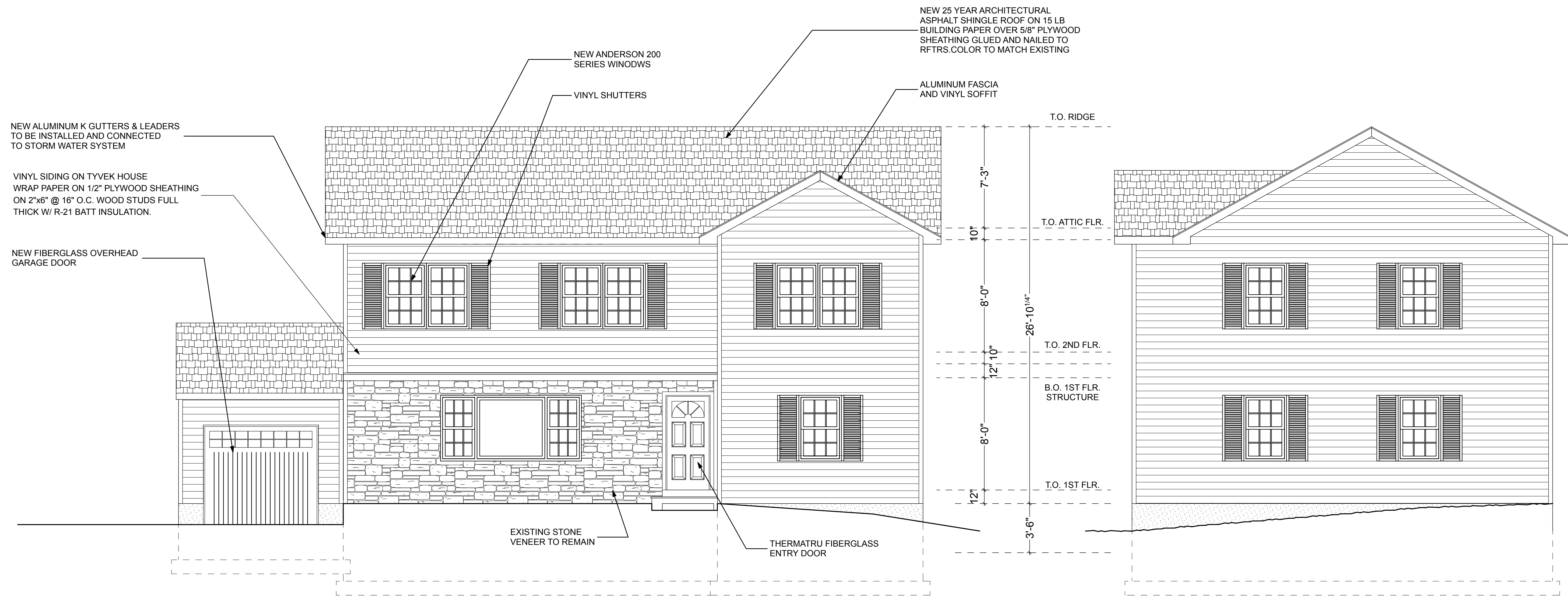
MODULAR TO BE PLACED
ON TOP OF EXISTING STRUCTURE



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**DIBENEDETTO RESIDENCE
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B
A.008

PROPOSED FRONT ELEVATION

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

C
A.008

PROPOSED SIDE ELEVATION

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



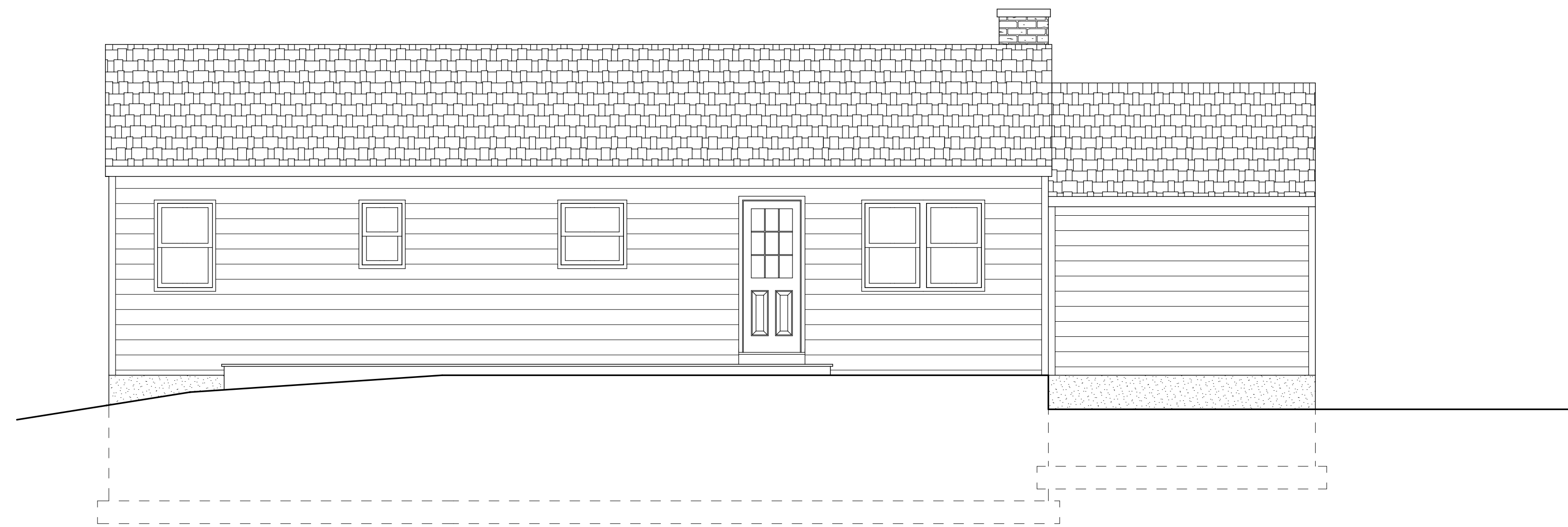
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DRAWING TITLE:
ELEVATIONS

DRAWING NO.:
A.008

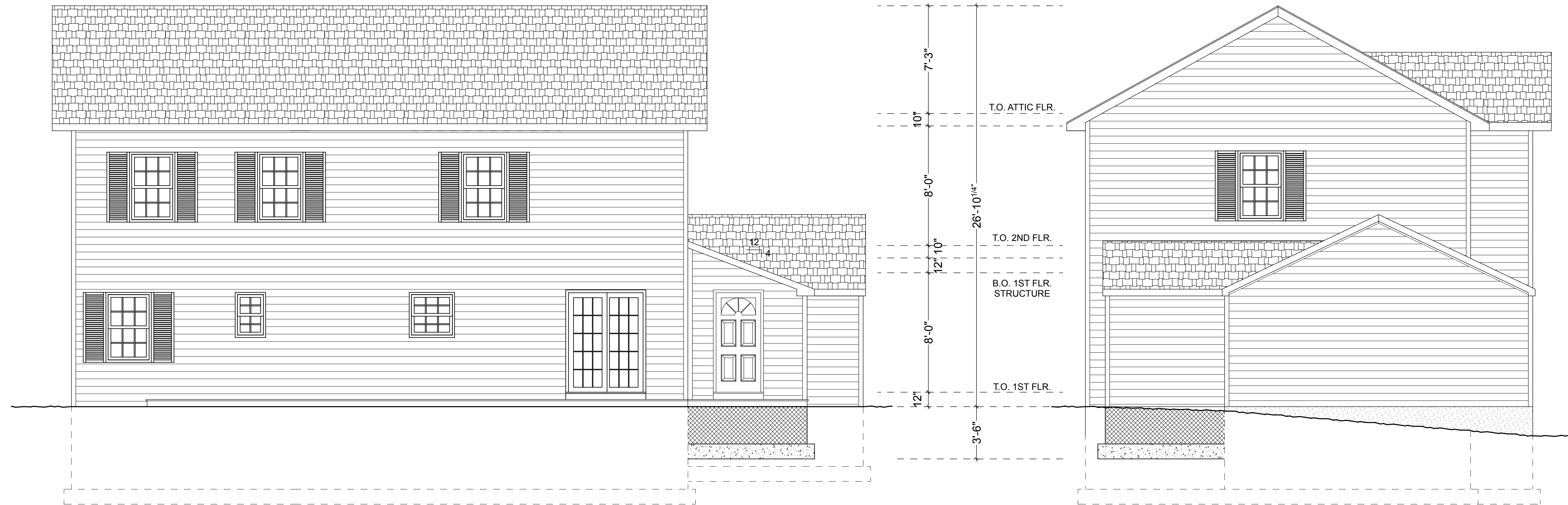


ROOF AND SIDING
TO BE REMOVED

A
A.009

EXISTING REAR ELEVATION

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



B
A.009

PROPOSED REAR ELEVATION

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

C
A.009

PROPOSED SIDE ELEVATION

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



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DRAWING TITLE:
ELEVATIONS

DRAWING NO.:
A.009



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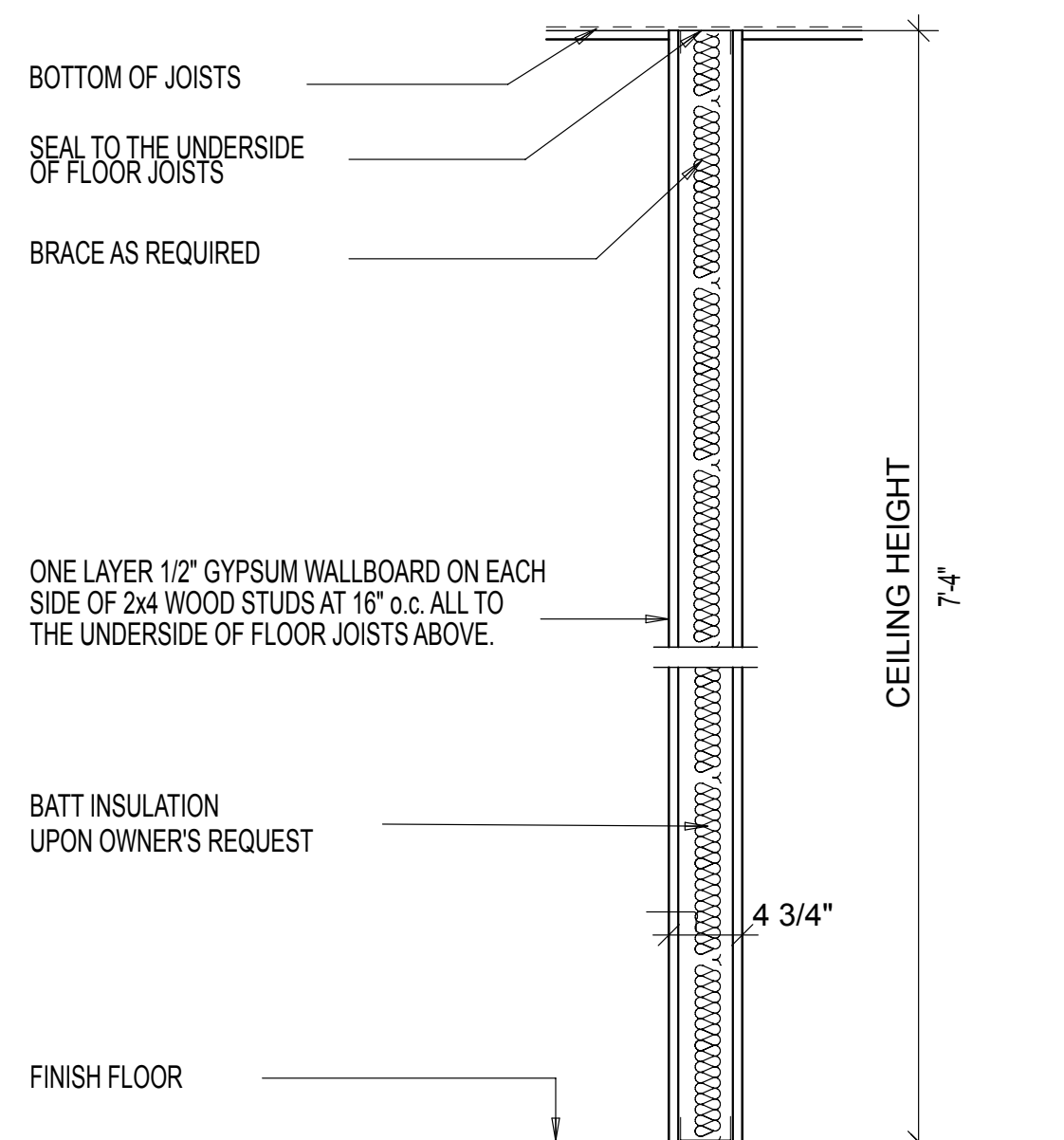
SCALE:	DATE:	PROJECT NO.:
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DRAWN BY:	CHECKED BY:	APPROVED BY:
JV		

DRAWING TITLE:
**SECTIONS AND
 DETAILS**

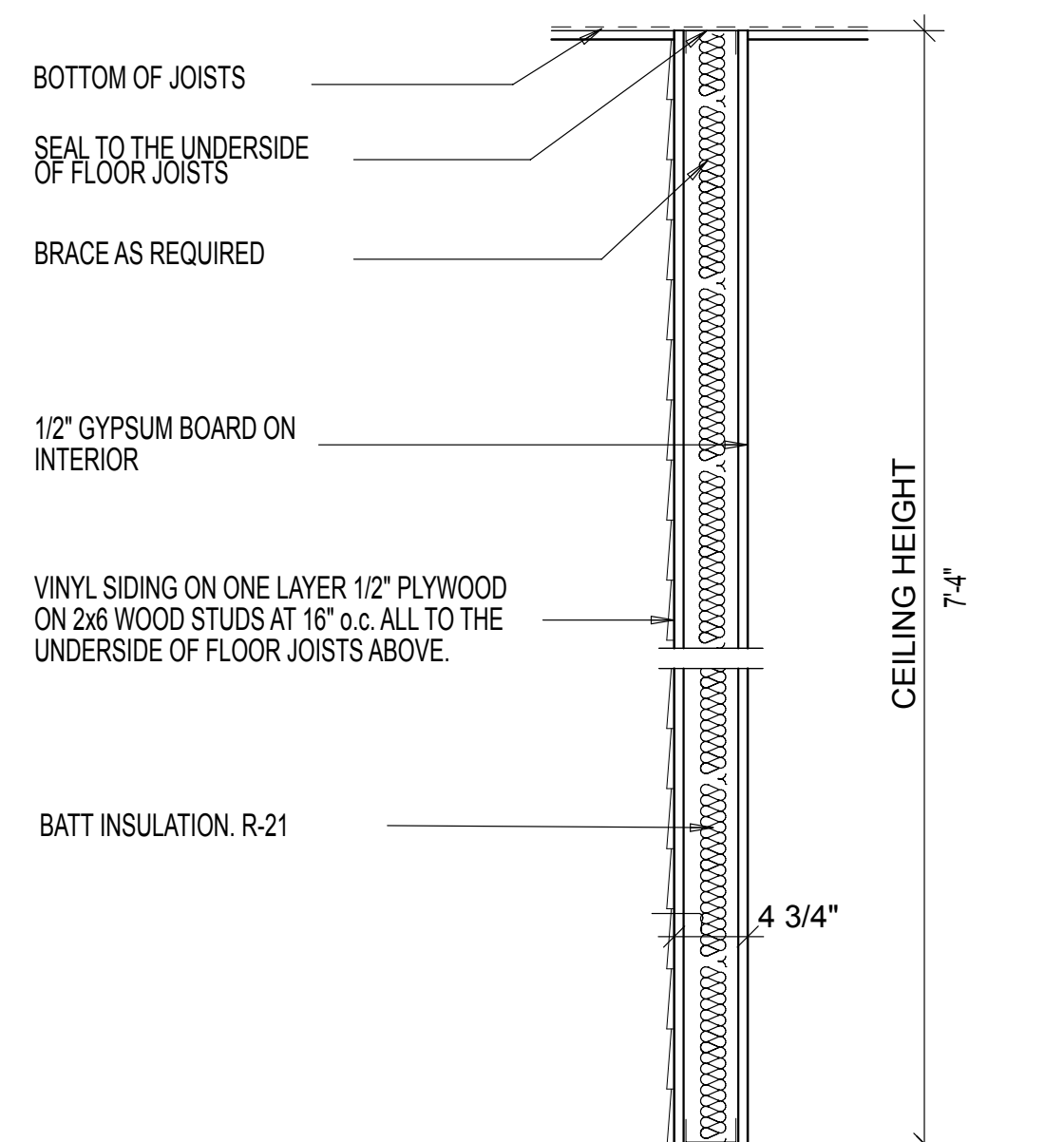
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A.010



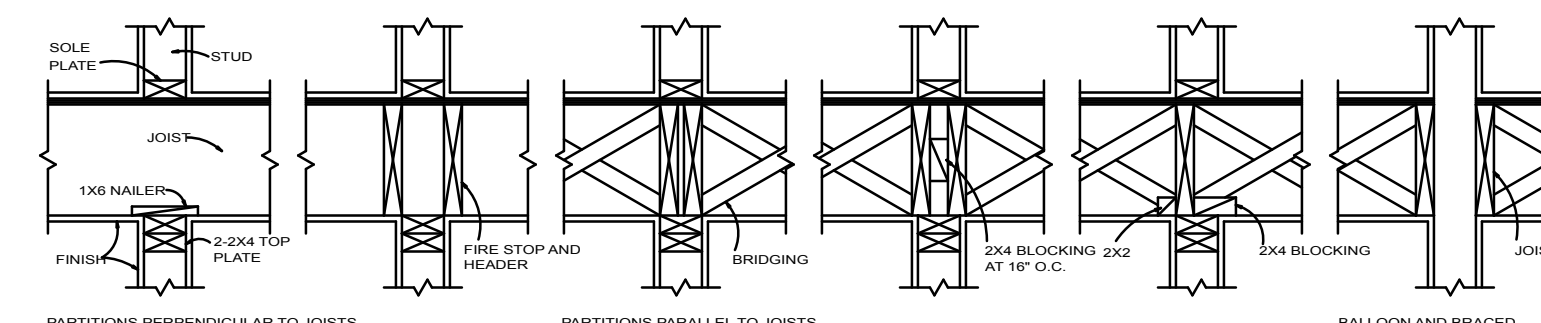
INTERIOR PARTITION



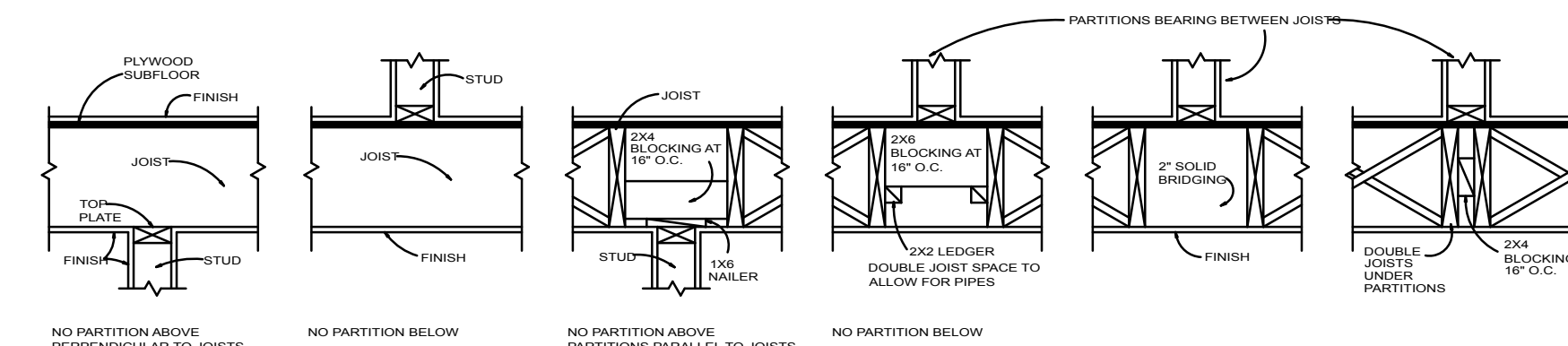
EXTERIOR PARTITION



A
 A.010 **TYPICAL WALL PARTITIONS**
 SCALE: 1" = 1' - 0"



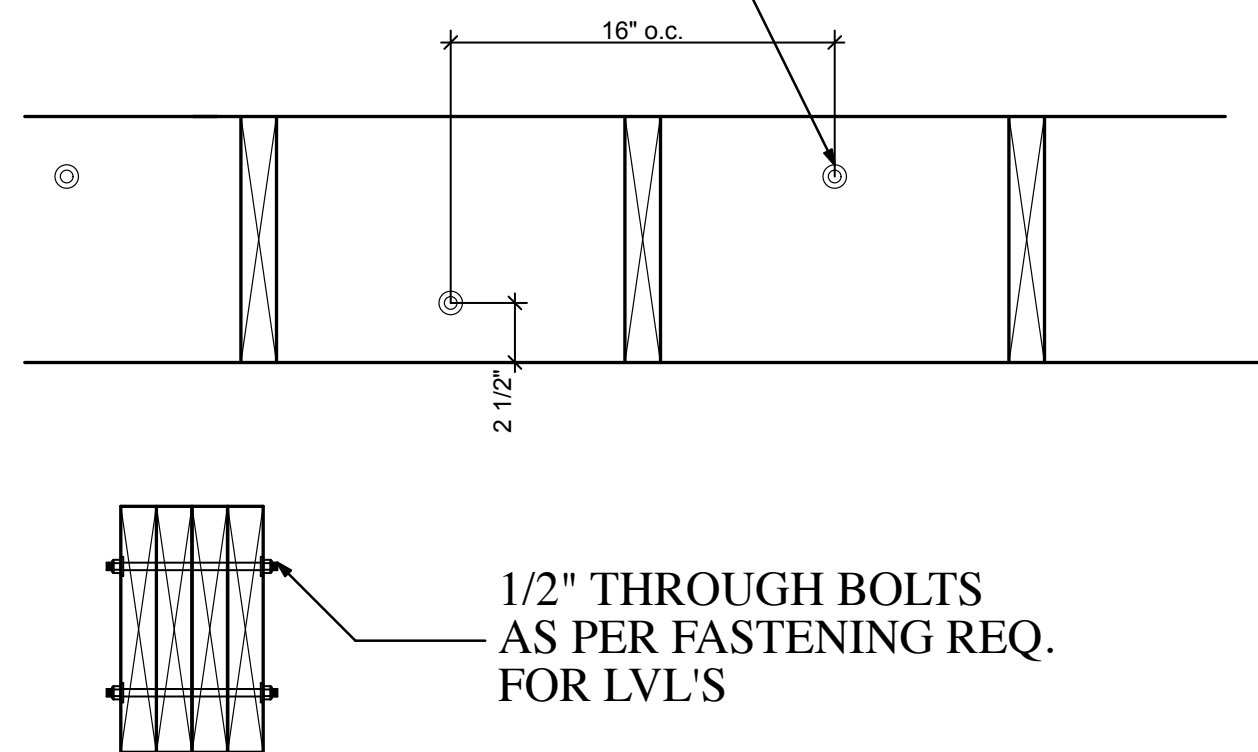
BEARING PARTITIONS
 SCALE: N.T.S.



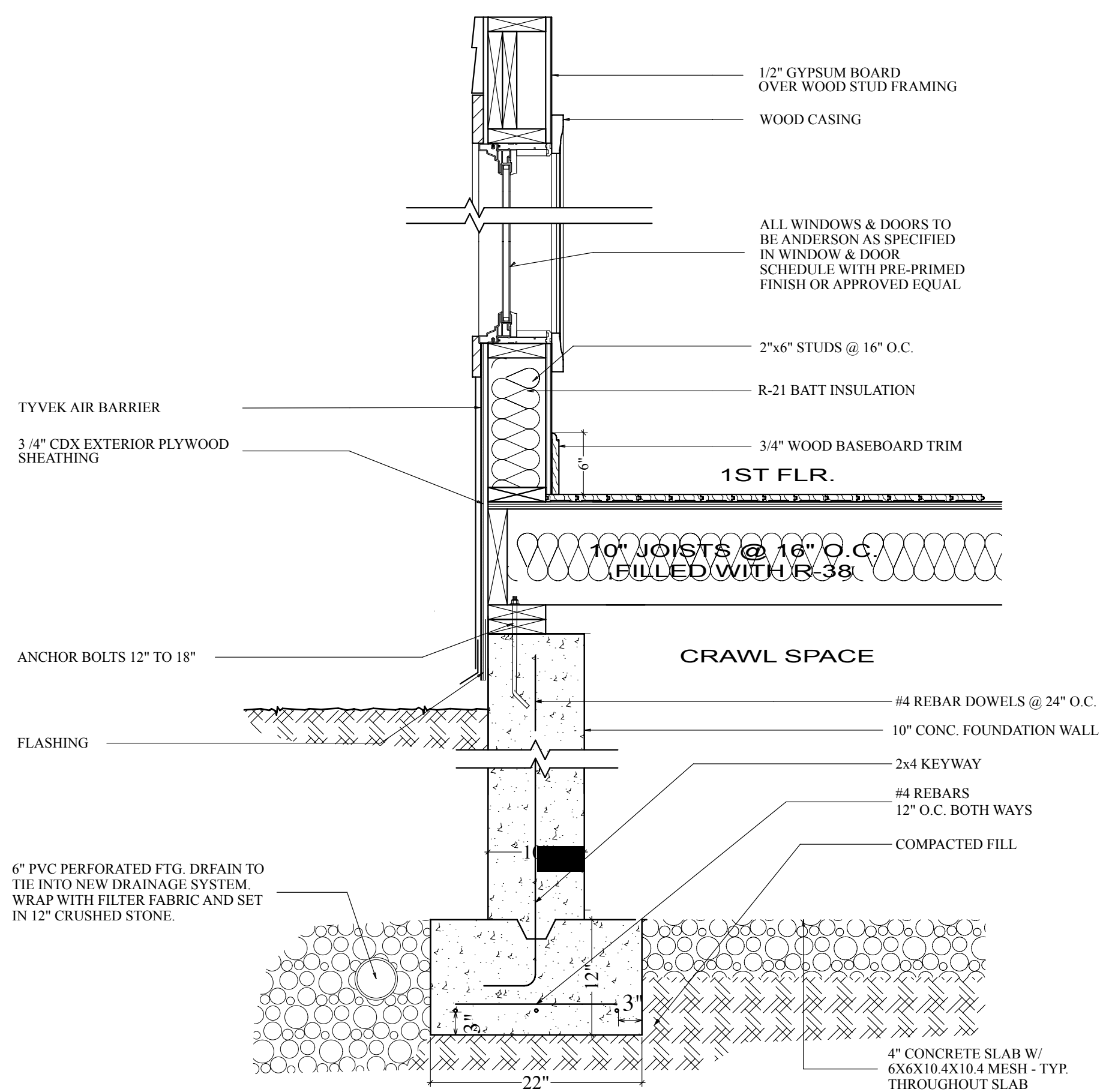
NON-BEARING PARTITIONS
 SCALE: N.T.S.

B
 A-010 **TYPICAL FRAMING DETAILS**
 SCALE: 1/4" = 1' - 0"

**BOLTING PATTERN AT
 FLUSH HEADER
 @ SECOND FLOOR**



C
 A.010 **BOLTING DETAIL**
 SCALE: NTS



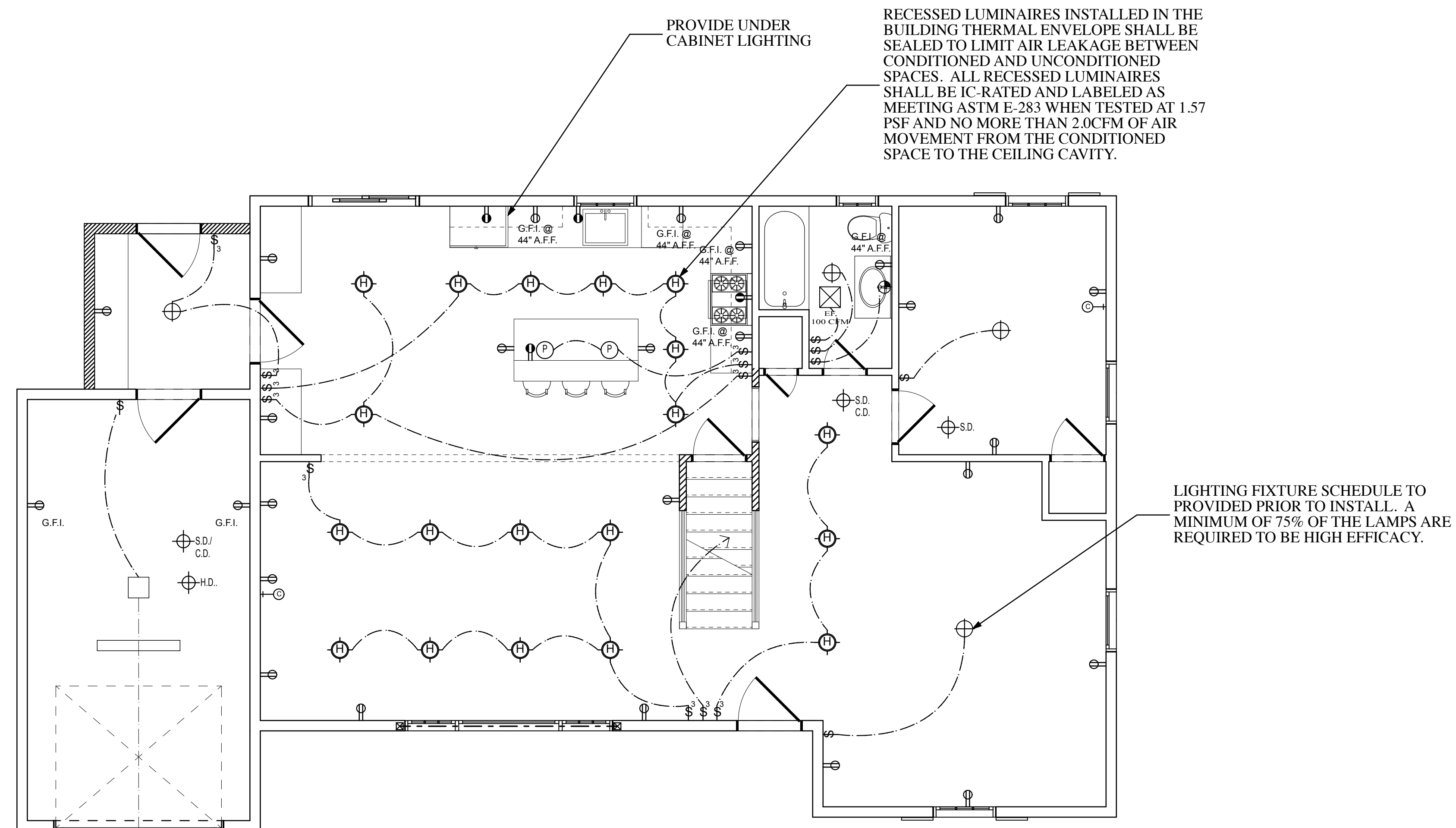
D
 A-010 **PROPOSED WALL SECTION**
 SCALE: 1"=1'-0"

ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK TO BE PERFORMED BY A LICENSED ELECTRICIAN.
2. ELECTRICAL CONTRACTOR TO EVALUATE EXISTING 150 AMP SERVICE FOR REPLACEMENT IF NECESSARY.
3. ELECTRICAL CONTRACTOR TO FINALIZE LAYOUT WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR LAYOUT FIXTURES WITH STRINGLINES AND NOTIFY ARCHITECT/ENGINEER OF ANY OBSTRUCTIONS PRIOR TO INSTALLATION TO MINIMIZE DAMAGE TO FRAMING AND/OR BLOCKING.
5. ALL ELECTRICAL OUTLETS, SWITCHES AND COVER PLATES TO BE COLOR WHITE, UNLESS OTHERWISE NOTED.
6. ALL LIGHT SWITCHES TO BE MOUNTED AT 44" ABOVE FINISHED FLOOR TO CENTERLINE OF THE ELECTRICAL BOX.
7. ALL ELECTRICAL OUTLETS TO BE MOUNTED AT 15" ABOVE FINISHED FLOOR TO THE CENTERLINE OF THE ELECTRICAL BOX. UNLESS OTHERWISE NOTED ON ELECTRICAL PLAN.
8. ALL ELECTRICAL WIRING AND ASSOCIATED ACCESSORIES TO BE INSTALLED AS PER LOCAL AND STATE CODES.
9. ALL ELECTRICAL WIRING ASSOCIATED WITH KITCHEN APPLIANCES TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING FOR MECHANICAL SYSTEMS CONDENSER UNITS. G.C. & ELECTRICIAN SHALL COORDINATE WITH MECHANICAL CONTRACTOR.
11. ELECTRICAL CONTRACTOR SHALL INSTALL REQUIRED WIRING AND SMOKE DETECTORS AND CARBON MONOXIDE DEVICES THROUGH OUT HOSE AS REQUIRED PER CODE.
12. ELECTRICAL CONTRACTOR TO DETERMINE AND VERIFY ANY LOCATIONS FOR COMMUNICATIONS AND/OR INTERNET ACCESS.

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LIGHTING AND ELECTRICAL LEGEND						
\$	LEVITON LIGHT SWITCH TYPE: DECORA COLOR: WHITE	⊕	LEVITON DEDICATED DUPLEX OUTLET TYPE: DECORA COLOR: WHITE	⊕	EXTERIOR LIGHT FIXTURE SPEC. TO FOLLOW	
\$ _d	LEVITON SLIDE DIMMER SWITCH TYPE: DECORA COLOR: WHITE	K	LEVITON TELEPHONE JACK TYPE: DECORA COLOR: WHITE	⊕	FLUSH MOUNTED FLOOR OUTLET COLOR: T.B.D.	
\$ ₃	LEVITON LIGHT SWITCH (3-WAY) TYPE: DECORA COLOR: WHITE	⊕	LEVITON GFI JACK TYPE: DECORA COLOR: WHITE	⊕	FLUSH FLOOR MOUNTED PHONE JACK COLOR: T.B.D.	
\$ _{3d}	LEVITON SLIDE DIMMER SWITCH (3-WAY) TYPE: DECORA COLOR: WHITE	⊕	LEVITON CEILING LAMP HOLDER PORCELAIN	⊕	HALO WALL WASHER DOWN LIGHT COLOR: WHITE	
\$ ₄	LEVITON LIGHT SWITCH (4-WAY) TYPE: DECORA COLOR: WHITE	⊕	HALO RECESSED DOWN LIGHTS 4" DIAMETER APERTURE TYPE: DECORA COLOR: WHITE	⊕	CENTRAL VACUUM SYSTEM POWER OUTLETS. SEE SPEC. FOR MANUFACTURE.	
\$ _{4d}	LEVITON SLIDE DIMMER SWITCH (4-WAY) TYPE: DECORA COLOR: WHITE	⊕	HALO RECESSED WEATHER PROOF DOWN LIGHTS WITH 4" APERTURE TYPE: DECORA COLOR: WHITE	⊕	ALARM SYSTEM KEY PADS. SEE SPEC. FOR MANUFACTURE.	
⊕	LEVITON DUPLEX OUTLET TYPE: DECORA COLOR: WHITE	⊕	VANITY LIGHT FIXTURE	⊕	⊕	PENDANT LIGHT STYLE LIGHT FIXTURE
⊕	LEVITON DUPLEX G.F.C.I. OUTLET TYPE: DECORA COLOR: WHITE	⊕	HALO RECESSED SHOWER LIGHT FIXTURE. COLOR: WHITE	⊕	⊕	INDICATES SMOKE DETECTOR
⊕	LEVITON DUPLEX G.F.C.I. OUTLET TYPE: DECORA COLOR: WHITE	⊕	BATHROOM RECESSED EXHAUST FAN GRILL COLOR: WHITE	⊕	⊕	INDICATES WALL SOUNDC

PROJECT
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DRAWN BY: JV	CHECKED BY:	APPROVED BY:
DRAWING TITLE: ELECTRICAL PLAN		

DRAWING NO.:
A.011



DIVISION OF BUILDING STANDARDS AND CODES

STATE OF NEW YORK

DEPARTMENT OF STATE

ONE COMMERCE PLAZA
99 WASHINGTON AVENUE
ALBANY, NY 12231-0001
TELEPHONE: (518) 474-4073
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ANDREW M. CUOMO
GOVERNOR

ROSSANA ROSADO
SECRETARY OF STATE

July 20, 2020

Mr. Kyle Nornhold
Apex Homes
274 US HWY 522N
Middleburg, PA 17842

NYS RESIDENTIAL MODULAR SYSTEM CODE UPDATE

NEW SYSTEM APPROVAL NUMBER: **M1168-2020-042**

PREVIOUS APPROVAL NUMBER: **M1168-2016-081**

Dear Mr. Nornhold:

In reference to your written application for approval received March 30, 2020 to construct Factory Manufactured **Detached One- and Two-Family Dwellings and Multiple Single-Family Dwellings (Townhouses) System of Models** designated **M1168-2020-042** is hereby approved to allow such construction in compliance with the 2020 NYS Uniform Codes (2020 RCNYS). This approval is authorized under Title 19 NYCRR Part 1209 and **will remain in effect until July 20, 2022**, unless sooner revoked, and is subject to renewal at that time. A revision in the adopted code version will also warrant a revision in this approval. The conditions of this Systems Approval also include the following:

Construction Classification: Type VB

Maximum Ground Snow Load: 120 PSF

Seismic Design Category: A, B, C
Townhouses shall be designed to Seismic C or D0
(Per 2020 RCNYS Section R301.2.2)

Wind Speed: 115 mph to ≤ 139 mph Vult
Wind speed ≥ 140 mph will require engineered design. Individual Models located in regions having a ultimate wind speed of 140 miles per hour or greater shall be submitted to the Division for review and approval.

Exposure Category: Exp B or C (standard)

Climate Zone: 4, 5, and 6

Additional Conditions: See the System Cover Sheet for Wind Design Methodologies used in; "Hurricane Prone Regions" and "Non-Hurricane Prone Regions."

1. The manufacturer will submit their Monthly Permit Report summarizing (listing) all permit sets with information about project location, dwelling type, production serial number, and approval number.
2. Individual permit sets are to be submitted to your independent third party agent for review prior to fabrication. Any deficiencies that are found will be reported to the Manufacturer and corrective actions shall be immediately undertaken. Every sheet of each permit plan set submitted shall be signed and sealed by a licensed design professional registered to practice in New York State. The design professional must also provide a statement on the cover sheet of the permit plan set that certifies the plans have been developed from the original systems set of plans and specifications. Additionally, the certifying design professional shall not be in any way affiliated or associated with the manufacturer's third party quality assurance agency. The following statement may be used to provide this certification;

“The plans and specifications of this permit plan set are derived from and consistent with the systems set of plans and specifications approved and on file with the Department of State, which were approved on July 20, 2020 under Systems number M1168-2020-042.”

The approval identified above is limited to all construction that takes place in the factory. Site related work including installation and connection of the building and/or components, foundations, mechanical connections, stairs, decks, etc. is the responsibility of the Code Enforcement Official. The presence of the insignia of approval shall be presumptive evidence that the factory manufactured home or component complies with the provisions of the 2020 RCNYS. If the code enforcement official believes that any factory manufactured component is in violation of one or more provisions of the above referenced code, he/she should contact the DOS for further review and/or determination.

3. All trusses designed for use in Modular Buildings shall meet the requirements of the 2020 RCNYS and the design methodology associated with the ASCE 7-16 design standard.

Individual permit plan sets shall provide as a minimum the following information (but not limited to):

Cover Sheet which provides information on:

- The homeowner/project name, project address including Zip Code and County location
- Structural design criteria listing applicable design loads such as ground snow load, seismic design category, wind speed, live loads, dead loads, flood hazard, etc.
- Applicable building codes and design specifications
- Energy code information including method of compliance, the climate zone used for thermal design parameters, and a statement by a design professional certifying that the plans are in compliance with Chapter 11 Energy Efficiency of the 2020 RCNYS.
- The Occupancy Classification, Type of Construction and square footage
- Applicable general notes
- Index of drawings
- Manufacturer's title block
- List of items NOT being provided by the modular manufacturer
- Verify the intended foundation type and show height above grade, and if the AHJ has determined whether the home is three stories above grade and required to be equipped with an NFPA 13D Sprinkler System.
- Additionally, you must verify the location of the building on the lot according to the 2020 RCNYS Section R302 "Fire-Resistant Construction". Identify the lines used to determine fire separation distance and provide protection complying with Table R302.1(1) "Exterior Walls" and Table R302.1(2) "Exterior Walls – Dwellings with Fire Sprinklers" and Table R302.6 "Dwelling-Garage Separation".

Foundation Plan (*informational only*) showing:

- Identify all uniform and concentrated gravity loads in addition to all sliding, uplift, and overturning loads imposed on the foundation by this specific model, all of which need to be used by a design professional in developing the final foundation design.
- Anchor bolt/hold down locations and spacing, specialty anchor locations and types
- Stairwell location and framing enclosure if required to complete the conditioned space enclosure

Floor Plans showing:

- Location of the "insignia of approval"
- Square footage area of rooms
- Amounts of required/provided light and ventilation and emergency egress window locations
- Location and amounts of wall bracing based on Table R602.10.3 and length requirements based on Table R602.10.5.
- Location/type of fire rated wall assemblies
- Header and beam sizes
- Attic access locations
- Locations of cathedral or vaulted ceilings
- Applicable project specific notes

Building Cross Sections showing:

- Identification of structural members and roof system
- Materials used in roof and wall assemblies
- Insulation locations and types, sizes and "R" values
- Field completed insulation assemblies

- Building integration details (module connections)
- Location/type of horizontal fire separation and required fire blocking
- Roof truss bracing and structural connections (uplift, lateral, etc.)
- Attic ventilation
- Applicable project specific notes

Building Elevations showing:

- Floor to floor wall heights
- Finished grade line with distance to 1st finished floor to show need for compliance with R313 for automatic sprinkler system. Show building mean roof height (MRH)
- Siding materials
- Window types, ventilation and egress area, U values
- Statement concerning code required field completed items (stairs, landings, decks, handrails, lighting, etc.)
- Label emergency egress windows
- Applicable project specific notes

Electrical Plans showing:

- Smoke and carbon monoxide detector locations
- GFCI outlet locations and arc fault protection provided
- Junction box locations for field connections and miscellaneous future installations
- Ventilation fan capacity and outlet locations
- Electrical load calculations
- Electric panel, Lighting and outlet locations
- Applicable project specific notes

Mechanical/Plumbing Plans showing:

- Drain, waste and venting layout including all pipe sizes (specific to permit set)
- Potable water supply piping (specific to permit set)
- Type and location of domestic hot water heating system
- Type and location of HVAC equipment and duct sizing information
- Heat loss calculations (if HVAC is provided by manufacturer)

Miscellaneous Plans and Details showing:

- Manufacturers truss drawings including special requirements addressed such as sliding, drifting or unbalanced snow load conditions
- Completed "Notice of Utilization of Truss Type Construction" form. (Title 19 NYCRR Part 1265)
- Summary of references to system for selection of structural members
- REScheck energy compliance reports (specific to permit set)
- Window and Door Schedules providing manufacturers' information

It should be noted that each page of drawings and calculations shall be signed, sealed, and dated by a New York State registered design professional. This approval is subject to the condition that all construction is to be in conformance with the 2020 New York State Uniform Code (2020 RCNYS). **A copy of this letter shall accompany all plans and specifications submitted as part of a permit application to the local jurisdiction.**

Prior to shipment from the factory each manufactured home, model and component shall have securely attached thereto a NYS Insignia as stipulated in Part 1209 of Title 19 NYCRR, paragraph 1209.5. The Insignia of Approval Order form is available by emailed me at: donald.thomas@dos.ny.gov

Please Note: Use the NEW System Approval Number (at the top of this letter) **when ordering Insignia.**

Sincerely,





Don Thomas Jr., AIA – Senior Architect

Attachment: NYSDOS Stamped set of pdf Systems drawings
cc: Harold Raup and Renee Moist - PFS

12 Freedom Rd

*2nd Story Addition

Legend

-  3243 Fowlerville Rd
-  Hill Painting



Google Earth

Image Landsat / Copernicus



2020 NEW YORK STATE SYSTEM DRAWINGS

BUILDER: CUSTOM MODULAR DIRECT
PROJECT NAME: DIBENEDETTO/3042 CUSTOM ADDITION
PROJECT ADDRESS: 12 FREEDOM ROAD, WHITE PLAINS NY 10603

CLASSIFICATION

USE GROUP: RESIDENTIAL
OCCUPANT LOAD: DETACHED 1 & 2 FAMILY AND TOWNHOUSE
CONSTRUCTION TYPE: VB WOOD FRAMED UNPROTECTED
MODEL TYPES: RANCH, CAPE, 2-STORY, TOWNHOUSE

MULTIPLE SINGLE FAMILY UNITS MAY BE JOINED TOGETHER TO FORM A TOWNHOUSE. UNITS REQUIRE ONE OF THE FOLLOWING OPTIONS: (1) 2-HOUR SEPARATION WALL; (2) 1-HOUR SEPARATION WALLS.

STORIES ABOVE FOUNDATION: 1 STORY (2ND STORY ADDITION)
HEIGHT ABOVE FOUNDATION: VARIES DUE TO GRADE, CEILING HEIGHT AND ROOF PITCH, BUT NOT GREATER THAN 25' MEAN ROOF HEIGHT

LOCATION ON LOT: A HOUSE SPECIFIC SITE PLAN SHALL BE PROVIDED WITH EACH INDIVIDUAL PERMIT SET

DESIGN CRITERIA

SNOW LOAD: 48 PG - 1218 FT (SEE NOTE BELOW)

ROOF LIVE LOAD: FOR BUILDINGS LOCATED IN REGIONS WITH GROUND SNOW LOADS 80 PSF OR LESS, DESIGNS SHALL BE IN ACCORDANCE WITH CHAPTERS 5, 6, & 8. BUILDINGS IN REGIONS WITH GROUND SNOW LOADS GREATER THAN 80 PSF SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE AND ARE INCLUDED IN THE DESIGN SCOPE OF THE 2020 RCNYS CALCULATIONS MANUAL SUBMITTED AS PART OF THIS APPROVAL.

ADJUSTED GROUND SNOW LOAD: GROUND SNOW LOADS SHALL BE ADJUSTED FOR ELEVATION BASED ON 2 PSF PER 100 FT ELEVATION ABOVE 1,000 FT ASL.

ROOF DEAD LOAD: 10 PSF

CEILING LIVE LOAD: 10 PSF - 20 PSF

CEILING DEAD LOAD: 10 PSF

FLOOR LIVE LOAD: 40 PSF - NON SLEEPING AREAS
30 PSF - SLEEPING AREAS

FLOOR DEAD LOAD: 10 PSF

WIND SPEED: 115 WIND

LOCAL WEATHER DATA SHALL BE PROVIDED IN INDIVIDUAL PERMIT SETS FOR UNITS LOCATED IN SPECIAL WIND REGIONS

WIND EXPOSURE: B

SPECIAL WIND REGIONS: WIND SPEEDS FOR HOMES LOCATED IN SPECIAL WIND REGIONS SHALL BE VERIFIED WITH THE LOCAL CODE OFFICIAL

WALL BRACING: PRESCRIPTIVE WALL BRACING IS LIMITED TO WIND SPEEDS OF LESS THAN 140 MPH ULTIMATE DESIGN WIND SPEED IN ACCORDANCE WITH TABLE R602.10.3(1). DESIGNS FOR WIND SPEEDS OF LESS THAN 140 MPH EXPOSURE D SHALL BE SUBMITTED ON AN INDIVIDUAL MODEL APPROVAL BASIS. WALL LINES THAT DO NOT MEET PRESCRIPTIVE BRACED WALL REQUIREMENTS SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.

V - REQUIRED COMPLIANCE SIGN
R - ON-SITE BY THE BUILDER

SEISMIC DESIGN CATEGORY: B - 0.167g ≤ SDs < 0.33g

PRESCRIPTIVE WALL BRACING DESIGNS FOR SEISMIC DESIGN CATEGORY REGIONS DO SHALL BE SUBMITTED ON AN INDIVIDUAL MODEL APPROVAL BASIS.

SITE CLASS: D

CLIMATE ZONES: 6

FLOOD AREAS: BASE FLOOD ELEVATIONS FOR HOMES LOCATED IN FLOOD AREAS SHALL BE DETERMINED USING FEMA FLOOD MAPS AND SHALL BE VERIFIED BY ELEVATION CERTIFICATES OR VERIFIED BY THE LOCAL CODE OFFICIAL. MODULAR CONSTRUCTION FIRST FLOOR HEIGHT SHALL BE NOTED TO BE A MIN OF 2' ABOVE THE FLOOD LEVEL.

LOCAL INSPECTION REQUIREMENTS

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED IN THE FACTORY BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY THE THIRD PARTY INSPECTION AGENCY, AND ARE NOT CERTIFIED BY THE APPROVAL OF THESE SYSTEMS DRAWINGS. CODE COMPLIANCE MUST BE DETERMINED AT THE LOCAL LEVEL:

- 1. FOUNDATION DESIGN AND CONSTRUCTION
2. CRAWL SPACE OR BASEMENT ACCESS FROM EXTERIOR. CONNECTIONS FROM MODULAR UNIT TO THE FOUNDATION.
3. BASEMENT ELECTRICAL COMPONENTS. FOUNDATION VENTILATION
4. INSTALLATION OF RIDGE VENT ATTIC VENTILATION
5. INSTALLATION OF FACTORY SUPPLIED GABLE AND EAVE OVERHANGS
6. OPTIONAL METAL ROOFING
7. INSTALLATION OF FACTORY SUPPLIED MATERIALS FOR PORCH AND DECK FLOOR, POSTS, HEADERS, PORCH CEILING FINISH AND EXTERIOR RAILING
8. ACCESS TO GRADE FROM EXTERIOR DOORS
9. GUTTERS, SPLASH BLOCKS, AND DOWNSPOUTS
10. ANY CONNECTIONS OR MATERIALS DESIGNATED WITHIN THIS PLAN SET AS FOLLOWS:
12.1. * - SITE PROVIDED AND INSTALLED CONNECTION
12.2. ** - FACTORY SUPPLIED CONNECTOR REQUIRING FIELD INSTALLATION
13. FLOOR INSULATION
14. HEATING SYSTEM OTHER THAN FACTORY INSTALLED ELECTRIC BASEBOARD OR HOT WATER BASEBOARD HEAT.
15. ELECTRICAL SERVICE
16. INSTALLATION OF FACTORY PROVIDED PADDLE FANS AND SOME INTERIOR LIGHTS.
17. EXTERIOR LIGHT FIXTURE INSTALLATION.
18. SMOKE DETECTORS TEST
19. HOOKUPS FOR FACTORY INSTALLED TV AND PHONE BOXES.
20. COMPLETION OF THE NY ENERGY CERTIFICATE (SEE INDIVIDUAL PLAN SUBMITTAL FOR ENERGY CODE CALCULATIONS FOR ADDITIONAL ITEMS TO BE INSPECTED ON-SITE)
21. ON-SITE TRUSS CONNECTIONS
22. UNFINISHED CAPE AREAS.
23. PIPING EXPOSED TO UNCONDITIONED SPACES.
24. PLUMBING CONNECTIONS TO FIXTURES FROM MAIN DRAIN AND SUPPLY LINES.
25. VENT EXTENSIONS THROUGH ROOF.
26. BATH AND DRYER EXHAUST DUCT THROUGH CEILING TO EXTERIOR.
27. FIREPLACE, WOOD STOVE AND CHIMNEY INSTALLATION.
28. APPLIANCE INSTALLATIONS WHICH MAY INCLUDE BUT ARE NOT LIMITED TO:
28.1. RANGE
28.2. REFRIGERATOR
28.3. WASHER AND DRYER
28.4. WATER HEATER

SPRINKLER REQUIREMENTS

SECTION R313 - AN AUTOMATIC RESIDENTIAL FIRE SPRINKLER SYSTEM DESIGNED PER P2904 OR NFPA 13D SHALL BE PROVIDED EITHER IN FACTORY OR ON-SITE FOR ALL 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES WHEN HOME HAS A HEIGHT OF:
1. THREE STORIES ABOVE GRADE PLANE
2. TWO STORIES ABOVE GRADE PLANE AND A HABITABLE ATTIC
3. TWO STORIES ON AN OUT OF GRADE FOUNDATION WHERE THE FIRST STORY FINISHED FLOOR IS 6' OR MORE ABOVE GRADE PLANE.
EXCEPTION: WHERE AN OPEN FOUNDATION IS DESIGNED IN FLOOD HAZARD AREAS, THE OPEN FOUNDATION SHALL NOT BE CONSIDERED A STORY SO LONG AS THAT AREA IS NOT USED FOR STORAGE OF COMBUSTIBLE MATERIALS.

GENERAL NOTES

- 1. ALL CODE SECTION REFERENCES LISTED IN THIS PLAN SET REFERENCE THE RESIDENTIAL CODE OF NYS UNLESS INDICATED OTHERWISE.
2. FOR INFORMATION NOT SHOWN OR SPECIFIED IN THIS SET OF DRAWINGS, PLEASE REFER TO THE QUALITY ASSURANCE MANUAL. THESE DRAWINGS ARE THE PROPERTY OF THE MANUFACTURER AND SHALL NOT BE REPRODUCED OR COPIED WITHOUT AUTHORIZATION.
3. THE DRAWINGS IN THIS SUBSET SHOULD NOT BE SCALED FOR DIMENSIONAL REFERENCE. ALL DIMENSION LINES AND NOTES SUPERSEDE ANY SUCH REFERENCE.
4. ALL NOTES WITH REFERENCE TO "IN FIELD", "ON SITE", OR "BY BUILDER" ARE PERTAINING TO THE RESPONSIBILITIES OF THE GENERAL CONTRACTOR.
5. BLOWER DOOR TESTING SHALL BE COMPLETED BY AN APPROVED THIRD PARTY ON SITE AFTER THE COMPLETION OF THE MODULE SET IN ACCORDANCE WITH ASTM E 779 OR ASTM 3 1827 IN COMPLIANCE WITH N1102.4.1.2. A WRITTEN REPORT OF THE TESTING RESULTS SHALL BE PROVIDED TO THE LOCAL CODE OFFICIAL. A COPY OF THE TEST RESULTS SHALL ALSO BE PROVIDED TO THE MODULAR MANUFACTURER FOR THEIR FILE. SEE PG 2 NOTE #45 FOR ADDITIONAL INFORMATION.

TYPICAL ABBREVIATIONS

ADD'L = ADDITIONAL
AFF = ABOVE FINISHED FLOOR
AF = ARC FAULT
AP = ACCESS PANEL
BSMT = BASEMENT
BTU = BRITISH THERMAL UNIT
CB_ = CEILING BEAM #
CFM = CUBIC FEET PER MINUTE
CLG = CEILING
CLG ACC = CEILING ACCESS PANEL
CLO = CLOSET
CO = CARBON MONOXIDE DETECTOR
CON = CONNECTION
CPVC = CHLORINATED POLYVINYL CHLORIDE
CSMT = CASEMENT
CT = COUNTERTOP
D = DRYER
DBL = DOUBLE
DIA = DIAMETER
DW = DISHWASHER
DWV = DRAIN, WASTE, VENT
EA = EACH
EGR = EGRESS
ELEC = ELECTRIC
EXT = EXTERIOR
F = FAHRENHEIT
FB_ = FLOOR BEAM #
FG_ = FLOOR GIRDER #
FLR = FLOOR
FRMG = FRAMING
FT = FOOT OR FEET
GA = GAUGE
GFI = GROUND FAULT INTERRUPTER
GYP = GYPSUM
HB_ = HIP BEAM #
HDR = HEADER
HDWR = HARDWARE
HT = HEIGHT
INT = INTERIOR
JB OR JBOX = JUNCTION BOX
LBS = POUNDS
LIN = LINEN
LOC'N = LOCATION'
LVL = LAMINATED VENEER LUMBER
MAT'L = MATERIAL'
MAX. = MAXIMUM
MIN. = MINIMUM
ML = MICRO LAM BEAM
MPH = MILES PER HOUR
M/W = MICROWAVE'
NY = NEW YORK
O.C. = ON CENTER
OPT. = OPTIONAL
OSB = ORIENTED STRAND BOARD
PAN. = PANTRY
PE = PHOTO ELECTRIC
PLF = POUNDS PER LINEAR FOOT
PLYWD = PLYWOOD
PROVD = PROVIDED
PSF = POUNDS PER SQUARE FOOT
PSI = POUNDS PER SQUARE INCH
PVC = POLYVINYL CHLORIDE
QTY = QUANTITY
RB_ = RIDGE BEAM #
REV. = REVISED OR REVISION
REQ. = REQUIRED
RM = ROOM
RO = ROUGH OPENING
SAN = SANITARY
SD = SMOKE DETECTOR
SECT = SECTION
S.F. = SQUARE FOOT / FEET
SGL = SINGLE
SHGC = SOLAR HEAT GAIN COEFFICIENT
SHTG = SHEATHING
S/L = SHIP LOOSE'
SPF = SPRUCE PINE FIR
SUPP = SUPPLY
SYP = SOUTHERN YELLOW PINE
TEMP = TEMPERATURE
T&G = TONGUE & GROOVE
TRPL = TRIPLE
TRTD = TREATED
TYP = TYPICAL
W = WASHER
W.I.C. = WALK IN CLOSET
W/D = WITH
W/D = WASHER/DRYER
WP = WATERPROOF

DRAWING INDEX:

Table with columns: SHEET #, DRAWING INDEX, REV DATE, LAYER, SHEET #, DRAWING INDEX, REV DATE, LAYER. Lists various drawing sheets and their details.

ENERGY TESTING AGENCY: EXPEDIANT ENVIRONMENTAL SOLUTIONS LLC 3657 ALBANY POST ROAD POUGHKEEPSIE, NY 12601 845-229-1437

SITE COMPLETION REQUIREMENTS:

ALL MATERIALS FOR THE FOUNDATION, INCLUDING SUPPORT COLUMNS AND CONNECTIONS, FIRE PROTECTION SYSTEM (CO DETECTORS/SMOKE DETECTORS ETC.) (IDENTIFIED ON PLAN), ON-SITE TILE, INSULATION AND AIR SEALING OF CEILING ACCESS PANELS, EXTENSIONS OF VENTS THROUGH THE ROOF, FIELD INSTALLED HANDRAILS, ON-SITE ROOF CONNECTIONS LISTED ON PAGE A1.13-A1.14 OF PERMIT SET, RODENT PROOFING, COMPLETION OF SHINGLES ON ROOF AFTER ROOF IS RAISED, GUTTERS AND DOWN SPOUTS, RIDGE VENT COMPLETION, GABLE END SIDING, SOFFIT INSTALLATION, INTERCONNECTION OF MODULAR UNITS TO EACH OTHER AND THE O.S. 1ST FLOOR, INTERCONNECTION OF WIRES, ALL SUPPLIES AND DRAINS BELOW THE FLOOR JOISTS, INSTALLATION OF ALL GAS LINES, ELECTRICAL PANEL DISCONNECT AND SERVICE ENTRY WIRE, ON-SITE APPLIANCES, INSTALLATION OF FLOOR INSULATION, AIR LEAKAGE TESTING, INSULATED FLEX DUCT FROM BATHROOM FANS DIRECTLY TO THE EXTERIOR, PORCH ROOF, FURNACE/AIR HANDLER AND DUCTWORK, PORCH SLAB/POSTS, DECKS AND WATER HEATER AND INSTALLATION, FOUNDATION INSULATION.

STATE BUILDING CODES

- 2020 RESIDENTIAL CODE OF NEW YORK STATE
2017 NATIONAL ELECTRICAL CODE
ENERGY COMPLIANCE SHALL BE DEMONSTRATED BY USE OF RES-CHECK SOFTWARE AND SHALL SHOW COMPLIANCE WITH EITHER THE "ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE-2020" OR CHAPTER 11 OF THE RCNYS. PRINT OUT SHALL SHOW ECCCNYS 2020, OR RCNYS CHAPTER 11 IN THE TITLE.

LABEL LOCATIONS

- DATA PLATE, THIRD PARTY LABEL & STATE LABEL LOCATED UNDER KITCHEN SINK
THIRD PARTY IN EACH MODULE LOCATED IN SECONDARY CLOSET OR OTHER SPECIFIC PLAN DESIGNATED LOCATION.

THIS IS A PORTION OF THE NEW YORK STATE SYSTEMS PACKAGE WHICH INCLUDES:
2020 RCNYS CALCULATIONS MANUAL
2020 RCNYS SYSTEM DRAWINGS
QUALITY ASSURANCE MANUAL
INSTALLATION MANUAL

SITE COMPLETION REQUIREMENTS:

THIS DOCUMENT AND THE SUBJECT MATTER CONTAINED HEREIN IS PROPRIETARY AND MAY NOT BE REPRODUCED WITHOUT THE PERMISSION OF "APEX HOMES OF PA, LLC"

THIRD PARTY INFORMATION

THIRD PARTY APPROVAL AGENCY: PFS CORPORATION 417 CENTRAL ROAD, SUITE #2 BLOOMSBURG, PA 17815 PH. 570-784-8396 FAX 570-784-5961

STATE APPROVAL:

Warning: It is a violation of the NYS Education Law Article 145 for any person, unless he is acting under the direction of a Licensed Professional Engineer, to alter this item in any way.

Professional Engineer Seal for Ryan W. Borling, State of New York, License No. 089342-1, dated Mar 22, 2022.

THE PEAK OF PERFECTION
APEX HOMES OF PA, LLC
7172 ROUTE 582 MIDDLEBURG, PA 17842 PHONE: (570) 837-2039



THIS DOCUMENT AND THE SUBJECT MATTER CONTAINED HEREIN IS PROPRIETARY AND MAY NOT BE REPRODUCED WITHOUT THE PERMISSION OF "APEX HOMES OF PA, LLC"

CUSTOMER/PROJECT: SYSTEMS DRAWINGS
BUILDER:

Table with columns: REV#, DATE, REVISIONS, REVISIONS, ADD CLIMATE ZONES AND RESCHECK PGS, BY, GLENCO, CHECKED BY, SCALE, DATE, GLENCO, N.T.S.

FILE:
SQ.FT.:
STATE:
TYPE:
MODEL:
DRAWING: COVER SHEET
SHEET: 1

NY CERTIFICATION FOR MODULARS
 YES NO

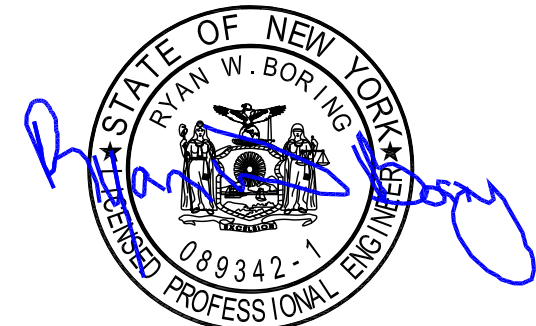
THE FOLLOWING ELEMENTS OF CERTIFICATION REQUIRED BY THE MANUFACTURER TO EXCLUDE EACH HOME ARE AS FOLLOWS:
 1) DESIGNATED ONLY FOR ERECTION ON A SITE-BUILT PERMANENT FOUNDATION
 2) NOT DESIGNED TO BE MOVED ONCE INSTALLED.
 3) DESIGNED AND MANUFACTURED TO COMPLY WITH NATIONALLY RECOGNIZED MODEL BUILDING CODE OR EQUIVALENT TO BUILDING CODES FOR ON-SITE HOUSING, OR WITH MINIMUM PROPERTY STANDARDS ADAPTED BY THE SECRETARY PURSUANT TO TITLE II OF THE NATIONAL HOUSING ACT, AND
 4) TO THE MANUFACTURER'S KNOWLEDGE IS NOT INTENDED TO BE USED OTHER THAN ON A SITE-BUILT PERMANENT FOUNDATION.



*TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT
 1. THIS FACTORY MANUFACTURED HOME (FMH) PLAN HAS BEEN DERIVED FROM A SYSTEM SET OF FMH PLANS PREVIOUSLY APPROVED BY DDS, APPLICATION NO. M1168-2020-042, MANUFACTURER'S NO. M1168, WHICH HAS NOT BEEN MODIFIED IN ANY MANNER.
 2. THE ENERGY PORTION OF FMH PLAN HAS BEEN PREPARED USING CHAPTER 5 OF NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE (ENERGY CODE) AND IS IN FULL COMPLIANCE WITH THE ENERGY CODE.

IT IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THE DRAWINGS IN ANY WAY TO CHANGE THE STRUCTURAL DESIGN OR INTENT. IF A DRAWING BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX HIS SEAL TO THE DRAWING WITH A NOTATION * ALTERED BY * FOLLOWED BY HIS SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NOTE: ACTUAL HOUSE MAY VARY FROM ELEVATION



Mar 22, 2022

CUSTOM MODULAR DIRECT/DIBENEDETTO

3042 CUSTOM ADDITION
 FRONT ELEVATION

SEISMIC DESIGN CATEGORY: B

BUILDING LOCATION:
 12 FREEDOM ROAD
 WHITE PLAINS, NY 10603
 WESTCHESTER COUNTY

SNOW ZONE: 30 PSF
 WIND ZONE: 115 MPH VULT
 WIND LOAD: 21 PSF

SCALE: 3/16" = 1'-0"

LAYER: FRONT

FILE NO: A17552(97)

STAGE	DATE	DRAWN BY
PRELIM	10/26/21	KND
FINAL	12/3/21	MS
REV. FINAL	1/17/22	MS
PURCHASING	2/28/22	KND
APPROVAL	3/22/22	KD
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-	-	-
-	-	-

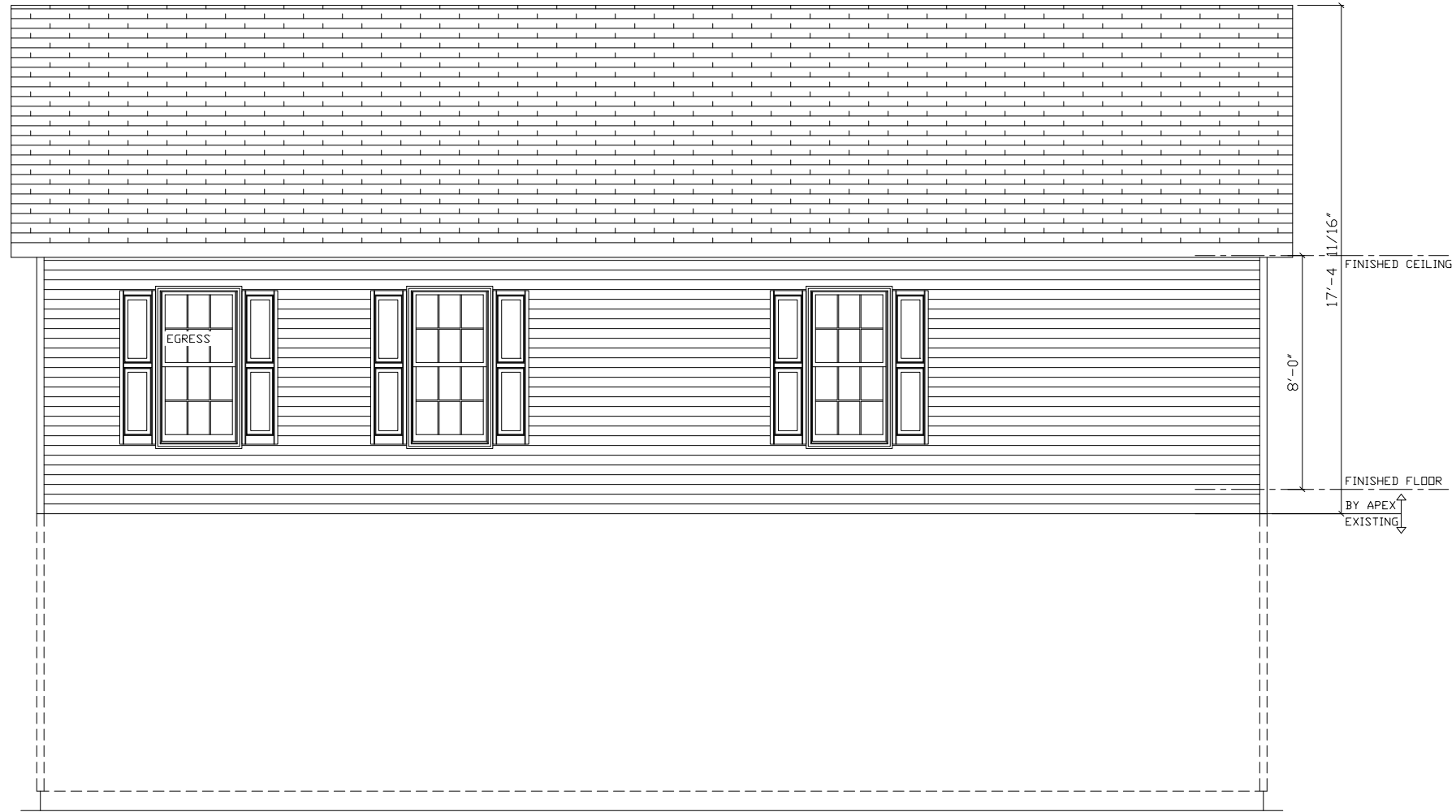
THE PEAK OF PERFECTION
APEX
 HOMES OF PA, LLC.
 7172 ROUTE 522
 MIDDLEBURG, PA 17842
 PHONE: (570) 837-2333



A1.1

THESE PLANS HAVE BEEN EXTRACTED FROM APPROVED BUILDING SYSTEMS FILED WITH THE STATE.

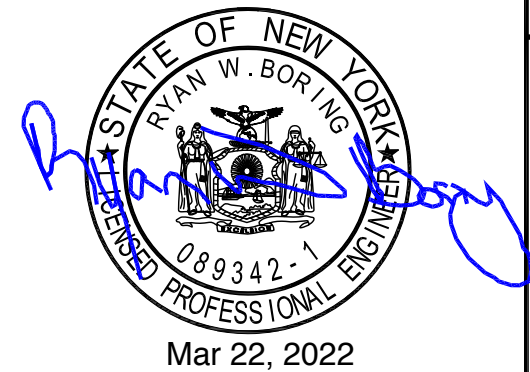
SN-11909/QN-17552/JN-72236/NY



*TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT
 1. THIS FACTORY MANUFACTURED HOME (FMH) PLAN HAS BEEN DERIVED FROM A SYSTEM SET OF FMH PLANS PREVIOUSLY APPROVED BY DDS, APPLICATION NO. M1168-2020-042, MANUFACTURER'S NO. M1168, WHICH HAS NOT BEEN MODIFIED IN ANY MANNER.
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NOTE: ACTUAL HOUSE MAY VARY FROM ELEVATION



CUSTOM MODULAR DIRECT/DIBENEDETTO

3042 CUSTOM ADDITION
 REAR ELEVATION

BUILDING LOCATION:
 12 FREEDOM ROAD
 WHITE PLAINS, NY 10603
 WESTCHESTER COUNTY

SEISMIC DESIGN CATEGORY: B

SNOW ZONE: 30 PSF
 WIND ZONE: 115 MPH VULT
 WIND LOAD: 21 PSF
 SCALE: 3/16"= 1'-0"
 LAYER: REAR
 FILE NO: A17552(97)

STAGE	DATE	DRAWN BY
PRELIM	10/26/21	KND
FINAL	12/3/21	MS
REV. FINAL	1/17/22	MS
PURCHASING	2/28/22	KND
APPROVAL	3/22/22	KD
-	-	-
-	-	-
-	-	-

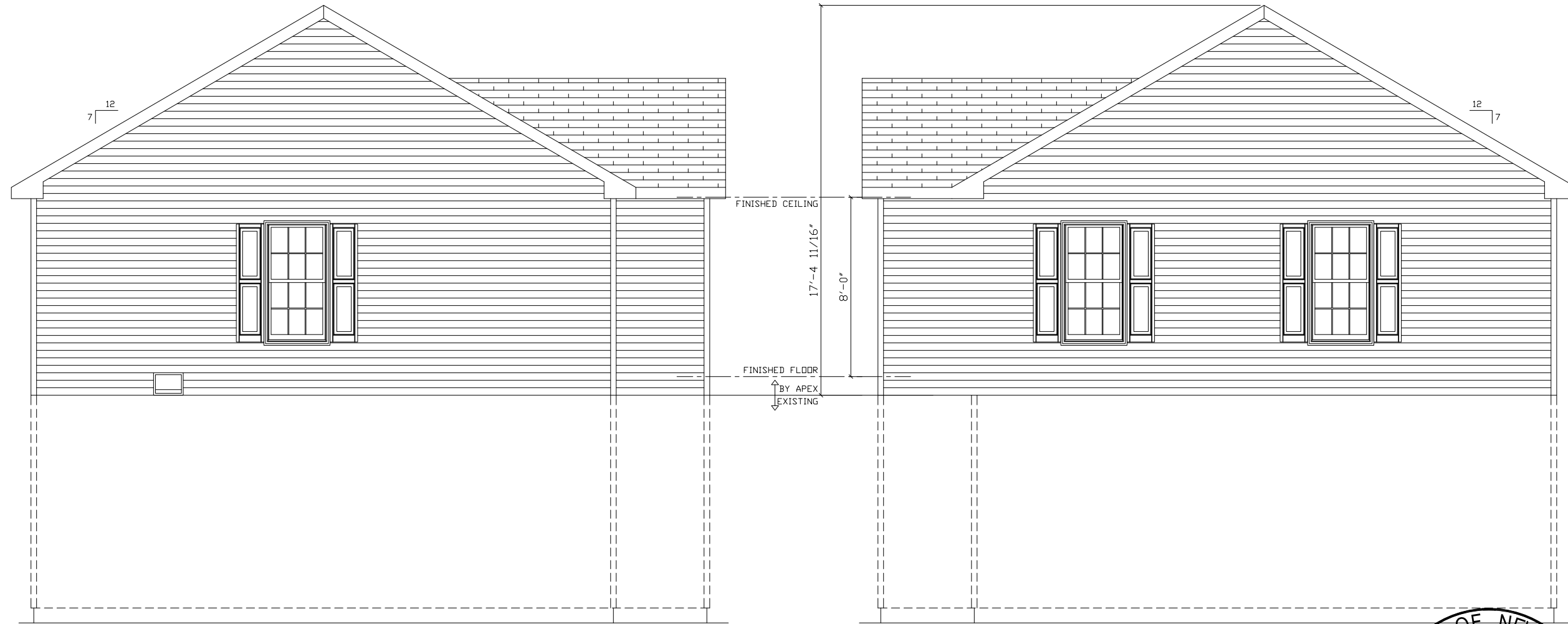
THE PEAK OF PERFECTION
APEX
 HOMES of PA, LLC.
 7172 ROUTE 522
 MIDDLEBURG, PA 17842
 PHONE: (570) 837-2333



A1.2

THESE PLANS HAVE BEEN EXTRACTED FROM APPROVED BUILDING SYSTEMS FILED WITH THE STATE.

SN-11909/QN-17552/JN-72236/NY

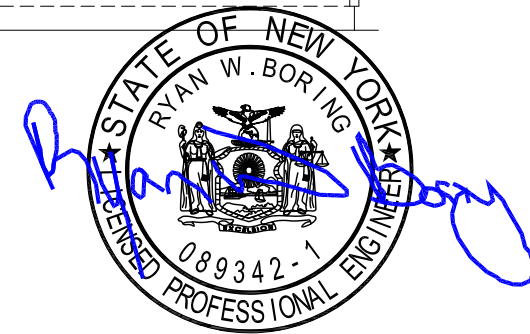


*TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT

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NOTE: ACTUAL HOUSE MAY VARY FROM ELEVATION



Mar 22, 2022

CUSTOM MODULAR DIRECT/DIBENEDETTO

3042 CUSTOM ADDITION
SIDE ELEVATION

SEISMIC DESIGN CATEGORY: B

BUILDING LOCATION:
12 FREEDOM ROAD
WHITE PLAINS, NY 10603
WESTCHESTER COUNTY

SNOW ZONE: 30 PSF
WIND ZONE: 115 MPH VULT

WIND LOAD: 21 PSF

SCALE: 3/16"= 1'-0"
LAYER: LEFT

FILE NO: A17552(97)

STAGE	DATE	DRAWN BY
PRELIM	10/26/21	KND
FINAL	12/3/21	MS
REV. FINAL	1/17/22	MS
PURCHASING	2/28/22	KND
APPROVAL	3/22/22	KD
-	-	-
-	-	-
-	-	-

THE PEAK OF PERFECTION
APEX HOMES of PA, LLC.
7172 ROUTE 522
MIDDLEBURG, PA 17842
PHONE: (570) 837-2333



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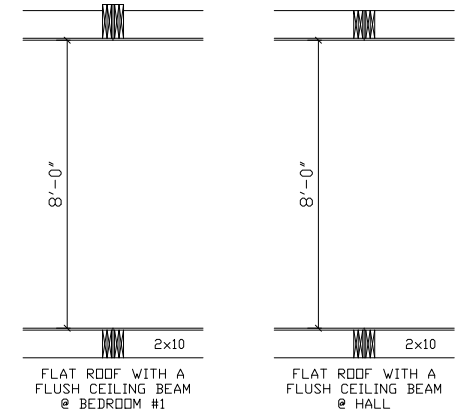
THESE PLANS HAVE BEEN EXTRACTED FROM APPROVED BUILDING SYSTEMS FILED WITH THE STATE.

NEW YORK CODES
 2020 NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE (WHICH INCORPORATES BY REFERENCE):
 2020 RESIDENTIAL CODE OF NYS
 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NYS
 2017 NATIONAL ELECTRICAL CODE

IMPORTANT NOTE:
 81 1/4" JAMBS SITTING ON SUB FLOOR, BASE MOULDING TACKING IN ALL OMIT FLOORING AREAS FOR BUILDERS ON-SITE FLOORING

GLENCO SYSTEM CALC'S:
 ALL EXT. LOAD BEARING HDR'S WITH SPAN OF 6'-3" OR LESS WILL BE (3) 2x6 SPF #2 ALL OTHERS WILL BE SPECIFIED. ALL REQUIRED JACK STUDS SHOWN ARE 2x6 SPF #2.

ALL M/W HDR'S WITH SPAN OF 8'-0" OR LESS WILL BE (4) 2x6 SPF #2 ALL OTHERS WILL BE SPECIFIED.



NOTE: THIS IS AN ADDITION TO A SINGLE FAMILY HOME, NOT FOR ANY OTHER USE. ANY OTHER USE WILL VOID THE PERMIT SET

NOTE:
 CUT BACK FLOOR SHEATHING 2" EACH SIDE OF MARRIAGE WALL OPENINGS

3'-0" MAIN ENTRY DOOR THRU EXISTING HOUSE

ALL PLUMBING WATER SUPPLY, DRAIN, WASTE, AND VENT WILL BE FROM INDEPENDENT SOURCE SEPARATE FROM THE EXISTING HOUSE.

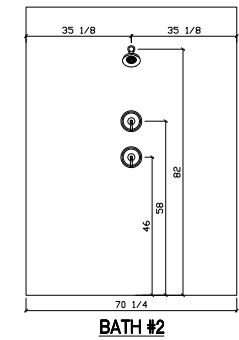
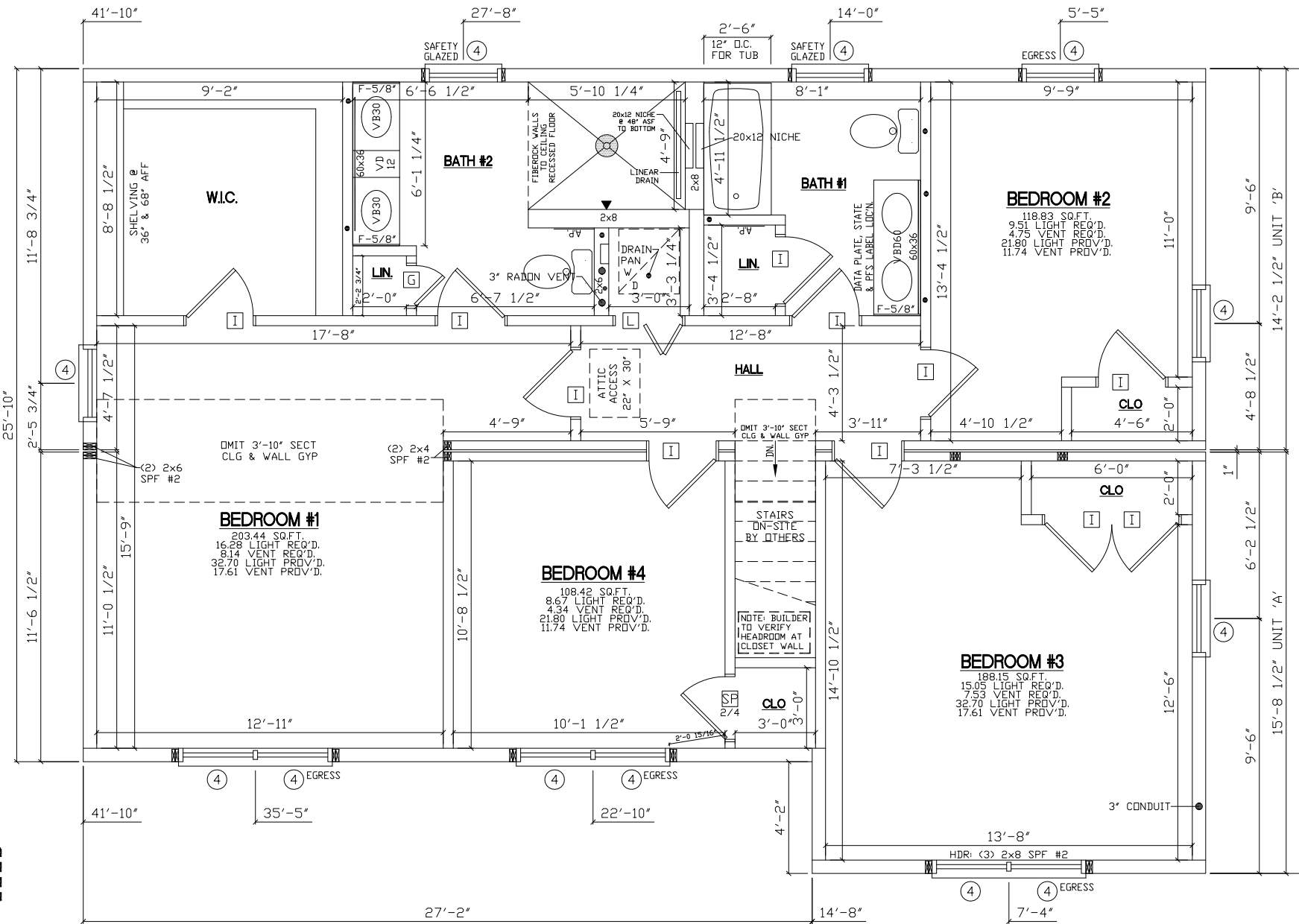
ALL SMOKE DETECTORS NEED TO BE INTERCONNECTED WITH EXISTING HOUSE.

ALL ELECTRICAL, PLUMBING, MECHANICAL, AND STRUCTURAL INTERCONNECTIONS SHALL BE DONE ON-SITE BY QUALIFIED PERSONNEL AND SHALL BE SITE INSPECTED BY THE LOCAL OFFICIAL.

PANEL BOX SIZE AND HEATING UNIT SIZE SHALL BE VERIFIED BY QUALIFIED PERSONNEL TO ASSURE THAT THE EXISTING DWELLING AND THE ADDITION ARE PROPERLY SERVED.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT

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SHIPLOOSE SIDING=40 SQ
 SIDING=16 SQ
 SHINGLES=17 1/3 SQ

NOTES:

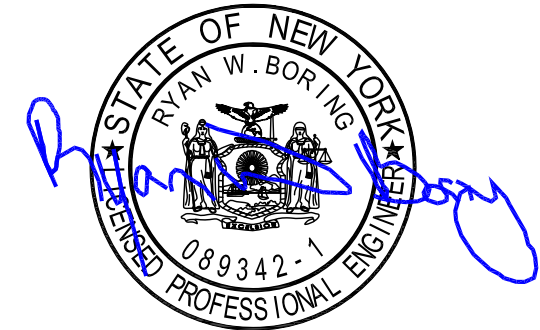
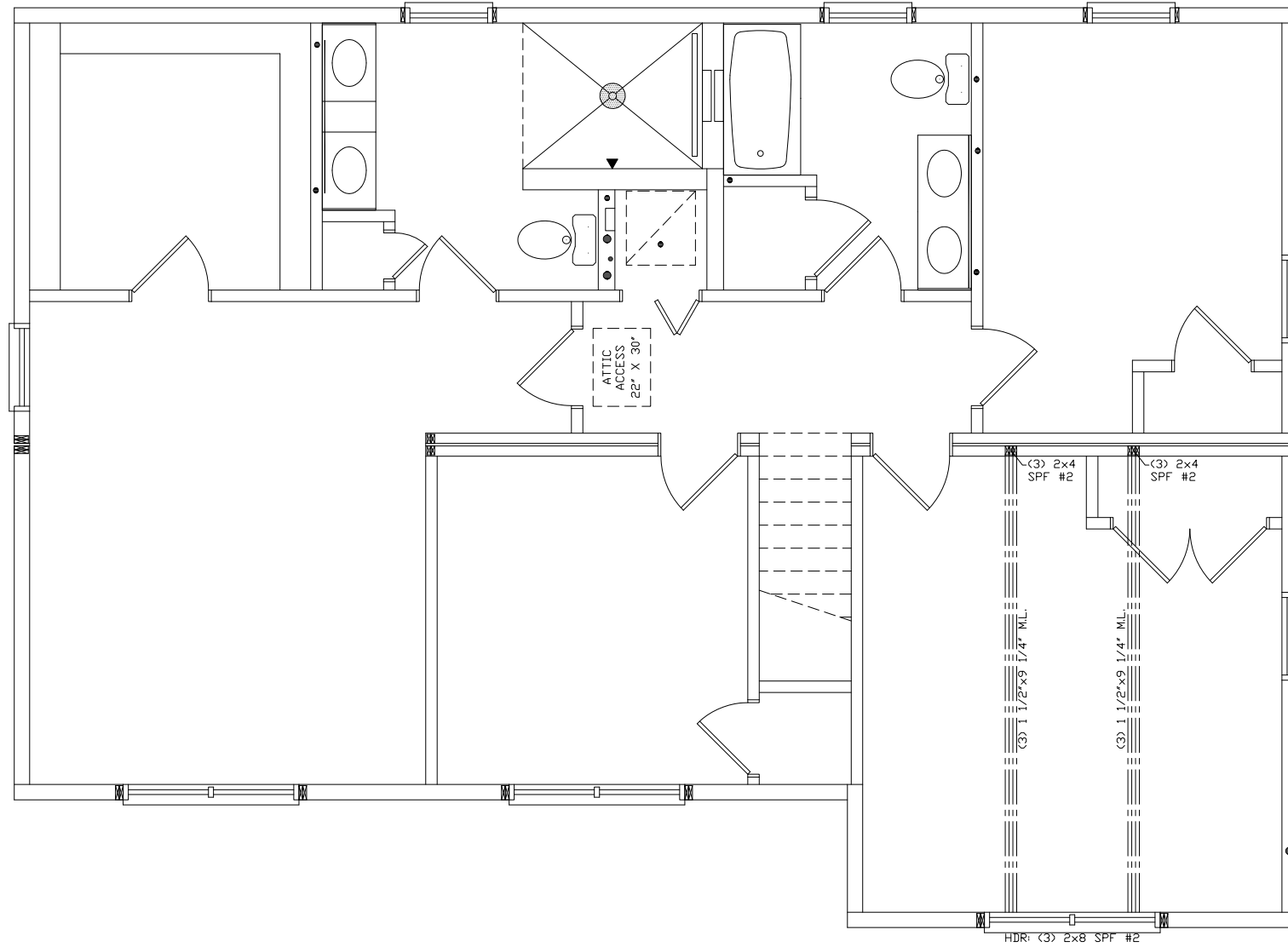
- MW CLASSIC WINDOWS BY PLYGEM
- 1ST FLOOR SQUARE FOOTAGE = 1142 SQ/FT

- 8'-0" 1ST FLOOR CEILING HEIGHT
- 7/12 NON STORAGE RAFTER ROOF SYSTEM @ 16" D.C.
- CLG BEAM @ BEDROOM #1 TO BE (4) 2x12 SPF #2 (2 PER UNIT)
- CLG BEAM @ HALL TO BE (2) 2x10 SPF #2 (1 PER UNIT)
-

CUSTOM MODULAR DIRECT/DIBENEDETTO		3042 CUSTOM ADDITION 1ST STORY FLOOR PLAN		FILE NO: A17552(97)
SEISMIC DESIGN CATEGORY: B		BUILDING LOCATION: 12 FREEDOM ROAD WHITE PLAINS, NY 10603 WESTCHESTER COUNTY		LAYER: SH1 / FP1
WIND LOAD: 21 PSF		WIND ZONE: 115 MPH VULT		SCALE: 3/16" = 1'-0"
SNOW ZONE: 30 PSF		WIND ZONE: 115 MPH VULT		
STAGE	DATE	DRAWN BY		
PRELIM	10/26/21	KND		
FINAL	12/3/21	MS		
REV. FINAL	1/17/22	MS		
PURCHASING	2/28/22	KND		
APPROVAL	3/22/22	KD		
THE PEAK OF PERFECTION APEX HOMES of PA, LLC. 7172 ROUTE 522 MIDDLEBURG, PA 17842 PHONE: (570) 837-2333				
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SN-11909/QN-17552/JN-72236/NY



Mar 22, 2022

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CUSTOM MODULAR DIRECT/DIBENEDETTO

3042 CUSTOM ADDITION

SEISMIC DESIGN CATEGORY: B

BUILDING LOCATION:
12 FREEDOM ROAD
WHITE PLAINS, NY 10603
WESTCHESTER COUNTY

FILE NO:
A17552(97)

LAYER:
SH1

SCALE:
3/16" = 1'-0"

WIND LOAD:
21 PSF

WIND ZONE:
115 MPH VULT

SNOW ZONE:
30 PSF

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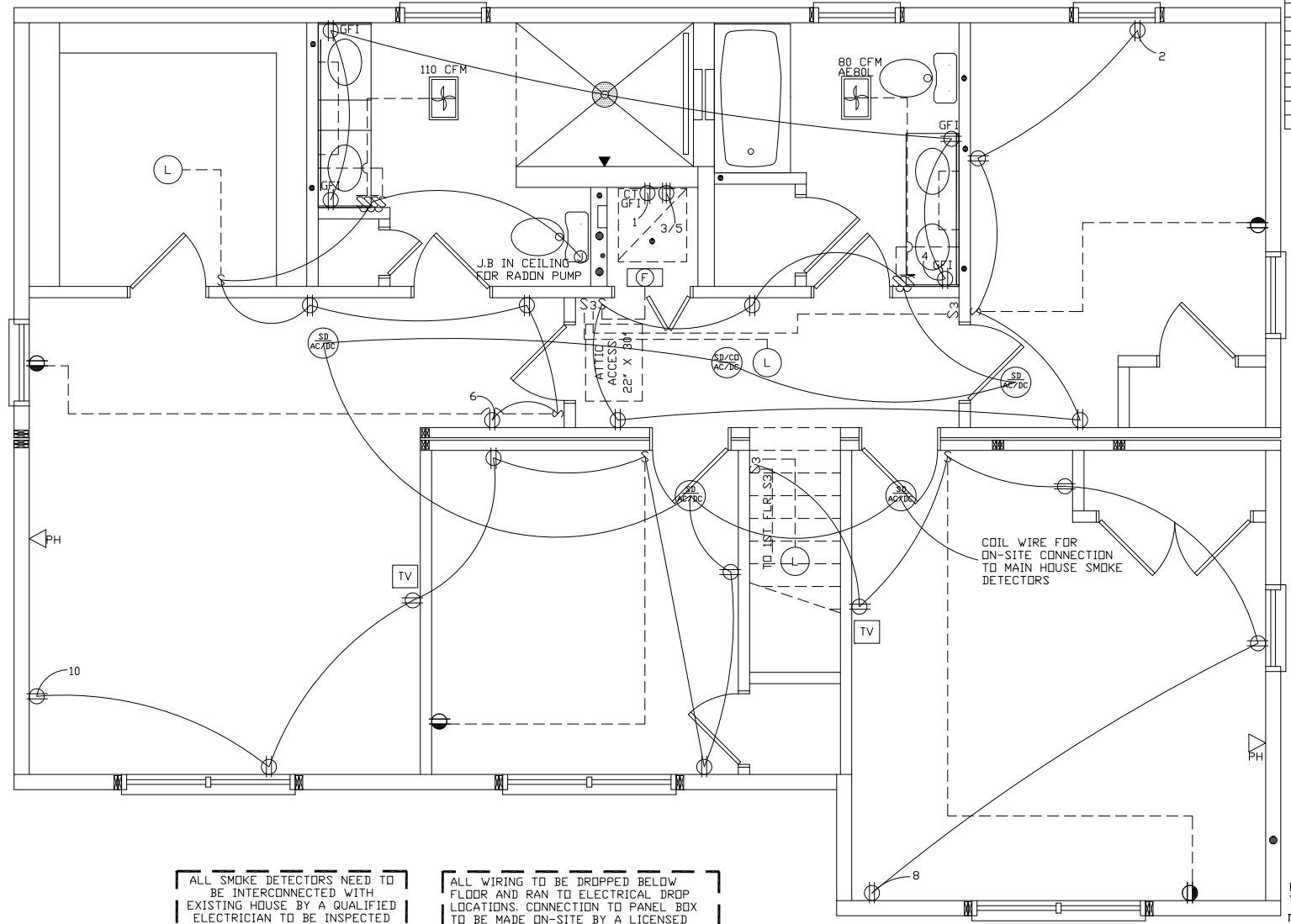
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		PANEL BOX									
	CRT	BRK	VOLT	WIRE	TYPE	TYPE	WIRE	VOLT	BRK	CRT	
WASHER	1	20A	120	12-2	AFCI	AFCI	14-2	120	15A	2	GENERAL LIGHTING
DRYER	3	30A	240	10-3		AFCI	12-2	120	20A	4	BATH GFI
	5					AFCI	14-2	120	15A	6	GENERAL LIGHTING
	7					AFCI	14-2	120	15A	8	GENERAL LIGHTING
	9					AFCI	14-2	120	15A	10	GENERAL LIGHTING
	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	
	41									42	

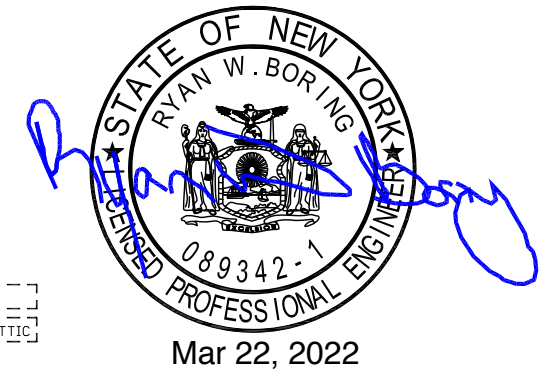
ALL SMOKE DETECTORS NEED TO BE INTERCONNECTED WITH EXISTING HOUSE BY A QUALIFIED ELECTRICIAN TO BE INSPECTED AND APPROVED BY THE LOCAL BUILDING OFFICIAL.

ALL WIRING TO BE DROPPED BELOW FLOOR AND RAN TO ELECTRICAL DROP LOCATIONS. CONNECTION TO PANEL BOX TO BE MADE ON-SITE BY A LICENSED ELECTRICIAN AND TO BE APPROVED BY A LOCAL BUILDING INSPECTOR.

ELEC DROPS W/ 30' COILS

ELEC DROPS W/ 16' COILS

DROP ALL WIRES JB OR AMP IN ATTIC



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NOTES:

- ALL LIVING SPACES ARE ARC-FAULT PROTECTED COMBINATION TYPE
- SEE 2017 NEC NOTE
-
-

CUSTOM MODULAR DIRECT/DIBENEDETTO

3042 CUSTOM ADDITION
1ST STORY ELECT PLAN

SEISMIC DESIGN CATEGORY: B

BUILDING LOCATION:
12 FREEDOM ROAD
WHITE PLAINS, NY 10603
WESTCHESTER COUNTY

SNOW ZONE: 30 PSF
WIND ZONE: 115 MPH VULT
WIND LOAD: 21 PSF

SCALE: 3/16"= 1'-0"
LAYER: SH1 /EL1
FILE NO: A17552(97)

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FINAL	12/3/21	MS
REV. FINAL	1/17/22	MS
PURCHASING	2/28/22	KND
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		-
		-
		-

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GENERAL NOTES

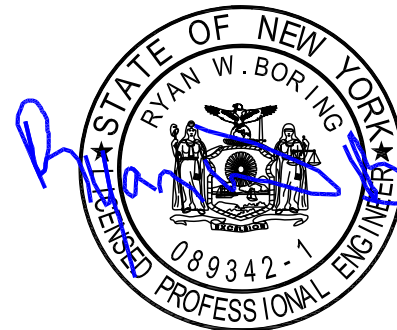
- GASKET OR WEATHERSTRIPPING AND INSULATION, EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES, IS TO BE INSTALLED UPON COMPLETION OF THE SET-UP OF THE HOME AT CEILING ACCESS PANELS AND / OR PULL DOWN STAIRS ON SITE BY OTHERS.
- DRYER VENT DUCT SHALL TERMINATE ON AN OUTSIDE WALL OF A BUILDING NOT LESS THAN 3'-0" IN ANY DIRECTION FROM ANY OPENING INTO THE BUILDING AND MUST BE EQUIPPED WITH A BACKDRAFT DAMPER.
- TUB / SHOWER CONTROL VALVES TO HAVE A HIGH STOP LIMIT SET TO LIMIT WATER TEMPERATURE TO A MAXIMUM OF 120° F (49°C).
- THE BASEMENT AND / OR ATTIC DOOR MUST HAVE WEATHERSTRIPPING AND A SWEEP PROVIDED AND INSTALLED ON-SITE BY OTHERS.
- ADD BLOCKING IN WALLS ON ALL ENDS OF CABINET RUNS FOR BASE, WALL, TALL AND VANITY CABINETS TO PULL SIDE OF CABINETS TIGHT TO THE WALL.

2020 RESIDENTIAL CODE OF NY NOTES

- WINDOW EGRESS REQUIREMENTS MEET 2020 RESIDENTIAL CODE OF NY STATE, SECTION R310.1
- VISUAL INSPECTION OF THE INSULATION INSTALLATION WILL BE DOCUMENTED BY THE APEX QC DEPARTMENT.
- BUILDER TO INSTALL A FRESH AIR INTAKE FROM THE ON-SITE FORCED AIR SYSTEM TO MEET THE REQUIREMENTS OF M1505.4.3(1).
- HOT WATER PIPE INSULATION SHALL BE INSTALLED IN ACCORDANCE W/ SECT. N1103.4.2 OF THE 2020 RESIDENTIAL CODE OF NY STATE
- EXTERIOR WALL FIRE RATING AND REQUIRED FIRE SEPARATION DISTANCES MEET THE REQUIREMENTS PER THE 2020 RESIDENTIAL CODE OF NY STATE TABLE 302.1(1) & (2)
- BUILDER TO PROVIDE AND INSTALL HIGH-EFFICACY LAMPS IN 90% OF PERMANENTLY INSTALLED LIGHTING FIXTURES ON-SITE PER SECTION N1104.1.
- ALL WINDOWS WITH OPENINGS WHICH OPEN 4 INCHES OR GREATER, ARE 72 INCHES ABOVE THE FINISHED GRADE OR SURFACE BELOW AND THE LOWEST PART OF THE CLEAR OPENING IS LESS THAN 24 INCHES ABOVE THE FINISHED FLOOR, WILL REQUIRE WINDOW GUARDS PER 2020 RESIDENTIAL CODE OF NY STATE SECTIONS R312.2. THE WINDOW GUARDS WILL BE PROVIDED AND INSTALLED ON-SITE BY OTHERS.

ELECTRICAL NOTES

- * 2017 NEC NOTES :
- ALL LIGHT BOXES MUST BE RATED TO SUPPORT 50# FOR NON-PADDLE FANS AND 70# FOR PADDLE FAN BOXES.
 - TAMPER RESISTANT (T.R.) RECEPTACLES REQUIRED THRU-OUT THE ENTIRE HOME, UNLESS NOTED OTHERWISE ON THE PLAN.
 - ALL BALCONIES, DECKS AND PORCHES ACCESSIBLE FROM INSIDE THE DWELLING UNIT ARE REQUIRED TO HAVE ONE WATERPROOF (W.P.) T.R. GFI RECEPTACLE WITHIN THE PERIMETER OF THE BALCONY, DECK OR PORCH.
 - 1 & 2 FAMILY DWELLINGS ARE REQUIRED TO BE PROVIDED WITH ONE W.P. T.R. GFI RECEPTACLE ACCESSIBLE WHILE STANDING AT GRADE LEVEL LOCATED A MAX. OF 6'-6" ABOVE GRADE AT THE FRONT AND REAR OF EACH DWELLING UNIT.
 - THE GROUNDING CIRCUIT CONDUCTOR FOR THE CONTROLLED LIGHTING CIRCUIT SHALL BE PROVIDED AT THE LOCATION WHERE SWITCHES CONTROLLING LIGHTING LOADS THAT ARE SUPPLIED BY A GROUNDED GENERAL PURPOSE BRANCH CIRCUIT FOR OTHER THAN THE FOLLOWING:
 - WHERE CONDUCTORS ENTER THE BOX ENCLOSING THE SWITCH THROUGH A RACEWAY, PROVIDED THAT THE RACEWAY IS LARGE ENOUGH FOR ALL CONDUCTORS, INCLUDING A GROUNDED CONDUCTOR.
 - WHERE THE BOX ENCLOSING THE SWITCH IS ACCESSIBLE FOR THE INSTALLATION OF AN ADDITIONAL OR REPLACEMENT CABLE WITHOUT REMOVING FINISH MATERIALS
 - WHERE SNAP SWITCHES WITH INTEGRAL ENCLOSURES COMPLY WITH 300.15 (E)
 - WHERE A SWITCH DOES NOT SERVE A HABITABLE ROOM OR BATHROOM
 - WHERE MULTIPLE SWITCH LOCATIONS CONTROL THE SAME LIGHTING LOAD SUCH THAT THE ENTIRE FLOOR AREA OF THE ROOM OR SPACE IS VISIBLE FROM THE SINGLE OR COMBINED SWITCH LOCATIONS
 - WHERE LIGHTING IN THE AREA IS CONTROLLED BY AUTOMATIC MEANS
 - WHERE A SWITCH CONTROLS A RECEPTACLE LOADS
 - ALL 15 AND 20 AMPERE 125 AND 250 VOLT RECEPTACLES INSTALLED IN A WET LOCATION STILL MUST HAVE AN ENCLOSURE AND COVERS THAT ARE WEATHERPROOF WHETHER AN ATTACHMENT PLUG CAP IS INSERTED OR NOT. ALL ENCLOSURES AND COVERS INSTALLED IN WET LOCATIONS MUST BE LISTED AS "EXTRA DUTY"
 - A LUMINARIES WEIGHING MORE THAN 50 LBS. SHALL BE SUPPORTED INDEPENDENTLY OF THE OUTLET BOX, UNLESS IT IS LISTED AND MARKED FOR THE MAXIMUM WEIGHT TO BE SUPPORTED.
 - ALL 120 VOLT, SINGLE-PHASE, 15 AND 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS BEDROOMS, SUN ROOMS RECREATION ROOMS CLOSETS, HALLWAYS, LAUNDRY AREA, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED COMBINATION-TYPE ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.
 - ALL BATHROOM RECEPTACLES, LAUNDRY RECEPTACLES, EXTERIOR RECEPTACLES AND ALL RECEPTACLES SERVING KITCHEN COUNTERTOPS, THE DISHWASHER CIRCUIT OR RECEPTACLES THAT ARE WITH IN 6'-0" OF THE OUTSIDE EDGE OF THE KITCHEN SINK INCLUDING RECEPTACLES UNDER THE SINK OR IN CABINETS ARE REQUIRED TO BE GFI PROTECTED.



Mar 22, 2022

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3042 CUSTOM ADDITION

SEISMIC DESIGN CATEGORY: B

BUILDING LOCATION:
 12 FREEDOM ROAD
 WHITE PLAINS, NY 10603
 WESTCHESTER COUNTY

FILE NO: A17552(97)

LAYER:

SCALE: 3/16"= 1'-0"

WIND LOAD: 21 PSF

WIND ZONE: 115 MPH VULT

SNOW ZONE: 30 PSF

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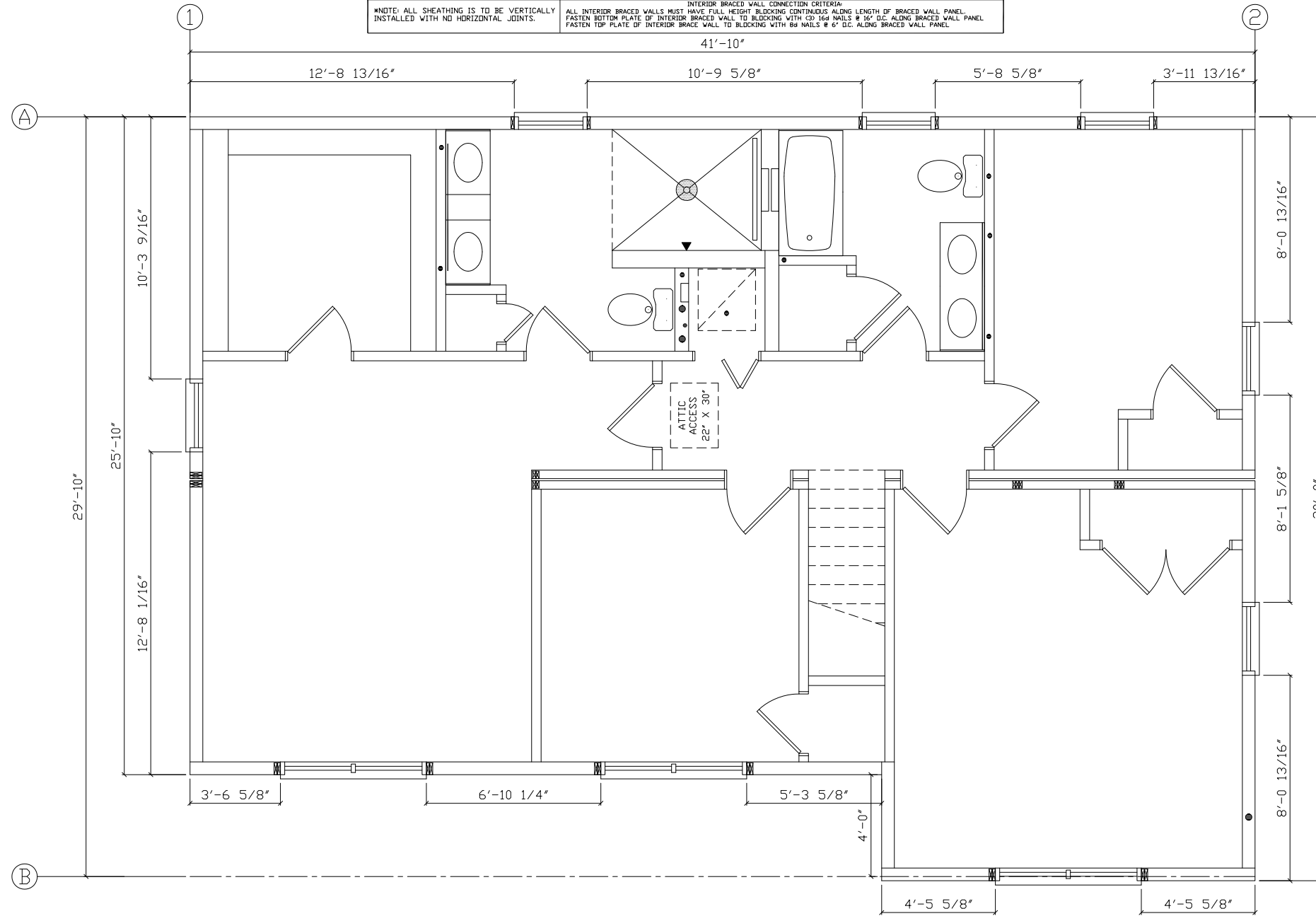
BRACED WALL REQUIREMENTS (1ST STORY OF A 1 STORY)										
PER 2000 RESIDENTIAL CODE OF NY STATE, TABLE R602.10.3										
CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL METHOD AND GYPSUM BOARD METHOD										
BRACE WALL LINE	WALL LENGTH	BRACED WALL SPACING	TABULATED MIN. BRACED WALL TOTAL	EXPOSURE FACTOR E	RIDGE TO EAVE HEIGHT FACTOR	WALL HEIGHT FACTOR	WALL LINE MIN. LENGTH REQUIRED W/ ADJUSTMENTS	TOTAL PROVIDED	METHOD	
BRACE WALL LINE - A	41'-10"	25'-10"	4.5	1.00	1.00	0.95	100	4.28	33'-8 7/8"	CS-WSP
BRACE WALL LINE - B	41'-10"	25'-10"	4.5	1.00	1.00	0.95	100	4.28	24'-7 3/4"	CS-WSP
BRACE WALL LINE - 1	25'-10"	41'-10"	6.5	1.00	1.00	0.95	100	6.18	22'-11 5/8"	CS-WSP
BRACE WALL LINE - 2	25'-10"	41'-10"	6.5	1.00	1.00	0.95	100	6.18	24'-3 1/4"	CS-WSP

CS-WSP DEFINITION: (1ST STORY OF A 1 STORY) WOOD STRUCTURAL PANEL SHEATHING WITH A THICKNESS NOT LESS THAN 3/8". PANELS MUST BE LONGER THAN 24", LOCATED AT EACH END AND AT LEAST EVERY 25'-0" O.C. CONNECTION CRITERIA: 6d COMMON (2" x 0.113" NAILS AT 6" SPACING (PANEL EDGES) AND AT 12" SPACING (INTERMEDIATE SUPPORTS) OR 16 ga x 1 3/4" STAPLES AT 3" SPACING (PANEL EDGES) AND 6" SPACING (INTERMEDIATE SUPPORTS).

GB DEFINITION: (1ST STORY OF A 1 STORY) GYPSUM BOARD WITH A THICKNESS NOT LESS THAN 1/2". PANELS MUST BE LONGER THAN 24", LOCATED AT EACH END AND AT LEAST EVERY 25'-0" O.C. CONNECTION CRITERIA: NAILS OR SCREWS AT 7" SPACING AT PANEL EDGES INCLUDING TOP AND BOTTOM PLATES; FOR ALL BRACED WALL PANEL LOCATIONS FOR EXTERIOR SHEATHING NAIL OR SCREW SIZE, SEE TABLE R602.3(3); FOR INTERIOR GYPSUM BOARD NAIL OR SCREW SIZE, SEE TABLE R702.3(5).

INTERIOR BRACED WALL CONNECTION CRITERIA: ALL INTERIOR BRACED WALLS MUST HAVE FULL HEIGHT BLOCKING CONTINUOUS ALONG LENGTH OF BRACED WALL PANEL. FASTEN BOTTOM PLATE OF INTERIOR BRACED WALL TO BLOCKING WITH C2 16d NAILS # 16" O.C. ALONG BRACED WALL PANEL. FASTEN TOP PLATE OF INTERIOR BRACED WALL TO BLOCKING WITH 8d NAILS # 6" O.C. ALONG BRACED WALL PANEL.

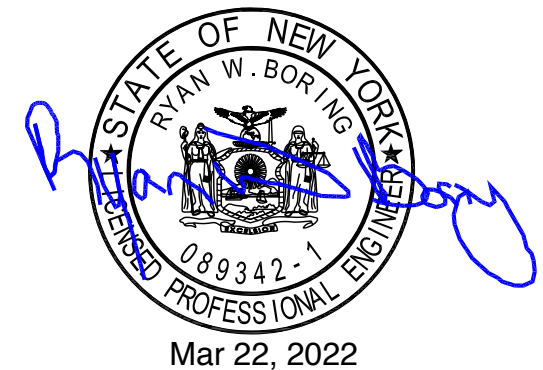
NOTE: ALL SHEATHING IS TO BE VERTICALLY INSTALLED WITH NO HORIZONTAL JOINTS.



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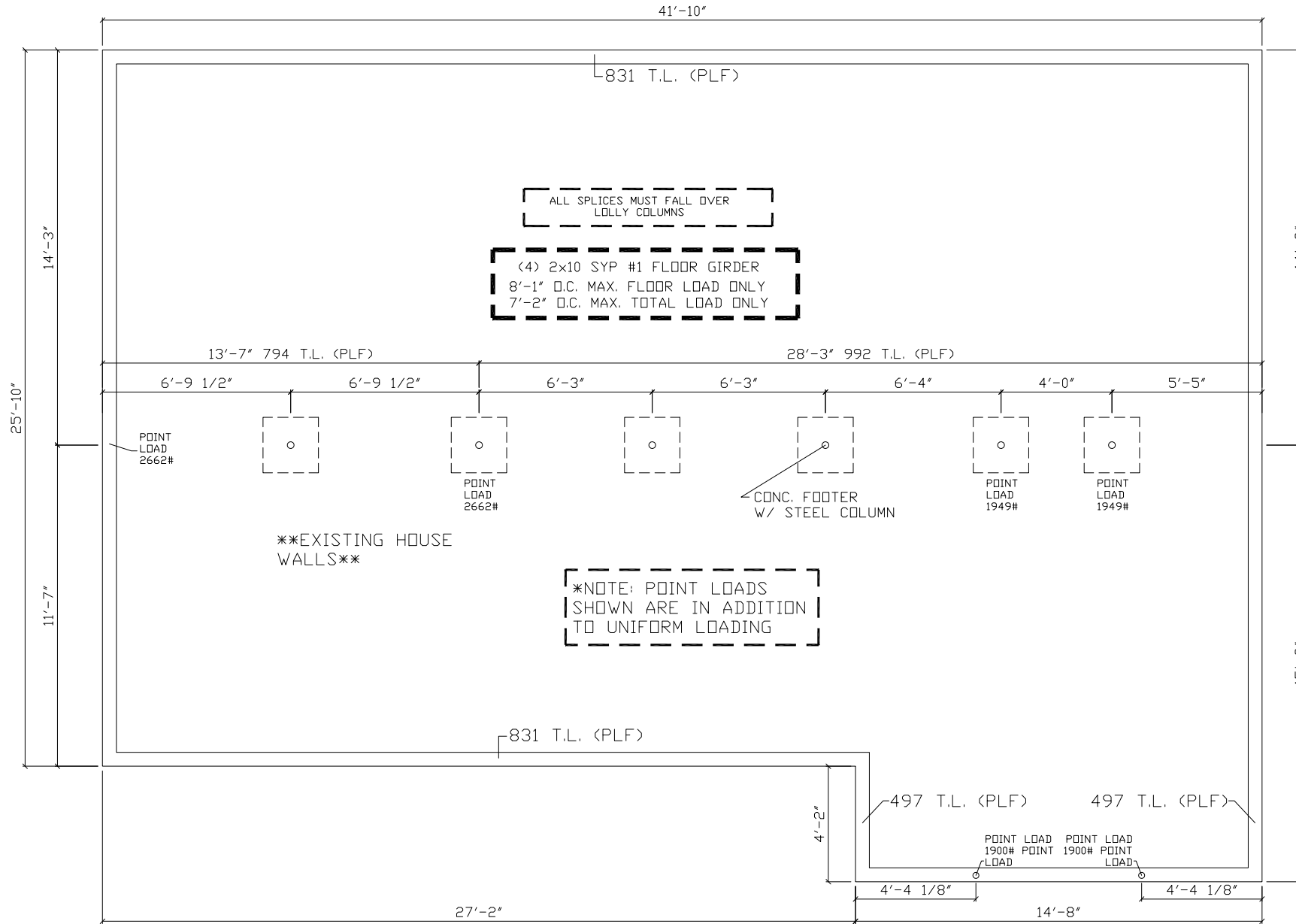


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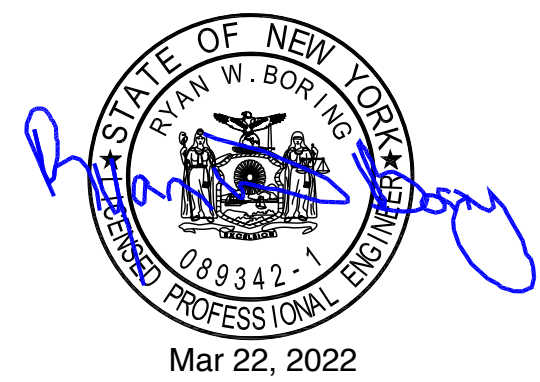
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 1. THIS FACTORY MANUFACTURED HOME (FMH) PLAN HAS BEEN DERIVED FROM A SYSTEM SET OF FMH PLANS PREVIOUSLY APPROVED BY DDS, APPLICATION NO. M168-2020-042, MANUFACTURER'S NO. M168, WHICH HAS NOT BEEN MODIFIED IN ANY MANNER.
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IT IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THE DRAWINGS IN ANY WAY TO CHANGE THE STRUCTURAL DESIGN OR INTENT. IF A DRAWING BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX HIS SEAL TO THE DRAWING WITH A NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

FOUNDATION DRAWINGS ARE TO BE USED AS A GUIDE ONLY. APEX HOMES WILL NOT ACCEPT ANY LIABILITY OR RESPONSIBILITY FOR INCORRECT FOUNDATIONS.



CUSTOM MODULAR DIRECT/DIBENEDETTO		SEISMIC DESIGN CATEGORY: B		FILE NO: A17552(97)
3042 CUSTOM ADDITION FOUNDATION PLAN		WIND LOAD: 21 PSF		LAYER: FOUNDATION
BUILDING LOCATION: 12 FREEDOM ROAD WHITE PLAINS, NY 10603 WESTCHESTER COUNTY		WIND ZONE: 115 MPH VULT		SCALE: 3/16" = 1'-0"
SNOW ZONE: 30 PSF		WIND ZONE: 115 MPH VULT		
STAGE	DATE	DRAWN BY		
PRELIM	10/26/21	KND		
FINAL	12/3/21	MS		
REV. FINAL	1/17/22	MS		
PURCHASING	2/28/22	KND		
APPROVAL	3/22/22	KD		

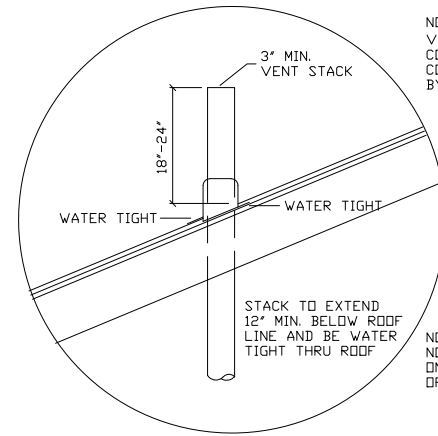
THE PEAK OF PERFECTION
APEX HOMES of PA, LLC.
 7172 ROUTE 529
 MIDDLEBURG, PA 17842
 PHONE: (570) 837-3883

- NOTES:
- FOR ADDITIONAL INFORMATION SEE TYPICAL FOUNDATION DRAWING A15,16 OF THIS SET
 - PERIMETER RAIL ATTACHED TO SILL WITH 16d NAILS AT 6" O.C.
 - PIER FOOTINGS BASED UPON 2000 PSF ALLOWABLE SOIL BEARING PRESSURE
 - CONCRETE COMPRESSIVE STRENGTH: 2500 PSI
 - M OR S TYPE MORTAR TO BE USED

- MAX ANCHOR BOLT SPACING: 6'-0" O.C. (4'-0" O.C. MAX IN AREAS WHERE WIND VELOCITY IS @ OR EXCEEDS 100 MPH)
- WINDOWS OR VENTS (INSTALLED BY OTHERS) ARE REQUIRED TO PROVIDE 1/150 OF FLOOR AREA AS FREE VENTILATION AND SHALL BE LOCATED AS CLOSE TO CORNERS AS POSSIBLE

THESE PLANS HAVE BEEN EXTRACTED FROM APPROVED BUILDING SYSTEMS FILED WITH THE STATE.

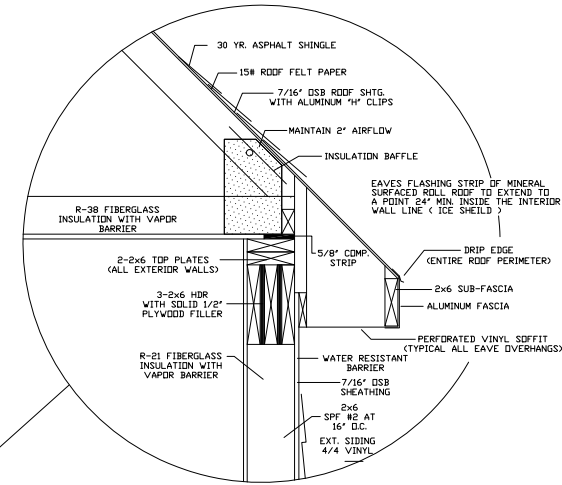
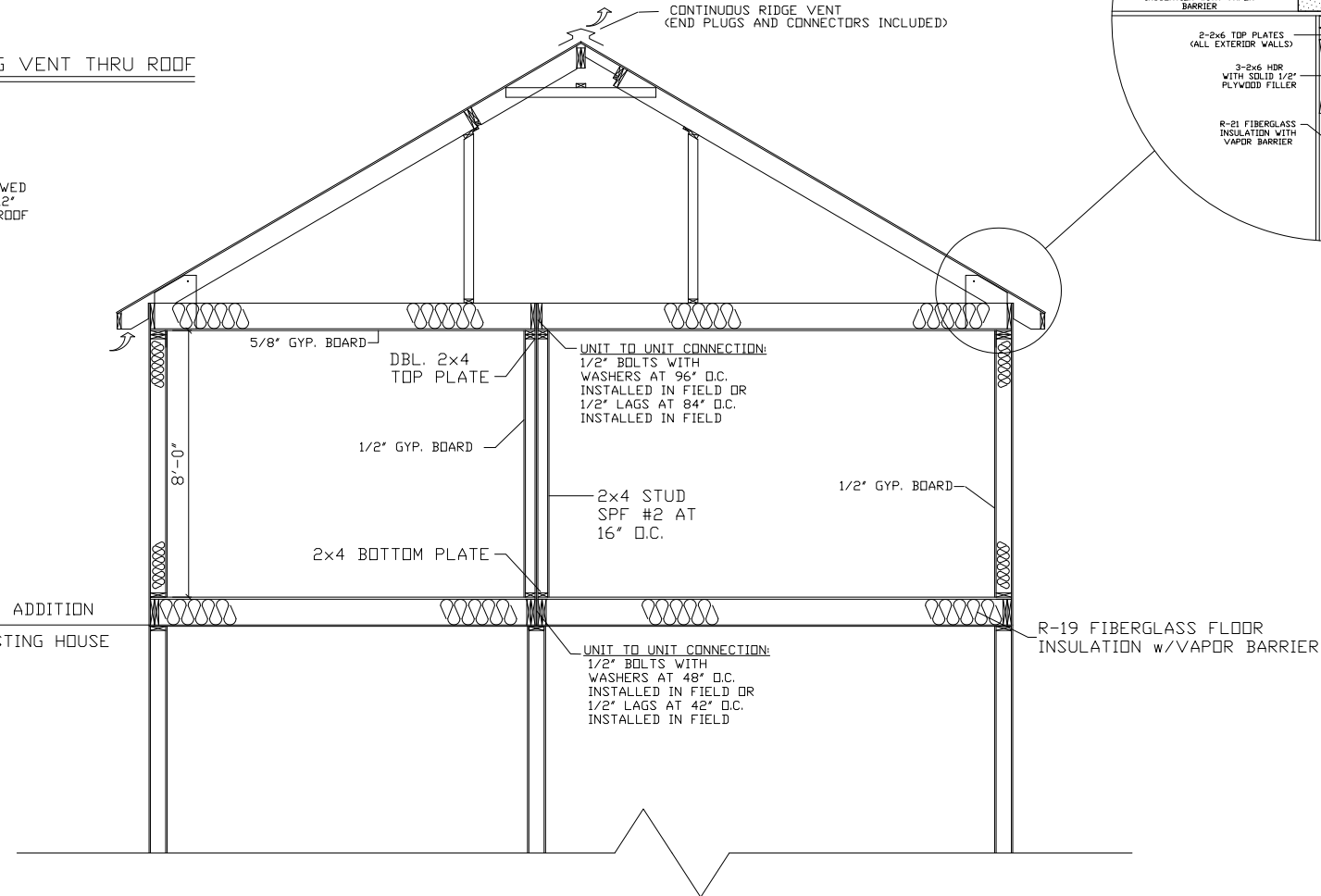
SN-11909/QN-17552/JN-72236/NY



NOTE:
VENT THRU ROOF CONNECTION TO BE COMPLETED IN FIELD BY BLDR/CONTRACTOR

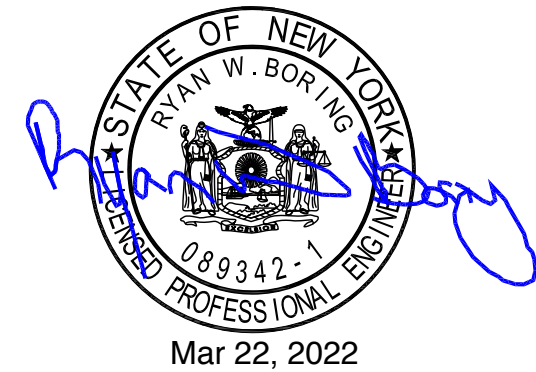
PLUMBING VENT THRU ROOF

NOTE:
NO REDUCERS ALLOWED ON STACK WITHIN 12" OF UNDERSIDE OF ROOF



*TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT
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CUSTOM MODULAR DIRECT/DIBENEDETTO		3042 CUSTOM ADDITION		FILE NO: A17552(97)
SEISMIC DESIGN CATEGORY: B		BUILDING LOCATION: 12 FREEDOM ROAD WHITE PLAINS, NY 10603 WESTCHESTER COUNTY		LAYER:
SNOW ZONE: 30 PSF		WIND ZONE: 115 MPH VULT		SCALE: 3/16"= 1'-0"
WIND LOAD: 21 PSF				

STAGE	DATE	DRAWN BY
PRELIM	10/26/21	KND
FINAL	12/3/21	MS
REV. FINAL	1/17/22	MS
PURCHASING	2/28/22	KND
APPROVAL	3/22/22	KD
-	-	-
-	-	-
-	-	-

THE PEAK OF PERFECTION
APEX HOMES of PA, LLC.
 7172 ROUTE 522
 MIDDLEBURG, PA 17842
 PHONE: (570) 837-2333



A1.9

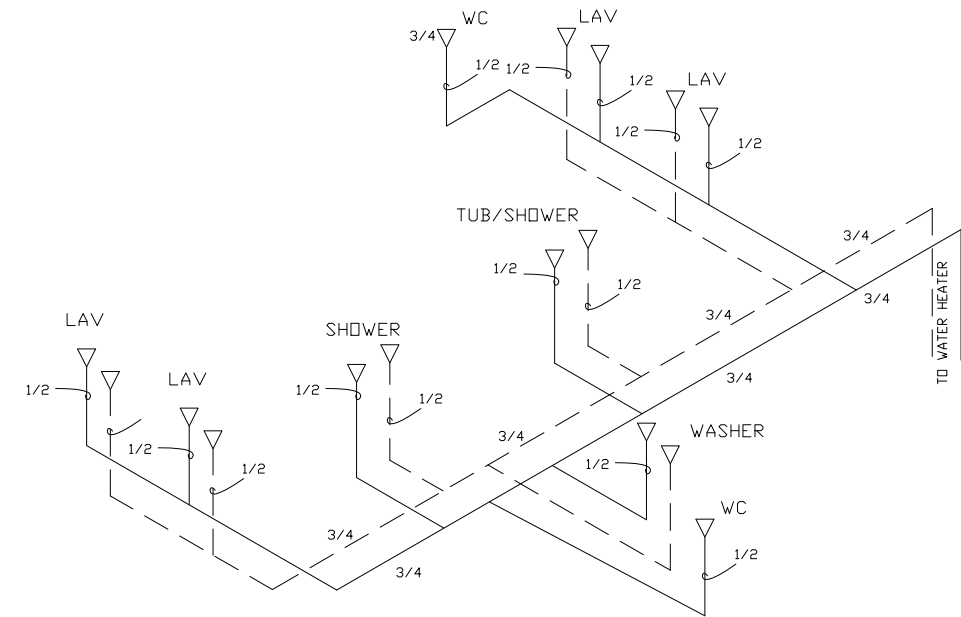
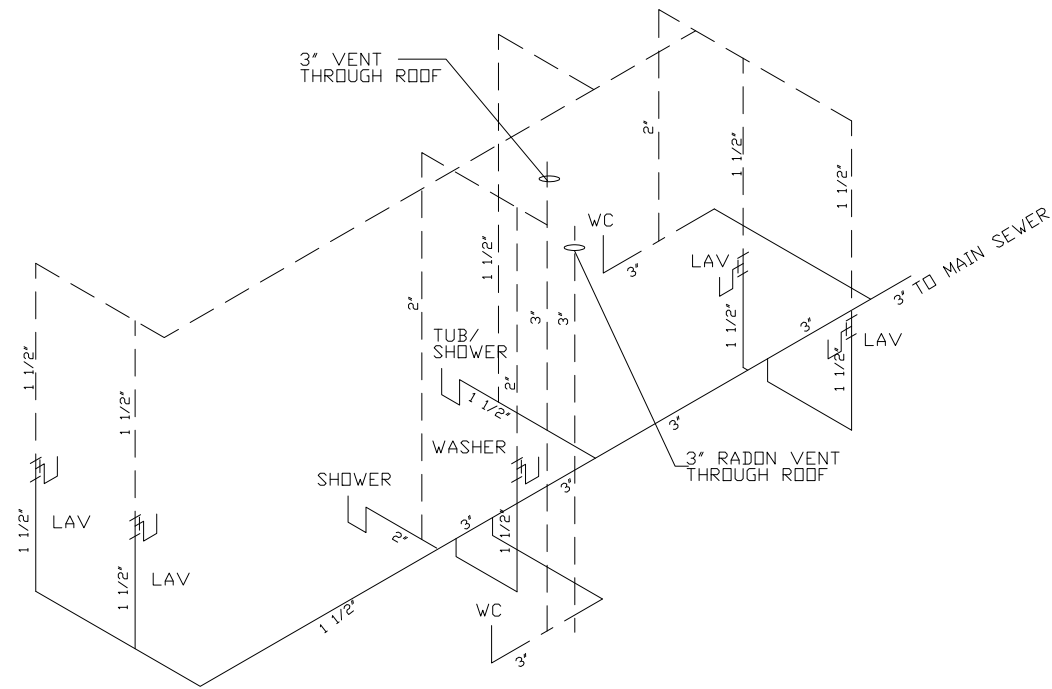
THESE PLANS HAVE BEEN EXTRACTED FROM APPROVED BUILDING SYSTEMS FILED WITH THE STATE.

1. PIPING SUPPORT: DWV 4'-0" D.C. VER. / 3'-0" D.C. HOR.
2. TEMPERATURE LIMITING DEVICE TO BE INSTALLED ON ALL LAVATORIES, TUBS AND SHOWERS.
3. EACH FIXTURE SUPPLY RISER FITTED WITH SHUTOFF VALVE.
4. WATER LINE SIZED BASED ON 30 PSI AND 80' MAX DEVELOPED LENGTH.
5. USE REMOVABLE TRAPS UNDER ALL SINKS TO SERVE AS CLEANOUTS.
6. ALL SUPPLY AND DRAIN LINES BELOW THE FLOOR ARE SUPPLIED AND INSTALLED ON SITE BY OTHERS.
8. WATER HEATER PROVIDED AND INSTALLED ON-SITE BY OTHERS. WATER HEATER DISCHARGE SHALL BE IN A NON-HAZARDOUS LOCATION.

ALL DWV & SUPPLY LINES BELOW THE FLOOR SHOWN ARE TO BE SIZED BY THE ON-SITE CONTRACTOR & APPROVED BY THE LOCAL BUILDING INSPECTOR.

INDICATES DRAIN
 INDICATES VENT
 INDICATES DWV PLUMBING ON-SITE BY OTHERS

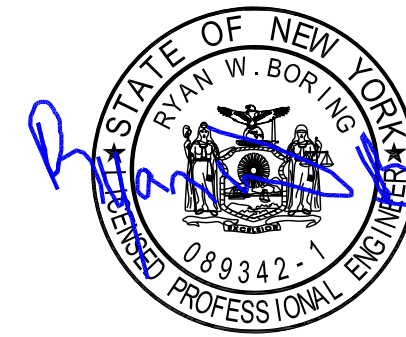
COLD WATER SUPPLY
 HOT WATER SUPPLY



TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT

1. THIS FACTORY MANUFACTURED HOME (FMH) PLAN HAS BEEN DERIVED FROM A SYSTEM SET OF FMH PLANS PREVIOUSLY APPROVED BY DDS, APPLICATION NO. M1168-2020-042, MANUFACTURER'S NO. M116B, WHICH HAS NOT BEEN MODIFIED IN ANY MANNER.
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Mar 22, 2022

CUSTOM MODULAR DIRECT/DIBENEDETTO

3042 CUSTOM ADDITION

SEISMIC DESIGN CATEGORY: B

BUILDING LOCATION: 12 FREEDOM ROAD WHITE PLAINS, NY 10603 WESTCHESTER COUNTY

SNOW ZONE: 30 PSF

WIND ZONE: 115 MPH VULT

WIND LOAD: 21 PSF

SCALE: 3/16"= 1'-0"

LAYER:

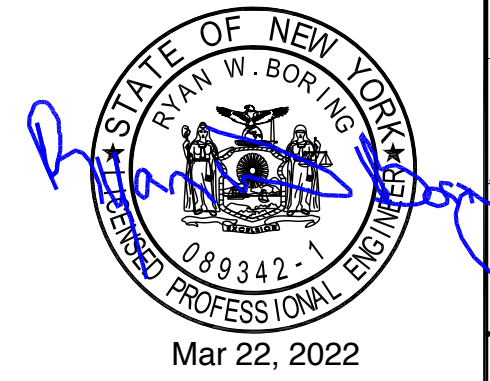
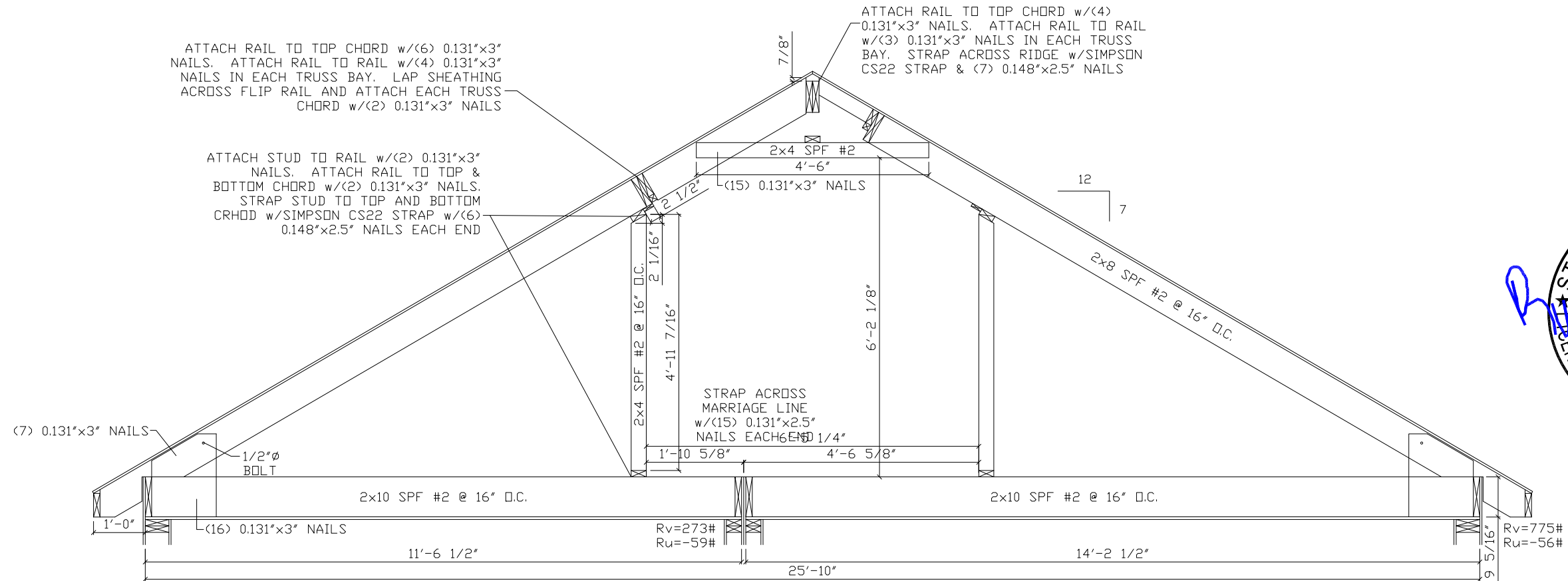
FILE NO: A17552(97)

STAGE	DATE	DRAWN BY
PRELIM	10/26/21	KND
FINAL	12/3/21	MS
REV. FINAL	1/17/22	MS
PURCHASING	2/28/22	KND
APPROVAL	3/22/22	KD

THE PEAK OF PERFECTION
APEX HOMES of PA, LLC.
 7172 ROUTE 522
 MIDDLEBURG, PA 17842
 PHONE: (570) 837-2333



A1.10



CUSTOM MODULAR DIRECT/DIBENEDETTO		SEISMIC DESIGN CATEGORY: B	WIND LOAD: 21 PSF	FILE NO: A17552RAF
BUILDING LOCATION: 12 FREEDOM ROAD WHITE PLAINS, NY 10603 WESTCHESTER COUNTY		WIND ZONE: 115 MPH VULT	SNOW ZONE: 30 PSF	LAYER: SH1/FP1
3042 CUSTOM ADDITION		27'-4" WIDE 7/12	SCALE: 3/32"= 1'-0"	

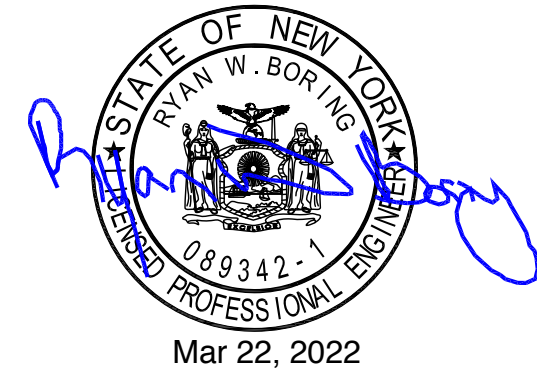
STAGE	DATE	DRAWN BY
FINAL	10/26/21	KND
REV. FINAL	12/3/21	MS
PURCHASING	1/17/22	MS
APPROVAL	2/28/22	KND
	3/22/22	KD

THE PEAK OF PERFECTION

APEX HOMES OF PA, LLC.

7178 ROUTE 522
MIDDLEBURG, PA 17042
PHONE: (570) 887-2333

NOTES:
 -CONTINUOUS BRACING TO BE 2x3 (MINIMUM) OF ANY SPECIES/GRADE
 -FASTEN BRACING TO EACH INTERSECTING FRAMING MEMBER w/ (2) 0.131"x3" NAILS
 -BRACING MAY BE SUBSTITUTED WITH FULL-HEIGHT BLOCKING BETWEEN FRAMING MEMBERS OR CONTINUOUS SHEATHING
 -UPLIFT CALCULATIONS ARE BASED ON ALLOWABLE WIND SPEEDS. EQUIVALENT ULTIMATE WIND SPEEDS ARE 129 MPH AND 154 MPH FOR 100 MPH AND 120 MPH ALLOWABLE WIND SPEEDS, RESPECTIVELY



CUSTOM MODULAR DIRECT/DIBENEDETTO

SEISMIC DESIGN CATEGORY: B

3042 CUSTOM ADDITION

BUILDING LOCATION:
12 FREEDOM ROAD
WHITE PLAINS, NY 10603
WESTCHESTER COUNTY

WIND LOAD: 21 PSF

WIND ZONE: 115 MPH VULT

SNOW ZONE: 30 PSF

SCALE: 3/32" = 1'-0"

LAYER: SH2/FP2

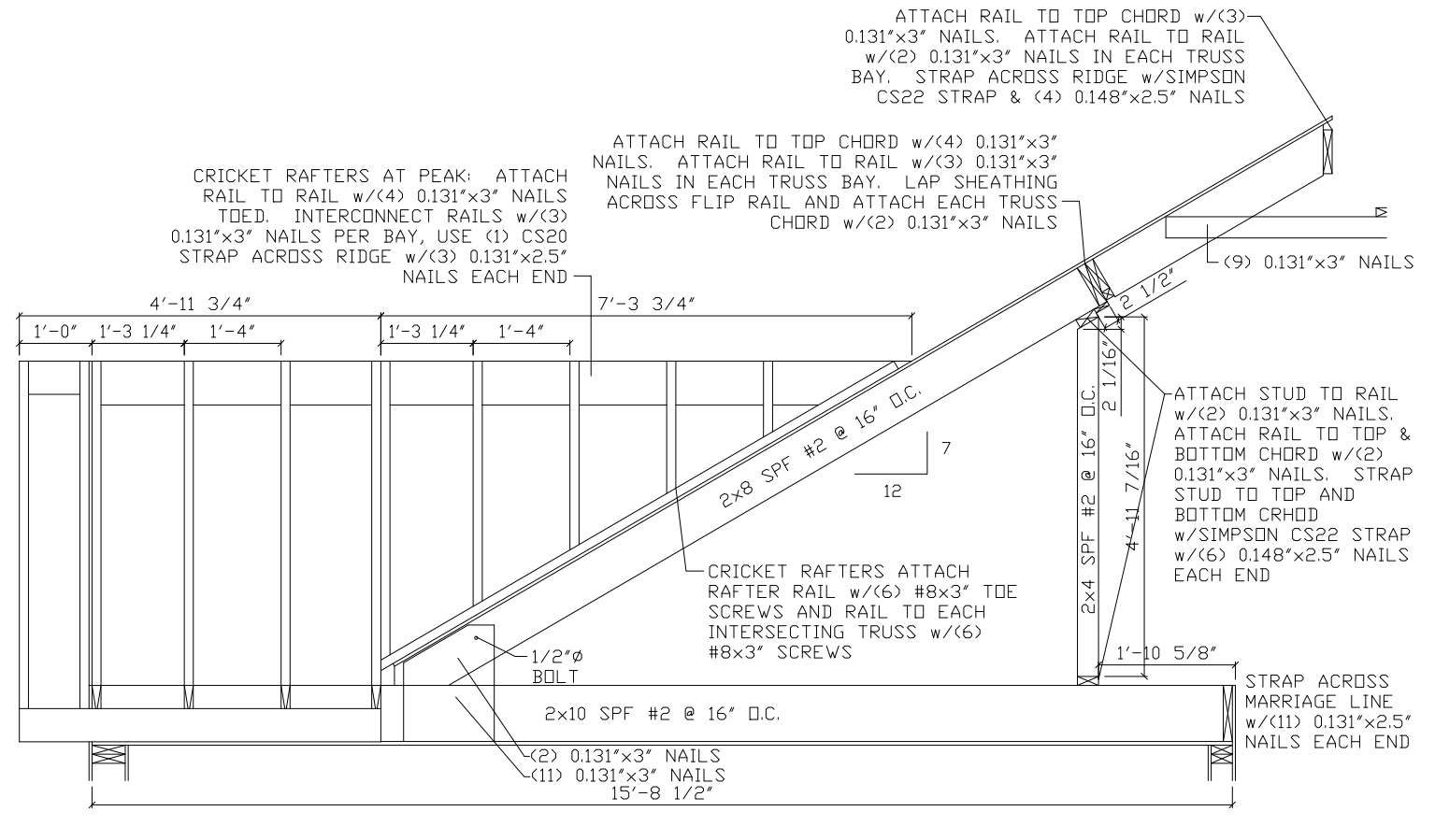
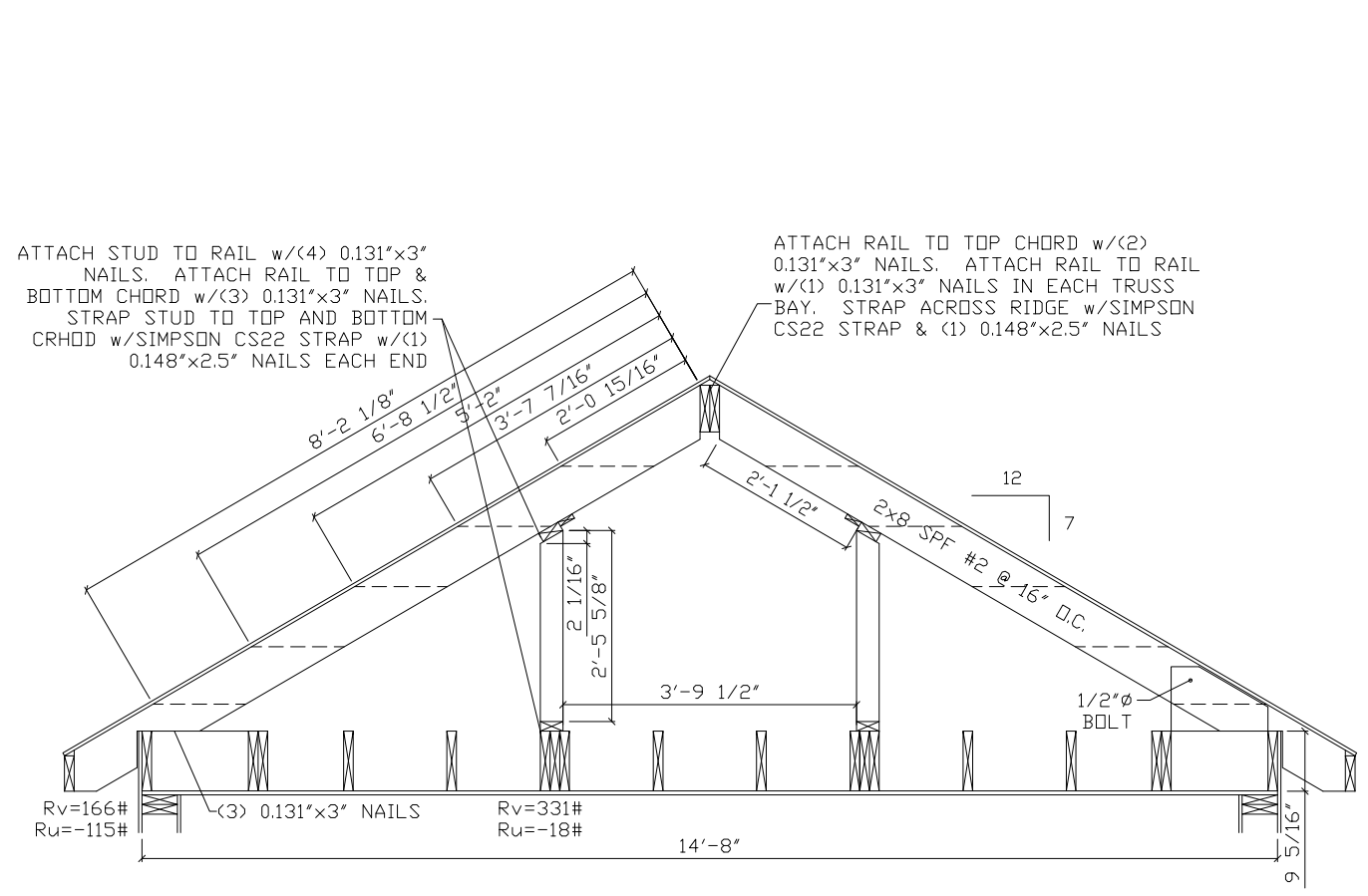
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STAGE	DATE	DRAWN BY
PRELIM	10/26/21	KND
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PURCHASING	2/28/22	KND
APPROVAL	3/22/22	KD
-	-	-
-	-	-

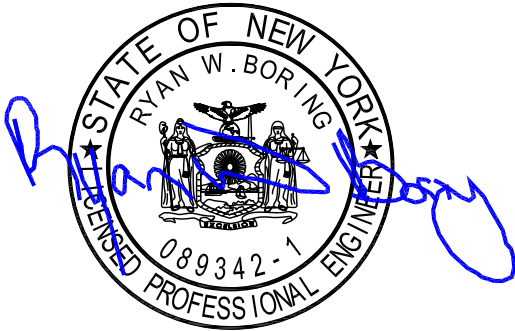
THE PEAK OF PERFECTION
APEX HOMES OF PA, LLC.
 7172 ROUTE 522
 MIDDLEBURG, PA 17042
 PHONE: (570) 837-2333



A1.12



NOTES:
 -CONTINUOUS BRACING TO BE 2x3 (MINIMUM) OF ANY SPECIES/GRADE
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 -BRACING MAY BE SUBSTITUTED WITH FULL-HEIGHT BLOCKING BETWEEN FRAMING MEMBERS OR CONTINUOUS SHEATHING
 -UPLIFT CALCULATIONS ARE BASED ON ALLOWABLE WIND SPEEDS. EQUIVALENT ULTIMATE WIND SPEEDS ARE 129 MPH AND 154 MPH FOR 100 MPH AND 120 MPH ALLOWABLE WIND SPEEDS, RESPECTIVELY



Mar 22, 2022

APEX HOMES OF PA LLC

7172 ROUTE 522, MIDDLEBURG, PA 17842
 PHONE: 1-800-326-9524 * FAX: 1-570-837-2346

Electrical Load Calculation
 (Ref Article 220-82 N.E.C.)

Date : 3/22/2022

Mfg: Apex Homes of PA LLC

By : Ken Dieffenbach

Model: QN-17552
3042 Custom Addition

Air Conditioning (100%)		Watts or Volt-Amps
Central Electric Space Heating	(<u> </u> x .65)*	<u>N/A</u>
Less than 4 separately		
controlled space	(<u> </u> x .65)	<u>N/A</u>
heating units		
4 or more separately		
controlled space	(<u> </u> x .40)	<u>N/A</u>
heating units		

* Use the larger of the air-conditioning load
 or the diversified demand of the heating load

	Watts of Volt-Amps	Circuit Ampacity	Wire Size
Other Loads:			
General Lighting: (25.83 x 41.8 = 1,080 x 1 = 1,080 x 3)=	<u>3,241</u>	<u>15</u>	<u>14/2 w/gr</u>
- (Projections) (14.67 x 4.2 = 62 x 1 = 62 x 3)=	<u>185</u>	<u>15</u>	<u>14/2 w/gr</u>
- (Projections) (0 x 0 = 0 x 1 = 0 x 3)=	<u>0</u>	<u>15</u>	<u>14/2 w/gr</u>
- (Projections) (0 x 0 = 0 x 1 = 0 x 4)=	<u>0</u>	<u>15</u>	<u>14/2 w/gr</u>
Small Appliances (2 x 1500)	<u>3,000</u>	<u>20</u>	<u>12/2 w/gr</u>
Laundry (1500 watts)	<u>1,500</u>	<u>20</u>	<u>12/2 w/gr</u>
Dryer	<u>5,000</u>	<u>30</u>	<u>10/3 w/gr</u>
Water Heater	<u>4,500</u>	<u>25</u>	<u>10/2 w/gr</u>
Range (use nameplate rating)	<u>8,000</u>	<u>40</u>	<u>8/3 w/gr</u>
Dishwasher	<u>1,400</u>	<u>20</u>	<u>12/2 w/gr</u>

Subtotal: 26,826

First 10 KW of loads @ 100%		<u>-10,000</u>
Remainder of loads @ 40%	<u>16,826 x 0.4</u>	<u>6,730</u>
A/C Heating Load		
Total Calculated Load		<u>16,730</u>

Required Service Size = 16,730 / 240 ≡ **70 Amps**
 Installed Panel Size = 200 Amps

**NOTICE OF UTILIZATION OF TRUSS TYPE CONSTRUCTION,
PRE-ENGINEERED WOOD CONSTRUCTION AND/OR TIMBER
CONSTRUCTION IN RESIDENTIAL STRUCTURES**

(In accordance with Title 19 NYCRR PART 1265)

<Insert authority having jurisdiction Logo here>

TO: *<Insert the name of the authority having jurisdiction here>*

OWNER OF PROPERTY: Custom Modular Direct/DiBenedetto

SUBJECT PROPERTY (ADDRESS AND TAX MAP NUMBER):

12 Freedom Road White Plains, NY

PLEASE TAKE NOTICE THAT THE (CHECK ALL THAT APPLY):

- New Residential Structure
- Addition to Existing Residential Structure
- Rehabilitation to Existing Residential Structure

**TO BE CONSTRUCTED OR PERFORMED AT THE SUBJECT PROPERTY REFERENCE ABOVE WILL UTILIZE
(check each applicable line):**

- Truss Type Construction (TT)
- Pre-Engineered Wood Construction (PW)
- Timber Construction (TC)

IN THE FOLLOWING LOCATION(S) (CHECK APPLICABLE LINE):

- Floor Framing, Including Girders and Beams (F)
- Roof Framing (R)
- Floor Framing and Roof Framing (FR)

SIGNATURE: _____ **DATE:** _____

PRINT NAME: _____

CAPACITY (Check One): Owner Owner's Representative

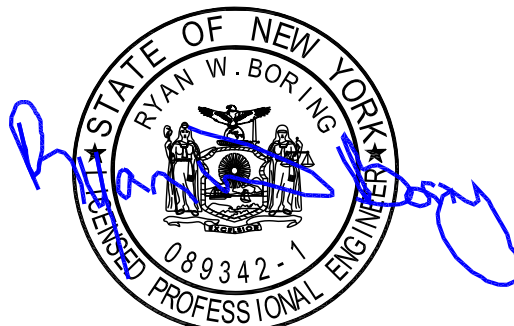


Generated by REScheck-Web Software

Compliance Certificate

Project A17552

Energy Code: **2018 IECC**
 Location: **White Plains, New York**
 Construction Type: **Single-family**
 Project Type: **New Construction**
 Conditioned Floor Area: **1,141 ft²**
 Glazing Area: **14%**
 Climate Zone: **4 (5470 HDD)**
 Permit Date:
 Permit Number:



Mar 22, 2022

Construction Site:
 12 Freedom Road
 White Plains, NY 10603

Owner/Agent:
 Custom Modular Direct
 3346 Kump Station Rd
 Taneytown, MD 21787

Designer/Contractor:
 Apex Homes of PA LLC
 7172 Route 522
 Middleburg, PA 17842

Compliance: Passes using UA trade-off

Compliance: **2.6% Better Than Code** Maximum UA: **194** Your UA: **189** Maximum SHGC: **0.40** Your SHGC: **0.29**

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.

Slab-on-grade tradeoffs are no longer considered in the UA or performance compliance path in REScheck. Each slab-on-grade assembly in the specified climate zone must meet the minimum energy code insulation R-value and depth requirements.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
Ceiling: Flat Ceiling or Scissor Truss	1,141	38.0	0.0	0.030	0.026	34	30
Wall: Wood Frame, 16" o.c.	1,149	21.0	0.0	0.057	0.060	57	60
Window: Vinyl Frame SHGC: 0.29	157			0.280	0.320	44	50
Floor: All-Wood Joist/Truss	1,141	19.0	0.0	0.047	0.047	54	54

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 2018 IECC requirements in REScheck Version : REScheck-Web and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Ken Dieffenbach

Ken Dieffenbach

3/22/22

Name - Title

Signature

Date



Inspection Checklist

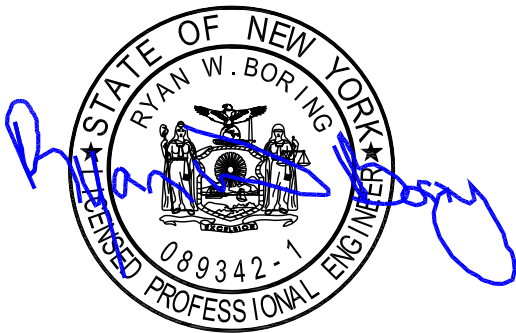
Energy Code: 2018 IECC

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. Thermal envelope represented on construction documents.			<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, 403.7 [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:

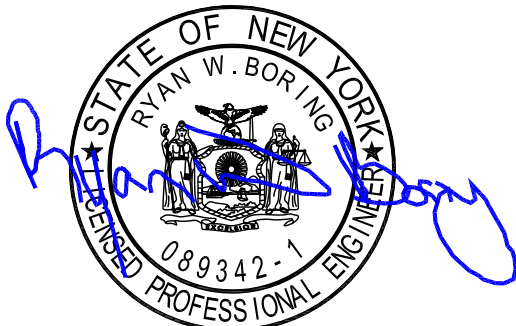


Mar 22, 2022

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

Section # & Req.ID	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	
403.9 [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	

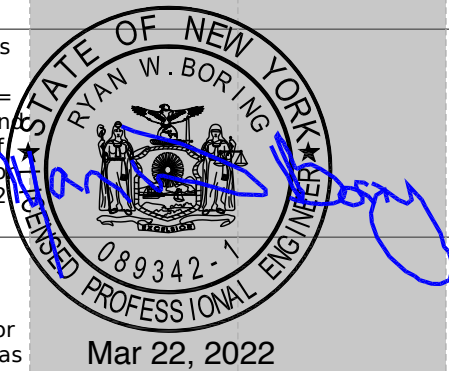
Additional Comments/Assumptions:



Mar 22, 2022

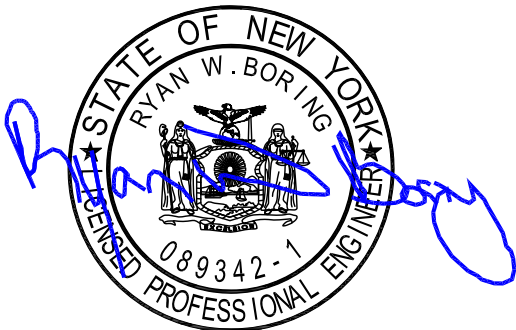
1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
------------------------	--------------------------	-----------------------

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, 402.5 [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	
402.4.5 [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	
403.3.1 [FR12] ¹	Supply and return ducts in attics insulated ≥ R-8 where duct is ≥ 3 inches in diameter and ≥ R-6 where < 3 inches. Supply and return ducts in other portions of the building insulated ≥ R-6 for diameter ≥ 3 inches and R-4.2 for < 3 inches in diameter.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.2 [FR13] ¹	Ducts, air handlers and filter boxes are sealed with joints/seams compliant with International Mechanical Code or International Residential Code, as applicable.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.5 [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	
403.4 [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	
403.4.1 [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	
403.5.3 [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	
403.6 [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	



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

Additional Comments/Assumptions:

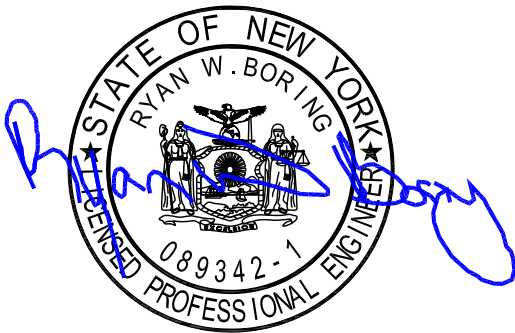


Mar 22, 2022

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, 402.2.8 [IN2] ¹	Floor insulation installed per manufacturer's instructions and in substantial contact with the underside of the subfloor, or floor framing cavity insulation is in contact with the top side of sheathing, or continuous insulation is installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.			<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:



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1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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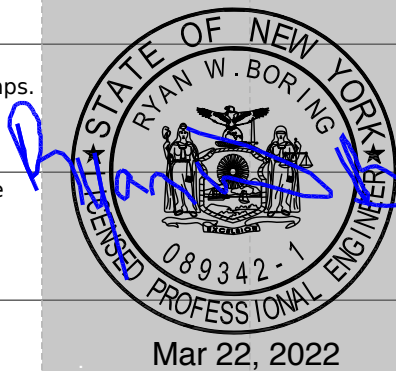
Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.2.1, 402.2.6 [FI1] ¹	Ceiling insulation R-value.	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> 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	
403.3.3 [FI27] ¹	Ducts are pressure tested to determine air leakage with either: Rough-in test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the system including the manufacturer's air handler enclosure if installed at time of test. Postconstruction test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the entire system including the manufacturer's air handler enclosure.	____ 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	
403.3.4 [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	
403.3.2.1 [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 for control of primary heating and cooling systems and initially set by manufacturer to code specifications.			<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	
403.5.1 [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	



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

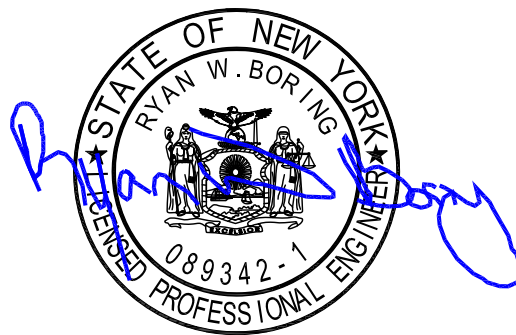
Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.6.1 [FI25] ²	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits per Table R403.6.1.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.2 [FI26] ²	Hot water boilers supplying heat through one- or two-pipe heating systems have outdoor setback control to lower boiler water temperature based on outdoor temperature.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.1.1 [FI28] ²	Heated water circulation systems have a circulation pump. The system return pipe is a dedicated return pipe or a cold water supply pipe. Gravity and thermosyphon circulation systems are not present. Controls for circulating hot water system pumps start the pump with signal for hot water demand within the occupancy. Controls automatically turn off the pump when water is in circulation loop is at set-point temperature and no demand for hot water exists.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.1.2 [FI29] ²	Electric heat trace systems comply with IEEE 515.1 or UL 515. Controls automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.2 [FI30] ²	Demand recirculation water systems have controls that manage operation of the pump and limit the temperature of the water entering the cold water piping to $\leq 104^{\circ}\text{F}$.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.4 [FI31] ²	Drain water heat recovery units tested in accordance with CSA B55.1. Potable water-side pressure loss of drain water heat recovery units < 3 psi for individual units connected to one or two showers. Potable water-side pressure loss of drain water heat recovery units < 2 psi for individual units connected to three or more showers.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
404.1 [FI6] ¹	90% or more of permanent fixtures have high efficacy lamps.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
404.1.1 [FI23] ³	Fuel gas lighting systems have no continuous pilot light.			<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
401.3 [FI7] ²	Compliance certificate posted.			<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
303.3 [FI18] 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:



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1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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2018 IECC Energy Efficiency Certificate

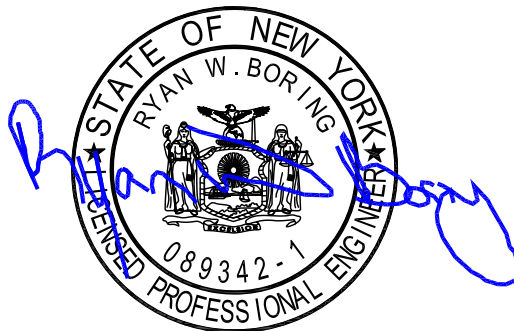
Insulation Rating	R-Value
Above-Grade Wall	21.00
Below-Grade Wall	0.00
Floor	19.00
Ceiling / Roof	38.00
Ductwork (unconditioned spaces):	_____

Glass & Door Rating	U-Factor	SHGC
Window	0.28	0.29
Door		

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

Name: _____ Date: _____

Comments



Mar 22, 2022

Calculation Manual 2020 RCNYS

Apex Homes of PA, LLC

**Plant Address:
7172 Route 522
Middleburg, PA 17842**

2015 & 2018 ICC code references in this manual also comply with the 2020 RCNYS codes.

This manual has been prepared by:
David E. Billingsley, P.E.
217 East Main Street
Middleburg, PA 17842
Ph 570-837-0577

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

**Marriage Wall
Floor Girders**

Header Type (2) 2x10		SYP	No.2	per box	deltaLL = L/360 deltaTL = L/240	CD = 1.15
Load (plf)	Shear Length, L _v (in)	Moment Length, L _M (in)	Deflection Live Load (80% TL) Length, L _{deltaLL} (in)	Deflection Total Load Length, L _{deltaTL} (in)		Max Allowable Length (in) Max Allowable Length (ft)
100	912.1	194.4	207.0	219.9		194.4 16.2
150	614.2	158.7	180.8	192.1		158.7 13.2
200	465.3	137.4	164.3	174.6		137.4 11.5
250	375.9	122.9	152.5	162.0		122.9 10.2
300	316.4	112.2	143.5	152.5		112.2 9.4
350	273.8	103.9	136.3	144.9		103.9 8.7
400	241.9	97.2	130.4	138.5		97.2 8.1
450	217.1	91.6	125.4	133.2		91.6 7.6
500	197.2	86.9	121.0	128.6		86.9 7.2
550	181.0	82.9	117.2	124.6		82.9 6.9
600	167.4	79.4	113.9	121.0		79.4 6.6
650	156.0	76.2	110.9	117.8		76.2 6.4
700	146.2	73.5	108.2	115.0		73.5 6.1
750	137.6	71.0	105.7	112.4		71.0 5.9
800	130.2	68.7	103.5	110.0		68.7 5.7
850	123.6	66.7	101.4	107.8		66.7 5.6
900	117.8	64.8	99.5	105.7		64.8 5.4
950	112.6	63.1	97.7	103.8		63.1 5.3
1000	107.9	61.5	96.1	102.1		61.5 5.1
1050	103.6	60.0	94.5	100.4		60.0 5.0
1100	99.7	58.6	93.1	98.9		58.6 4.9
1150	96.2	57.3	91.7	97.4		57.3 4.8
1200	93.0	56.1	90.4	96.1		56.1 4.7
1250	90.0	55.0	89.2	94.8		55.0 4.6
1300	87.2	53.9	88.0	93.5		53.9 4.5
1350	84.7	52.9	86.9	92.4		52.9 4.4
1400	82.3	52.0	85.9	91.2		52.0 4.3
1450	80.1	51.0	84.9	90.2		51.0 4.3
1500	78.1	50.2	83.9	89.2		50.2 4.2

Floor Load Only

Total Load Only

Notes:

1. Headers are designed for a maximum live load deflection of L/360 and total load deflection of L/240. See door/window manufacturer's specifications for additional requirements.

Marriage Wall Headers

Header Type (2)		2x6	SPF	No.1/No.2	per box	deltaLL = L/360	CD = 1.15
						deltaTL = L/240	
Load (plf)	Shear Length, L _v (in)	Moment Length, L _M (in)	Deflection Live Load (80% TL) Length, L _{deltaLL} (in)	Deflection Total Load Length, L _{deltaTL} (in)		Max Allowable Length (in)	Max Allowable Length (ft)
100	420.9	137.8	123.1	130.8		123.1	10.3
150	284.2	112.5	107.5	114.2		107.5	9.0
200	215.9	97.5	97.7	103.8		97.5	8.1
250	174.9	87.2	90.7	96.3		87.2	7.3
300	147.6	79.6	85.3	90.7		79.6	6.6
350	128.1	73.7	81.0	86.1		73.7	6.1
400	113.5	68.9	77.5	82.4		68.9	5.7
450	102.1	65.0	74.5	79.2		65.0	5.4
500	93.0	61.6	72.0	76.5		61.6	5.1
550	85.5	58.8	69.7	74.1		58.8	4.9
600	79.3	56.3	67.7	72.0		56.3	4.7
650	74.1	54.1	65.9	70.1		54.1	4.5
700	69.6	52.1	64.3	68.4		52.1	4.3
750	65.6	50.3	62.9	66.8		50.3	4.2
800	62.2	48.7	61.5	65.4		48.7	4.1
850	59.2	47.3	60.3	64.1		47.3	3.9
900	56.5	45.9	59.2	62.9		45.9	3.8
950	54.1	44.7	58.1	61.7		44.7	3.7
1000	52.0	43.6	57.1	60.7		43.6	3.6
1050	50.0	42.5	56.2	59.7		42.5	3.5
1100	48.3	41.6	55.3	58.8		41.6	3.5
1150	46.6	40.6	54.5	57.9		40.6	3.4
1200	45.2	39.8	53.7	57.1		39.8	3.3
1250	43.8	39.0	53.0	56.3		39.0	3.2
1300	42.5	38.2	52.3	55.6		38.2	3.2
1350	41.4	37.5	51.7	54.9		37.5	3.1
1400	40.3	36.8	51.1	54.3		36.8	3.1
1450	39.3	36.2	50.5	53.6		36.2	3.0
1500	38.3	35.6	49.9	53.0		35.6	3.0

Notes:

1. Headers are designed for a maximum live load deflection of L/360 and total load deflection of L/240. See door/window manufacturer's specifications for additional requirements.

Ceiling Beam @
 Bedroom #1

Header Type (2)		2x12	SPF	No.1/No.2	per box	deltaLL = L/360	CD = 1.15
						deltaTL = L/240	
Load (plf)	Shear Length, L _v (in)	Moment Length, L _M (in)	Deflection Live Load (80% TL) Length, L _{deltaLL} (in)	Deflection Total Load Length, L _{deltaTL} (in)		Max Allowable Length (in)	Max Allowable Length (ft)
100	860.9	247.2	251.7	267.5		247.2	20.6
150	581.4	201.9	219.9	233.7		201.9	16.8
200	441.7	174.8	199.8	212.3		174.8	14.6
250	357.8	156.4	185.5	197.1		156.4	13.0
300	302.0	142.7	174.5	185.5		142.7	11.9
350	262.0	132.2	165.8	176.2		132.2	11.0
400	232.1	123.6	158.6	168.5		123.6	10.3
450	208.8	116.6	152.5	162.0		116.6	9.7
500	190.2	110.6	147.2	156.4		110.6	9.2
550	174.9	105.4	142.6	151.5		105.4	8.8
600	162.2	100.9	138.5	147.2		100.9	8.4
650	151.5	97.0	134.9	143.3		97.0	8.1
700	142.3	93.4	131.6	139.8		93.4	7.8
750	134.3	90.3	128.6	136.6		90.3	7.5
800	127.3	87.4	125.9	133.7		87.4	7.3
850	121.1	84.8	123.3	131.1		84.8	7.1
900	115.7	82.4	121.0	128.6		82.4	6.9
950	110.7	80.2	118.8	126.3		80.2	6.7
1000	106.3	78.2	116.8	124.2		78.2	6.5
1050	102.3	76.3	114.9	122.1		76.3	6.4
1100	98.7	74.5	113.2	120.3		74.5	6.2
1150	95.4	72.9	111.5	118.5		72.9	6.1
1200	92.4	71.4	109.9	116.8		71.4	5.9
1250	89.6	69.9	108.5	115.3		69.9	5.8
1300	87.0	68.6	107.0	113.8		68.6	5.7
1350	84.6	67.3	105.7	112.3		67.3	5.6
1400	82.4	66.1	104.4	111.0		66.1	5.5
1450	80.3	64.9	103.2	109.7		64.9	5.4
1500	78.4	63.8	102.1	108.5		63.8	5.3

Notes:

1. Headers are designed for a maximum live load deflection of L/360 and total load deflection of L/240. See door/window manufacturer's specifications for additional requirements.

Sidewall Headers

Header Type (3)		2x6	SPF	No.1/No.2	per box	deltaLL = L/360	CD = 1.15
						deltaTL = L/240	
Load (plf)	Shear Length, L _v (in)	Moment Length, L _M (in)	Deflection Live Load (80% TL) Length, L _{deltaLL} (in)	Deflection Total Load Length, L _{deltaTL} (in)		Max Allowable Length (in)	Max Allowable Length (ft)
100	625.8	181.0	140.9	149.7		140.9	11.7
150	420.9	147.8	123.1	130.8		123.1	10.3
200	318.4	128.0	111.8	118.8		111.8	9.3
250	256.9	114.5	103.8	110.3		103.8	8.6
300	215.9	104.5	97.7	103.8		97.7	8.1
350	186.7	96.8	92.8	98.6		92.8	7.7
400	164.7	90.5	88.7	94.3		88.7	7.4
450	147.6	85.3	85.3	90.7		85.3	7.1
500	134.0	81.0	82.4	87.5		81.0	6.7
550	122.8	77.2	79.8	84.8		77.2	6.4
600	113.5	73.9	77.5	82.4		73.9	6.2
650	105.6	71.0	75.5	80.2		71.0	5.9
700	98.8	68.4	73.6	78.3		68.4	5.7
750	93.0	66.1	72.0	76.5		66.1	5.5
800	87.8	64.0	70.4	74.8		64.0	5.3
850	83.3	62.1	69.0	73.3		62.1	5.2
900	79.3	60.3	67.7	72.0		60.3	5.0
950	75.7	58.7	66.5	70.7		58.7	4.9
1000	72.5	57.2	65.4	69.5		57.2	4.8
1050	69.6	55.9	64.3	68.4		55.9	4.7
1100	66.9	54.6	63.3	67.3		54.6	4.5
1150	64.5	53.4	62.4	66.3		53.4	4.4
1200	62.2	52.3	61.5	65.4		52.3	4.4
1250	60.2	51.2	60.7	64.5		51.2	4.3
1300	58.3	50.2	59.9	63.7		50.2	4.2
1350	56.5	49.3	59.2	62.9		49.3	4.1
1400	54.9	48.4	58.4	62.1		48.4	4.0
1450	53.4	47.5	57.8	61.4		47.5	4.0
1500	52.0	46.7	57.1	60.7		46.7	3.9

Notes:

1. Headers are designed for a maximum live load deflection of L/360 and total load deflection of L/240. See door/window manufacturer's specifications for additional requirements.

Transverse
Support Beams

Header Type: (3)		1.5" x 9.25"		LVL		per box		deltaLL = L/360 deltaTL = L/240		CD = 1.15	
Load (plf)	Shear Length, L _v (in)	Moment Length, L _M (in)	Deflection Live Load (80% TL) Length, L _{deltaLL} (in)	Deflection Total Load Length, L _{deltaTL} (in)		Max Allowable Length (in)	Max Allowable Length (ft)				
100	2201.3	481.8	266.8	283.5		266.8	22.2				
150	1473.7	393.4	233.1	247.7		233.1	19.4				
200	1109.9	340.7	211.8	225.0		211.8	17.6				
250	891.6	304.7	196.6	208.9		196.6	16.4				
300	746.1	278.2	185.0	196.6		185.0	15.4				
350	642.2	257.5	175.7	186.7		175.7	14.6				
400	564.2	240.9	168.1	178.6		168.1	14.0				
450	503.6	227.1	161.6	171.7		161.6	13.5				
500	455.1	215.5	156.0	165.8		156.0	13.0				
550	415.4	205.4	151.2	160.6		151.2	12.6				
600	382.3	196.7	146.8	156.0		146.8	12.2				
650	354.3	189.0	143.0	151.9		143.0	11.9				
700	330.3	182.1	139.5	148.2		139.5	11.6				
750	309.5	175.9	136.3	144.9		136.3	11.4				
800	291.4	170.3	133.4	141.8		133.4	11.1				
850	275.3	165.3	130.7	138.9		130.7	10.9				
900	261.0	160.6	128.3	136.3		128.3	10.7				
950	248.3	156.3	126.0	133.9		126.0	10.5				
1000	236.8	152.4	123.8	131.6		123.8	10.3				
1050	226.4	148.7	121.8	129.5		121.8	10.2				
1100	216.9	145.3	120.0	127.5		120.0	10.0				
1150	208.3	142.1	118.2	125.6		118.2	9.9				
1200	200.4	139.1	116.5	123.8		116.5	9.7				
1250	193.1	136.3	115.0	122.2		115.0	9.6				
1300	186.4	133.6	113.5	120.6		113.5	9.5				
1350	180.2	131.1	112.1	119.1		112.1	9.3				
1400	174.4	128.8	110.7	117.6		110.7	9.2				
1450	169.0	126.5	109.4	116.3		109.4	9.1				
1500	164.0	124.4	108.2	115.0		108.2	9.0				

Notes:

1. Headers are designed for a maximum live load deflection of L/360 and total load deflection of L/240. See door/window manufacturer's specifications for additional requirements.

Bedroom #3
Window Header

Maximum Header Spans with Point Load Anywhere			
Header Qty, Size, Species, & Grade (Max Shear Capacity)	Maximum Concentrated Load	Maximum Header Span	Max Reaction at End of Header
(3) 2x4 SPF #2 (1,417 lb)	500 lb	5.6 ft	780 lb
	1000 lb	3.8 ft	1190 lb
	1500 lb	NA	NA
(3) 2x6 SPF #2 (2,227 lb)	500 lb	9.6 ft	980 lb
	1000 lb	7.0 ft	1350 lb
	1500 lb	5.4 ft	1770 lb
	2000 lb	4.4 ft	2220 lb
	2500 lb	NA	NA
(3) 2x8 SPF #2 (2,936 lb)	500 lb	13.0 ft	1150 lb
	1000 lb	10.2 ft	1510 lb
	1500 lb	8.0 ft	1900 lb
	2000 lb	6.6 ft	2330 lb
	2500 lb	5.6 ft	2780 lb
	3000 lb	NA	NA
(3) 2x10 SPF #2 (3,746 lb)	1000 lb	13.6 ft	1680 lb
	2000 lb	9.4 ft	2470 lb
	3000 lb	7.0 ft	3350 lb
	4000 lb	NA	NA
(3) 2x12 SPF #2 (4,556 lb)	1000 lb	16.4 ft	1820 lb
	2000 lb	11.8 ft	2590 lb
	3000 lb	9.0 ft	3450 lb
	4000 lb	7.0 ft	4350 lb
	5000 lb	NA	NA

$$C_D = 1.00$$

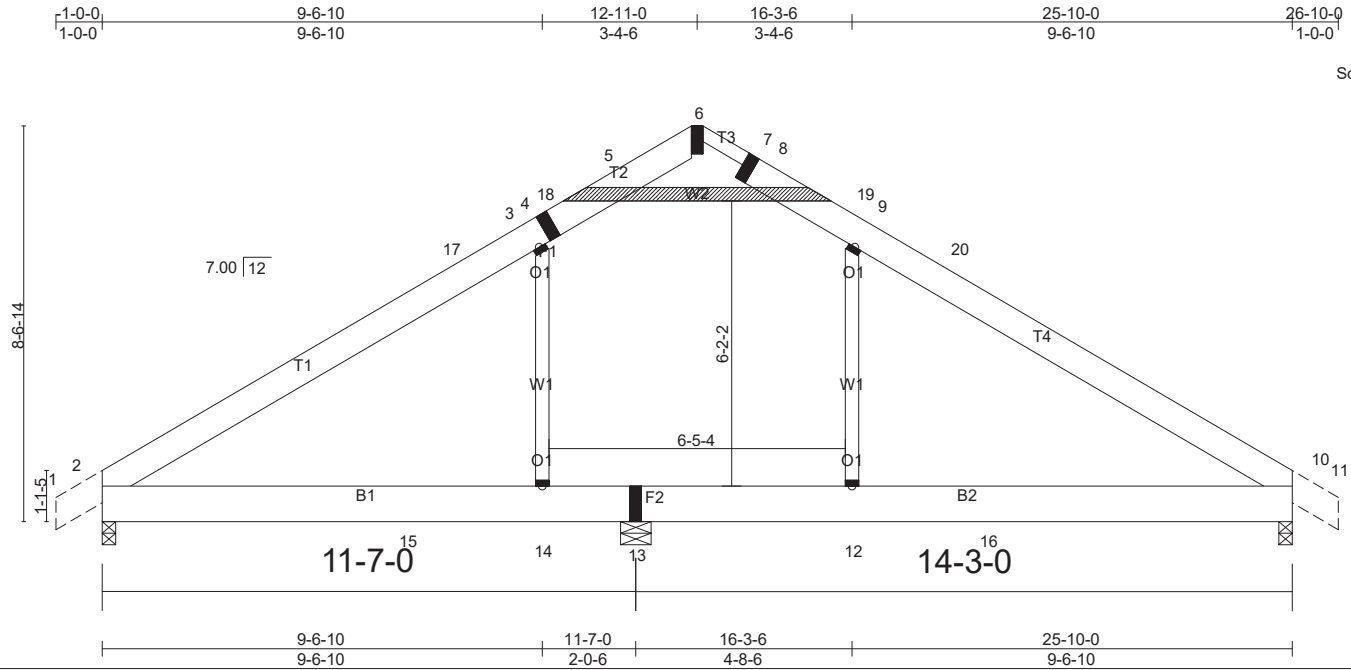
$$\Delta_{LL} = L/360$$

$$\Delta_{TL} = L/240$$

Note:

1. Headers are designed for maximum of 100plf dead load in addition to point load.
2. Shear capacity, $V = 2/3 \cdot F_v' \cdot b \cdot d$
3. Headers are designed for a maximum live load deflection of L/360 and total load deflection of L/240. See door/window manufacturer's specifications for additional requirements. Point-loaded headers must be evaluated on a case-by-case basis if manufacturer's specifications are more stringent than building code requirements.

Job	Truss	Truss Type	Qty	Ply	
MA22054 APEX QN-17552-N-N	R1	ATTIC	1	1	Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL (roof) 20.0	1-4-0	TC 0.41	Vert(LL)	-0.13 10-12	>999	240
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.37	Vert(CT)	-0.20 10-12	>861	180
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Horz(CT)	0.01 10	n/a	n/a
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Attic	-0.11 12-13	1025	360
BCDL 10.0	Code IRC2018/TPI2014					

LUMBER-	BRACING-
TOP CHORD 2x8 SPF No.2 *Except* T6,T7,T3: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x10 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

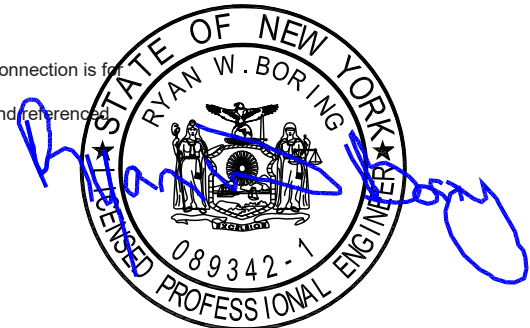
REACTIONS. (lb/size) 2=618/0-3-8 (min. 0-1-8), 13=345/0-8-0 (min. 0-1-8), 10=654/0-3-8 (min. 0-1-8)
 Max Horz 2=-122(LC 14)
 Max Uplift 2=-50(LC 16), 13=-59(LC 16), 10=-56(LC 16)
 Max Grav 2=686(LC 25), 13=545(LC 5), 10=775(LC 6)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/9, 2-17=-718/4, 3-17=-578/17, 3-4=-549/67, 4-18=-535/69, 5-18=-518/78, 5-6=-76/28, 6-7=-37/124, 7-8=-46/92,
 8-19=-493/71, 9-19=-508/61, 9-20=-594/7, 10-20=-743/0, 10-11=0/9
 BOT CHORD 2-15=0/515, 14-15=0/515, 13-14=0/516, 12-13=0/516, 12-16=0/513, 10-16=0/513
 WEBS 5-8=-605/85, 3-14=-271/104, 9-12=-69/221

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
 3=271/104/0/0, 4=542/67/100/0, 5=605/85/10/0, 6=30/129/128/0, 7=44/97/27/0, 8=605/85/10/0, 9=69/221/0/0, 12=69/221/0/0, 13=0/516/351/0, 14=271/104/0/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 13-0-5, Exterior(2R) 13-0-5 to 16-0-5, Interior(1) 16-0-5 to 26-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - All additional member connections shall be provided by others for forces as indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 3-5, 8-9, 5-8
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-14, 12-13
 - One RT4 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, and 10. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

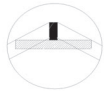


Mar 22, 2022

Standard Peak Connection

Compression = **30** lbs
Tension = **129** lbs
Shear = **128** lbs

Option 1



Attach 1x4 SPF Stud to One Side, Below Ridge, Every Truss, with One Of The Following in Each End

- A. 3 0.131" x 3" Nails
- B. 3 0.148" x 3" Nails
- C. 2 0.162" x 3" Nails

Option 2



Attach Rail to Top Chord With One of the Following

- A. 2 0.131" x 3" Nails
- B. 2 0.148" x 3" Nails
- C. 2 0.162" x 3" Nails



Attach Rail to To Rail with One Of the Following in Each Truss Bay

- A. 2 0.131" x 3" Nails
- B. 2 0.148" x 3" Nails
- C. 1 0.162" x 3" Nails



Strap Across Ridge With Simpson CS22 Strap and One Of the Following Each End

- A. 3 0.148" x 2-1/2" Nails
- B. 2 0.162" x 2-1/2" Nails



Collar Tie Connection

Compression = **605** lbs
Tension = **85** lbs

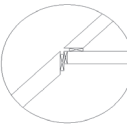


Attach Collar Tie to Top Chord with One of the Following in Each End

- A. 7 0.131" x 3" Nails
- B. 6 0.148" x 3" Nails
- C. 5 0.162" x 3" Nails

Alternate Collar Tie Connection

Tension Top Chord = **0** lbs
Shear = **0** lbs



Lap 7/16" 24/16 APA OSB Across Gap and Attach Each Truss Chord With

- A. 0 0.131" x 3" Nails
- B. 0 0.148" x 3" Nails
- C. 0 0.162" x 3" Nails

Attach Top Chords to Rails and Rails to Collar tie With

- A. 0 #8 x 3" Toe-Screws

Kneewall Connection

Compression = **271** lbs
Tension = **221** lbs

Top Chord



Attach Chord Block With One Of The Following

- A. 3 0.131" x 3" Nails
- B. 3 0.148" x 3" Nails
- C. 2 0.162" x 3" Nails

Attach Stud To Rail With (2) 0.131" x 3" Nails (or Toe-Nails) Minimum

Attach Rail to Top Chord, Bottom Chord or Block With (2) 0.131" x 3" Nails (or Toe-Nails) Minimum

Strap Stud to Top And Bottom Chord With

- Option 1 CS22 Strap with One Of the Following Each End
- A. 4 0.148" x 2-1/2" Nails
 - B. 4 0.162" x 2-1/2" Nails

Option 2 LTSA18 Strap With Each End

- A. 4 0.148" 2-1/2"

Option 3 H8 Twist Strap With Each End

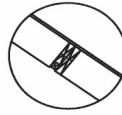
- A. 2 0.148" 1-1/2"



Flip Rail Connections

Tension = **97** lbs
Shear = **100** lbs

Shear Connection



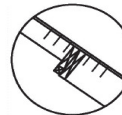
Attach Rail to Top Chord With One of the Following

- A. 2 0.131" x 3" Nails
- B. 2 0.148" x 3" Nails
- C. 2 0.162" x 3" Nails

Attach Rail to To Rail with One Of the Following in Each Truss Bay

- A. 2 0.131" x 3" Nails
- B. 1 0.148" x 3" Nails
- C. 1 0.162" x 3" Nails

Tension Connections

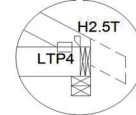


Lap 7/16" 24/16 APA OSB Across Flip Rail and Attach Each Truss Chord With

- A. 2 0.131" x 3" Nails
- B. 2 0.148" x 3" Nails
- C. 1 0.162" x 3" Nails

Heel Connection

Compression = **743** lbs
Tension = **515** lbs



No Gusset

Attach LTP4 and H2.5T To Both Side OR

- 6 #8 x 3" Toe-Screws

Gusset Connection



Top Chord

(1) Ply 7/16" 24/16 APA OSB Both Sides

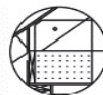
Option 1 (1) 1/2" Bolt Plus One Of the Following

- A. 1 0.131" x 3" Nails
- B. 1 0.148" x 3" Nails
- C. 1 0.162" x 3" Nails

- D. 2 7/16" x 1-1/2" x 16 Gage Staple

Bottom Chord

(1) Ply 7/16" 24/16 APA OSB Both Sides

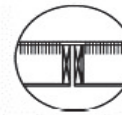


- A. 10 0.131" x 3" Nails
- B. 8 0.148" x 3" Nails
- C. 7 0.162" x 3" Nails

- D. 15 7/16" x 1-1/2" x 16 Gage Staple

Marriage Line Connection

Tension = **516** lbs



Lap 23/32" 48/24 APA Sheathing Across Marriage Line - (2' Minimum Width) With One Of the Following Each End

- A. 7 0.131" x 3" Nails
- B. 6 0.148" x 3" Nails
- C. 5 0.162" x 3" Nails

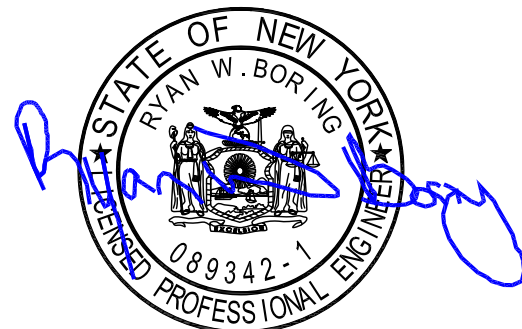
Strap Across Marriage Line With one Of The Following Each End

Option 1 CS18 Strap with One Of the Following Each End

- A. 9 0.131" x 2-1/2" Nails
- B. 7 0.148" x 2-1/2" Nails

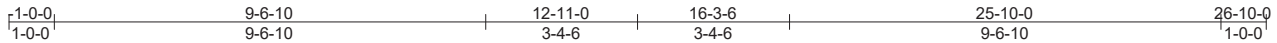
Option 2 CS22 Strap with One Of the Following Each End

- A. 9 0.148" x 2-1/2" Nails
- B. 8 0.162" x 2-1/2" Nails



Mar 22, 2022

Job	Truss	Truss Type	Qty	Ply	
MA22054 APEX QN-17552-N-N	R2	ATTIC	1	1	Job Reference (optional)



Scale = 1:51.0

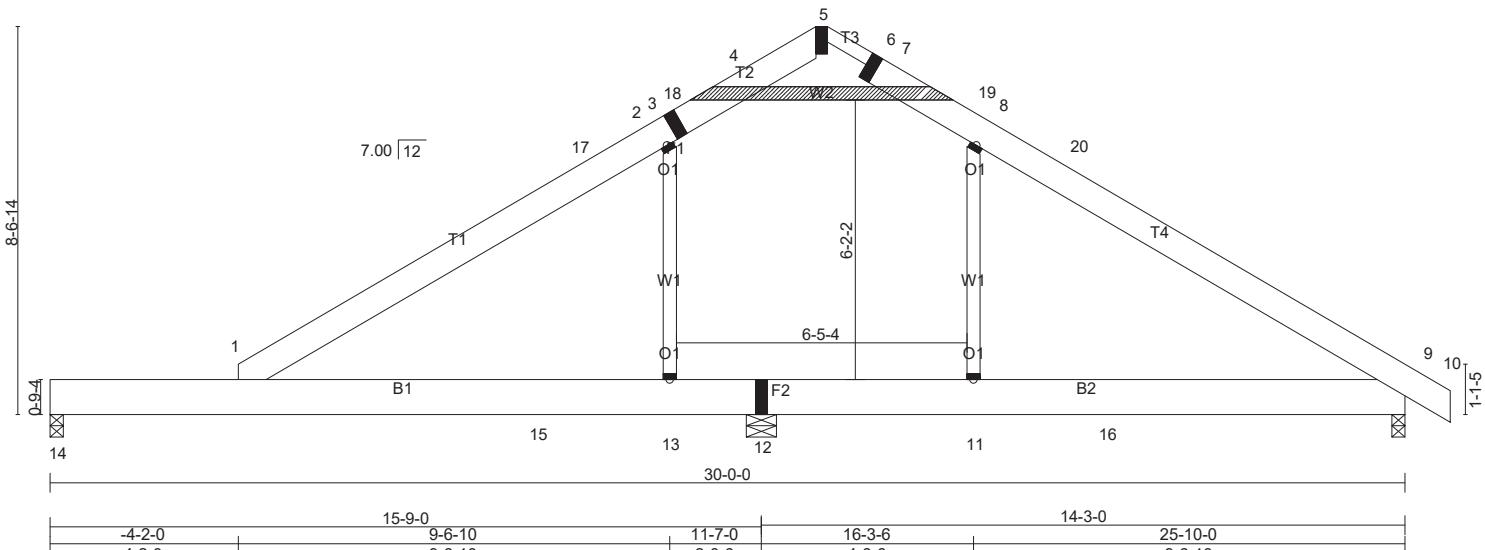


Plate Offsets (X,Y)-- [1:0-4-0,0-1-14]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.31 1-13	>596	240
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.54 1-13	>350	180
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01 9	n/a	n/a
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S		Attic	-0.13 12-13	375	360
BCDL	10.0								

LUMBER-
TOP CHORD 2x8 SPF No.2 *Except*
T6,T7,T3: 2x4 SPF No.2
BOT CHORD 2x10 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-1-0 oc bracing.

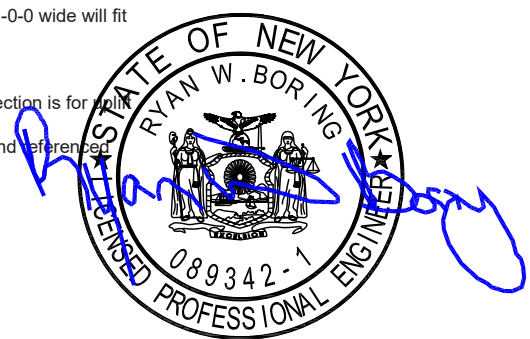
REACTIONS. (lb/size) 14=497/0-3-8 (min. 0-1-8), 12=687/0-8-0 (min. 0-1-8), 9=568/0-3-8 (min. 0-1-8)
Max Horz 14=-121(LC 14)
Max Uplift 12=-72(LC 16), 9=-52(LC 16)
Max Grav 14=525(LC 27), 12=929(LC 25), 9=698(LC 6)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-441/0, 2-17=-360/2, 2-3=-378/56, 3-18=-369/59, 4-18=-352/68, 4-5=-102/18, 5-6=-110/60, 6-7=-119/36,
7-19=-367/63, 8-19=-381/51, 8-20=-376/0, 9-20=-525/0, 9-10=0/9
BOT CHORD 1-14=-120/121, 1-15=0/350, 13-15=0/350, 12-13=0/347, 11-12=0/347, 11-16=0/351, 9-16=0/351
WEBS 4-7=-385/71, 2-13=-395/113, 8-11=-240/106

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
2=395/113/0/0, 3=373/57/101/0, 4=385/71/10/0, 5=103/64/93/0, 6=117/39/27/0, 7=385/71/10/0, 8=240/106/0/0, 11=240/106/0/0, 12=0/347/579/0, 13=395/113/0/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-0-5, Exterior(2R) 13-0-5 to 16-0-5, Interior(1) 16-0-5 to 26-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - All additional member connections shall be provided by others for forces as indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 2-4, 7-8, 4-7
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-13, 11-12
 - One RT4 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 9. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

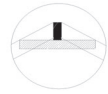


Mar 22, 2022

Standard Peak Connection

Compression = **103** lbs
Tension = **64** lbs
Shear = **93** lbs

Option 1



Attach 1x4 SPF Stud to One Side, Below Ridge, Every Truss, with One Of The Following in Each End

- A. 2 0.131" x 3" Nails
- B. 2 0.148" x 3" Nails
- C. 2 0.162" x 3" Nails

Option 2



FLIP TO RAIL

Attach Rail to Top Chord With One of the Following

- A. 2 0.131" x 3" Nails
- B. 2 0.148" x 3" Nails
- C. 2 0.162" x 3" Nails



FLIP TO FLIP

Attach Rail to To Rail with One Of the Following in Each Truss Bay and One Of the Following Each End

- A. 1 0.131" x 3" Nails
- B. 1 0.148" x 3" Nails
- C. 1 0.162" x 3" Nails

Strap Across Ridge With Simpson CS22 Strap

- A. 2 0.148" x 2-1/2" Nails
- B. 1 0.162" x 2-1/2" Nails

Collar Tie Connection

Compression = **385** lbs
Tension = **71** lbs

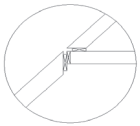


Attach Collar Tie to Top Chord with One of the Following in Each End

- A. 5 0.131" x 3" Nails
- B. 4 0.148" x 3" Nails
- C. 3 0.162" x 3" Nails

Alternate Collar Tie Connection

Tension Top Chord = **0** lbs
Shear = **0** lbs



Lap 7/16" 24/16 APA OSB Across Gap and Attach Each Truss Chord With

- A. 0 0.131" x 3" Nails
- B. 0 0.148" x 3" Nails
- C. 0 0.162" x 3" Nails

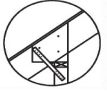
Attach Top Chords to Rails and Rails to Collar tie With

- A. 0 #8 x 3" Toe-Screws

Kneewall Connection

Compression = **395** lbs
Tension = **113** lbs

Top Chord



Attach Chord Block With One Of The Following

- A. 5 0.131" x 3" Nails
- B. 4 0.148" x 3" Nails
- C. 3 0.162" x 3" Nails

Attach Stud To Rail With (2) 0.131" x 3" Nails (or Toe-Nails) Minimum

Attach Rail to Top Chord, Bottom Chord or Block With (2) 0.131" x 3" Nails (or Toe-Nails) Minimum

Strap Stud to Top And Bottom Chord With

Option 1 CS22 Strap with One Of the Following Each End

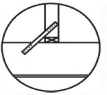
- A. 2 0.148" x 2-1/2" Nails
- B. 2 0.162" x 2-1/2" Nails

Option 2 LTSA18 Strap With Each End

- A. 2 0.148" 2-1/2"

Option 3 H8 Twist Strap With Each End

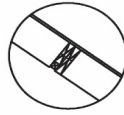
- A. 1 0.148" 1-1/2"



Flip Rail Connections

Tension = **57** lbs
Shear = **101** lbs

Shear Connection



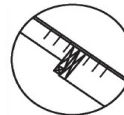
Attach Rail to Top Chord With One of the Following

- A. 2 0.131" x 3" Nails
- B. 2 0.148" x 3" Nails
- C. 2 0.162" x 3" Nails

Attach Rail to To Rail with One Of the Following in Each Truss Bay

- A. 2 0.131" x 3" Nails
- B. 1 0.148" x 3" Nails
- C. 1 0.162" x 3" Nails

Tension Connections

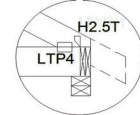


Lap 7/16" 24/16 APA OSB Across Flip Rail and Attach Each Truss Chord With

- A. 1 0.131" x 3" Nails
- B. 1 0.148" x 3" Nails
- C. 1 0.162" x 3" Nails

Heel Connection

Compression = **525** lbs
Tension = **351** lbs



No Gusset

Attach LTP4 and H2.5T To One Side OR

- 4 #8 x 3" Toe-Screws

Gusset Connection



Top Chord

(1) Ply 7/16" 24/16 APA OSB Both Sides

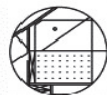
Option 1 (1) 1/2" Bolt Plus One Of the Following

- A. 0 0.131" x 3" Nails
- B. 0 0.148" x 3" Nails
- C. 0 0.162" x 3" Nails

- D. 0 7/16" x 1-1/2" x 16 Gage Staple

Bottom Chord

(1) Ply 7/16" 24/16 APA OSB Both Sides

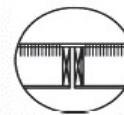


- A. 7 0.131" x 3" Nails
- B. 6 0.148" x 3" Nails
- C. 5 0.162" x 3" Nails

- D. 10 7/16" x 1-1/2" x 16 Gage Staple

Marriage Line Connection

Tension = **347** lbs



Lap 23/32" 48/24 APA Sheathing Across Marriage Line - (2' Minimum Width) With One Of the Following Each End

- A. 5 0.131" x 3" Nails
- B. 4 0.148" x 3" Nails
- C. 4 0.162" x 3" Nails

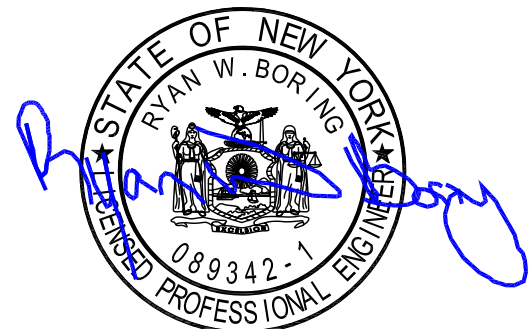
Strap Across Marriage Line With one Of The Following Each End

Option 1 CS18 Strap with One Of the Following Each End

- A. 6 0.131" x 2-1/2" Nails
- B. 5 0.148" x 2-1/2" Nails

Option 2 CS22 Strap with One Of the Following Each End

- A. 6 0.148" x 2-1/2" Nails
- B. 5 0.162" x 2-1/2" Nails

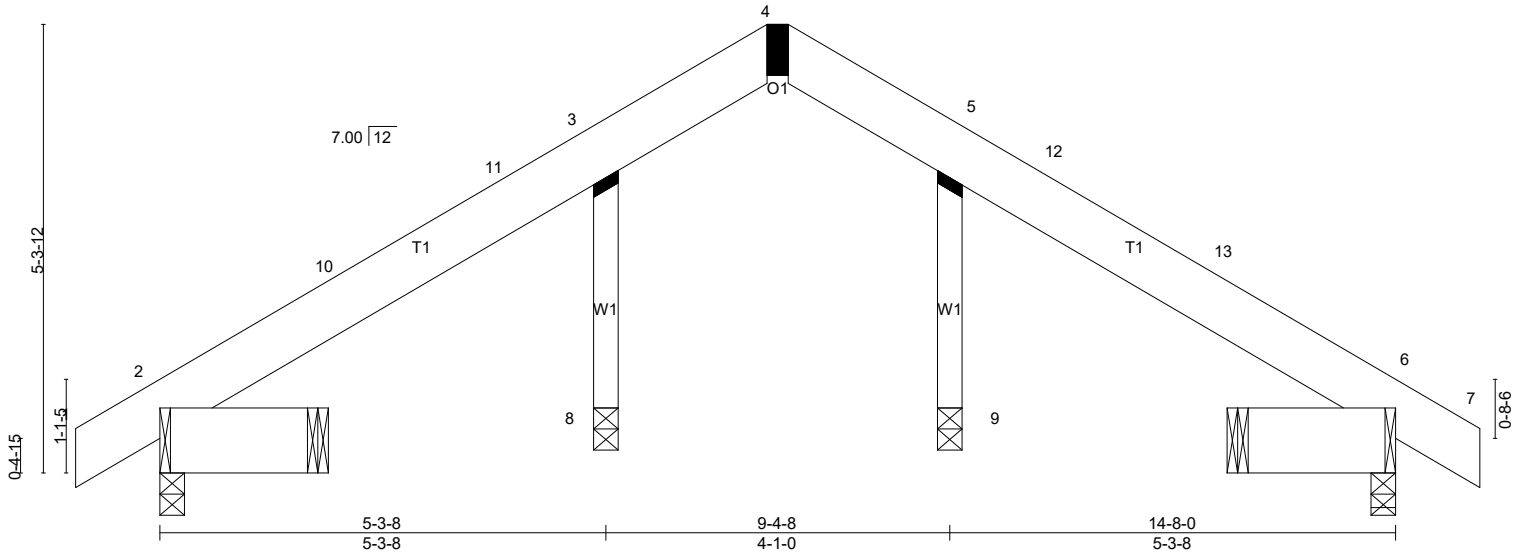


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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
MA22049 APEX QN-17552-NY	R3	ATTIC	1	1	



Scale = 1:27.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d
TCLL (roof) 20.0	1-4-0	TC 0.08	Vert(LL)	-0.02	4	>999	240
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.00	Vert(CT)	-0.02	4	>999	180
TCDL 10.0	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.05	9	n/a	n/a
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S					
BCDL 10.0	Code IRC2018/TPI2014						

LUMBER-	BRACING-
TOP CHORD 2x8 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x10 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

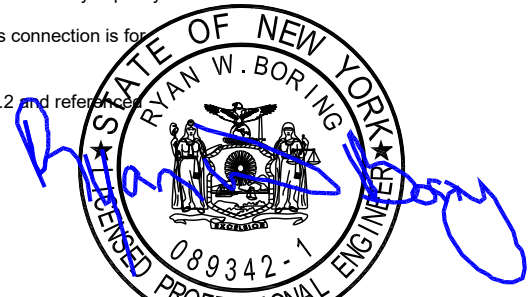
REACTIONS. (lb/size) 2=152/0-3-8 (min. 0-1-8), 6=152/0-3-8 (min. 0-1-8), 8=216/0-3-8 (min. 0-1-8), 9=216/0-3-8 (min. 0-1-8)
 Max Horz 2=-72(LC 14)
 Max Uplift 2=-115(LC 16), 6=-115(LC 16), 8=-18(LC 13), 9=-11(LC 16)
 Max Grav 2=166(LC 21), 6=164(LC 22), 8=330(LC 21), 9=331(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/25, 2-10=-83/76, 10-11=-54/81, 3-11=-54/107, 3-4=-78/109, 4-5=-77/111, 5-12=-30/96, 12-13=-40/88, 6-13=-57/83,
 6-7=0/25
 WEBS 3-8=-330/27, 5-9=-331/36

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
 3=330/27/0/0, 4=66/111/65/0, 5=-331/36/0/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=15ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-3-10, Exterior(2R) 7-3-10 to 10-3-10, Interior(1) 10-3-10 to 15-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) All additional member connections shall be provided by others for forces as indicated.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Bearing at joint(s) 8, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) One RT4 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 8, and 9. This connection is for uplift only and does not consider lateral forces.
 - 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 6.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and reference standard ANSI/TPI 1.
 - 11) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

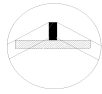


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Standard Peak Connection

Compression = 66 lbs
Tension = 11 lbs
Shear = 65 lbs

Option 1



Attach 1x4 SPF Stud to One Side, Below Ridge, Every Truss, with One Of The Following in Each End

- A. 1 0.131" x 3" Nails
- B. 1 0.148" x 3" Nails
- C. 1 0.162" x 3" Nails

Option 2



Attach Rail to Top Chord With One of the Following

- A. 2 0.131" x 3" Nails
- B. 1 0.148" x 3" Nails
- C. 1 0.162" x 3" Nails

FLIP TO RAIL

Attach Rail to To Rail with One Of the Following in Each Truss Bay

- A. 1 0.131" x 3" Nails
- B. 1 0.148" x 3" Nails
- C. 1 0.162" x 3" Nails



FLIP TO FLIP

Strap Across Ridge With Simpson CS22 Strap and One Of the Following Each End

- A. 1 0.148" x 2-1/2" Nails
- B. 1 0.162" x 2-1/2" Nails

Collar Tie Connection

Compression = 0 lbs
Tension = 0 lbs

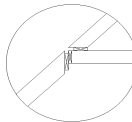


Attach Collar Tie to Top Chord with One of the Following in Each End

- A. 0 0.131" x 3" Nails
- B. 0 0.148" x 3" Nails
- C. 0 0.162" x 3" Nails

Alternate Collar Tie Connection

Tension Top Chord = 0 lbs
Shear = 0 lbs



Lap 7/16" 24/16 APA OSB Across Gap and Attach Each Truss Chord With

- A. 0 0.131" x 3" Nails
- B. 0 0.148" x 3" Nails
- C. 0 0.162" x 3" Nails

Attach Top Chords to Rails and Rails to Collar tie With

- A. 0 #8 x 3" Toe-Screws

Kneewall Connection

Compression = 331 lbs
Tension = 36 lbs

Top Chord



Attach Chord Block With One Of The Following

- A. 4 0.131" x 3" Nails
- B. 3 0.148" x 3" Nails
- C. 3 0.162" x 3" Nails

Attach Stud To Rail With (2) 0.131" x 3" Nails (or Toe-Nails) Minimum

Attach Rail to Top Chord, Bottom Chord or Block With (2) 0.131" x 3" Nails (or Toe-Nails) Minimum

Strap Stud to Top And Bottom Chord With

- Option 1 CS22 Strap with One Of the Following Each End
- A. 1 0.148" x 2-1/2" Nails
 - B. 1 0.162" x 2-1/2" Nails

Option 2 LTSA18 Strap With Each End

- A. 1 0.148" 2-1/2"

Option 3 H8 Twist Strap With Each End

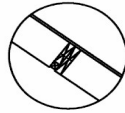
- A. 1 0.148" 1-1/2"



Flip Rail Connections

Tension = 0 lbs
Shear = 0 lbs

Shear Connection



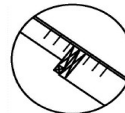
Attach Rail to Top Chord With One of the Following

- A. 0 0.131" x 3" Nails
- B. 0 0.148" x 3" Nails
- C. 0 0.162" x 3" Nails

Attach Rail to To Rail with One Of the Following in Each Truss Bay

- A. 0 0.131" x 3" Nails
- B. 0 0.148" x 3" Nails
- C. 0 0.162" x 3" Nails

Tension Connections

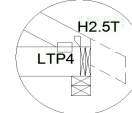


Lap 7/16" 24/16 APA OSB Across Flip Rail and Attach Each Truss Chord With

- A. 0 0.131" x 3" Nails
- B. 0 0.148" x 3" Nails
- C. 0 0.162" x 3" Nails

Heel Connection

Compression = 83 lbs
Tension = 76 lbs

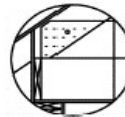


No Gusset

Attach LTP4 and H2.5T To One Side OR

- 1 #8 x 3" Toe-Screws

Gusset Connection



Top Chord

(1) Ply 7/16" 24/16 APA OSB Both Sides

Option 1 (1) 1/2" Bolt Plus One Of the Following

- A. 0 0.131" x 3" Nails
- B. 0 0.148" x 3" Nails
- C. 0 0.162" x 3" Nails

- D. 0 7/16" x 1-1/2" x 16 Gage Staple

Bottom Chord

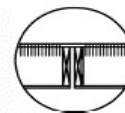
(1) Ply 7/16" 24/16 APA OSB Both Sides

- A. 2 0.131" x 3" Nails
- B. 1 0.148" x 3" Nails
- C. 1 0.162" x 3" Nails

- D. 2 7/16" x 1-1/2" x 16 Gage Staple

Marriage Line Connection

Tension = 0 lbs



Lap 23/32" 48/24 APA Sheathing Across Marriage Line - (2' Minimum Width) With One Of the Following Each End

- A. 0 0.131" x 3" Nails
- B. 0 0.148" x 3" Nails
- C. 0 0.162" x 3" Nails

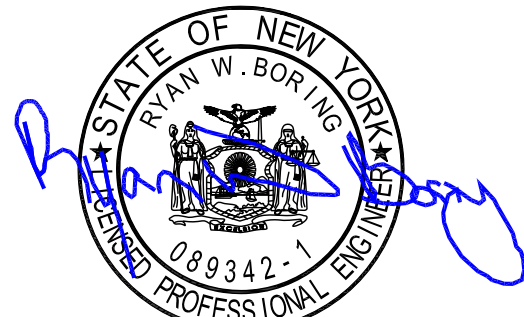
Strap Across Marriage Line With one Of The Following Each End

Option 1 CS18 Strap with One Of the Following Each End

- A. 0 0.131" x 2-1/2" Nails
- B. 0 0.148" x 2-1/2" Nails

Option 2 CS22 Strap with One Of the Following Each End

- A. 0 0.148" x 2-1/2" Nails
- B. 0 0.162" x 2-1/2" Nails



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