

BASIC BUILDING SPECIFICATIONS:

THIS STRUCTURE HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS SHOWN ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM OR REMOVAL OF ANY COMPONENT PARTS, OR THE ADDITION OF OTHER CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE AND DIRECTION OF REGISTERED ARCHITECT, CIVIL OR STRUCTURAL ENGINEER.

THIS METAL BUILDING IS DESIGNED WITH DESIGN PRACTICES WHICH ARE BASED ON PERTINENT PROCEDURES, AND RECOMMENDATIONS OF THE FOLLOWING ORGANIZATIONS AND CODES, AND ACCEPTED PRACTICES IN THE LOW RISE METAL AND AGRICULTURAL BUILDING INDUSTRY.

AMERICAN INSTITUTE OF STEEL CONSTRUCTION
SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS 9TH. EDITION.

AMERICAN IRON AND STEEL INSTITUTE
SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS

INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
"UNIFORM BUILDING CODE"

AMERICAN WELDING SOCIETY
"STRUCTURAL WELDING CODE"

METAL BUILDING MANUFACTURERS ASSOCIATION
"METAL BUILDING SYSTEMS MANUAL"

HIGH STRENGTH BOLTS AND THEIR INSTALLATION SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A-325 AND ARE DESIGNED AS BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN THE SHEAR PLANE. TIGHTENING OF THESE BOLTS IS RECOMMENDED BY THE TURN-OF-NUT METHOD, PER A.I.S.C. SPECIFICATION FOR STRUCTURAL JOINTS.

SHOP AND FIELD INSPECTIONS AND ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR OR OWNER.

STEEL NOTES:

- 1.) ALL CONSTRUCTION TO COMPLY WITH THE LATEST EDITION OF AISC.
- 2.) ALL MACHINE BOLTS TO COMPLY WITH ASTM A-307/A-325.
- 3.) ALL HOT ROLLED OR COLD ROLLED SHEET AND STRIP USED IN FABRICATION OF COLD FORMED STRUCTURAL MEMBERS SHALL HAVE A MINIMUM YIELD STRENGTH OF 55 K.S.I.
- 4.) ALL SHOP CONNECTIONS SHALL BE WELDED IN ACCORDANCE WITH A.W.S. STRUCTURAL WELDING CODE.
- 5.) ALL FIELD WELDING IS TO BE PERFORMED BY AN A.W.S. CERTIFIED WELDER USING E70X ELECTRODES.
- 6.) ALL STRUCTURAL STEEL TO COMPLY WITH A.S.T.M. DUAL SPECIFICATION (Fy=50 K.S.I.)

DESIGN CRITERIA:

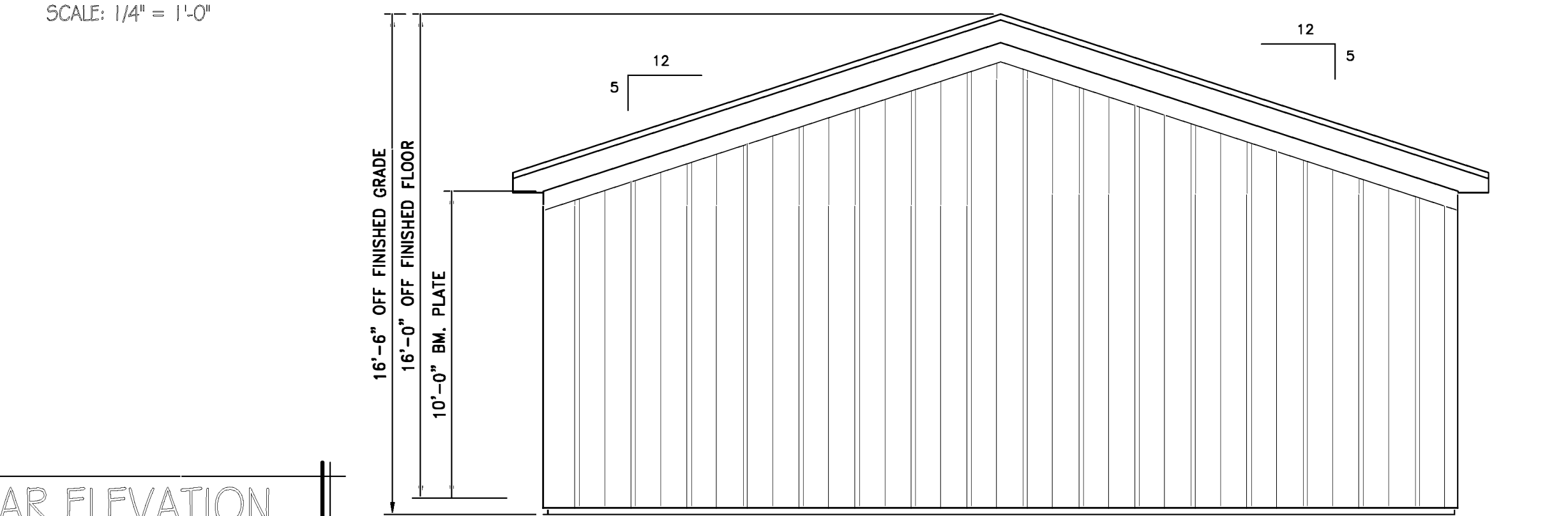
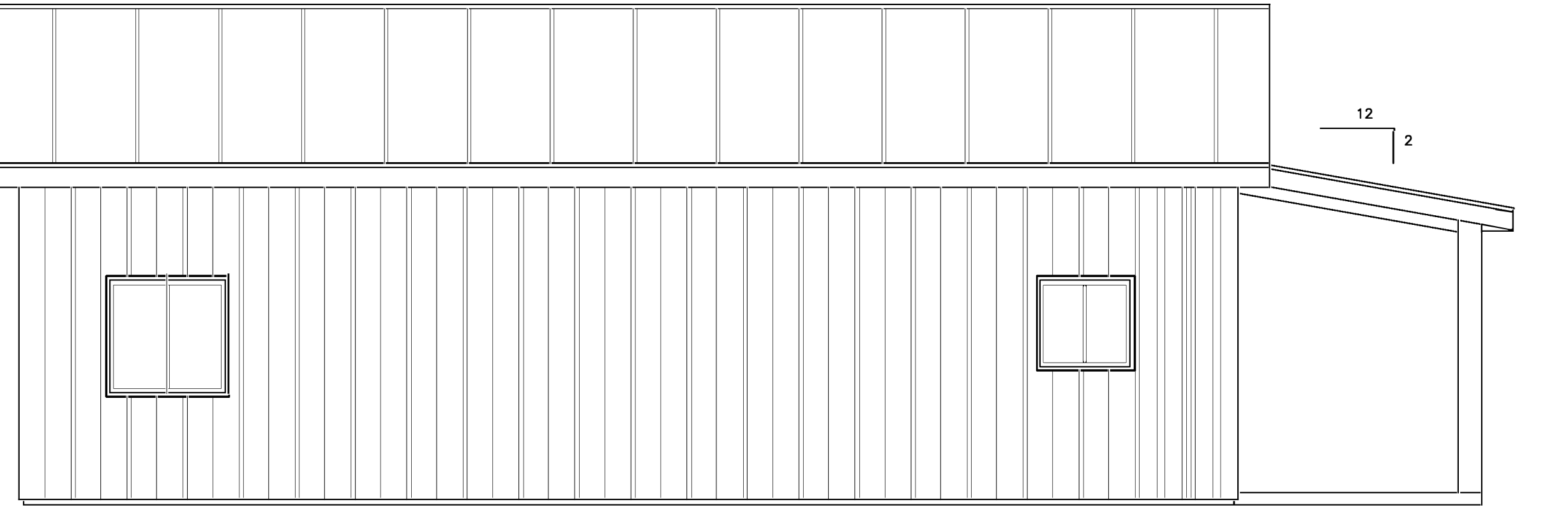
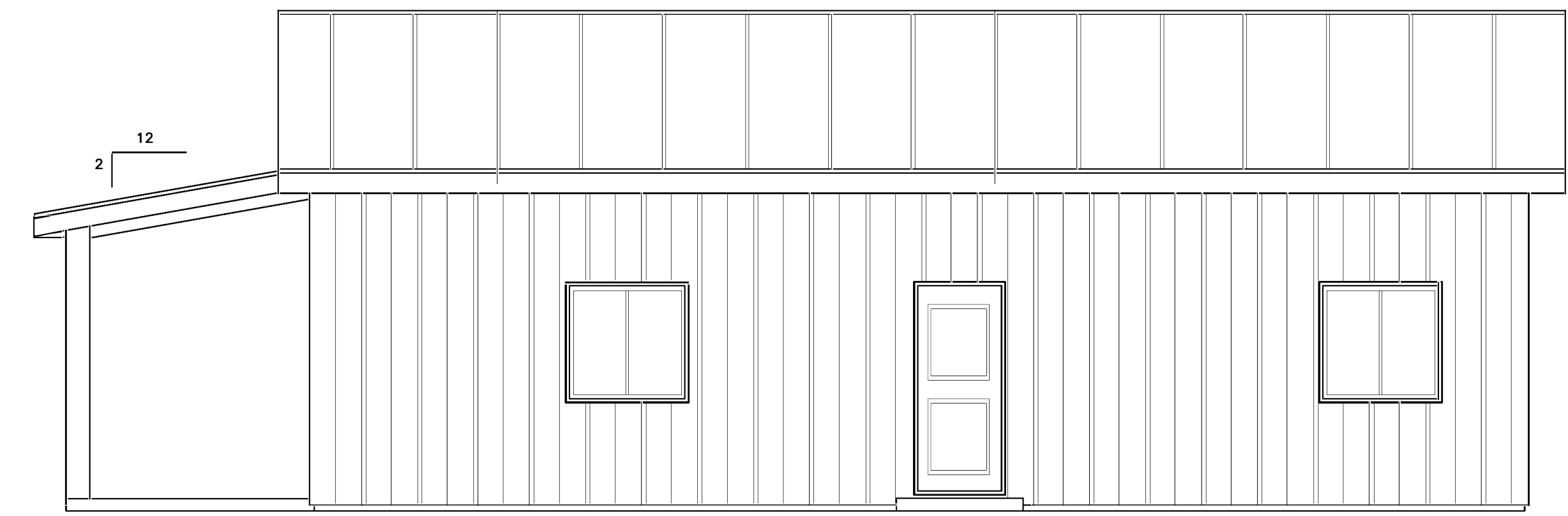
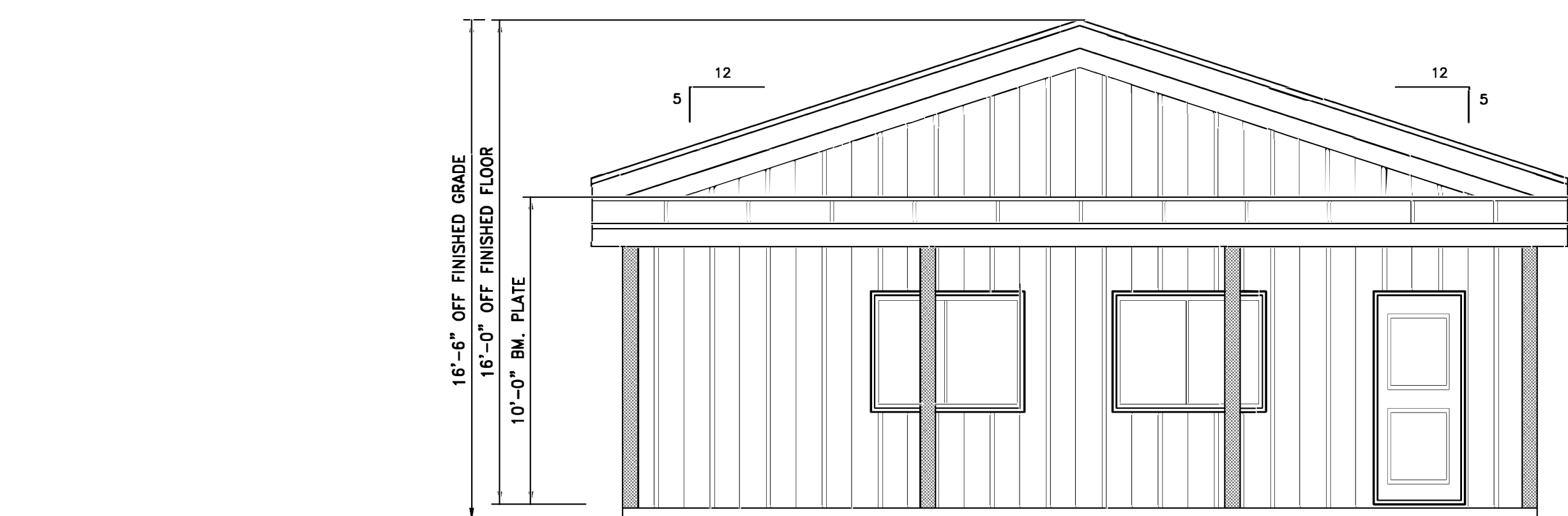
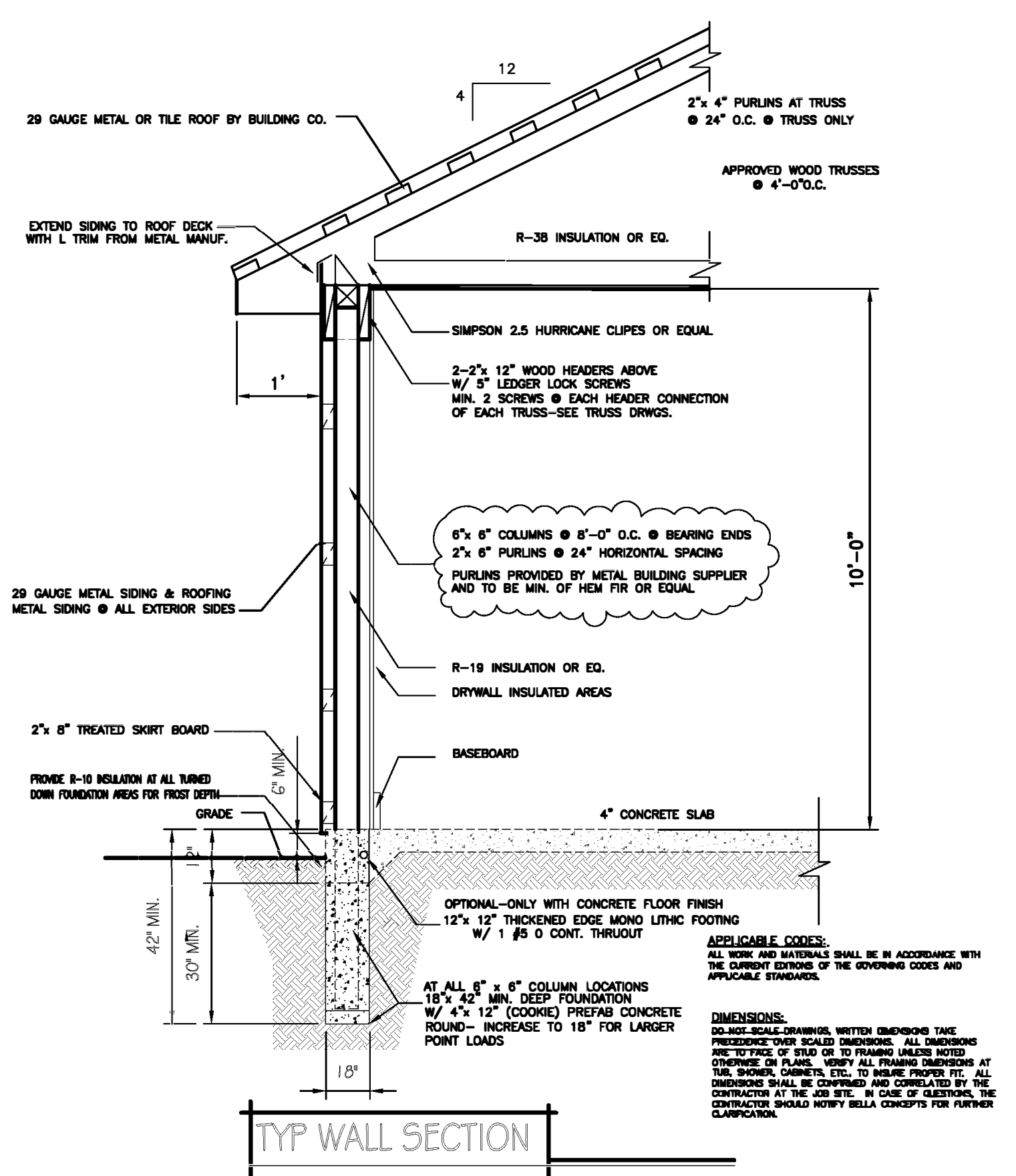
ROOF DEAD LOAD: 3 PSF
COLLATERAL LOAD: 20,000 PSF
ROOF LIVE LOAD: 35 PSF
BASIC WIND SPEED: 115 MPH
SEISMIC ZONE: D

IMPORTANCE FACTORS:

WIND LOAD: 1.00
SNOW LOAD: 1.00
SEISMIC LOAD: 1.00

THE DESIGN LOADS AND COMBINATIONS ARE APPLIED IN ACCORDANCE WITH FOLLOWING BUILDING CODE (IBC 18) NOTES:

- 1.) ROOF DESIGN IS BASED ON THE LARGER ROOF LIVE LOAD OR SNOW LOAD.
- 2.) THIS PROJECT IS DESIGNED AS "CLOSED" ACCESSORIES (DOORS, WINDOWS, ETC.) BY OTHERS MUST BE DESIGNED AS "COMPONENTS AND CLADDING" IN ACCORDANCE TO BE SPECIFIED WIND PROVISIONS OF THE REFERENCED BUILDING CODE.



GENERAL NOTES

- 1.) DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- 2.) CONTRACTOR SHALL VERIFY DIMENSIONS OF ANY CONTACTS OR CONDITIONS PRIOR TO PROCEEDING WITH WORK.
- 3.) CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS IN THE FIELD.
- 4.) ALL STRUCTURAL LIMBS SHALL HAVE THE FOLLOWING MIN. VALUES UNLESS NOTED: SOUTHERN PINE, 10-1200 C-15.
- 5.) ALL FOOTINGS, FOUNDATIONS, SLABS SHALL BEAR ON NATURAL OR COMPACTED SOIL, HAVING A MIN. BEARING OF 3000 P.S.F. AS DETERMINED AND VERIFIED BY A REGISTERED TESTING LABORATORY.
- 6.) ALL CONSTRUCTION SHALL BE PERFORMED IN A GOOD WORKMAN LIKE MANNER IN ACCORDANCE WITH ALL CODES, REGULATIONS, ORDINANCES AND RESTRICTIONS IMPING JURISDICTION.
- 7.) ALL REVISIONS AND CHANGE ORDERS SHALL BE RECORDED PRIOR TO PLACING FILL ORT. FOUNDATION SHALL BEAR ON CLEAN FILL COMPACTED IN LAYERS OF NOT MORE THAN 12" IN DEPTH AND TO BEK DENSITY AS PER A.S.T.M. PROCTOR TEST OR MODIFIED PROCTOR TEST.
- 8.) FOOTINGS SHALL HAVE BEEN DESIGNED FOR A SOIL BEARING PRESSURE OF 3,000 P.S.F. SOIL BORINGS MUST BE MADE BY A TESTING LABORATORY TO DETERMINE THE ASSUMED SOIL BEARING PRESSURE.
- 9.) CONCRETE SHALL HAVE A SLUMP OF 3" MAX. AND A MIN. COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS:
FOUNDATION AND SLAB: 4000 P.S.F.
CONCRETE AND WEIGHT LAMP P.S.F.
CONCRETE COVER FOR ALL REINFORC IN PLACE CONCRETE SHALL BE AS FOLLOWS:
FOUNDATION: 2"
SLAB: 1"
CHANGING: 1"
NOTE: REINFORCEMENT SHALL BE USED IN LESS OF 4" #7/8'S, 10" #8'S
- 10.) REINFORCED STEEL SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A6-15 SPECIFICATIONS FOR NEW DEFORMED BARS AND A6-15 SPECIFICATIONS FOR A MIN. YIELD STRENGTH OF 60,000 P.S.I. IT SHALL BE STEEL FABRICATED AND WELDED AS RECOMMENDED BY A.C.I.
- 11.) WELDED WIRE MESH (W.M.) SHALL CONFORM TO A.S.T.M. A-105, WIRE 3/8" ON EACH SIDE OF BEARING WALLS AND 30" PLUS WIDTH OF FOOTING AROUND PERIMETER OF MONOLITHIC FOOTING.
- 12.) CONCRETE MASONRY UNITS SHALL BE LAMP BEARING TYPE CONFORMING TO A.S.T.M. C-90 MORTAR SHALL CONFORM TO A.S.T.M. C-270 TYPE II.
- 13.) ALL ROOF JOISTS, TRUSSES, OUTLETS, BEAMS AND SIDERS SHALL BE SECURED WITH APPROVED GALVANIZED METAL TIE CLIPS ANCHORED TO THE TRUSS OR BEARING PARTITION.
- 14.) ALL ROOF IN CONTACT WITH CONCRETE SHALL BE PRESURE TREATED.
- 15.) PROVIDE BEAMS AND BEARD TRUSS SHOP DRAWINGS AND CALCULATIONS FOR DESIGNERS APPROVAL, PRIOR TO FABRICATION OF TRUSSES. PROVIDE SHEET CALCULATIONS FOR ALL TRUSSES AND SIDERS.
- 16.) USE GALE WALS ONLY FOR EXTERIOR WOOD WORK.
- 17.) ALL STOOD BATTERY CHARGES SHALL BE ALLOWED 24 HOURS DRYING PERIOD. (M.I.)
- 18.) SUBSTITUTIONS OF SPECIFIED PRODUCTS AND OR MATERIALS BY WRITTEN REQUEST TO AND SUBJECT TO APPROVAL BY OWNER/DESIGNER.
- 19.) WINDOW SIZES BY CONTRACTOR.
- 20.) PERFORM ALL WORK IN ACCORDANCE WITH ALL CODES AND ORDINANCES.

DISCREPANCIES MAY EXIST BETWEEN THE PLANS OR BETWEEN THE PLANS AND FIELD CONDITIONS. PLEASE REVIEW THE ENTIRE SET OF CONSTRUCTION PLANS AND NOTIFY THE DESIGNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO DO SO WILL PLACE THE ENTIRE RESPONSIBILITY FOR RESOLUTION UPON THE CONTRACTOR. © 2023/02/23

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2023 ADVANCED DESIGN BUILD, LLC
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A DETACHED BARN
for
THE MITCHELL RES DENCE (BARN) - DA-MINIUM
KETCHUM ROAD (WALSBERG) COLORADO
LOT 30 PHASE #1 (MAJORS RANCH)

DATE: 4-11-2023
REDLINES: 4-11-2023

COLORADO REGISTERED PROFESSIONAL ENGINEER
BRADLEY HUDSON
ERMEL
19759
Professional Seal

SCALE: AS NOTED
DRAWN BY: D.WEHRICH
CHECKED BY: D.WEHRICH
DATE: APRIL 2023
JOB #

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