CIMARRON ENGINEERING
CIMARRON ENGINEERING
JONATHAN BATSON, P.E. 970-318-6026
PO BOX 1421
RIDGWAY CO, 81432

JOB #22010
UHL MONITOR BARN
40343 CR 68
ROUTT COUNTY, COLORADO

8/1/2023

PERMIT

COLORADO LICENSED
JONATHAN BATSON
58241
8/1/2023
PROFESSIONAL ENGINEER

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GENERAL NOTES

1) ENGINEER SHALL REPRESENT CIMARRON ENGINEERING WHENEVER REFERENCED WITHIN THE STRUCTURAL PLANS.
2) OTHER OR OTHERS SHALL REPRESENT ANY ENTITY EXCEPT FOR CIMARRON ENGINEERING.
3) IF THERE IS ANY PORTION OF THE PLANS WHERE THE DESIGN IS NOT SPECIFICALLY NOTED THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR GUIDANCE.
4) THE SCOPE OF THE ENGINEERS SEAL IS ONLY APPLICABLE TO THE STRUCTURAL PORTIONS OF THIS PARTICULAR SET OF DRAWINGS AND SHALL NOT BE COPIED/USED FOR ANY OTHER STRUCTURE.
5) THE ENGINEER'S STRUCTURAL PLANS ARE BASED ON THE ARCHITECTURAL PLANS AND THE GEOTECHNICAL REPORT 22-12786 Uhl Property CR 68 - S&FI Report DATED NOV, 18 2022 FOR THE STRUCTURE AS PROVIDED BY OTHERS. THESE ARCHITECTURAL PLANS SHALL ACCOMPANY THE STRUCTURAL PLANS DURING CONSTRUCTION.
6) ASPECTS OF THE PLAN COVERING OTHER DISCIPLINES OF THE DESIGN, OR CONSTRUCTION METHODS ARE NOT COVERED UNDER THE SEAL OF THE ENGINEER AND SHALL BE THE RESPONSIBILITY OF OTHERS.
7) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE CONSTRUCTION IS IN ACCORDANCE WITH THE LATEST VERSION OF THE IRC OR IBC AS WELL AS CITY, COUNTY, LOCAL, AND STATE ORDINANCES.
8) IF A DISCREPANCY EXIST BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN THE CONSTRUCTION.
9) CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER WITH ANY DISCREPANCIES.
10) THE STRUCTURAL PLANS ARE DESIGNED BASED ON THE COMPLETED STRUCTURE AND SHOULD BE BRACED APPROPRIATELY THROUGHOUT CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY BRACE THE STRUCTURE DURING THE CONSTRUCTION PROCESS.
11) THE STRUCTURAL PLANS ARE BASED ON THE DESIGN CRITERIA MENTIONED WITHIN THESE PLANS. THE ENGINEER IS NOT RESPONSIBLE FOR LOADING CONDITIONS EXCEEDING THE DESIGN CRITERIA CREATING DAMAGE TO THE STRUCTURE BY
12) THE ENGINEER IS NOT RESPONSIBLE FOR DAMAGE TO THE STRUCTURE CAUSED BY NATURAL DISASTERS CREATING LOADING CONDITIONS THAT EXCEED THE DESIGN CRITERIA OUTLINED WITHIN THESE PLANS.
13) THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THESE PLANS WITHOUT CONSULTATION AND WRITTEN APPROVAL BY THE ENGINEER.

You have not listed the approved submitted soils report in the design information. Please state you have reviewed report 22-12786 dated 11/18/2022, also you should liste out the bearing capacities from this report stating your design is in accordance with the values listed. Maximum 2500 PSF and minimum deadload of 600 PSF.
Also you list ground snow load values, but you did not provide your designed roof snow load value, please list this.

DESIGN CRITERIA OF THE STRUCTURE

1) APPLICABLE CODES = 2018 IRC, 2018 IBC, ASCE 07-16, ASSOCIATED STATE / COUNTY REGULATIONS AND ADDITIONAL CODES MENTIONED WITHIN THE STRUCTURAL NOTES.
2) ASSUMED SITE ELEVATION = ~7000 FT
3) FROST PROTECTION REQUIRED = 48 IN
4) RISK CATEGORY = II
5) SEISMIC DESIGN:
   - SITE CLASS = E
   - S_{DS} = 0.364 G
   - CATEGORY = C
6) SNOW DESIGN:
   - GROUND SNOW LOAD = 89 PSF
7) WIND DESIGN:
   - WIND SPEED = 115 MPH
   - EXPOSURE = C
8) DESIGN LOADS:
   - ROOF DEAD LOAD = 15 PSF
   - ROOF LIVE LOAD = 20 PSF
   - CEILING DEAD LOAD = 5 PSF
   - FLOOR DEAD LOAD = 15 PSF
   - FLOOR LIVE LOAD = 40 PSF
   - PERIMETER WALL DEAD LOAD = 10 PSF

REINFORCING STEEL

1) REINFORCING STEEL BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 EXCEPT TIES, STIRRUPS AND REINFORCING BARS IN NON-STRUCTURAL CONCRETE SUCH AS SLABS ON GRADE, WHICH MAY BE GRADE 40, UNLESS NOTED OTHERWISE.
2) ALL BARS SHALL BE FREE OF DIRT, RUST, GREASE, OIL OR ANYTHING THAT WOULD INHIBIT IT'S BOND W/ THE CONCRETE.
3) BARS SHALL BE CONTINUOUS AROUND CORNERS AND ALL SPLICES SHALL BE LAPPED 24" OR 48 BAR DIAMETERS WHICHEVER IS GREATER.
4) ALL BENDS SHALL BE MADE COLD.
5) UNLESS OTHERWISE NOTED IN THE STRUCTURAL PLANS, ALL CAST-IN-PLACE CONCRETE SHALL HAVE MINIMUM COVER IN CONFORMANCE WITH ACI318-19 SECTION 20.5.1.3 AS FOLLOWS:
   - CAST AGAINST AND PERMANENTLY IN CONTACT W/ GROUND: 3"
   - EXPOSED TO WEATHER OR IN CONTACT W/ GROUND: 2"
   - NOT EXPOSED TO WEATHER OR IN CONTACT W/ GROUND: 1½"
6) ALL REINFORCEMENT SHALL BE HELD SECURELY IN PLACE WHILE CONCRETE IS BEING POURED.

Please provide us with structural calculations that were used from the building plans to transfer all vertical and lateral loads to the foundation plans.

STRUCTURAL STEEL

1) ALL STEEL SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE LATEST AISC SPECIFICATION.
2) ALL STEEL COMPONENTS SHALL COMPLY WITH THE FOLLOWING UNLESS OTHERWISE NOTED IN THE DETAILED PLANS:
   W SECTIONS - ASTM A992 (FY = 50 KSI)
   RECTANGULAR HSS - ASTM A500, GRADE B (Fy = 46 KSI)
   ROUND HSS - ASTM 500, GRADE B (Fy = 42 KSI)
   ALL OTHER STRUCTURAL SHAPES AND PLATES - ASTM A36 (Fy = 36 KSI)
   BOLTS - ASTM A325
   NUTS - ASTM A563
   WASHERS - ASTM F436
   ANCHOR RODS - ASTM F1554 GRADE 36
3) ALL ANCHORAGE COMPONENTS INCLUDING ANCHOR RODS, BOLTS AND WASHERS SHALL BE HOT DIPPED GALVANIZE
4) ALL WELDING SHALL BE CONDUCTED BY A CERTIFIED WELDER QUALIFIED BY THE AMERICAN WELDING SOCIETY STANDARD QUALIFICATION PROCEDURE.
5) ALL STRUCTURAL WELDING SHALL BE CONDUCTED WITH E-70XX ELECTRODES.
6) MINIMUM WELD IS $\frac{3}{16}$" FILLET, CONTINUOUS UNLESS OTHERWISE NOTED.
7) ALL HOLES SHOWN IN STEEL MEMBERS WITHIN THE PLANS SHALL BE $\frac{1}{16}$" LARGER IN DIAMETER THAN THE BOLT SIZE SPECIFIED.

CONCRETE

1) ALL CONCRETE PRACTICES SHALL CONFORM WITH THE LATEST VERSION OF ACI-318 WITH THE DETAILS CONFORMING TO THE LATEST VERSION OF ACI-315. ALL ACI REQUIREMENTS FOR HOT AND COLD WEATHERING CONCRETING SHALL BE ADHERED TO.
2) ALL CONCRETE SHALL DEVELOP 3500 PSI COMPRESSIVE STRENGTH 28 DAYS FROM POUR.
3) ALL CONCRETE SHALL USE TYPE II PORTLAND CEMENT. FLY ASH MAY BE USED AS A SUBSTITUTE W/ ENGINEER APPROVAL..
4) FOUNDATION SILLS SHALL BE AT LEAST 6" ABOVE GRADE AND SHALL BE PRESSURE TREATED WOOD.
5) PIPES MUST BE IN SLEEVES WHEN PASSING THROUGH CONCRETE.
6) ALL FOOTING SILLS SHALL FULLY REST ON THE FOOTING WALL OR SLAB AND SHALL BE ATTACHED W/ $\frac{5}{8}$"x10" ANCHOR BOLTS EMBEDDED AT A MINIMUM OF 7" INTO THE FOUNDATION CONCRETE AND SECURED W/ A NUT AND WASHER. SILLS SHALL BE ANCHORED NOT MORE THAN 48" O.C. AND NOT MORE THAN 12" FROM A BREAK IN SILLS.
7) ANCHOR BOLTS MUST BE LOCATED IN MIDDLE THIRD OF THE WIDTH OF THE SILL PLATE.
8) ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
9) INTERIOR NON BEARING WALLS MAY BE SECURED WITH WITH 3"x0.143" DIA. FASTENERS AND WASHER ATTACHED NOT MORE THAN 3' O.C.
10) ALL SLABS SHALL BE SAWCUT NOT MORE THAN 10' INTERVALS EACH WAY.
11) ALL CONCRETE FOOTINGS AND WALL POURS SHALL BE MECHANICALLY VIBRATED.
12) ALL EXPOSED CONCRETE SHALL HAVE AN AIR ENTRAINING AGENT.
13) ALL DIMENSIONS SHALL BE FIELD VERIFIED FOR LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.
14) ALL SILL PLATE ANCHOR BOLTS AND TIE-DOWNS SHALL BE HELD SECURELY IN PLACE BEFORE POURING CONCRETE.
15) ANCHOR BOLTS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE WIDTH OF THE SILL PLATE.

FOUNDATION NOTES

1) THE ENGINEER SHALL BE NOTIFIED A MIN. OF 48 HOURS IN ADVANCE FOR INSPECTION OF THE FOUNDATION WHEN ALL FORM WORK IS IN PLACE W/ REBAR TIED AND READY TO POUR.
2) THE FOUNDATION SHALL BEAR ON NATIVE UNDISTURBED SOIL, BEDROCK, OR STRUCTURAL FILL PER THE PLANS.
3) THE BOTTOM OF THE FOUNDATION EXCAVATIONS SHOULD BE THOROUGHLY CLEANED AND OBSERVED WHEN EXCAVATED AND ANY LOOSE OR DISTURBED MATERIAL EXPOSED IN THE FOUNDATION EXCAVATION SHOULD BE REMOVED OR COMPACTED PRIOR TO PLACING FOUNDATION CONCRETE.
4) UNLESS OTHERWISE NOTED IN THE PLANS STRUCTURAL FILL MATERIAL SHALL BE PLACED IN UNIFORM 6" THICK LOOSE LIFTS AND MECHANICALLY COMPACTED TO 90% OF THE MATERIALS MOISTURE CONTENT-DRY DENSITY (PROCTOR), IN ACCORDANCE WITH ASTM D1557.
5) ALL GRADING SHALL SLOPE AT AN 8% MIN. AWAY FROM THE FOUNDATION FOR THE FIRST 15' AROUND THE PERIMETER OF THE STRUCTURE. AT NO POINT SHALL WATER BE ALLOWED TO POOL NEAR THE FOUNDATION.
6) NO BACKFILLING SHOULD BE DONE AGAINST FOUNDATION AND RETAINING WALLS UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS DESIGN STRENGTH. PROVIDE BRACING FOR WALLS SUSTAINING MORE THAN 3 FT OF EARTH PRESSURE. THIS BRACING SHALL REMAIN IN PLACE UNTIL ALL SLABS AND BEAMS FRAMING INTO WALL HAVE BEEN PLACED AND SET.
7) IN NO CASE SHALL BULLDOZERS OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 5 FEET FROM ANY FOUNDATION WALL. IF IT IS NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THAN 8 FEET TO THE WALL, THE CONTRACTOR SHALL BE THE SOLE RESPONSIBLE PARTY AND AT THEIR OWN EXPENSE SHALL PROVIDE ADEQUATE SUPPORTS OR BRACE THE WALL TO WITHSTAND THE ADDITIONAL LOADS SUPERIMPOSED FROM SUCH EQUIPMENT.
8) IRRIGATION PIPING SHALL NOT BE INSTALLED WITHIN 10 FEET OF THE FOUNDATION. POSSIBLE LEAKAGE OF IRRIGATION PIPING WILL CAUSE SOIL SUPPORTING THE FOUNDATION TO BECOME THOROUGHLY SATURATED CREATING THE POTENTIAL FOR EXTENSIVE STRUCTURAL DAMAGE FROM SETTLEMENT/HEAVING. THE HOMEOWNER TAKES FULL RESPONSIBILITY FOR CREATING PROPER OFFSETS WITH THE IRRIGATION PIPING AND THE FOUNDATION.
9) UNLESS OTHERWISE NOTED ALL FOOTINGS SHALL HAVE A SUBSURFACE DRAIN SYSTEM THAT PROMOTES WATER TO FLOW AWAY FROM THE FOUNDATION ADHERING TO THE FOLLOWING DETAILS.
   - DRAIN PIPE SHALL BE PERFORATED 4 INCH RIGID PVC PIPE SLOPED TO DAYLIGHT AT A MINIMUM OF 1% WITH THE PERFORATIONS ORIENTED DOWNWARD CREATING A TROUGH TO DIRECT THE WATER AWAY FROM THE STRUCTURE.
   - GRAVEL SHALL SURROUND THE PIPE WITH A MINIMUM OF 4 INCHES AROUND THE PIPE ON ALL SIDES. THE GRAVEL SHALL BE 2 INCH MINUS AGGREGATE WITH LESS THAN 50% PASSING THE #4 SIEVE AND LESS THAN 2% PASSING THE #200 SIEVE.
   - FILTER FABRIC, MIRAFI 140N OR EQUIVALENT, SHALL BE USED TO PROTECT THE GRAVEL AND DRAIN PIPE BY COMPLETELY WRAPPING THE GRAVEL, WITH DRAIN PIPE, IN A BURRITO FASHION ENSURING FINES/DIRT DO NOT CLOG THE PORES OF THE GRAVEL.
10) FOUNDATION WALLS THAT RETAIN EARTH AND ENCLOSE INTERIOR SPACES AND FLOORS BELOW GRADE SHALL BE DAMP PROOFED OR WATERPROOFED FROM THE TOP OF THE FOOTING TO FINISHED GRADE PER THE IRC 2018 SECTIONS R406.1 / R406.2. ICF WALLS SHALL NOT BE DAMP PROOFED / WATERPROOFED WITH ORGANIC-SOLVENT-BASED PRODUCTS SUCH AS HYDROCARBONS, CHLORINATED HYDROCARBONS, AND KETONES AND ESTERS. USE OF PLASTIC ROOFING CEMENTS, ACRYLIC COATINGS, LATEX COATINGS, MORTARS AND PARGINGS TO SEAL ICF WALLS IS PERMITTED.
11) IF THE DESIGN SPECIFIES A FROST FREE FOUNDATION THE FOLLOWING APPLIES:
   - THE OWNER OF THE STRUCTURE IS RESPONSIBLE FOR KEEPING THE MONTHLY MEAN TEMPERATURE OF THE STRUCTURE ABOVE 64°F PER THE 2018 IRC SECTION R403.3.
   - ALL INSULATION TYPES AND R-VALUES SHALL BE IN ACCORDANCE WITH TABLE R403.3(1) OF THE 2018 IRC.

TIMBER FRAMING

1) ALL LUMBER/TIMBER IS ASSUMED TO BE USED UNDER DRY SERVICE CONDITIONS SUCH AS IN MOST COVERED STRUCTURES. WHERE THE MOISTURE CONTENT IN USE WILL BE A MAXIMUM OF 19%, REGARDLESS OF THE MOISTURE CONTENT AT THE TIME OF MANUFACTURE. IF THE LUMBER EXCEEDS 19% MOISTURE CONTENT THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED.
2) ALL TIMBERS SHALL BE IDENTIFIED BY THE GRADE MARK OF, OR CERTIFICATE OF INSPECTION ISSUED BY, A LUMBER GRADING OR INSPECTION BUREAU OR AGENCY RECOGNIZED AS BEING COMPETENT PER AWC-NDS2018-SUPPLEMENT-171027.
3) MORTISE CUTS USED FOR KNIFE PLATE EMBEDMENT SHALL HAVE A MINIMUM $\frac{1}{4}$" OFFSET FROM THE EDGE OF THE METAL TO PREVENT SPLITTING OF THE WOOD.
4) UNLESS OTHERWISE NOTED IN THE DRAWINGS WOOD PEGS USED AS FASTENERS IN CONNECTIONS SHALL BE 1" IN DIAMETER AND FABRICATED FROM CLEAR, STRAIGHT-GRAIN, WHITE OAK STOCK ACCORDING TO PROVISION OF ASTM D8023 (REF.7)
5) THE PEG DIAMETER SHALL NOT EXCEED TWO-THIRDS THE THICKNESS OF THE TENON THAT IS JOINS TO THE MORTISE.
6) LOADS SHALL ACT PERPENDICULAR TO THE PEG.
7) PEG END / EDGE DISTANCES AND SPACING BETWEEN PEGS SHALL CONFORM TO THE FOLLOWING: (DISTANCES ARE MEASURED FROM THE CENTER OF THE PEG TO THE END / EDGE)
   - END DISTANCE PARALLEL TO THE GRAIN SHALL BE 4D"
   - EDGE DISTANCE PERPENDICULAR TO THE GRAIN SHALL BE 2.5D"
   - PEGS SHALL BE SPACED 4D" FROM EACH OTHER
8) THE FACES OF THE TENON AND MORTISE SHALL BE IN CONTACT WITH EACH OTHER.
9) TENONS SHALL NOT EXCEED ONE-THIRD THE BREADTH OF THE FACE OF THE MORTISED MEMBER RECEIVING THE TENON.
10) MORTISE SIDEWALLS SHALL BE AT LEAST THE WIDTH OF THE MORTISE.
11) MORTISE AND TENON CONNECTIONS WILL BE DETAILED AS - M&T A/B/C - WHERE: A = TENON WIDTH (IN); B = TENON LENGTH (IN); C = HOUSING DEPTH (IN); HSG = HOUSING

ENGINEERED WOOD PRODUCTS

1) WEYERHAEUSER AND BOISE CASCADE PRODUCTS CAN BE USED INTERCHANGEABLY AS LONG AS APPROVED BY THE ENGINEER.
2) WEYERHAEUSER APPROVED PRODUCTS AS NOTED IN THE PLANS:
   - TJI JOIST OR TRUS JOIST
   - TIMBERSTRAND, LAMINATED STRAND LUMBER (LSL) FOR BEAMS, FRAMING AND RIMBOARD
   - PARALLAM, PARALLEL STRAND LUMBER (PSL) FOR BEAMS AND COLUMNS
   - MICROLAM, LAMINATED VENEER LUMBER (LVL) FOR BEAMS AND HEADERS
3) BOISE CASCADE APPROVED PRODUCTS AS NOTED IN THE PLANS:
   - AJS OR BCI JOISTS
   - VERSA-LAM OR VERSA-STUD, LAMINATED VENEER LUMBER (LVL) FOR BEAMS, FRAMING, HEADERS AND RIMBOARD
   - GLULAM FOR BEAMS, HEADERS AND COLUMNS
4) FIELD CUTS WITHIN THE WEB OF AN ENGINEERED JOIST SHALL NEVER BE CUT WITHIN 6 INCHES HORIZONTALLY OR VERTICALLY FROM THE EDGE OF A WALL SUPPORTING THE ENGINEERED JOIST.
5) FIELD CUT HOLES LARGER THAN 1.5" ARE NOT ALLOWED IN THE CANTILEVER PORTION OF ANY ENGINEERED JOIST.
6) ALL ENGINEERED WOOD ELEMENTS SHALL BE FASTENED TO THE STRUCTURE IN ACCORDANCE W/ THE MANUFACTURER'S RECOMMENDATIONS.
7) A MINIMUM OF TWO #4 REBAR SHALL BE PLACE VERTICALLY (TOP TO BOTTOM) AT A MAXIMUM DISTANCE OF 12 INCHES FROM THE END, OR AT A BREAK, IN THE CONCRETE WALL.

MANUFACTURED LUMBER AND STRUCTURAL SHEATHING

1) ALL LUMBER/TIMBER IS ASSUMED TO BE USED UNDER DRY SERVICE CONDITIONS SUCH AS IN MOST COVERED STRUCTURES. WHERE THE MOISTURE CONTENT IN USE WILL BE A MAXIMUM OF 19%, REGARDLESS OF THE MOISTURE CONTENT AT THE TIME OF MANUFACTURE. IF THE LUMBER EXCEEDS 19% MOISTURE CONTENT THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED.
2) ALL SAWN LUMBER NOT SPECIFIED ON THE PLANS IS ASSUMED TO BE HEM-FIR (HF) #2 OR BETTER
3) ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED (PT).
4) ALL LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK OF, OR CERTIFICATE OF INSPECTION ISSUED BY, A LUMBER GRADING OR INSPECTION BUREAU OR AGENCY RECOGNIZED AS BEING COMPETENT PER AWC-NDS2018-SUPPLEMENT-171027.
5) ALL STRUCTURAL SHEATHING SHALL BE APA STRUCTURAL I GRADE PANELING INSTALLED W/ ALL EDGES OF THE PANELS FASTENED TO FRAMING MEMBERS ACCORDING TO THE SHEATHING AND FASTENING SCHEDULE PROVIDED WITHIN THESE PLANS.
6) THE BOTTOM PLATE OF ALL WALLS SHALL BE FASTENED WITH (2) 16D NAILS (0.131" DIA. X 3" LONG) @ 16" O.C. AND WHERE POSSIBLE INTO THE JOIST SUPPORTING THE FLOOR OR A SOLID MEMBER WHERE THE FULL LENGTH OF THE NAIL IS IN CONTACT.
7) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL CONNECTORS SPECIFIED IN THE PER MANUFACTURERS RECOMMENDATIONS. INSTALLATION OF HANGERS IS NOT THE RESPONSIBILITY OF THE ENGINEER.
8) ALL WOODEN BUILDING ELEMENTS SHALL BE FASTENED IN ACCORDANCE W/ THE FASTENING SCHEDULE NOTED IN TABLE 2304.10.1 OF THE 2018 IBC.
9) ALL CONNECTORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND REQUIRED FASTENERS.
10) ALL THRU-BOLT HOLES SHALL BE A MINIMUM OF $\frac{1}{16}$" TO A MAXIMUM OF $\frac{1}{8}$" LARGER THAN THE BOLT DIAMETER.
11) ALL DECK BEAM SPLICES MUST OCCUR OVER A COLUMN OR POST.

GENERAL SHEATHING AND FASTENING SCHEDULE[1,5,6]

BUILDING ELEMENT SHEATHING	TYPE OF FASTENER (NAIL SIZE)	MIN. PANEL SPAN RATING	NOM. PANEL THICKNESS (IN)	MATERIAL	FASTENER SPACING[2,3]	
					EDGE (IN O.C.)	FIELD (IN O.C.)
ROOF	8d	32/16	5/8	OSB	6	12
WALL	8d	24/16	7/16	OSB	6	12
WALL	6d[4]	---	5/8	GYPSUM BOARD	7	7
SUB-FLOOR	8d	48/24	3/4	OSB T&G	6	12

1) ALL WALL SHEATHING SHALL BE "BLOCKED" IN WHICH ALL EDGES OF THE PANELS ARE FASTENED TO FRAMING MEMBERS.
2) NAILS SHALL BE STAGGERED AT ADJOINING PANEL EDGES.
3) STANDARD FASTENER SPACING ARE SHOWN BUT THIS VALUE MAY VARY. CHECK THE STRUCTURAL PLAN FOR A VARIANCE IN THE SHEAR WALL FASTENER SPACING AT THE EDGES OF THE WALL PANELS.
4) COOLER OR WALLBOARD NAIL OR 0.12" NAIL x 1-3/4" LONG, MIN 3/8" HEAD
5) ALL SHEATHING SHALL BE INSTALLED WITH THE LONG SIDE OF SHEATHING GOING ACROSS THE BOARDS IN WHICH THE SHEATHING IS FASTENED TO.
6) UNLESS A MORE DETAILED SHEATHING WALL PLAN IS INCLUDED WITH THE STRUCTURAL DRAWINGS THIS GENERAL SHEATHING SCHEDULE SHALL BE FOLLOWED.

BUILT-UP COLUMNS AND FASTENING SCHEDULE

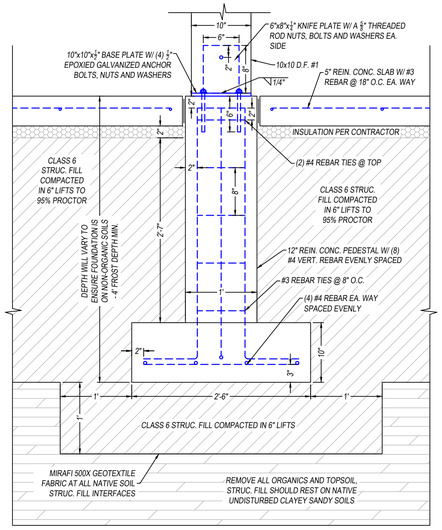
SAWN LUMBER SIZE	# OF LAMINATIONS	TYPE OF FASTENER (NAIL SIZE)	LONGITUDINAL ROWS OF NAILS	MAXIMUM VERTICAL NAIL SPACING	EDGE AND END MAXIMUM DISTANCES	
					EDGE (IN)	END (IN)
2x4	2	10d	1 (STAGGERED)	6	1	2.5
2x6	2	10d	2	6	1	2.5
2x4	3	30d	1 (STAGGERED)	8	1.5	3.5
2x6	3	30d	2	8	1.5	3.5

1) IF FURTHER CLARIFICATION IS NEEDED REFERENCE SECTION 15.3 OF THE AWC-NDS2018-171117 OR CONTACT THE ENGINEER.

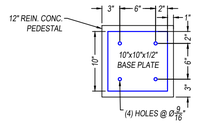
MINIMUM HEADER REQUIREMENTS[1]

HEADER WIDTH	STORIES	MIN. HEADER	MIN. KING STUDS	MIN. JACK (TRIMMER) STUDS
≤ 4'	1	(2) 2x6	1	1
6'		(2) 1 3/4" x 7 1/4" LVL	1[2]	2
8'		(2) 1 3/4" x 9 1/4" LVL	1[2]	2
10'		(2) 1 3/4" x 11 1/4" LVL	2[2]	2
≤ 4'	2	(2) 2x8	1	2
6'		(2) 1 3/4" x 9 1/4" LVL	1[2]	2
8'		(2) 1 3/4" x 11 1/4" LVL	1[2]	2
10'		(2) 1 3/4" x 11 1/4" LVL	2[2]	2

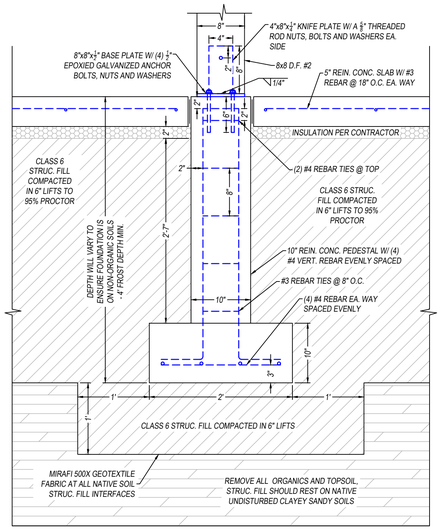
1) CALCULATED FROM A 24' ROOF SPAN AND 20' FLOOR SPAN. IF CONDITION DIFFER CONSULT ENGINEER.
2) IF STRUCTURE IS LOCATED IN EXPOSURE C ADD ONE TO THIS VALUE.



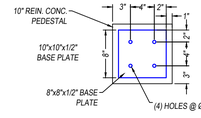
S1 / 2 DETAIL - 12"x12" PEDESTAL AND FOUNDATION SCALE 1"=1'



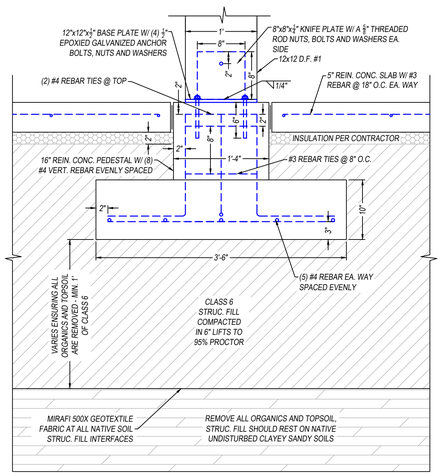
DETAIL - 12"x12" PEDESTAL BASE PLATE SCALE 1"=1'



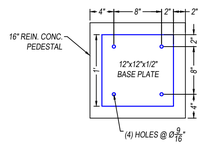
S1 / 3 DETAIL - 10"x10" PEDESTAL AND FOUNDATION SCALE 1"=1'



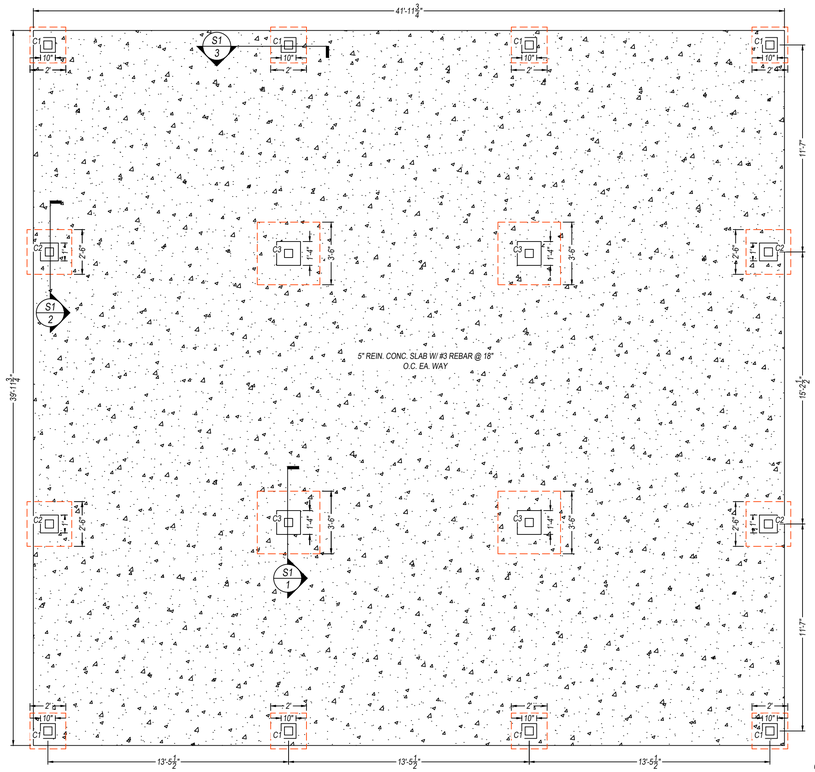
DETAIL - 10"x10" PEDESTAL BASE PLATE SCALE 1"=1'



S1 / 1 DETAIL - 16"x16" PEDESTAL AND FOUNDATION SCALE 1"=1'



DETAIL - 16"x16" PEDESTAL BASE PLATE SCALE 1"=1'



PLAN - MONITOR BARN SCALE 1/4"=1'

COLUMN SCHEDULE

#	DESCRIPTION
C1	8x8 D.F. #2
C2	10x10 D.F. #1
C3	12x12 D.F. #1
	ABOVE
	ABOVE AND BELOW
	BELOW

Reviewed for Code Compliance
08/11/2023

CIMARRON ENGINEERING

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S1