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Revisions:

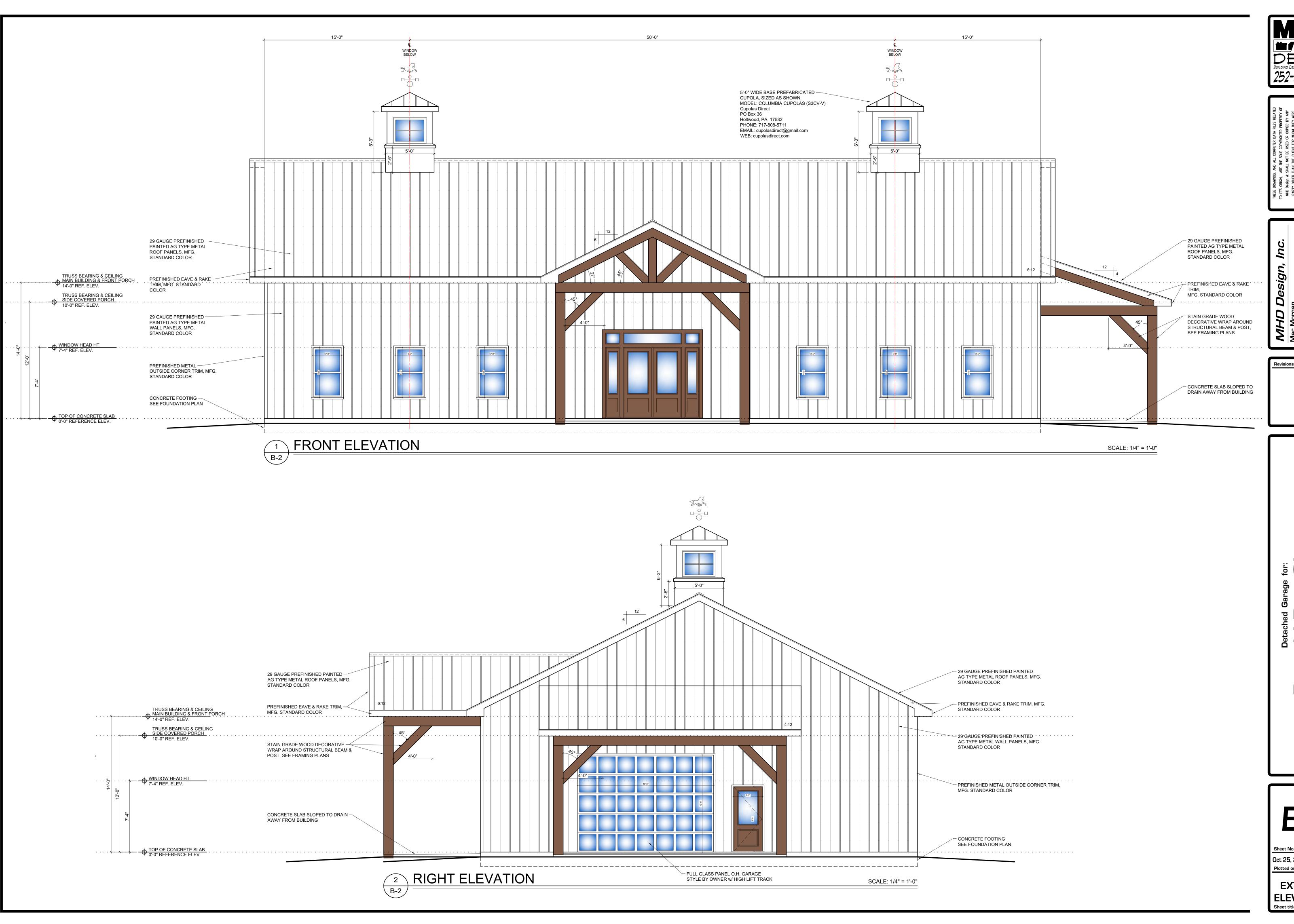
y Glover Dunn, NC 28334

Donald Ray
155 Addie Webb Lane

B-1

Sheet No.
Oct 25, 2020, 6:21pm

FLOOR PLAN



DESIGN BUILDING DESIGN & DRAFTING SERVICES 252-813-3491

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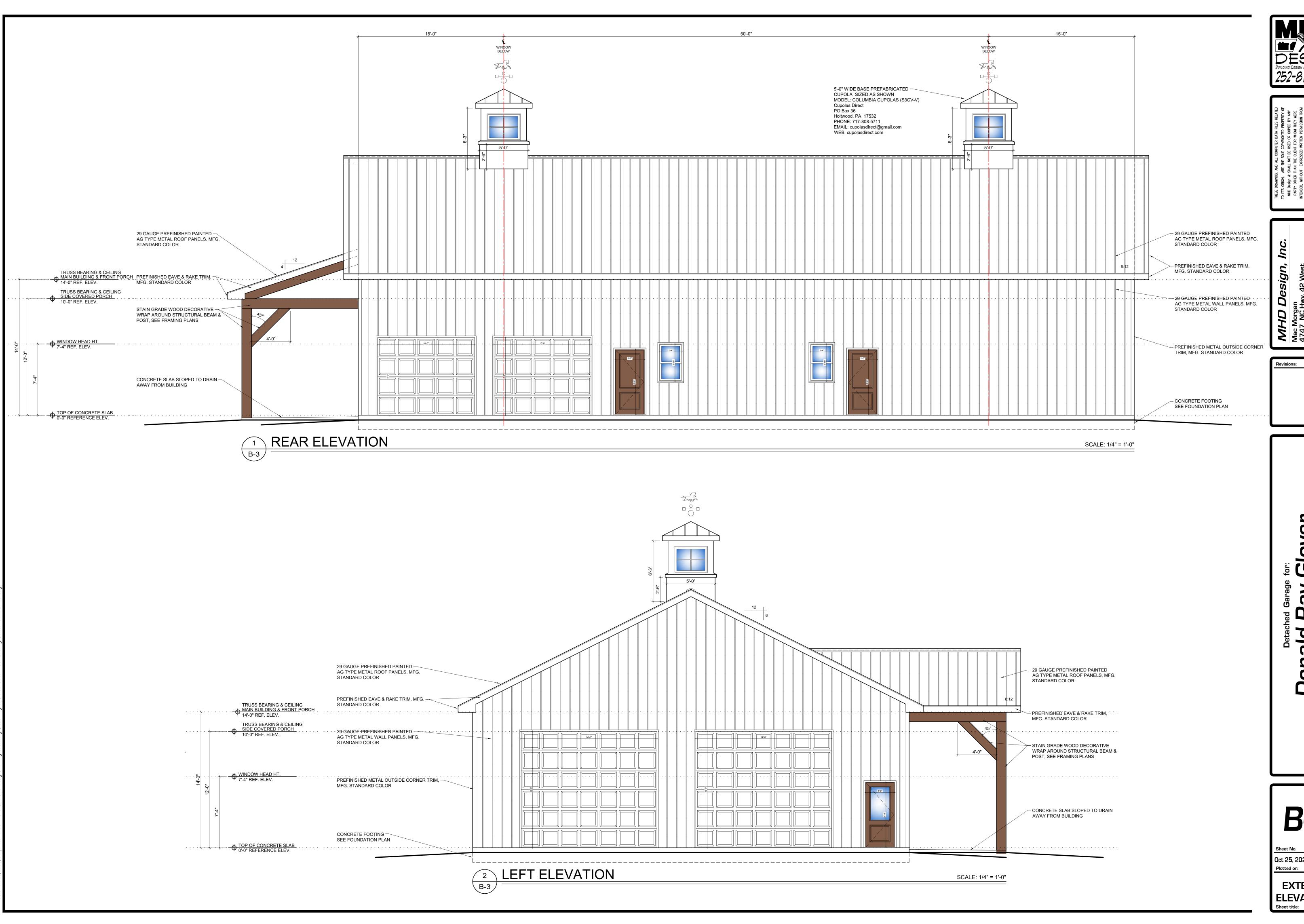
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Sheet No.
Oct 25, 2020, 6:21pm

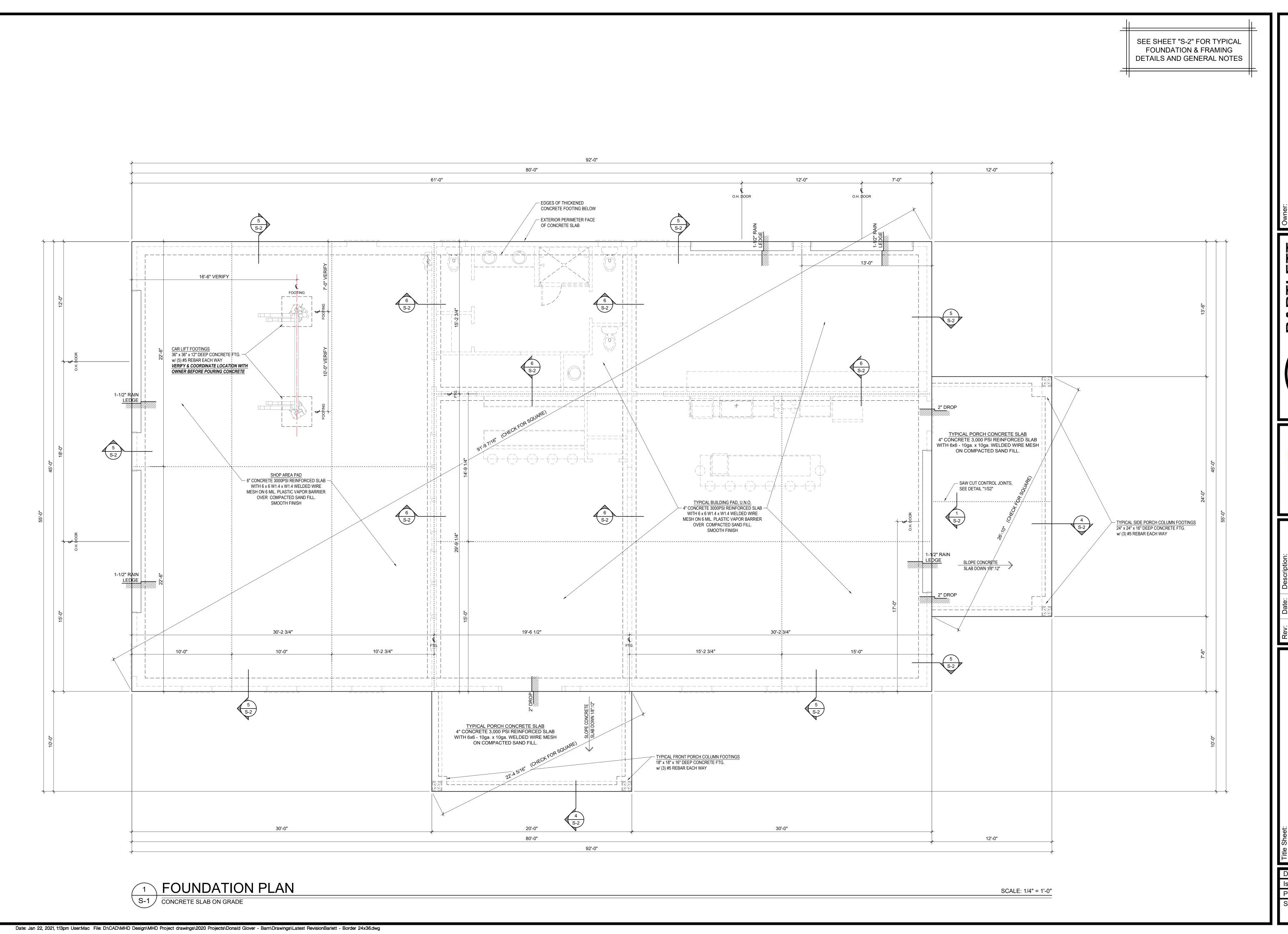
EXTERIOR ELEVATIONS



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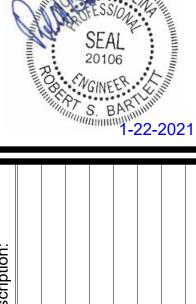
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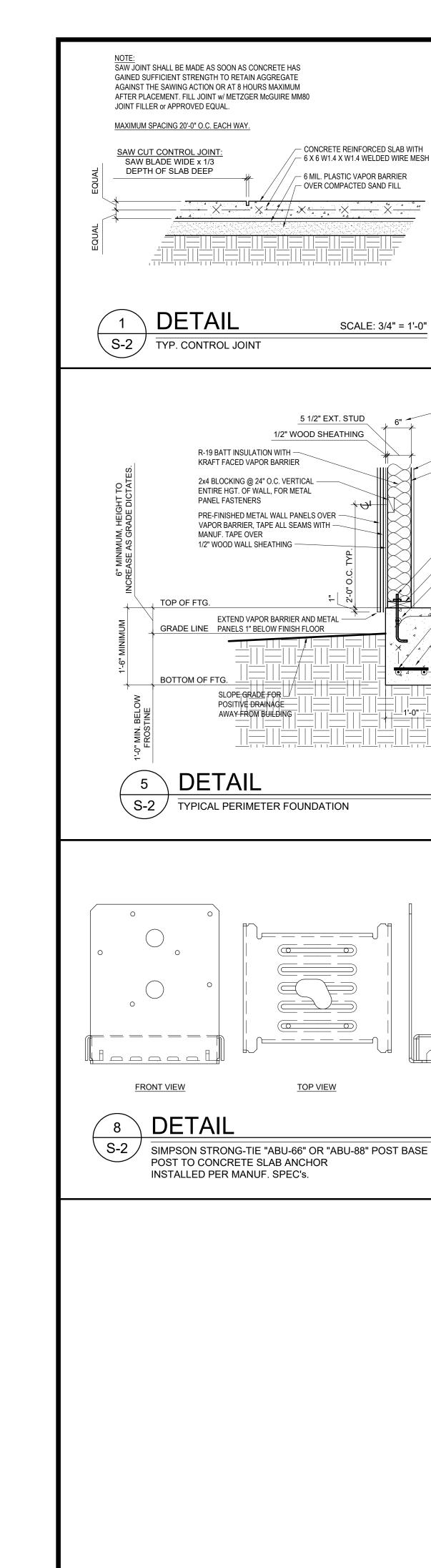


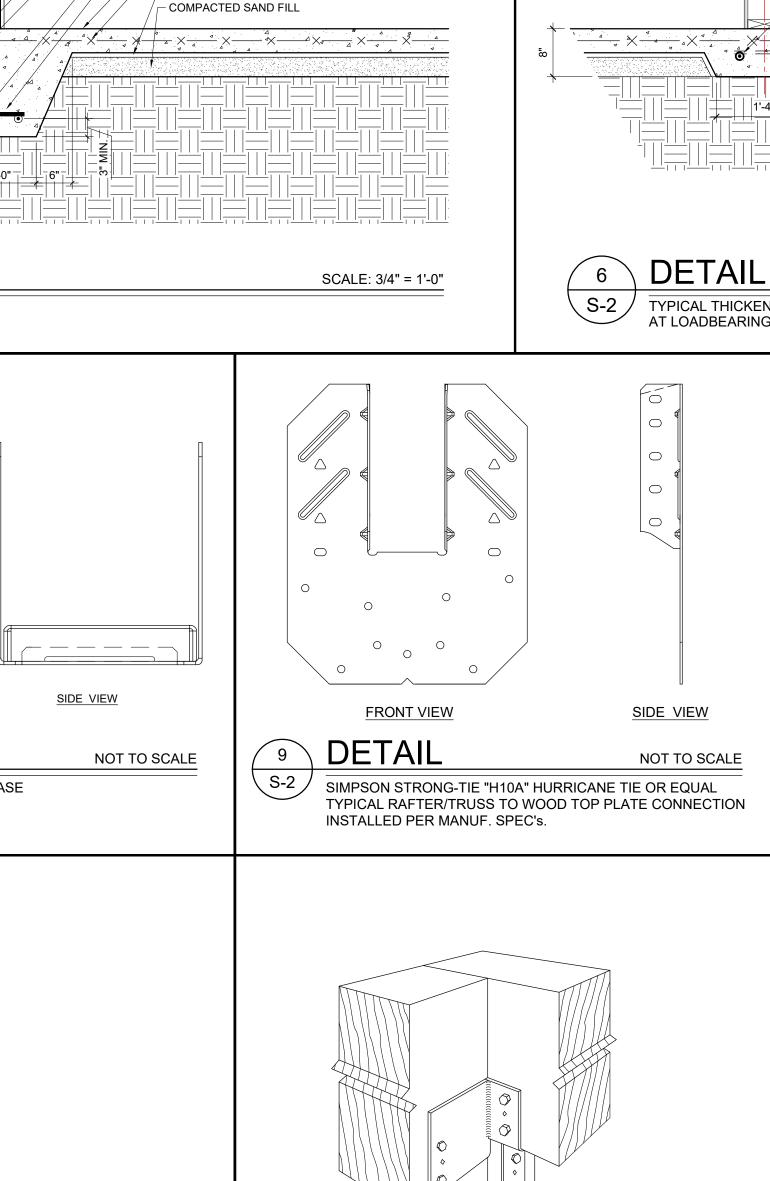
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M. Morgar Drawn by: 1-22-2021 Issue Date: Project Number:





DETAI

SIMPSON STRONG-TIE "CCC66" POST CAP

INSTALLED PER MANUF. SPEC's.

TYPICAL BEAM TO WOOD COLUMN CONNECTION

∖S-2

- METAL KEY AT CONSTRUCTION JOINT

- 6 X 6 W1.4 X W1.4 WELDED WIRE MESH

SCALE: 3/4" = 1'-0"

5/8" DIA.

TYP. ANCHOR BOLT

START AND STOP 3" FROM JOINT

DETAIL

USE AS REQUIRED

TYP. SLAB CONSTRUCTION JOINT

- 5/8" ANCHOR BOLTS @ 6'-0" O.C. & 1'-0" FROM EACH CORNER

DIM. SHOWN IS FROM EXTERIOR FACE WALL

1 - #5 REBAR CONTINUOUS ALONG TOP EDGE

- 4" or 6"CONCRETE REINFORCED SLAB WITH

- 6 X 6 - 10ga. X 10ga. WELDED WIRE MESH

- 6 MIL. PLASTIC VAPOR BARRIER OVER

- 2 - #5 REBARS CONTINUOUS w/ 24" MIN. LAP SPLICE

SHEATHING TO INTERIOR FACE OF STUD

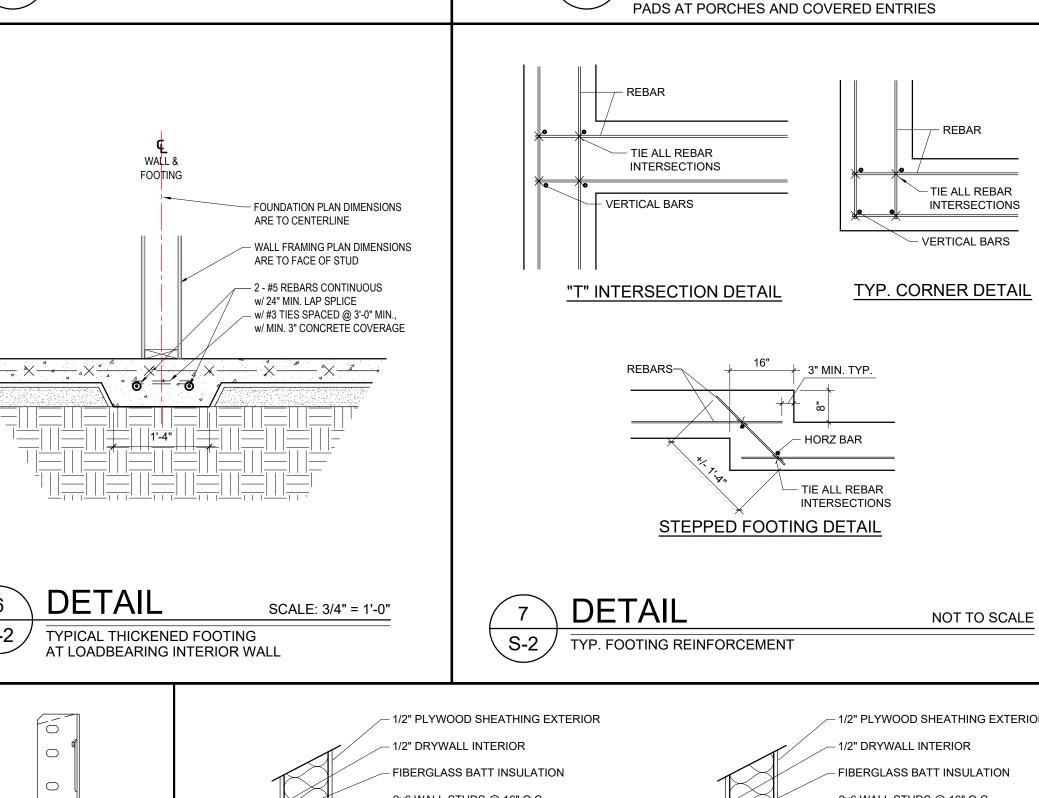
-INTERIOR WALL FINISH, PER OWNER

- 2x6 SPF #2 STUDS FRAMED @ 16" O.C.

- w/ #4 TIES SPACED @ 5'-0" MIN.,

MIN. 3" CONCRETE COVERAGE

←P.T. 2x6 SOLE PLATE



BULLNOSE RADIUS -

5/8" DIA. GALV. ANCHOR BOLT w/ STD.

TYPICAL INSTALLATION LOCATIONS

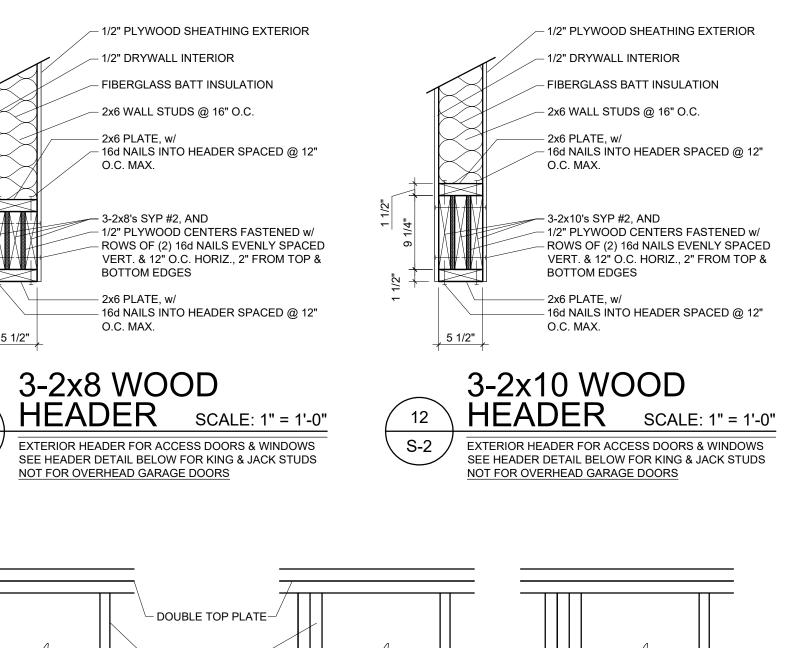
@ 6'-0" O.C. AND 12" MIN. FROM EACH CORNER

SCALE: 1-1/2" = 1'-0"

HOOK END MIN. 7" EMBEDMENT IN

PERIMETER LOADBEARING WALLS:

CONCRETE SLAB



— SINGLE KING STUD

- DOUBLE JACK STUD

WALL OPENINGS 3'-6" TO 6'-6"

STRUCTURAL NOTES

FOUNDATIONS

2 - #5 REBARS CONTINUOUS

- w/ #3 TIES SPACED @ 3'-0" MIN.

- 4" OR 6" CONCRETE SLAB WITH

- 6 MIL. PLASTIC VAPOR BARRIER

OVER COMPACTED SAND FILL

SCALE: 3/4" = 1'-0"

- 2 ROWS OF 16d NAILS SPACED @ 2" O.C. MINIMUM VERTICAL,

INTO EACH HEADER MEMBER, TYPICAL FOR ALL OPENINGS.

SCALE: 1" = 1'-0"

— DOUBLE KING STUD

DOUBLE JACK STUD

WALL OPENINGS 6'-6" TO 9'-6"

TYP. TURN DOWN FOOTING AT CONCRETE

FIBERMESH REINFORCING

w/ MIN. 3" CONCRETE COVERAGE

w/ 24" MIN. LAP SPLICE

ALLOWABLE DESIGN SOIL BEARING PRESSURE OF 1500 PSE ASSUMED SHALL BE VERIFIED IN THE FIELD BEFORE START OF CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.

- FOOTINGS SHALL BE CARRIED TO LOWER ELEVATIONS THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED BY THE ENGINEER IN ORDER TO REACH FIRM SOIL.
- COMPACT ALL FILL UNDER BUILDING TO 98 PERCENT MAXIMUM DENSITY AS DETERMINED BY ASTM D698. PLACE IN LAYERS 8" MAXIMUM LOOSE THICKNESS VERIEVEIELD DENSITY ASTM D1556, WITH AT LEAST ONE TEST PER 1,000 SQUARE FOOT PER

CONCRETE

- CONCRETE COMPRESSIVE STRENGTH IN 28 DAYS = 3,000 PSI.
- REINFORCING: ASTM A615 STIRRUPS AND TIES GRADE 40, ELSEWHERE GRADE 60.
- GROUT UNDER BASE PLATES SHALL BE NON-SHRINKING TYPE AS
- BAR DETAILS AND SUPPORTS: ACI DETAILING MANUAL AND BUILDING CODE. LAP ALL SPLICES 48 TIMES THE BAR DIAMETER,
- COVERAGE FROM FACE OF CONCRETE TO STEEL:
- FOOTINGS_ _ 3 INCHES
- SLABS EXPOSED TO EARTH AND WEATHER_____ 1 1/2 INCHES PROVIDE WWF REINFORCING IN ALL SLABS ON GROUND:
- __ 6 X 6 W1.4 X W1.4 PLACE WWF AT MID DEPTH OF SLAB, TYPICAL U.N.O.
- ALL EXPANSION STRIPS SHALL BE 1/2" THICK U.N.O.

APPROVED BY THE ENGINEER.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS.

- STRUCTURAL STEEL SHAPES, PLATES AND BARS: ASTM A36.
- "W" STRUCTURAL STEEL SHAPES: ASTM A992, GRADE 50.
- STRUCTURAL TUBE SHAPES: ASTM A500, GRADE B. ANCHOR BOLTS: ASTM A307.
- DESIGN, FABRICATION AND ERECTION: AISC SPECIFICATIONS FOR BUILDINGS.
- CONNECTIONS NOT DETAILED SHALL BE DESIGNED FOR LOADS SHOWN ON DRAWINGS OR FOR LOADS GIVEN IN STANDARD AISC LOAD TABLES FOR SPAN, SECTION AND STRENGTH SPECIFIED. BOLTED CONNECTIONS WITH 3/4" DIAMETER A325 BOLTS U.N.O.

TIGHTEN NUTS TO A MINIMUM OF 200 FT-LB OF TORQUE.

- WELDS SHALL BE IN ACCORDANCE WITH AWS D1.1 AND SHALL BE MADE ONLY BY OPERATORS CERTIFIED BY THE STANDARD QUALIFICATION PROCEDURE OF THE AMERICAN WELDING SOCIETY FOR THE TYPE OF WELD REQUIRED.
- RETURN ALL WELDS AT THE CORNERS TWICE THE NORMAL SIZE OF THE WELD MINIMUM.
- WHERE PLATES ARE FILLET WELDED OT MEMBERS AND NO WELD SIZE IS SPECIFIED PROVIDE FULL LENGTH FILLET WELDS BOTH SIDES OF PLATE AS FOLLOWS:

PLATE	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"
WELD	3/16"	3/16"	3/16"	1/4"	1/4"	5/16"	3/8"	7/16"

METAL ROOF TIE OPTIONS

ROOF RAFTERS, REPETITIVE MEMBERS: 1 - SIMPSON H16 HURRICANE TIE EACH RAFTER EACH END FASTENED w/ SIMPSON 10d x1-1/2" NAILS IN EACH HOLE OF CONNECTOR

2 - SIMPSON H2.5A HURRICANE TIE EACH RAFTER (OPPOSITE SIDES) EACH END FASTENED w/ SIMPSON

10dx1-1/2" NAILS IN EACH HOLE OF CONNECTORS **ROOF HIP & VALLEY MEMBERS:**

1 - SIMPSON H10 HURRICANE TIE EACH MEMBER EACH END FASTENED w/ SIMPSON 10d x1-1/2" NAILS IN EACH HOLE OF CONNECTOR

ENGINEERED WOOD FRAMING ALL ENGINEERED WOOD LVL's SPECIFIED ARE TO GEORGIA

PACIFIC BRAND RATED AT 2.0E OR EQUAL. ALL ASPECTS OF ENGINEERED WOOD INSTALLATION SHALL

BE DONE STRICTLY ACCORDING TO THE MANUFACTURES SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. IT IS THE RESPONSIBILITY OF THE BUILDER TO BECOME AWARE AND WELL VERSED OF SAME.

STRUCTURAL MASONRY

MASONRY WALLS, FOUNDATION WALLS, AND OTHER MASONRY SO DESIGNATED ON THE DRAWINGS ARE CONSIDERED HERE TO BE STRUCTURAL MASONRY.

COMPRESSIVE STRENGTH OF MASONRY UNITS: CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90,

TYPE II AND BE MADE WITH LIGHTWEIGHT AGGREGATE. SOLID CLAY UNITS _ _8,000 PSI _ 2,000 PSI ON NET AREA CONCRETE UNITS____

- MORTAR TYPE S ASTM C 270, AGGREGATE FOR MORTAR SHALL COMPLY WITH ASTM C 144.
- MORTAR FOR REINFORCED MASONRY TYPE S ASTM C270.
- GROUT FOR REINFORCED MASONRY: 9" TO 11" SLUMP. 3/8" MAXIMUM SIZE PEA GRAVEL. CONCRETE FOR GROUT SPACE 3"X4 AND GREATER. 5" SLUMP FINE GROUT ASTM C476 FOR GROUT SPACE 2"X4" TO 3"X4". COMPRESSIVE STRENGTH - 3000 PSI.
 - PROVIDE CLEAN-OUT OPENINGS AT THE BOTTOM OF EACH GROUT LIFT. CLEAN-OUT OPENINGS SHALL BE PROVIDED AT EACH CELL TO FILLED WITH GROUT.
- REINFORCING GRADE AND DETAILS AS FOR CONCRETE. TIE IN POSITION AND PLACE CONCRETE AROUND REINFORCING DURING CONSTRUCTION OF MASONRY. DO NOT PUSH REINFORCING DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMILARLY.
- PROVIDE STANDARD 9 GAGE TRUSS TYPE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16" O.C. VERTICAL AND IN TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS.
- CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1-99 / ASCE 6-99.
- REINFORCING STEEL SHALL COMPLY WITH ASTM A-615, GRADE 60 SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.

SOLID SAWN WOOD FRAMING

- UNLESS NOTED ALL WOOD BEAMS, GIRDERS, SILLS, HEADERS, & JOISTS ARE TO BE #2 SOUTHERN YELLOW PINE,
- 2. ALL WOOD IN CONTACT W/ CONCRETE OR MASONRY, TO BE .40 WOLVANIZED, OR SEPERATED BY METAL FLASHING.
- ALL WOOD POSTS TO BE .60 WOLVANIZED.
- 4. ALL WOOD EXPOSED TO THE EXTERIOR EXCEPT TRIM TO BE .40 WOLVANIZED.
- ALL WOOD DECKING TO BE .40 WOLVANIZED REDRIED SYP
- UNLESS NOTED OTHERWISE.
- EXTERIOR LOADBEARING WALLS FRAMED FROM 2x4 WOOD STUDS SYP #2 @ 16" O.C. MIN. WITH 1/2" WOOD SHEATHING EXTERIOR CONTINUOUS FROM SOLE PLATE AT TOP OF FND. WALL TO RAFTER BEARING PLATE ABOVE.
- INTERIOR LOADBEARING WALLS FRAMED FROM 2x4 WOOD STUDS SPF #2 "or" SYP #2 @ 16" O.C. MIN.
- ALL OTHER NON-LOADBEARING INTERIOR WALLS TO BE FRAMED 2x4's @ 16" O.C. SPF#2. WALLS HIGHER THAN 10'-0" TO HAVE 2x BLOCKING AT MID-SPAN OF WALL HEIGHT.
- 10. ALL ROOF SHEATHING TO BE 1/2" WOOD ROOF SHEATHING
- 12. NOTCHING OR DRILLING OF ALL FRAMING TO COMPLY W/ THE CURRENT EDITION OF N.C. RESIDENTIAL BUILDING CODE
- 13. ALL EXTERIOR FASTENERS TO BE GALVANIZED OR STAINLESS
- 14. ROOF FRAMING (REPETITIVE MEMBERS) TO BE 2x8 RAFTERS @ 16" O.C. SYP #2, WITH 2x10 RIDGES, HIPS, AND VALLEYS
- UNLESS OTHERWISE NOTED ON PLANS.
- 16. ALL HEADERS SPANNING 6'-0" OR LESS TO BE MIN. 2-2x10's #2 SYP, w/ 1/2" PLYWOOD CENTER, UNLESS NOTED OTHERWISE.
- ALL ROOF RAFTERS, HIPS, AND VALLEY MEMBERS TO BE ATTACHED TO DOUBLE 2x WOOD BEARING PLATES WITH SIMPSON METAL TIES, INSTALLED PER MANUF. SPEC's. OR OTHER MANUFACTURES EQUAL, UNLESS NOTED OTHERWISE.
- ALL METAL CONNECTORS TO BE "SIMPSON STRONG-TIE" BRAND OR OTHER MANUFACTURES EQUAL AND MUST BE INSTALLED PER MANUFACTURES SPECIFICATIONS.
- ALL METAL CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD TO HAVE MANUFACTURES FACTORY APPLIED ADDITIONAL CORROSION PROTECTION FROM PRESSURE TREATED WOOD PRESERVATIVES, SEE MANUF. SPEC's. FOR MORE INFORMATION.
- MIN. 2 BEARING STUDS ARE TO BE USED UNDER EACH END OF ALL BEAMS AND HEADERS UNLESS NOTED WITH THIS SYMBOL: □X IF BEARING LOCATION IS NOTED WITH THIS SYMBOL, IT INDICATES THE NUMBER OF BEARING STUDS TO BE USED. (MIN. #2 SPF UNLESS NOTED OTHERWISE)



Glove

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M. Morga 1-22-202 Issue Date: Project Number

Date: Jan 22, 2021, 1:14pm User:Mac File: D:\CAD\MHD Design\MHD Project drawings\2020 Projects\Donald Glover - Barn\Drawings\Latest RevisionBarlett - Border 24x36.dwg

SIDE VIEW

NOT TO SCALE

TYPICAL KING AND JACK STUD CONFIGURATION FOR UP TO 9'-6" WALL OPENINGS. UNLESS OTHERWISE NOTED ON PLANS NOT FOR OVERHEAD GARAGE DOORS

- CRIPPLE STUDS -@ 16" O.C.

2x HEADER TOP PLATE

HEADER, SIZED PER-

2x HEADER BOTTOM

- SINGLE KING STUD

SINGLE JACK STUD

WALL OPENINGS UNDER 3'-6"

NOT TO SCALE

HEADER DETAIL

SEE SHEET "S-2" FOR TYPICAL FOUNDATION & FRAMING DETAILS AND GENERAL NOTES 3 - 1 3/4" x 11 1/4" 2.0E LVL HEADER 3 - 1 3/4" x 11 1/4" 2.0E LVL HEADER 12-2x6 2x8 SYP #2 NAILERS TYPICAL LOW HEIGHT INTERIOR WALL: — CROSS HATCHING INDICATES 8'-1 1/2" HIGH WALL FRAMED w/ 2x4's SPF #2 @ 16" O.C., PT 2x4 SOLE PLATE, DOUBLE 2x4 TOP PLATE, UNLESS @ 8'-1 1/2" A.F.F. OTHERWISE NOTED.
SEE FLOOR PLAN FOR WALL WIDTHS. SEE ROOF FRAMING FOR TRUSS FRAMED CEILING/ROOF ABOVE 7 2-2x10s 2-2x6 2-2x10s SYP #2 PT 6x6 3-2x6s 3-2x6s 3-2x6s 2-2x6 _____: SEE ROOF FRAMING FOR TRUSS FRAMED CEILING/ROOF ABOVE 7 TYPICAL HIGH HEIGHT INTERIOR WALL:

14'-0" HIGH WALL FRAMED w/ 2x6's

SPF #2 @ 16" O.C., PT 2x6 SOLE PLATE,

DOUBLE 2x6 TOP PLATE, 2x6 SOLID

BLOCKING AT MID-SPAN OF STUD, 2-2x8s OPEN TO FRAMING ABOVE
SEE ROOF FRAMING FOR
RAFTER FRAMED ROOF ABOVE 7 UNLESS OTHERWISE NOTED. SEE ROOF FRAMING FOR TRUSS FRAMED CEILING/ROOF ABOVE 7 SEE FLOOR PLAN FOR WALL WIDTHS. SEE ROOF FRAMING FOR TRUSS FRAMED CEILING/ROOF ABOVE 7 CORNER METAL POST CAP
BEAMS FASTENED TO PRESSURE TREATED
POSTS w/ SIMPSON POST CAP "CCC66" OR
EQUAL WITH FACTORY CORROSION RESITANCE
SEE DETAIL "10/S-2" _____2-2x10s SYP #2 _____PT 6x6 - PRESSURE TREATED POSTS TO BE ANCHORED TO CONCRETE SLAB BELOW w/ SIMPSON POST BASE "ABU-66" OR EQUAL WITH FACTORY CORROSION RESITANCE SEE DETAIL "8/S-2" "RED LINE"
INDICATES STRUCTURAL BEAM,
FLUSH OR DROPPED IN
RELATION TO INSTALLED FLOOR
OR CEILING FRAMING MEMBERS, SEE BEAM CALL OUT NOTES. 3-2x8s 3-2x8s 3-2x6 3-2x8s 3-2x8s 3-2x8s 3 - 1 3/4" x 11 1/4" 2.0E LVL HEADER 3-2x8s TYPICAL EXTERIOR WALL:

2x6 SPF #2 @ 16" O.C., PT 2x6 SOLE

PLATE, DOUBLE 2x6 TOP PLATE, 2x6

SOLID BLOCKING AT MID-SPAN OF STUD, - <u>BLUE LINE"</u> INDICATES STRUCTURAL └ OPEN TO FRAMING ABOVE 1/2" WOOD WALL SHEATHING ON EXTERIOR FACE OF STUDS HEADER OF WALL OPENING BELOW. IF SIZE NOT SHOWN, SEE ROOF FRAMING FOR RAFTER FRAMED ROOF ABOVE USE 2-2x6s SYP #2 TYPICAL. SEE HEADER DETAILS SHEET S-2 WALL FRAMING PLAN SCALE: 1/4" = 1'-0"

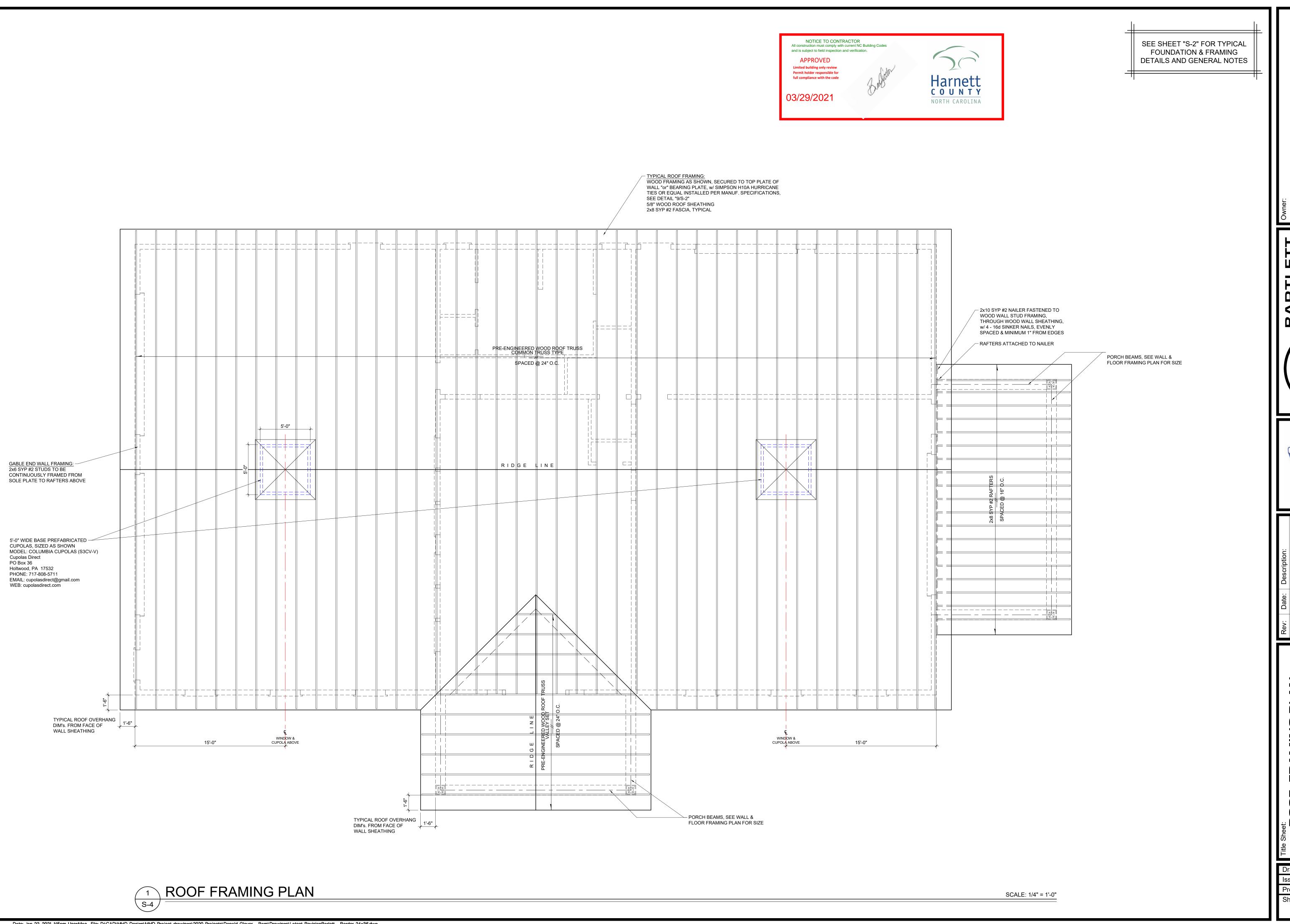
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M. Morgan Drawn by: 1-22-2021 Issue Date: Project Number:

S-3



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Structural plans 1 M. Morgan Drawn by:

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