

| ULTIMATE & NOMINAL WIND SPEEDS | |
|--------------------------------|---------|
| ULTIMATE | NOMINAL |
| 120 | 93 |
| 130 | 101 |
| 140 | 108 |
| 150 | 116 |
| 155 | 120 |
| 160 | 124 |

DESIGN CRITERIA:

FLORIDA BUILDING CODE 2023 8TH ED.
DESIGN LOADS PER ASCE 7-22
DESIGN SPEED - 120 MPH
ROOF LIVE LOAD - 12.5 PSF
DEAD LOAD - 2.5 PSF
WIND RISK CATEGORY - I
EXPOSURE CATEGORY - B
IMPORTANCE FACTOR - 1.0
INTERNAL WIND PRESSURE - +/- 0.18 PSI

POLE BARN SPECIFICATIONS

GABLE WIDTH (D-1): 45'
BUILDING LENGTH (D-2): 84'
EAVE HEIGHT (D-3): 16'
POLE SPACING: 12'
GABLE WIDTH LEAN TO (D-4): 16'
LENGTH OF LEAN TO (D-5): 84'
EAVE HEIGHT OF LEAN TO (D-6): 12'
ROOF PITCH: 4:12
ROOF RISE LEAN TO: 1:12
RIDGE HEIGHT : 23' - 06"
WALLS: ENCLOSED OTHERS
FLOOR: CONCRETE
ROOF METAL: 29 GA.
SIDE METAL: N/A
POST SIZE BARN: 8"x8" PT
POST SIZE LEAN TO: 8"x8" PT
FOOTING SIZE BARN: 24"X48"
FOOTING SIZE LEAN: 24"X48"
CONCRETE : 3,000 PSI

WIND EXPOSURE CATEGORY

| | | |
|---------------------------------------|----------------------------|----------------------------|
| <input checked="" type="checkbox"/> B | <input type="checkbox"/> C | <input type="checkbox"/> D |
|---------------------------------------|----------------------------|----------------------------|

MAIN BUILDING DIMENSIONS

| D-1 | | |
|-----------------|------------|------------|
| BARN WIDTH (FT) | 6"X6" POST | 8"X8" POST |
| 45 | 44' - 01" | 43' - 08" |

| LEAN POST HEIGHT (D-6) | | | | OTHER |
|------------------------|-----|-----|-----|-------|
| 8' | 10' | 12' | 14' | 16' |
| | | | | |

MAIN POST FOOTING SIZE

| | |
|-----|---------------------|
| F-1 | 18" DIA. X 48" DEEP |
| F-2 | 24" DIA. X 48" DEEP |

MAIN POST HEIGHT (D-3)

| SIZE CIRCLED OR LESS | | | | | OTHER |
|----------------------|-----|-----|-----|-----|-------|
| 10' | 12' | 14' | 16' | 20' | |

MAIN BLD ROOF PITCH

| | | | |
|------|------|------|------|
| 3/12 | 4/12 | 5/12 | 6/12 |
|------|------|------|------|

LEAN POST FOOTING SIZE

| | |
|-----|---------------------|
| F-1 | 18" DIA. X 48" DEEP |
| F-2 | 24" DIA. X 48" DEEP |

POST SPACING (FT)

| | | |
|----------------------------|-----------------------------|--|
| <input type="checkbox"/> 8 | <input type="checkbox"/> 10 | <input checked="" type="checkbox"/> 12 |
|----------------------------|-----------------------------|--|

LEAN BUILDING DIMENSIONS

| D-4 | | |
|-----------------|------------|------------|
| LEAN WIDTH (FT) | 6"X6" POST | 8"X8" POST |
| 16 | 15'-6 1/2" | 15'-6 1/2" |

LEAN BLD ROOF PITCH (a)

| | | | |
|------|--|--|--|
| 1/12 | | | |
|------|--|--|--|



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CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING

289 NE Ridge Loop
Madison, Florida 32340
Phone 850.973.7864
COA No. 27216 www.madisonengineer.com

POLE BARN - B - 45 X 84
ABT TRUSS

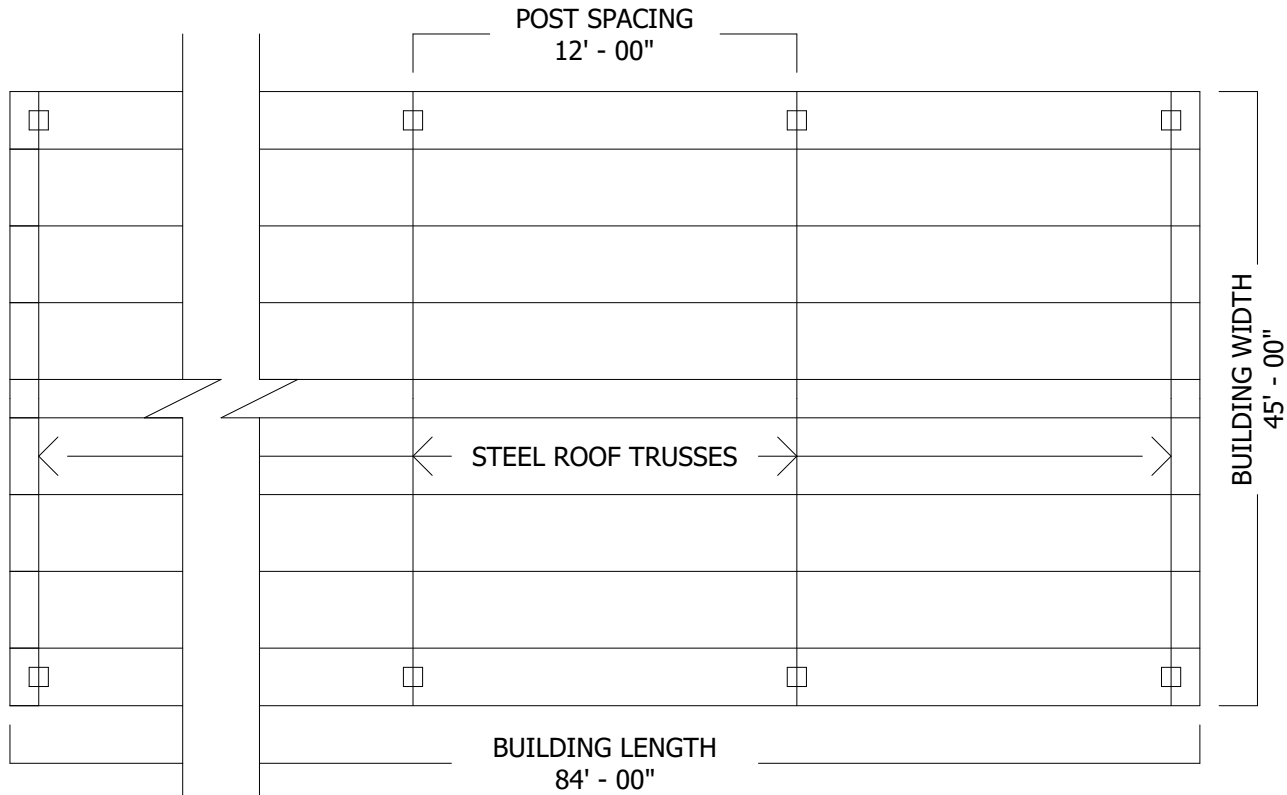
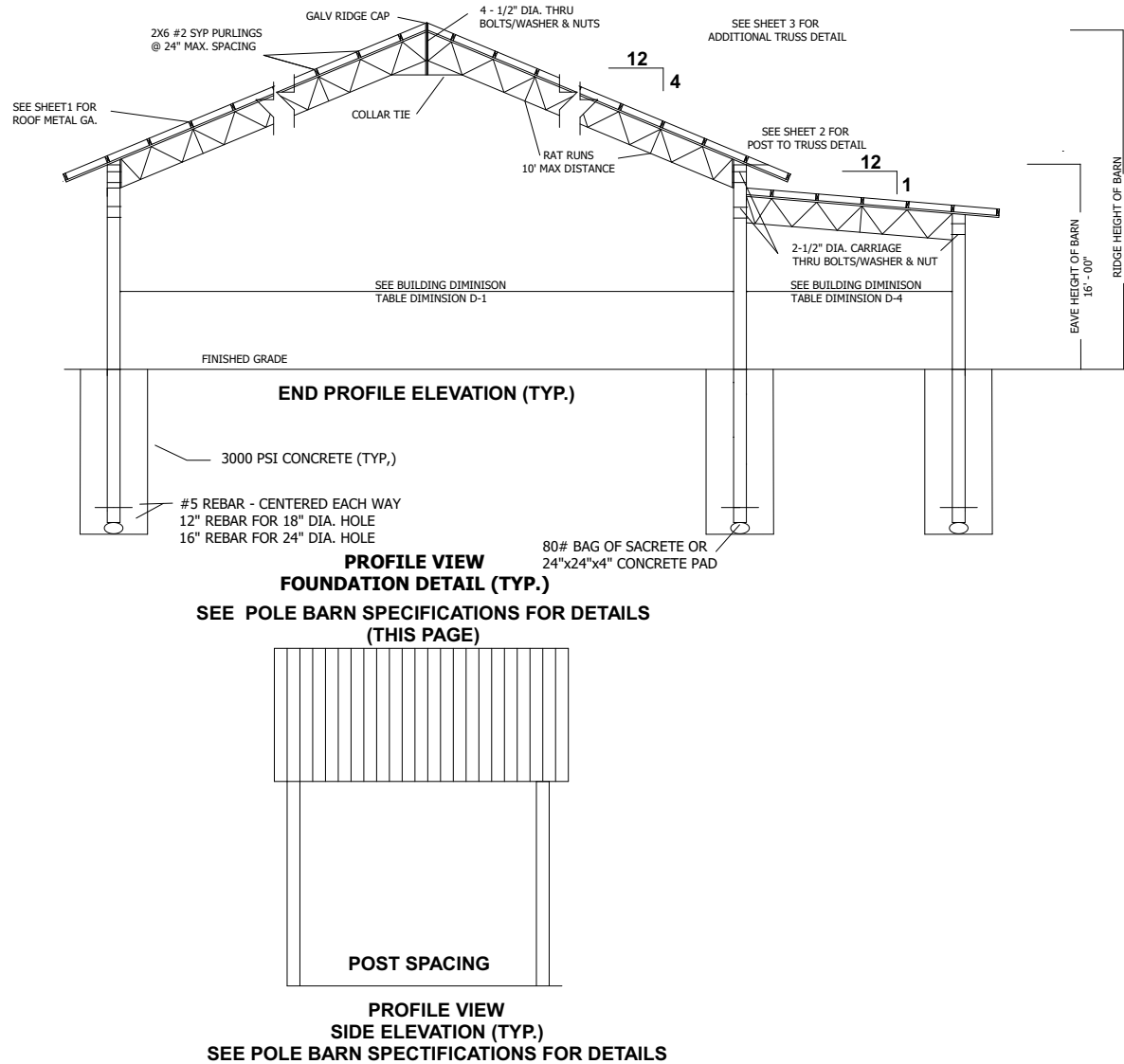
SYDASH CONSTRUCTION (45X84)

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T. BRENT WHITMAN, P.E.
FL. P.E. #63178 / GA. P.E. #031609

SHEET NO.

1



BARN PLAN VIEW (TYP.)

NOTES:

1. PURLINS SHALL BE 2X6 #2 SYP (MAX SPACE @2'-0" O.C.)
2. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY & PERMANENT CONSTRUCTION BRACING.
3. ALL DEMINSONS SHALL BE VERIFIED PRIOR TO FABRICATION.
4. ALL WELD PER AWS STANDARDS.
5. ALL STELL AND FABRICATION PER ASCI STANDARDS.
7. ITEM DEMINSONS ARE TO BE MODIFIED FOR SHORTER TRUSS LENGTHS.
8. ALL FASTNERS SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS.
9. TRUSS DESIGN CAN BE USED FOR TRUSS LENGTHS SHORTER THAN 25 FEET.
10. CONCRETE WORK SHALL CONFORM TO 'BUILDING CODE REQUIRMENTS FOR REINFORCED CONCRETE' (ACI-318).
11. ALL CONCRETE SHALL BE 3000 PSI MIN. W/ WWF OR FIBER
12. FL PRODUCT APPROVAL CODE ROOF SYSTEM 36904.1



POLE BARN - B - 45 X 84
ABT TRUSS

SYDASH CONSTRUCTION (45X84)

421 SE ALFRED MARKHAM STREET LAKE CITY FL 32025

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VALID ONLY WITH SIGNED
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FL P.E. #63178 / GA. P.E. #031609

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2

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CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING

2869 NE Ridge Loop
Madison, Florida 32340
Phone 850.973.7864
www.madisonengineer.com

COA No.: 27216 www.madisonengineer.com

DESIGNED TBW

DRAWN DVD

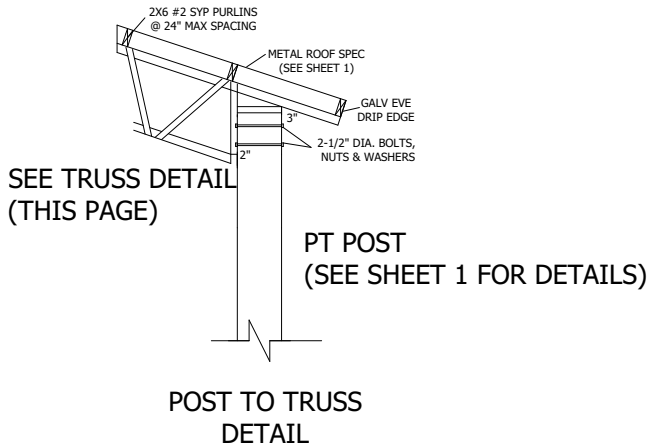
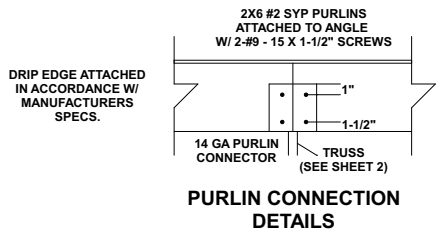
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APPROVED TBW

JOB NO.: 3524172

DATE: 19 JULY 2024

COLUMBIA COUNTY



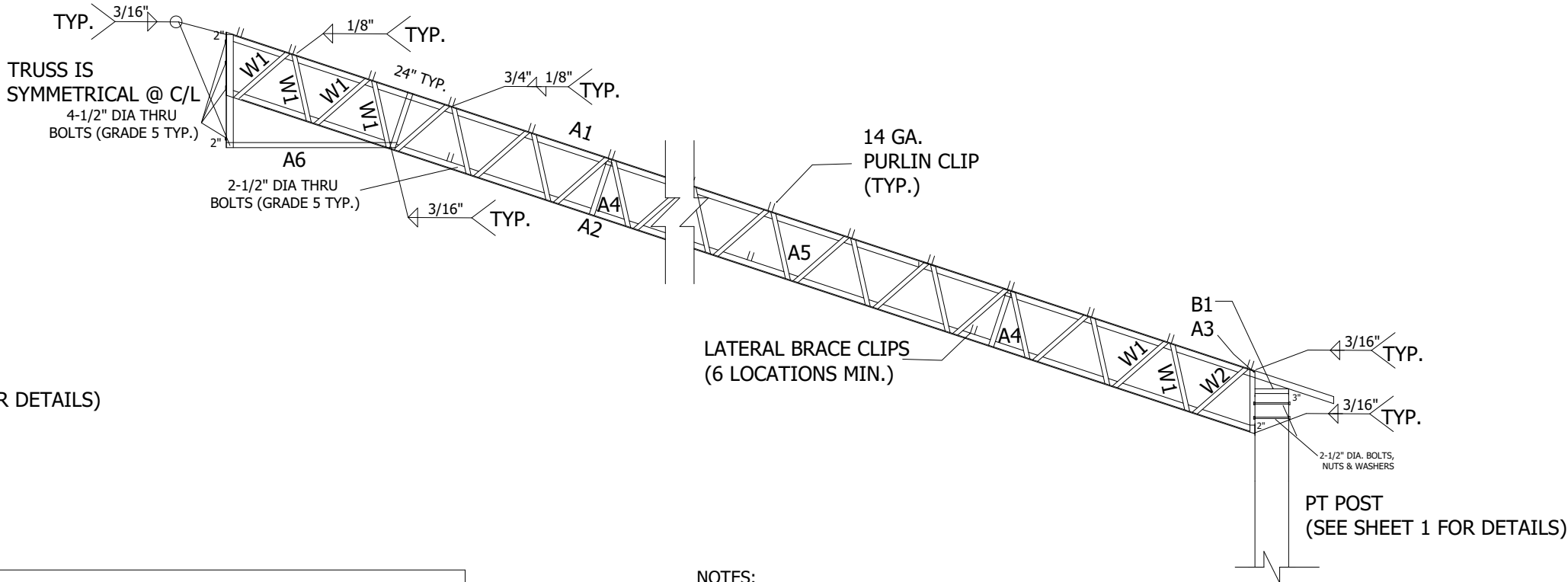
NOTES: TRUSS CROSS-SECTION

- 1- MATERIALS SHALL CONFORM TO STEEL ASTM 572.
- 2- ALL STEEL SHALL BE 50ksi IN ACCORD WITH CURRENT AISC MANUAL.
- 3- WELDING ELECTRODES SHALL BE TYPE E70XX
- 4- ALL WELDING SHALL BE IN ACCORD WITH CURRENT AWS REQUIREMENTS
- 5- ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER.
- 6- BOL TS SHALL BE ASTM A325. w/ NUTS & WASHERS. TYP)
- 7- WELD STRENGTH 70 KSI MIN:
- 8- ALL POST SHALL BE #2 DENSE PRESSURE TREATED GROUND CONTACT.
- 9- PRIMING & PAINTING SHALL BE DONE BY TRUSS MANUFACTURER.
- 10- MIN EDGE DISTANCE FOR BOLTS HOLES SHALL BE 3/4" MIN
- 11- MAX TRUSS SPACING SHALL NOT EXCEED 12'-0" OC.
- 12-THE DESIGNER DISCLAMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF POOR WORKMANSHIP, OR IMPROPER USE, AND ACCEPTS NO RESPONSIBIL TY OR EXERCISES NO CONTROL WITH REGARD TO FABRICATION, HANDLING, AND INSTALLATION OF TRUSSES.

BILL OF MATERIALS

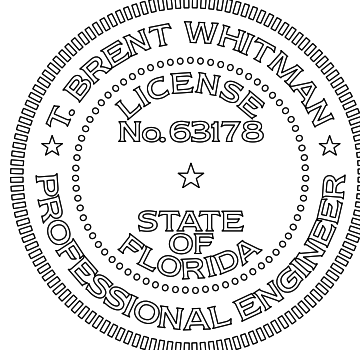
| ITEM NO. | DESCRIPTION | MATERIAL (50 KSI) |
|-------------|----------------|------------------------|
| A1 | TOP CHORD | LL 2 X 2 X 3/16* |
| A2 | BOTTOM CHORD | LL 2 X 2 X 3/16* |
| A3 | VERTICAL CHORD | LL 2 X 2 X 3/16* |
| A4 | VERTICAL CHORD | L 1 1/2 X 1 1/2 X 3/16 |
| A5 | TIE | L 2 X 2 X 3/16 |
| A6 | TIE | L 2 X 2 X 3/16 |
| W1 | WEB | L 1-1/4 X 1-1/4 X 3/16 |
| W2 | WEB | L 1-1/4 X 1-1/4 X 3/16 |
| B1 | BASE | LL 2 X 2 X 3/16* |

NOTE: LL * DENOTES DOUBLE ANGELS



NOTES:

1. PURLINS SHALL BE 2X6 #2 SYP (MAX SPACE @2'-0" O.C.)
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3. ALL DEMINIONS SHALL BE VERIFIED PRIOR TO FABRICATION.
4. ALL WELD PER AWS STANDARDS.
5. ALL STELL AND FABRICATION PER ASCI STANDARDS.
7. ITEM DEMINIONS ARE TO BE MODIFIED FOR SHORTER TRUSS LENGTHS.
8. ALL FASTNERS SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS.
9. TRUSS DESIGN CAN BE USED FOR TRUSS LENGTHS SHORTER THAN 50 FEET.
10. WELDING ELECTRODES SHALL BE E70XX
11. ALL WELDS SHALL BE IN ACCORDANCE WITH AWS REQUIRMENTS.
12. ALL POST SHALL BE #2 DENSE PRESSURE TREATED.



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Whitman
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10:27:01 -04'00'

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| DESIGNED | TBW |
| DRAWN | DVD |
| CHECKED | TBW |
| APPROVED | TBW |
| JOB NO. | 35224172 |
| DATE | 19 JULY 2024 |

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CONSULTING CIVIL & ENVIRONMENTAL ENGINEERING

269 NE Ridge Loop
Madison, Florida 32340
Phone 850.973.7864
COA No.: 27216 www.madisonengineer.com

ME

POLE BARN - B - 45 X 18
ABT TRUSS

SYDASH CONSTRUCTION (45X84)

421 SE ALFRED MARKHAM STREET LAKE CITY FL 32025

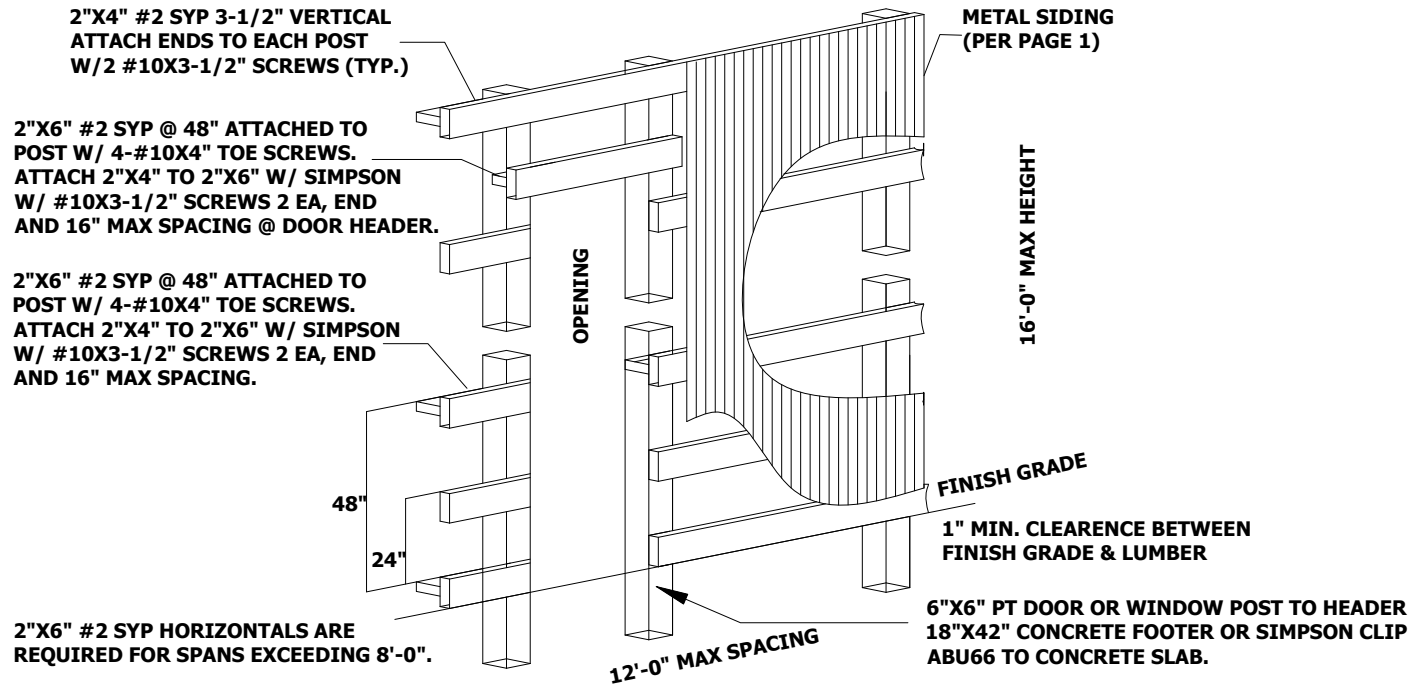
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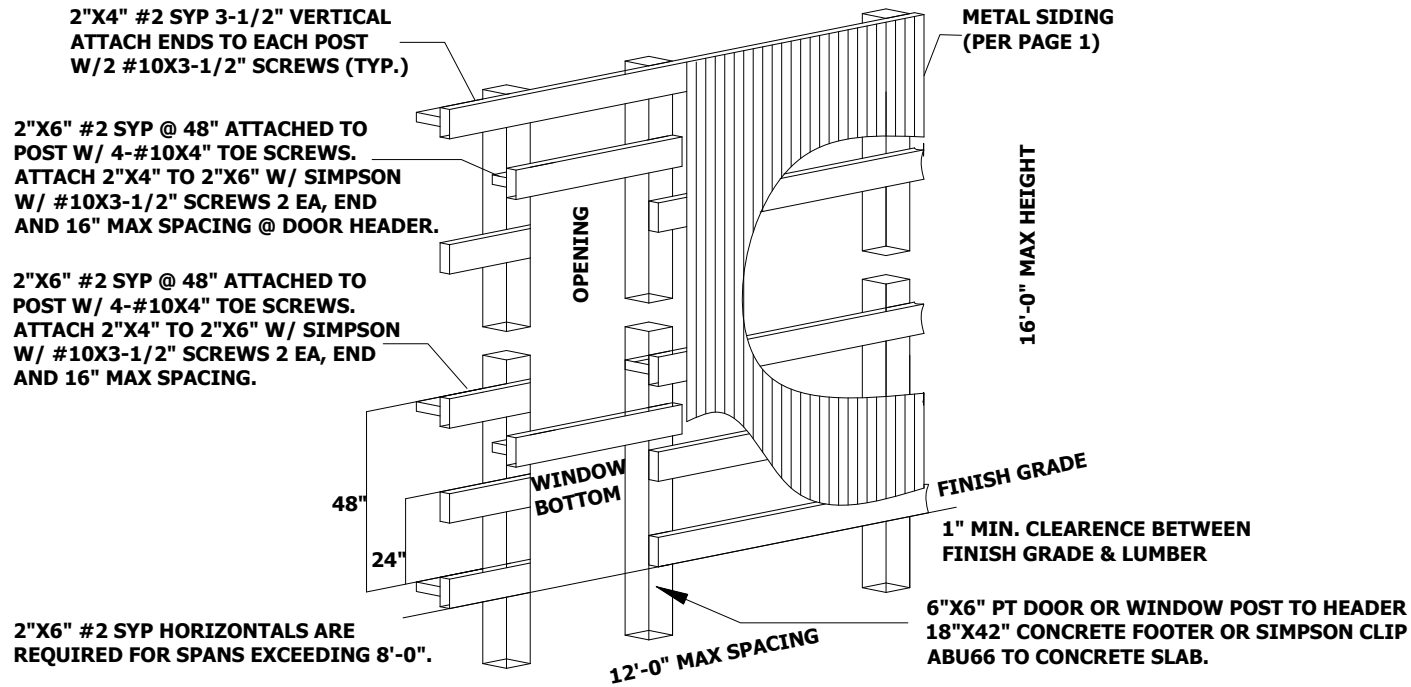
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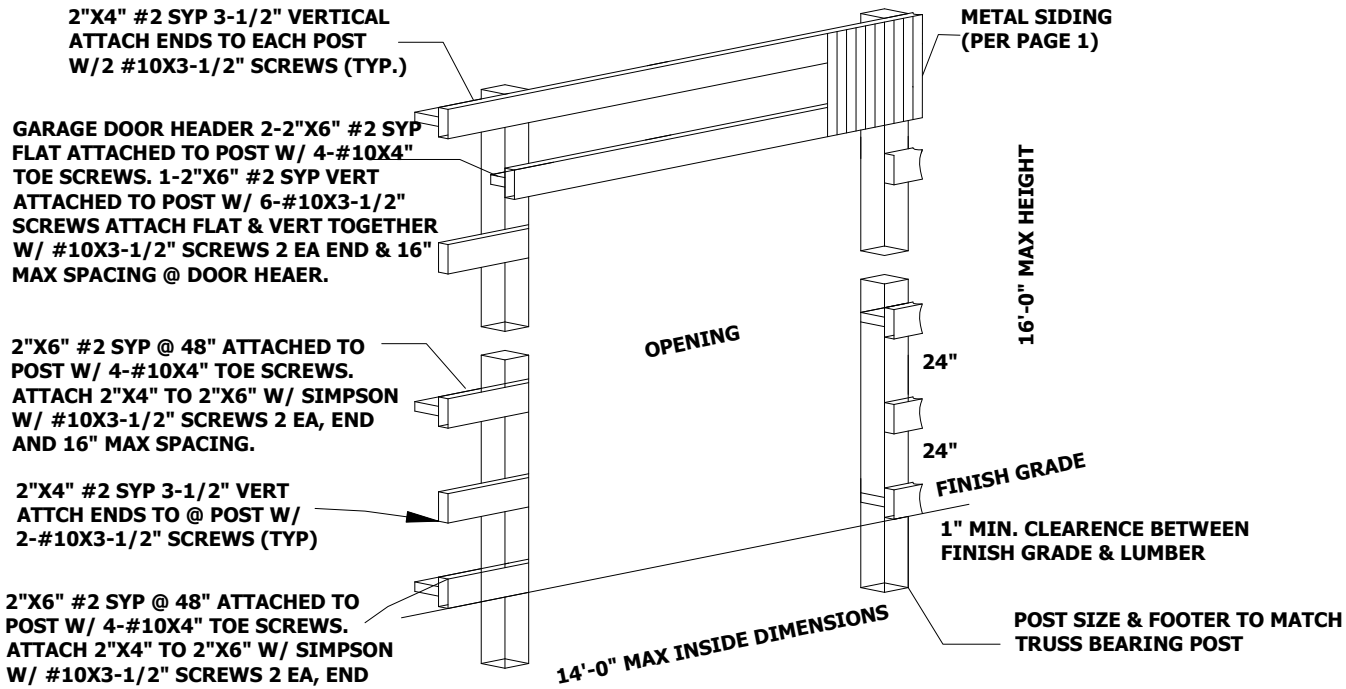
**MAIN DOOR OPENING
(TYP)**

* USE COATED SCREWS FOR EXTERIOR USE



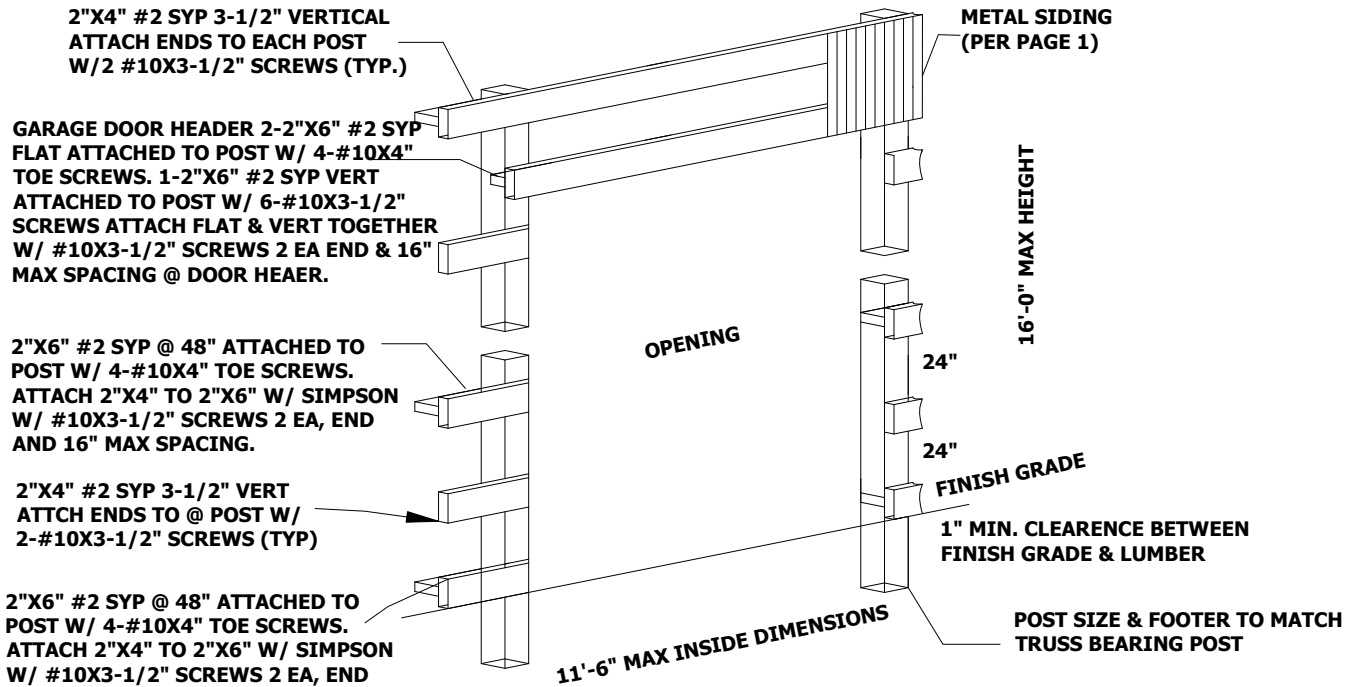
**WINDOW OPENING
(TYP)**

* USE COATED SCREWS FOR EXTERIOR USE



**GABLE END GARAGE
DOOR OPENING (TYP)**

* USE COATED SCREWS FOR EXTERIOR USE



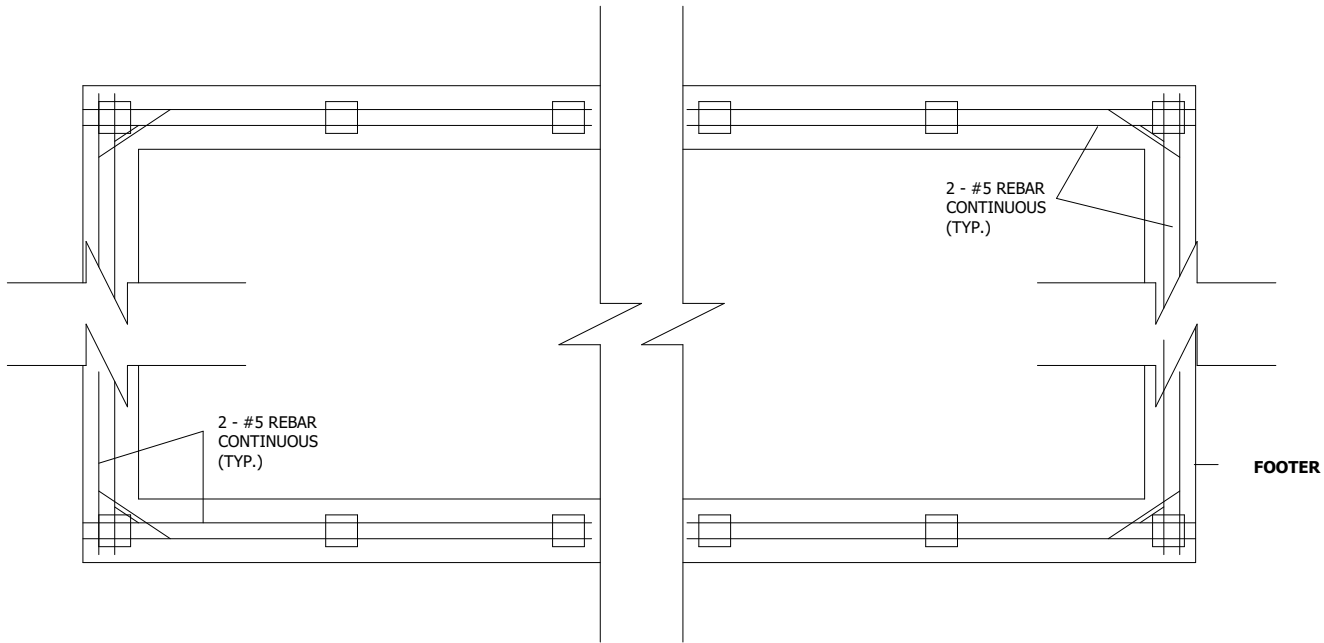
**GARAGE DOOR OPENING
TRUSS BEARING WALL (TYP)**

* USE COATED SCREWS FOR EXTERIOR USE



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10:27:22 -04'00'



NOT TO SCALE

4" 3000 PSI CONC. SLAB
W/ 6X6 10/10 W.W.M. OR
FIBER MESH OVER 6 MIL.
VAPOR BARRIER & 6" MIN.
CLEAN COMPATED SAND.

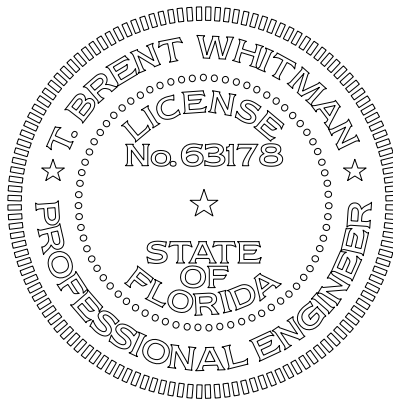
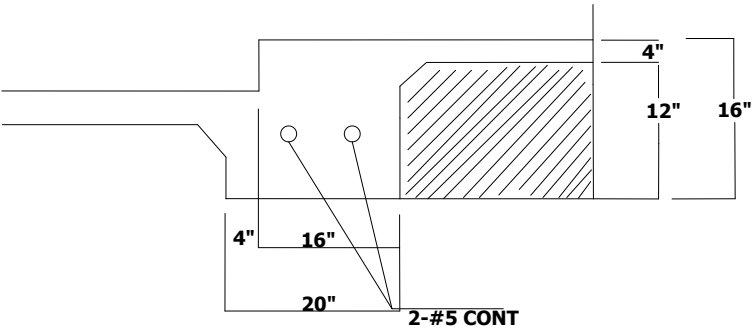
CONTROL JOINT NOTES:

1. Control joints shall be field located by the contractor.
2. Control joints shall be located to limit the frequency and width of random cracks in the concrete slab.
3. Locate and install control joints in accordance with ACI 360R "Design of Slabs on Ground" and the details shown.
4. Maximum spacing of joints shall be per the table below.
5. Saw cuts should be made as soon as possible after hardening.
6. Keyed form to be removed before adjacent slab is poured.

NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO FBC 2023, 8TH EDITION. (CODE SHALL GOVERN OVER PLANS IN CASE OF CONFLICT.)
2. DESIGN WIND SPEED = 120 MPH
3. CONCRETE: 3000 PSI / STEEL: GRADE 60
4. FOUNDATION DESIGN FOR 14' EAVE HT. (4:12 PITCH) NO COLATERAL OR CRANE LOADING.
5. ALL SPLICES IN STEEL SHALL BE LAPPED 40 BAR DIA. IN CONCRETE BLOCK & 30 BAR DIA. IN MONOLITHIC SLAB.
6. ALL REINFORCEMENT STEEL SHALL BE LOCATED A MIN. 3" FROM CONCRETE SURFACE.
7. ALL ORGANIC MATERIAL SHALL BE REMOVED FROM UNDER FOUNDATION PRIOR TO CONSTRUCTION.
8. ALL FILL SHALL BE COMPACTED TO A MIN. 95% OF MAX. DRY DENSITY AS DETWRMINED BY MODIFIED PROCTOR TEST.
9. FOOTER @ A 12" MIN INTO UNDISTURBED SOIL.
10. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY VARIATION IN DIAMENSTIONS.
11. THE ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATION FROM THESE PLANS UNLESS SUCH CHANGES ARE AUTHERIZED IN WRITING BY THE ENGINEER.

FOOTER DETAILS



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| DESIGNED | TBW | DVD | CHECKED | TBW | APPROVED | TBW | JOB NO.: 35224172 | DATE: 19 JULY 2024 |
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