

-2015 DESIGN DELIVERABLE / S.E. WAGNER, ARCHITECT EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER. NONE ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF DESIGN DELIVERABLE / S.E. WAGNER, ARCHITECT.

G. TIMBER FRAMING

1. ALL STRUCTURAL TIMBER SHALL
- G. BE HEM FIR #2 MINIMUM, STRESS GRADE LUMBER OR APPROVED EQUAL.
- F. THE MINIMUM ALLOWABLE PROPERTIES ARE AS FOLLOWS:

1. $F_b = 850 \text{ PSI}$ $F_v = 75 \text{ PSI}$ $E = 1,300,000 \text{ PSI}$

C. ALL STRUCTURAL TIMBER TO BE STAMPED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTIONS "CONSTRUCTION MANUAL".

2. ALL GLUED LAMINATED BEAMS SHALL BE SOUTHERN PINE, HEM FIR OR APPROVED EQUAL.

A. CONFORMING TO AITC 117-84 "STANDARD SPECIFICATION FOR STRUCTURAL GLUED LAMINATED TIMBER OF SOFTWOOD SPECIES".

B. THE MINIMUM ALLOWABLE PROPERTIES FOR GLUED LAMINATED BEAMS ARE AS FOLLOWS:

$F_b = 2200 \text{ PSI}$ $F_v = 165 \text{ PSI}$ $E = 1,500,000 \text{ PSI}$

3. ALL WOOD TRUSS MEMBERS SHALL BE FABRICATED FROM KILN DRIED SOUTHERN PINE STRESS GRADE LUMBER OR EQUAL.

4. ALL TIMBER AND TIMBER CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND CODES AS SPECIFIED BELOW:

A. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION: TIMBER CONSTRUCTION MANUAL.

B. NATIONAL FOREST PRODUCTS ASSOCIATION: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.

C. AMERICAN PLYWOOD ASSOCIATION: PLYWOOD DESIGN SPECIFICATION.

D. AMERICAN WOOD-PRESERVERS ASSOCIATION STANDARDS.

E. NATIONAL LUMBER MANUFACTURERS ASSOCIATION: NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS.

5. DESIGN, FABRICATION AND INSTALLATION OF WOOD TRUSSES AND SHEET METAL CONNECTORS SHALL BE IN ACCORDANCE WITH THE FOLLOWING TRUSS PLATE INSTITUTE STANDARDS:

A. DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES, TP-85 FOR ROOFS.

B. DESIGN SPECIFICATION FOR METAL PLATE CONNECTED PARALLEL CHORD WOOD TRUSSES, PCT-80 FOR FLOORS.

C. RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES, DSB-89.

D. HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91.

6. ALL TIMBER CONNECTIONS SHALL BE MADE USING PREFABRICATED CONNECTORS. TOE-NAILING IS NOT PERMITTED. SUBMIT MANUFACTURERS DATA FOR REVIEW. FASTENERS SHALL BE AS MANUFACTURED BY HECKMANN, KANT SAQ, SIMPSON OR APPROVED EQUAL.

7. HEADER AT NON-BEARING CONDITIONS SHALL BE AS FOLLOWS:

OPENING SIZE	HEADER
i. UP TO 4'-0	(2) 2" x 6"
ii. 4'-0 TO 6'-0	(2) 2 x 8"
iv. 6'-0 TO 9'-0	(2) 2" x 10"

8. PROVIDE MINIMUM CONTINUOUS SOLID BLOCKING OR CROSS BRIDGING LINES AT 8'-0" O/C MAX SPACING FOR ALL

- A. ROOF TRUSSES
- B. FLOOR TRUSSES
- C. PROVIDE ADDITIONALLY X-BRIDGING AS REQUIRED BY FABRICATOR. PROVIDE A MINIMUM OF ONE LINE BLOCKING/CROSS BRIDGING FOR ALL SPANS.

9. PROVIDE STRUCTURAL PLYWOOD SHEATHING OR APPROVED EQUAL AT ALL SIDES OR CORNERS FOR WIND BRACING. CONNECTIONS OF PLYWOOD SHALL COMPLY WITH APA NAILING REQUIREMENTS FOR PLYWOOD SHEAR WALLS.

10. PROVIDE PRESSURE TREATED LUMBER WHERE LUMBER IS IN CONTACT WITH CONCRETE OR OUTSIDE OF BUILDING.

11.

A. SHEATHING FOR WALLS SHALL BE 1/4" THICK 32/16 SPAN RATING APA STRUCTURAL RATED PLYWOOD SHEATHING EXPOSURE 1.

B. SHEATHING FOR FLOORS SHALL 3/4" THICK 20' SPAN RATING APA STURDI-FLOOR.

ALL JOINTS IN SHEATHING SHALL BE STAGGERED. ALL EDGES IN FLOOR SHEATHING SHALL BE TONGUE & GROOVE. COMPLY WITH APA REQUIREMENTS FOR PLYWOOD FLOOR/ROOF DIAGRAM.

12. DESIGN AND DETAILING OF GLUE-LAMINATED MEMBERS AND ROUGH SAWN TIMBER MEMBERS, CONNECTIONS AND ACCESSORIES SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE NFPA "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION".

13. ROUGH SAWN TIMBERS SHALL BE TREATED AND FINISHED AS REQUIRED BY THE ARCHITECTURAL SPECIFICATIONS. WEATHER EXPOSED ENDS SHALL BE TREATED WITH CCA.

14. PLYWOOD FOR ROOF SHALL BE 5/8" THICK AND SHALL CONFORM TO APA PS 1 RATED SHEATHING 48/24, EXTERIOR, 48" X 96". PLYWOOD SHALL BE TWO SPAN (MINIMUM) CONTINUOUS. FACE GRAIN SHALL BE PERPENDICULAR TO SUPPORTS WITH A STAGGERED LAY-UP. PROVIDE TWO PANEL EDGE CLIPS BETWEEN SUPPORTS. NAIL PLYWOOD TO SUPPORTING MEMBERS WITH 8D NAILS AT 6" O.C. AT PANEL EDGES AND 12 O.C. AT INTERMEDIATE SUPPORTS. MINIMUM MODULUS OF ELASTICITY SHALL BE 1800000 PSI.

15. WOOD TRUSSES SHALL BE DESIGNED TO CONFORM TO NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR STRESS GRADED LUMBER AND ITS FASTENINGS" AND THE TRUSS PLATE INSTITUTE "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES". THE DESIGN CALCULATIONS AND DRAWINGS SHALL BEAR THE SEAL OF THE RESPONSIBLE REGISTERED PROFESSIONAL ENGINEER. ALL CHORDS MUST BE CUT FROM LUMBER BEARING THE PROPER GRADE MARK FOR THE MATERIAL SPECIFIED. CHORD LUMBER SHALL HAVE A COEFFICIENT OF VARIATION FOR THE MODULUS OF ELASTICITY OF 0.11 OR LESS. DESIGN DRAWINGS SHALL BE SUBMITTED FOR ALL TRUSSES INDICATING THE SPECIES, SIZES, AND STRESS GRADES OF LUMBER AND CONNECTOR PLATE SIZES TO BE USED IN THE FABRICATION OF THE TRUSSES. BEARING, ANCHORAGE AND BRACING DETAILS SHALL BE SHOWN. CONNECTOR PLATES SHALL BE MANUFACTURED FROM MATERIAL CONFORMING TO ASTM A446, GRADE A, AND SHALL GALVANIZED IN ACCORDANCE WITH ASTM A525, COATING DESIGNATION G60. IN HIGHLY CORROSIVE ENVIRONMENTS OR WHERE FIRE RETARDANT LUMBER IS SPECIFIED, STAINLESS STEEL CONNECTOR PLATES SHALL BE USED.

H. MASONRY VENEER ON WOOD STUDS

1. MASONRY SHALL CONFORM TO ASTM C-145. MORTAR SHALL CONFORM TO ASTM C270, TYPE S.
2. PROVIDE STUDS AS SHOWN ON THE DRAWING.
3. PROVIDE STUD LATERAL BRACING PER DRAWINGS OR AT 5'-0" O.C. MAXIMUM.
4. DOUBLE ALL STUDS AT JAMBS OF WINDOWS, DOORS, AND OTHER OPENINGS.
5. PROVIDE CORROSION RESISTANT 9 GAGE ADJUSTABLE WIRE TIES @ 16" O.C. EACH STUD. PROVIDE 1/2" GYPSUM WALL BOARD OR RIGID SHEATHING ON FACE OF STUDS. ATTACH WIRE TIES DIRECTLY TO STUDS AND NOT TO THE SHEATHING ALONE.

I. METAL STAIRS

1. STAIR ASSEMBLY SHALL BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD OF 100 PSF. STAIR TREADS SHALL BE DESIGNED TO SUPPORT A CONCENTRATED LOAD OF 300 POUNDS ON AN AREA OF 4 SQUARE INCHES APPLIED AT THE CENTER OF THE TREAD.
2. SHOP DRAWINGS SHALL BE SUBMITTED INDICATING LAYOUT OF STAIRS, PROFILES, ANCHORAGE AND CONNECTION DETAILS. DRAWINGS SHALL BEAR THE SEAL OF THE RESPONSIBLE REGISTERED PROFESSIONAL ENGINEER.
3. TREADS AND RISERS SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A611, GRADE B, MINIMUM 12 GAGE THICKNESS. FABRICATE STAIRS WITH CLOSED RISERS AND TREADS OF PAN CONSTRUCTION TO RECEIVE CONCRETE FILL. ATTACH TREAD PANS TO STRINGERS WITH CLIP ANGLES WELDED IN PLACE.

DESIGN LOAD SCHEDULE (POUNDS PER SQ. FT.)						
AREA COMPONENT	SUB ON GRADE	SECOND FLOOR	ROOF			
CONCRETE SLAB	65	-	-			
ROOF & INSULATION	-	-	5			
WOOD FRAMING	-	5	5			
CEILING	-	5	5			
COLLATERAL	20	15	5			
RETAIL	-	100	-			
TOTAL DEAD LOAD	85	25	20			
TOTAL LIVE LOAD	100	100	30			
TOTAL LOAD	185	125	50			

SNOW DESIGN LOAD SCHEDULE INTERNATIONAL BUILDING CODE (2009)			
ITEM	SYMBOL	VALUE	REFERENCE
GROUND SNOW LOAD	P _g	30	FIGURE 7.1
SNOW EXPOSURE FACTOR	C _e	0.9	TABLE 7.2
SNOW LOAD IMPORTANCE FACTOR	I _s	1.0	TABLE 15.2
THERMAL FACTOR	C _t	1.0	TABLE 7.3
FLAT-ROOF SNOW LOAD	P _f	23	SECTION 7.3
MINIMUM EQUIVALENT UNIFORM LOAD	-	30	RE DESIGN LOAD SCHEDULE ABOVE
OCCUPANCY CATEGORY	-	II	TABLE 15-1

LATERAL LOAD DESIGN SCHEDULE INTERNATIONAL BUILDING CODE (2009) ASCE 7-10			
WIND LOAD			
ITEM	SYMBOL	VALUE	REFERENCE
BASIC WIND SPEED (3 SEC. GUST)	V	90	FIGURE 26.5-1A
WIND EXPOSURE CATEGORY	-	B	SECTION 26.7.3
MINIMUM DESIGN VALUE (W _H +L _W)	-	20 PSF	SECTION 27.4
OCCUPANCY CATEGORY	-	II	TABLE 15-1
IMPORTANCE FACTOR	-	1.15	TABLE 15.2
SEISMIC LOAD			
ITEM	SYMBOL	VALUE	REFERENCE
IMPORTANCE FACTOR	I _E	1.25	TABLE 15-2
SHORT PERIOD SPECTRAL ACCELERATION	S _{DS}	0.130g	SECTION 11.4.4
(1) SECOND PERIOD SPECTRAL ACCELERATION	S _{D1}	0.083g	SECTION 11.4.4
SEISMIC DESIGN CATEGORY	-	B	TABLE 11.6-1 & 11.6-2
SITE CLASSIFICATION	S	D	SECTION 20.3
BASIC STRUCTURAL SYSTEM	-	BEARING WALL SYSTEM	TABLE 12.2-1
BASIC SEISMIC-RESISTING SYSTEM	-	LIGHT FRAME WALLS	TABLE 12.2-1
RESPONSE MODIFICATION FACTOR	R	2	TABLE 12.2-1
DEFLECTION AMPLIFICATION FACTOR	C _d	2	TABLE 12.2-1
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE		SECTION 12.8
MAPPED SHORT PERIOD SPECTRAL ACCELERATION	S _s	0.122g	FIGURE 22-1
MAPPED (1) SEC. PERIOD SPECTRAL ACCELERATION	S ₁	0.052g	FIGURE 22-2
BASE SHEAR	V	16.4K	SECTION 12.8
OCCUPANCY CATEGORY	-	II	TABLE 15-1

WALL COMPONENTS & CLADDING: DESIGN WIND PRESSURES (LB/SQ. FT.)
(INTERNAL PRESSURE COEFFICIENTS, G_{CPI}=±0.18)

TRIBUTARY AREA (SQ. FT.)	LESS THAN 10	10 TO 20	20 TO 50	50 TO 100	100 TO 500
MAIN FIELD (ZONE 4)	+14.6/-15.9	+14.0/-15.3	+13.4/-14.6	+12.8/-14.0	+10.9/-12.2
CORNER (ZONE 5)	+14.6/-19.6	+14.0/-19.0	+13.4/-17.1	+12.8/-15.9	+10.9/-12.2

POSITIVE PRESSURE: ACTING TOWARD SURFACE
NEGATIVE PRESSURE: ACTING AWAY FROM SURFACE
CORNER ZONE: WITHIN 5' FROM BUILDING CORNERS ALONG NORTH/SOUTH/EAST/WEST FACES.
NOTE: 1) ZONE DESIGNATIONS AS PER ASCE7.



3930 Pender Drive, Suite 175
Fairfax, VA 22030
703.885.5500
703.890.5006-FAX
ernst_info@aol.com
BEI NO. 157100

SEAL

REVISIONS	
DATE	REMARKS

ISSUED FOR PERMIT
4-3-17

THIS DRAWING IS THE PROPERTY OF
S.E. Wagner, Architect

1304 SAVANNAH RD
LEWES, DE 19958
p.302.644.8884
f.302.644.8885
design@sewagner.com

4252 MANOR DRIVE
MARSHALL, VA 20115
p.540.364.6399
f.540.364.0446
sewain@aol.com

© 2015 S.E. WAGNER, ARCHITECT

CHURCH ROAD ANIMAL HOSPITAL

VIRGINIA

WARRENTON

STRUCTURAL NOTES & DESIGN TABLES

DATE
4-3-17

FILE
-

SHEET NO.

S0.1

FOOTING SCHEDULE			
MARK	SIZE	DEPTH	REINFORCING (BOTTOM, UNO)
SOIL BEARING PRESSURE 1500 PSF			
F50	5'-0" x 5'-0"	12"	(6) #5 (B) EW
SOIL BEARING PRESSURE 1500 PSF			
F20.12	24" WIDE	12" DEEP	(3) #4 LW (B) CONT. & #4 @ 24" SW (B)
F36.16	42" WIDE	18" DEEP	(4) #5 LW (B) CONT. & #4 @ 24" SW (B)

NOTES:

1. ALL FOOTING REINFORCING IS BOTTOM STEEL/FOOTING, UNO.
2. CONCRETE COMPRESSIVE STRENGTH $f'_c = 3000$ PSI, $f_y = 60$ KSI.
3. SOIL BEARING PRESSURE = SEE ABOVE.
4. SHORT WAY BARS AND/OR BARS PERPENDICULAR TO WALLS SHALL BE PLACED AT THE BOTTOM LAYER.

NOTES:

1. FLOOR SHALL BE 4" SLAB ON GRADE REINFORCED w/ 6x6-14xw14 OVER 10 MIL POLYETHYLENE VAPOR BARRIER AND MINIMUM 4" OF WASHED GRAVEL.
2. TOP OF SLAB SHALL BE AT ELEVATION 2995.0' (WHEREIN UNLESS NOTED).
3. TOP OF FOOTING ELEVATIONS ARE SHOWN THUS (0000.0) ON PLAN.
4. DROP FOOTING ELEVATIONS AS REQUIRED TO OBTAIN DESIGN SOIL BEARING OR TO CLEAR UNDERGROUND PIPING. SEE PLUMBING DRAWINGS FOR INVERT ELEVATIONS.
5. SEE SITE PLAN FOR ALL EXTERIOR WORK SUCH AS SIDEWALKS, PAVING, CURBS AND GUTTERS, ETC.
6. DIMENSIONS DENOTES SLAB CONTROL JOINT. SEE TYPICAL DETAIL ON S20.
7. GENERAL CONTRACTOR TO COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS AND RESOLVE ALL DISCREPANCIES WITH THE ARCHITECT PRIOR TO POURING CONCRETE.



THIS DRAWING IS THE PROPERTY OF

S.E. Wagner, Architect

4252 MANOR DRIVE
MARSHALL, VA 20115
p. 540.364.6399
f. 540.364.0446
sewain@aol.com

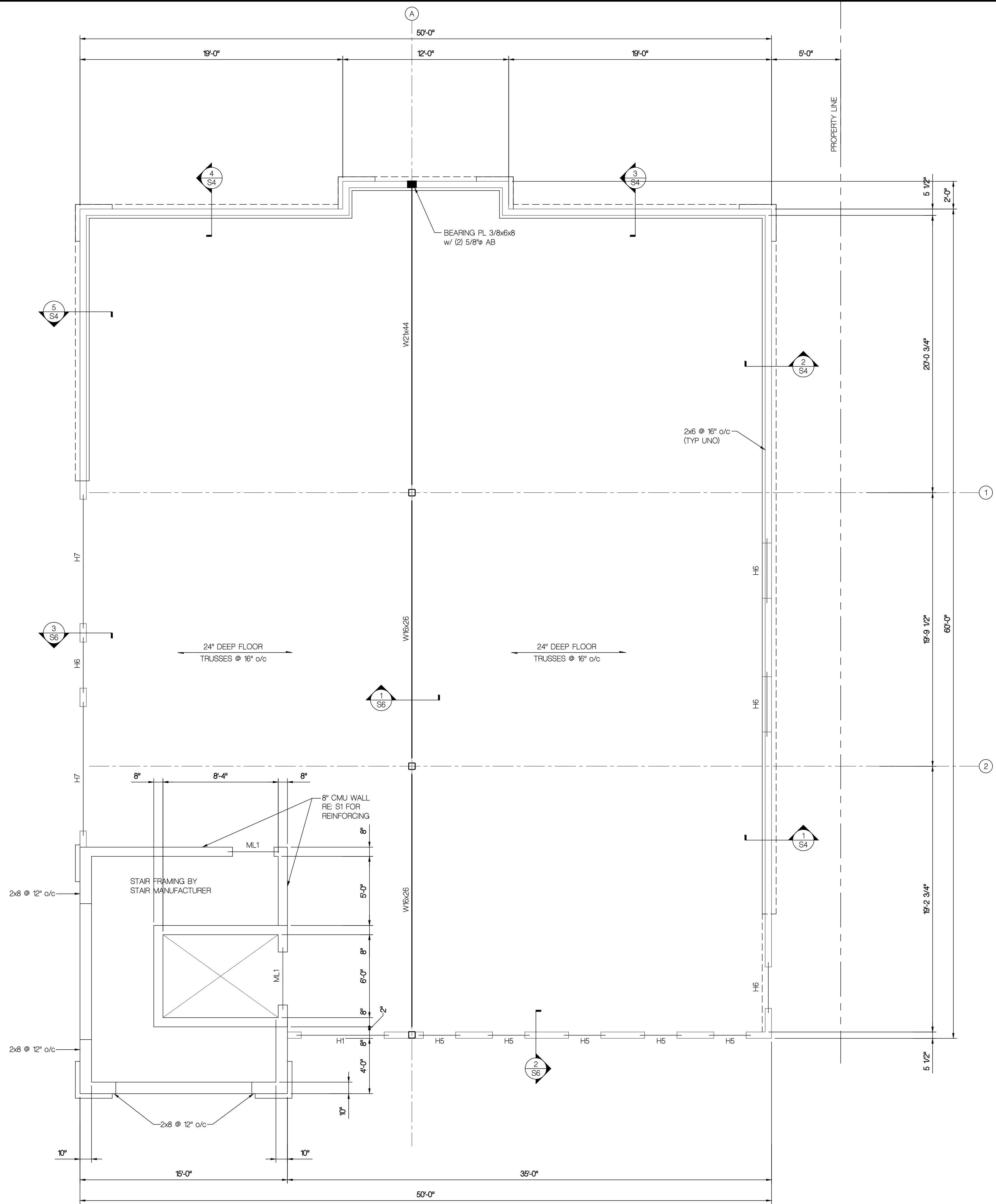
1304 SAVANNAH RD
LEWES, DE 19058
p. 302.644.8884
f. 302.644.8885
design@marva@verizon.net

© 2015 S.E. WAGNER, ARCHITECT

CHURCH ROAD ANIMAL HOSPITAL	WARRENTON	VIRGINIA
FOUNDATION & FIRST FLOOR PLAN		

DATE 4-3-17	SHEET NO.
FILE —	S1

©2015 DESIGN DELAMARVA / S.E. WAGNER, ARCHITECT. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER. NOSE ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF DESIGN DELAMARVA / S.E. WAGNER, ARCHITECT.



1 SECOND FLOOR FRAMING PLAN
SCALE : 1/4" = 1'-0"

NOTES:

- FLOOR SHALL BE 5/8" T&G PLYWOOD NAILED & GLUED TO WOOD TRUSSES.
- TOP OF FLOOR TO BE AT ELEVATION 31150' (+12'-0") UNLESS NOTED OTHERWISE.
- PROVIDE SOLID WOOD BLOCKING AT ALL FLOOR PENETRATIONS SMALLER THAN TRUSS SPACING.
- FRAMING PLAN IS NOT TO BE USED TO QUANTIFY EXACT NUMBER OF TRUSSES OR FRAMING MEMBERS. TRUSS MANUFACTURER TO PROVIDE ADDITIONAL TRUSSES AS NECESSARY TO PROPERLY SUPPORT ALL CONDITIONS DESCRIBED IN THE CONTRACT DOCUMENTS. TRUSS MANUFACTURER TO VALUE ENGINEER TRUSSES FOR MOST ECONOMICAL SPACING.
- DUCTWORK, WIRING & PLUMBING PASSING HORIZONTALLY OR VERTICALLY THRU FLOOR TRUSSES TO BE COORDINATED BY THE TRUSS SUPPLIER WITH THE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND IS TO BE APPROVED BY THE CONTRACTOR.
- LIVE LOAD DEFLECTION OF FLOOR TRUSSES TO BE LIMITED TO L/360 MAXIMUM. ADDITIONAL DESIGN DEAD LOAD OF 80 PLF FOR NON-LOAD BEARING PARTITIONS TO BE INCLUDED WHERE APPLICABLE.



3930 Pender Drive, Suite 175
Fairfax, VA 22030
703.890.5000
703.890.5006-FAX
email: info@beicons.com
BEI NO. 1571000

SEAL

REVISIONS	
DATE	REMARKS

ISSUED FOR
PERMIT
4-3-17

THIS DRAWING IS THE PROPERTY OF
S.E. Wagner, Architect

4252 MANOR DRIVE
MARSHALL, VA 20115
p.540.364.6399
f.540.364.0446
sewaia@aol.com

1304 SAVANNAH RD
LEWES, DE 19958
p.302.644.8884
f.302.644.8885
design@delmarva@verizon.net

© 2015 S.E. WAGNER, ARCHITECT

CHURCH ROAD ANIMAL HOSPITAL

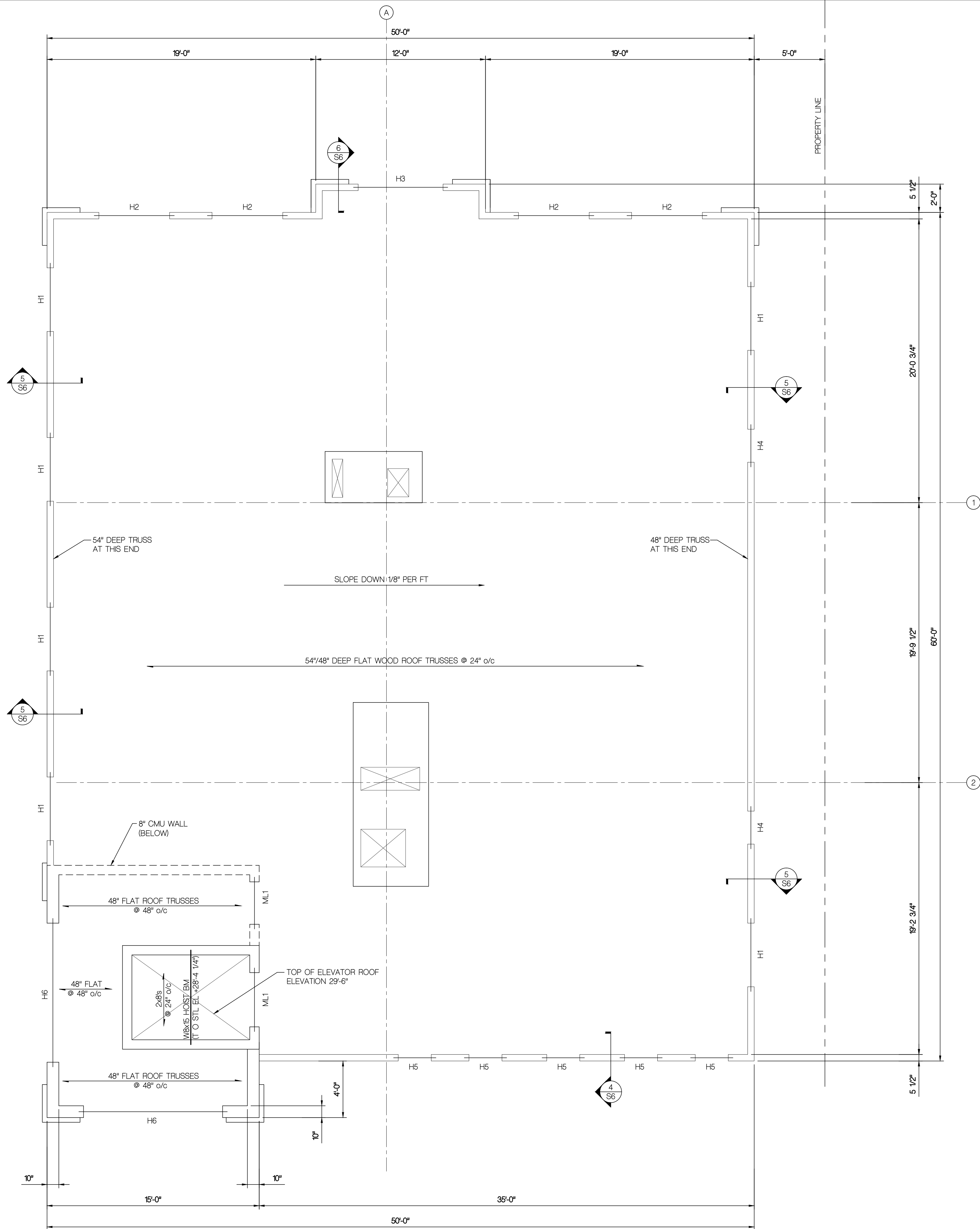
VIRGINIA

WARRENTON

SECOND FLOOR FRAMING PLAN

DATE 4-3-17	SHEET NO. S2
FILE -	

© 2015 DESIGN DELAMARVA / S.E. WAGNER, ARCHITECT. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER. NOSE ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF DESIGN DELAMARVA / S.E. WAGNER, ARCHITECT.



WOOD HEADER SCHEDULE		
H1	(2) 2 x 12	
H2	(2) 2 x 6	
H3	(3) 2 x 6	
H4	(2) 2 x 8	
H5	(3) 2 x 4	
H6	(2) 2 x 12	
H7	(3) 1 3/4 x 16 LVL 18E	

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

- NOTES:
- 1) ROOF TO BE 3/4" T&G PLYWOOD (GLUED AND NAILED) OVER WOOD ROOF TRUSSES @ 2'-0" o/c.
 - 2) TRUSS BEARING TO BE AT ELEVATION +22'-0" UNLESS NOTED OTHERWISE.
 - 3) TRUSS MANUFACTURER TO PROVIDE ALL TEMPORARY AND PERMANENT BRIDGING AS REQUIRED FOR STABILITY OF ROOF SYSTEM.
 - 4) GENERAL CONTRACTOR TO SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS OF WOOD TRUSSES, SIZE AND LOCATION OF THE PERMANENT BRIDGING, AND ALL ADDITIONAL FRAMING MEMBERS REQUIRED TO MATCH THE ROOF PROFILE SHOWN ON THE ARCHITECTURAL DRAWINGS. CALCULATIONS AND SHOP DRAWINGS TO BE SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF VIRGINIA.
 - 5) PROVIDE DOUBLE STUDS AT EACH END OF OPENINGS UNLESS NOTED OTHERWISE.
 - 6) SEE MECHANICAL DRAWINGS FOR LOCATION AND WEIGHT OF ALL MECHANICAL UNITS. TRUSS MANUFACTURER TO DESIGN TRUSSES FOR ADDITIONAL LOADS OF MECHANICAL UNITS.
 - 7) OVERBUILT AREAS MAY BE CONSTRUCTED FROM TRUSSES OR 2x FRAMING AT 24" o/c.



THIS DRAWING IS THE PROPERTY OF
S.E. Wagner, Architect

4252 MANOR DRIVE
MARSHALL, VA 20115
p.540.364.6399
f.540.364.0446
sewain@aol.com

1304 SAVANNAH RD
LEWES, DE 19958
p.302.644.8884
f.302.644.8885
design@delmarva@verizon.net

© 2015 S.E. WAGNER, ARCHITECT

CHURCH ROAD ANIMAL HOSPITAL

VIRGINIA

WARRENTON

ROOF FRAMING PLAN

DATE
4-3-17

FILE
-

SHEET NO.

S3

SEAL

REVISIONS	
DATE	REMARKS

ISSUED FOR
PERMIT
4-3-17

[illegible]

PLYWOOD SUB-FLOORING
 24" WOOD FLOOR TRUSSES
 HANGERS BY TRUSS MANUF.
 2x6 STUD WALL RE: PLAN
 FINISH GRADE RE: CIVIL DWGS
 #6 @ 12" o/c VERT OF
 #4 @ 10" o/c HORIZ EF
 #4 @ 10" o/c VERT IF
 (1) #4 CONT
 #4 @ 12" o/c
 2'-0"
 1'-0"
 (5) #5 CONT
 #7 @ 6" o/c
 3/8"
 #6 @ 12" o/c
 1'-0"
 (8) #5 CONT
 4'-6"
 1'-0"
 3'-0"
 8'-6"

This structural drawing illustrates the reinforcement details for a wall and floor assembly. The wall is constructed with 2x6 studs and is reinforced with #6 bars at 12" on center vertically and #4 bars at 10" on center horizontally. The floor is made of 24" wood floor trusses with plywood sub-flooring. The drawing shows the intersection of the wall and floor, with reinforcement bars extending into the floor slab. The floor slab is reinforced with #5 bars at 10" on center. The drawing also shows the finish grade and civil dwgs.

Key components and labels include:

- PLYWOOD SUB-FLOORING
- 24" WOOD FLOOR TRUSSES
- 2x6 STUD WALL RE: PLAN
- FINISH GRADE RE: CIVIL DWGS
- #6 @ 12" o/c VERT OF
- #4 @ 10" o/c VERT IF
- #4 @ 10" o/c HORIZ EF
- #7 @ 6" o/c
- #6 @ 12" o/c
- (1) #4 CONT
- #4 @ 12" o/c
- 2'-0"
- 1'-0"
- 1'-0"
- 3'-3"
- 1'-0"
- 5'-9"
- 10'-0"
- (4) #5 CONT
- (10) #5 CONT

[illegible]

The drawing shows a cross-section of a wall and floor assembly. Key components and dimensions include:

- 24" WOOD FLOOR TRUSSES**: Located at the top left, supporting the floor structure.
- PLYWOOD SUB-FLOORING**: A layer above the trusses.
- HANGERS BY TRUSS MANUF**: Connectors for the trusses.
- 2x6 STUD WALL RE: PLAN**: The main vertical wall structure.
- FINISH GRADE RE: CIVIL DWGS**: The ground level reference.
- Reinforcement**:
 - #6 @ 12" o/c VERT OF**: Vertical reinforcement in the wall.
 - #4 @ 10" o/c VERT IF**: Vertical reinforcement in the floor slab.
 - #4 @ 10" o/c HORIZ EF**: Horizontal reinforcement in the floor slab.
 - #7 @ 6" o/c**: Reinforcement in the wall near the base.
 - #6 @ 12" o/c**: Reinforcement in the wall near the base.
 - (1) #4 CONT**: Continuation of reinforcement from the floor into the wall.
 - (4) #5 CONT**: Continuation of reinforcement from the floor into the wall.
 - (10) #5 CONT**: Continuation of reinforcement from the floor into the wall.
- Dimensions**:
 - 12'-0"**: Total height of the wall section.
 - 10'-0"**: Total width of the floor section.
 - 3'-3"**, **1'-0"**, **5'-9"**: Horizontal dimensions of the floor section.
 - 2'-0"**: Horizontal dimension of the floor slab.
 - 1'-0"**: Vertical dimension of the wall section.
 - 1'-0"**: Vertical dimension of the wall section.

FINISH GRADE RE: CIVIL DWGS

#4 @ 12" o/c VERT

#4 @ 12" o/c HORIZ

DOWELS TO MATCH VERT REINFORCING

VARES 5'-0" MAX

2'-6" MIN

1'-0"

9" 8" 2'-4" 3'-9"

(4) #5 CONT

#6 @ 12" o/c

CONT L4x4x3/8" w/
 3/4" ANCHOR BOLTS
 @ 2'-0" o/c

#4 @ 12" o/c

3'-0"

1'-0"

2'-0"

12" CONCRETE
 WALL (TYP)

EQUAL

EQUAL

8" SPLIT FACE BLOCK
 w/ #4 @ 32" o/c
 FULL HEIGHT

FINISHED GRADE
 SEE CIVIL DWGS

#4 @ 12"
 EF EW (TYP)

4'-0" VERIFY W/

ELEVATOR MANUFACTURER

PROVIDE DOWELS TO
 MATCH VERTICAL
 REINFORCING (TYP)
 AP 13 Ld

1'-0"

3" TYP

2x2' OPENING
 FOR HYDRAULIC
 ELEVATORS ONLY

1'-0" 1'-0" 1'-0" 1'-0"

#4 @ 12"
 EW (T&B)

SEE PLAN
 FOR ELEVATION

(2) #5 (T&B) AT EACH
 CORNER EACH ELEVATOR

SEE ARCH DWGS

8" CMU WALL
w/ #4 @ 32" O/C
FULL HEIGHT

#4 @ 12" O/C

3'-0"

6"

#4 @ 12"
EF EW (TYP)

SEE PLAN
FOR ELEVATION

4'-0" ELEVATOR MANUFACTURER
VERIFIED WALL

1'-0" 1'-0"

[illegible]

Structural drawing showing a cross-section of a reinforced concrete slab and column. The column is 1'-0" wide and 1'-6" high. The slab is 10'-0" wide and 5'-9" deep. Reinforcement includes #4 bars at 12" o/c, #6 bars at 12" o/c, and #5 bars at 12" o/c. A 2'-0" section of the slab is shown with a 1'-0" wide column. The slab is supported by a 1'-0" wide column. The drawing is labeled with dimensions and reinforcement details.

[illegible]

8" CMU WALL
w/ #4 @ 32" o/c

1/2" PREMOLED
JOINT FILLER
w/ SEALANT

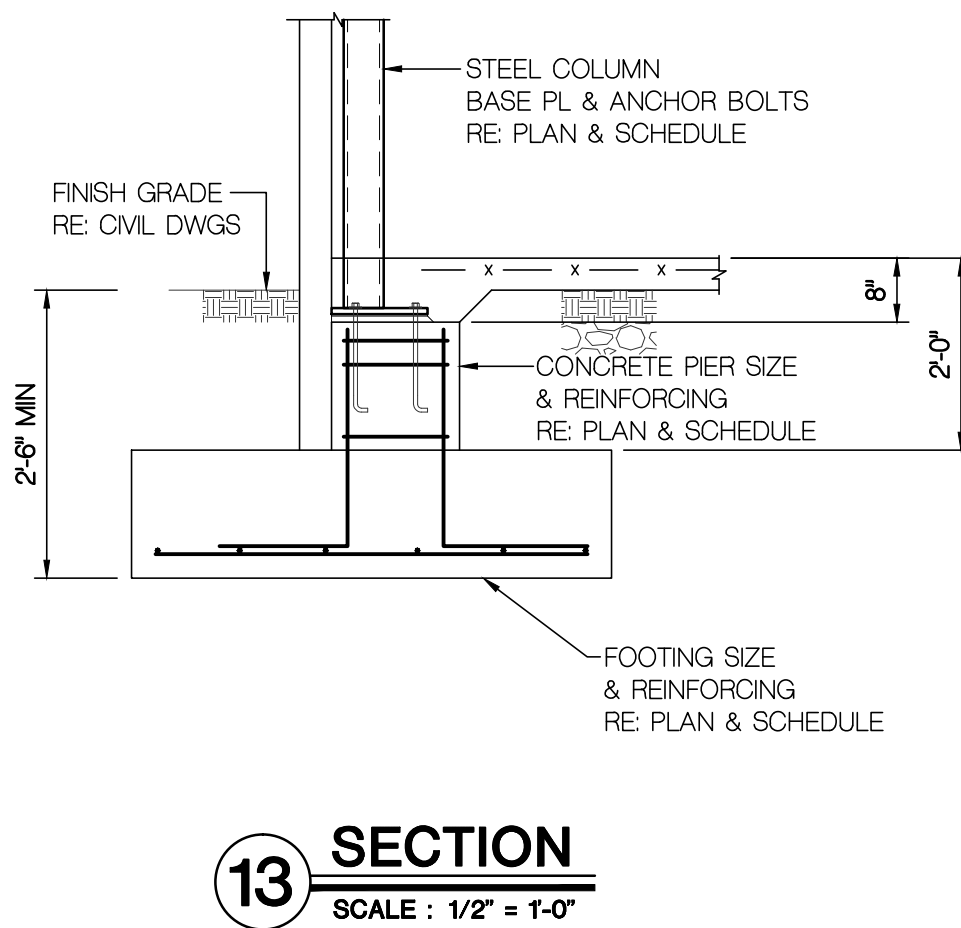
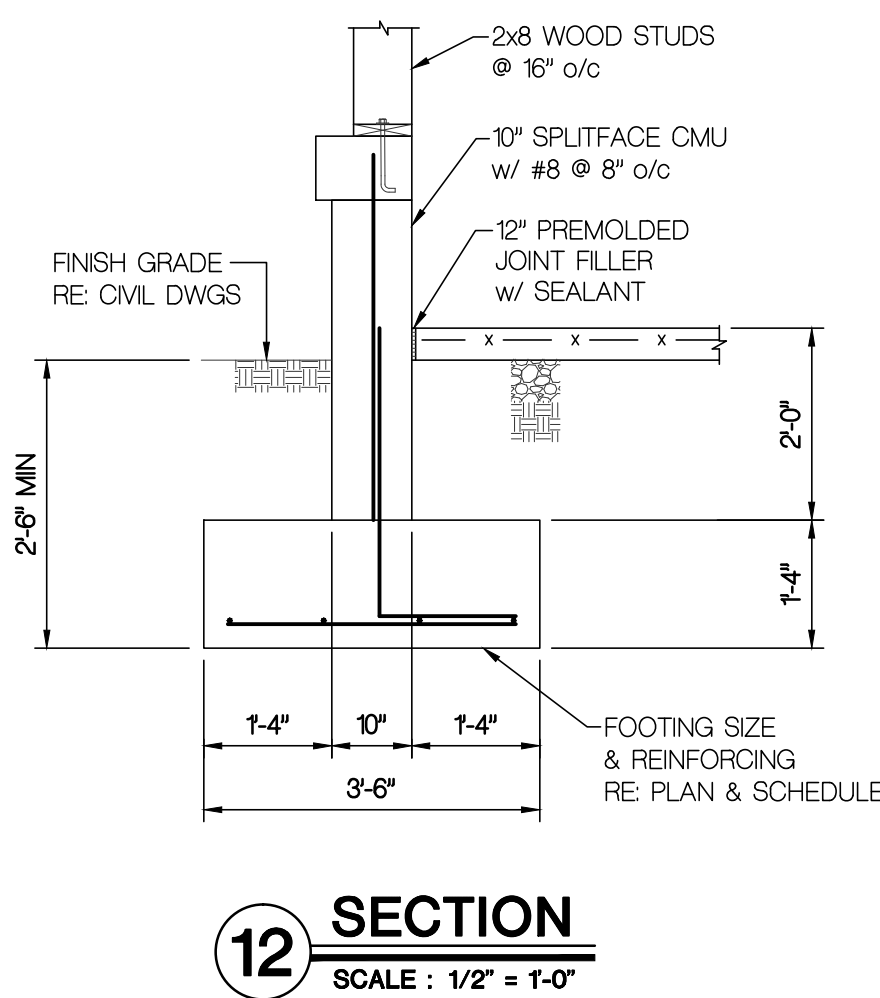
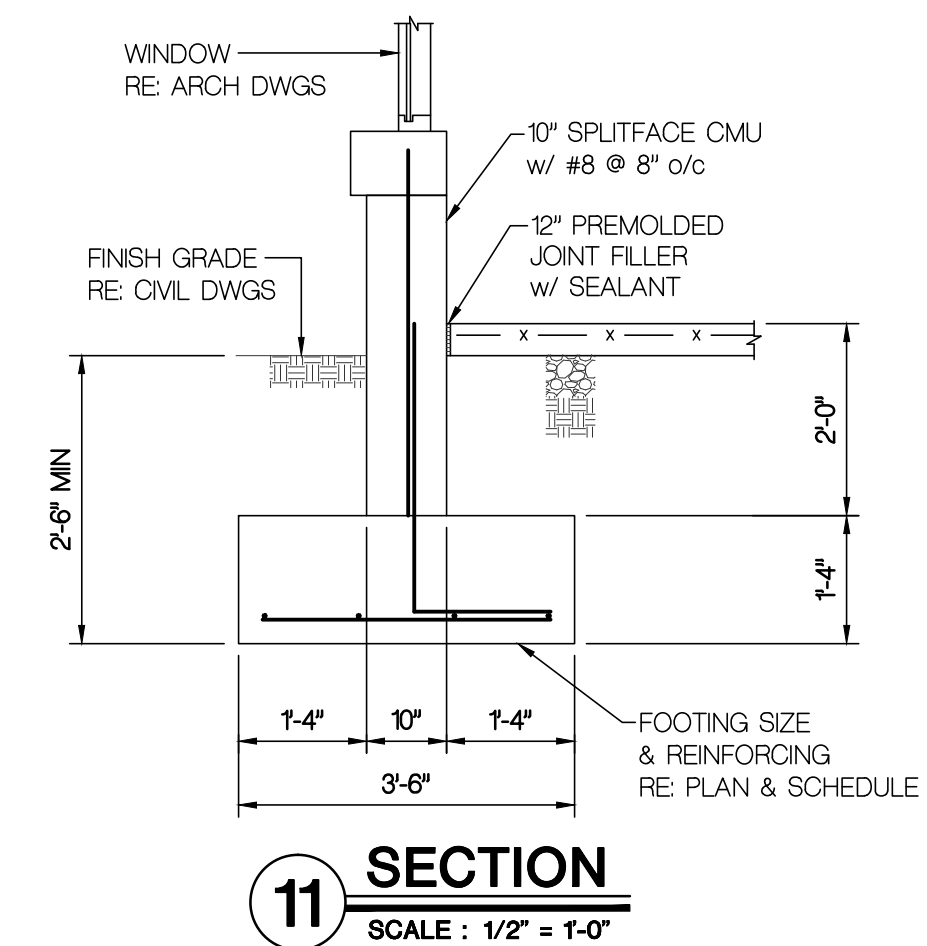
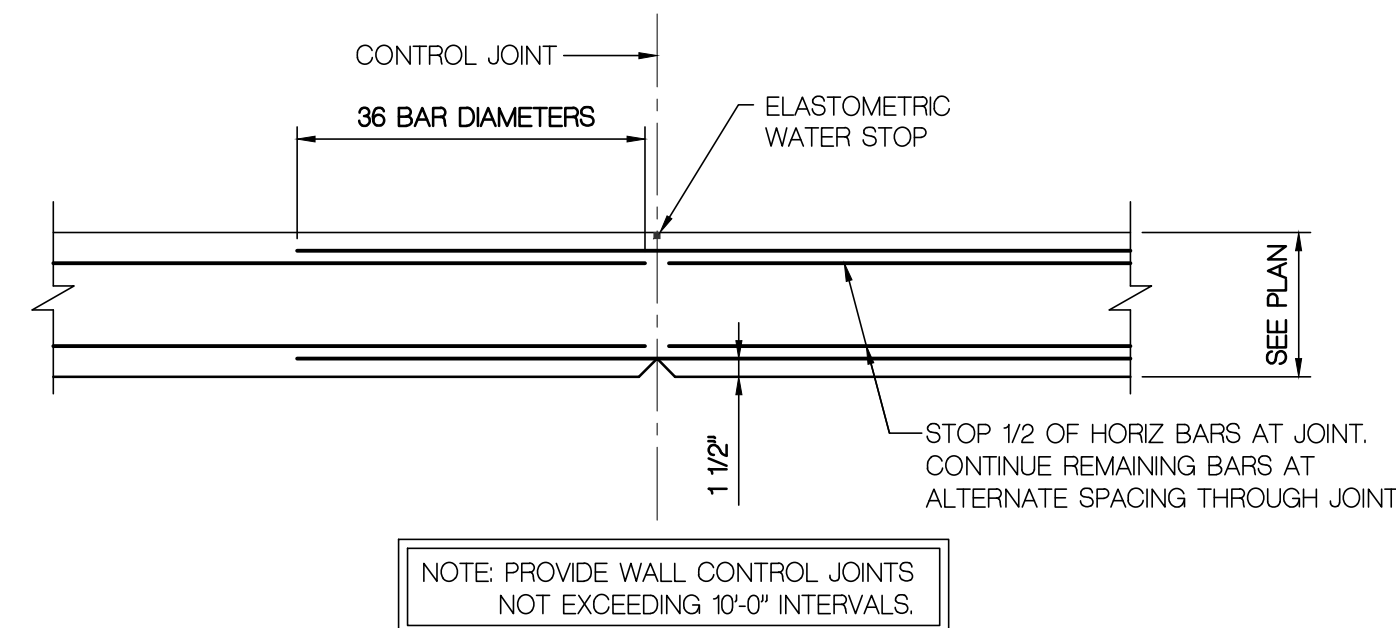
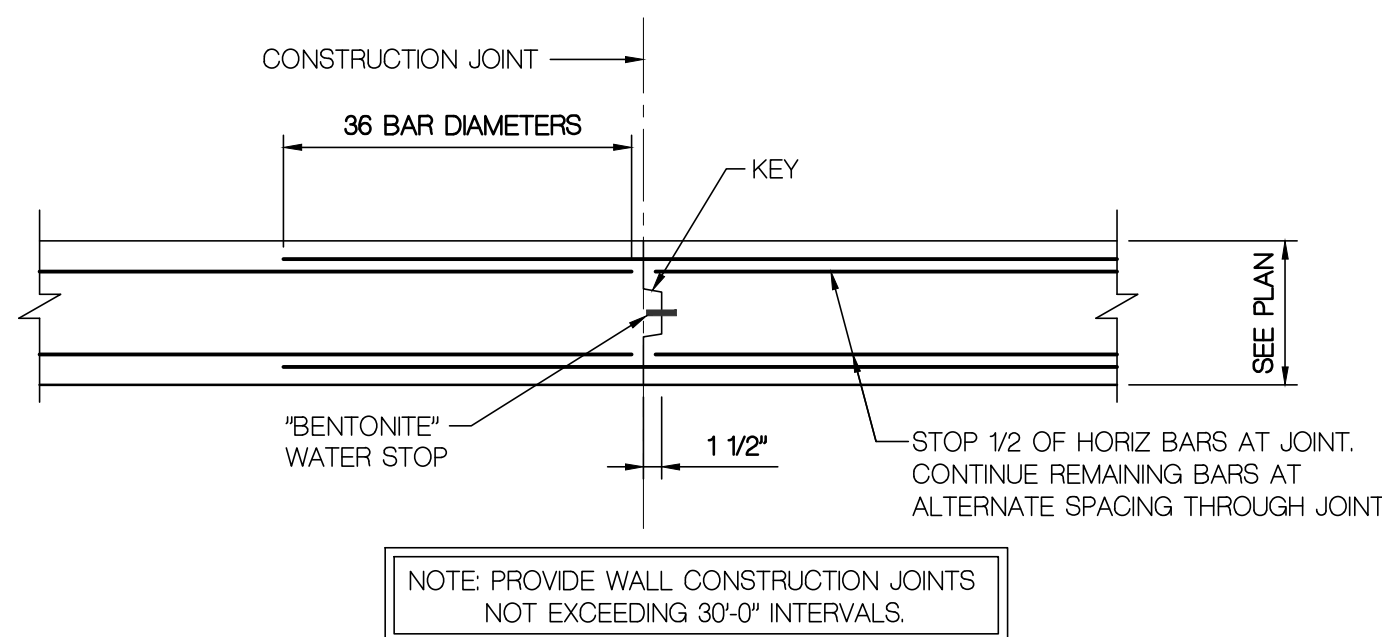
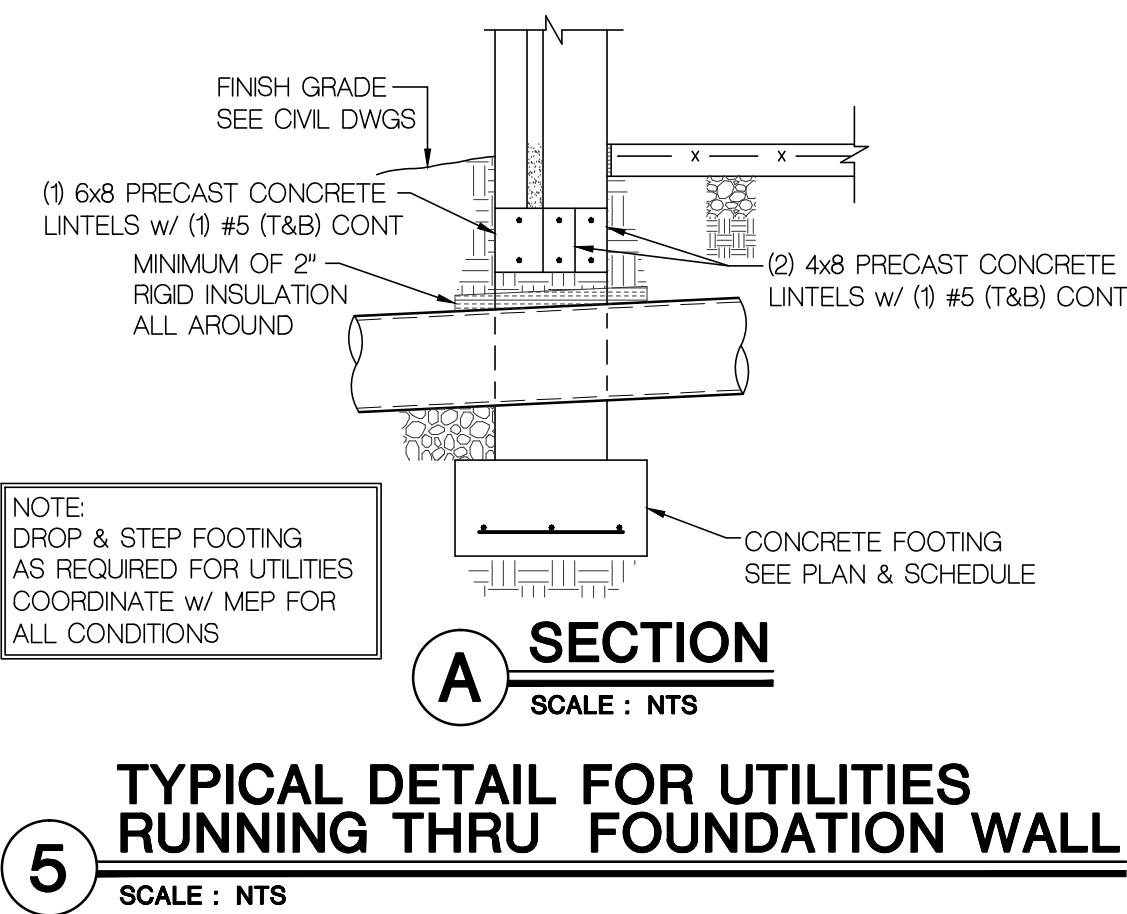
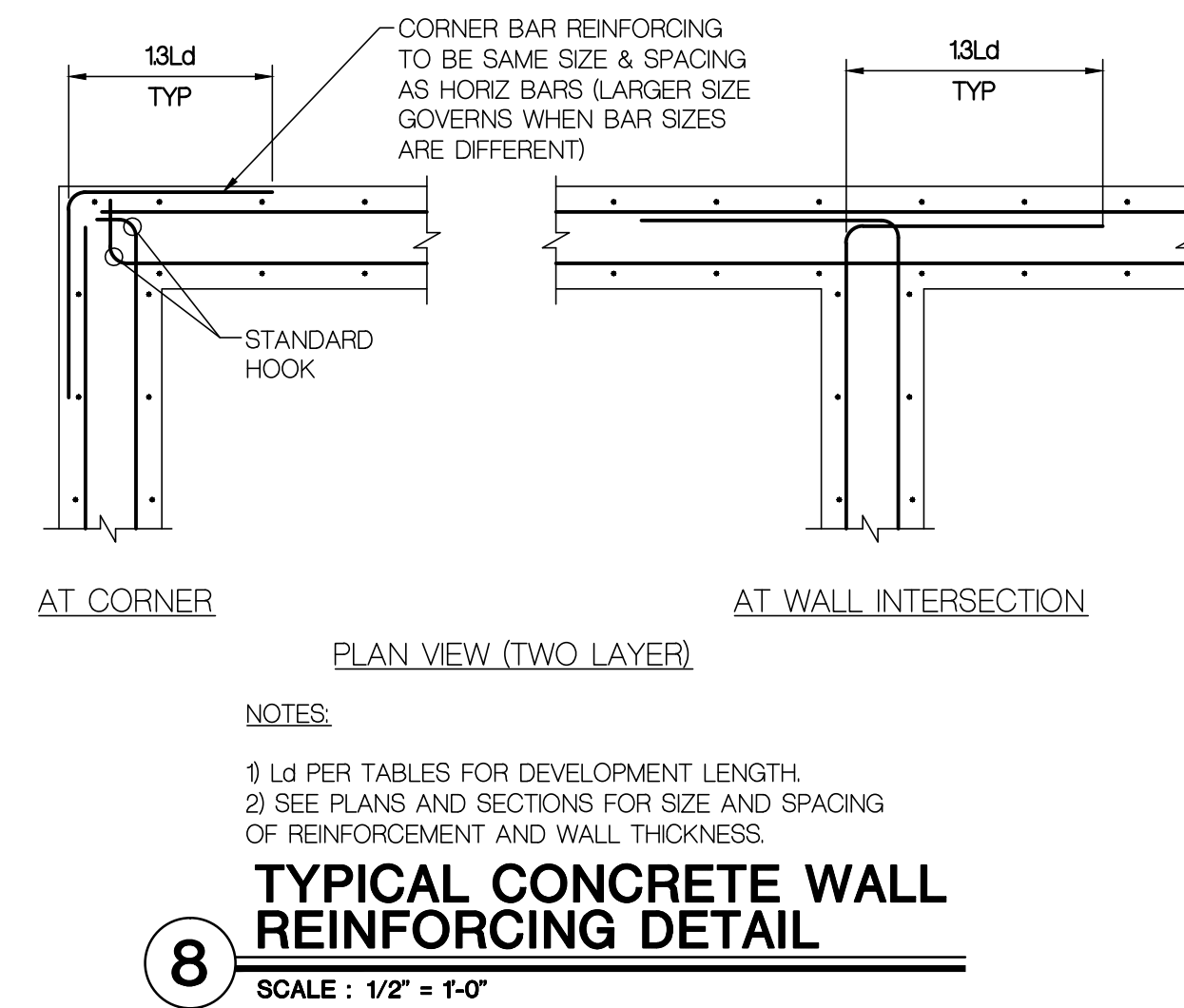
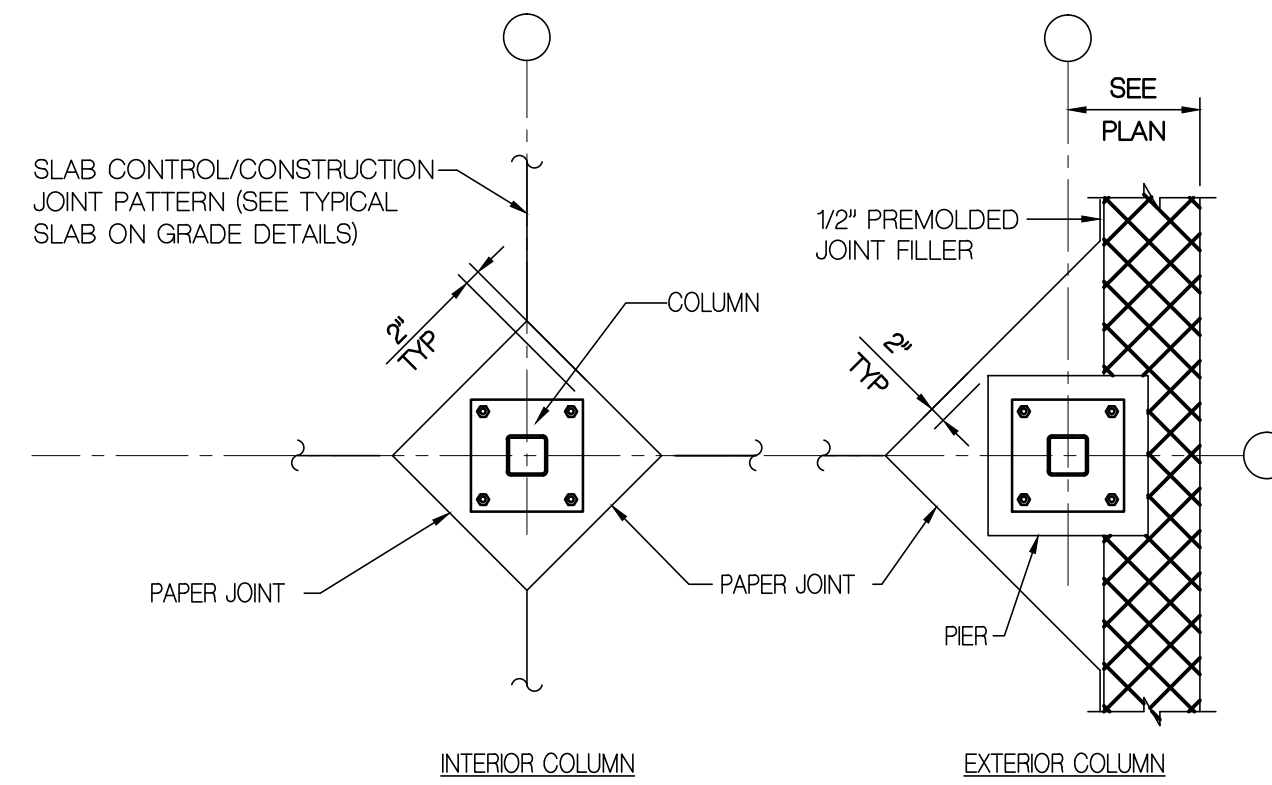
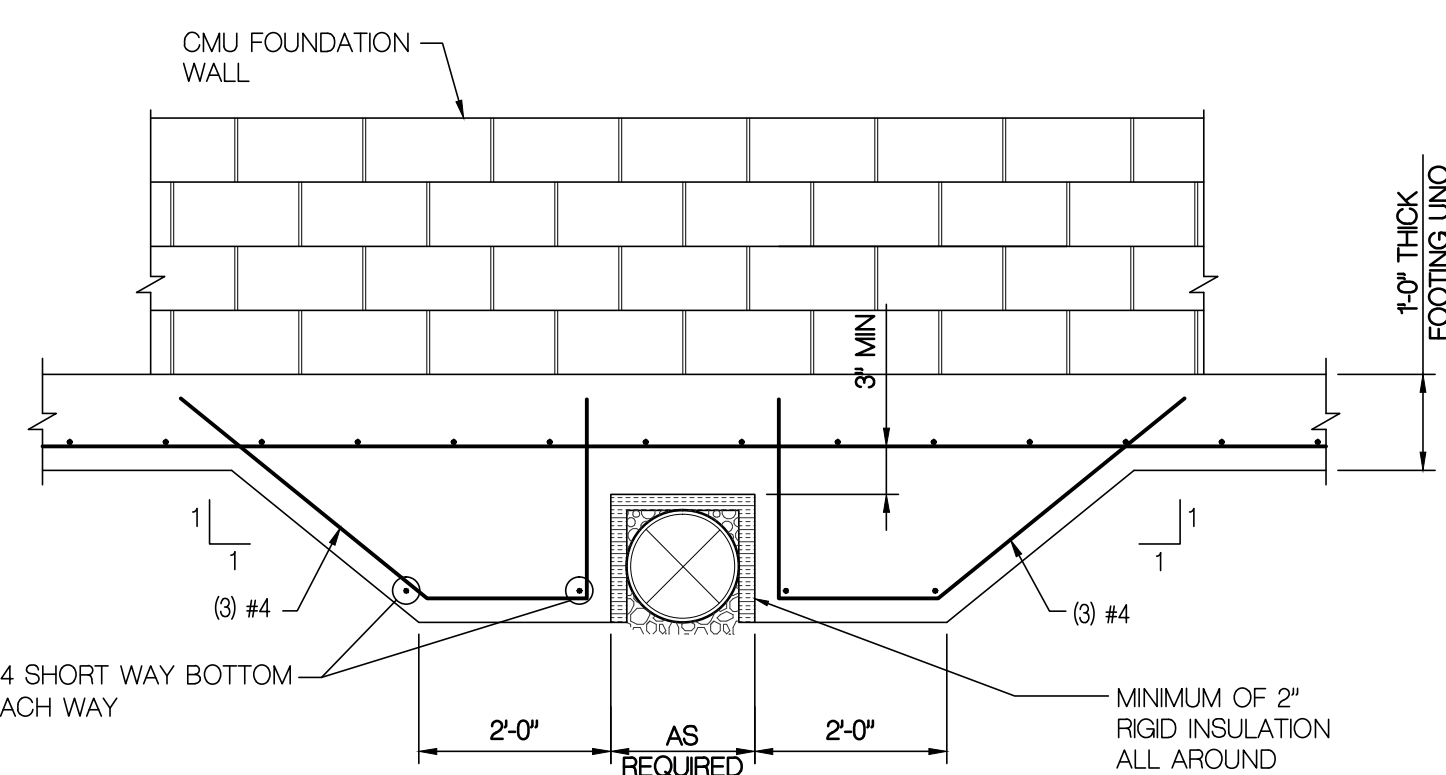
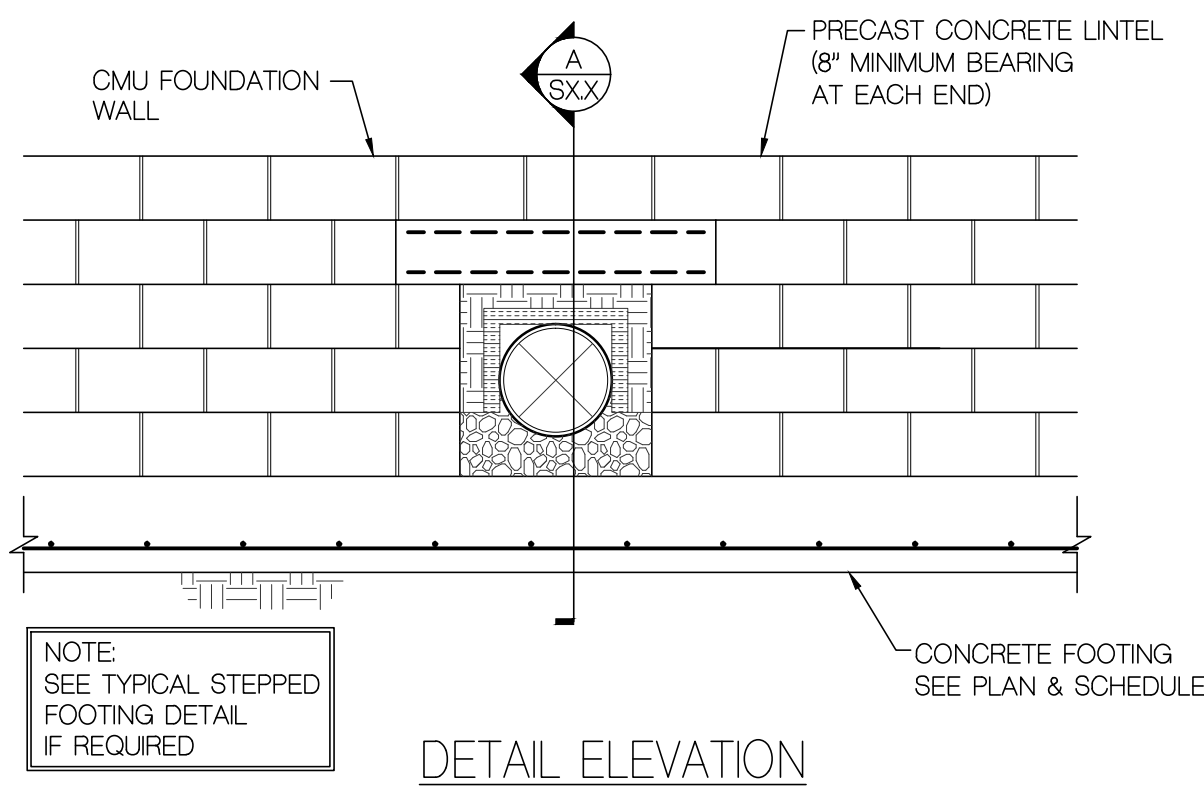
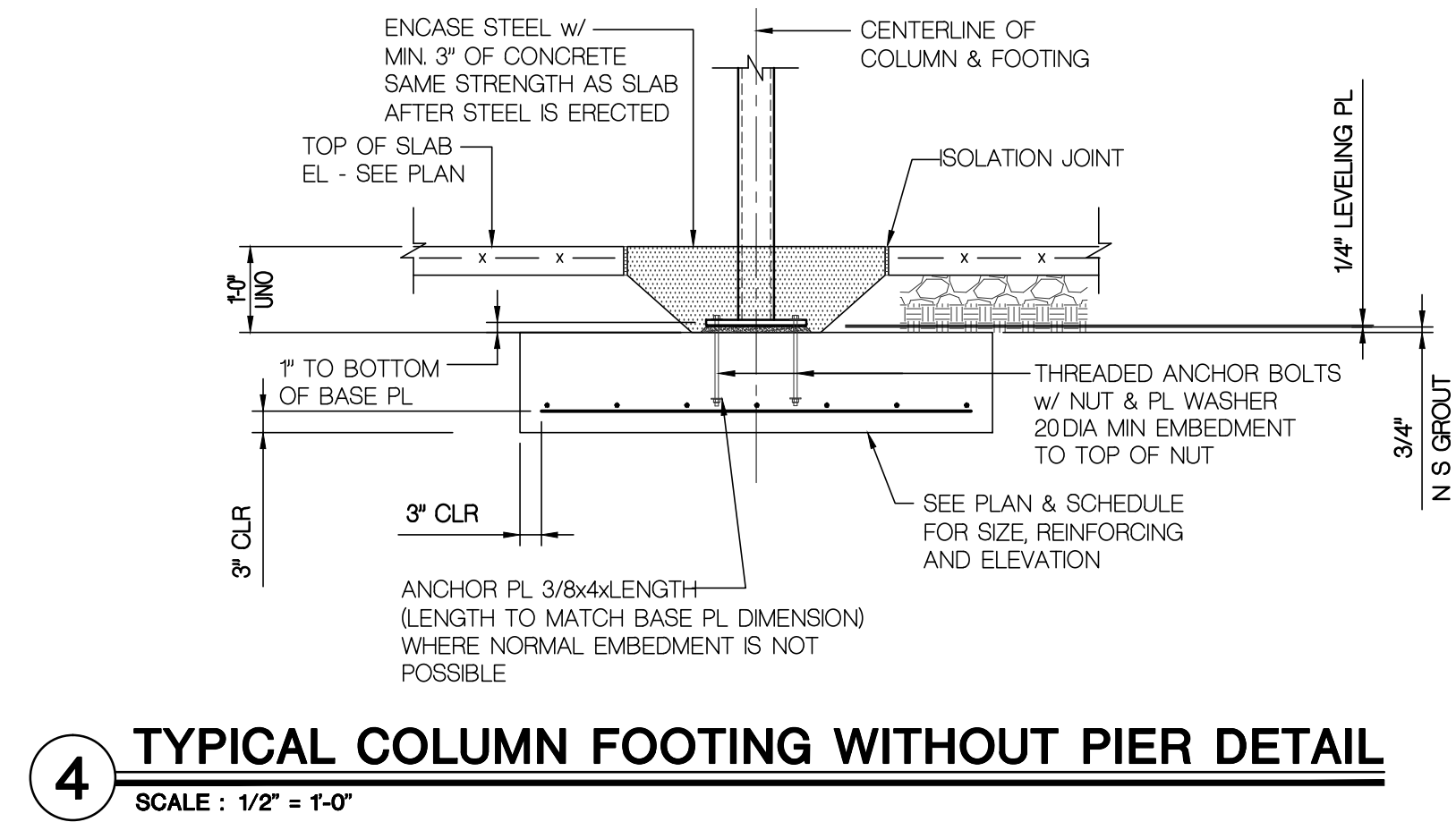
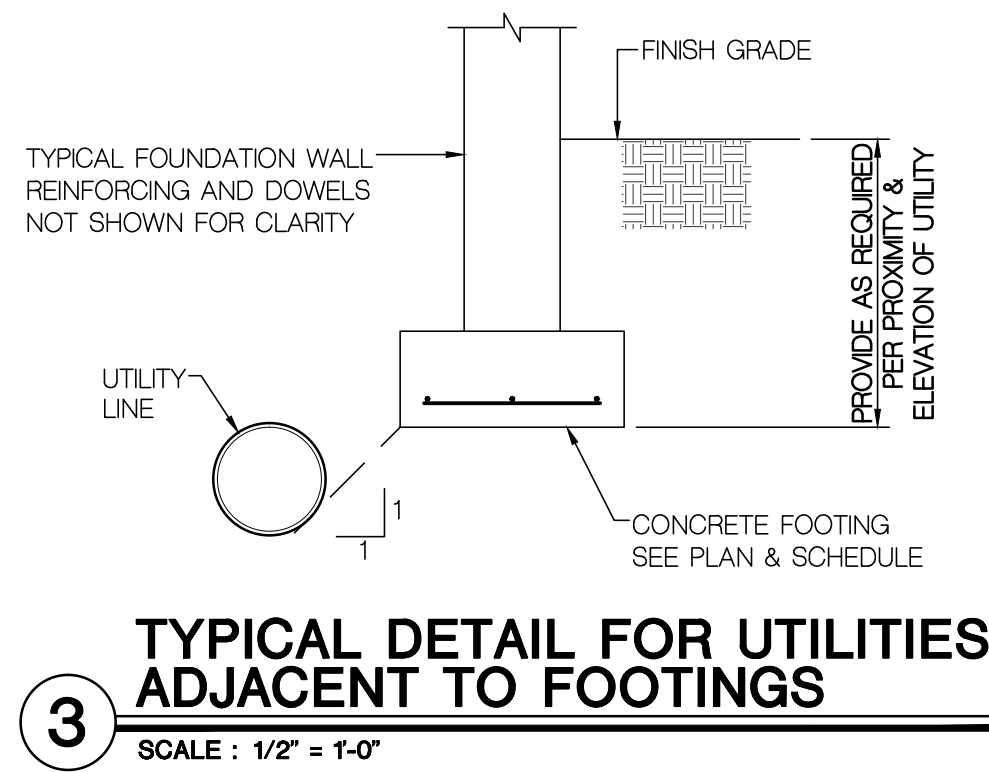
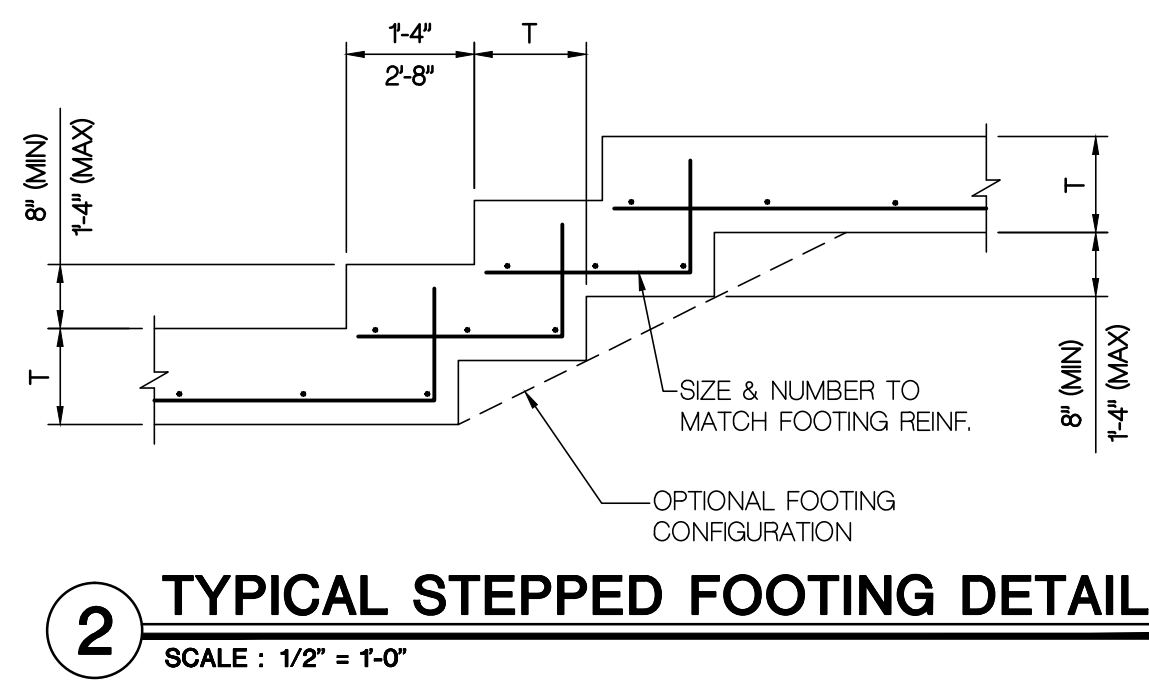
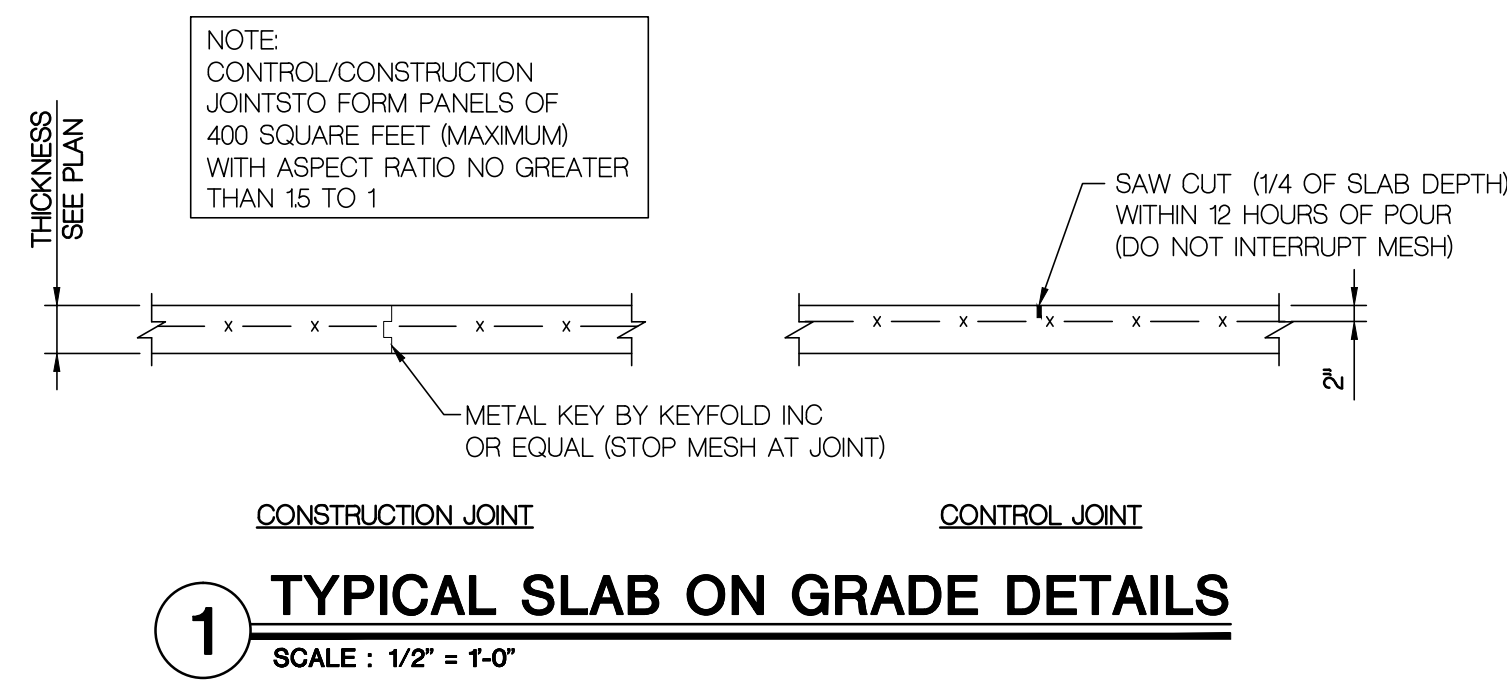
3" CLR

SEE PLAN/SCHEDULE
FOR FOOTING SIZE
REINFORCEMENT EVALUATION

 **BEI**
Structural Engineers

S4

2015 DESIGN DELIVERABLE / S.E. WAGNER, ARCHITECT EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER. NONE ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF DESIGN DELIVERABLE / S.E. WAGNER, ARCHITECT.



3930 Pender Drive, Suite 175
Fairfax, VA 22030
703.886.5500
703.886.5506-FAX
email: info@beicons.com
BEI NO. 1571000

SEAL

REVISIONS	
DATE	REMARKS

ISSUED FOR PERMIT
4-3-17

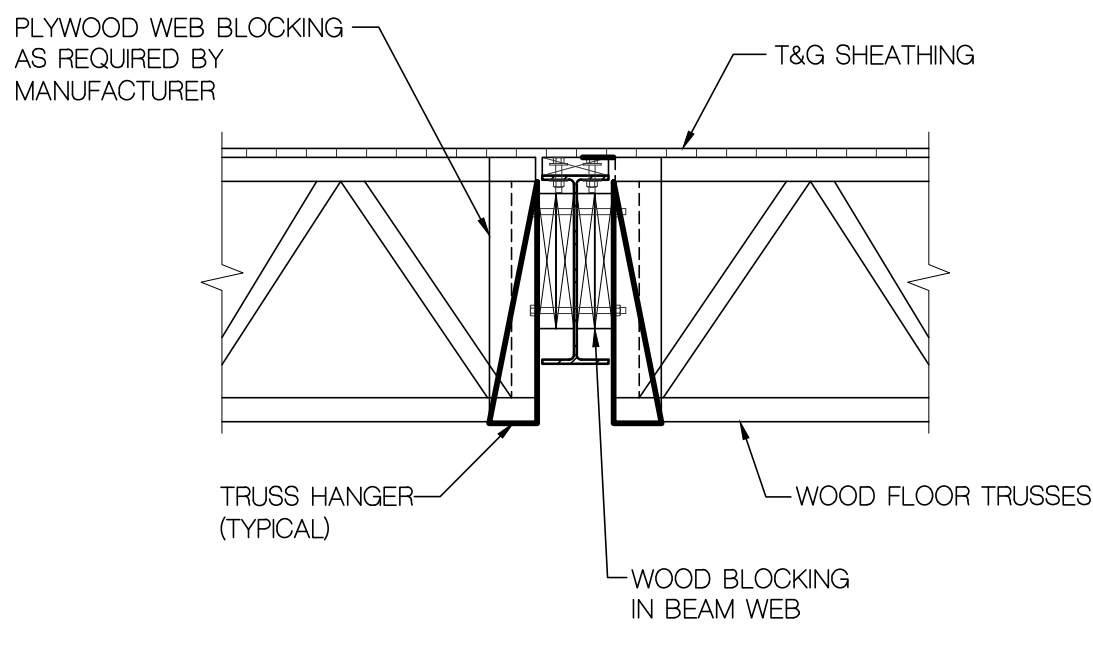
THIS DRAWING IS THE PROPERTY OF
S.E. Wagner, Architect
1304 SAVANNAH RD
LEWES, DE 19958
p.302.644.8884
f.302.644.8885
design@selmwagner.com
sewain@aol.com
© 2015 S.E. WAGNER, ARCHITECT

CHURCH ROAD ANIMAL HOSPITAL

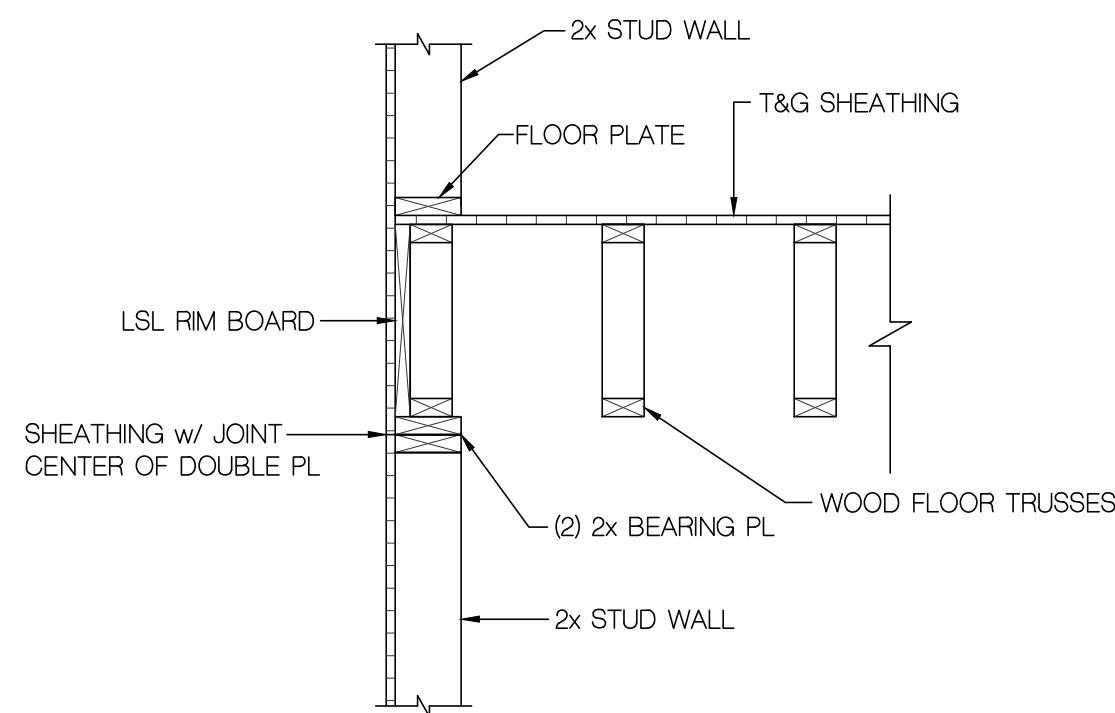
VIRGINIA
WARRENTON
FOUNDATION SECTIONS & TYPICAL DETAILS

DATE 4-3-17	SHEET NO. S5
FILE -	

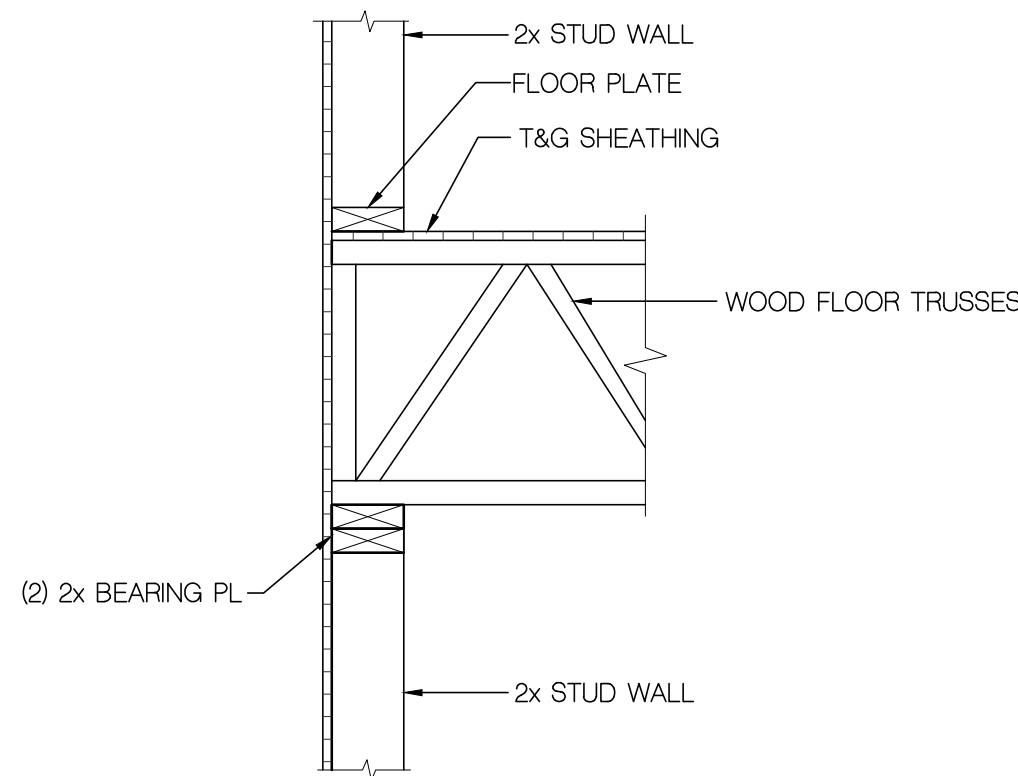
© 2015 DESIGN DELAMARVA / S.E. WAGNER, ARCHITECT. EXPLICITLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER. NONE ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF DESIGN DELAMARVA / S.E. WAGNER, ARCHITECT.



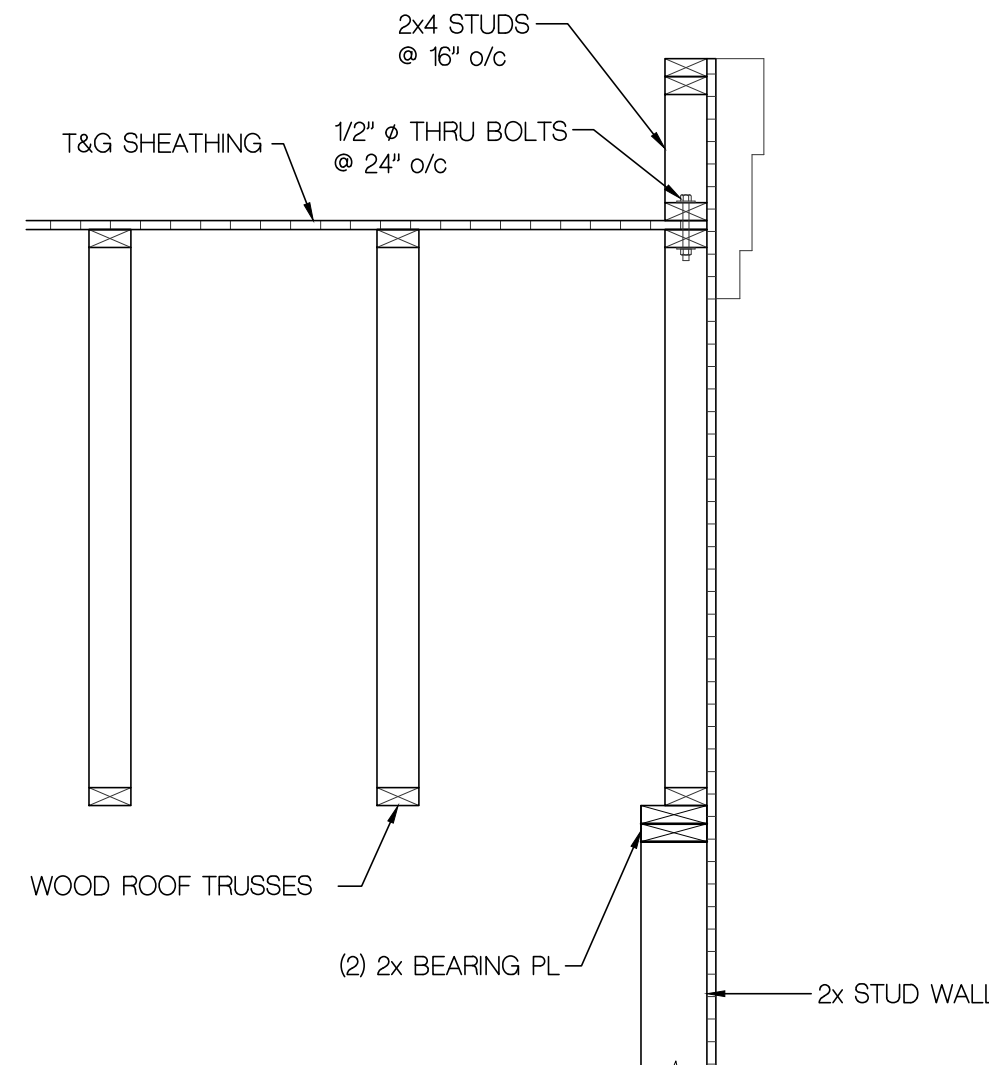
1 SECTION
SCALE : 3/4" = 1'-0"



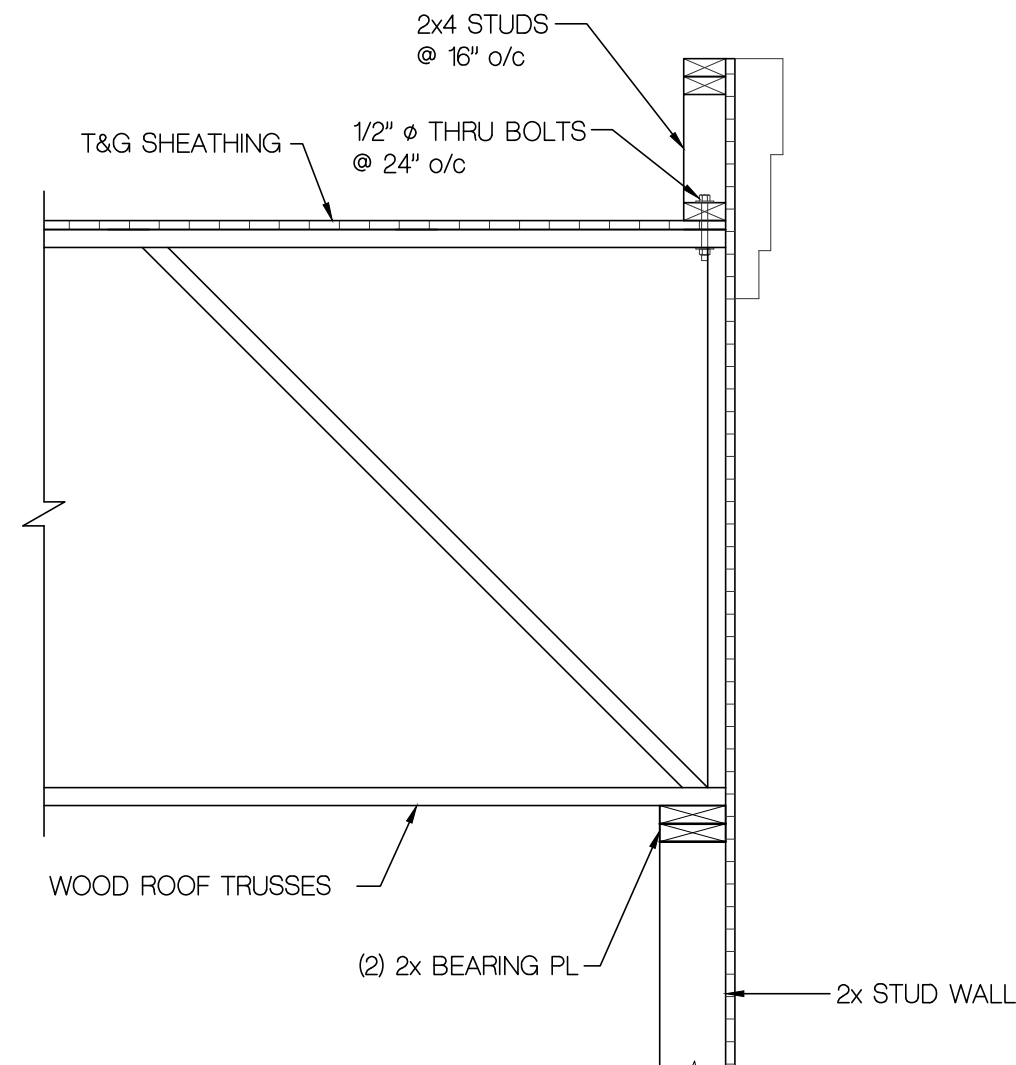
2 SECTION
SCALE : 3/4" = 1'-0"



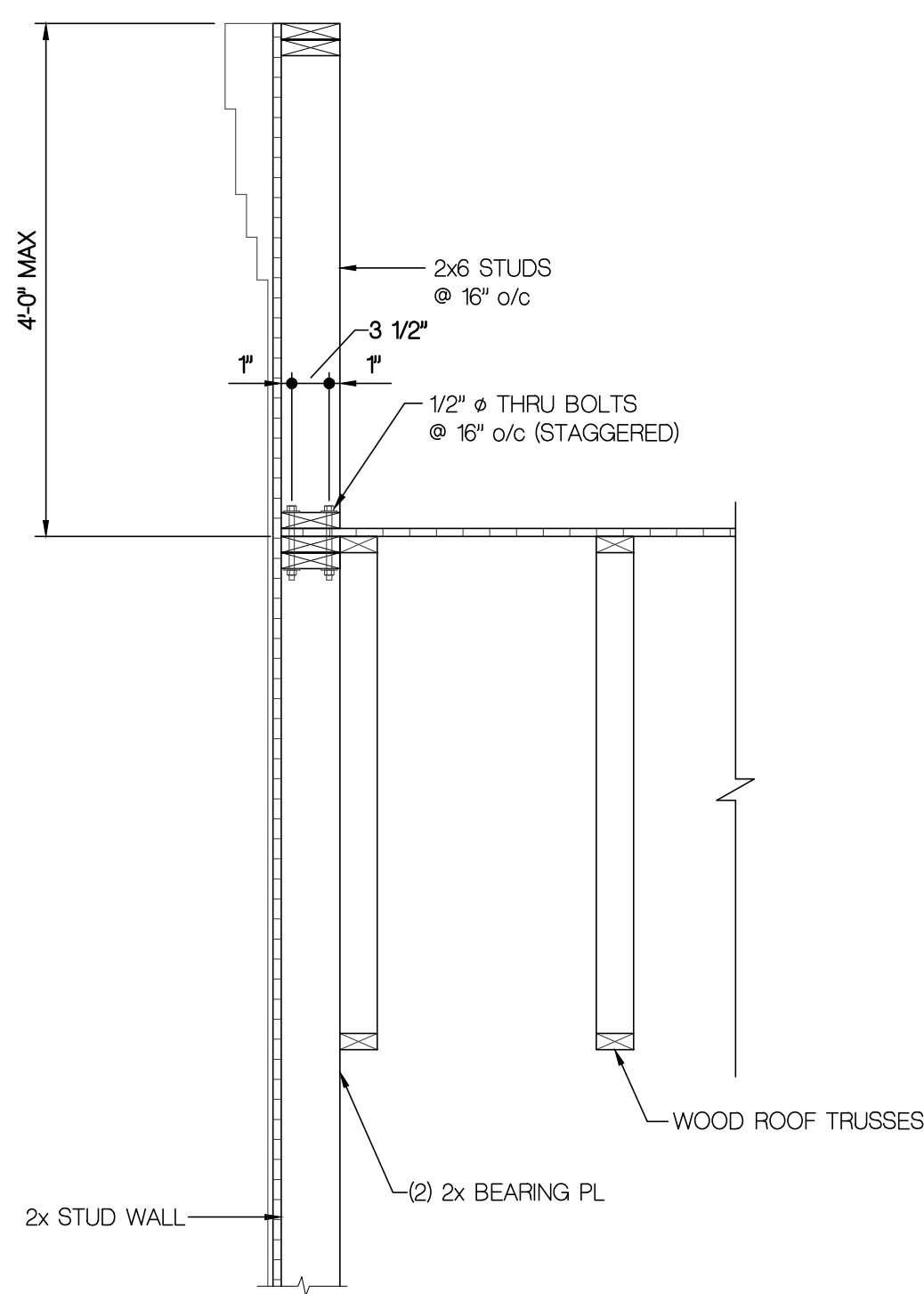
3 SECTION
SCALE : 3/4" = 1'-0"



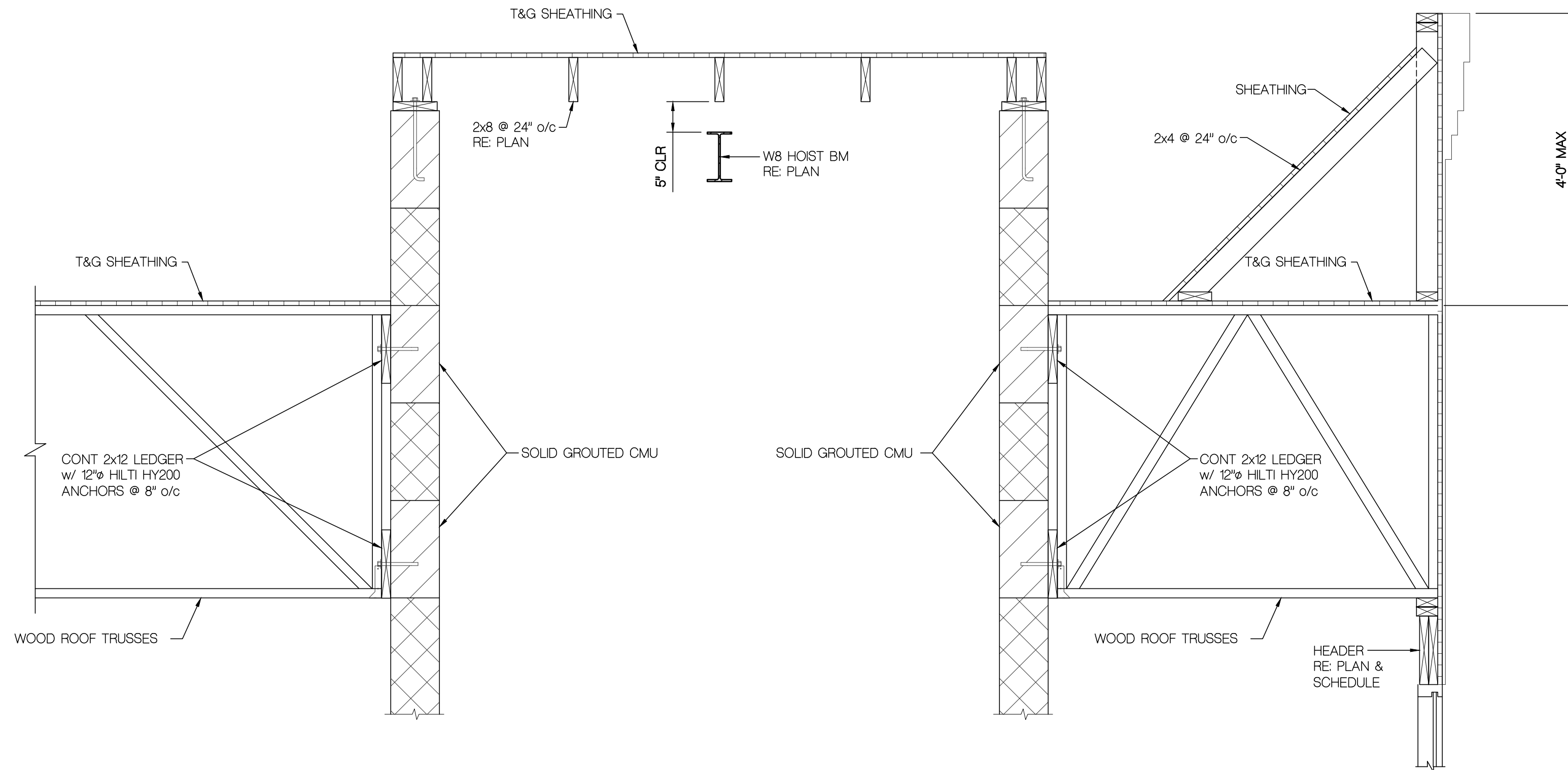
4 SECTION
SCALE : 3/4" = 1'-0"



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



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



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



SEAL

REVISIONS	
DATE	REMARKS

ISSUED FOR
PERMIT
4-3-17

THIS DRAWING IS THE PROPERTY OF
S.E. Wagner, Architect
1304 SAVANNAH RD
LEWES, DE 19958
p.302.644.8884
f.302.644.8885
design@sewagner.com
sewagner@aol.com
© 2015 S.E. WAGNER, ARCHITECT

CHURCH ROAD ANIMAL HOSPITAL

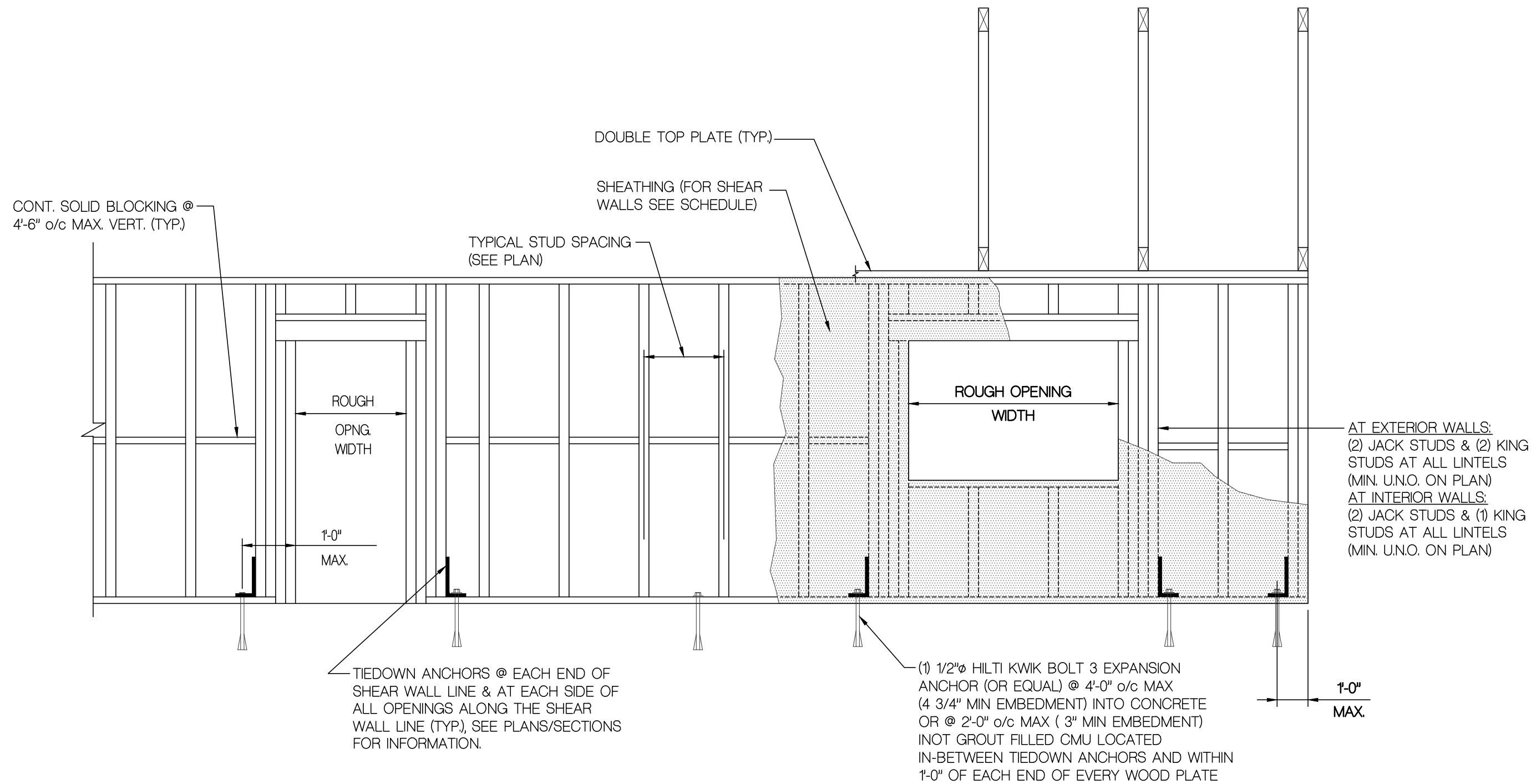
VIRGINIA

WARRENTON

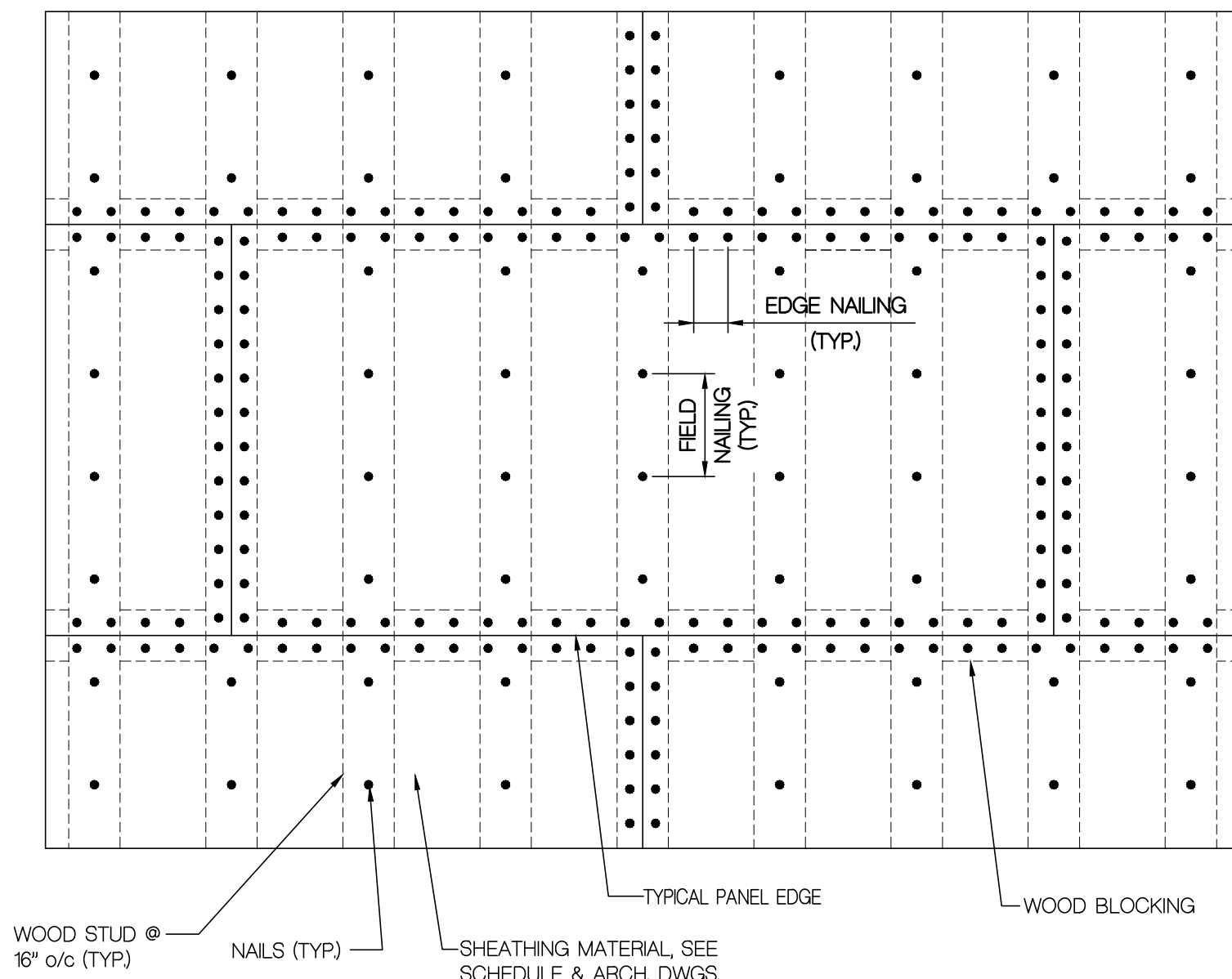
FLOOR & ROOF SECTIONS

DATE 4-3-17	SHEET NO. S6
FILE -	

© 2015 DESIGN DELAMINA / S.E. WAGNER, ARCHITECT. EXPLICITLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER. NONE ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF DESIGN DELAMINA / S.E. WAGNER, ARCHITECT.

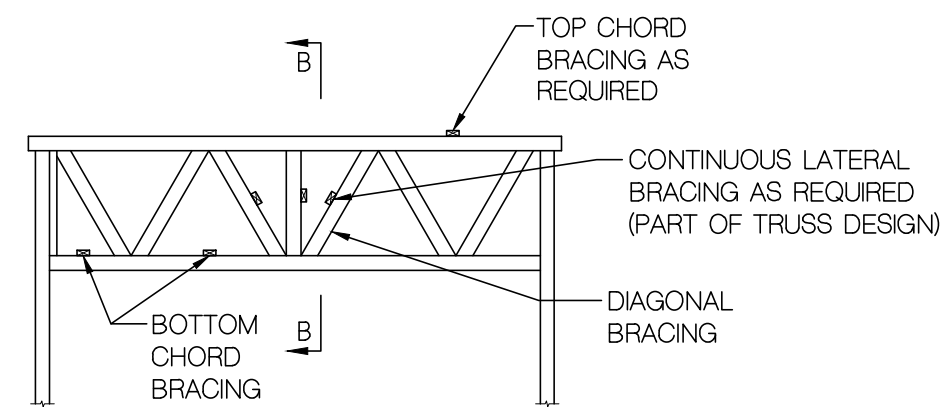


1 TYPICAL WOOD STUD BEARING AND/OR SHEAR WALL ELEVATION
SCALE : 3/4" = 1'-0"
FOR SHEAR WALL NAILING REQUIREMENTS, SEE SCHEDULE

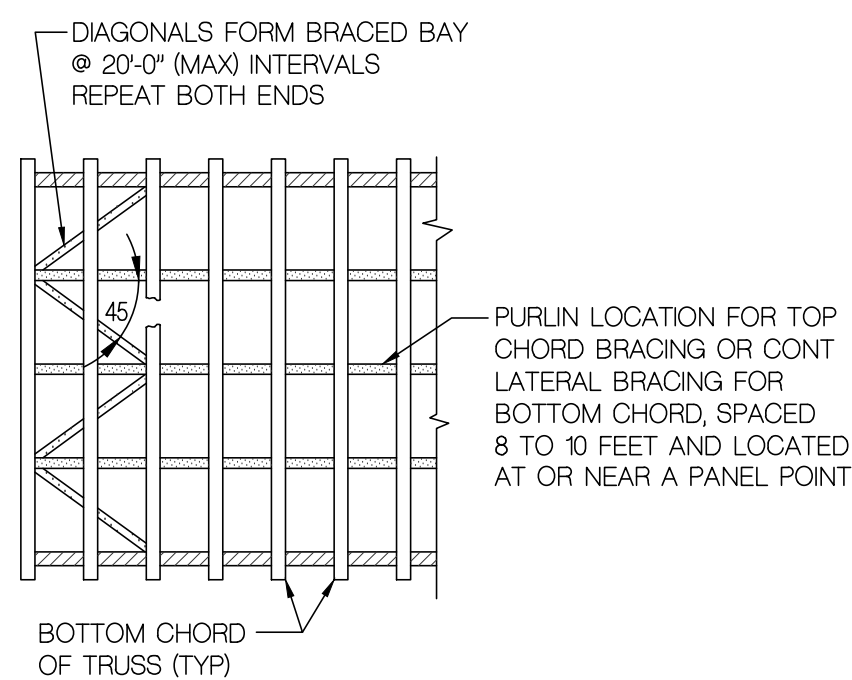


2 TYPICAL SHEAR WALL PANEL ELEVATION
SCALE : 1/2" = 1'-0"

WOOD SHEAR WALL SCHEDULE FOR STUDS AT 16" SPACING							
SW MARK	SHEATHING MATERIAL (ONE SIDE ONLY)	BLOCKED/ UNBLOCKED	EDGE NAILING (INCLUDING EDGES OF OPENINGS)	FIELD NAILING	SIMPSON TIEDOWN ANCHOR	MAXIMUM FORCE (PLF)	ALLOWABLE FORCE (PLF)
SW1	15/32" STRUCTURAL 1 SHEATHING	BLOCKED	6d @ 6"	10d @ 12"	HDU8-SD825	210	870
SW2	15/32" STRUCTURAL 1 SHEATHING	BLOCKED	6d @ 3"	10d @ 12"	HDU8-SD825	535	640



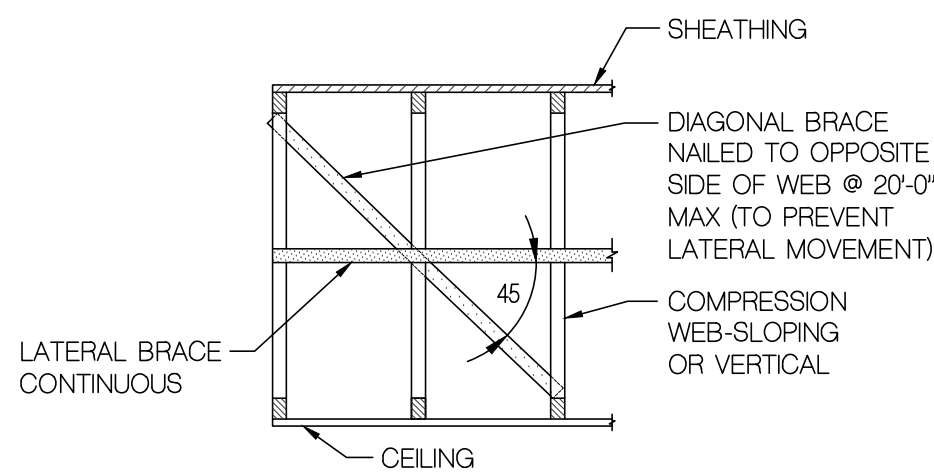
3C TYPICAL TRUSS ELEVATION
SCALE : 3/4" = 1'-0"



3 TOP/BOTTOM CHORD BRACING
SCALE : 3/4" = 1'-0"

GENERAL NOTES:

- WOOD TRUSSES SHALL BE BRACED AND ERECTED IN ACCORDANCE WITH THE "TRUSS PLATE INSTITUTE" STANDARDS. SEE STRUCTURAL NOTES.
- BRACING IN THE PLANE OF WEB MEMBERS:
 - THE TRUSS FABRICATOR SHALL PROVIDE AND LOCATE CONTINUOUS LATERAL BRACING FOR EACH TRUSS WEB MEMBER AS REQUIRED.
 - LATERAL BRACING SHALL BE RESTRAINED BY DIAGONAL BRACING (MIN 2" THICK NOMINAL LUMBER). THIS BRACING SHALL BE CONTINUOUS.
 - A MINIMUM OF TWO ROWS OF DIAGONAL BRACING IS REQUIRED, ONE AT EACH VERTICAL WEB MEMBER CLOSEST TO BEARING LOCATIONS.
- THE BOTTOM CHORDS SHALL BE BRACED BY CONTINUOUS LATERAL BRACING SPACED AT 8 TO 10 FEET NAILED TO TOP OF BOTTOM CHORD. DIAGONALS PLACED AT 45 DEGREES TO THE LATERAL BRACES SHALL BE LOCATED AT EACH END, IF BUILDING EXCEEDS 60 FEET IN LENGTH, DIAGONAL BRACING SHOULD BE REPEATED AT 20 FOOT INTERVALS.
- TOP CHORD BRACING:
 - IF PLYWOOD DECKING IS APPLIED DIRECTLY TO THE TOP CHORD, PROPERLY LAPPED AND NAILED TO DEVELOP DIAPHRAGM ACTION, BRACING IS NOT REQUIRED.
 - IF PURLINS ARE USED, DIAGONAL TOP CHORD BRACING IS REQUIRED AT EACH END, IF BUILDING EXCEEDS 60 FEET IN LENGTH, DIAGONAL BRACING SHOULD BE REPEATED AT 20 FOOT INTERVALS.
- WOOD ROOF TRUSSES ARE TO BE DESIGNED FOR THE WOOD FABRICATOR BY A PROFESSIONAL ENGINEER AND SEALED CALCULATIONS AND DRAWINGS ARE TO BE SUBMITTED FOR REVIEW.



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

SEAL

REVISIONS	
DATE	REMARKS

ISSUED FOR PERMIT
4-3-17

THIS DRAWING IS THE PROPERTY OF
S.E. Wagner, Architect
1304 SAVANNAH RD
LEWES, DE 19958
p.302.644.8884
f.302.644.8885
design@sewagner.com
sewain@aol.com
© 2015 S.E. WAGNER, ARCHITECT

CHURCH ROAD ANIMAL HOSPITAL

VIRGINIA

WARRENTON

TYPICAL WOOD DETAILS

DATE
4-3-17

FILE
-

SHEET NO.

S7