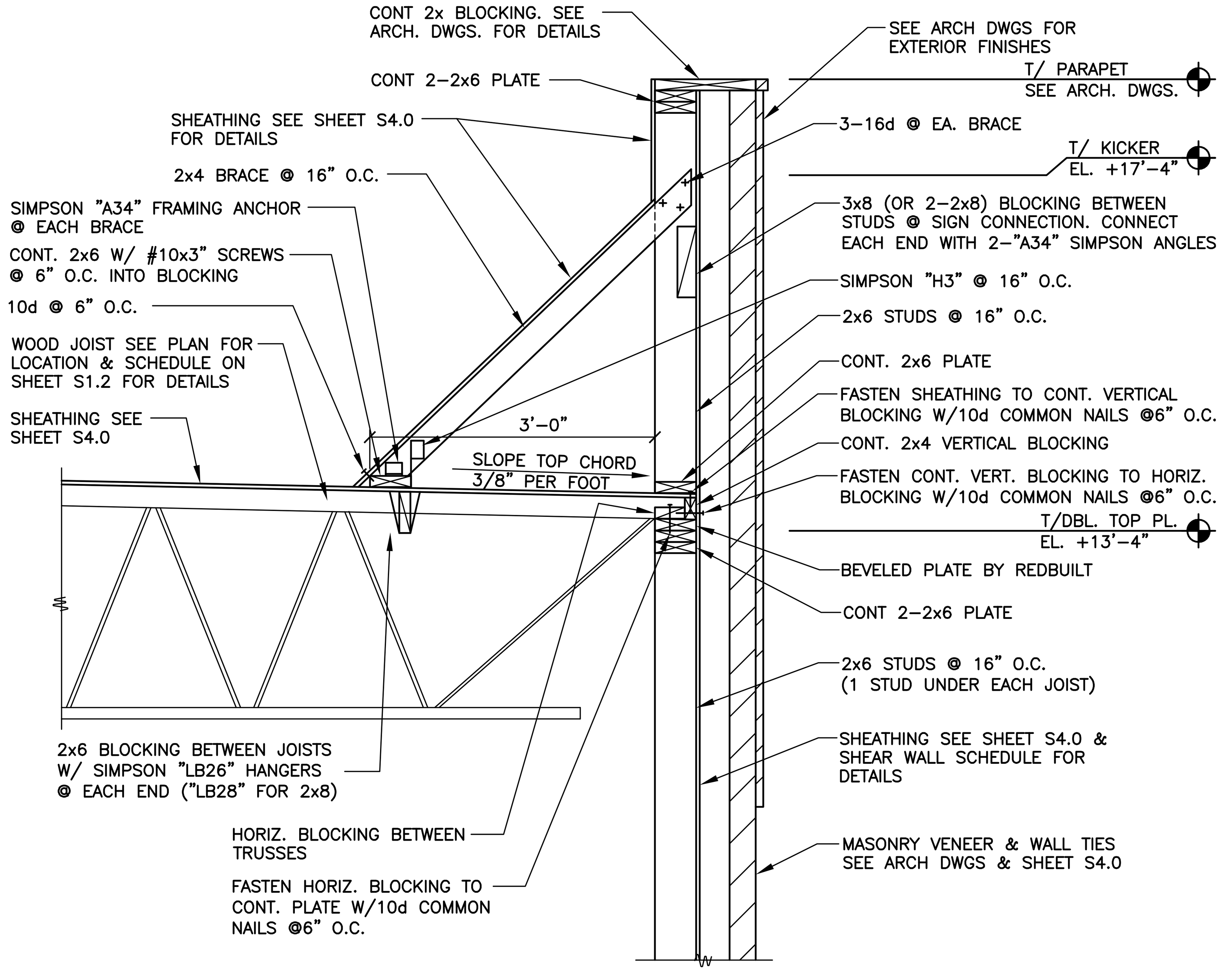
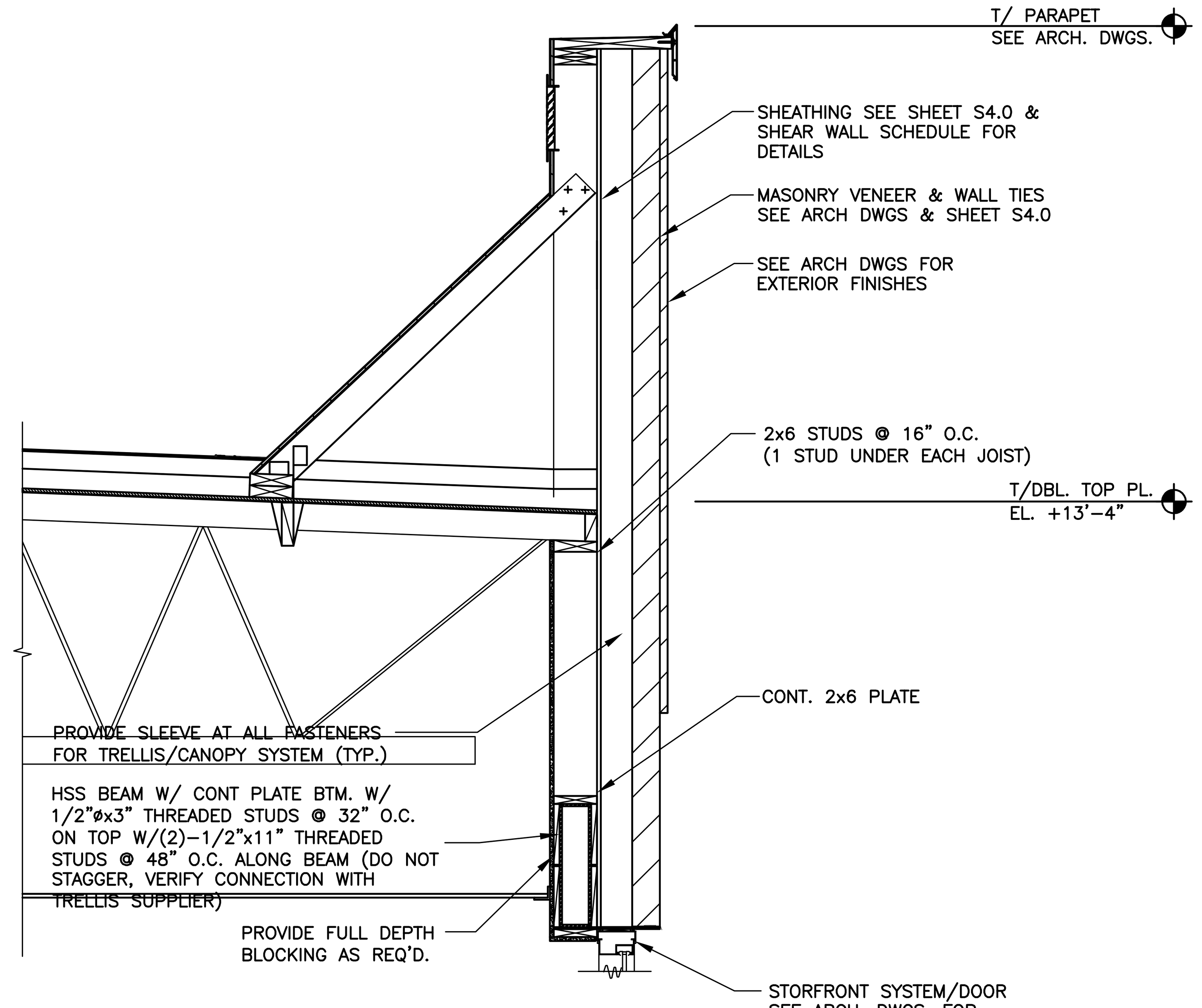


1/S3.0 SECTION
3/4" = 1'-0"

SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION



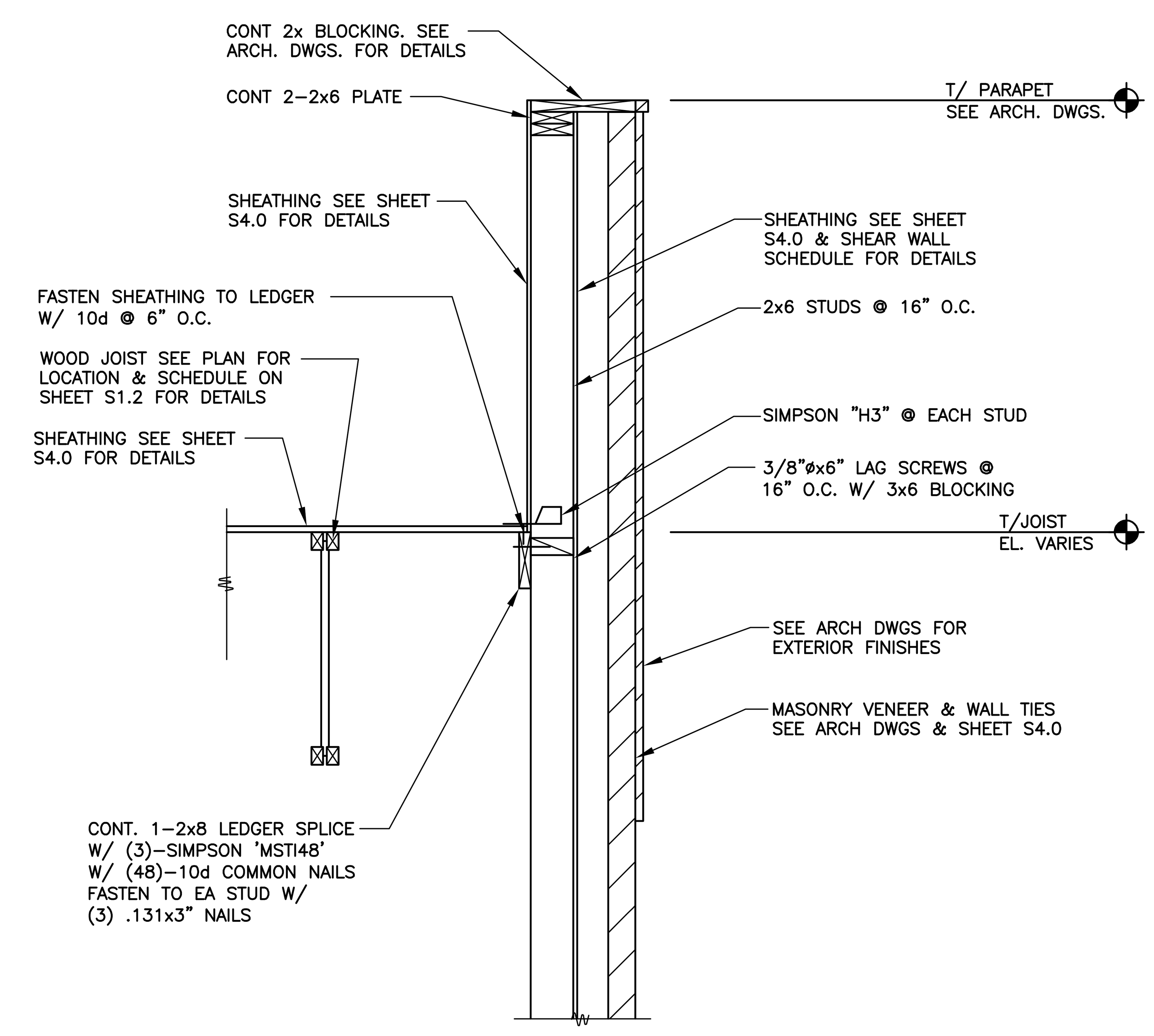
2/S3.0 SECTION
3/4" = 1'-0"

PAUL W. VOIGT 17044 — LICENSED PROFESSIONAL ENGINEER — IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

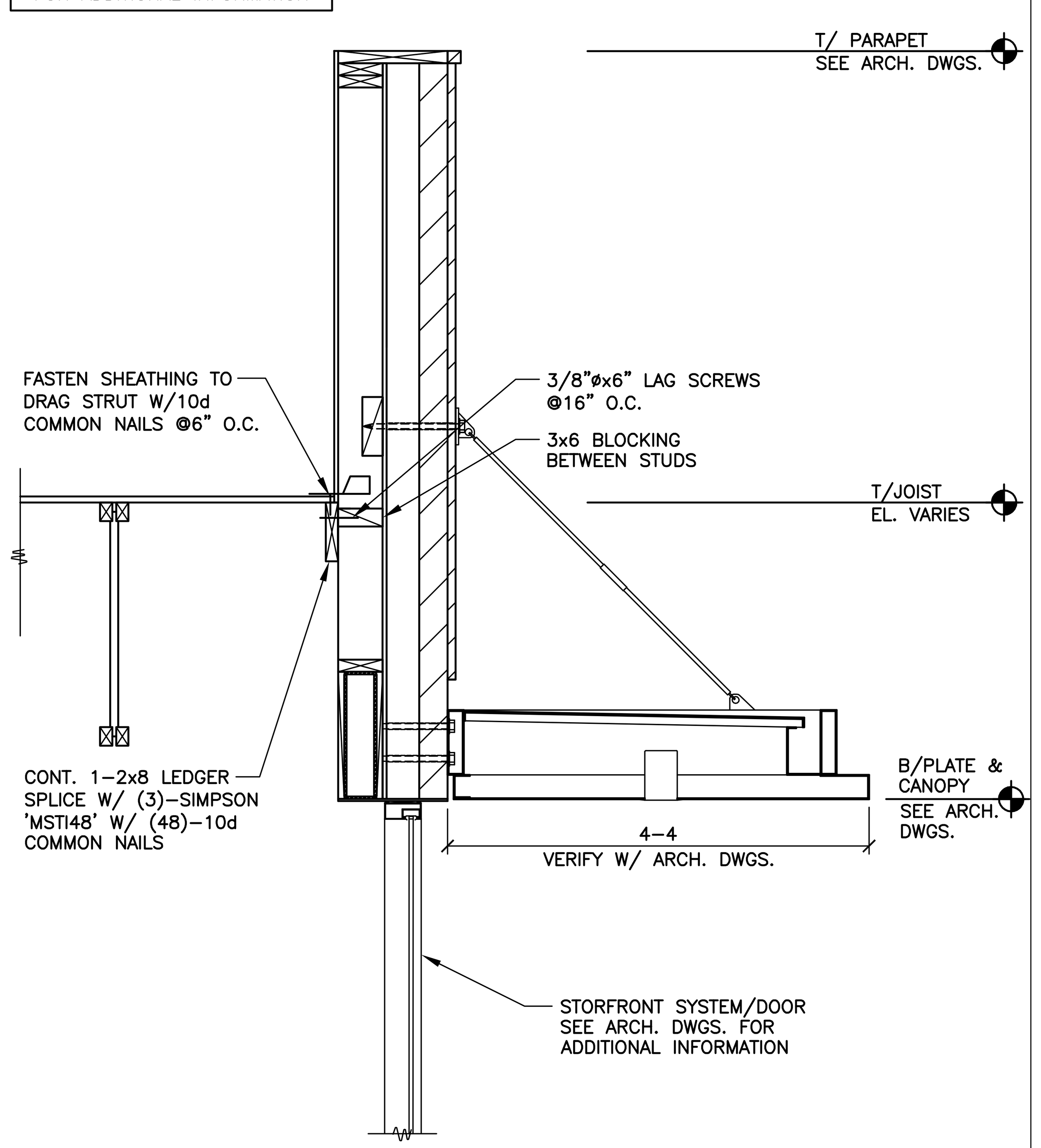
Paul W. Voigt (signature) 2-22-19
Paul w. Voigt - P.E. Date

My license renewal date is December 31, 2019.



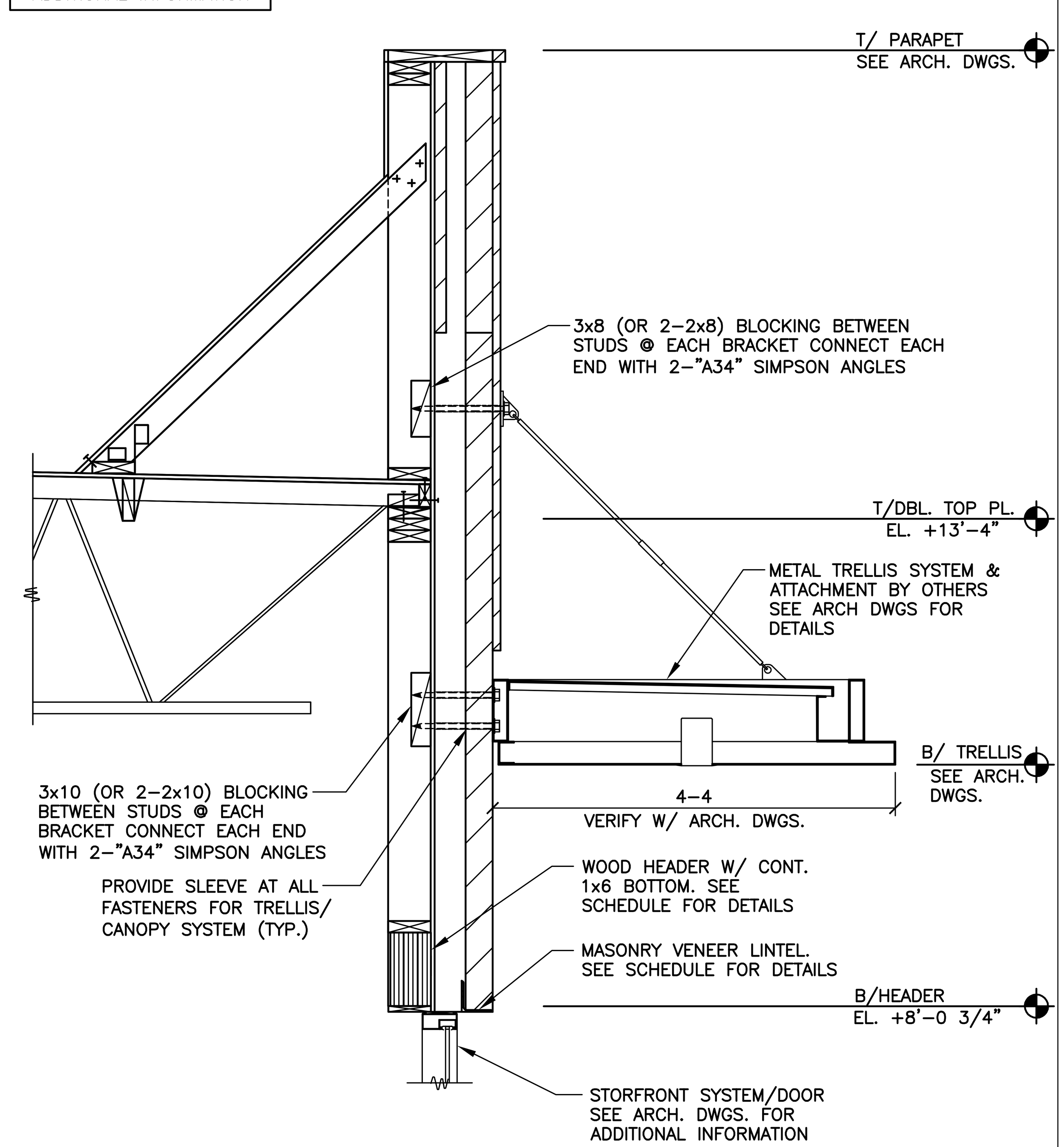
3/S3.0 SECTION
3/4" = 1'-0"

SEE SECTION 2/S3.0 & 3/S3.0 FOR ADDITIONAL INFORMATION



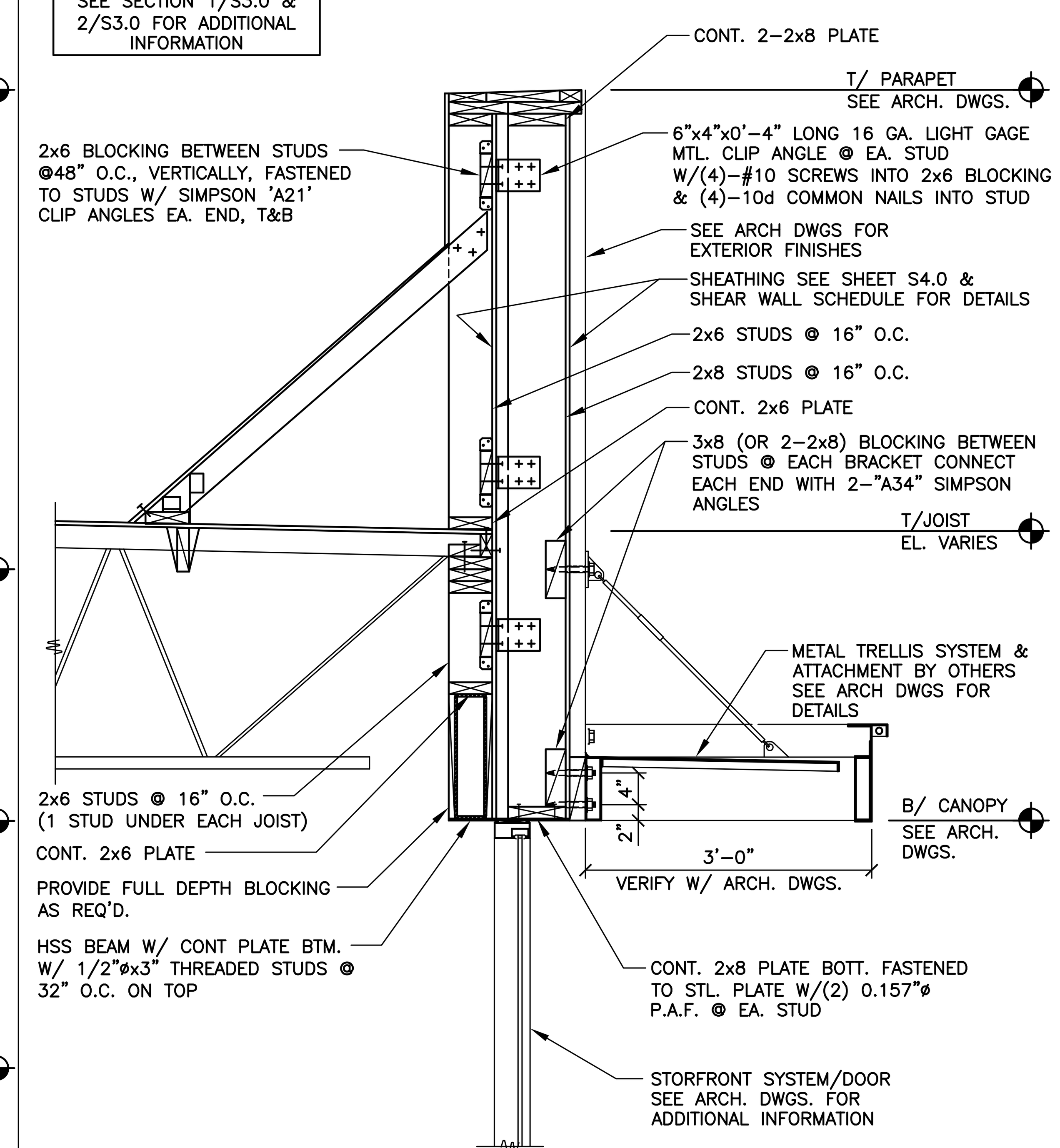
4/S3.0 SECTION
3/4" = 1'-0"

SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION



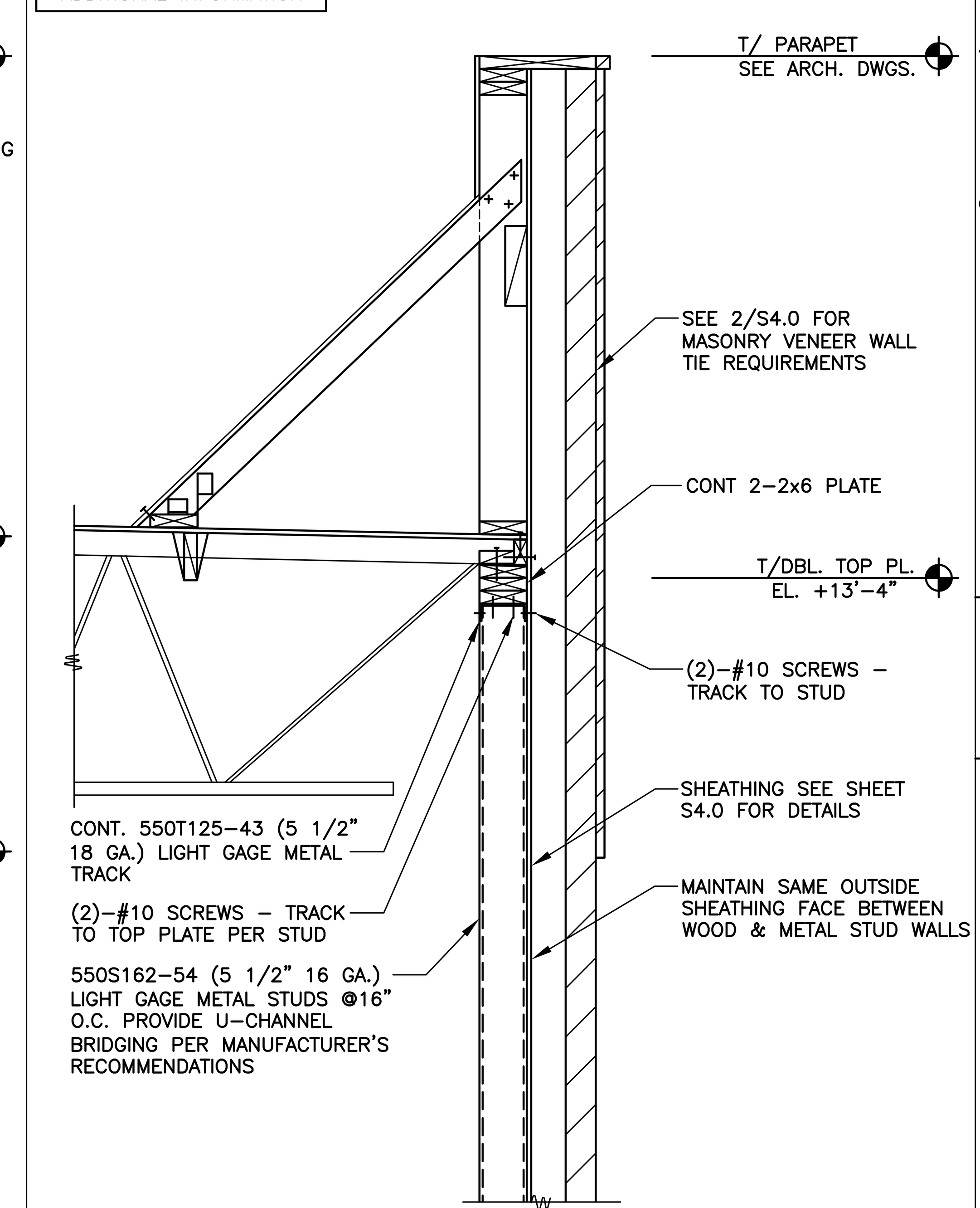
5/S3.0 SECTION
3/4" = 1'-0"

SEE SECTION 1/S3.0 & 2/S3.0 FOR ADDITIONAL INFORMATION



6/S3.0 SECTION
3/4" = 1'-0"

SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION



7/S3.0 SECTION
3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY
	10/15/18	USRD REVIEW	
	2/22/19	PERMIT	
-	-	-	-

PREPARED BY:
VOIGT & ASSOCIATES, INC.
STRUCTURAL ENGINEERING SERVICES
4635 NICOLS RD.
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PHONE (651) 686-7727
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PREPARED FOR:
McDonald's USA, LLC

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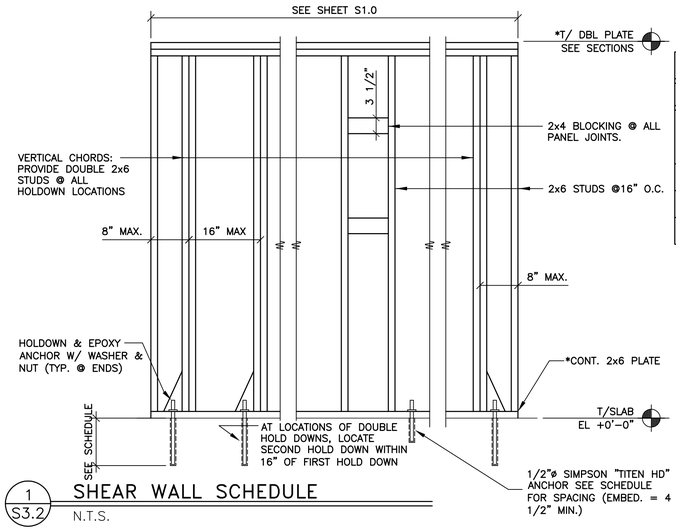
DRAWN BY: MLH
STD ISSUE DATE: 2018_09
REVIEWED BY: AWM
DATE ISSUED: 2/22/19
VA# M18-004

TITLE: 2018 STANDARD BUILDING
45114-(-F5)-PP-TE-WOOD/WOOD

DESCRIPTION:
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & Ci
WOOD ROOF TRUSS FRAMING
ACM ALPOLIC/BATTEN/METAL PANEL/BRICK EXTERIOR FINISH

SITE ID: 14-0069
SITE ADDRESS: 1227 SOUTH MARSHALL STREET BOONE, IA

SHEET NO. 014-0069.00.0
S3.0
FRAMING SECTIONS



1 S3.2 SHEAR WALL SCHEDULE
N.T.S.

SHEAR WALL SCHEDULE

WIND: 115 MPH (EXPOSURE C) SEISMIC: Sds = 6.4%, Sd1 = 6.7%

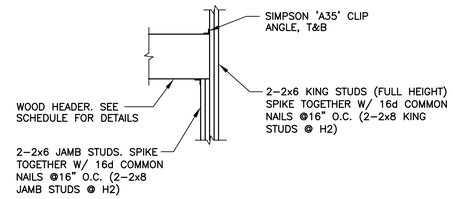
MARK	SHEATHING	SHEATHING NAIL SIZE	SHEATHING NAIL** SPACING @ PANEL EDGES	HOLDDOWN*** ANCHORS	ANCHOR BOLT SPACING	REMARKS
A	1-15/32"	8d	6"	1-HDU8-SDS2.5 7/8"ø EPOXY ANCH.	32	15" MIN. EMBED. ON HOLDDOWN ANCHORS.
B	1-15/32"	8d	4"	2-HDU8-SDS2.5 7/8"ø EPOXY ANCH.	24"	15" MIN. EMBED. ON HOLDDOWN ANCHORS.
C	1-15/32"	8d	6"	1-HDU8-SDS2.5 7/8"ø EPOXY ANCH.	32"	15" MIN. EMBED. ON HOLDDOWN ANCHORS.

NOTES:
1. SHEATHING PANELS MAY BE LAID UP HORIZONTALLY OR VERTICALLY. NO VERTICAL PANEL EDGES ON VERTICAL CHORDS (HOLDDOWN LOCATION).
2. WIND LOADS GOVERN OVER SEISMIC LOADS UNLESS AS NOTED IN THE REMARKS COLUMN.
3. NAIL ALL SHEATHING TO INTERMEDIATE SUPPORTS @ 12" O.C.
4. SCREW HOLDOWN ANCHORS TO VERTICAL MEMBER W/ 20-"SDS1/4"øx2 1/2" SCREWS EACH

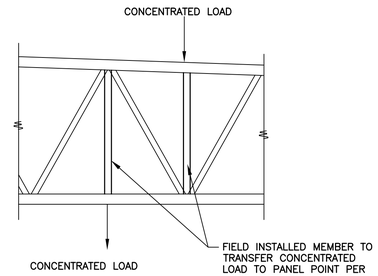
* IF SILL PLATE OR TOP PLATES ARE NOT CONTINUOUS, CONTACT THE ENGINEER OF RECORD FOR SOLUTION.

** NAIL SHEATHING TO ROOF DIAPHRAGM CHORD & TO EACH MEMBER/WALL VERTICAL CHORD W/ 10d COMMON NAILS @ 6" O.C., UNO.

*** AS MANUF. BY SIMPSON. USE SET HIGH STRENGTH EPOXY FOR THE INSTALLATION OF END THREADED ROD ANCHORS.



2 S3.2 HEADER SUPPORT DETAIL
N.T.S.



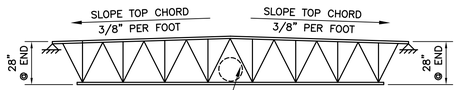
3 S3.2 JOIST DETAIL @ POINT LOADS
N.T.S.

1. FOR NATIONAL ACCOUNT PACKAGE & PRICING CONTACT REDBUILT @ 1-866-859-6757
2. JOIST MFGR. TO VERIFY SIZE AT HVAC ROOF TOP UNITS.

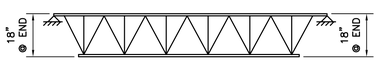
HEADER	HANGER
2x6	LUS26
2-2x6	LUS26-2
2x8	LUS28
2-2x8	LUS28-2
2x10	LUS210
2-2x10	LUS210-2

FOR OPENINGS < 1'-4" USE 1-2x6
FOR OPENINGS > 1'-4" AND < 4'-0" USE 2-2x8
FOR OPENINGS > 4'-0" AND < 6'-0" USE 2-2x10

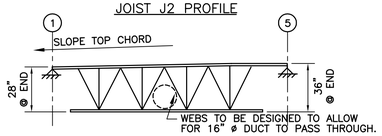
3. ALL JOISTS SHALL BE DESIGNED FOR THE FOLLOWING NET UPLIFT.
115 MPH 3 SEC GUST - EXPOSURE C, UNFACTORED
ASCE 7-10 LOADS
WIND UPLIFT:
INTERIOR = 26.4 PSF ULTIMATE
PERIMETER = 31.4 PSF (ULTIMATE WITHIN 5 FT. OF OUTSIDE WALLS)
DEAD LOAD RESISTANCE = 8 PSF



JOIST J1 PROFILE

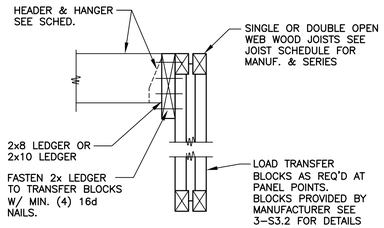


JOIST J2 PROFILE

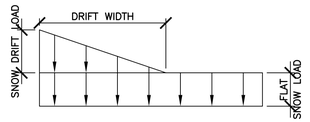


JOIST J3 PROFILE

4 S3.2 JOIST NOTES
N.T.S.



LOAD TRANSFER BLOCKS CONCENTRATED LOADS

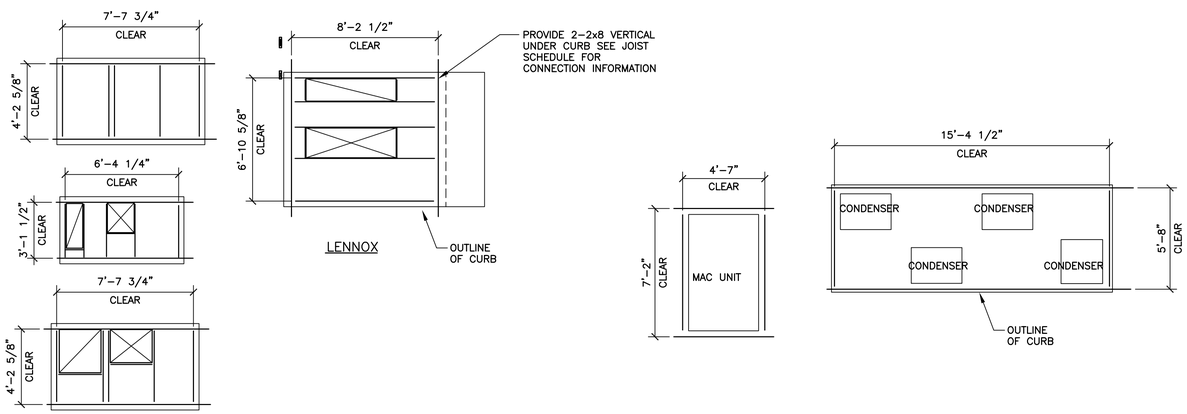


DRIFT	SNOW DRIFT LOAD (PSF)	WIDTH (FT)
SHORT DIRECTION	32	7.0
LONG DIRECTION	54	12.0

NOTES:
1. SNOW DRIFT LOADS BASED ON NOMINAL, UNFACTORED GROUND SNOW LOADS. SEE SHEET S4.0 FOR ADDITIONAL INFORMATION.
2. DRIFT LOADS SHALL ONLY BE APPLIED TO LOW ROOF.

5 S3.2 SNOW DRIFT DIAGRAM/SCHEDULE
N.T.S

6 S3.2 NOT USED
3/4" = 1'-0"



7 S3.2 ROOF TOP UNIT CLEARANCES
1/4" = 1'-0"

8 S3.2 NOT USED
N.T.S.

9 S3.2 NOT USED
N.T.S.

PAUL W. VOIGT 17044 LICENSED PROFESSIONAL ENGINEER IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Paul W. Voigt 2-22-19

Paul w. Voigt - P.E. Date

My license renewal date is December 31, 2019.

REV	DATE	DESCRIPTION	BY
		-	
		-	
		-	
10/15/18	USRD REVIEW		
2/22/19	PERMIT		

PREPARED BY:
VOIGT & ASSOCIATES, INC.
STRUCTURAL ENGINEERING SERVICES
4835 NICOLS RD.
EDINA, MINNESOTA 55122
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FAX (651)686-6644

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PREPARED FOR: McDonald's USA, LLC

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DRAWN BY	STD ISSUE DATE
MEH	2018_09
REVIEWED BY	DATE ISSUED
AWM	2/22/19

TITLE: 2018 STANDARD BUILDING 45114-(-F5)-PP-TE-WOOD/WOOD

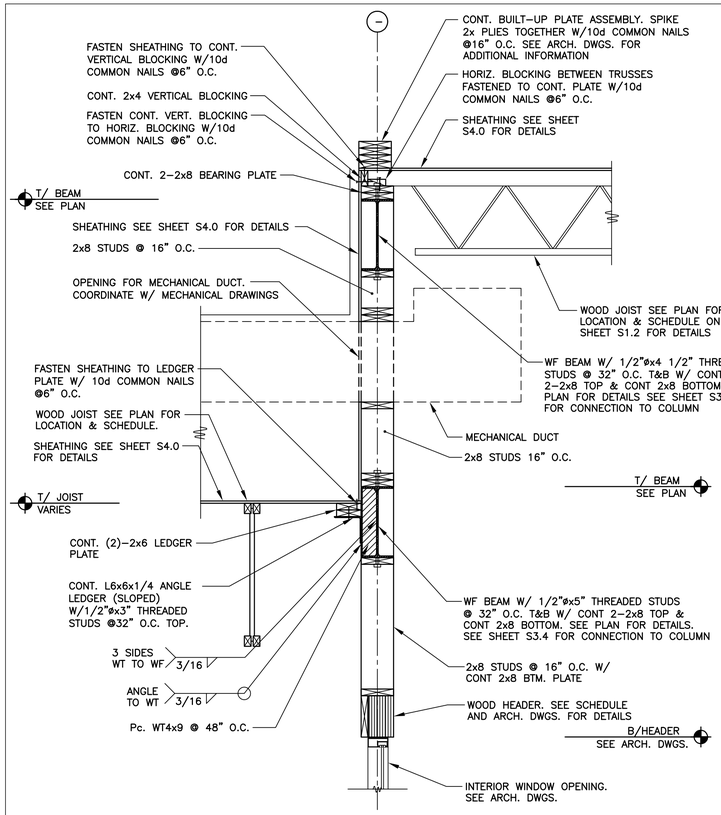
DESCRIPTION: WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI WOOD ROOF TRUSS FRAMING ACM ALPOLIC/BATTEN/METAL PANEL/BRICK EXTERIOR FINISH

SITE ADDRESS: 1227 SOUTH MARSHALL STREET BOONE, IA

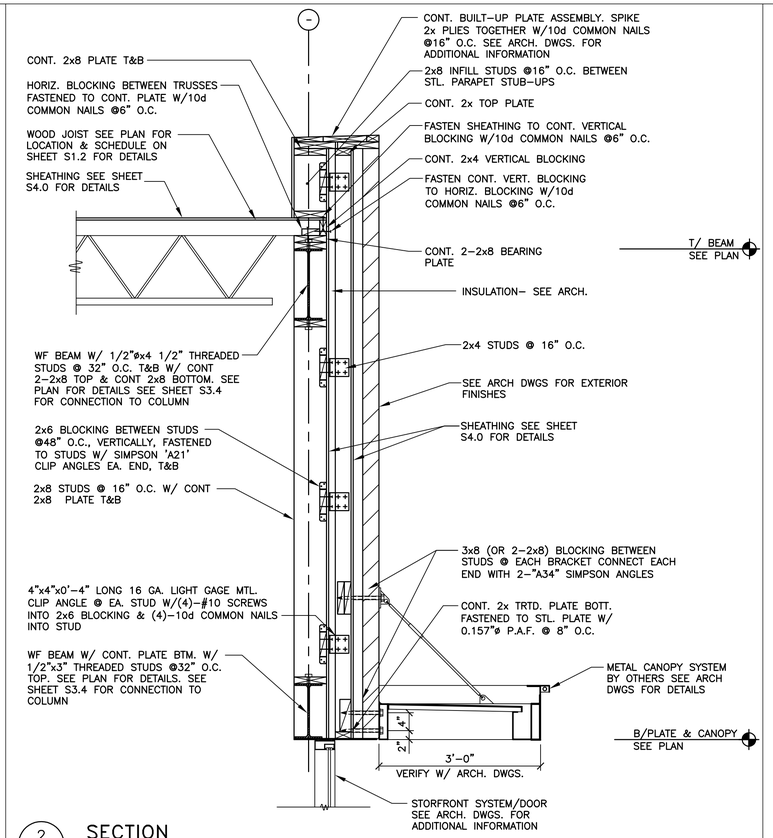
SITE ID: 14-0069

VA# M18-004

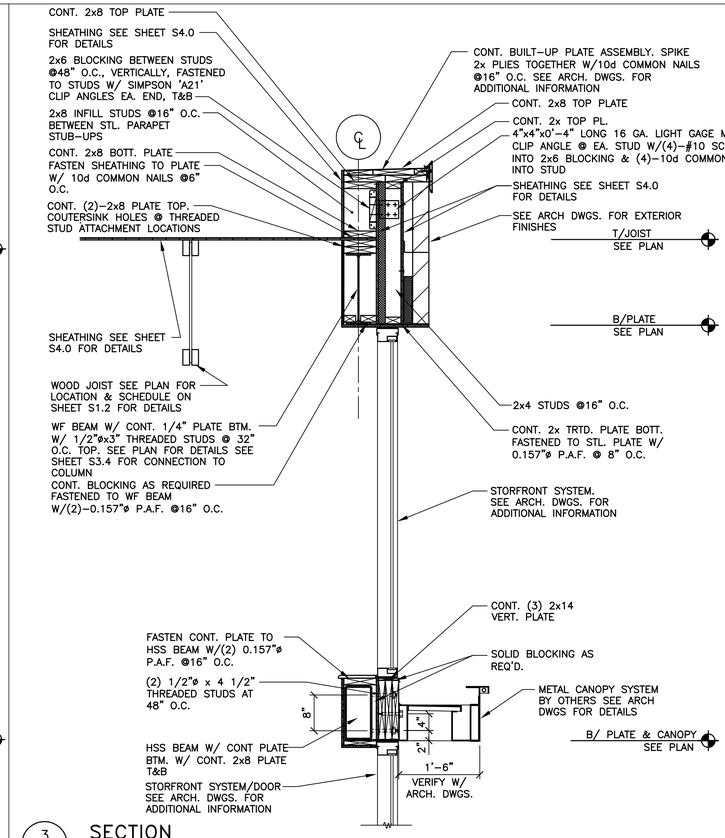
SHEET NO.: 014-0069.00.0 S3.2 DETAILS



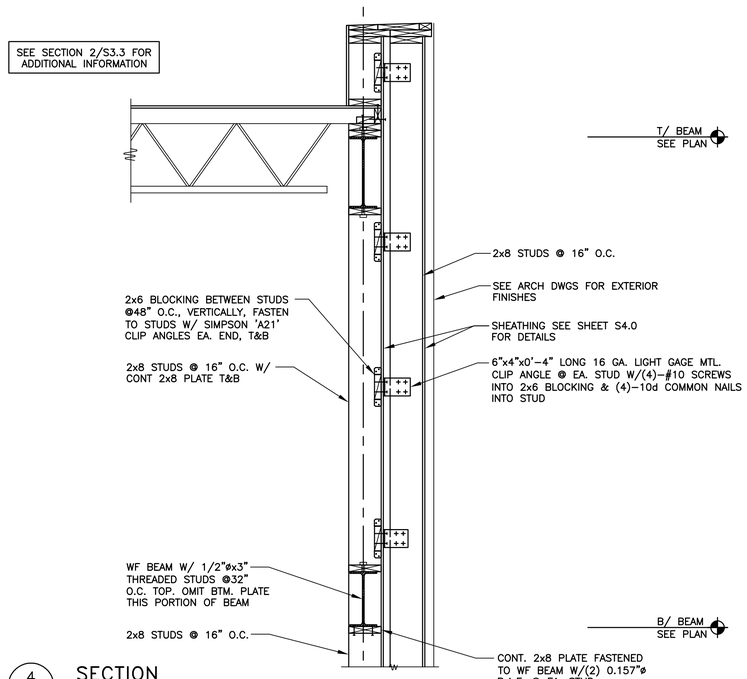
1 S3.3 SECTION
3/4" = 1'-0"



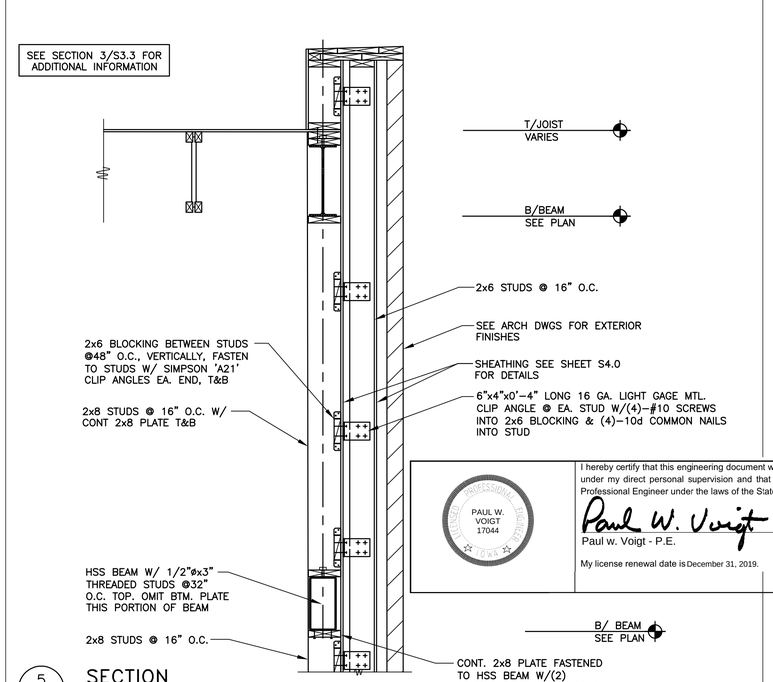
2 S3.3 SECTION
3/4" = 1'-0"



3 S3.3 SECTION
3/4" = 1'-0"



4 S3.3 SECTION
1/4" = 1'-0"



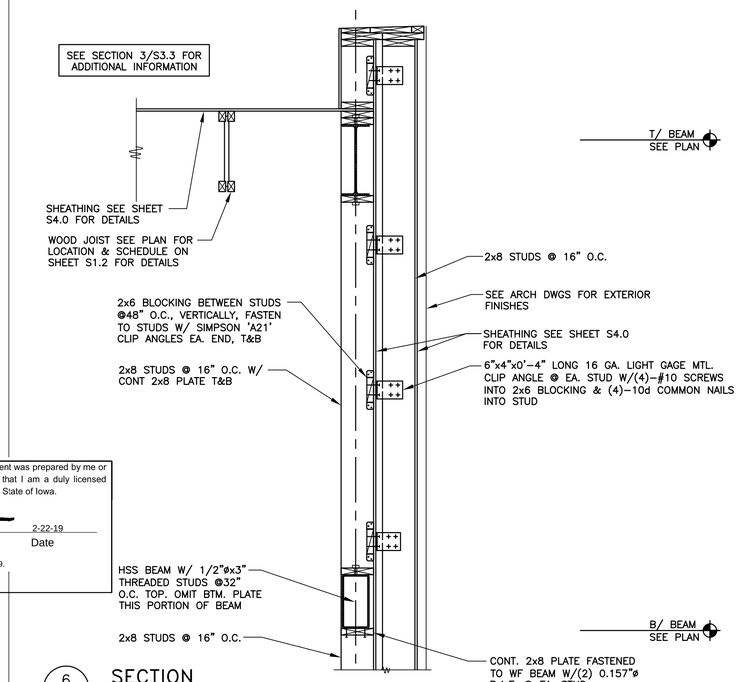
I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

PAUL W. VOIGT 17044

Paul w. Voigt - P.E. 2-22-19 Date

My license renewal date is December 31, 2019.

5 S3.3 SECTION
1/4" = 1'-0"



6 S3.3 SECTION
1/4" = 1'-0"

BY	DESCRIPTION
-	10/15/18 USRD REVIEW
-	2/22/19 PERMIT

REV	DATE
-	-
-	-

PREPARED BY:
VOIGT & ASSOCIATES, INC.
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FAX (651)686-0044

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PREPARED FOR:
McDonald's USA, LLC

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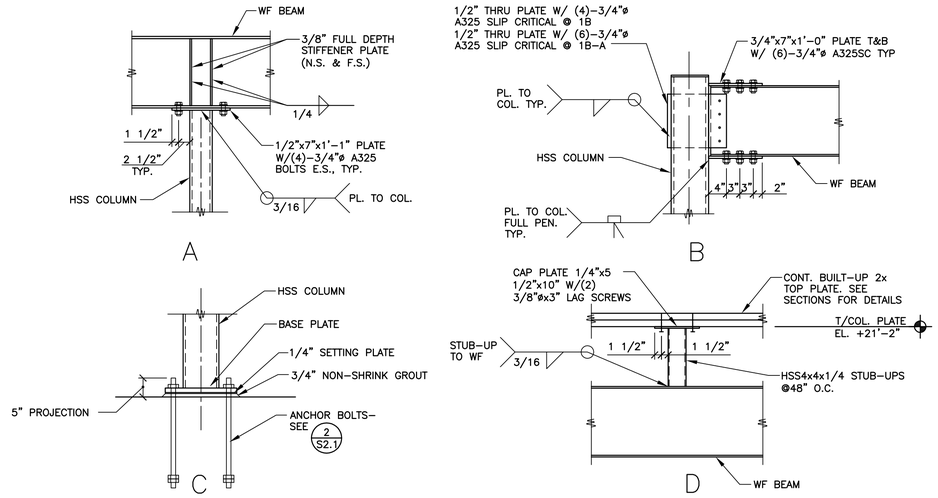
DRAWN BY	MEH
STD ISSUE DATE	2018_09
REVIEWED BY	AWM
DATE ISSUED	2/22/19
VA#	M18-004

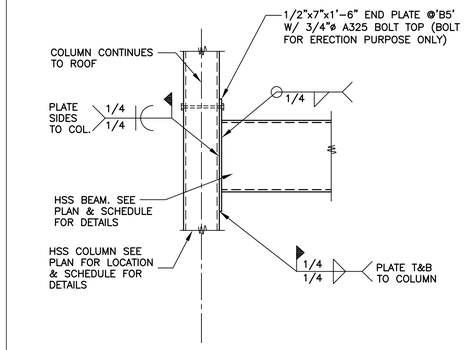
TITLE: 2018 STANDARD BUILDING 45114-(-F5)-PP-TE-WOOD/WOOD

DESCRIPTION	
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & Ci	
WOOD ROOF TRUSS FRAMING	
ACM ALPOLIC/BATTEN/METAL PANEL/BRICK EXTERIOR FINISH	
SITE ID	SITE ADDRESS
14-0069	1227 SOUTH MARSHALL STREET BOONE, IA

SHEET NO. 014-0069.00.0
S3.3
PLAYPLACE SECTIONS



1 S3.4 **MOMENT FRAME DETAILS**
3/4" = 1'-0"



3 S3.4 **HSS BEAM CONNECTION DETAIL**
3/4" = 1'-0"

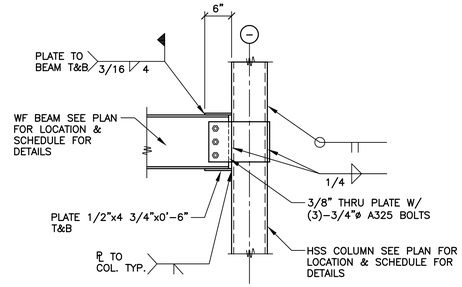
PAUL W. VOIGT 17044 LICENSED PROFESSIONAL ENGINEER STATE OF IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

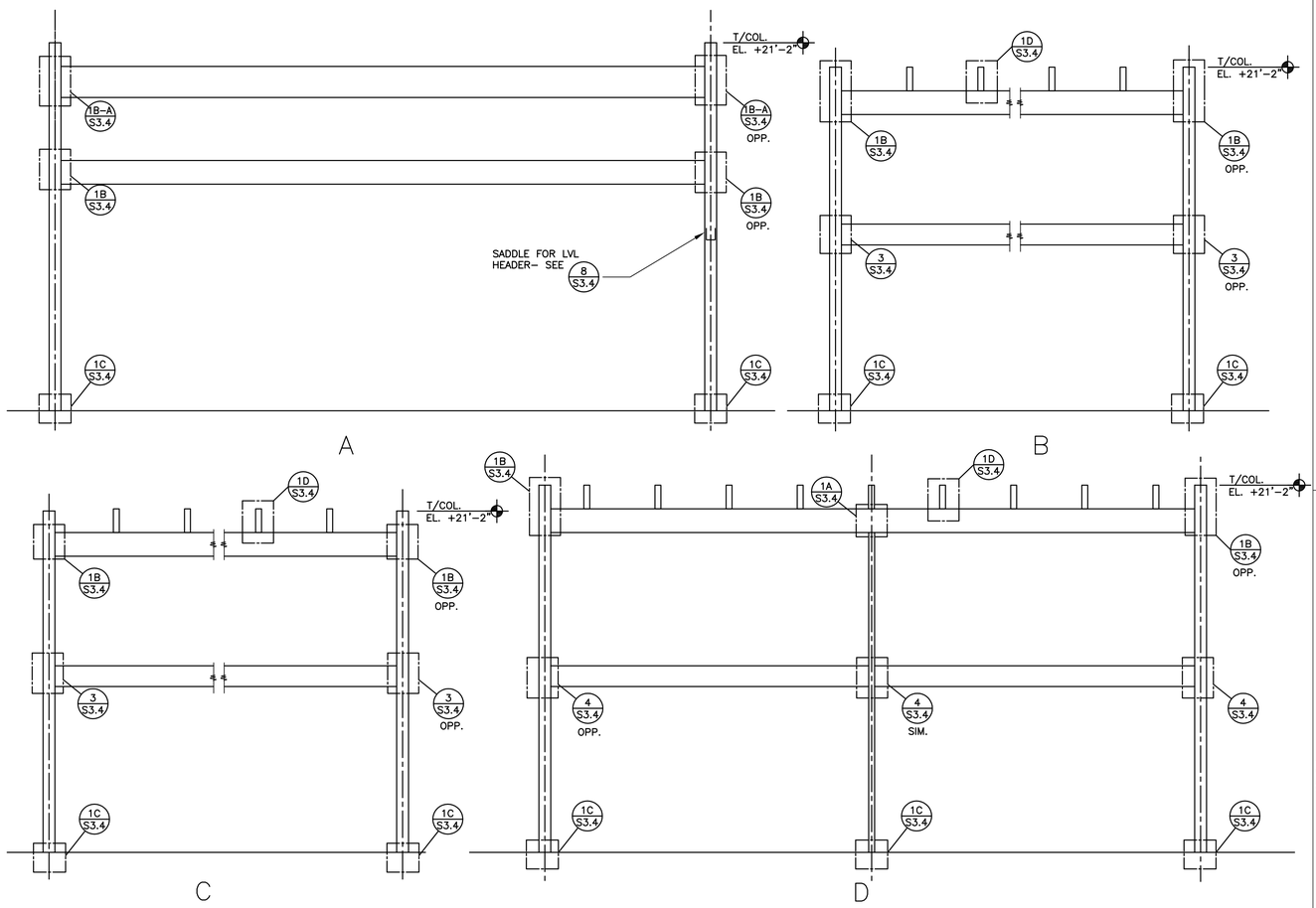
Paul W. Voigt 2-22-19

Paul w. Voigt - P.E. Date

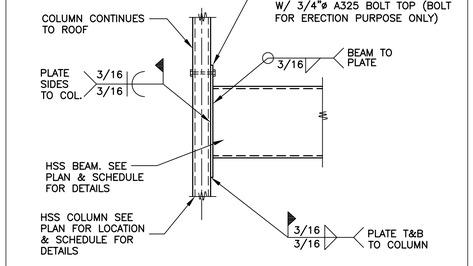
My license renewal date is December 31, 2019.



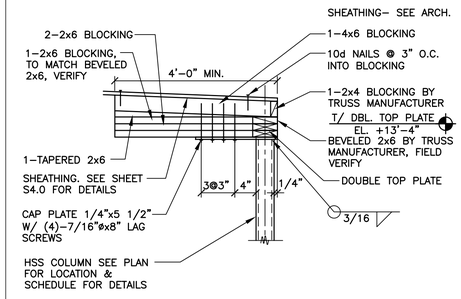
4 S3.4 **WF BEAM CONENCTION**
3/4" = 1'-0"



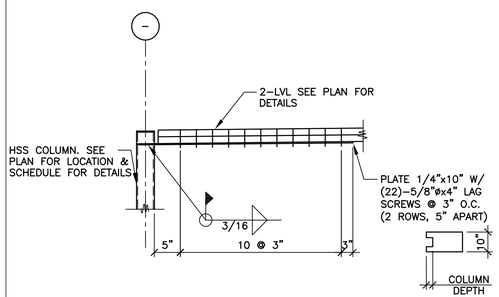
2 S3.4 **MOMENT FRAME ELEVATIONS**
1/4" = 1'-0"



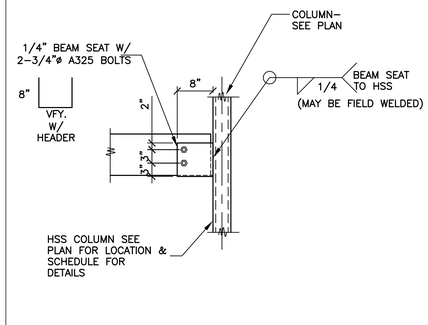
5 S3.4 **HSS BEAM CONNECTION DETAIL**
3/4" = 1'-0"



6 S3.4 **COLUMN BRACING DETAIL**
3/4" = 1'-0"



7 S3.4 **DRAG STRUT CONNECTION DETAIL**
3/4" = 1'-0"



8 S3.4 **DETAIL**
3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY
1	-		
1	-	USRD REVIEW	
	10/15/18		
	2/22/19	PERMIT	

PREPARED BY:
VOIGT & ASSOCIATES, INC.
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EDINA, MINNESOTA 55122
PHONE (651)686-7727
FAX (651)686-0444

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	MEH
STD ISSUE DATE	2018_09
REVIEWED BY	AWM
DATE ISSUED	2/22/19
VA#	M18-004

TITLE: 2018 STANDARD BUILDING
45114-(-F5)-PP-TE-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
WOOD ROOF TRUSS FRAMING
ACM ALPOLIC/BATTEN/METAL PANEL/BRICK EXTERIOR FINISH

SITE ID: 14-0069
SITE ADDRESS: 1227 SOUTH MARSHALL STREET BOONE, IA

SHEET NO. 014-0069.00.0
S3.4
STEEL DETAILS