

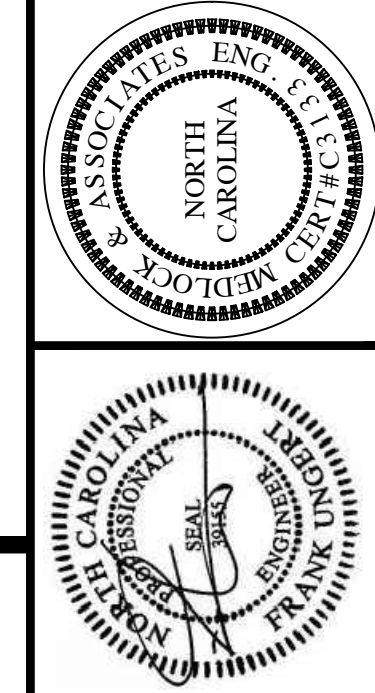
**BUNCOMBE COUNTY SCHOOLS
T.C. ROBERSON HIGH SCHOOL
POOL HOUSE RENOVATION
250 OVERLOOK ROAD
ASHEVILLE, NC 28803**

APPROX. ELEVATION - 2200'

**DRAWING INDEX
PAGE DESCRIPTION**

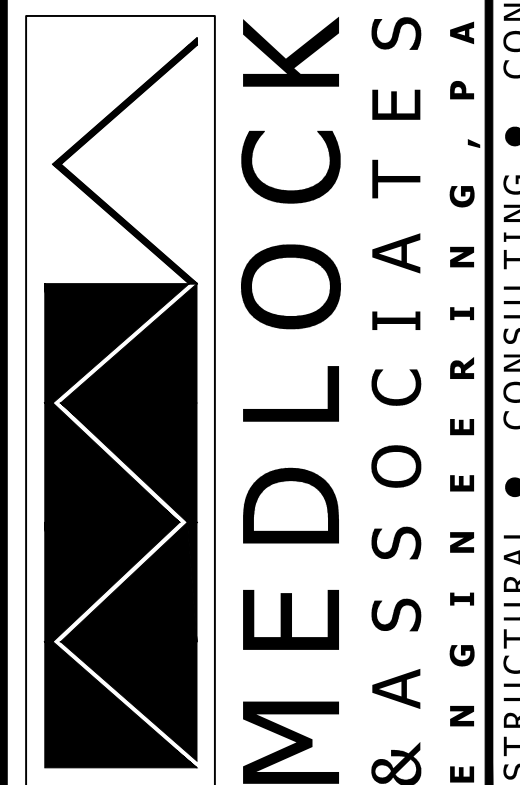
- S0.1 STRUCTURAL GENERAL NOTES,
DRAWING INDEX**
- S1.1 END-WALL ELEVATION, TRUSS
MODIFICATION ELEVATION & DETAILS**

03-19-2020



CONSTRUCTION SET

Reviewed: FUN AS NOTED 03-04-20
Scale: AS NOTED
Date: 03-04-20
Designed: FUN
Drawn: PLY
Checked: FUN
53 Asheland Avenue,
Suite 101
Asheville, NC 28801
Phone#: (828)232-4448
Fax#: (828) 232-5224
NC Cert. # C-3133



**BUNCOMBE COUNTY SCHOOLS
T.C. ROBERSON HIGH SCHOOL
POOL HOUSE RENOVATIONS**
NORTH CAROLINA
ASHEVILLE

Project No: 652319
S0.1
1 OF 2
Drawing Title: **END-WALL & TRUSS MODIFICATION ELEVS. & DETAILS**

STRUCTURAL NOTES

A. GENERAL

- THE PROVIDED DRAWINGS ARE LIMITED TO THE ITEMS SPECIFIED HEREIN. NO OPINION IS OFFERED, AND NONE SHOULD BE INFERRED REGARDING OTHER ASPECTS OF THIS STRUCTURE, OR THE STRUCTURES TAKEN AS A WHOLE. ANY ASSOCIATED REMEDIES EXPRESSED OR REFERENCED ARE EXCLUSIVE TO THE ITEMS SPECIFIED HEREIN. NO WARRANTY IS EXPRESSED OR IMPLIED.
- THE DRAWINGS CONTAINED HEREIN, IN-WHOLE OR IN-PART, REMAIN THE PROPERTY OF MEDLOCK & ASSOCIATES ENGINEERING, P.A. THE DRAWINGS MAY NOT BE USED, TRANSFERRED OR REPRODUCED FOR ANY PROJECT OTHER THAN THAT SPECIFIED WITHIN THE DRAWINGS WITHOUT WRITTEN CONSENT FROM MEDLOCK & ASSOCIATES ENGINEERING, P.A.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE, AS ADOPTED AND SUPPLEMENTED BY LOCAL REGULATIONS.
- PROTECTION AND SAFETY: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL COMPLY WITH THE PROTECTION AND SAFETY REQUIREMENTS OF THE STATE OF NORTH CAROLINA STATE BUILDING CODE, FEDERAL LAWS AND ALL LOCAL REGULATIONS. THE ENGINEER OR HIS EMPLOYEES ARE NOT RESPONSIBLE FOR SAFETY AND PROTECTION PROCEDURES ON THIS PROJECT.
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, LEVELS AND SITE CONDITIONS PRIOR TO START OF CONSTRUCTION. THEY SHALL REPORT ANY ERRORS, DISCREPANCIES OR INCONSISTENCIES TO THE ARCHITECT / ENGINEER (A/E) PRIOR TO COMMENCING WORK. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL LAYOUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND SHALL BE RESPONSIBLE FOR ALL MEASUREMENTS AND ELEVATIONS IN CONNECTION WITH THEIR WORK.
- IN THE EVENT ANY OMISSIONS OR ERRORS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF SUCH ERRORS OR OMISSIONS PRIOR TO PROCEEDING WITH WORK WHICH MAY BE IN QUESTION. IF THE GENERAL CONTRACTOR OR ANY SUBCONTRACTORS FAIL TO GIVE SUCH NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.
- NO CHANGES TO THE INFORMATION SHOWN ON THE DRAWINGS OR SUBSTITUTIONS OF MATERIALS SHALL BE MADE WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- DESIGN INFORMATION SHOWN ON THE DRAWINGS PROVIDE OVERALL DIMENSIONAL PARAMETERS AND DESCRIBE ELEMENTS TO BE CONSTRUCTED AND ARE IN-PART DIAGRAMMATIC. THE DRAWINGS ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.
- PRE-ENGINEERED WOOD MEMBERS SUCH AS TRUSSES OR SIMILAR BUILDING ELEMENTS SHALL BE DESIGNED BY THE MANUFACTURER UNLESS OTHERWISE NOTED ON THE PLANS. ALL LOADING AND DEFLECTION CRITERIA SHALL BE COORDINATED WITH THE OWNER OR ARCHITECT DIRECTLY FOR APPROVAL.
- ALL INFORMATION REGARDING PRE-ENGINEERED BUILDING COMPONENTS (EG: MANUF. TRUSS LAYOUT AND LOADING) SHALL BE PROVIDED TO ENGINEER OF RECORD FOR COORDINATION AND LOAD VERIFICATION PRIOR TO CONSTRUCTION.
- NO SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECTURAL / STRUCTURAL ENGINEER REVIEW UNTIL AFTER THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, DIMENSIONING AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR AND STAMPED WITH THE CONTRACTOR'S APPROVAL SEAL. THE STRUCTURAL ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS OR OMISSIONS AS A RESULT OF CHECKING AND REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS SHALL BE RECTIFIED BY THE CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY STRUCTURAL ENGINEER REGARDLESS IF WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.
- THE REVIEW OF ALL STRUCTURAL SUBMITTALS BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE TO INSURE THE INTENT HAS BEEN UNDERSTOOD AND THAT THE SPECIFIED CRITERIA HAVE BEEN USED. A COPY OF ALL STRUCTURAL SUBMITTALS WILL BE RETAINED FOR RECORD KEEPING PURPOSES ONLY. WHERE CRITICAL DIMENSIONS CANNOT BE DETERMINED FROM THE PLANS OR WHERE NEW WORK ADJOINS EXISTING CONSTRUCTION, OR WHERE ONE MATERIAL ADJOINS AN IN-PLACE MATERIAL, THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AS REQUIRED TO COMPLETE SHOP DRAWINGS AND INSTALLATION. REPORT ANY DISCREPANCIES EXCEEDING 3% BETWEEN FIELD MEASURED DIMENSIONS AND SCALED DRAWING DIMENSIONS TO ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- ARCHITECT AND CONTRACTOR SHALL COORDINATE DOOR AND WINDOW OPENINGS AND INTERIOR AND EXTERIOR FINISHES.
- DEMOLITION SHALL INCLUDE REMOVAL, TRANSPORT AND DISPOSAL OF ALL WASTE MATERIAL RELATED TO THE CONSTRUCTION OF THE PROJECT TO AN APPROVED FACILITY.

B. DESIGN LOADS

- LIVE LOADS :
ROOF..... 20 PSF
- DEAD LOADS :
ROOF..... 15 PSF
- SNOW LOADS :
GROUND..... 15 PSF
- WIND LOADS :
BASIC WIND SPEED (ULTIMATE)..... 115 MPH

- ALL STRUCTURAL ELEMENTS DESIGNED TO SUSTAIN SPECIFIED DEAD AND LIVE LOADS IN COMBINATION SO AS TO PRODUCE THE MOST CRITICAL CONDITIONS.
- WHERE CONFLICTS OCCUR BETWEEN NOTES OR DRAWINGS, THE CONTRACTOR SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL THE STRUCTURAL ENGINEER ISSUES A CLARIFICATION.
- THE STRUCTURAL CONTRACT DRAWINGS SHALL NOT BE USED AS TEMPLATES FOR SHOP DRAWINGS UNLESS EXPLICIT APPROVAL IS PROVIDED BY THE STRUCTURAL ENGINEER IN ADVANCE OF ANY SUBMITTALS. SUBMITTALS RECEIVED THAT HAVE USED THE DRAWINGS WITHOUT APPROVAL WILL BE REJECTED WITHOUT REVIEW.

C. STRUCTURAL STEEL

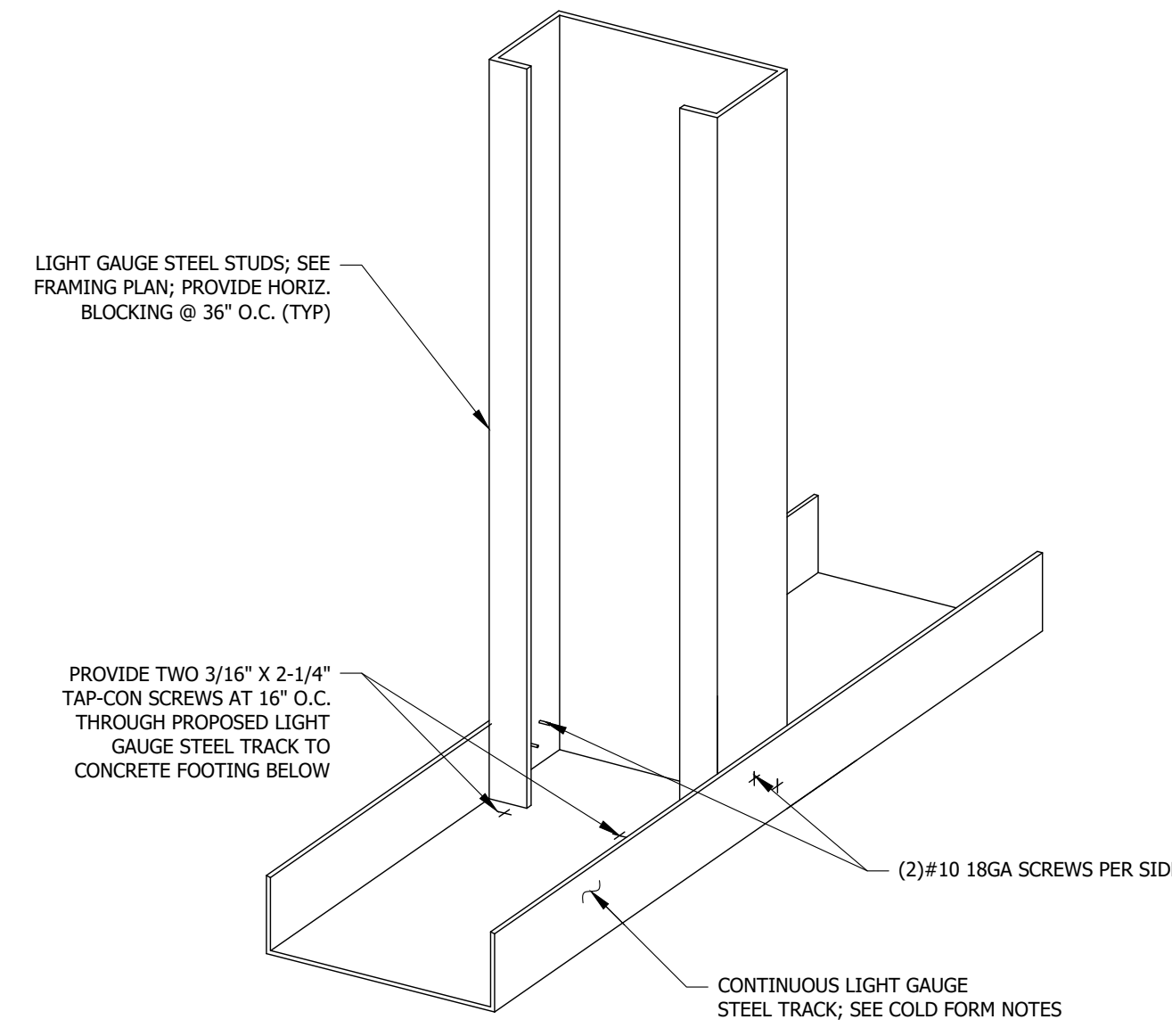
- STEEL WORK SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, NINTH EDITION.
- STRUCTURAL STEEL: DESIGN PER CURRENT EDITION A.I.S.C. AS FOLLOWS WITH ONE SHOP COAT OF PAINT.
ROLLED SHAPES..... ASTM A-992
PLATES, ANGLES, AND BARS..... ASTM A-36
TUBES..... ASTM A-500 GR. B
ANCHOR BOLTS (A.B.'S)..... ASTM F-1554, GRADE 36
USE ONLY WHERE SPECIFICALLY CALLED FOR.
- SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ALL EXTERIOR STEEL SHALL BE COATED IN INDUSTRIAL ENAMEL. TOUCH-UP DAMAGED SURFACED AFTER ERECTION.
- AT ANCHOR BOLTS, THE NUT SHALL BE DRAWN TIGHT AND PROJECTING THREADS UPSET.
- ALL WELDS SHALL CONFORM TO AWS D1.1, LATEST EDITION, BY CERTIFIED WELDERS. FOR ASTM A 36 STEEL, USE CLASS E70XX SERIES ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING. WELDED FIELD CONNECTIONS WILL BE ACCEPTED ONLY WHERE SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER IN WRITING. CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC VOLUME II, CONNECTIONS MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
- STEEL SURFACES TO BE FIELD WELDED SHALL BE CLEANED THOROUGHLY AND PRIMER REMOVED PRIOR TO WELDING. FOR FIELD WELDS EXPOSED TO THE ELEMENTS, COAT WELDS AND AREAS OF REMOVED PRIMER WITH INDUSTRIAL ENAMEL ONCE WELDING (AND INSPECTION OF WELDS, IF REQUIRED) IS COMPLETED.
- FIELD VERIFY SITE CONDITIONS PRIOR TO FABRICATION OF STEEL WORK.

D. COLD-FORMED STEEL FRAMING

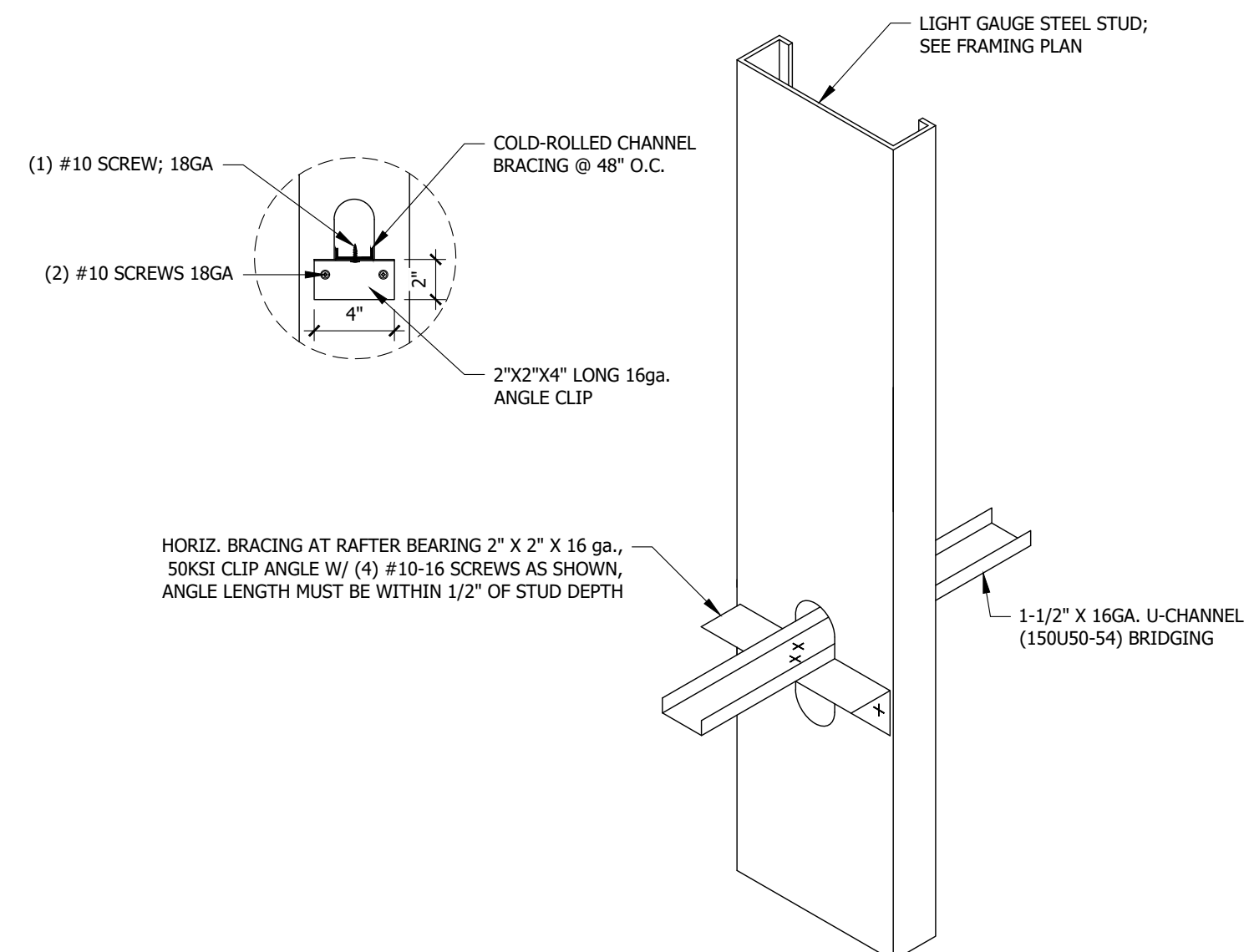
- ALL CURTAIN WALL LIGHT GAGE STRUCTURAL STEEL MEMBERS SHALL BE FORMED FROM STEEL SECTIONS THAT CONFORM TO THE SPECIFICATIONS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
 - ALL LIGHT GAGE STRUCTURAL STEEL MEMBERS SHALL HAVE A MINIMUM F_y = 33 KSI, BE SPACED AT 16" O/C U.O.N., WITH CROSS SECTION PROPERTIES EQUAL TO OR EXCEEDING:
- | SSMA DESI | F _y | DIMENSIONS | DESIGN THICK | A, IN2 | I _x , IN4 | I _y , IN4 | S _x , IN3 | R _x , IN | I _y , IN4 | R _y , IN |
|--------------------|----------------|-------------|--------------|--------|----------------------|----------------------|----------------------|---------------------|----------------------|---------------------|
| WALL STUDS: | 50KSI | 6" X 1-5/8" | 0.0566 | 0.556 | 2.860 | 0.954 | 2.270 | 0.180 | 0.570 | |
| WALL TRACK: | 50KSI | 6" X 1-1/2" | 0.0566 | 0.509 | 2.610 | 0.840 | 2.270 | 0.091 | 0.422 | |
| DOOR HEADER (BOX): | 50KSI | 6" X 1-5/8" | 0.0566 | 0.514 | 2.520 | 0.839 | 2.210 | 0.105 | 0.452 | |
- FASTEN TRACK TO SLAB W/ TITAN 1/2" Ø X 6" ANCHORS @ 32" O.C.

E. MISCELLANEOUS ITEMS

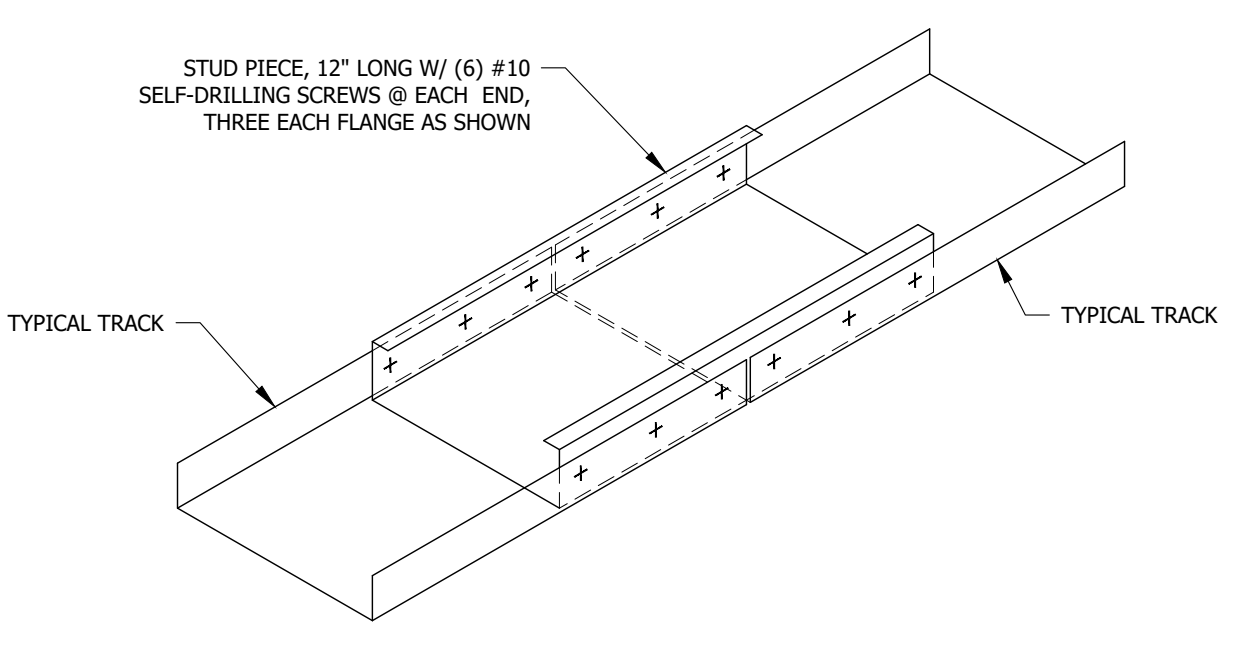
- EPOXY FOR THE SETTING OF DOWELS OR ANCHOR BOLTS SHALL BE SIMPSON SET EPOXY ADHESIVE. AS MANUFACTURED BY SIMPSON STRONG TIE OR AN APPROVED EQUIVALENT. INSTALLATION OF THE DOWELS/ ANCHOR BOLTS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- GROUT FOR SETTING BEARING SURFACES SHALL BE NON-SHRINK
- WALLS RETAINING EARTH, OTHER THAN WALLS DESIGNED AS CANTILEVERS, SHALL BE ADEQUATELY BRACED UNTIL CONCRETE FOR THE SUPPORTING SLABS HAS BEEN PLACED AND SUFFICIENTLY CURED.
- UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED, OR OTHERWISE WEAKENED WITHOUT THE PERMISSION OF THE STRUCTURAL ENGINEER.



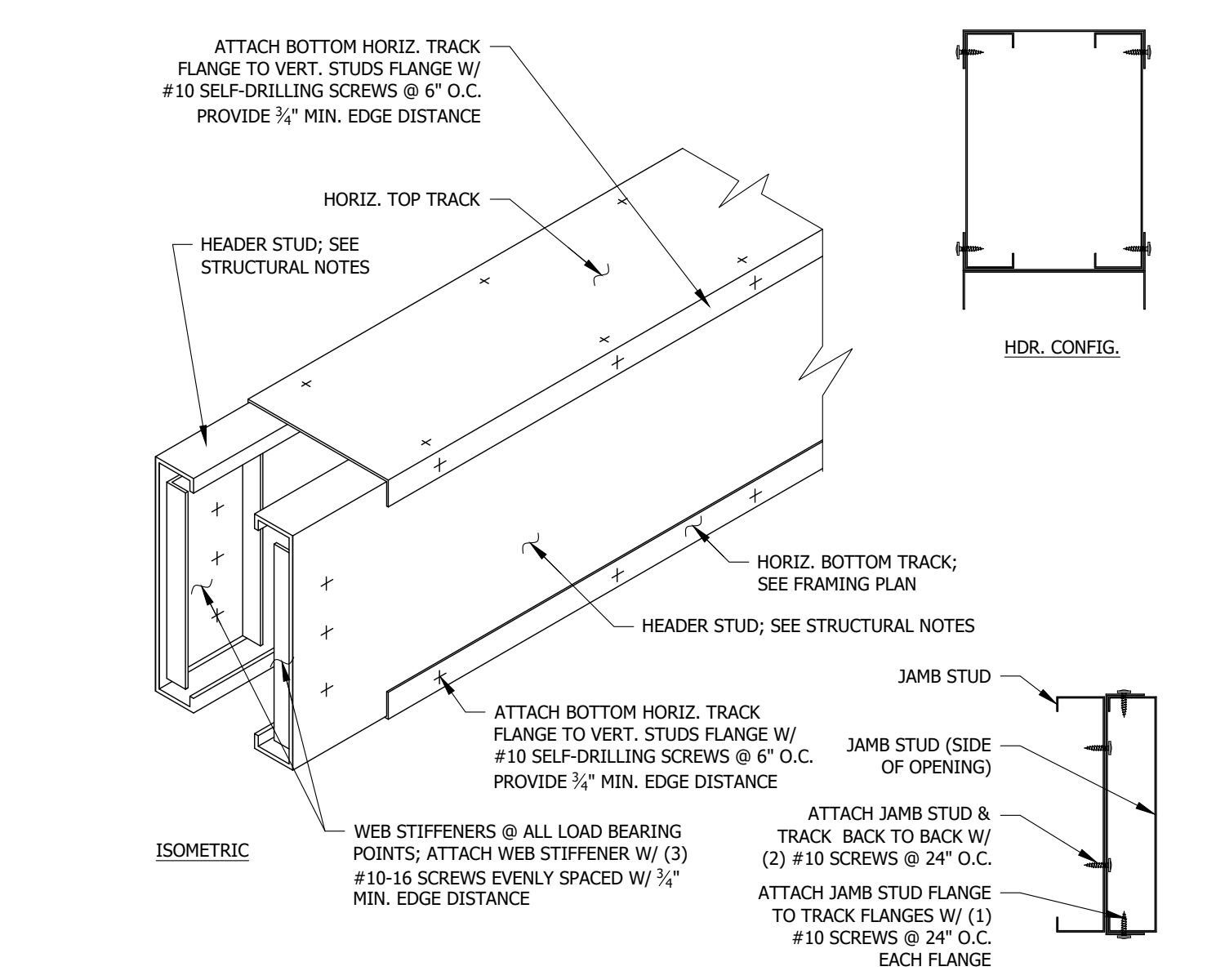
1 S0.1 L.G. STUD TO TRACK DETAIL (TYP.)
SCALE: 1-1/2"=1'-0"



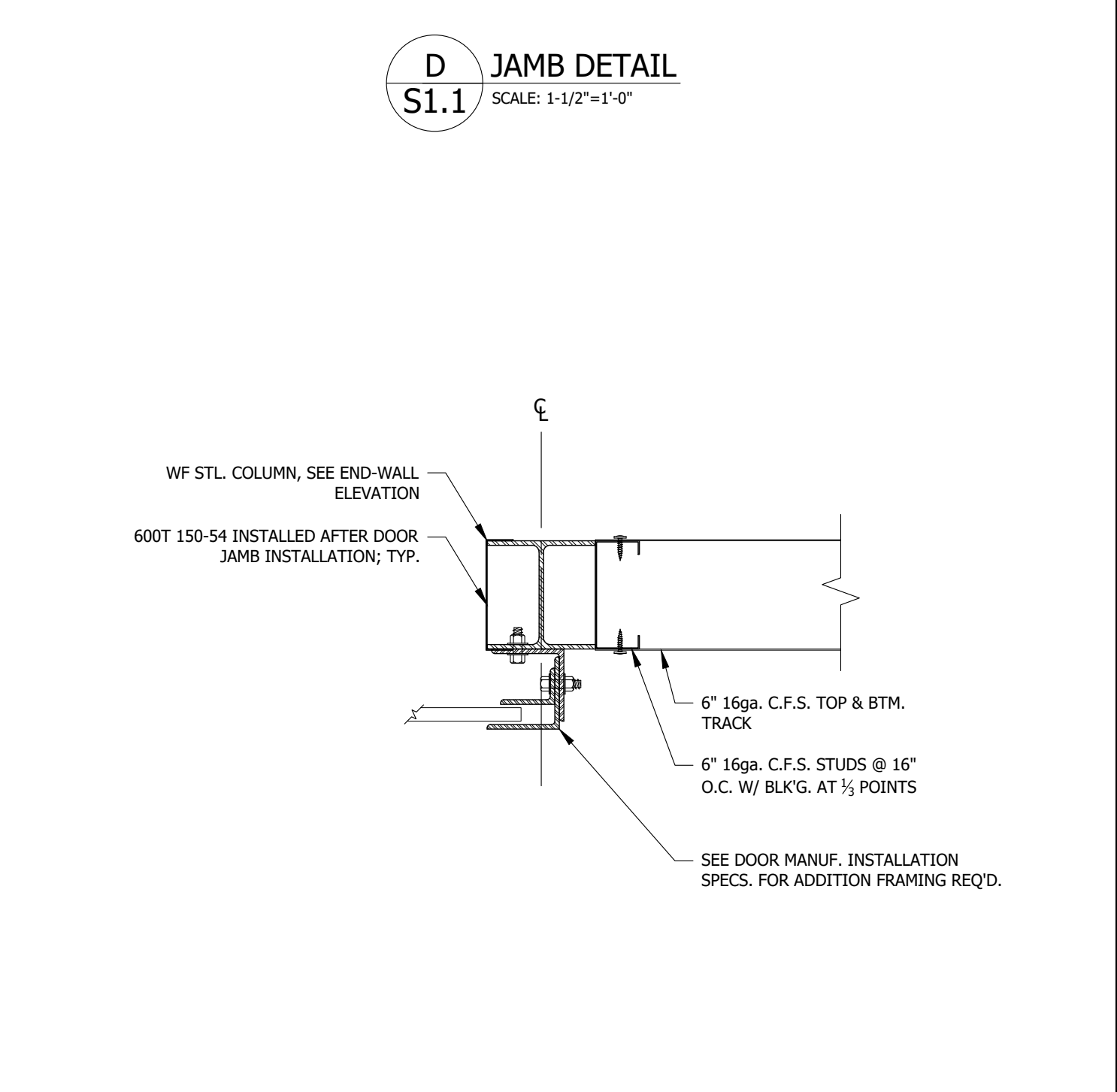
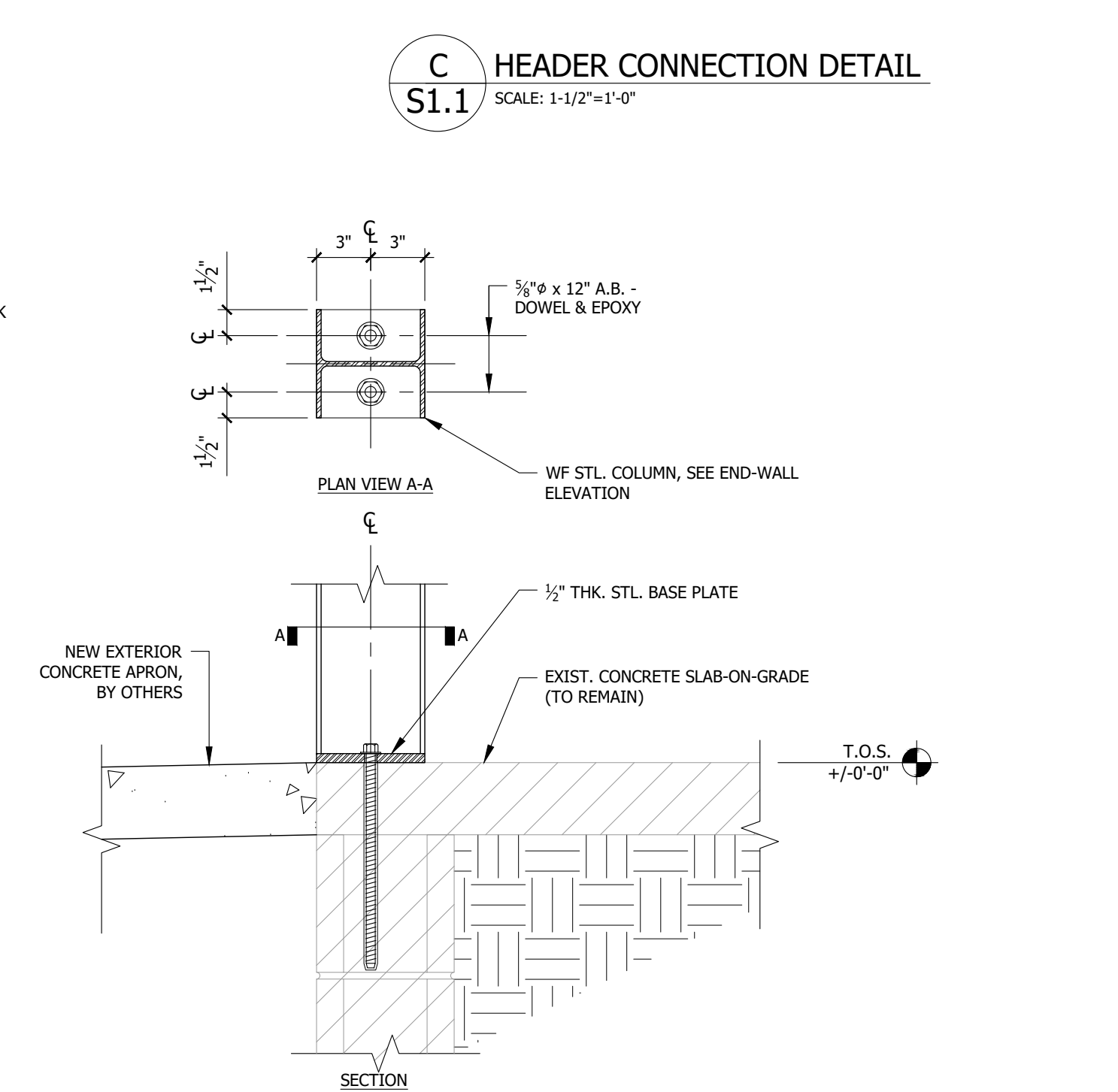
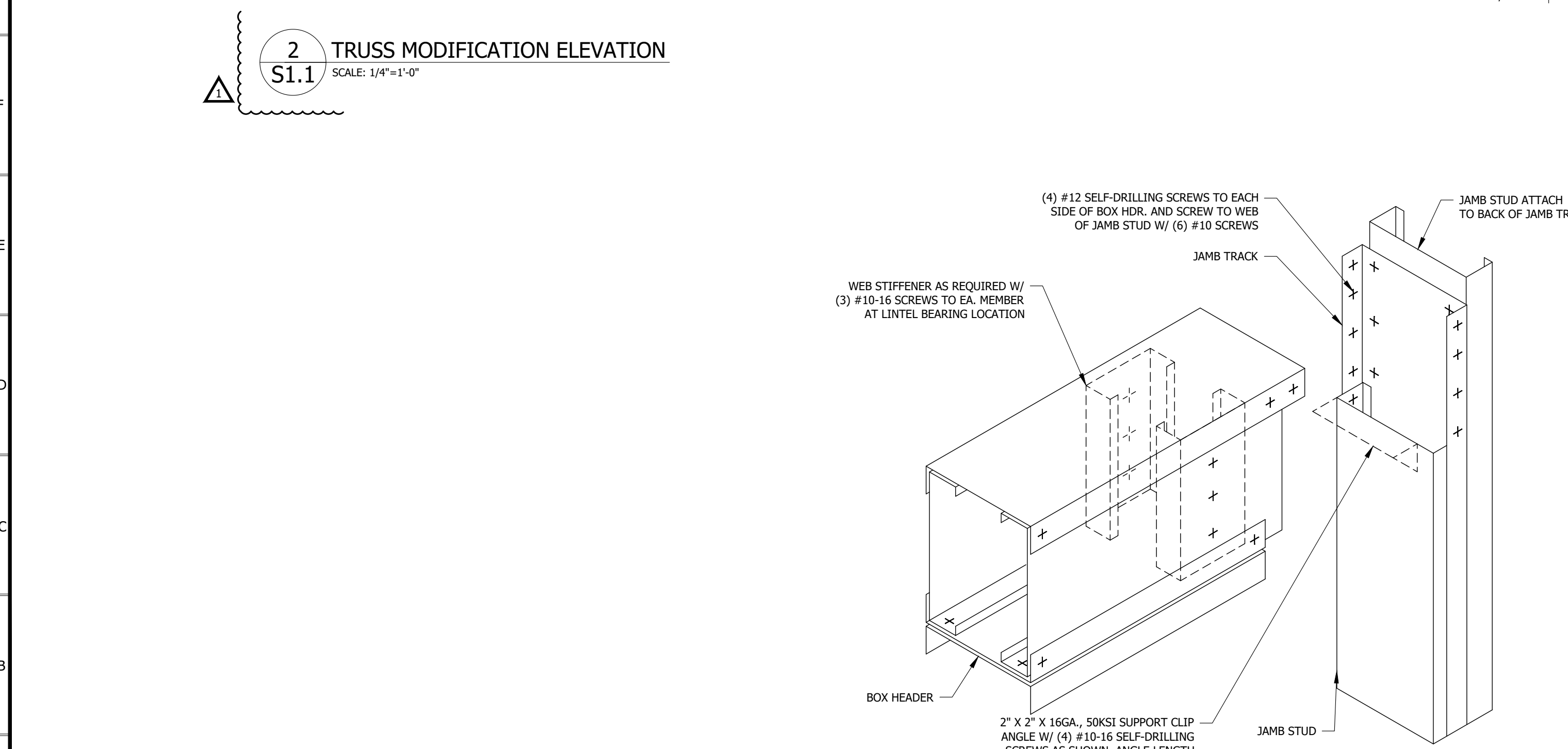
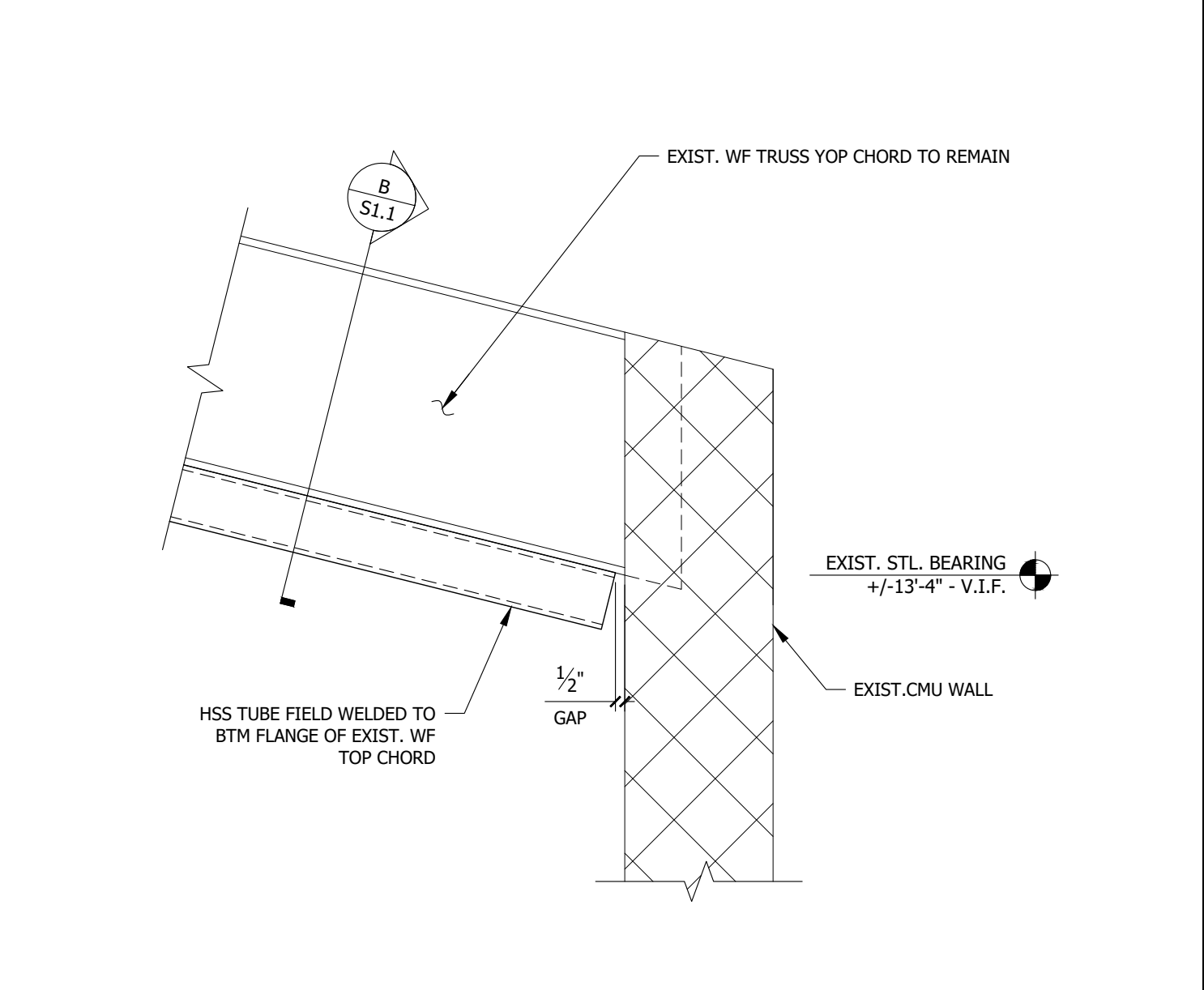
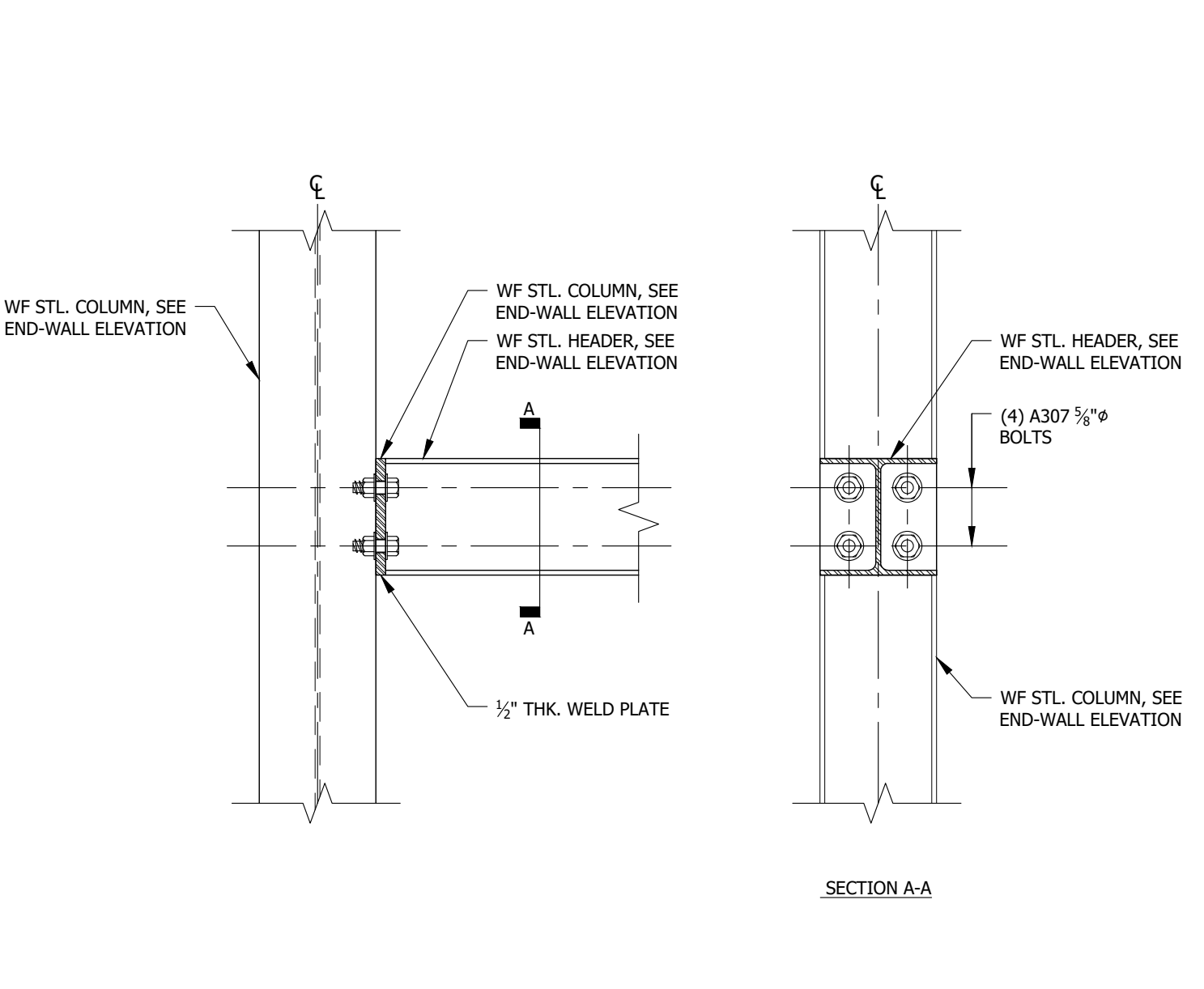
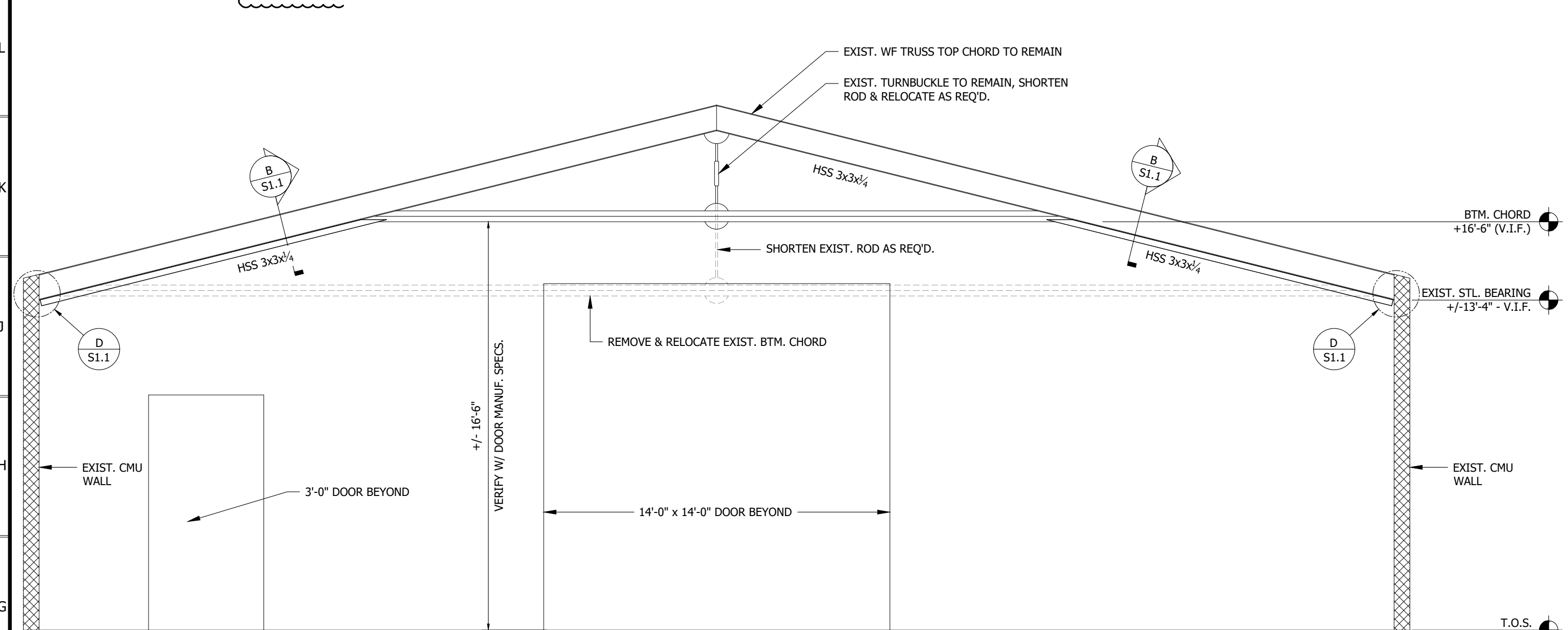
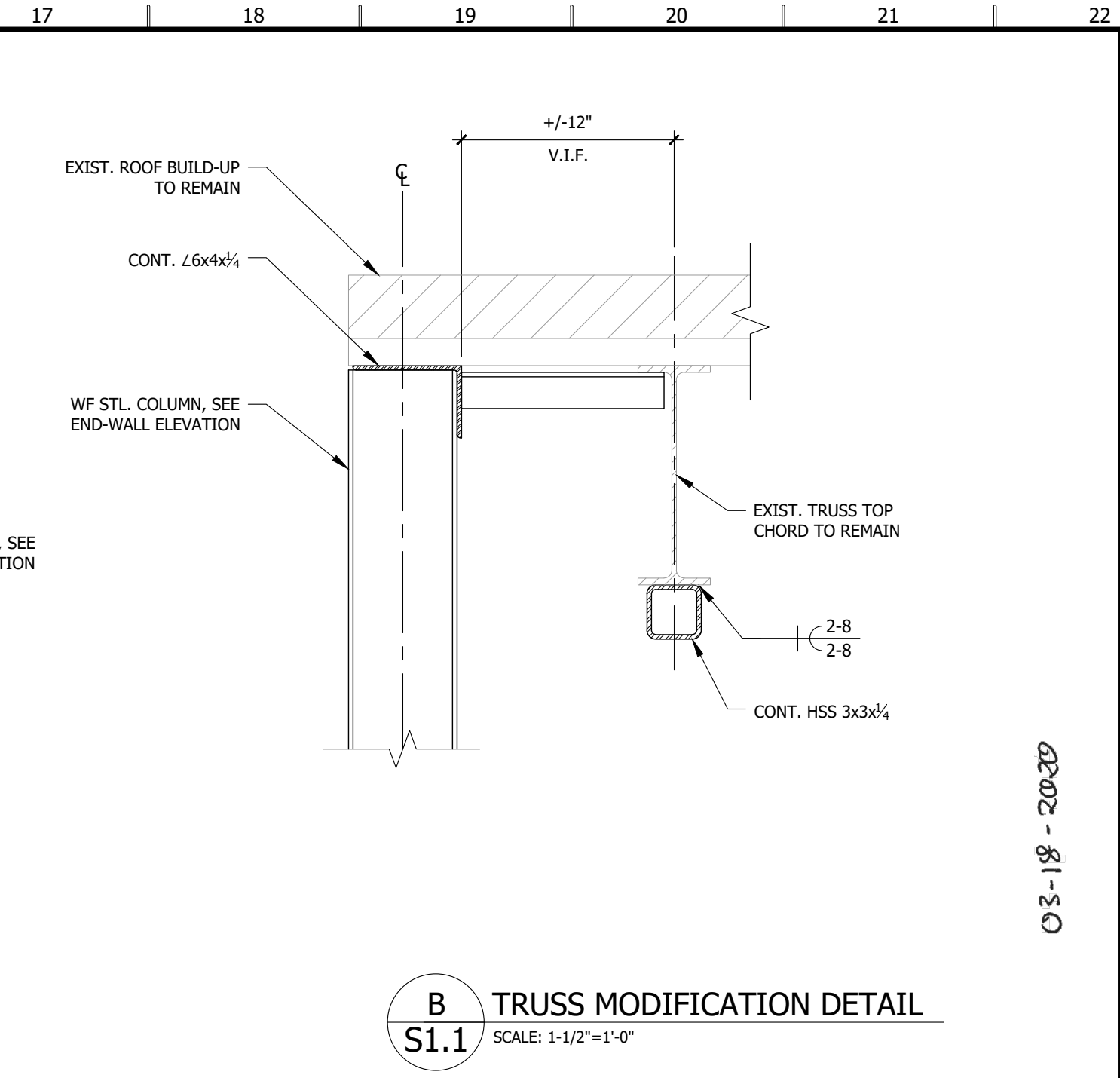
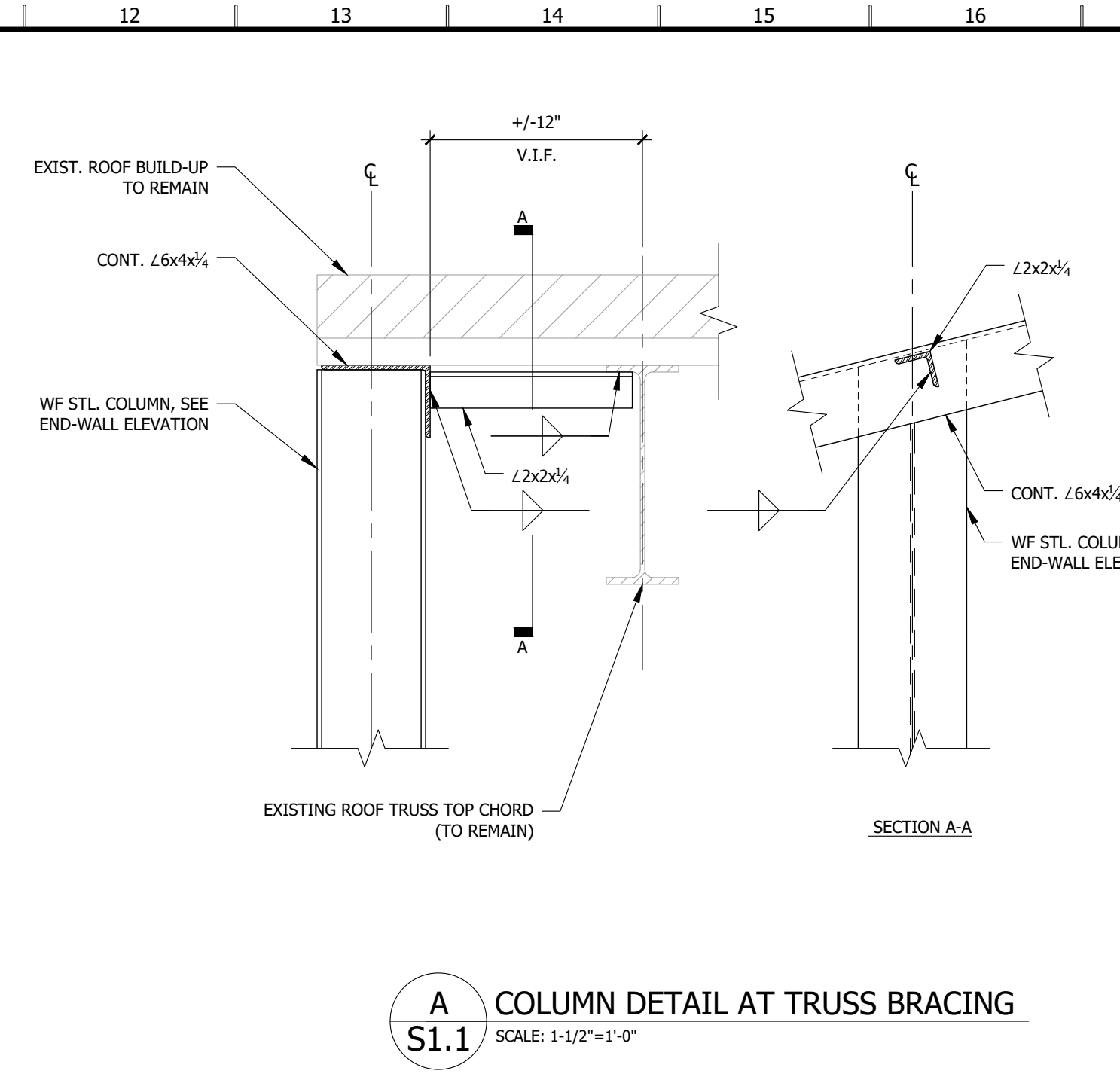
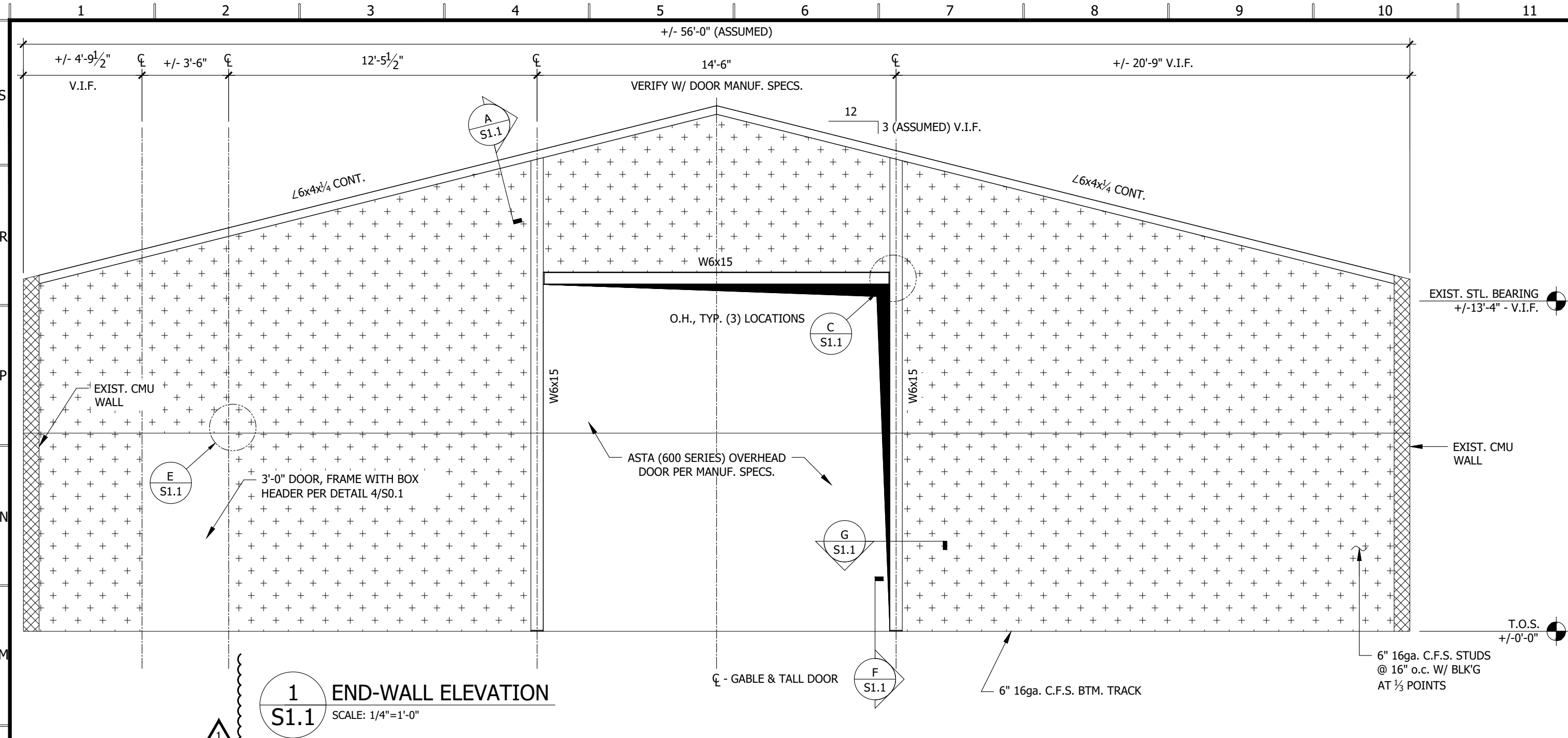
2 S0.1 BLOCKING CONNECTION DETAIL (TYP.)
SCALE: 1-1/2"=1'-0"



3 S0.1 TRACK SPLICE DETAIL (TYP.)
SCALE: 1-1/2"=1'-0"



4 S0.1 STUD WALL BLOCKING DETAIL (TYP.)
SCALE: 1-1/2"=1'-0"



03-19-20-20

Date:	03/18/2020
REVISIONS/SUBMISSIONS	
No.	1
CONSTRUCTION SET	

Designed:	FUN	Scale:	AS NOTED	Date:	03-04-20
Drawn:	PLY	Checked:	FUN	53 Ashland Avenue, Suite 101, Asheville, NC 28801	
Project No:			Phone#: (828) 232-4448		
Drawing Title:			Fax#: (828) 232-5224		
			NC Cert. # C-3133		

MEDLOCK

& ASSOCIATES

ENGINEERING, P.A.

STRUCTURAL • CONSULTING • CONSTRUCTION ASSISTANCE

BUNCOMBE COUNTY SCHOOLS T.C. ROBERSON HIGH SCHOOL POOL HOUSE RENOVATIONS	NORTH CAROLINA ASHEVILLE
Project No: 652319	Drawing Title: END-WALL & TRUSS MODIFICATION ELEVATIONS & DETAILS
Drawing No.: S1.1	Page: 2 OF 2