



**Straub Construction Company, Inc.**  
7775 Meadow View Drive  
Shawnee, Kansas 66227  
P: (913) 451-8828

**Project: 665 John Knox Village Courtyards - Bldg E**  
515 NW Moore St  
Lee's Summit, Missouri 64081

## Submittal #02.0 - 051200-02 Shop Drawings 051200 - STRUCTURAL STEEL FRAMING

|                        |                                                           |                   |                                                    |
|------------------------|-----------------------------------------------------------|-------------------|----------------------------------------------------|
| Revision               | 0                                                         | Submittal Manager | De Nell Morris (Straub Construction Company, Inc.) |
| Status                 | Open                                                      | Date Created      | May 20, 2024                                       |
| Issue Date             | May 20, 2024                                              | Spec Section      | 051200 - STRUCTURAL STEEL FRAMING                  |
| Responsible Contractor | KC Fab LLC                                                | Received From     | Jacob Greene (KC Fab LLC)                          |
| Received Date          |                                                           | Submit By         |                                                    |
| Final Due Date         | May 30, 2024                                              | Lead Time         |                                                    |
|                        |                                                           | Cost Code         |                                                    |
| Location               |                                                           | Type              | Shop Drawing                                       |
| Approvers              | A. Faye Doughty (SFCS)                                    |                   |                                                    |
| Ball in Court          | A. Faye Doughty (SFCS)                                    |                   |                                                    |
| Distribution           | Daron Speight (SFCS), Justin Thompson (John Knox Village) |                   |                                                    |
| Description            |                                                           |                   |                                                    |

### Submittal Workflow

| Name                            | Sent Date | Due Date     | Returned Date | Response | Attachments |
|---------------------------------|-----------|--------------|---------------|----------|-------------|
| General Information Attachments |           |              |               |          |             |
| A. Faye Doughty                 |           | May 30, 2024 |               | Pending  |             |

05/20/2024 11:25:48 AM  
**Straub Construction Reviewed**  
665-051200-02

WE HEREBY REPRESENT THAT WE HAVE DETERMINED AND VERIFIED ALL MATERIALS, FIELD MEASUREMENTS, AND FIELD CONSTRUCTION CRITERIA, RELATED THERETO, AND THAT WE HAVE CHECKED AND COORDINATED ALL SUCH DATA WITH THE REQUIREMENTS OF THE WORK, THE SURROUNDING CONDITIONS, AND THE CONTRACT DOCUMENTS, AND HEREBY APPROVE THIS SUBMISSION.

CONTRACTOR: Straub Construction DATE: 5/20/24

1. Architect[ ] will not review submittals received from Contractor that do not have the above statement, signed and dated.

**SFCS**

Architecture  
Engineering  
Planning  
Interiors

SFCS Inc. ■ 305 South Jefferson Street  
Roanoke, Virginia 24011.2003  
540.344.6664 ■ Fax 540.343.6925  
www.sfcs.com

Comm. No. 23104.00

Date 5/29/24

By MSH/LBF

Approval of this submittal is limited to checking for conformance with information given and design concept expressed in the Contract Documents. Approval does not release the contractor from responsibility for accuracy of measurements and details, nor does approval authorize any variation from Contract Documents. Review is limited to the provisions of the General Conditions of the Contract for Construction.



Approved as Noted

Fabrication may proceed on the basis of corrections indicated (if any).



Not Approved

Fabrication may NOT proceed. Revisions shall be made and drawings resubmitted.



1536 N.E. 96th Street

Liberty, Mo 64068

Date: 5/17/2024

Transmittal # 02A

H&amp;R Job # M24014

Customer Job# --

JOHN KNOX VILLAGE  
COURTYARDS-BUILDING ETo: KC FAB  
13720 Botts Rd,  
Grandview, MO 64030.

Attention: John Derham

Sent Via: Email

ERECTION PLANS &amp; DETAIL SHEETS

TO BE RETURNED BY: PLEASE RETURN WITHIN 10 DAYS SO SCHEDULE IS NOT DELAYED

| <u>Drawing Number</u> | <u>Revision</u> | <u>Drawing Number</u> | <u>Revision</u> |
|-----------------------|-----------------|-----------------------|-----------------|
| E1-E8                 | A               |                       |                 |
| B101-B104             | A               |                       |                 |
| C101-C109             | A               |                       |                 |
| M106,M113,M115-M117   | A               |                       |                 |

**TOTAL SHEETS RELEASED:26**

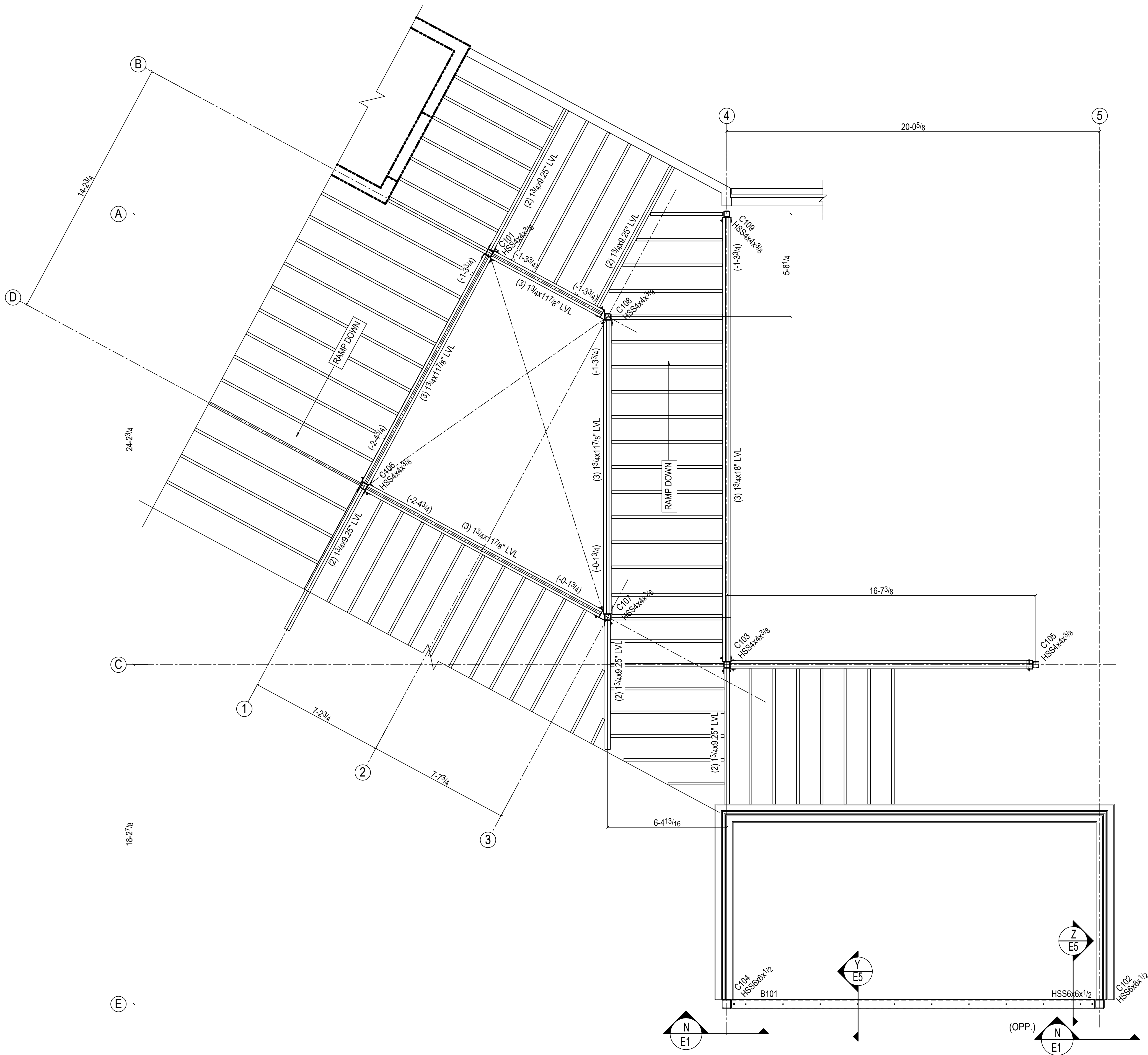
This material is being transmitted for the purpose listed below:

For Approval

Remarks:

If enclosures are not as noted, please notify at once.

**From:** Brandon Eichhorst  
H&R Steel Detailing

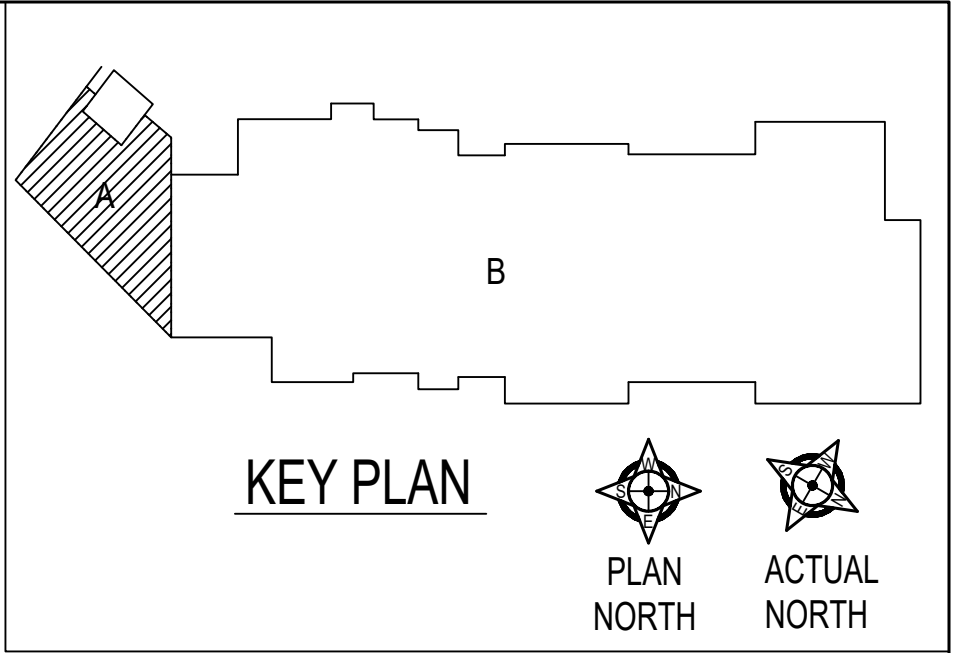


SECOND FLOOR FRAMING PLAN  
T.O.S.ELEVATION:11-4 (U.O.N.)



PLAN  
NORTH

ACTUAL  
NORTH

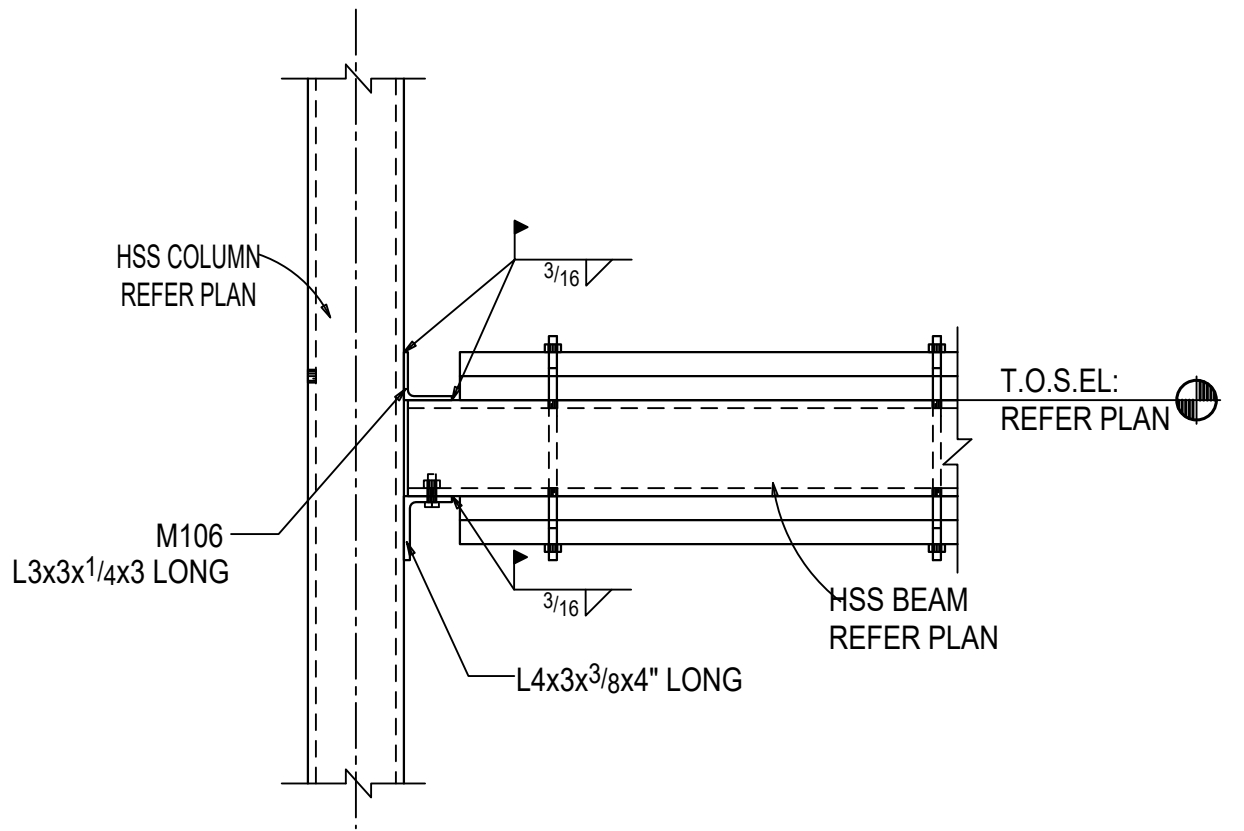


KEY PLAN



PLAN  
NORTH

ACTUAL  
NORTH



SECTION N-N  
(REF.6/S3.2)

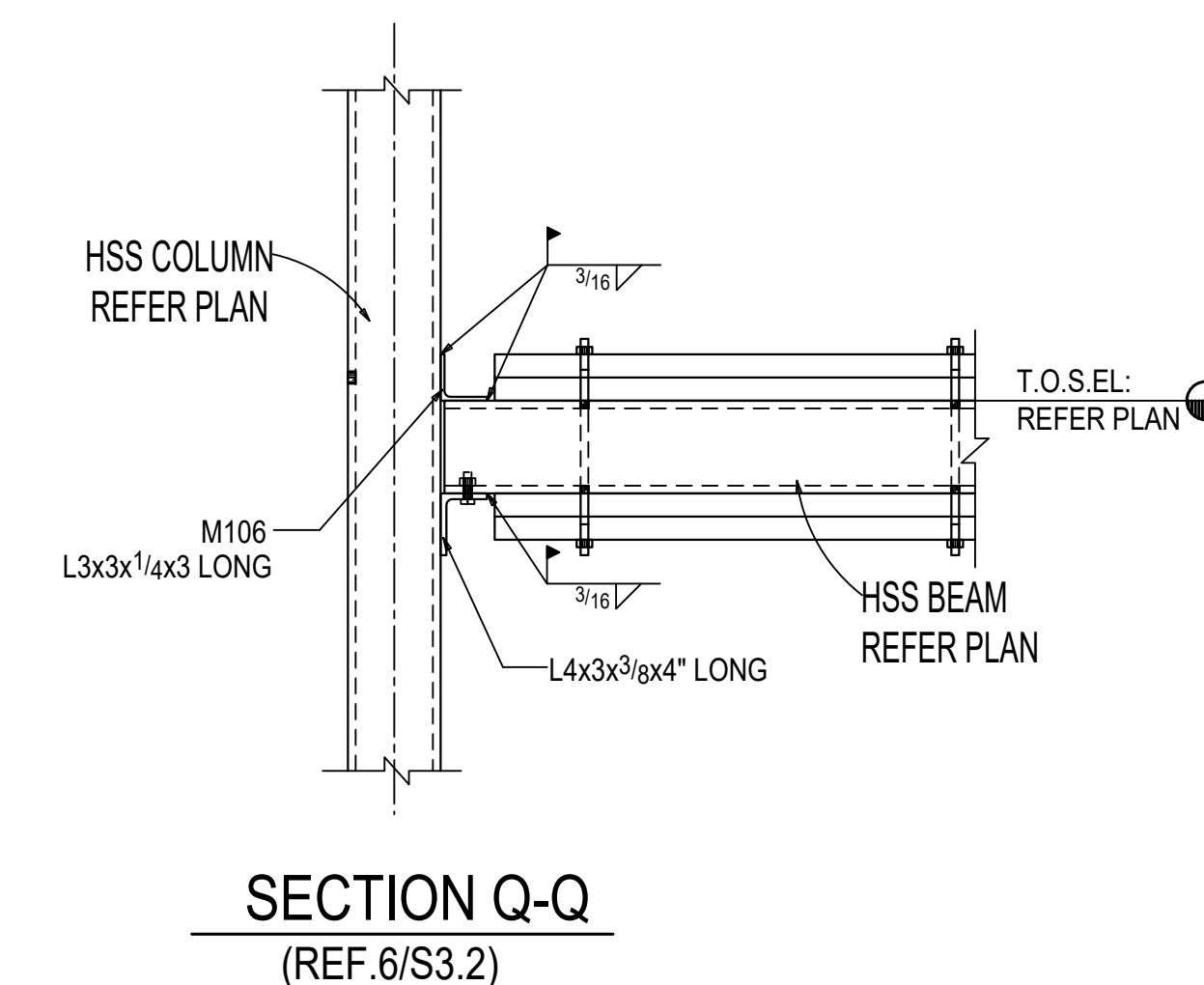
- NOTES:  
1.REFER DESIGN DRAWING SHEET S1.2,S1.7 & S3.2  
2.T.O.S.E.L. INDICATES TOP OF STEEL ELEVATION.

FOR APPROVAL ONLY  
NOT FOR CONSTRUCTION

|                       |                       |
|-----------------------|-----------------------|
| ISSUE #2              |                       |
| ISSUE #1              |                       |
| CALCS                 |                       |
| APPROVAL (B)          |                       |
| REF: S1.2,S1.7 & S3.2 | APPROVAL (A) 05-17-24 |

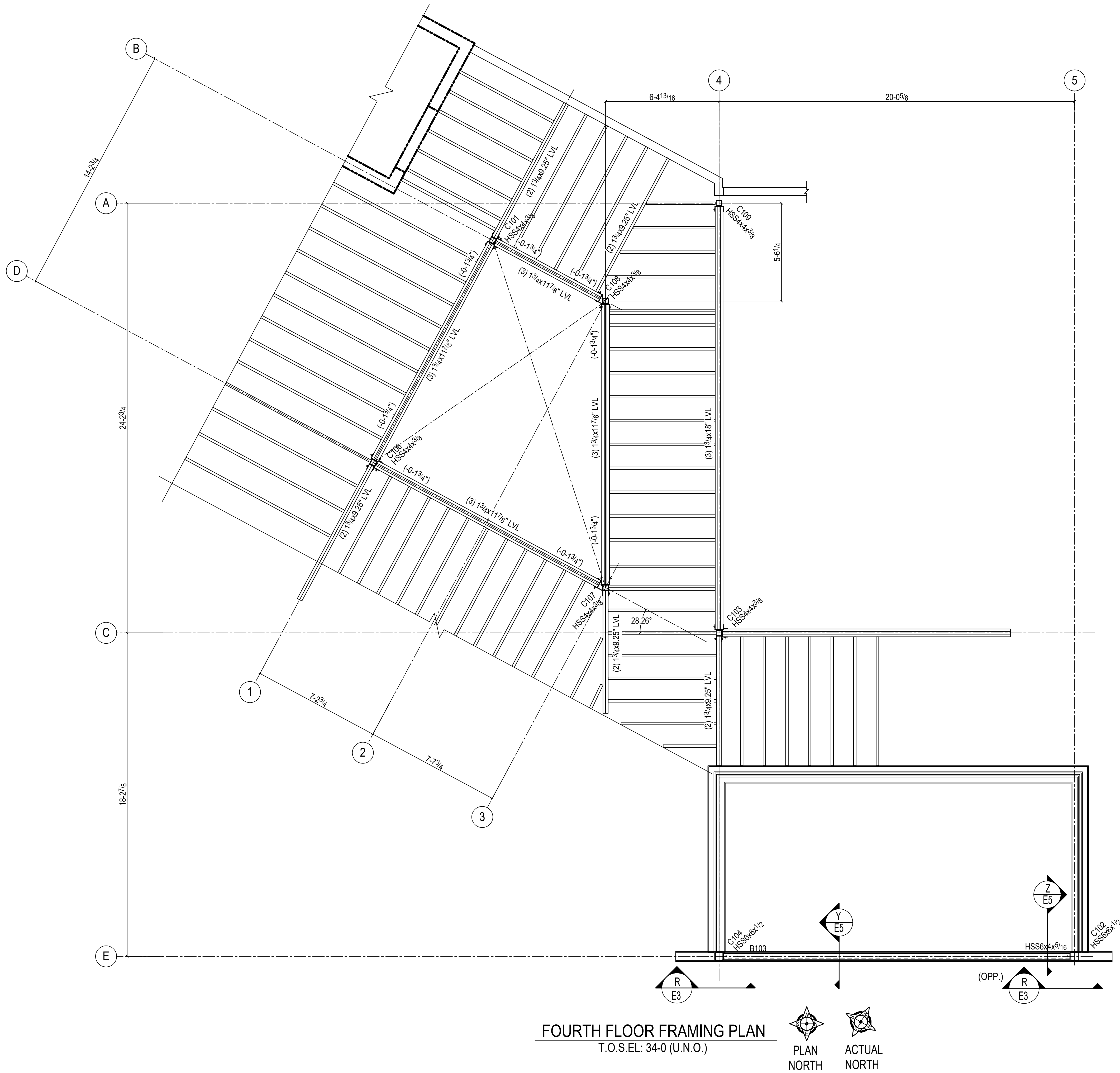
|                                               |                                                                                                                                                |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| CONTRACTOR:<br><b>STRAUB<br/>CONSTRUCTION</b> |  <b>KC FAB</b><br>13720 Botts Rd,<br>Grandview, MO 64030. |
| BOLTS:<br>3/4 DIA A325N<br>BOLTS U.N.O.       | PROJECT: <b>JOHN KNOX VILLAGE BUILDING E</b><br>LEE'S SUMMIT, MO                                                                               |
| WELD:<br><b>E70XX</b>                         | TITLE: <b>SECOND FLOOR FRAMING PLAN</b>                                                                                                        |
| CHECKED: <b>ABD</b>                           | DETAILER: <b>VBB</b> JOB NUMBER: <b>----</b> SHEET: <b>E1</b><br>ISSUE: <b>A</b>                                                               |



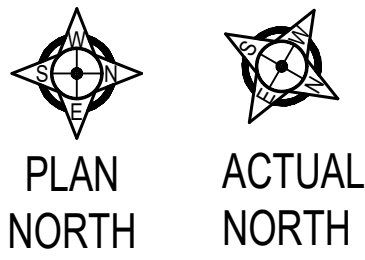


|              |          |
|--------------|----------|
| ISSUE #2     |          |
| ISSUE #1     |          |
| CALCS        |          |
| APPROVAL (B) |          |
| APPROVAL (A) | 05-17-24 |

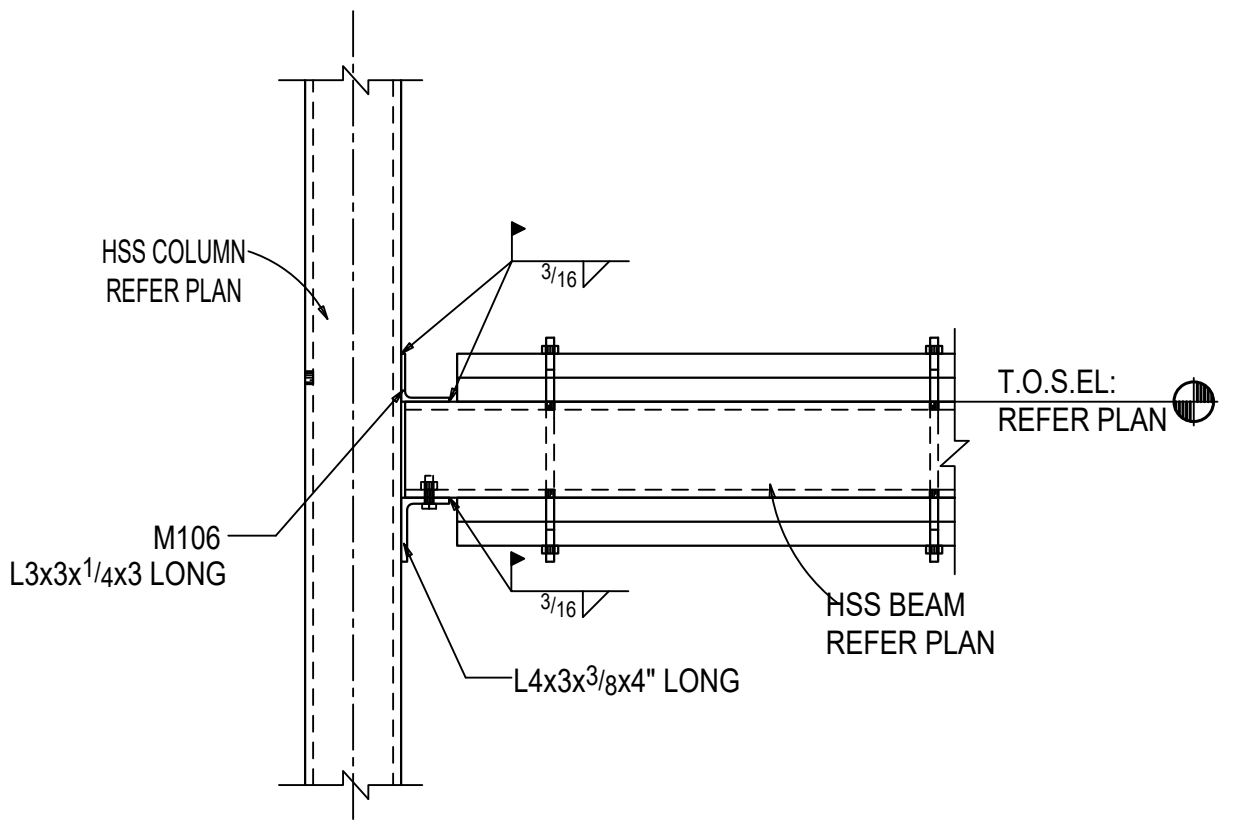
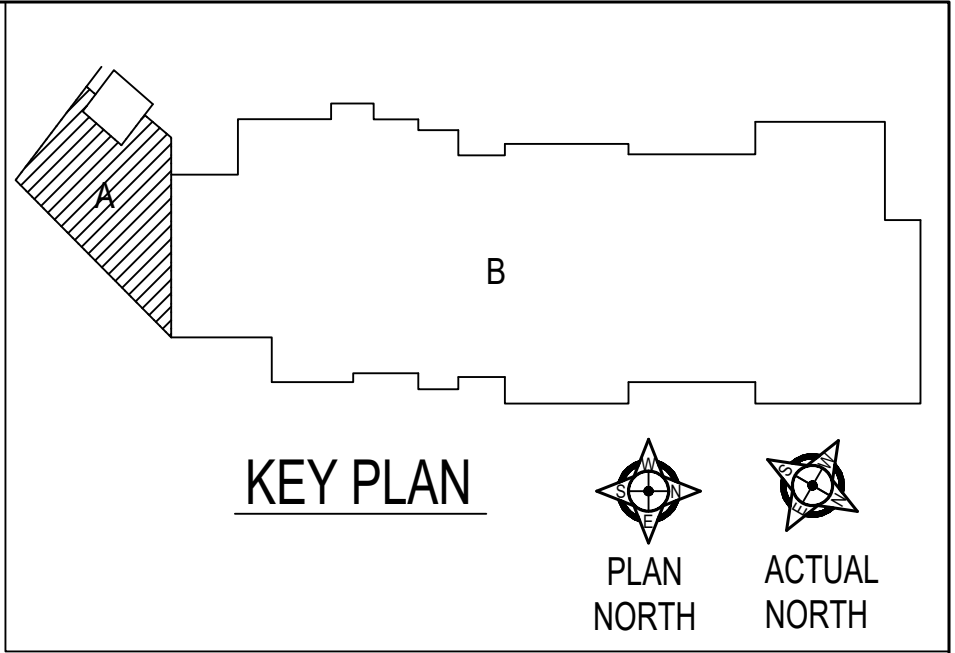




FOURTH FLOOR FRAMING PLAN  
T.O.S.EL: 34-0 (U.N.O.)



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NOT FOR CONSTRUCTION

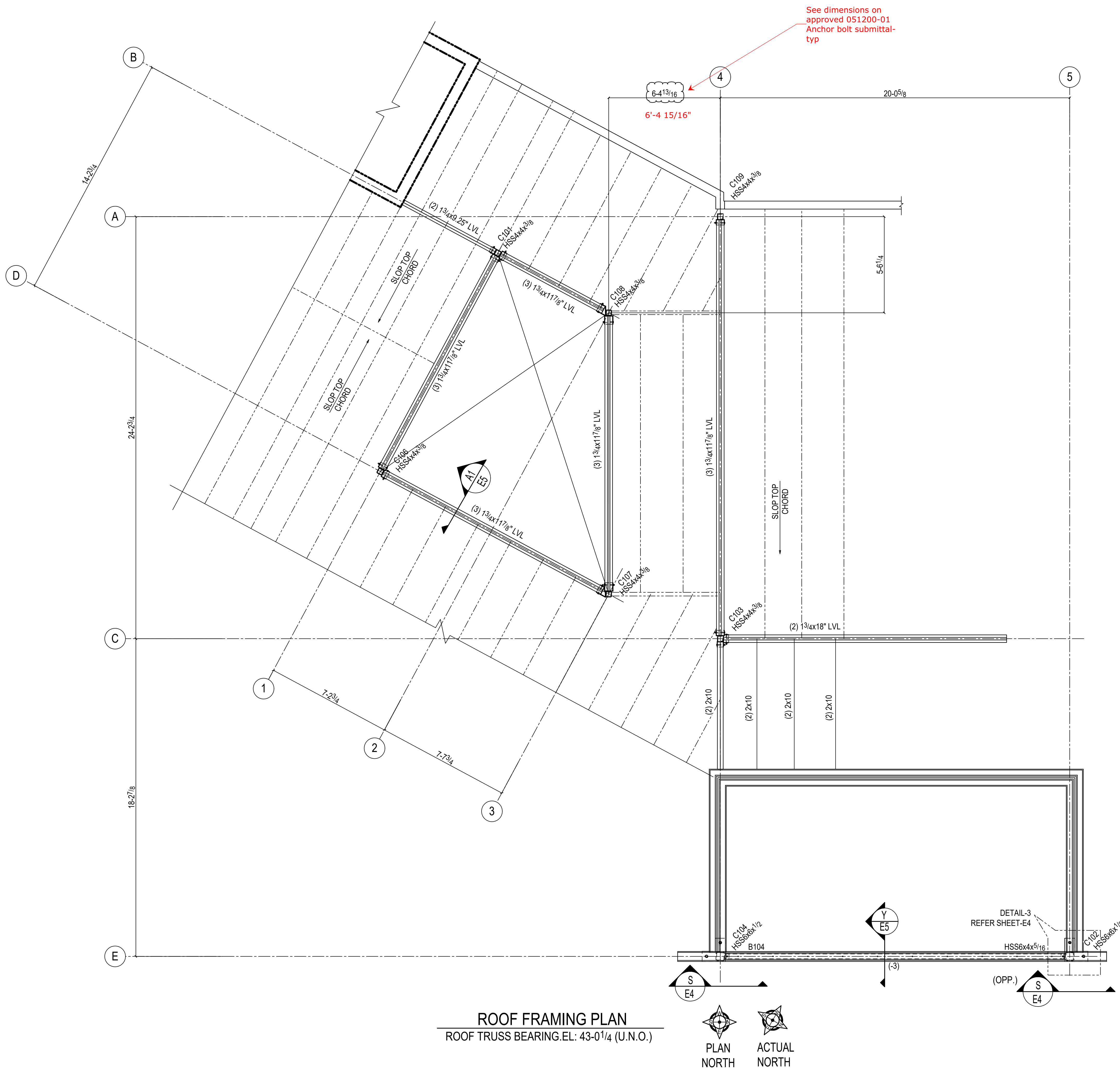


SECTION R-R  
(REF.6/S3.2)

- NOTES:  
1.REFER DESIGN DRAWING SHEET S1.9,S3.2.  
2.T.O.S.EL. INDICATES TOP OF STEEL ELEVATION.

|                                                 |                                              |                         |                  |
|-------------------------------------------------|----------------------------------------------|-------------------------|------------------|
| CONTRACTOR:<br><b>STRAUB<br/>CONSTRUCTION</b>   | ISSUE #2                                     |                         |                  |
|                                                 | ISSUE #1                                     |                         |                  |
|                                                 | CALCS                                        |                         |                  |
|                                                 | APPROVAL (B)                                 |                         |                  |
| REF: <b>S1.9,S3.2</b>                           |                                              | APPROVAL (A)            | 05-17-24         |
| BOLTS:<br><b>3/4 DIA A325N<br/>BOLTS U.N.O.</b> | PROJECT: <b>JOHN KNOX VILLAGE BUILDING E</b> |                         |                  |
|                                                 | LEE'S SUMMIT, MO                             |                         |                  |
|                                                 | TITLE: <b>FOURTH FLOOR FRAMING PLAN</b>      |                         |                  |
|                                                 |                                              |                         |                  |
| WELD:<br><b>E70XX</b>                           | DETAILER: <b>VBB</b>                         | JOB NUMBER: <b>----</b> | SHEET: <b>E3</b> |
|                                                 | CHECKED: <b>RS</b>                           |                         | ISSUE: <b>A</b>  |

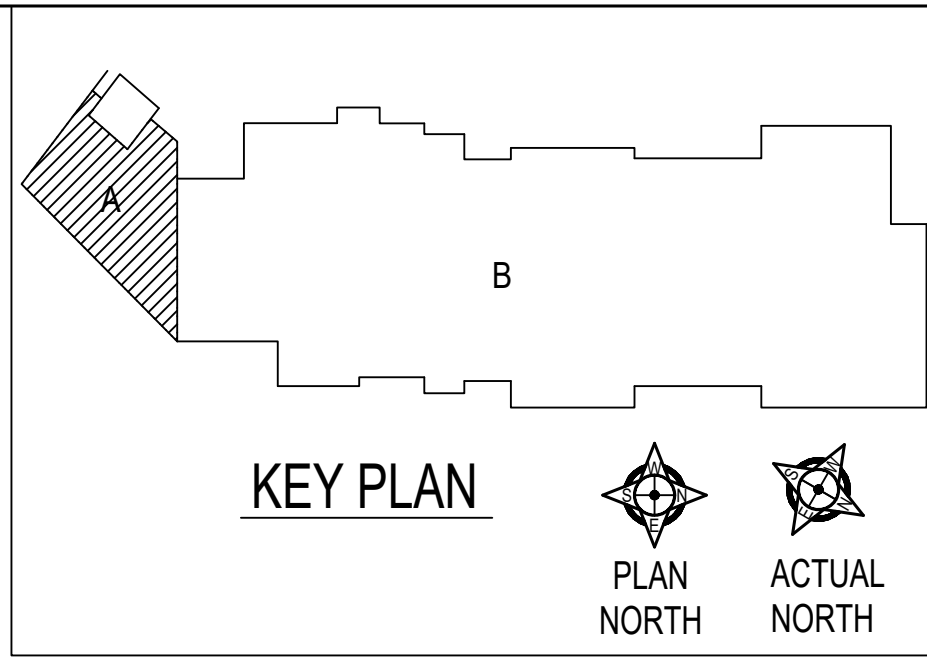




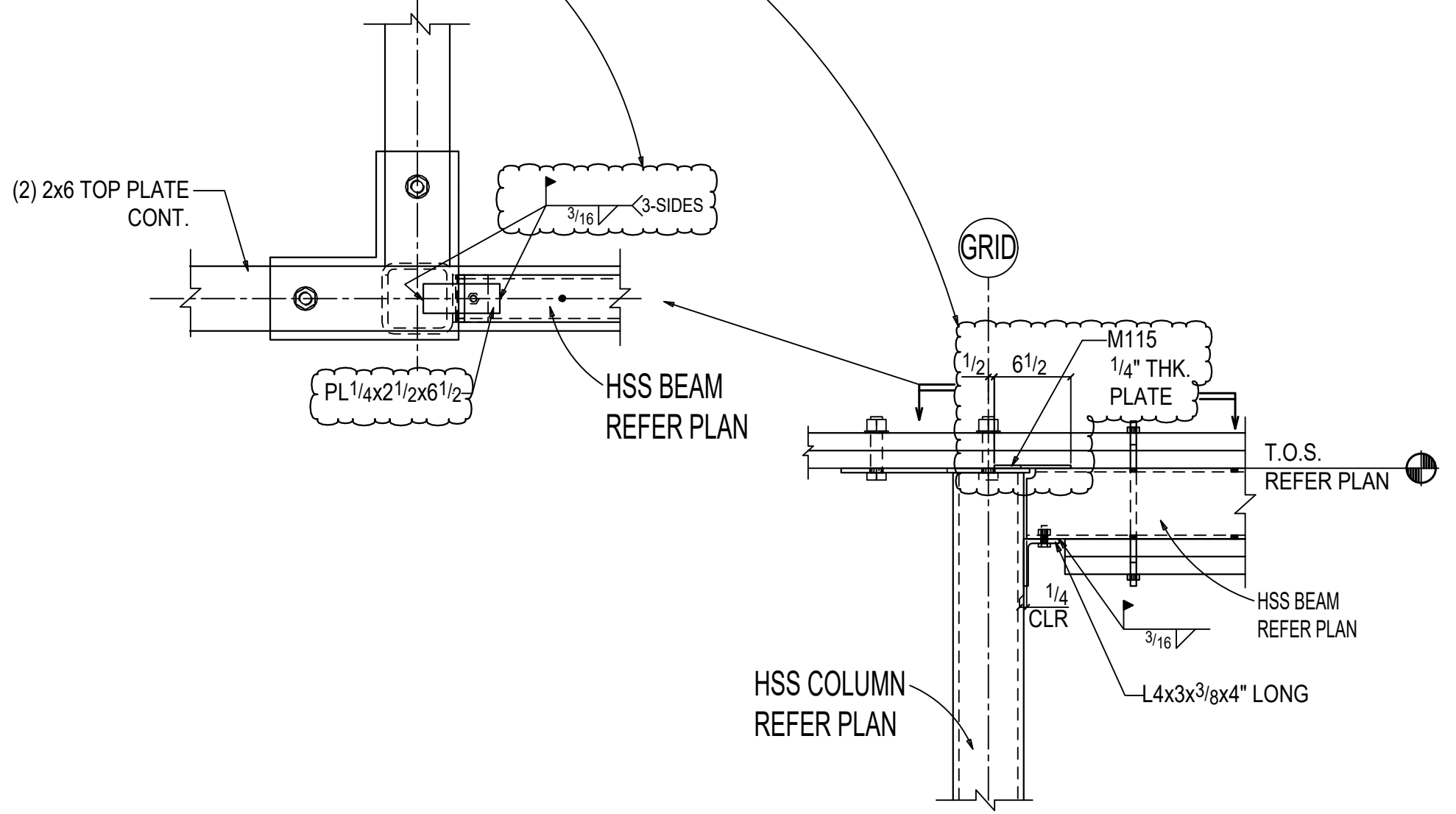
ROOF FRAMING PLAN  
ROOF TRUSS BEARING.EL: 43-0 1/4 (U.N.O.)

APPROVER, PLEASE VERIFY THE BEAM TOP CONNECTION. ACCORDING TO SECTION 6/S3.2, WE ARE REQUIRED TO PROVIDE AN HSS BEAM TO HSS COLUMN SEATED CONNECTION. HOWEVER, AT THE ROOF LEVEL, AS PER DETAIL 13/S3.3, THEY HAVE SHOWN A 3/8" CAP PLATE CONNECTION. DUE TO THIS, WE CAN ONLY ADD ONE ANGLE AT THE BOTTOM OF THE HSS BEAM. SO, INSTEAD OF A TOP ANGLE, WE ARE USING A 1/4" PLATE AT THE TOP OF THE CAP PLATE.

Approved.



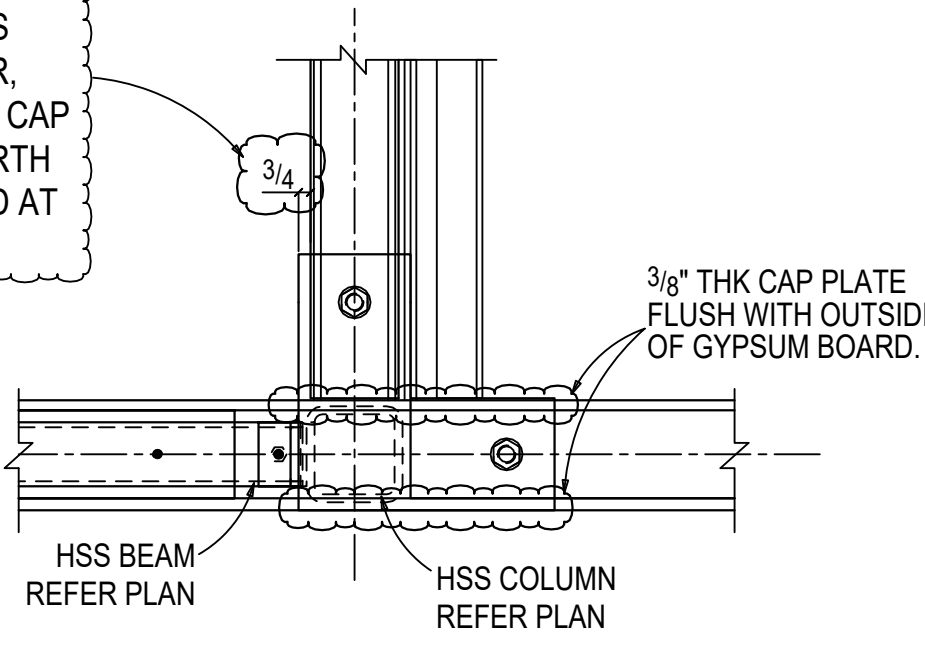
KEY PLAN



SECTION S-S  
(REF. 6/S3.2)

"APPROVER, PLEASE VERIFY AT THE CLOUDED LOCATION AS PER SECTION 13/S3.3, WE HAVE PROVIDED A 3/8" THICK CAP PLATE THAT IS 1/2" WIDER THAN THE HSS TUBE. HOWEVER, BASED ON THE FRAMING CONDITION, THE CAP PLATE PROTRUDES BY 3/4" FROM THE NORTH SIDE WALL AND CUTS THE GYPSUM BOARD AT THE EAST & WEST SIDE OF THE WALL.

Reduce plate to match wall stud depths



DETAIL-3

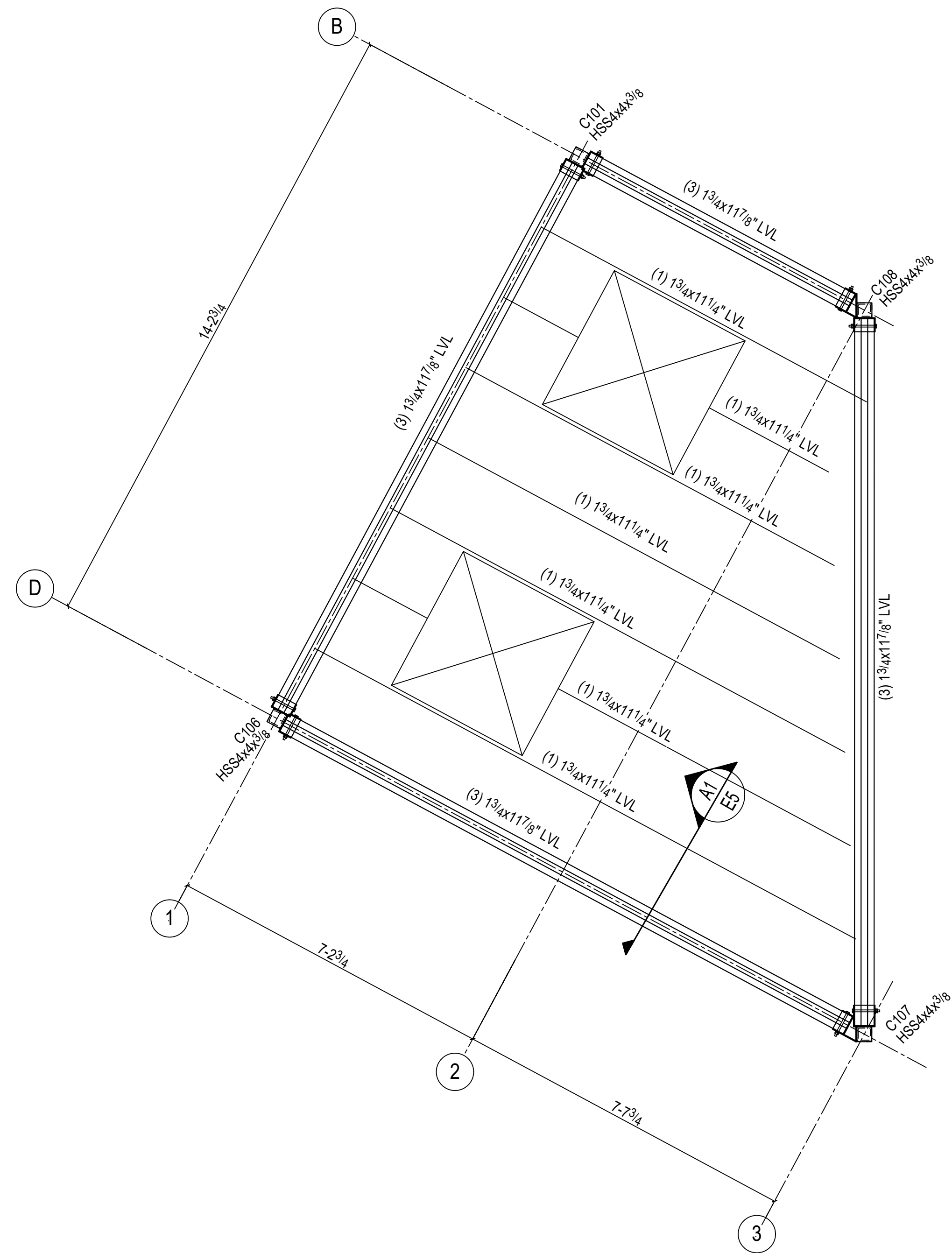
- NOTES:
- 1.REFER DESIGN DRAWING SHEET S1.10,S3.2.
  - 2.ROOF TRUSS BEARING.EL INDICATES ROOF TRUSS BEARING ELEVATION

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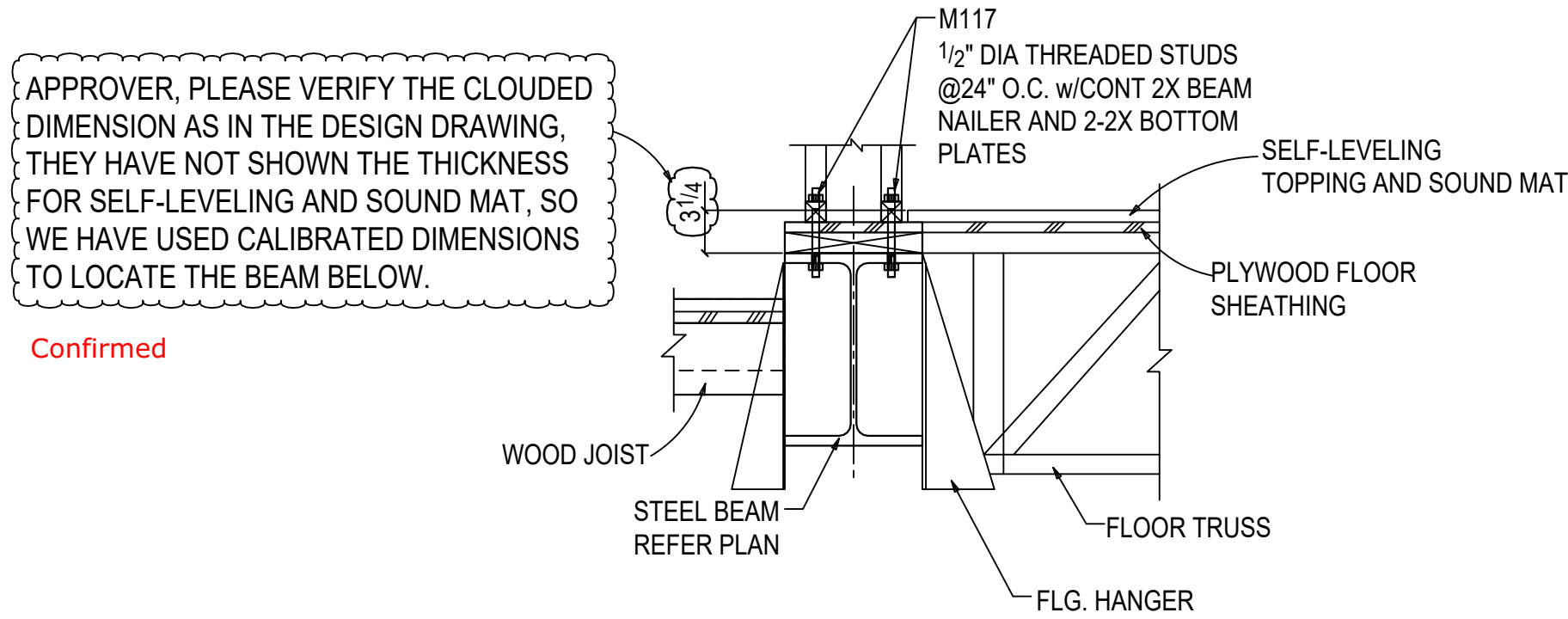
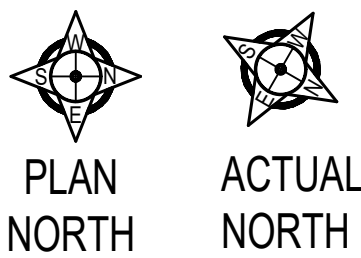
|                |                       |
|----------------|-----------------------|
| ISSUE #2       |                       |
| ISSUE #1       |                       |
| CALCS          |                       |
| APPROVAL (B)   |                       |
| REF:S1.10,S3.2 | APPROVAL (A) 05-17-24 |

|                                                 |                                                                                  |
|-------------------------------------------------|----------------------------------------------------------------------------------|
| CONTRACTOR:<br><b>STRAUB<br/>CONSTRUCTION</b>   | <b>KC FAB</b><br>13720 Botts Rd,<br>Grandview, MO 64030.                         |
| BOLTS:<br><b>3/4 DIA A325N<br/>BOLTS U.N.O.</b> | PROJECT: <b>JOHN KNOX VILLAGE BUILDING E</b><br>LEE'S SUMMIT, MO                 |
| WELD:<br><b>E70XX</b>                           | TITLE: <b>ROOF FRAMING PLAN</b>                                                  |
| CHECKED: <b>RS</b>                              | DETAILER: <b>VBB</b> JOB NUMBER: <b>----</b> SHEET: <b>E4</b><br>ISSUE: <b>A</b> |

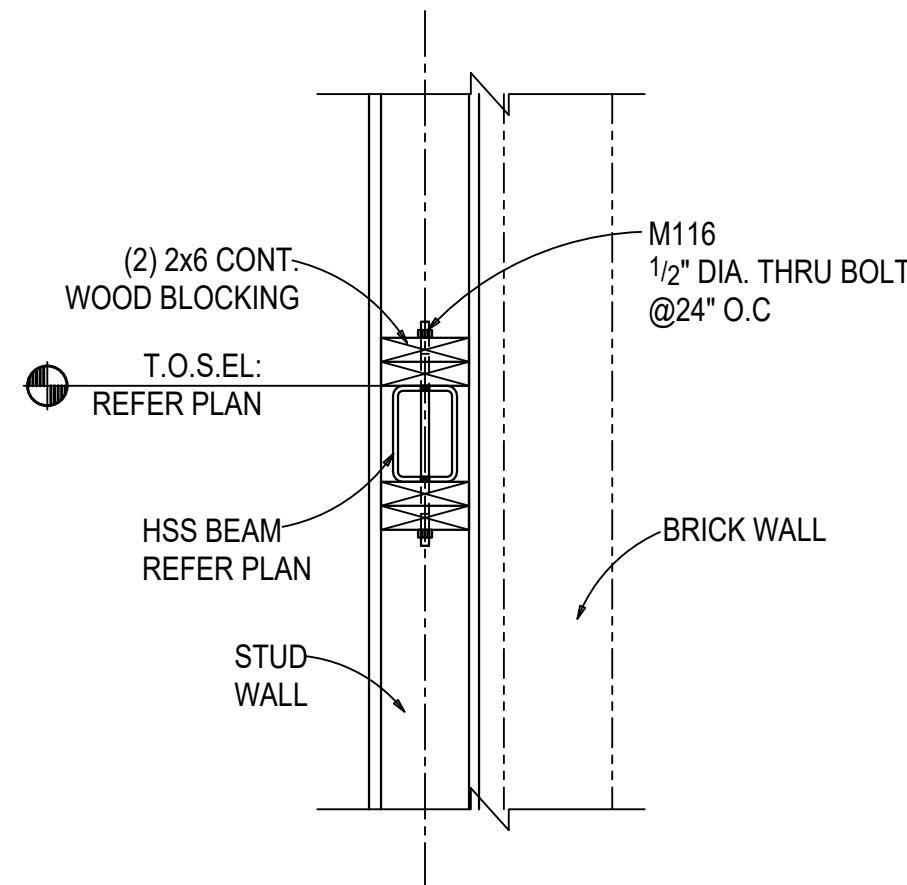
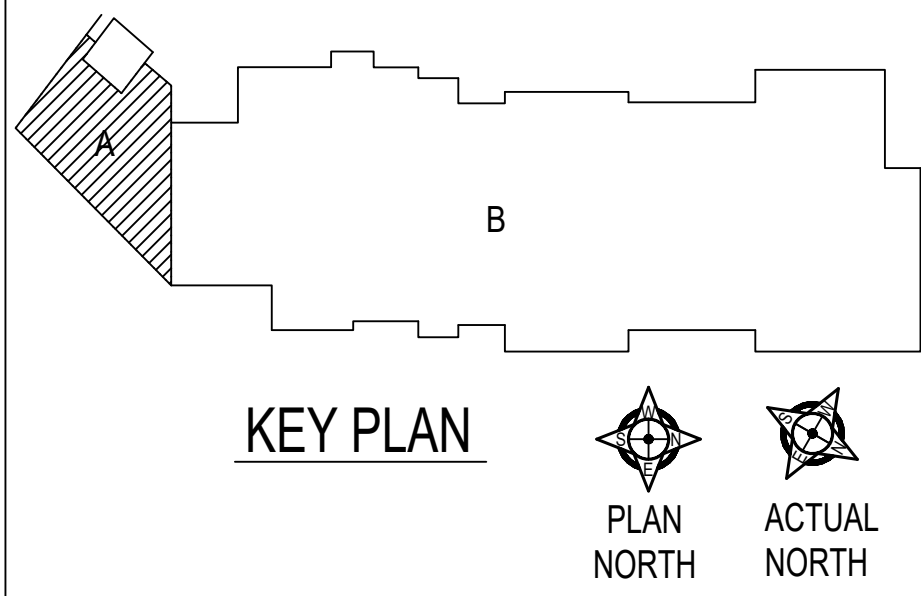




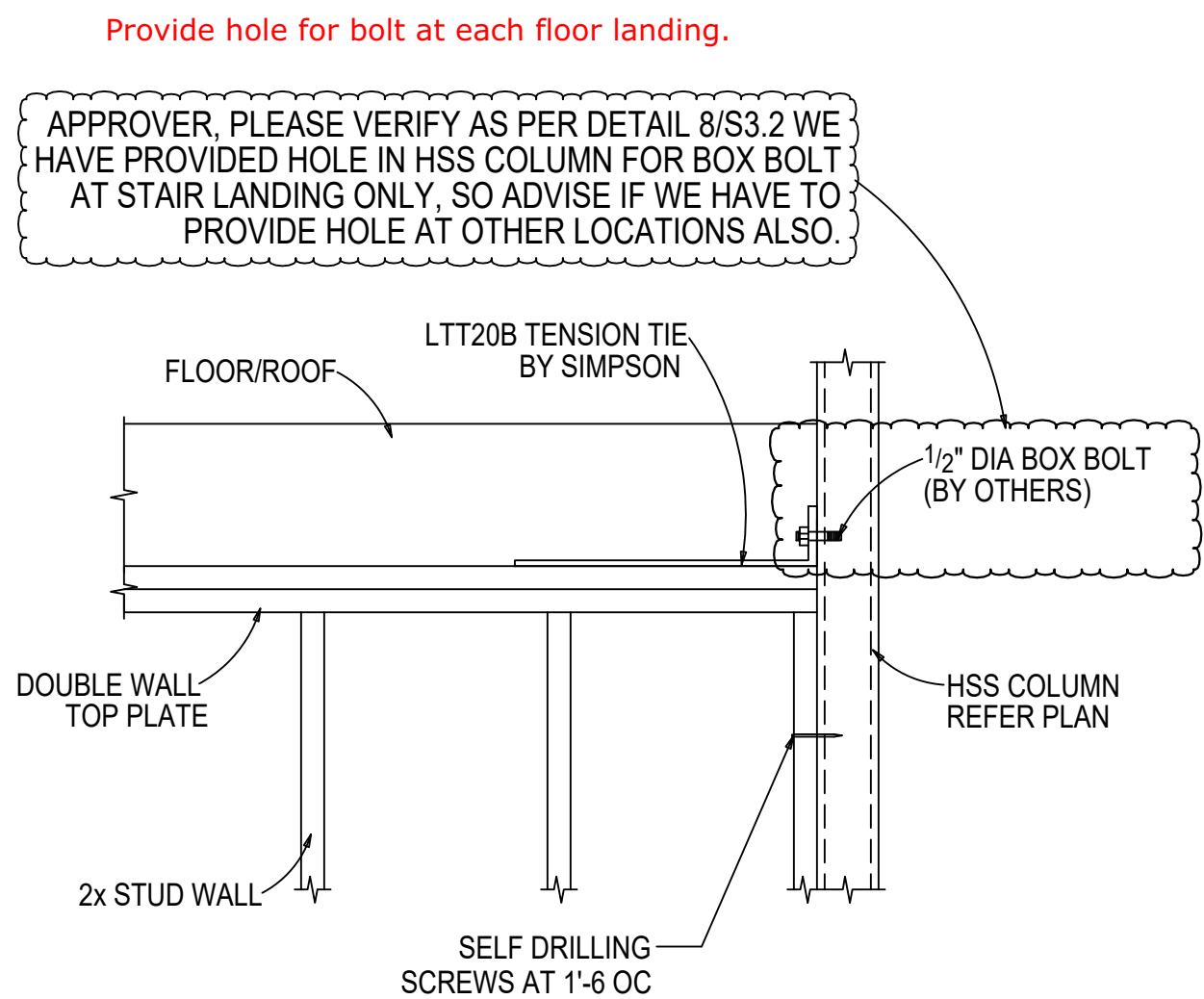
CLERESTORY ROOF FRAMING PLAN  
J.B.EL: 50-4 (U.N.O.)



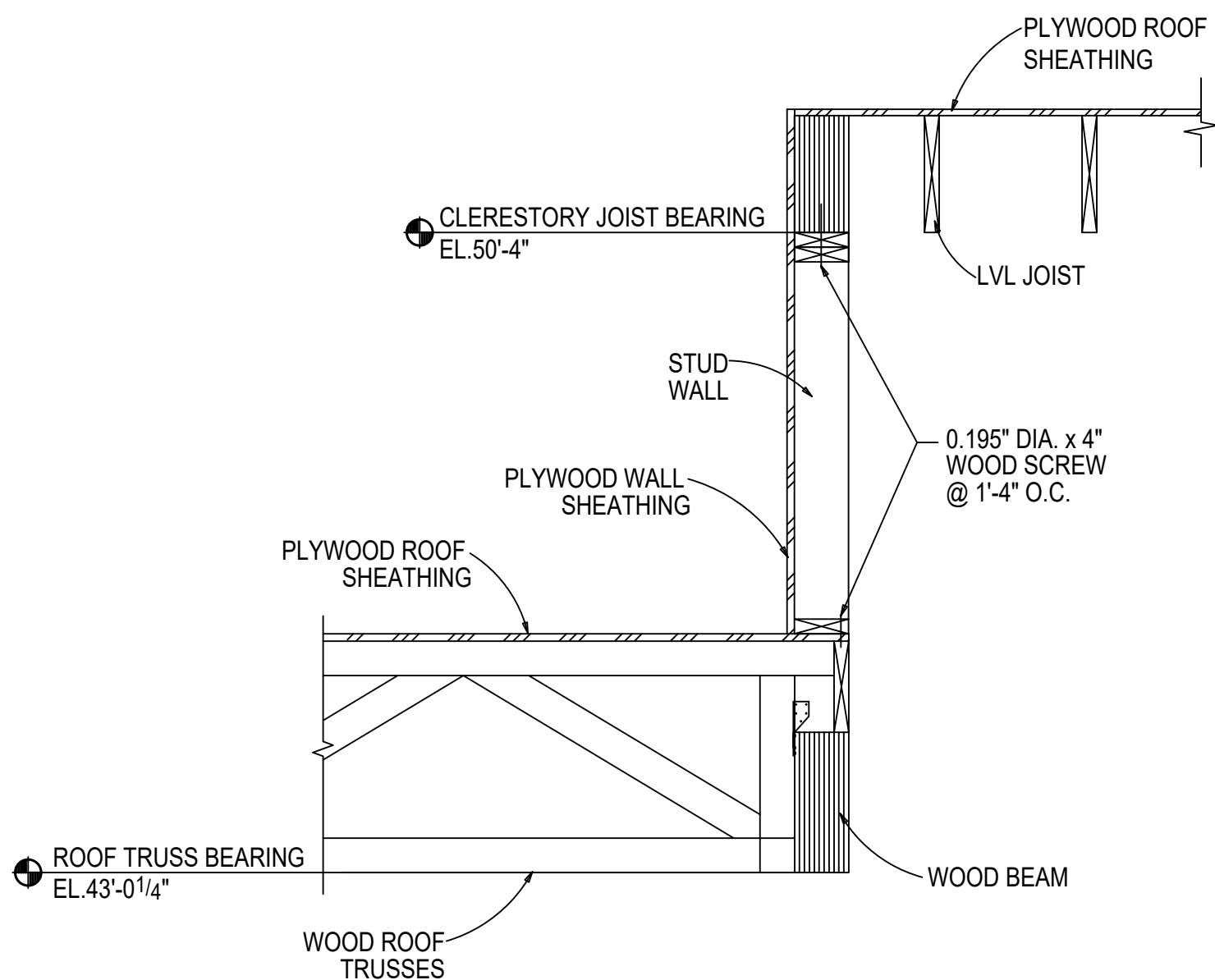
SECTION G1-G1  
(REF.13/S3.4)



SECTION Y-Y  
(REF.9/S3.2)



SECTION Z-Z  
(REF.8/S3.2)



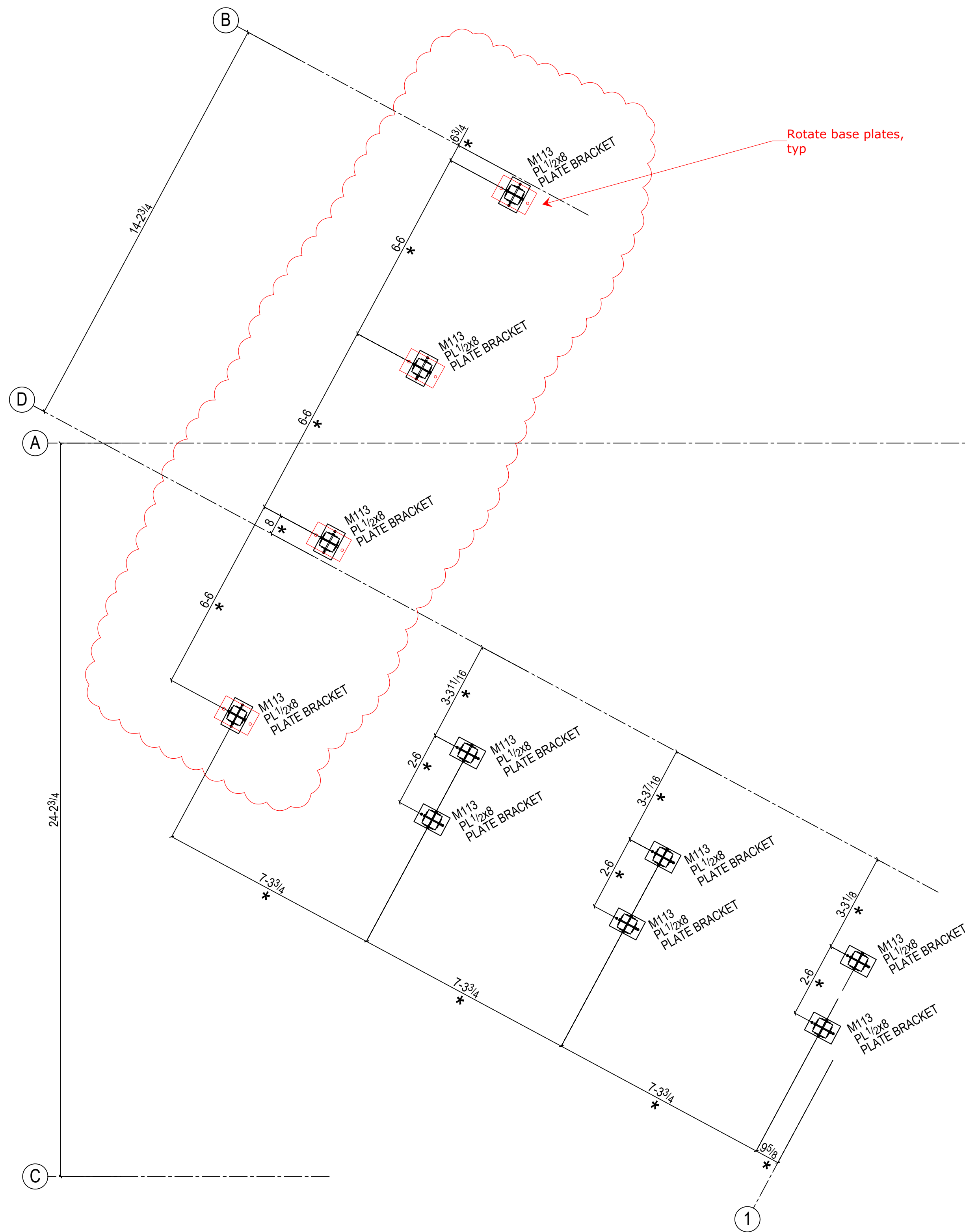
SECTION A1-A1  
(REF.6/S3.4)

NOTES:  
1.REFER DESIGN DRAWING SHEET S1.10,S3.2,S3.4  
2.J.B.EL. INDICATES JOIST BEARING ELEVATION

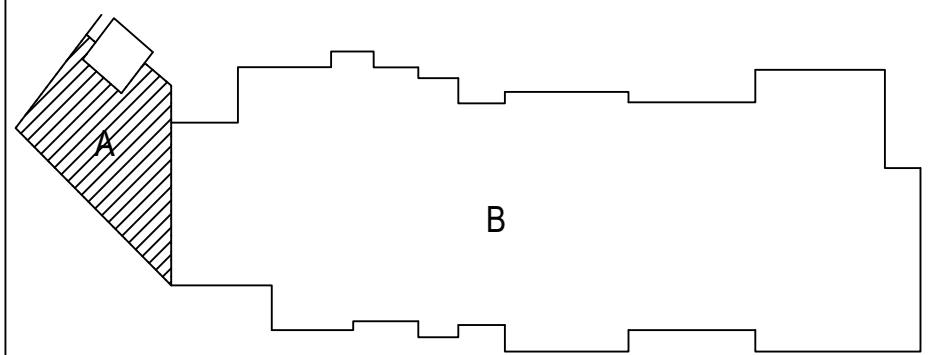
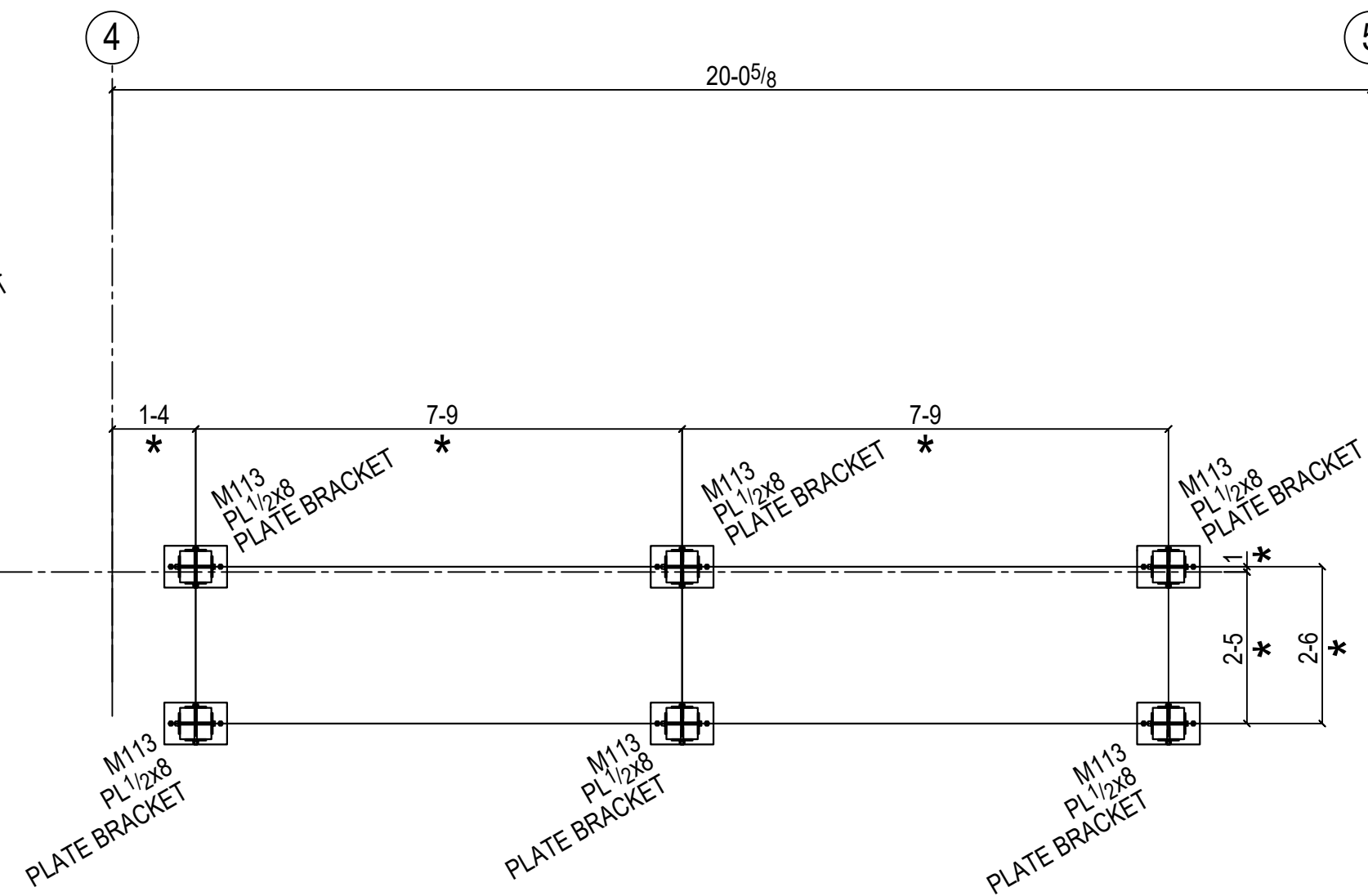
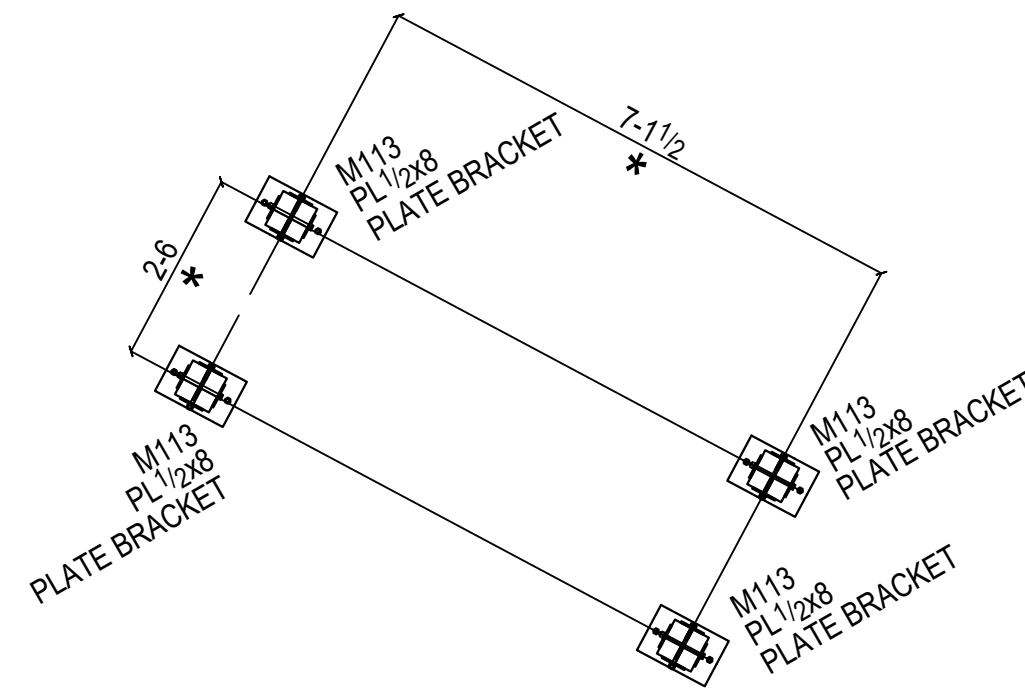
FOR APPROVAL ONLY  
NOT FOR CONSTRUCTION

|                                         |                                                           |                       |
|-----------------------------------------|-----------------------------------------------------------|-----------------------|
| ISSUE #2                                |                                                           |                       |
| ISSUE #1                                |                                                           |                       |
| CALCS                                   |                                                           |                       |
| APPROVAL (B)                            |                                                           |                       |
| REF: S1.10,S3.2,S3.4.                   | APPROVAL (A)                                              | 05-17-24              |
| CONTRACTOR:<br>STRAUB<br>CONSTRUCTION   | <b>KC FAB</b><br>13720 Botts Rd,<br>Grandview, MO 64030.  |                       |
| BOLTS:<br>3/4 DIA A325N<br>BOLTS U.N.O. | PROJECT: JOHN KNOX VILLAGE BUILDING E<br>LEE'S SUMMIT, MO |                       |
|                                         | TITLE: CLERESTORY ROOF FRAMING PLAN                       |                       |
| WELD:<br>E70XX                          | DETAILER: VBB                                             | JOB NUMBER: SHEET: E5 |
|                                         | CHECKED: RS                                               | ISSUE: A              |





SCREEN WALL FRAMING PLAN (PART-1)



KEY PLAN



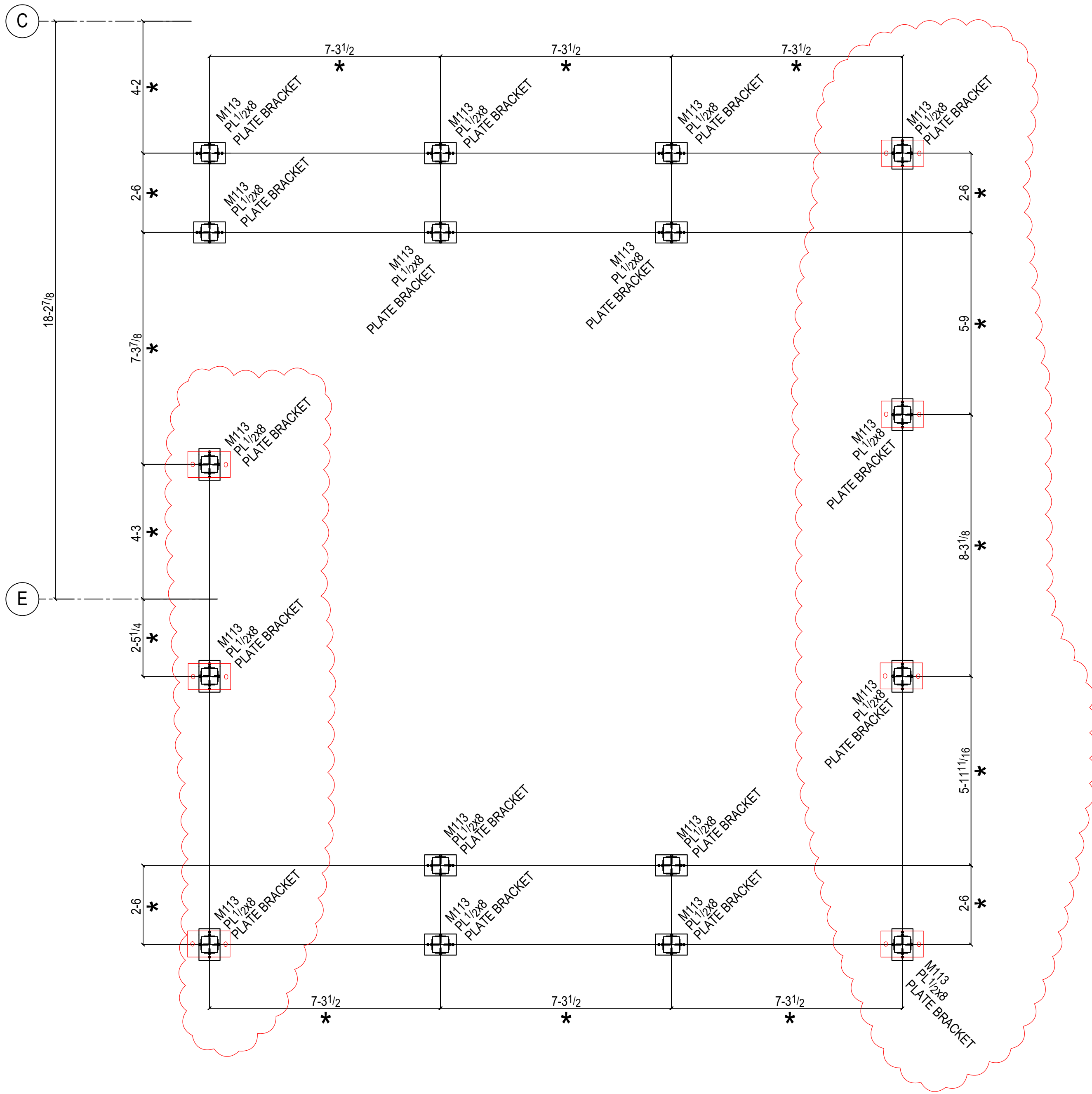
- NOTES:
1. REFER DESIGN DRAWING SHEET S1.10, S1.5
  2. FOR SECTION REF. SHEET E15.
  3. ★ INDICATES FIELD TO LOCATE BRACKET PER SCREEN WALL LOCATIONS.

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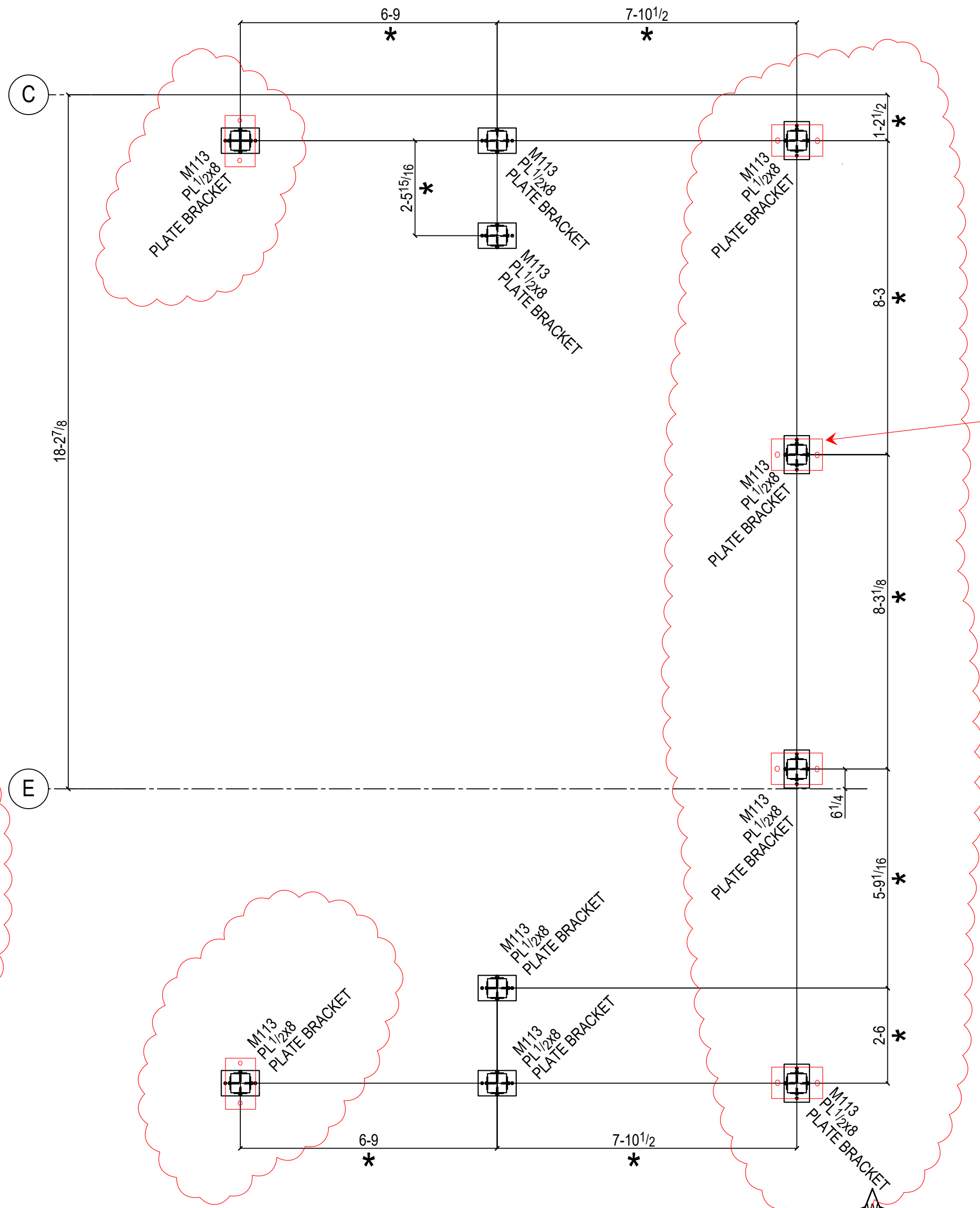
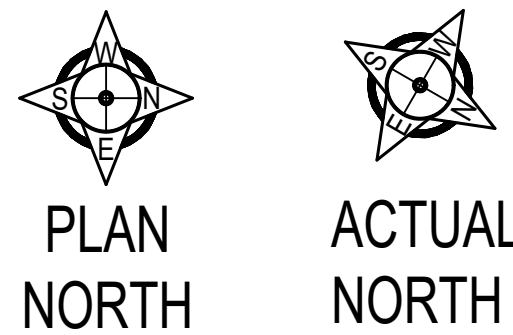
|                  |                       |
|------------------|-----------------------|
| ISSUE #2         |                       |
| ISSUE #1         |                       |
| CALCS            |                       |
| APPROVAL (B)     |                       |
| REF: S1.10, S1.5 | APPROVAL (A) 05-17-24 |

|                                                 |                                                                  |
|-------------------------------------------------|------------------------------------------------------------------|
| CONTRACTOR:<br><b>STRAUB<br/>CONSTRUCTION</b>   | <b>KC FAB</b><br>13720 Botts Rd,<br>Grandview, MO 64030.         |
| BOLTS:<br><b>3/4 DIA A325N<br/>BOLTS U.N.O.</b> | PROJECT: <b>JOHN KNOX VILLAGE BUILDING E</b><br>LEE'S SUMMIT, MO |
| WELD:<br><b>E70XX</b>                           | TITLE: <b>SCREEN WALL FRAMING PLAN (PART-1)</b>                  |
| DETAILER: <b>VBB</b>                            | JOB NUMBER: <b>----</b>                                          |
| CHECKED: <b>RS</b>                              | SHEET: <b>E6</b><br>ISSUE: <b>A</b>                              |

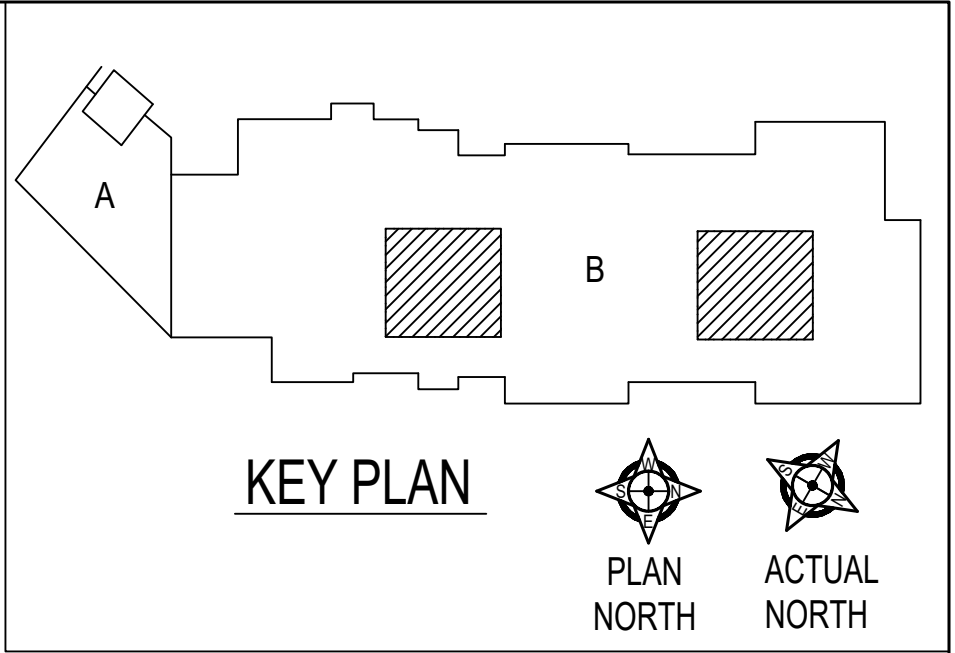
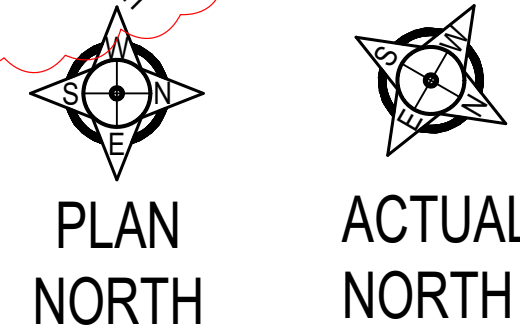




SCREEN WALL FRAMING PLAN (PART-2)



SCREEN WALL FRAMING PLAN (PART-3)

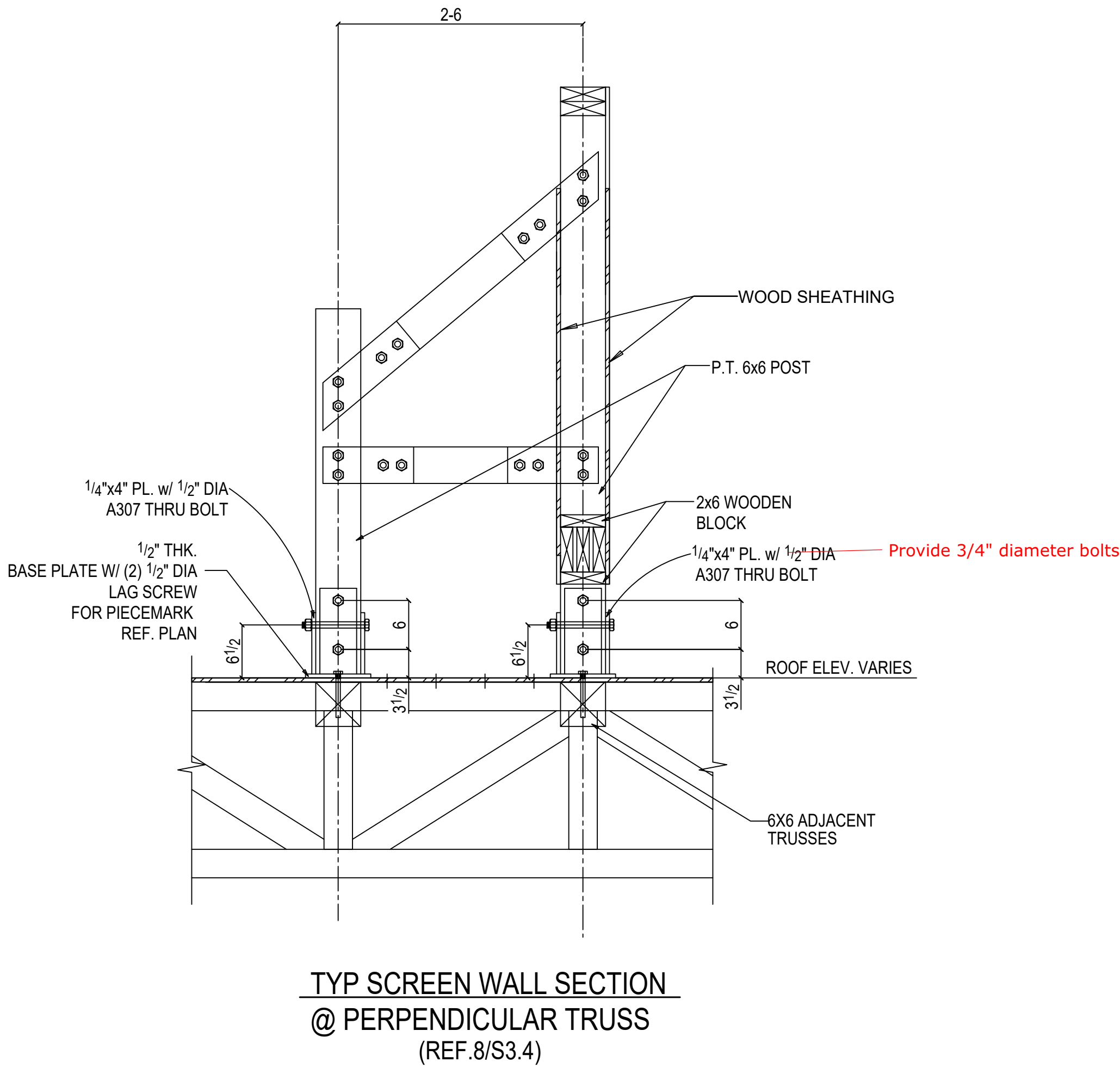
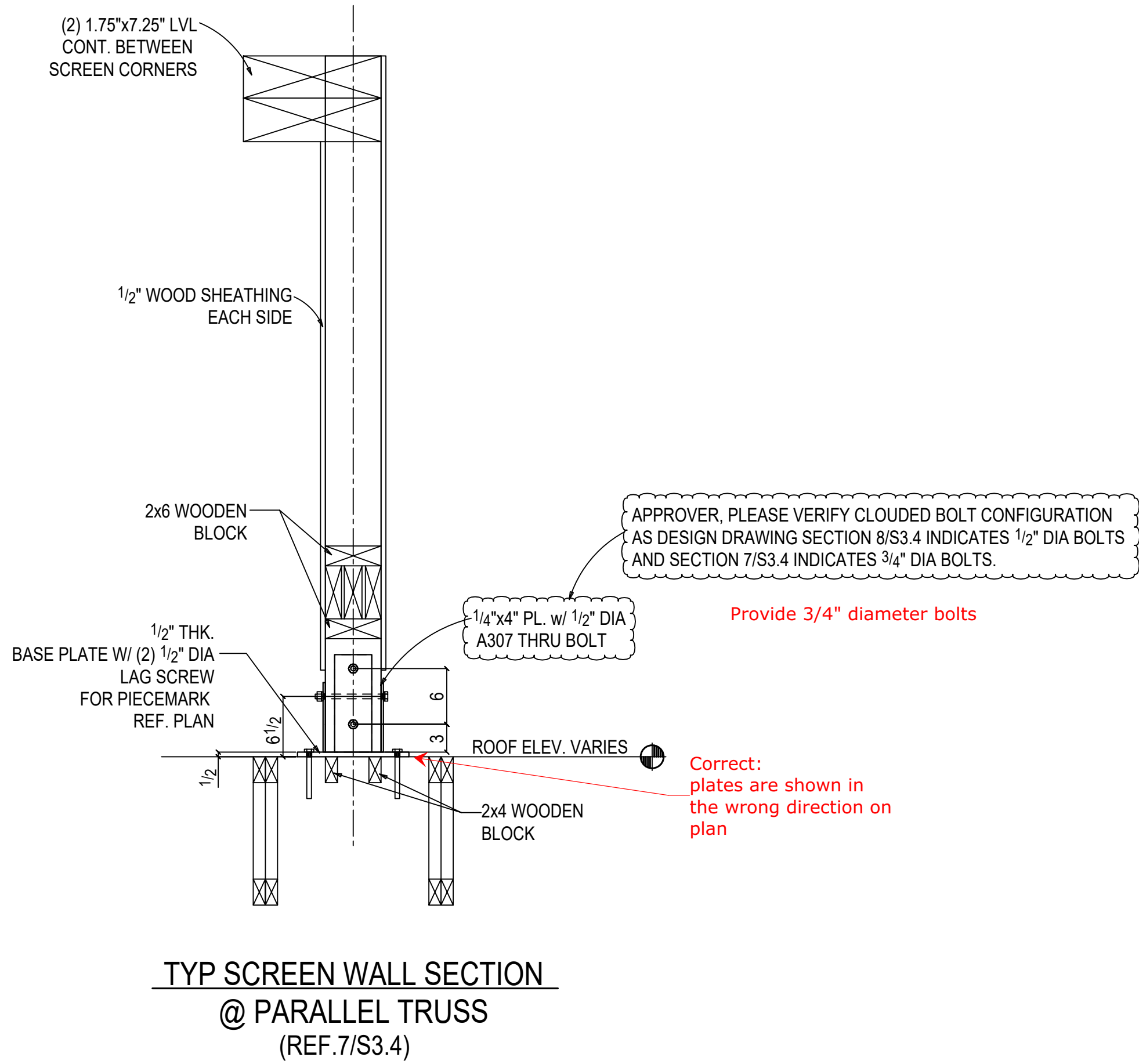


- NOTES:
- 1.REFER DESIGN DRAWING SHEET S1.10, S1.5
  - 2.FOR SECTION REF. SHEET E15.
  - 3.\* INDICATES FIELD TO LOCATE BRACKET PER SCREEN WALL LOCATIONS.

FOR APPROVAL ONLY  
NOT FOR CONSTRUCTION

|                                                 |                                                                  |                                            |                                                                |
|-------------------------------------------------|------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|
| CONTRACTOR:<br><b>STRAUB<br/>CONSTRUCTION</b>   | ISSUE #2                                                         |                                            |                                                                |
|                                                 | ISSUE #1                                                         |                                            |                                                                |
|                                                 | CALCS                                                            |                                            |                                                                |
|                                                 | APPROVAL (B)                                                     |                                            |                                                                |
| REF: <b>S1.10, S1.5</b>                         |                                                                  | APPROVAL (A)                               | 05-17-24                                                       |
| BOLTS:<br><b>3/4 DIA A325N<br/>BOLTS U.N.O.</b> | PROJECT: <b>JOHN KNOX VILLAGE BUILDING E</b><br>LEE'S SUMMIT, MO |                                            |                                                                |
|                                                 | TITLE: <b>SCREEN WALL FRAMING PLAN (PART-2 &amp; 3)</b>          |                                            |                                                                |
|                                                 | WELD:<br><b>E70XX</b>                                            | DETAILER: <b>VBB</b><br>CHECKED: <b>RS</b> | JOB NUMBER: <b>----</b><br>SHEET: <b>E7</b><br>ISSUE: <b>A</b> |





NOTES:  
1.REFER DESIGN DRAWING SHEET S3.4  
2.REFER THIS SHEET IN CONJUCTION EITH E13 & E14.

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|                                         |                                                                       |                  |           |
|-----------------------------------------|-----------------------------------------------------------------------|------------------|-----------|
|                                         |                                                                       | ISSUE #2         |           |
|                                         |                                                                       | ISSUE #1         |           |
|                                         |                                                                       | CALCS            |           |
|                                         |                                                                       | APPROVAL (B)     |           |
| REF: S3.4                               | APPROVAL (A)                                                          | 05-17-24         |           |
| CONTRACTOR:<br>STRAUB<br>CONSTRUCTION   | <div>KC FAB</div> <div>13720 Botts Rd,<br/>Grandview, MO 64030.</div> |                  |           |
| BOLTS:<br>3/4 DIA A325N<br>BOLTS U.N.O. | PROJECT: JOHN KNOX VILLAGE BUILDING E<br>LEE'S SUMMIT, MO             |                  |           |
|                                         | TITLE: SCREEN WALL FRAMING PLAN                                       |                  |           |
| WELD:<br>E70XX                          | DETAILER: VBB                                                         | JOB NUMBER: ---- | SHEET: E8 |
|                                         | CHECKED: RS                                                           |                  | ISSUE: A  |









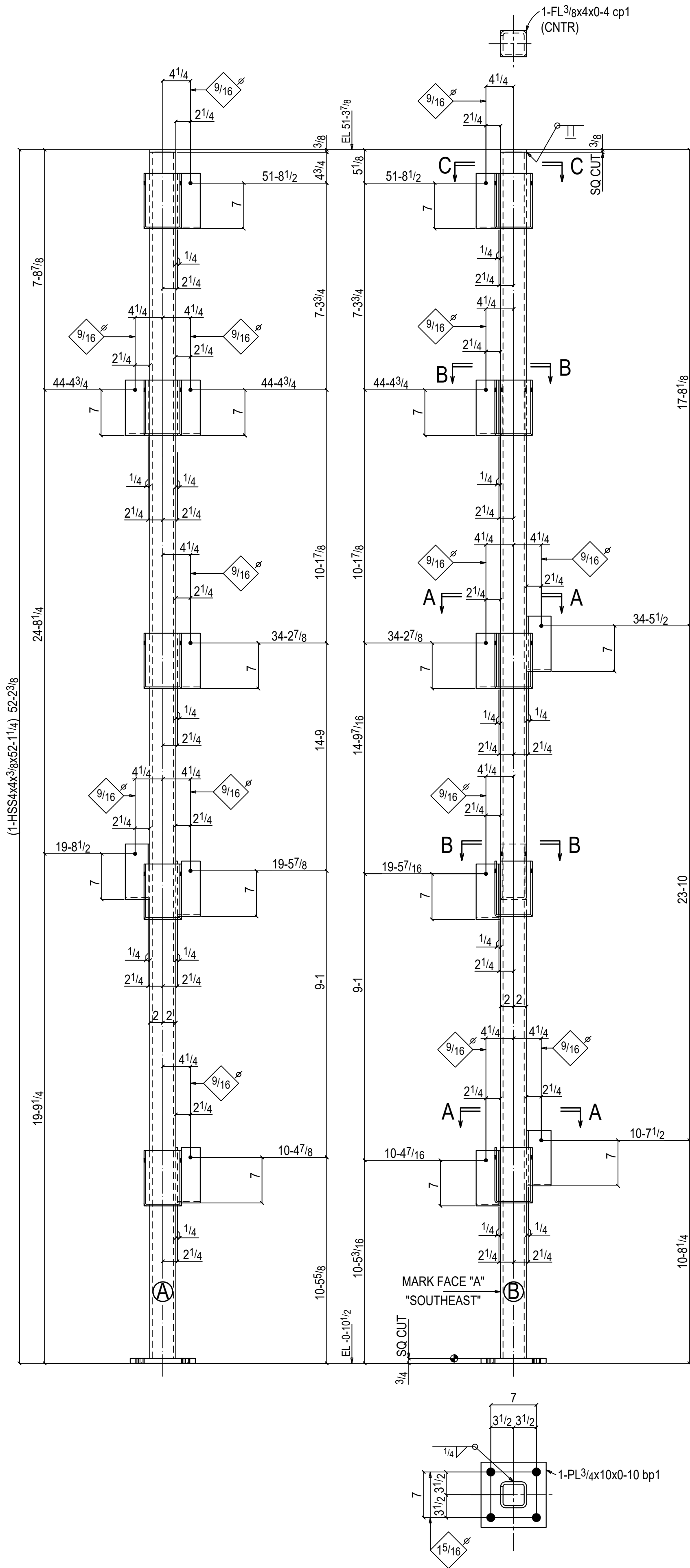






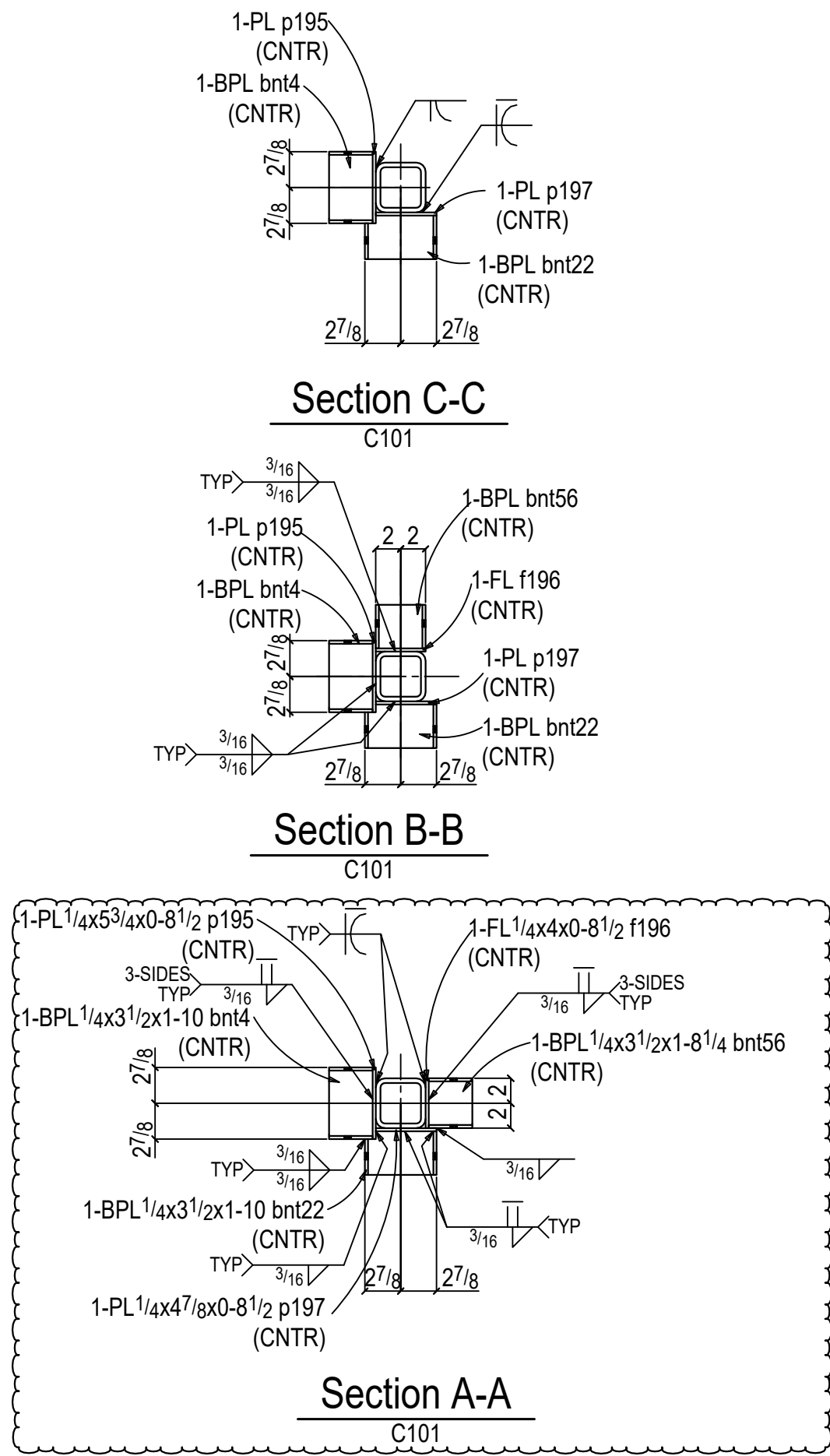






ONE COLUMN C101

AT GRID:  
B & 1  
FIELD BOLTS:  
10-1/2Diax7 A307  
4-1/2Diax5 A307



Verified

FOR APPROVAL ONLY  
NOT FOR FABRICATION

BILL OF MATERIAL

| QTY   | PC    | DESCRIPTION  | LENGTH | STEEL     | WEIGHT |
|-------|-------|--------------|--------|-----------|--------|
| TOTAL | MARK  | FT.          | IN     | GRADE     | TOTAL  |
| ONE   | C101  | COLUMN       |        |           | 1036   |
| 1     | C101  | HSS4x4x3/8   | 52     | A500C     | 900    |
| 1     | bp1   | PL3/4x10     | 0      | A36       | 20     |
| 1     | cp1   | FL3/8x4      | 0      | A36       | 2      |
| 5     | p197  | PL1/4x4 7/8  | 0      | A36       | 15     |
| 5     | p195  | PL1/4x5 3/4  | 0      | A36       | 17     |
| 4     | f196  | FL1/4x4      | 0      | A36       | 10     |
| 4     | bnt56 | BPL1/4x3 1/2 | 1      | A36       | 20     |
| 5     | bnt4  | BPL1/4x3 1/2 | 1      | A36       | 27     |
| 5     | bnt22 | BPL1/4x3 1/2 | 1      | A36       | 25     |
|       |       | FIELD BOLTS  |        |           |        |
| 10    |       | 1/2 Dia A307 | 0      | +1HD WASH |        |
| 4     |       | 1/2 Dia A307 | 0      | +1HD WASH |        |

|              |  |
|--------------|--|
| ISSUE #2     |  |
| ISSUE #1     |  |
| CALCS        |  |
| APPROVAL (B) |  |

REF: E1,E2,E3,E4,E5 APPROVAL (A) 05-17-24

MATERIAL:  
MISC. ASTM A36  
WF: ASTM A992, GR50  
TUBE: ASTM A500, GRC  
PIPE: ASTM A53, GRB



KC FAB  
13720 Botts Rd,  
Grandview, MO 64030.

FINISH: SSPC SP-2  
SHERWIN WILLIAMS  
GRAY STD PRIMER

PROJECT: JOHN KNOX VILLAGE BUILDING E  
LEE'S SUMMIT, MO

HOLES: 13/16 DIA U.N.O.

TITLE: COLUMN

BOLTS: 3/4 DIA A325N U.N.O.

DETAILER: KSD

JOB NUMBER: SHEET: C101

WELD: E70XX

CHECKED: ABD

ISSUE: A





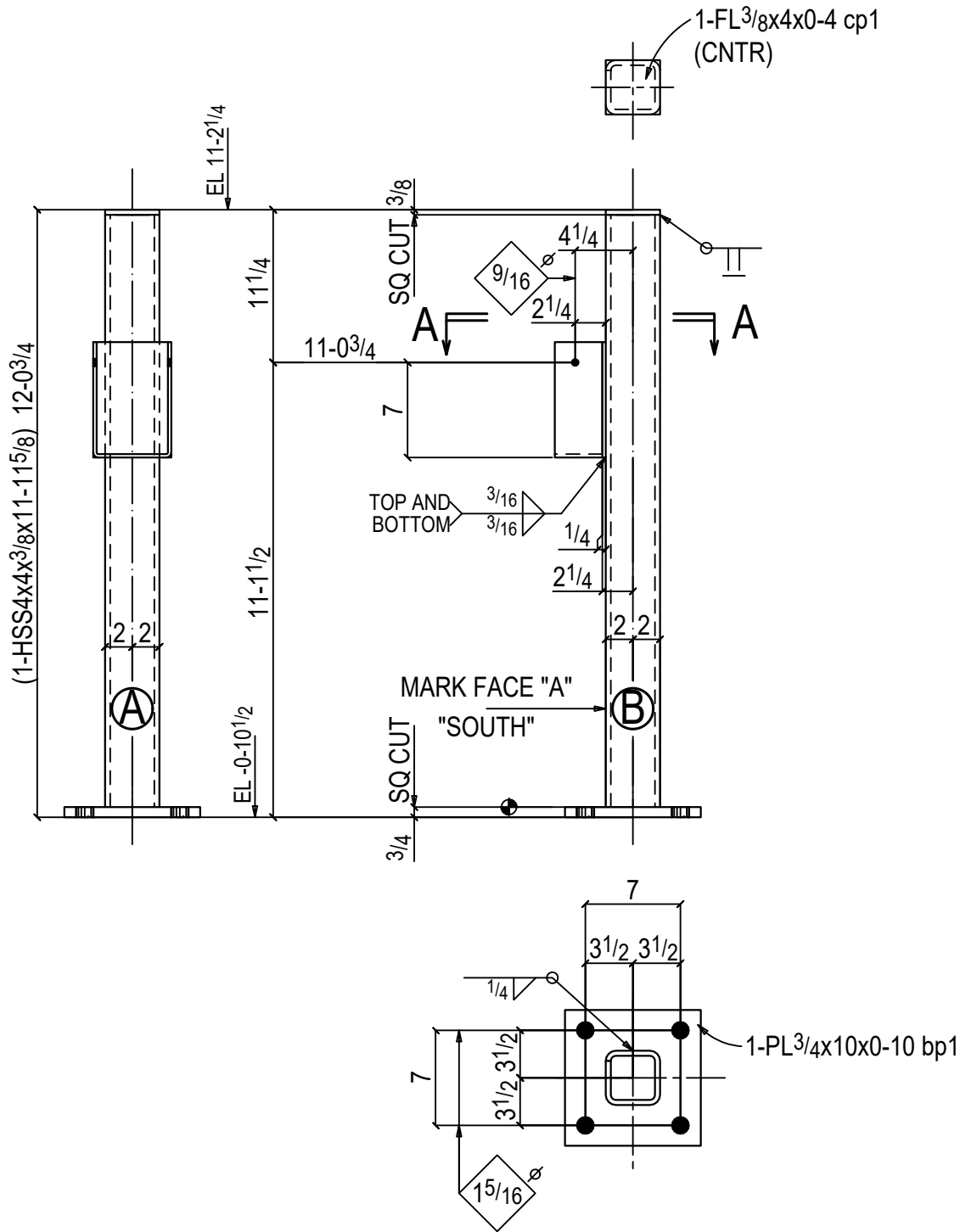






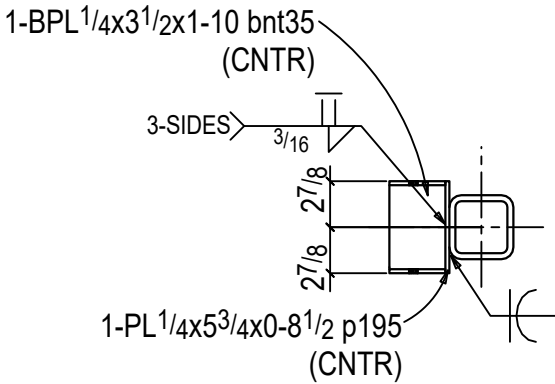






ONE COLUMN C105

FIELD BOLTS:  
1-1/2Diax7 A307



Section A-A  
C105

BILL OF MATERIAL

| QTY   | PC    |               | LENGTH |        |           | STEEL | WEIGHT |
|-------|-------|---------------|--------|--------|-----------|-------|--------|
| TOTAL | MARK  | DESCRIPTION   | FT.    | IN     | REMARKS   | GRADE | TOTAL  |
| ONE   | C105  | COLUMN        |        |        |           |       | 237    |
| 1     | C105  | HSS4x4x3/8    | 11     | 11 5/8 | S2E       | A500C | 207    |
| 1     | bp1   | PL 3/4x10     | 0      | 10     |           | A36   | 20     |
| 1     | cp1   | FL 3/8x4      | 0      | 4      |           | A36   | 2      |
| 1     | p195  | PL 1/4x5 3/4  | 0      | 8 1/2  |           | A36   | 3      |
| 1     | bnt35 | BPL 1/4x3 1/2 | 1      | 10     | BENT      | A36   | 5      |
|       |       | FIELD BOLTS   |        |        |           |       |        |
| 1     |       | 1/2 Dia A307  | 0      | 7      | +1HD WASH |       |        |
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FOR APPROVAL ONLY  
NOT FOR FABRICATION

REF: E1

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| ISSUE #2     |          |
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| CALCS        |          |
| APPROVAL (B) |          |
| APPROVAL (A) | 05-17-24 |

MATERIAL:  
MISC. ASTM A36  
WF: ASTM A992, GR50  
TUBE: ASTM A500, GRC  
PIPE: ASTM A53, GRB



**KC FAB**  
13720 Botts Rd,  
Grandview, MO 64030.

FINISH: SSPC SP-2  
SHERWIN WILLIAMS  
GRAY STD PRIMER

PROJECT: JOHN KNOX VILLAGE BUILDING E  
LEE'S SUMMIT, MO

HOLES: 13/16 DIA U.N.O.

TITLE: COLUMN

BOLTS: 3/4 DIA A325N U.N.O.

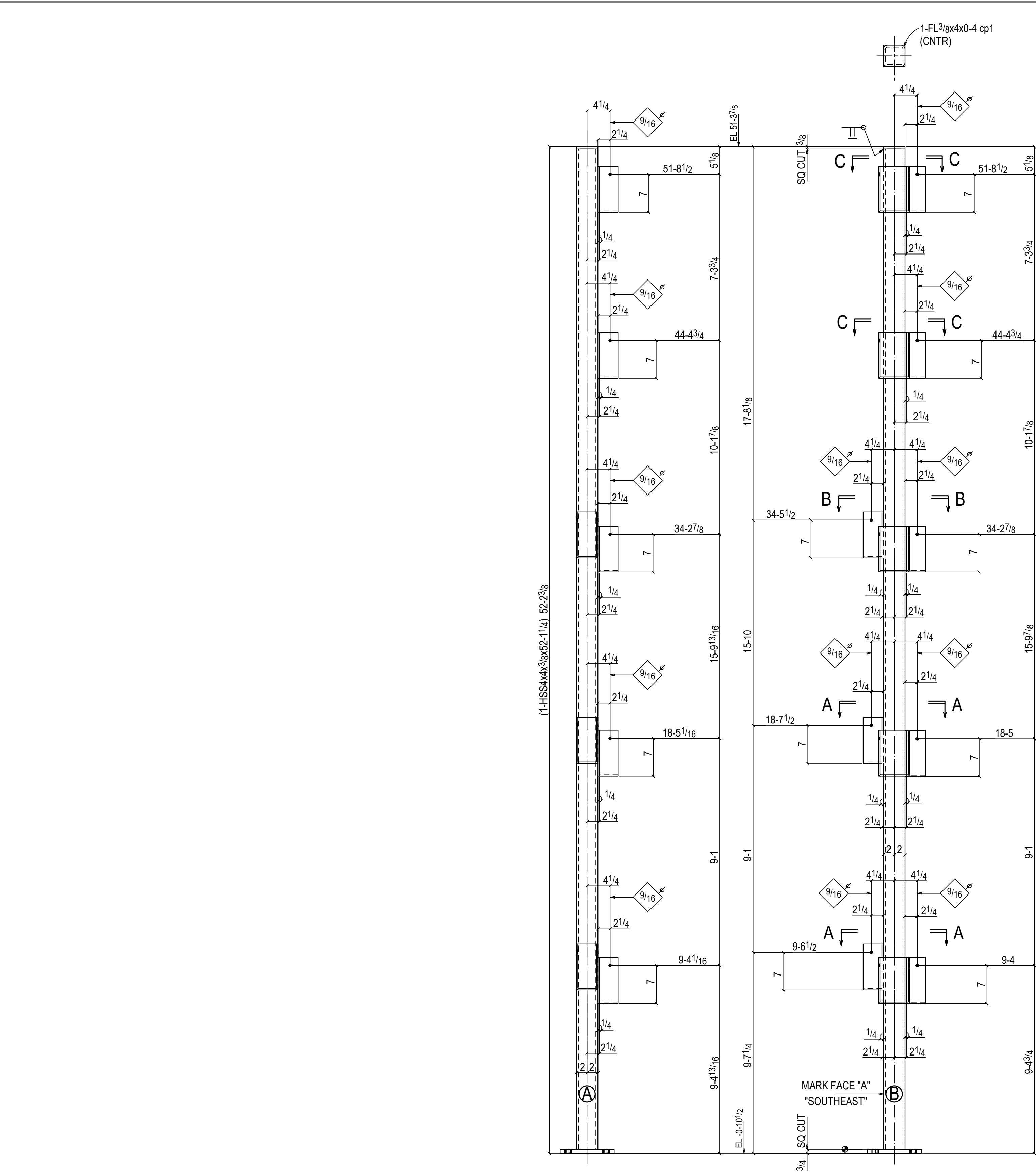
DETAILER: KSD

JOB NUMBER: SHEET: C105

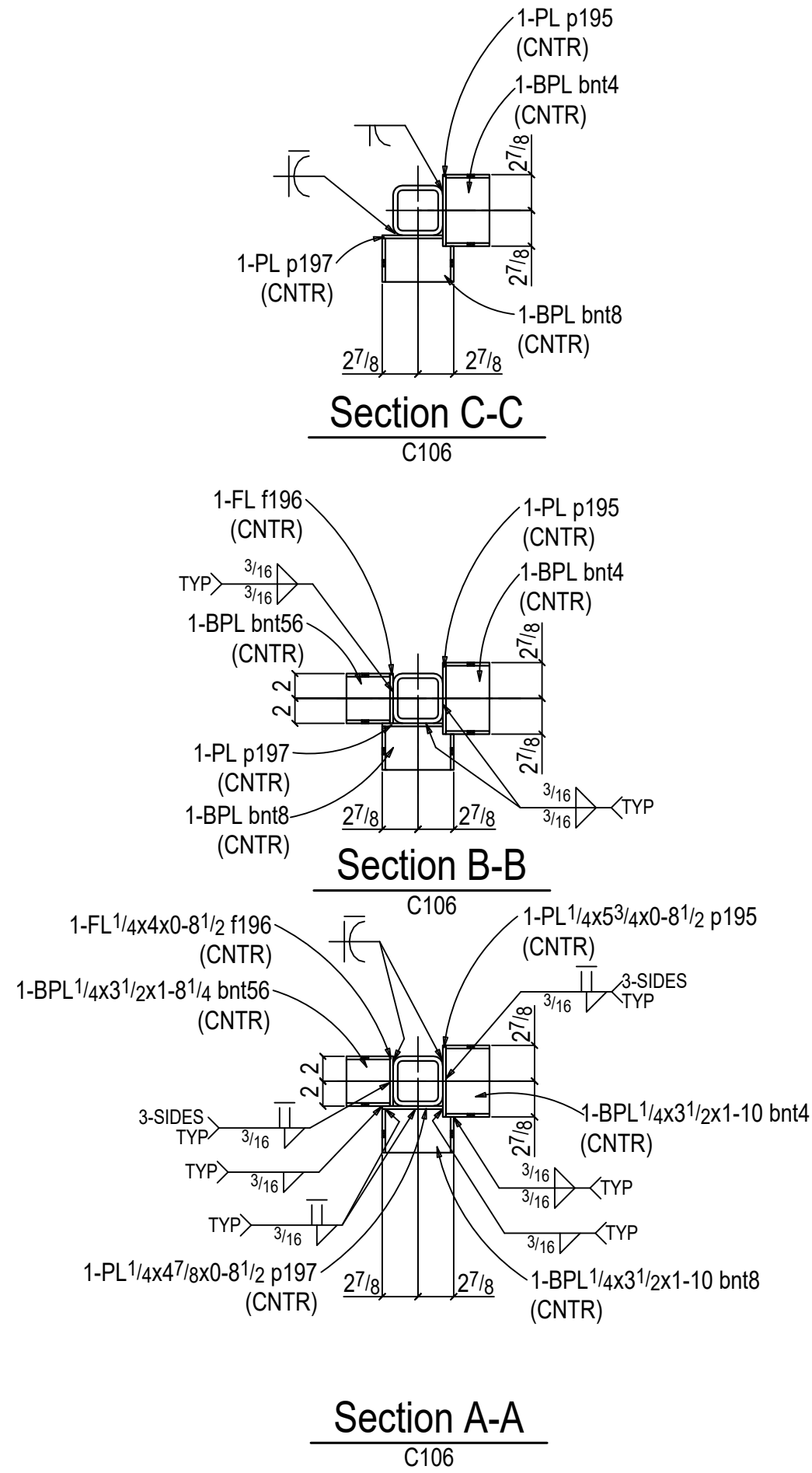
WELD: E70XX

CHECKED: ABD

ISSUE: A



AT GRID:  
D & 1  
FIELD BOLTS:  
10-1/2Diax7 A307  
3-1/2Diax5 A307



FOR APPROVAL ONLY  
NOT FOR FABRICATION

### BILL OF MATERIAL

| QTY   | PC    | DESCRIPTION  | LENGTH |       | STEEL     | WEIGHT |     |
|-------|-------|--------------|--------|-------|-----------|--------|-----|
| TOTAL | MARK  |              | FT.    | IN    | GRADE     | TOTAL  |     |
| ONE   | C106  | COLUMN       |        |       |           | 1028   |     |
| 1     | C106  | HSS4x4x3/8   | 52     | 1 1/4 | S2E       | A500C  | 900 |
| 1     | bp1   | PL3/4x10     | 0      | 10    |           | A36    | 20  |
| 1     | cp1   | FL3/8x4      | 0      | 4     |           | A36    | 2   |
| 5     | p197  | PL1/4x47/8   | 0      | 8 1/2 |           | A36    | 15  |
| 5     | p195  | PL1/4x53/4   | 0      | 8 1/2 |           | A36    | 17  |
| 3     | f196  | FL1/4x4      | 0      | 8 1/2 |           | A36    | 7   |
| 3     | bnt56 | BPL1/4x3 1/2 | 1      | 8 1/4 | BENT      | A36    | 15  |
| 5     | bnt4  | BPL1/4x3 1/2 | 1      | 10    | BENT      | A36    | 27  |
| 5     | bnt8  | BPL1/4x3 1/2 | 1      | 10    | BENT      | A36    | 25  |
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|       |       | FIELD BOLTS  |        |       |           |        |     |
| 10    |       | 1/2 Dia A307 | 0      | 7     | +1HD WASH |        |     |
| 3     |       | 1/2 Dia A307 | 0      | 5     | +1HD WASH |        |     |
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MATERIAL:  
MISC. ASTM A36  
WF: ASTM A992, GR50  
TUBE: ASTM A500, GRC  
PIPE: ASTM A53, GRB

FINISH: SSPC SP-2  
SHERWIN WILLIAMS  
GRAY STD PRIMER

HOLES: 13/16 DIA U.N.O.

BOLTS: 3/4 DIA A325N U.N.O.

WELD: E70XX



KC FAB  
13720 Botts Rd,  
Grandview, MO 64030.

PROJECT: JOHN KNOX VILLAGE BUILDING E  
LEE'S SUMMIT, MO

TITLE: COLUMN

DETAILER: KSD

CHECKED: ABD

JOB NUMBER: ----

SHEET: C106

ISSUE: A

ISSUE #2

ISSUE #1

CALCS

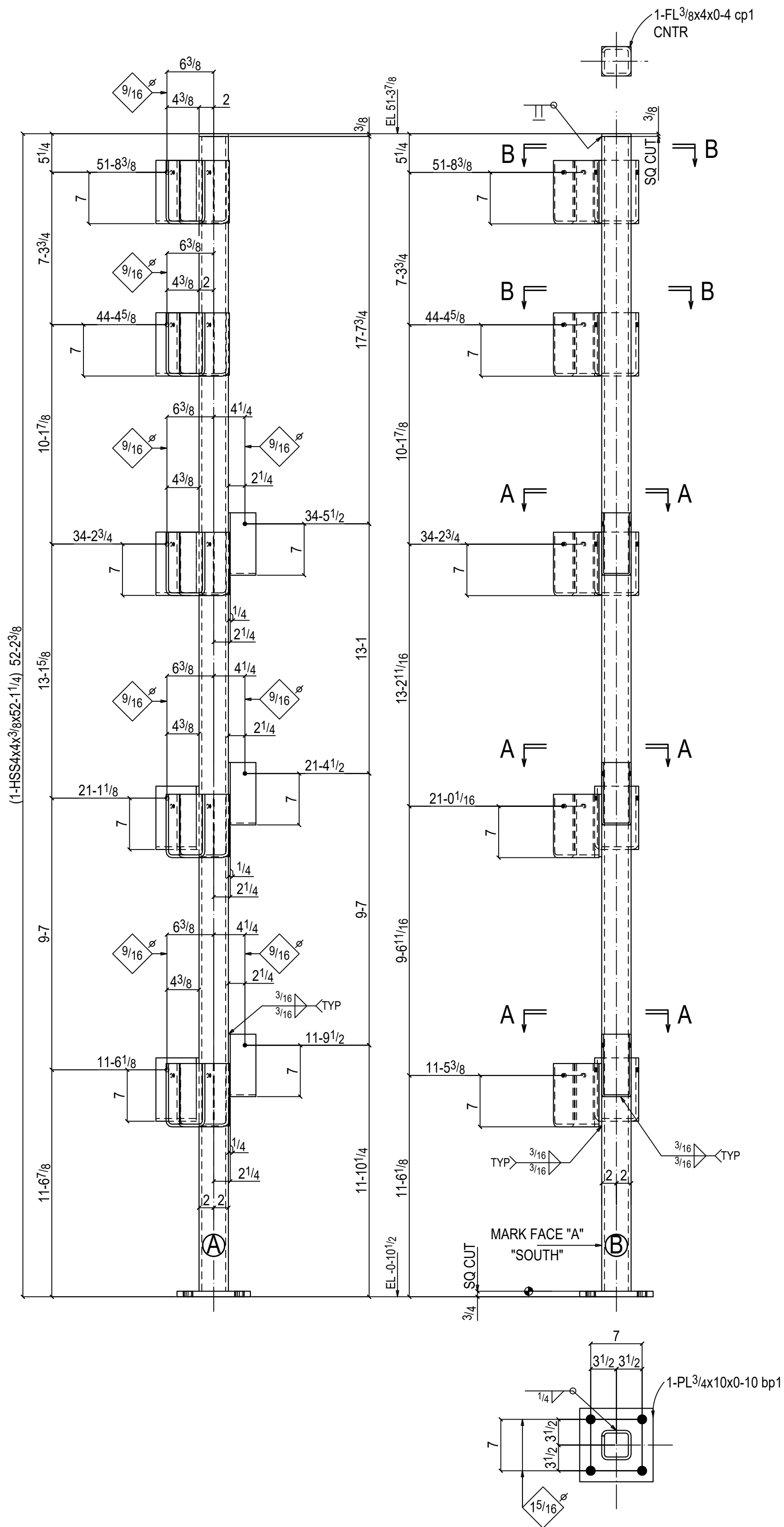
APPROVAL (B)

REF: E1, E2, E3,E4,E5

APPROVAL (A)

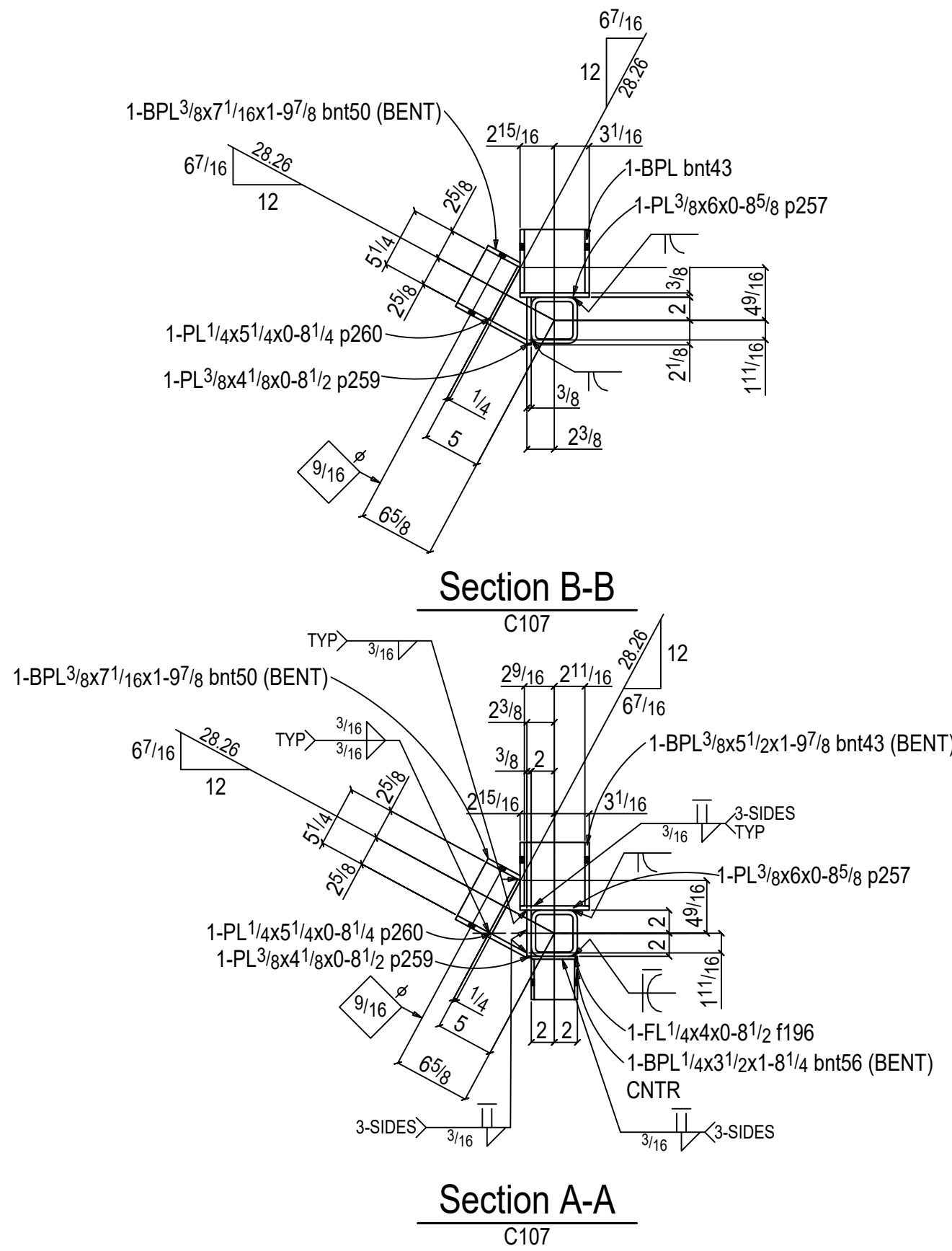
05-17-24





ONE COLUMN C107

AT GRID:  
D & 3  
FIELD BOLTS:  
10-1/2Diax7 A307  
3-1/2Diax5 A307



FOR APPROVAL ONLY  
NOT FOR FABRICATION

BILL OF MATERIAL

| QTY   | PC    |               | LENGTH |       | STEEL     | WEIGHT |       |
|-------|-------|---------------|--------|-------|-----------|--------|-------|
| TOTAL | MARK  | DESCRIPTION   | FT.    | IN    | REMARKS   | GRADE  | TOTAL |
| ONE   | C107  | COLUMN        |        |       |           |        | 1128  |
| 1     | C107  | HSS4x4x3/8    | 52     | 1 1/4 | S2E       | A500C  | 900   |
| 1     | bp1   | PL3/4x10      | 0      | 10    |           | A36    | 20    |
| 5     | bnt50 | BPL3/8x7 1/16 | 1      | 9 7/8 | BENT      | A36    | 59    |
| 5     | p257  | PL3/8x6       | 0      | 8 5/8 |           | A36    | 28    |
| 5     | bnt43 | BPL3/8x5 1/2  | 1      | 9 7/8 | BENT      | A36    | 64    |
| 5     | p259  | PL3/8x4 1/8   | 0      | 8 1/2 |           | A36    | 19    |
| 1     | cp1   | FL3/8x4       | 0      | 4     |           | A36    | 2     |
| 5     | p260  | PL1/4x5 1/4   | 0      | 8 1/4 |           | A36    | 15    |
| 3     | f196  | FL1/4x4       | 0      | 8 1/2 |           | A36    | 7     |
| 3     | bnt56 | BPL1/4x3 1/2  | 1      | 8 1/4 | BENT      | A36    | 15    |
|       |       |               |        |       |           |        |       |
|       |       | FIELD BOLTS   |        |       |           |        |       |
| 10    |       | 1/2 Dia A307  | 0      | 7     | +1HD WASH |        |       |
| 3     |       | 1/2 Dia A307  | 0      | 5     | +1HD WASH |        |       |
|       |       |               |        |       |           |        |       |
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| ISSUE #1     |  |
| CALCS        |  |
| APPROVAL (B) |  |

REF: E1, E2, E3, E4, E5 APPROVAL (A) 05-17-24

|                                                                                                   |                                                           |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| MATERIAL:<br>MISC. ASTM A36<br>WF: ASTM A992, GR50<br>TUBE: ASTM A500, GRC<br>PIPE: ASTM A53, GRB | KC FAB<br>13720 Botts Rd,<br>Grandview, MO 64030.         |
| FINISH: SSPC SP-2<br>SHERWIN WILLIAMS<br>GRAY STD PRIMER                                          | PROJECT: JOHN KNOX VILLAGE BUILDING E<br>LEE'S SUMMIT, MO |
| HOLES: 13/16 DIA U.N.O.                                                                           | TITLE: COLUMN                                             |
| BOLTS: 3/4 DIA A325N U.N.O.                                                                       | DETAILER: KSD                                             |
| WELD: E70XX                                                                                       | CHECKED: ABD                                              |
|                                                                                                   | JOB NUMBER: ----                                          |
|                                                                                                   | SHEET: C107                                               |
|                                                                                                   | ISSUE: A                                                  |



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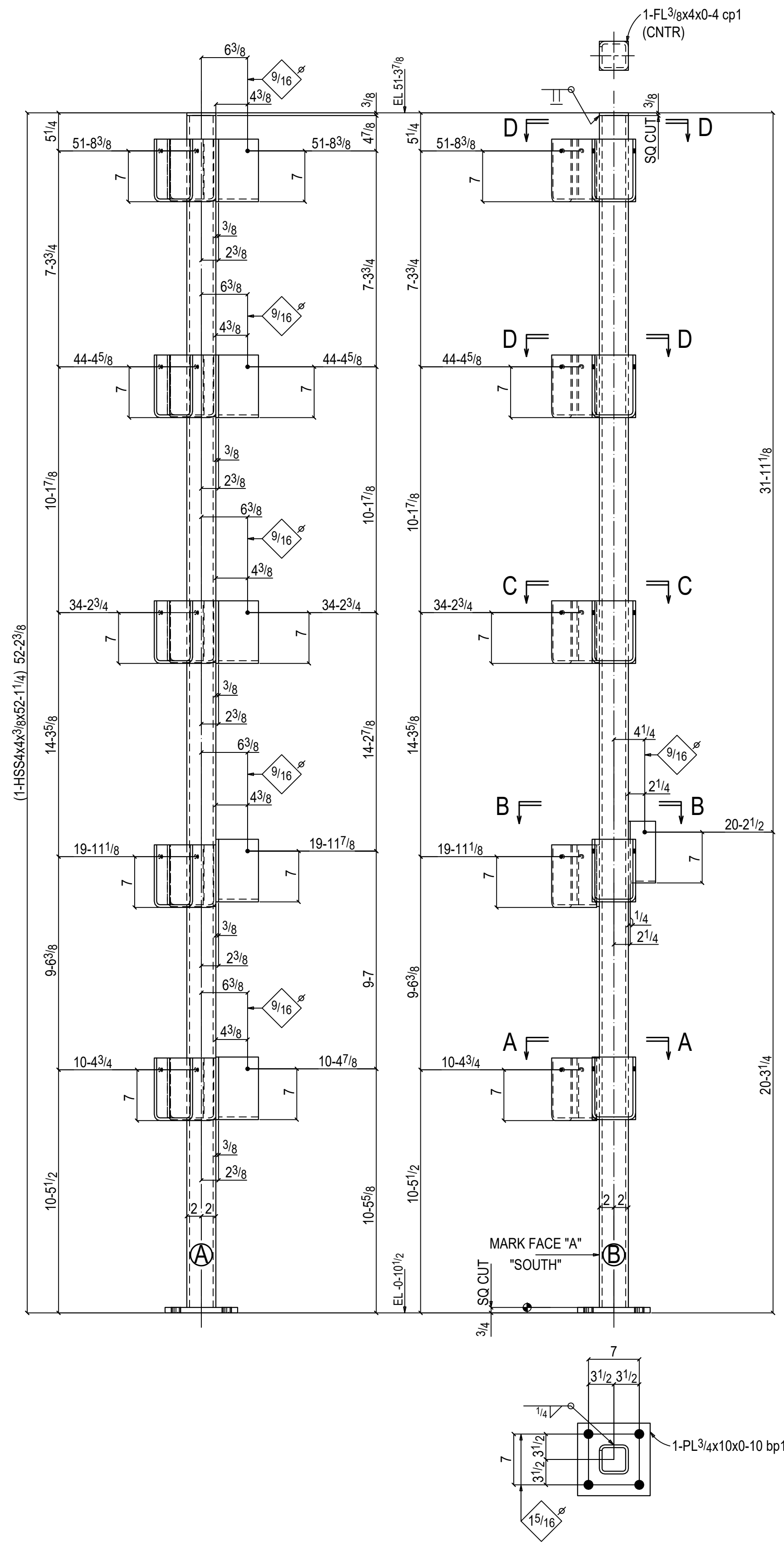
|                       |              |          |
|-----------------------|--------------|----------|
|                       | ISSUE #2     |          |
|                       | ISSUE #1     |          |
|                       | CALCS        |          |
|                       | APPROVAL (B) |          |
| REF: E1, E2, E3,E4,E5 | APPROVAL (A) | 05-17-24 |



PROJECT: JOHN KNOX VILLAGE BUILDING E  
LEE'S SUMMIT, MO

|                      |             |                    |
|----------------------|-------------|--------------------|
| DETAILER: <b>KSD</b> | JOB NUMBER: | SHEET: <b>C108</b> |
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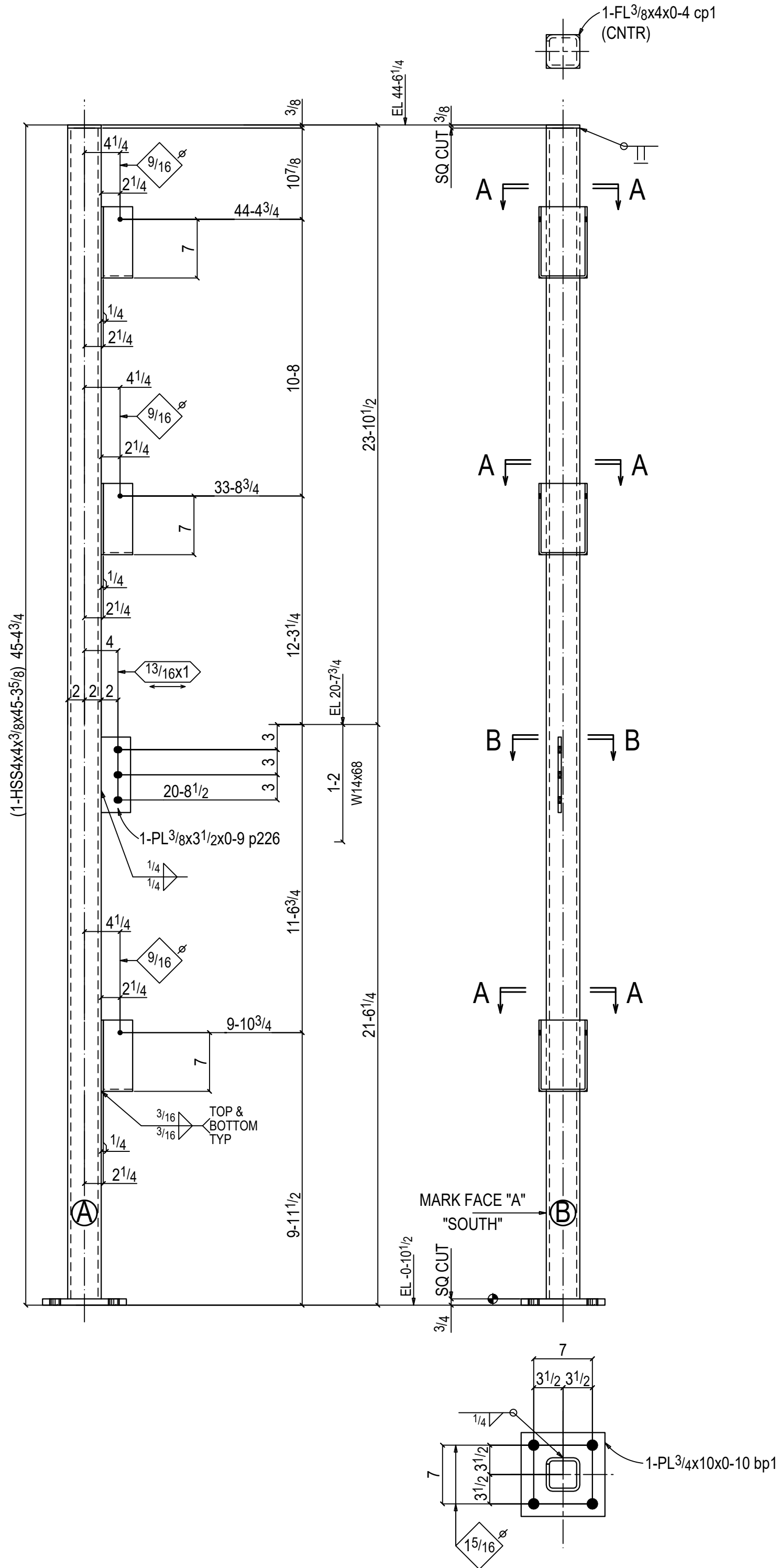
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| JOB NUMBER: | SHEET: <b>C108</b> |
| ----        | ISSUE: <b>A</b>    |



AT GRID:  
B & 2  
FIELD BOLTS:  
9-1/2Diax7 A307  
1-1/2Diax5 A307

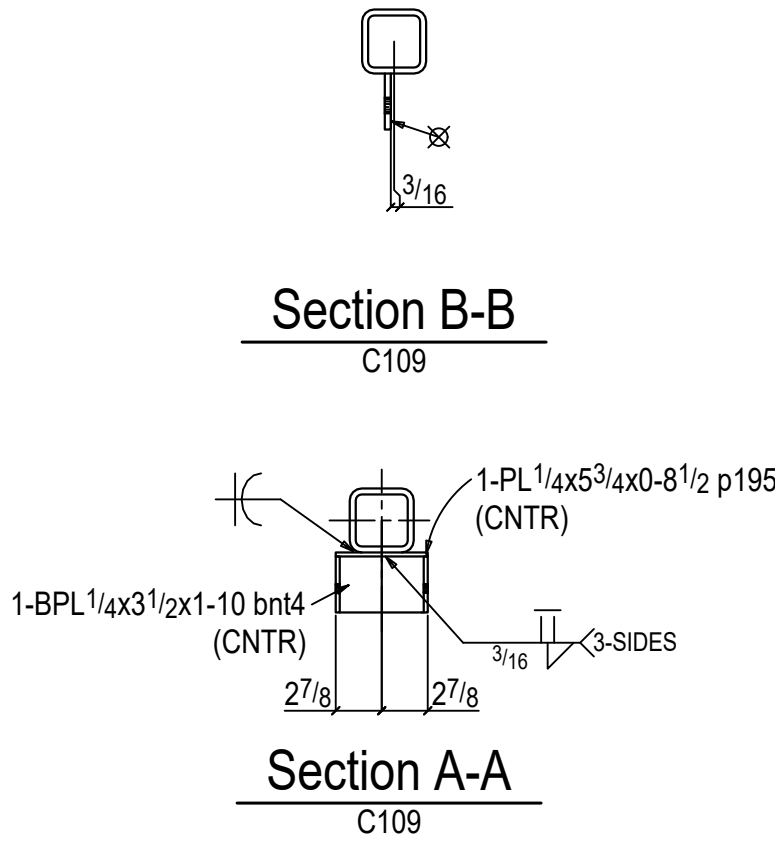
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ONE COLUMN C109

AT GRID:  
A & 4  
FIELD BOLTS:  
3-1/2Diax7 A307



FOR APPROVAL ONLY  
NOT FOR FABRICATION

BILL OF MATERIAL

| QTY   | PC   | LENGTH       | STEEL   | WEIGHT  |       |       |
|-------|------|--------------|---------|---------|-------|-------|
| TOTAL | MARK | DESCRIPTION  | FT. IN  | REMARKS | GRADE | TOTAL |
| ONE   | C109 | COLUMN       |         |         |       | 834   |
| 1     | C109 | HSS4x4x3/8   | 45 35/8 | SZE     | A500C | 782   |
| 1     | bp1  | PL3/4x10     | 0 10    |         | A36   | 20    |
| 1     | cp1  | FL3/8x4      | 0 4     |         | A36   | 2     |
| 1     | p226 | PL3/8x3 1/2  | 0 9     |         | A36   | 3     |
| 3     | p195 | PL1/4x5 3/4  | 0 8 1/2 |         | A36   | 10    |
| 3     | bnt4 | BPL1/4x3 1/2 | 1 10    | BENT    | A36   | 16    |

|   |              |     |           |  |  |  |
|---|--------------|-----|-----------|--|--|--|
|   | FIELD BOLTS  |     |           |  |  |  |
| 3 | 1/2 Dia A307 | 0 7 | +1HD WASH |  |  |  |

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| ISSUE #2     |  |
| ISSUE #1     |  |
| CALCS        |  |
| APPROVAL (B) |  |

REF: E1, E2, E3,E4APPROVAL (A) 05-17-24

MATERIAL:  
MISC. ASTM A36  
WF: ASTM A992, GR50  
TUBE: ASTM A500, GRC  
PIPE: ASTM A53, GRB



KC FAB  
13720 Botts Rd,  
Grandview, MO 64030.

FINISH: SSPC SP-2  
SHERWIN WILLIAMS  
GRAY STD PRIMER

PROJECT: JOHN KNOX VILLAGE BUILDING E  
LEE'S SUMMIT, MO

HOLES: 13/16 DIA U.N.O.

TITLE: COLUMN

BOLTS: 3/4 DIA A325N U.N.O.

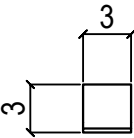
DETAILER: KSD

JOB NUMBER: SHEET: C109

WELD: E70XX

CHECKED: ABD

ISSUE: A



6 ANGLES M106

BILL OF MATERIAL

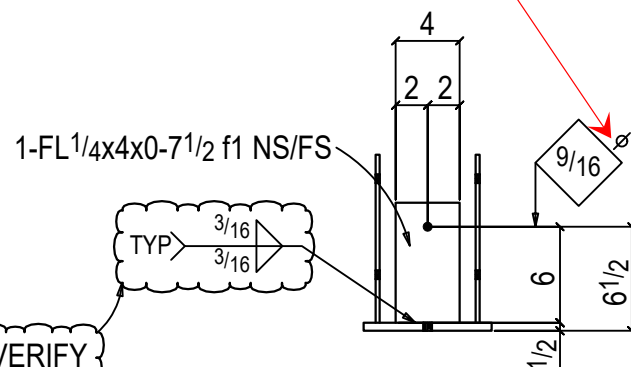
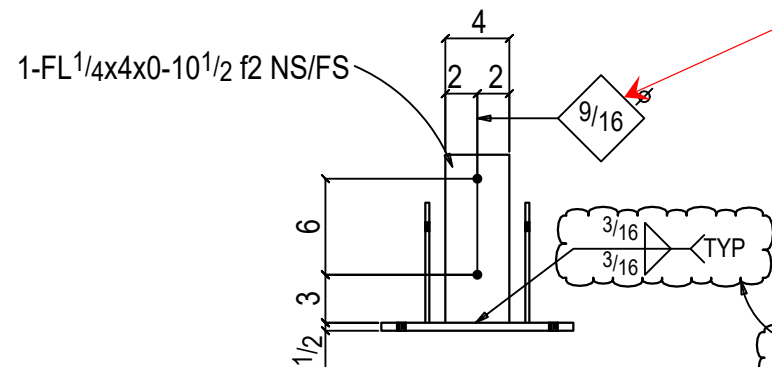
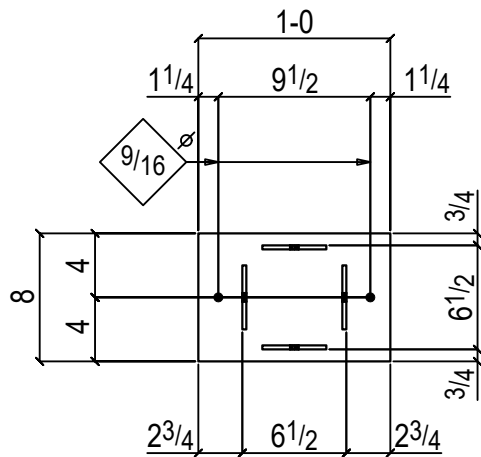
| QTY   | PC   |             | LENGTH |    |         | STEEL | WEIGHT |
|-------|------|-------------|--------|----|---------|-------|--------|
| TOTAL | MARK | DESCRIPTION | FT.    | IN | REMARKS | GRADE | TOTAL  |
| 6     | M106 | ANGLE       |        |    |         |       | 7      |
| 6     | M106 | L3x3x1/4    | 0      | 3  |         | A36   | 7      |
|       |      |             |        |    |         |       |        |
|       |      |             |        |    |         |       |        |
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|               |                       |
|---------------|-----------------------|
| ISSUE #2      |                       |
| ISSUE #1      |                       |
| CALCS         |                       |
| APPROVAL (B)  |                       |
| REF: E1,E2,E3 | APPROVAL (A) 05-17-24 |

|                                                                                                   |                                                                                          |                  |             |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------|-------------|
| MATERIAL:<br>MISC. ASTM A36<br>WF: ASTM A992, GR50<br>TUBE: ASTM A500, GRC<br>PIPE: ASTM A53, GRB | <div><div>KFAB</div><div>KC FAB<br/>13720 Botts Rd,<br/>Grandview, MO 64030.</div></div> |                  |             |
| FINISH: SSPC SP-2<br><br>NO PAINT                                                                 | PROJECT: JOHN KNOX VILLAGE BUILDING E<br><br>LEE'S SUMMIT, MO                            |                  |             |
| HOLES: 13/16 DIA U.N.O.                                                                           | TITLE: ANGLE                                                                             |                  |             |
| BOLTS: 3/4 DIA A325N U.N.O.                                                                       | DETAILER: KSD                                                                            | JOB NUMBER: ---- | SHEET: M106 |
| WELD: E70XX                                                                                       | CHECKED: ABD                                                                             |                  | ISSUE: A    |





APPROVER, PLEASE VERIFY  
CLOUDED WELDS.

## 47 BRACKETS M113

FIELD BOLTS:  
3-1/2Diax7 1/2 A307  
2-1/2Diax5 LAG SCREW

ALL MEMBER ON THIS SHEET  
ARE TO BE HOT DIP GALVANIZED

## BILL OF MATERIAL

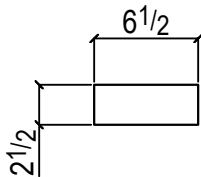
| QTY   | PC   |                   | LENGTH |        |           | STEEL | WEIGHT |
|-------|------|-------------------|--------|--------|-----------|-------|--------|
| TOTAL | MARK | DESCRIPTION       | FT.    | IN     | REMARKS   | GRADE | TOTAL  |
| 47    | M113 | BRACKET           |        |        | Galv      |       | 1111   |
| 47    | M113 | PL 1/2x8          | 1      | 0      |           | A36   | 636    |
| 94    | f2   | FL 1/4x4          | 0      | 10 1/2 |           | A36   | 277    |
| 94    | f1   | FL 1/4x4          | 0      | 7 1/2  |           | A36   | 198    |
|       |      | FIELD BOLTS       |        |        |           |       |        |
| 141   |      | 1/2 Dia A307      | 0      | 7 1/2  | +2HD WASH |       |        |
| 94    |      | 1/2 Dia LAG SCREW | 0      | 5      |           |       |        |
|       |      |                   |        |        |           |       |        |
|       |      |                   |        |        |           |       |        |
|       |      |                   |        |        |           |       |        |
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NOT FOR FABRICATION

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| ISSUE #2     |          |
| ISSUE #1     |          |
| CALCS        |          |
| APPROVAL (B) |          |
| APPROVAL (A) | 05-17-24 |

REF: E6,E7

|                                                                                                   |                                                                         |                         |                    |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------|--------------------|
| MATERIAL:<br>MISC. ASTM A36<br>WF: ASTM A992, GR50<br>TUBE: ASTM A500, GRC<br>PIPE: ASTM A53, GRB | <b>KC FAB</b><br>13720 Botts Rd,<br>Grandview, MO 64030.                |                         |                    |
| FINISH:<br><b>GALVANIZED</b>                                                                      | PROJECT: <b>JOHN KNOX VILLAGE BUILDING E</b><br><b>LEE'S SUMMIT, MO</b> |                         |                    |
| HOLES: 13/16 DIA U.N.O.                                                                           | TITLE: <b>BRACKET</b>                                                   |                         |                    |
| BOLTS: 3/4 DIA A325N U.N.O.                                                                       | DETAILER: <b>KSD</b>                                                    | JOB NUMBER: <b>----</b> | SHEET: <b>M113</b> |
| WELD: <b>E70XX</b>                                                                                | CHECKED: <b>RS</b>                                                      |                         | ISSUE: <b>A</b>    |



2 PLATES M115

BILL OF MATERIAL

| QTY   | PC   |              | LENGTH |       |         | STEEL | WEIGHT |
|-------|------|--------------|--------|-------|---------|-------|--------|
| TOTAL | MARK | DESCRIPTION  | FT.    | IN    | REMARKS | GRADE | TOTAL  |
| 2     | M115 | PLATE        |        |       |         |       | 2      |
| 2     | M115 | PL 1/4x2 1/2 | 0      | 6 1/2 |         | A36   | 2      |
|       |      |              |        |       |         |       |        |
|       |      |              |        |       |         |       |        |
|       |      |              |        |       |         |       |        |
|       |      |              |        |       |         |       |        |
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| ISSUE #2     |                       |
| ISSUE #1     |                       |
| CALCS        |                       |
| APPROVAL (B) |                       |
| REF: E4      | APPROVAL (A) 05-17-24 |

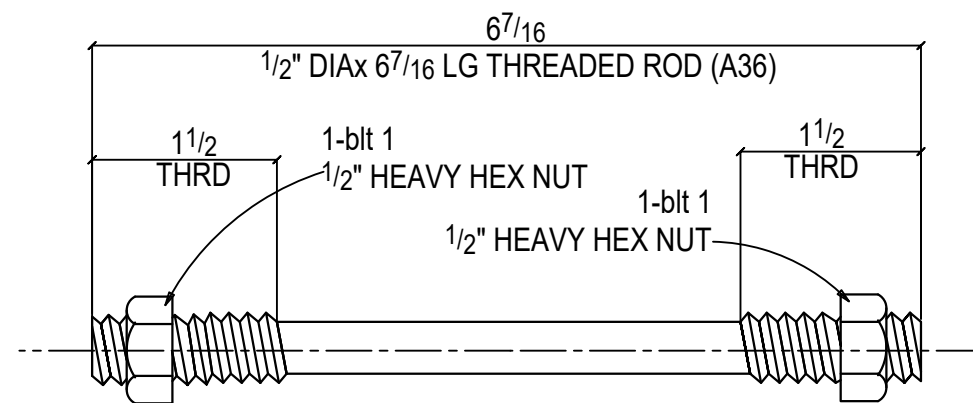
|                                                                                                   |                                                                                          |                  |             |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------|-------------|
| MATERIAL:<br>MISC. ASTM A36<br>WF: ASTM A992, GR50<br>TUBE: ASTM A500, GRC<br>PIPE: ASTM A53, GRB | <div><div>KFAB</div><div>KC FAB<br/>13720 Botts Rd,<br/>Grandview, MO 64030.</div></div> |                  |             |
| FINISH: SSPC SP-2<br><br>NO PAINT                                                                 | PROJECT: JOHN KNOX VILLAGE BUILDING E<br><br>LEE'S SUMMIT, MO                            |                  |             |
| HOLES: 13/16 DIA U.N.O.                                                                           | TITLE: PLATE                                                                             |                  |             |
| BOLTS: 3/4 DIA A325N U.N.O.                                                                       | DETAILER: KSD                                                                            | JOB NUMBER: ---- | SHEET: M115 |
| WELD: E70XX                                                                                       | CHECKED: ABD                                                                             |                  | ISSUE: A    |



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|                                                                                                   |                                                                                                                                                |              |                    |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|
|                                                                                                   |                                                                                                                                                | ISSUE #2     |                    |
|                                                                                                   |                                                                                                                                                | ISSUE #1     |                    |
|                                                                                                   |                                                                                                                                                | CALCS        |                    |
|                                                                                                   |                                                                                                                                                | APPROVAL (B) |                    |
| REF: <b>E5</b>                                                                                    |                                                                                                                                                | APPROVAL (A) | 05-17-24           |
| MATERIAL:<br>MISC. ASTM A36<br>WF: ASTM A992, GR50<br>TUBE: ASTM A500, GRC<br>PIPE: ASTM A53, GRB |  <b>KC FAB</b><br>13720 Botts Rd,<br>Grandview, MO 64030. |              |                    |
| FINISH: <b>SSPC SP-2</b><br><br><b>NO PAINT</b>                                                   | PROJECT: <b>JOHN KNOX VILLAGE BUILDING E</b><br><br><b>LEE'S SUMMIT, MO</b>                                                                    |              |                    |
| HOLES: <b>13/16 DIA U.N.O.</b>                                                                    | TITLE: <b>THREADED ROD</b>                                                                                                                     |              |                    |
| BOLTS: <b>3/4 DIA A325N U.N.O.</b>                                                                | DETAILER: <b>KSD</b>                                                                                                                           | JOB NUMBER:  | SHEET: <b>M116</b> |
| WELD: <b>E70XX</b>                                                                                | CHECKED: <b>RS</b>                                                                                                                             | <b>----</b>  | ISSUE: <b>A</b>    |





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NOT FOR FABRICATION

## 26 THREADED RODS M117



**KC FAB**  
13720 Botts Rd,  
Overland Park, MO 64030.