

# HCA LEE'S SUMMIT MEDICAL CENTER ED EXPANSION

2100 SOUTHEAST BLUE PARKWAY

LEE'S SUMMIT, MISSOURI

## GENERAL NOTES

- EXCEL ENGINEERING IS ACTING AS A SPECIALTY STRUCTURAL COMPONENT ENGINEER, DESIGNING THE COLD-FORMED STEEL FRAMING OF THE PROJECT ONLY. EXCEL ENGINEERING TAKES FULL RESPONSIBILITY FOR THE DESIGN OF THE STRUCTURAL COLD-FORMED STEEL FRAMING AND THEIR ATTACHMENT TO THE SUPPORTING STRUCTURAL ELEMENTS OF THE BUILDING. EXCEL ENGINEERING TAKES NO RESPONSIBILITY FOR THE DESIGN OF ANY SUPPORTING STRUCTURAL ELEMENTS. IT IS ASSUMED THAT ALL SUPPORTING STRUCTURAL ELEMENTS HAVE BEEN DESIGNED BY THE PROJECT ENGINEER OF RECORD (EOR) AND/OR ARCHITECT OF RECORD (AOR) TO WITHSTAND THE FORCES IMPOSED BY THE STRUCTURAL COLD-FORMED STEEL FRAMING. EXCEL ENGINEERING EXPECTS THAT THIS COMPONENT SUBMITTAL WILL BE REVIEWED BY THE EOR AND/OR AOR FOR CONFORMANCE WITH THE OVERALL PROJECT REQUIREMENTS.
- SECTION PROPERTIES ARE ASSUMED TO BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" 2016 EDITION WITH SUPPLEMENTS. THE CONTRACTOR IS TO VERIFY THAT THE MATERIALS INSTALLED MEET OR EXCEED THESE DESIGN VALUES.
- ALL COLD-FORMED STEEL FRAMING HAS BEEN DESIGNED FOR UNIFORM LATERAL LOADS AND WALL CONSTRUCTION DEAD LOADS ONLY. THE WEIGHT OF ANY MASONRY VENEER IS ASSUMED TO BE SUPPORTED INDEPENDENT OF THE COLD-FORMED STEEL FRAMING, U.N.O. THE COLD-FORMED STEEL FRAMING HAS BEEN DESIGNED TO LATERALLY SUPPORT ANY MASONRY VENEER.
- ALLOWABLE STRESS HAS NOT BEEN INCREASED DUE TO WIND. HOWEVER, THE STRENGTH LEVEL WIND LOAD HAS BEEN REDUCED TO 42% (70% FOR SERVICE LEVEL) FOR THE PURPOSE OF DETERMINING DEFLECTION PER IBC 2018, TABLE 1604.3, NOTE F.
- THE CONTENTS OF THIS SUBMITTAL SHOW THE APPLICATION OF COLD-FORMED STEEL FRAMING COMPONENTS. THE FRAMING CONTRACTOR IS TO REFER TO THE PROJECT CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
- DIMENSIONS SHOWN HEREIN ARE FOR ENGINEERING PURPOSES **ONLY** AND MUST BE REVIEWED FOR THE PURPOSE OF APPROVAL. ALL CONDITIONS ARE SUBJECT TO SUCH APPROVAL, AND TO FIELD VERIFICATION PRIOR TO FABRICATION OR ERECTION.
- MECHANICAL BRIDGING SHALL BE USED IN ALL CASES WHERE INDICATED. INSTALLATION OF BRIDGING MUST BE COMPLETED BEFORE ANY LOADS ARE APPLIED TO THE SYSTEM. ALL BRIDGING SHALL BE TERMINATED AT JAMBS, CORNER STUDS OR COLUMNS. BRIDGING ENDS SHALL **NOT** HANG LOOSE. STUDS SHALL BE BRACED AGAINST ROTATION.
- FOR SPECIFIC REQUIREMENTS AND WARRANTY INFORMATION ON SYSTEMS OR MATERIALS CONNECTED AND APPURTENANT TO THE COLD-FORMED STEEL FRAMING INCLUDING CLADDING, SHEATHING, ROOFING, WINDOWS, DOORS, CAULKING AND FLASHING, REFER TO THE MANUFACTURERS' DATA. THIS SUBMITTAL ASSUMES NO RESPONSIBILITY FOR THE PROPER CONSTRUCTION OR FUNCTION OF THE TOTAL ARCHITECTURAL ASSEMBLY. THE COORDINATION OF ARCHITECTURAL AND/OR STRUCTURAL BUILDING COMPONENTS IS NOT UNDER THE SCOPE OF THIS SUBMITTAL OR CONTRACT.
- ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS. STUD ENDS MUST SEAT TIGHTLY INTO TRACKS IN ALL BEARING APPLICATIONS.
- NO SPLICES IN STUDS, JOISTS, HEADERS, OR OTHER LOAD CARRYING MEMBERS MAY BE MADE WITHOUT PRIOR ENGINEERING REVIEW AND SPECIFIC DETAILS FOR ANY SUCH REVISION TO THE ORIGINAL DESIGN.
- THIS SUBMITTAL DOES **NOT** TAKE PRECEDENCE OVER THE CONTRACT DOCUMENTS WITH REGARD TO MINIMUM KSI, THICKNESS, DEPTH, FLANGE WIDTH, OR SPACING, UNLESS APPROVED BY THE EOR AND/OR AOR.
- THE CONNECTOR VALUES USED IN THIS SUBMITTAL ARE FROM PUBLISHED MANUFACTURER SPECIFICATIONS (VALUES ENCLOSED). ALL SCREW AND WELD VALUES ARE BASED ON THE 2016 AISI NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENTS. WELDING PROCEDURE SHALL BE IN ACCORDANCE WITH AWS D1.3-08. THE CONTRACTOR SHALL CONFIRM WITH THE MANUFACTURER THAT THE CONNECTORS THEY INTEND TO USE MEET OR EXCEED THE DESIGN VALUES REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE TO NOT OVERLOAD MEMBERS DURING CONSTRUCTION OR ERECTION AND TO SUPPLY ADEQUATE TEMPORARY BRACING UNTIL PERMANENT BRIDGING PROVIDING STABILITY TO BOTH FLANGES IS IN PLACE.
- TOUCH-UP ALL WELDS WITH ZINC-RICH PAINT (ASTM A-780). APPLY TO BOTH SIDES OF STUD.
- FUTURE EXPANSION HAS **NOT** BEEN CONSIDERED AS PART OF THE DESIGN OF THIS PROJECT.
- THE CONTRACTOR IS CAUTIONED AS TO NOT STORE ANY CONSTRUCTION MATERIALS OR UNDERTAKE ANY CONSTRUCTION OPERATION WHICH WILL EXCEED THE DESIGN LIVE LOAD CAPACITIES NOTED.

## DESIGN CRITERIA

### GOVERNING CODES

|  |              |
|--|--------------|
| 2018 "INTERNATIONAL BUILDING CODE"   | IBC 2018     |
| 2016 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"                             | ASCE 7-16    |
| 2016 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" | AISI S100-16 |
| 2015 "CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL STRUCTURAL FRAMING"                  | AISI S202-15 |
| 2008 "STRUCTURAL WELDING CODE - SHEET STEEL"   | AWS D1.3-08  |
| 2014 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"                                  | ACI 318-14   |

### DESIGN STRESSES

|                           |              |   |
|---------------------------|--------------|---|
| CONCRETE                  | 4000 PSI     | = COMPRESSIVE STRENGTH (F'c)                              |
| STRUCTURAL STEEL          | 36 KSI (MIN) | = YIELD STRESS (Fy) - ASTM A-36: ALL SHAPES U.N.O.        |
| COLD-FORMED STEEL FRAMING | 33 KSI (MIN) | = YIELD STRESS (Fy) - A1003 U.N.O.                        |
| WELD ELECTRODES           | 60 KSI (MIN) | = TENSILE STRENGTH (Fxx) @ THICKNESS < 1/8" (CFS FRAMING) |
|                           | 70 KSI (MIN) | = TENSILE STRENGTH (Fxx) @ ALL OTHER THICKNESS            |

### DESIGN LOADING

|              |         |                                       |
|--------------|---------|---------------------------------------|
| <b>WIND:</b> | 122 MPH | = STRENGTH LEVEL WIND SPEED           |
|              | 95 MPH  | = EQUIVALENT SERVICE LEVEL WIND SPEED |
|              | IV      | = RISK CATEGORY                       |
|              | "C"     | = EXPOSURE CATEGORY                   |
|              | 0.18    | = INTERNAL PRESSURE COEFFICIENT       |

| STRENGTH LEVEL C&C PRESSURE/SUCTION (MINIMUM = 16 PSF) |                                   |        |       |        |       |        |       |        |
|--|-----------------------------------|--------|-------|--------|-------|--------|-------|--------|
| ZONE   | EFFECTIVE AREA (FT <sup>2</sup> ) |        |       |        |       |        |       |        |
|  | 10.0                              |        | 50.0  |        | 100.0 |        | 200.0 |        |
| WALL 4   | 31.50                             | -34.13 | 28.26 | -30.88 | 26.86 | -29.49 | 25.47 | -28.09 |
| WALL 5   | 31.50                             | -42.00 | 28.26 | -35.52 | 26.86 | -32.73 | 25.47 | -29.94 |

STRENGTH LEVEL LOADS MAY BE REDUCED TO 42% FOR THE PURPOSE OF DETERMINING DEFLECTION PER IBC 2018, TABLE 1604.3, NOTE F.

| SERVICE LEVEL (D+.6W) C&C PRESSURE/SUCTION (MINIMUM = 9.6 PSF) |                                   |        |       |        |       |        |       |        |
|--|-----------------------------------|--------|-------|--------|-------|--------|-------|--------|
| ZONE   | EFFECTIVE AREA (FT <sup>2</sup> ) |        |       |        |       |        |       |        |
|  | 10.0                              |        | 50.0  |        | 100.0 |        | 200.0 |        |
| WALL 4   | 18.90                             | -20.48 | 16.96 | -18.53 | 16.12 | -17.69 | 15.28 | -16.86 |
| WALL 5   | 18.90                             | -25.20 | 16.96 | -21.31 | 16.12 | -19.64 | 15.28 | -17.96 |

SERVICE LEVEL LOADS MAY BE REDUCED TO 70% FOR THE PURPOSE OF DETERMINING DEFLECTION PER IBC 2018, TABLE 1604.3, NOTE F.

|                 |     |                           |                         |                         |                       |
|-----------------|-----|---------------------------|-------------------------|-------------------------|-----------------------|
| <b>SEISMIC:</b> | IV  | = RISK CATEGORY           | S <sub>s</sub> = 0.101  | S <sub>1</sub> = 0.069  | I <sub>e</sub> = 1.50 |
|                 | "D" | = SITE CLASS              | S <sub>D5</sub> = 0.108 | S <sub>D1</sub> = 0.110 |                       |
|                 | "C" | = SEISMIC DESIGN CATEGORY |                         |                         |                       |

|              |        |                                  |                 |
|--------------|--------|----------------------------------|-----------------|
| <b>DEAD:</b> | 50 PSF | = WALL DEAD LOAD BRICK VENEER    | (46 PSF ACTUAL) |
|              | 10 PSF | = WALL DEAD LOAD EVERYWHERE ELSE | (6 PSF ACTUAL)  |
|              | 10 PSF | = SOFFIT DEAD LOAD               | (4 PSF ACTUAL)  |

### DEFLECTION LIMITS (BASED ON STUD PROPERTIES ALONE):

|          |    |                 |           |
|----------|----|-----------------|-----------|
| L / 600  | WL | @ BRICK VENEER  | (ASSUMED) |
| L / 360  | WL | EVERYWHERE ELSE | (ASSUMED) |
| 0.75 in. |    | SLIP GAP        | (ASSUMED) |

## SHEET INDEX

| SHEET                                   | SHEET TITLE                            | CONSTRUCTION SET |
|---|--|------------------|
| CFS FRAMING DRAWING SUBMITTAL DATE:     |  | NOV. 12, 2025    |
| ARCHITECTURAL CONTRACT DOCUMENTS DATED: |  | JUL. 30, 2025    |
| STRUCTURAL CONTRACT DOCUMENTS DATED:    |  | JUN. 05, 2025    |
| C1                                      | COVER SHEET                            | ●                |
| C2                                      | GENERAL INFORMATION                    | ●                |
| C3                                      | FIELD REPAIR & FABRICATION INFORMATION | ●                |
| E1                                      | ELEVATIONS                             | ●                |
| S1                                      | WALL SECTIONS                          | ●                |
| S2                                      | WALL SECTIONS                          | ●                |
| D1                                      | CONNECTION DETAILS                     | ●                |
| D2                                      | CONNECTION DETAILS                     | ●                |

RELEASED FOR CONSTRUCTION  
As Noted on Plans Review  
Development Services Department  
Lee's Summit, Missouri  
11/12/25

Always a Better Plan  
100 CAMELOT DRIVE  
FOND DU LAC, WI 54935  
PHONE: (920) 926-9800  
WWW.EXCELENGINEER.COM

**PROJECT INFORMATION**

PROJECT CONTRACTOR  
E & K OF KANSAS CITY, INC.  
4001 E 143RD STREET  
GRANDVIEW, MO 64030

COLD-FORMED STEEL SUBMITTAL FOR  
**HCA LEES SUMMIT MEDICAL CENTER ED EXPANSION**  
2100 SE BLUE PKWY • LEE'S SUMMIT, MO 64063

**PROJECT ENGINEER**

OWEN SELLE  
owen.selle@excelengineer.com  
(920) 926-3282  
DRAWN BY: OLS

PROFESSIONAL SEAL

**SUBMITTAL DATES**

ISSUE DATE NOV. 12, 2025

REVISIONS

**PROJECT NUMBER**

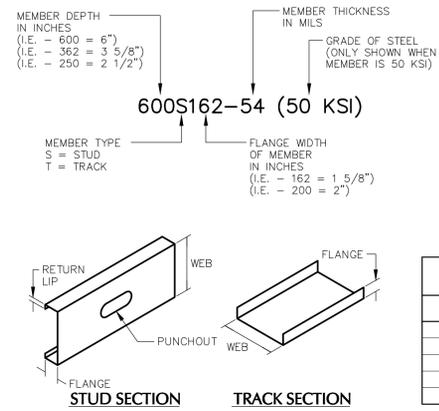
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**SHEET INFORMATION**

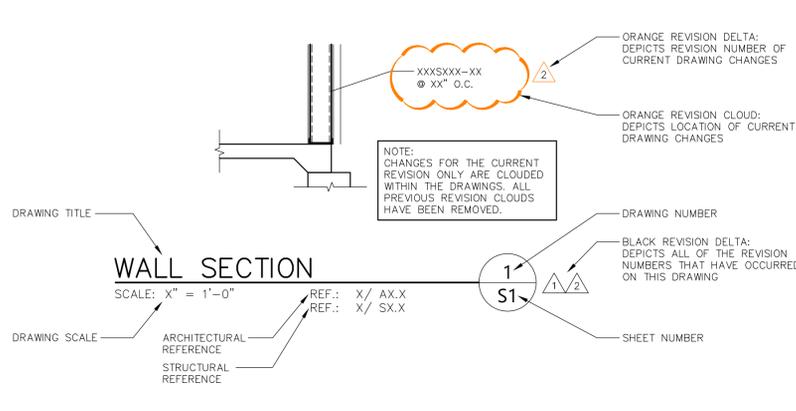
SHEET NUMBER

C1

# MEMBER DESIGNATION



# DRAWING INFORMATION



# ABBREVIATIONS

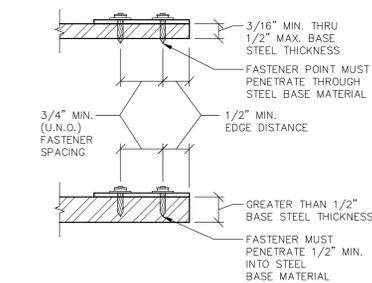
|                               |  |  |   |                              |                       |                               |                        |
|-------------------------------|--|--|---|------------------------------|-----------------------|-------------------------------|------------------------|
| ABV ABOVE ARCHITECT/ ENGINEER | CONC. CONSTRUCTION                         | EQ. EXTERIOR                                 | EQUAL EXTERIOR                          | MAX. MIN.                    | MAXIMUM MINIMUM       | S.D.S. SCHED.                 | SELF-DRILLING SCREW    |
| A/E ARCHITECT/ ENGINEER       | CONT. CONTINUOUS                           | EXT. FINISH FLOOR                            | EXTERIOR FINISH FLOOR                   | MECH. MECHANICAL             | MECHANICAL            | SCHED. SCHEDULE               | SCHEDULE SCREW         |
| ALT. ALTERNATE                | CONTR. CONTRACTOR                          | F.T. FIRE TREATED                            | FIRE TREATED FLOOR                      | MFR. MANUFACTURE             | MANUFACTURE           | SEC. SECTION                  | SECTION                |
| ARCH. ARCHITECT OF RECORD     | CONN. CONNECTION                           | FLR. FLOOR                                   | FLOOR                                   | MISC. MISCELLANEOUS          | MISCELLANEOUS         | SIM. SIMILAR                  | SIMILAR                |
| BLDG. BOARD                   | CR. COLD-ROLLED CHANNEL                    | FOOT/FEET                                    | FOOT/FEET                               | MEZZ. MEZZANINE              | MEZZANINE             | SPEC. SPECIFICATION           | SPECIFICATION          |
| BLDG. BOARD                   | CR. COLD-ROLLED CHANNEL                    | GAUGE  | GAUGE                                   | N.I.C. NOT IN CONTRACT       | NOT IN CONTRACT       | STD. STANDARD                 | STANDARD               |
| B.L.O. BOTTOM OF BEAM         | DBL. DOUBLE                                | GA. GA. GENERAL CONTRACTOR                   | GENERAL CONTRACTOR                      | NO. / # NUMBER               | NUMBER                | STRUC. STRUCTURAL             | STRUCTURAL             |
| B.O. BOTTOM OF BEAM           | DEG. DEGREE                                | G.C. GYPSUM                                  | GYPSUM                                  | N.T.S. NOT TO SCALE          | NOT TO SCALE          | STRUC. STRUCTURAL             | STRUCTURAL             |
| B.M. BEARING                  | DIAG. / DIM. DIAGONAL DIMENSION            | H.P. HEADER                                  | HEADER                                  | O.P. OPPOSITE                | OPPOSITE              | T&B. TOP & BOTTOM             | TOP & BOTTOM           |
| BRG. BEARING                  | DIA. / DIM. DIAMETER DIMENSION             | H.P. HIGH POINT                              | HIGH POINT                              | O.C. ON CENTER               | ON CENTER             | T.O. TOP OF                   | TOP OF                 |
| CLG. CEILING                  | DM. DIM. DIAMETER DIMENSION                | H.V. HEATING, VENTILATING & AIR CONDITIONING | HEATING, VENTILATING & AIR CONDITIONING | O.H. OVERHEAD                | OVERHEAD              | TYP. TYPICAL                  | TYPICAL                |
| CMU CONCRETE MASONRY UNIT     | D.W. DRYWALL                               | INT. INTERIOR                                | INTERIOR                                | P.D.F. POWER DRIVEN FASTENER | POWER DRIVEN FASTENER | U.N.O. UNLESS NOTED OTHERWISE | UNLESS NOTED OTHERWISE |
|                               | E.A. EACH                                  | INSUL. INSULATION                            | INSULATION                              | PL. / PLY. PLYWOOD           | PLYWOOD               | VERT. VERTICAL                | VERTICAL               |
|                               | E.I.F.S. EXTERIOR INSULATION FINISH SYSTEM | INT. INTERIOR                                | INTERIOR                                | PT. POST-TENSIONED           | POST-TENSIONED        | V.S.C. VERTICAL SLIDE CLIP    | VERTICAL SLIDE CLIP    |
|                               | ENG. ENGINEER                              | INT. INTERIOR                                | INTERIOR                                | R.O. ROUGH OPENING           | ROUGH OPENING         | W/ WITH                       | WITH                   |
|                               | EOR ENGINEER OF RECORD                     | INT. INTERIOR                                | INTERIOR                                | REQ'D. REQUIRED              | REQUIRED              | W/O WITHOUT                   | WITHOUT                |
|                               | EL ELEVATION                               | INT. INTERIOR                                | INTERIOR                                | REF. REFERENCE               | REFERENCE             | WD. WOOD                      | WOOD                   |
|                               | ENG. ENGINEER                              | INT. INTERIOR                                | INTERIOR                                | REF. REFERENCE               | REFERENCE             | WDW. WINDOW                   | WINDOW                 |

# APPROVED FASTENERS

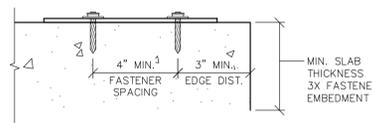
## POWER DRIVEN FASTENERS

- POWER DRIVEN FASTENER NOTES:**  
 1.) MUST BE INSTALLED PERPENDICULAR  
 2.) MUST BE INSTALLED FULLY SEATED

- P.D.F. TO STEEL**  
 (POINT OF P.D.F. TO PENETRATE STRUC. STEEL)
- 'HILTI' X-U (ICC ESR-2289)
  - 'RAMSEY' TE (ICC ESR-1799)
  - 'DEWALT' SPIRAL CSI (ICC ESR-2024)



- P.D.F. TO CONCRETE**  
 (REFER TO DETAIL FOR REQUIRED LENGTH)
- 'HILTI' X-U OR X-P (ICC ESR-2289)
  - 'RAMSEY' TE (ICC ESR-1799)
  - 'DEWALT' SPIRAL CSI (ICC ESR-2024)
  - 'SIMPSON' PDPA (ICC ESR-2138)

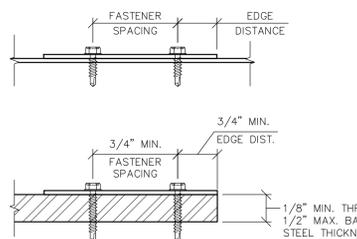


## SCREWS

- SCREW FASTENER NOTES:**  
 1.) MUST BE INSTALLED PERPENDICULAR  
 2.) MUST BE INSTALLED FULLY SEATED  
 3.) MIN. (3) SCREW THREADS EXPOSED BACKSIDE OF CONN. (U.N.O.)

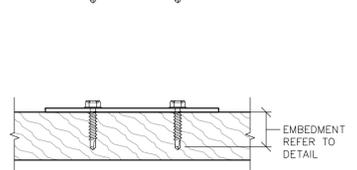
| SCREW | MIN. SHANK Ø ("D") | MIN. HEAD Ø | FASTENER SPACING | EDGE DISTANCE |
|-------|--------------------|-------------|------------------|---------------|
| #8    | .164"              | .335"       | 1/2"             | 1/4"          |
| #10   | .190"              | .400"       | 5/8"             | 3/8"          |
| #12   | .216"              | .415"       | 3/4"             | 3/8"          |
| #14   | .250"              | .500"       | 3/4"             | 3/8"          |

- SCREWS TO COLD FORMED STEEL**
- 'ITW BUILDEX' TEKS (ICC ESR-1976)
  - 'HILTI' SDS (ICC ESR-2196)
  - 'GRABBER' DRIVAL (ICC ESR-1271)
  - 'PRO-TWIST' DARTS (ICC ESR-1408)
  - 'INTERCORP' STRONG-POINT (ICC ESR-3028)
  - 'ELCO' DRILL-FLEX (ICC ESR-3332)

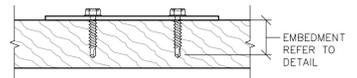


- SCREWS TO STRUCTURAL STEEL**
- 'ITW BUILDEX' TEKS (ICC ESR-1976)
  - 'HILTI' SDS (ICC ESR-2196)

| DRILL POINT | #10 SCREW   | #12 SCREW   | #14 SCREW   |
|-------------|-------------|-------------|-------------|
| #1          | -           | .024"-.095" | -           |
| #2          | .090"-.110" | .050"-.140" | .060"-.120" |
| #3          | .110"-.175" | .090"-.210" | .110"-.250" |
| #4          | -           | .125"-.250" | .125"-.250" |
| #4.5        | -           | .145"-.375" | -           |
| #5          | -           | .250"-.500" | .250"-.500" |



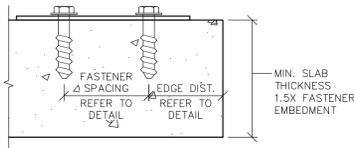
- METAL TO WOOD SCREWS**
- 'BUILDEX' TRUGRIP GT



## CONCRETE SCREW ANCHORS (MAY BE INDICATED AT CONCRETE OR CMU)

- CONCRETE SCREW ANCHOR FASTENER NOTES:**  
 1.) MUST BE INSTALLED PERPENDICULAR  
 2.) MUST BE INSTALLED FLUSH  
 3.) MUST FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS  
 4.) SEE SPECIAL ANCHORAGE FOR TOP CONNECTION TO CONCRETE OVER METAL DECK AND CONNECTION TO CMU

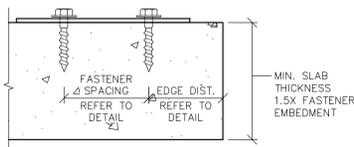
- CONCRETE SCREW ANCHORS**  
 (REFER TO DETAIL FOR REQUIRED LENGTH)
- |                       | TO CONCRETE    | TO CMU         |
|-----------------------|----------------|----------------|
| • 'HILTI' KWIK HUS-EZ | (ICC ESR-3027) | (ICC ESR-3056) |
| • 'SIMPSON' TITEN HD  | (ICC ESR-2713) | (ICC ESR-1056) |
| • 'ITW' TAPCON+       | (ICC ESR-3699) | (ICC ESR-1671) |



## MASONRY SCREW ANCHORS (MAY BE INDICATED AT CONCRETE OR CMU)

- MASONRY SCREW ANCHOR FASTENER NOTES:**  
 1.) MUST BE INSTALLED PERPENDICULAR  
 2.) MUST BE INSTALLED FLUSH  
 3.) MUST FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS  
 4.) SEE SPECIAL ANCHORAGE FOR TOP CONNECTION TO CONCRETE OVER METAL DECK AND CONNECTION TO CMU

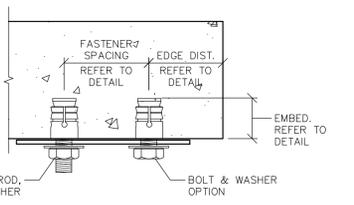
- MASONRY SCREW ANCHORS**  
 (REFER TO DETAIL FOR REQUIRED LENGTH)
- |                         | TO CONCRETE    | TO CMU         |
|-------------------------|----------------|----------------|
| • 'HILTI' KWIK-CON+     | (ICC ESR-2202) | (ICC ESR-1671) |
| • 'ITW' TAPCON          | (ICC ESR-3068) | (ICC ESR-3196) |
| • 'SIMPSON' TITEN TURBO | (UES ER-712)   | (UES ER-716)   |



## UNDERCUT ANCHORS

- UNDERCUT ANCHOR NOTES:**  
 1.) MUST BE INSTALLED PERPENDICULAR  
 2.) MUST BE INSTALLED FLUSH  
 3.) MUST FOLLOW MANUFACTURER INSTALLATION INSTR.  
 4.) THREADED ROD OR BOLT: F1554 GR. 36 OR A36  
 5.) NUT: ASTM A194 / A563 GRADE A (NOT REQ'D W/ BOLT  
 6.) WASHER: ASTM F436

- UNDERCUT ANCHORS TO CONCRETE**  
 (REFER TO DETAIL FOR SIZE)
- 'DEWALT' MINI-UNDERCUT+ (ICC ESR-3912)

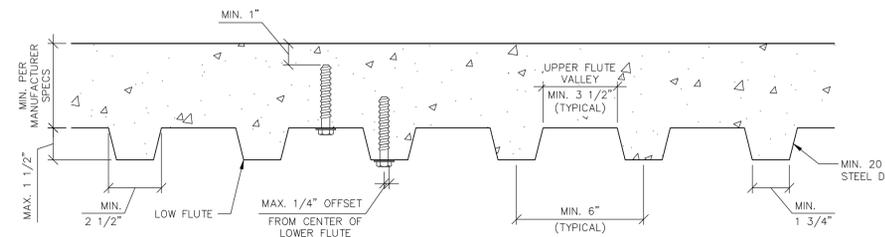
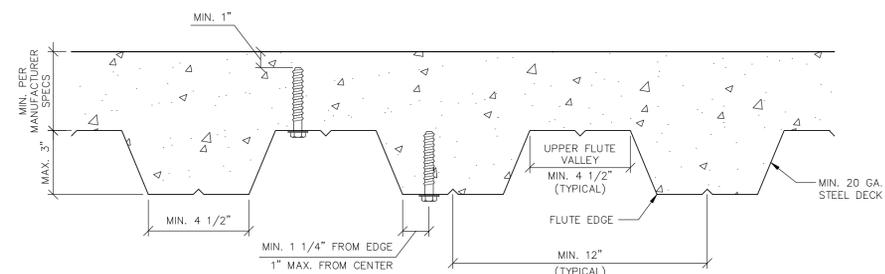


## WELD

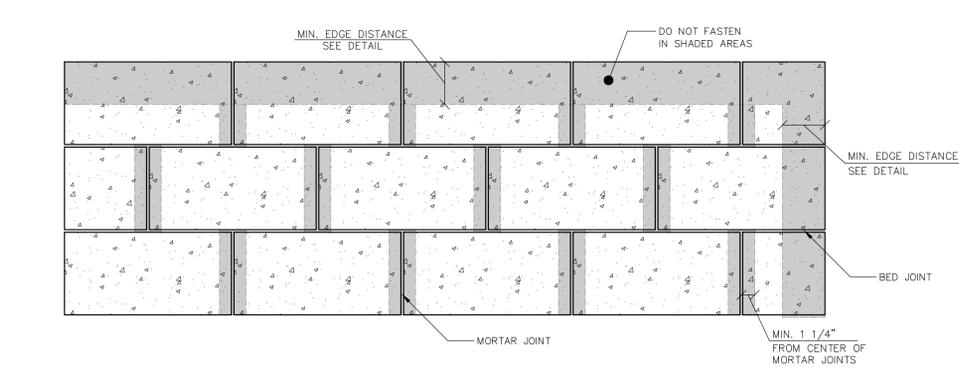
- WELD FASTENING NOTES:**  
 1.) TOUCH-UP ALL WELDS WITH ZINC-RICH PAINT (ASTM A-780)  
 2.) BURN THRU IS NOT ALLOWED  
 3.) WELD THICKNESS TO BE BASED ON THINNEST MATERIAL BEING WELDED  
 4.) WELDING PERSONNEL SHALL BE CERTIFIED PER AWS D1.3 STANDARDS  
 5.) WELDING PROCEDURE SHALL BE IN ACCORDANCE WITH AWS D1.3

| STEEL STUD THICKNESS | WELD THICKNESS (1) |
|----------------------|--------------------|
| 33 MILS              | NO WELDING         |
| 43 MILS              | 1/8"               |
| 54 MILS              | 1/8"               |
| 68 MILS              | 1/8"               |
| 97 MILS              | 5/32"              |

## SPECIAL ANCHORAGE - CONCRETE OVER METAL DECK



## SPECIAL ANCHORAGE - CONCRETE MASONRY UNITS (CMU)



RELEASED FOR CONSTRUCTION  
 As Noted on Plans Review  
 Development Services Department  
 Lee's Summit, Missouri  
 64063

Always a Better Plan  
 100 CAMELOT DRIVE  
 FOND DU LAC, WI 54935  
 PHONE: (920) 926-9800  
 WWW.EXCELENGINEER.COM

**PROJECT INFORMATION**

PROJECT CONTRACTOR  
 E & K OF KANSAS CITY, INC.  
 4001 E 143RD STREET  
 GRANDVIEW, MO 64030

COLD-FORMED STEEL SUBMITTAL FOR  
**HCA LEES SUMMIT MEDICAL CENTER ED EXPANSION**  
 2100 SE BLUE PKWY • LEE'S SUMMIT, MO 64063

**PROJECT ENGINEER**

OWEN SELLE  
 owen.selle@excelengineer.com  
 (920) 926-3282  
 DRAWN BY: OLS

PROFESSIONAL SEAL

**SUBMITTAL DATES**

ISSUE DATE: NOV. 12, 2025

REVISIONS

**PROJECT NUMBER**

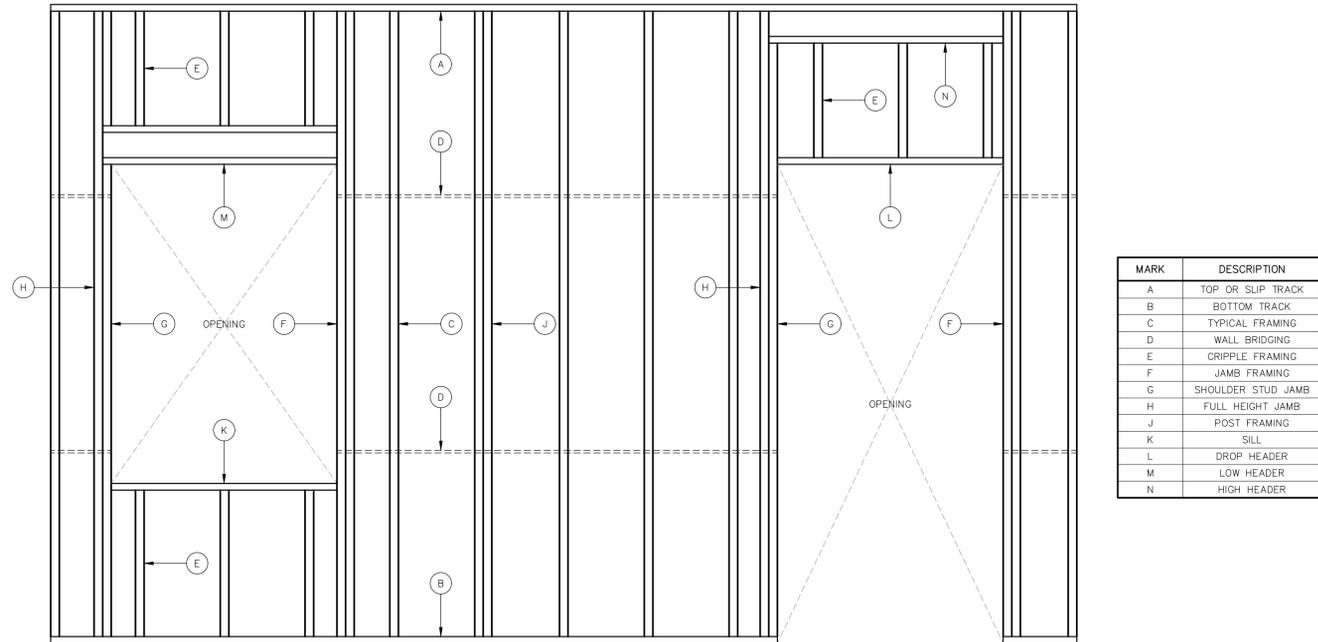
250361200

**SHEET INFORMATION**

SHEET NUMBER

C2

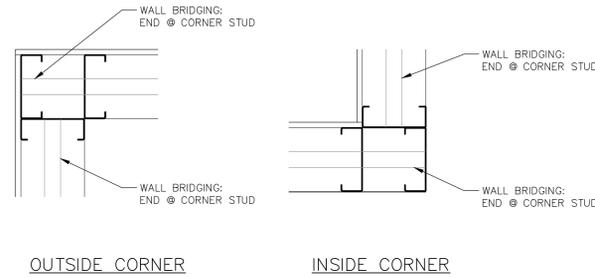
# TYPICAL FRAMING NOMENCLATURE



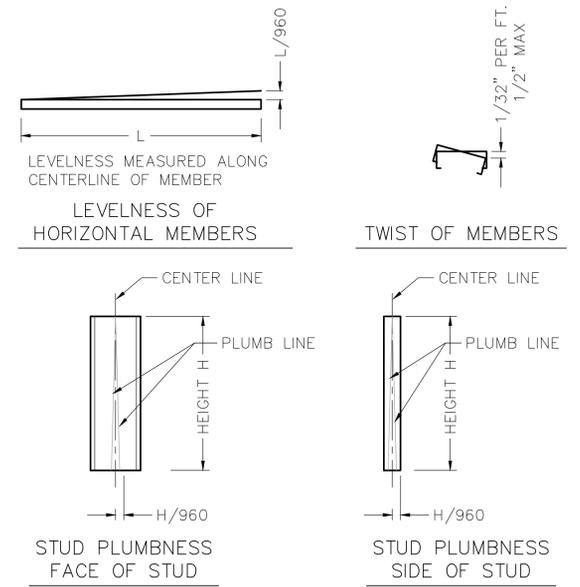
# GENERAL STUD INSTALLATION

## CORNER FRAMING

**CORNER CONSTRUCTION NOTES:**  
1.) PROVIDE (3) STUD CORNERS, TYP.



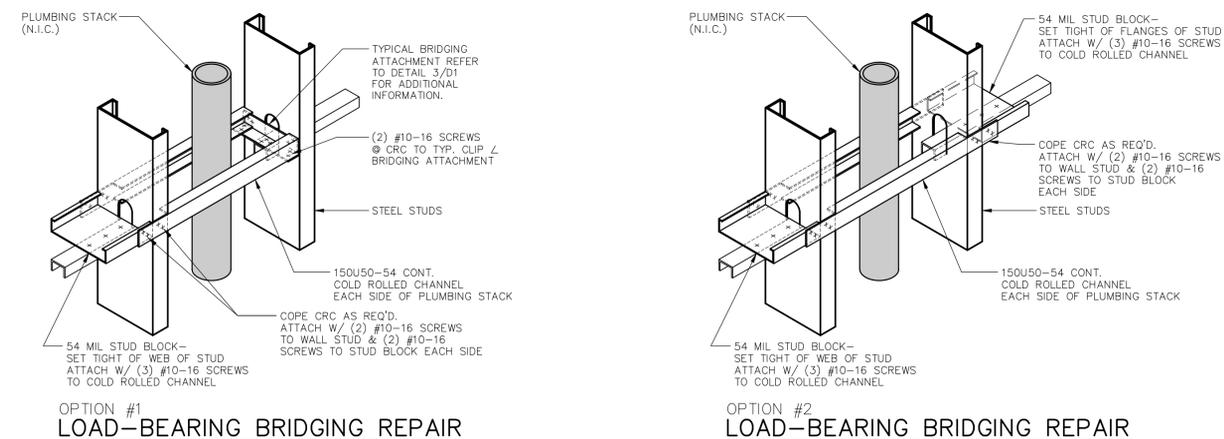
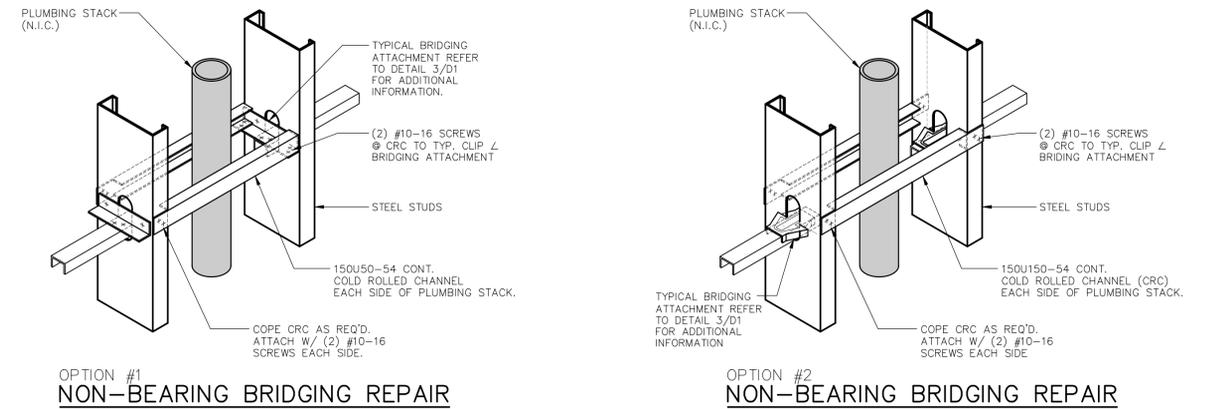
## BEARING, LEVELNESS, TWIST AND PLUMBNESS OF CFS FRAMING



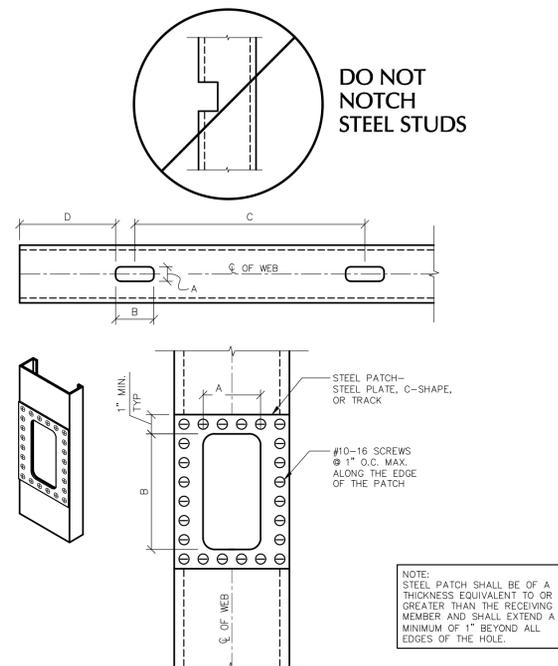
# FIELD REPAIRS

**G.C. NOTE:**  
C.F.S. FRAMING MEMBERS ARE STRUCTURAL AND SHOULD NOT BE DAMAGED. IF OTHER TRADES OR CONSTRUCTION ACTIVITIES RESULT IN DAMAGE TO C.F.S. FRAMING, THEN FIELD REPAIRS ARE NOT THE RESPONSIBILITY OF THE FRAMING CONTRACTOR. FIXES SHOWN ARE STRUCTURALLY REQUIRED AND ARE THE RESPONSIBILITY OF THE G.C. TO COORDINATE. FIELD FIXES THAT REQUIRE DETAILING AND/OR ANALYSIS WILL RESULT IN ADDITIONAL COSTS.

## CRC INTERRUPTION REPAIR



## HOLE REINFORCING



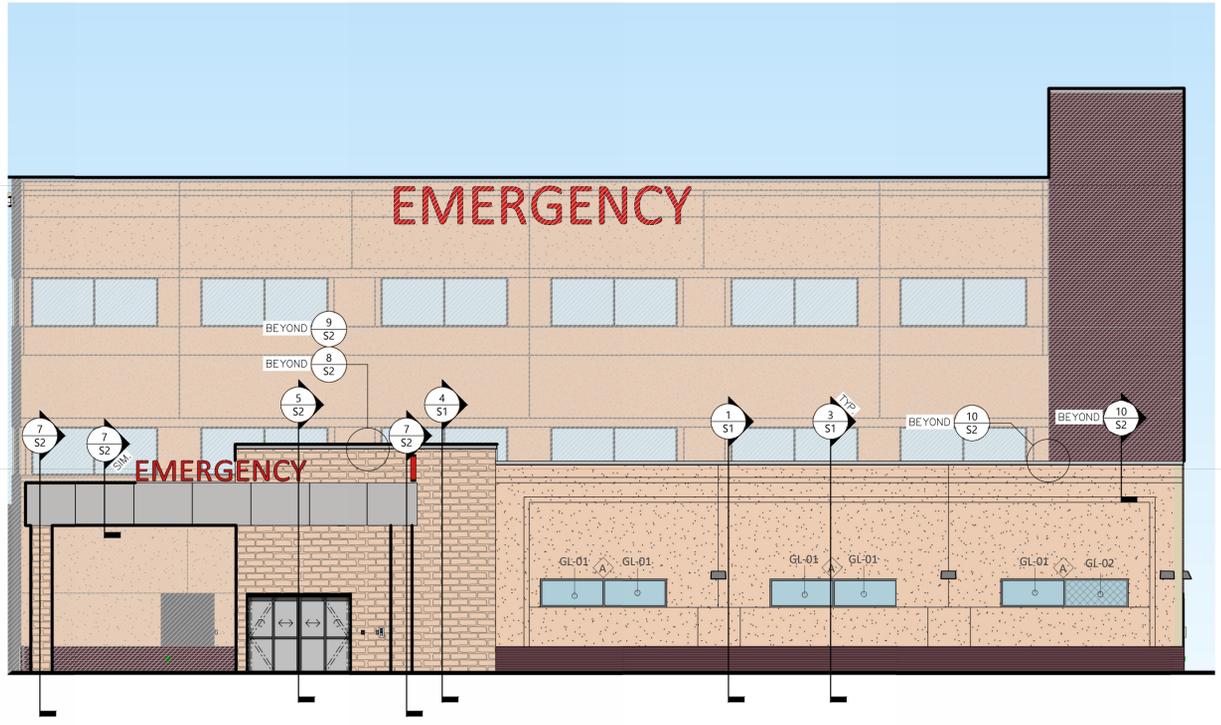
| STUD SIZE   | MAXIMUM HOLE DEPTH (A) | MAXIMUM HOLE LENGTH (B) | MINIMUM HOLE SPACING (C) | MINIMUM HOLE CLEAR EDGE DISTANCE (D) |
|-------------|------------------------|-------------------------|--------------------------|--------------------------------------|
| 3 5/8" STUD | 1 1/2"                 | 4 1/2"                  | 24"                      | 10"                                  |
| 6" STUD     | 1 1/2"                 | 4 1/2"                  | 24"                      | 10"                                  |
| 8" STUD     | 1 1/2"                 | 4 1/2"                  | 24"                      | 10"                                  |
| 10" STUD    | 1 1/2"                 | 4 1/2"                  | 24"                      | 10"                                  |
| 12" STUD    | 1 1/2"                 | 4 1/2"                  | 24"                      | 10"                                  |

\* BEARING WALLS ARE NOT ALLOWED TO HAVE HOLE REINFORCING W/O CONTACTING EXCEL ENGINEERING

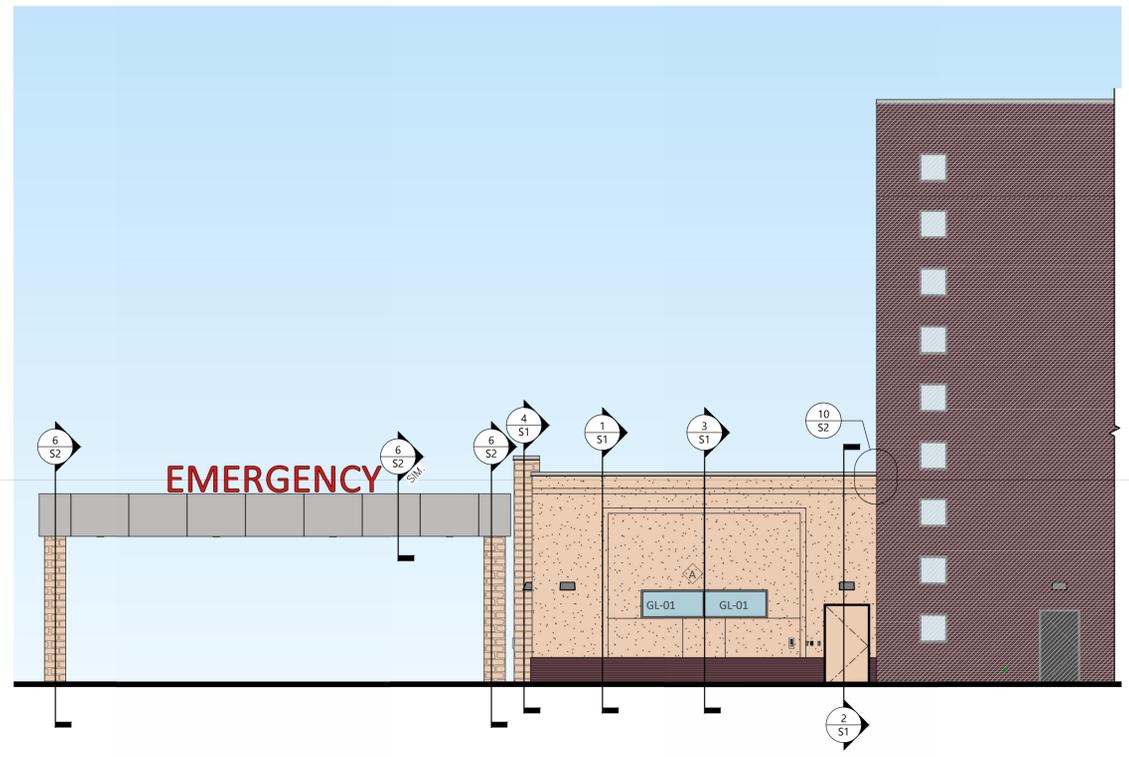
| STUD/JOIST SIZE | MAXIMUM HOLE DEPTH (A) | MAXIMUM HOLE LENGTH (B) | MINIMUM HOLE SPACING (C) | MINIMUM HOLE CLEAR EDGE DISTANCE (D) |
|-----------------|------------------------|-------------------------|--------------------------|--------------------------------------|
| 3 5/8" STUD     | 1 1/2"                 | 4 1/2"                  | 24"                      | 10"                                  |
| 6" STUD         | 2 1/2"                 | 4 1/2"                  | 24"                      | 10"                                  |
| 8" STUD         | 2 1/2"                 | 4 1/2"                  | 24"                      | 10"                                  |
| 10" STUD        | 2 1/2"                 | 4 1/2"                  | 24"                      | 10"                                  |
| 12" STUD        | 2 1/2"                 | 4 1/2"                  | 24"                      | 10"                                  |

| STUD/JOIST SIZE | MAXIMUM HOLE DEPTH (A) | MAXIMUM HOLE LENGTH (B) | MINIMUM HOLE SPACING (C) | MINIMUM HOLE CLEAR EDGE DISTANCE (D) |
|-----------------|------------------------|-------------------------|--------------------------|--------------------------------------|
| 3 5/8" STUD     | 2 3/8"                 | 4 1/2"                  | 24"                      | 10"                                  |
| 6" STUD         | 3 7/8"                 | 4 1/2"                  | 24"                      | 10"                                  |
| 8" STUD         | 5 3/16"                | 5 3/16"                 | 24"                      | 10"                                  |
| 10" STUD        | 6 1/2"                 | 6 1/2"                  | 24"                      | 10"                                  |
| 12" STUD        | 7 3/4"                 | 7 3/4"                  | 24"                      | 10"                                  |

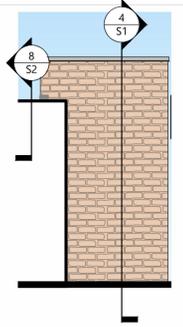
\* HOLE REQUIRED TO BE WITHIN THE CENTER 40% OF THE MEMBER SPAN.



**SOUTH ELEVATION** 1  
SCALE: N.T.S. REF.: 1/ AE201 E1

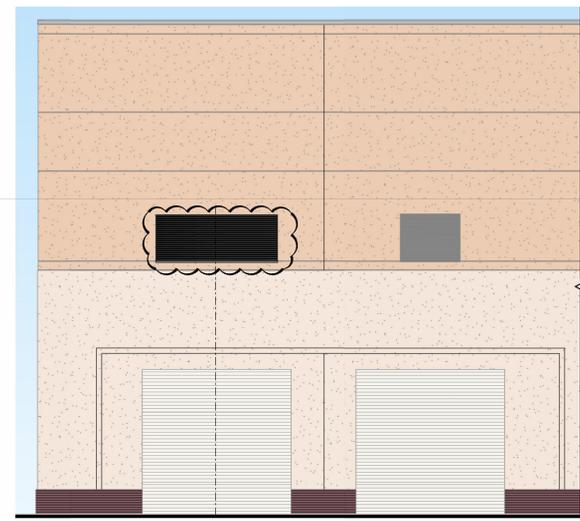


**EAST ELEVATION** 2  
SCALE: N.T.S. REF.: 2/ AE201 E1



**WEST ELEVATION** 4  
SCALE: N.T.S. REF.: 3/ AE201 E1

ARCH. / ENGINEER:  
PLEASE PROVIDE INFORMATION ON  
EXISTING WALL FRAMING AROUND  
NEW LOUVER IN ORDER FOR NEW  
FRAMING TO BE DESIGNED.



**AMBULANCE GARAGE  
NORTH ELEVATION** 3  
SCALE: N.T.S. REF.: 4/ AE201 E1

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PROFESSIONAL SEAL



**SUBMITTAL DATES**

ISSUE DATE NOV. 12, 2025

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|     |      |             |
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**PROJECT NUMBER**

250361200

**SHEET INFORMATION**

SHEET NUMBER

**E1**

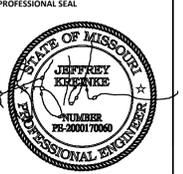
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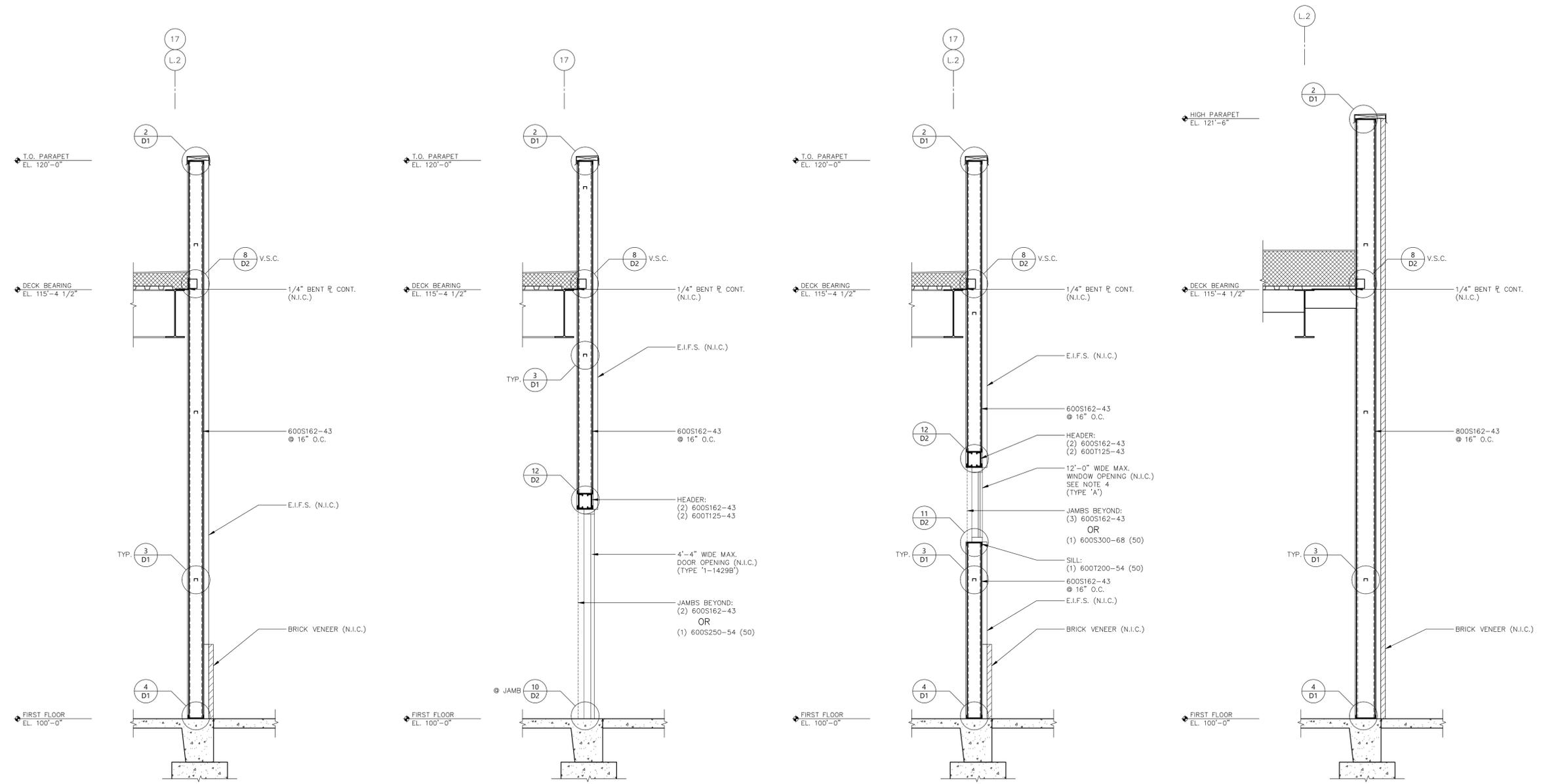
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**SHEET INFORMATION**

SHEET NUMBER

**S1**

- SECTION NOTES:**
- 1) ALL TRACK TO BE 1 1/4" FLANGE x 43 MIL, U.N.O.
  - 2) REFER TO SHEET C2 FOR APPROVED FASTENERS (P.D.F.'s, SCREWS, CONCRETE ANCHORS, ETC.)
  - 3) DIMENSIONS & ELEVATIONS ON EXCEL SHOP DRAWINGS ARE FOR REFERENCE ONLY. REFERENCE ARCHITECTURAL & STRUCTURAL.
  - 4) **GLAZING SYSTEM:**
    - A. CURTAINWALLS ARE ASSUMED TO SPAN VERTICALLY WITH LOAD TRANSFER THROUGH THE VERTICAL MULLIONS. STUD FRAMING HAS BEEN DESIGNED UTILIZING CALCULATED MULLION LOADS PER PROJECT DESIGN CRITERIA. PROVIDE JAMB STUDS IN ACCORDANCE WITH STANDARD CONSTRUCTION PRACTICE.
    - B. STOREFRONTS ARE ASSUMED TO SPAN VERTICALLY WITH LOAD TRANSFER THROUGH ANY INTERNAL VERTICAL MULLIONS. STOREFRONTS ARE ALSO ASSUMED TO BE ATTACHED ALONG THE LENGTH OF OUTSIDE VERTICAL MULLIONS.
    - C. WINDOWS HAVE BEEN DESIGNED ASSUMING TRIBUTARY LOAD DISTRIBUTION TO HEADER, SILL & JAMB ELEMENTS.
  - 5) **BRICK/MASONRY/STONE (B.M.S.):**
    - A. B.M.S. VENEER IS ASSUMED TO CONNECT UNIFORMLY TO ALL STUDS FOR LATERAL SUPPORT.
    - B. B.M.S. VENEER WEIGHT IS ASSUMED TO BE SUPPORTED INDEPENDENT OF THE COLD FORMED STEEL FRAMING (U.N.O.)
    - C. "\*" INDICATES CONNECTION DESIGNED TO SUPPORT B.M.S. VENEER WEIGHT.
    - D. ALL COLD FORMED STEEL FRAMING HAS BEEN DESIGNED FOR WALL CONSTRUCTION DEAD LOADS INCLUDING THE WEIGHT OF ANY ADHERED B.M.S. VENEER (U.N.O.)
  - 6) **METAL PANEL:**
    - A. METAL PANEL IS ASSUMED TO CONNECT UNIFORMLY TO ALL STUDS.
    - B. METAL PANEL IS ASSUMED TO ISOLATE STUDS FROM ANY THERMAL MOVEMENT OF THE METAL PANEL.
    - C. GC TO CONFIRM AND COORDINATE METAL PANEL ITEMS INCLUDING MINIMUM STUD THICKNESS REQUIREMENTS WITH METAL PANEL MANUFACTURER.
    - D. STUDS HAVE BEEN VALUE ENGINEERED PER PROJECT DESIGN CRITERIA.
  - 7) TO PROVIDE FOR VERTICAL MOVEMENT (PER PROJECT SPECIFICATIONS) A DEFLECTION HEAD BY WINDOW MANUFACTURER WILL BE REQUIRED WHERE NOTED.
  - 8) PROJECT ENGINEER TO VERIFY ALL CONNECTION LOCATIONS TO STRUCTURE. (SPECIFICALLY BEAM BOTTOM FLANGE SUPPORTS, IF DETAILED)
  - 9) ALL HEADER & SILL MEMBERS MUST SPAN ENTIRE LENGTH OF OPENING W/O SPLICES.
  - 10) SECTION PROFILES USED IN THIS SUBMITTAL ARE THOSE PUBLISHED BY SSMA/ SFA/ CSSA.



**WALL SECTION** 1  
SCALE: 1/2" = 1'-0"  
REF.: 2/ AE311 (ARCH)  
REF.: 3/ S201 (FDN)  
REF.: 10/ S301 (STR)

**DOOR SECTION** 2  
SCALE: 1/2" = 1'-0"  
SIM.: 2/ AE311 (ARCH)  
REF.: 3/ S201 (FDN)  
REF.: 10/ S301 (STR)

**WINDOW SECTION** 3  
SCALE: 1/2" = 1'-0"  
REF.: 1/ AE311 (ARCH)  
REF.: 3/ S201 (FDN)  
REF.: 10/ S301 (STR)

**WALL SECTION** 4  
SCALE: 1/2" = 1'-0"  
SIM.: 3/ AE311 (ARCH)  
REF.: 3/ S201 (FDN)  
REF.: 10/ S301 (STR)

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Table with 2 columns: REVISIONS, and empty rows for tracking changes.

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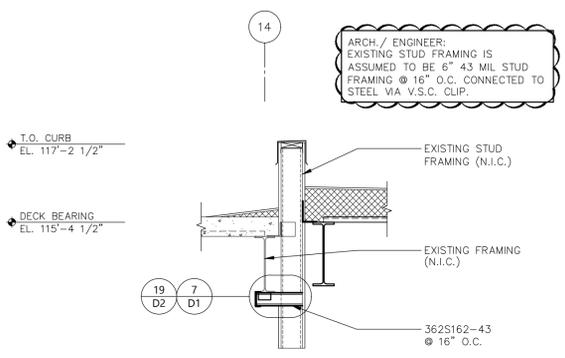
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**SHEET INFORMATION**

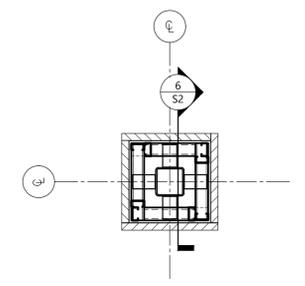
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**S2**

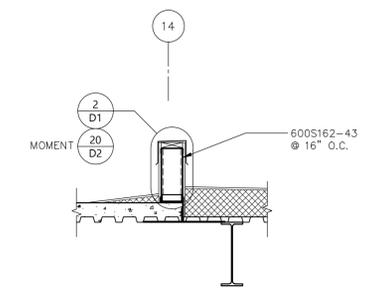
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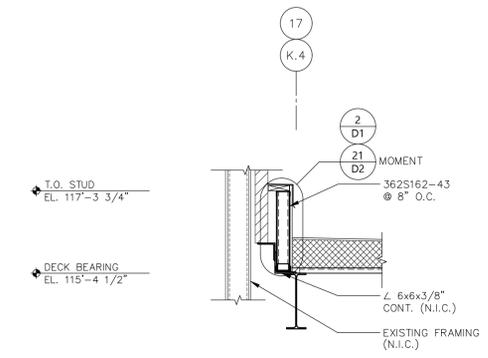
**EXISTING STUDS CURB SECTION**  
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REF.: 5/ AE532 (ARCH)  
REF.: 12/ S301 (STR)



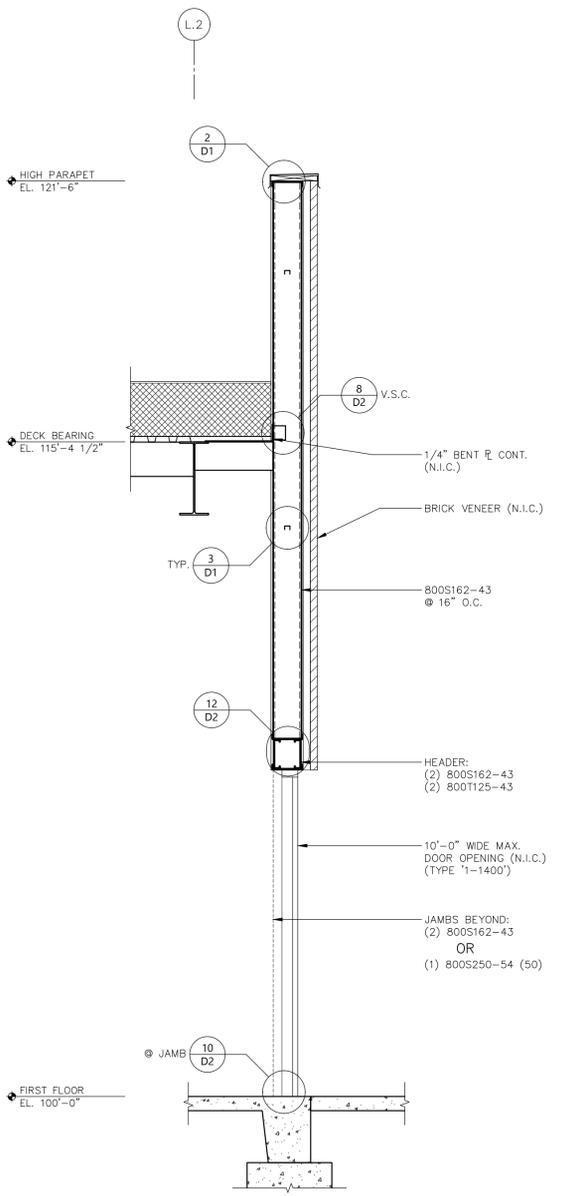
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REF.: 12/ S301 (STR)



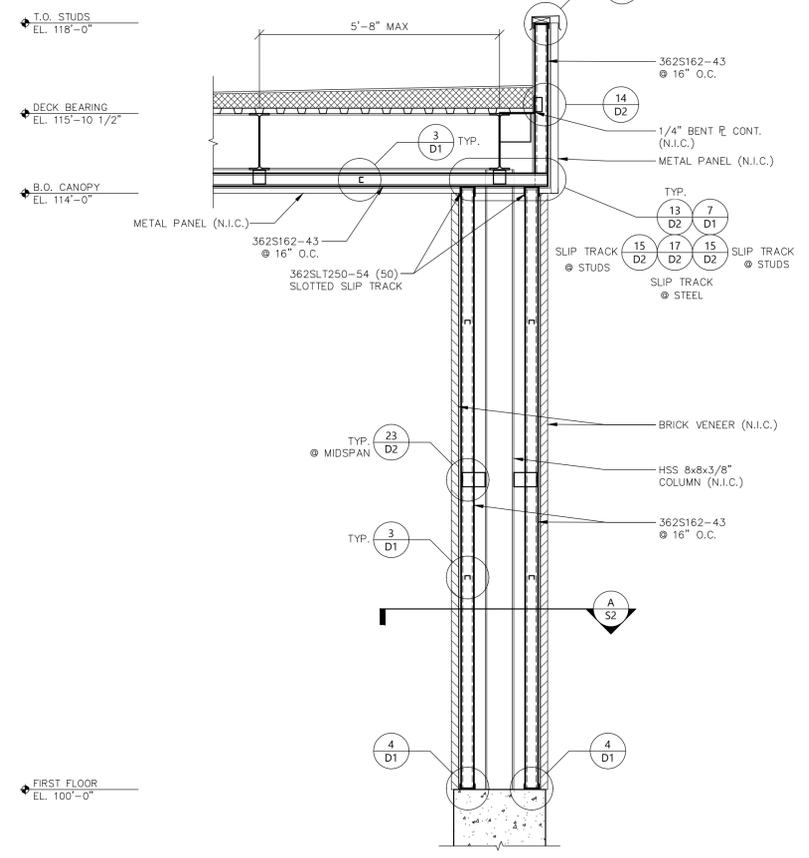
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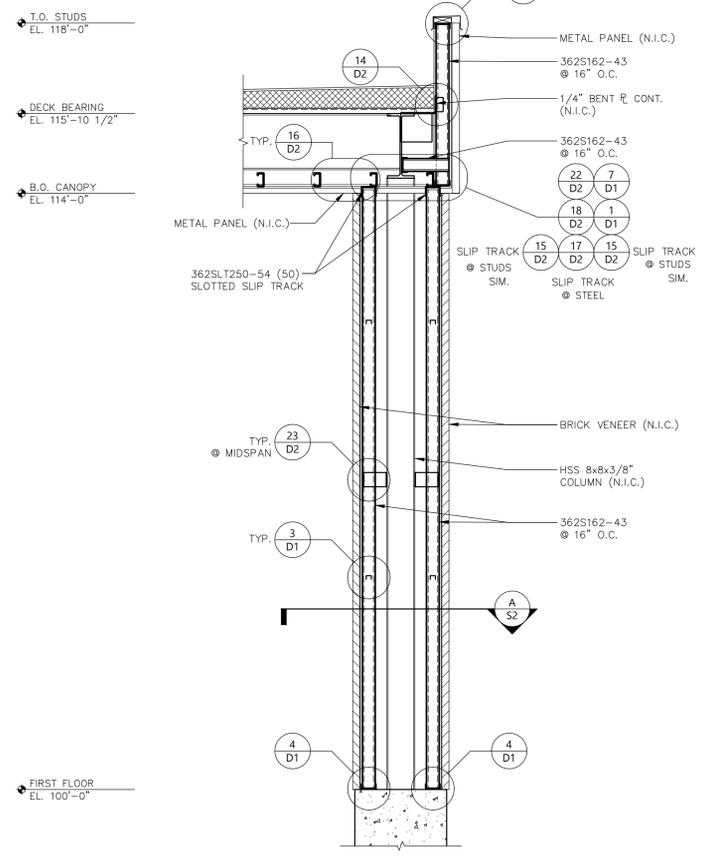
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**WALL SECTION**  
SCALE: 1/2" = 1'-0"  
REF.: 3/ AE311 (ARCH)  
REF.: 3/ S201 (FDN)  
REF.: 10/ S301 (STR)



**CANOPY SECTION**  
SCALE: 1/2" = 1'-0"  
REF.: 6/ AE450 (ARCH)  
REF.: 12/ S201 (FDN)  
REF.: 10/ S301 (STR)



**CANOPY SECTION**  
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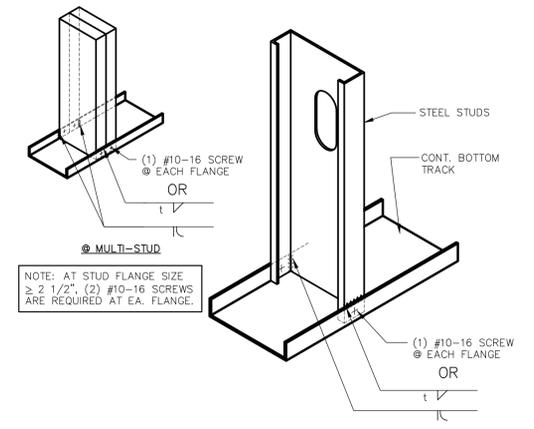
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250361200

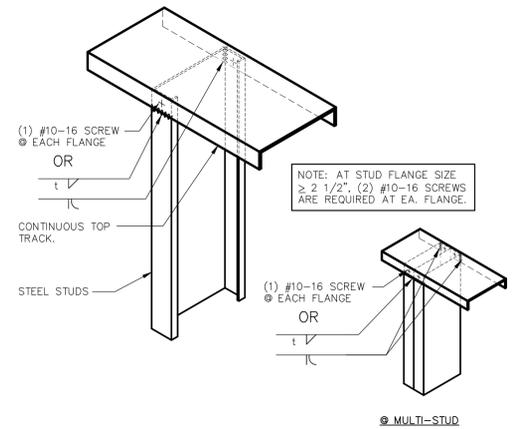
SHEET INFORMATION

SHEET NUMBER

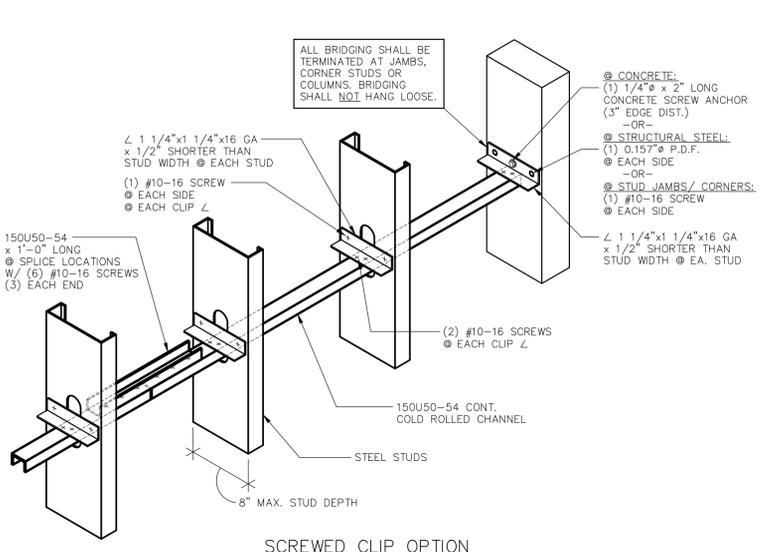
**D1**



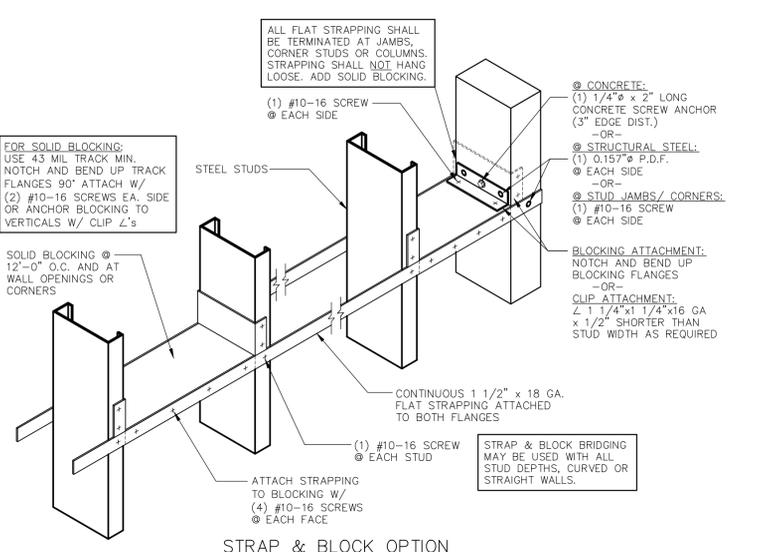
STUD TO TRACK CONNECTION 1 D1



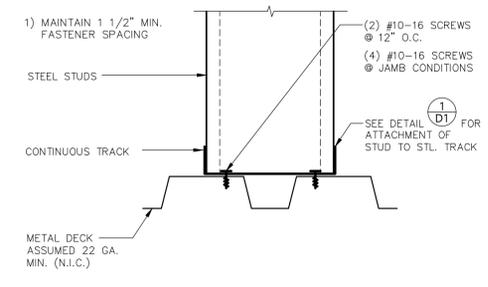
STUD TO TRACK CONNECTION 2 D1



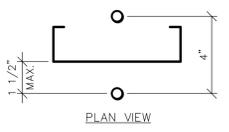
SCREWED CLIP OPTION



STRAP & BLOCK OPTION



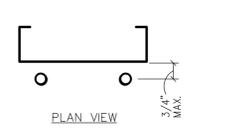
BASE DETAIL @ METAL DECK



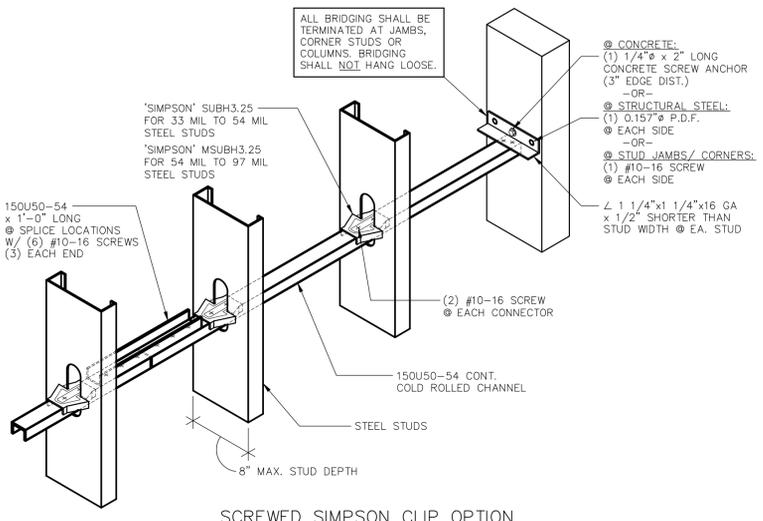
PLAN VIEW



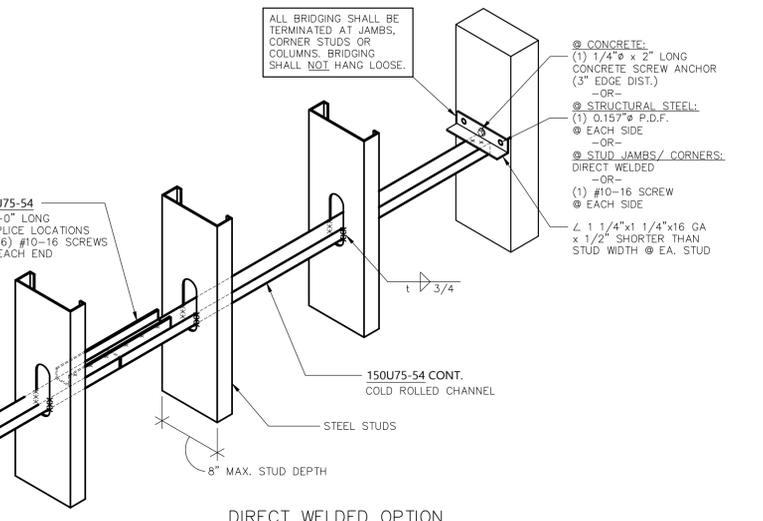
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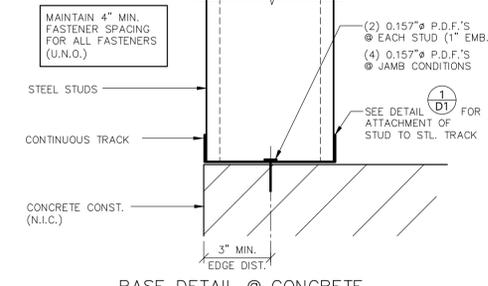
PLAN VIEW



SCREWED SIMPSON CLIP OPTION

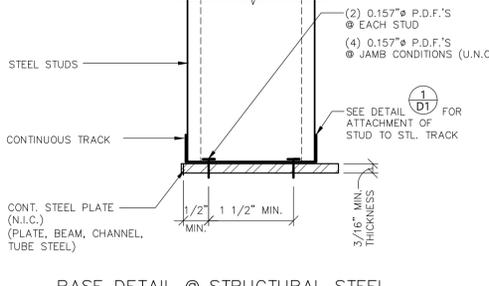


DIRECT WELDED OPTION



BASE DETAIL @ CONCRETE

TYPICAL BASE DETAILS

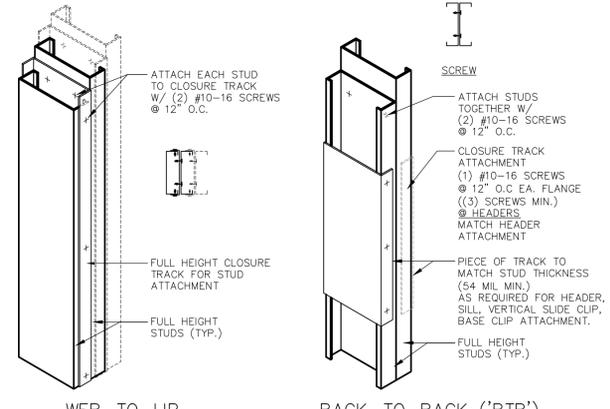


BASE DETAIL @ STRUCTURAL STEEL

4 D1

ALL BRIDGING VERTICAL SPACING @ 72" O.C. MAX. (U.N.O.)

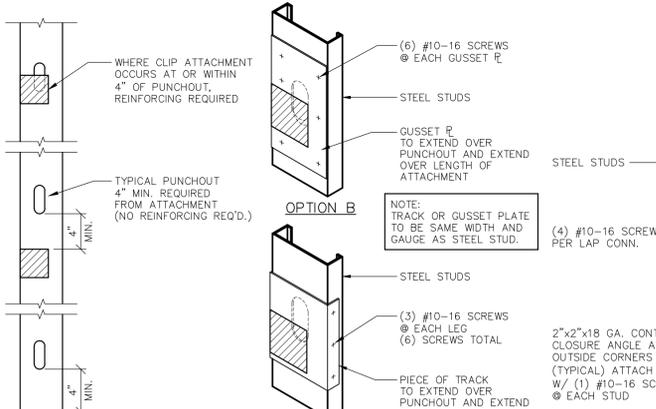
BRIDGING ATTACHMENT OPTIONS 3 D1



STUD CONFIGURATION

CONTRACTOR'S OPTION (U.N.O.)

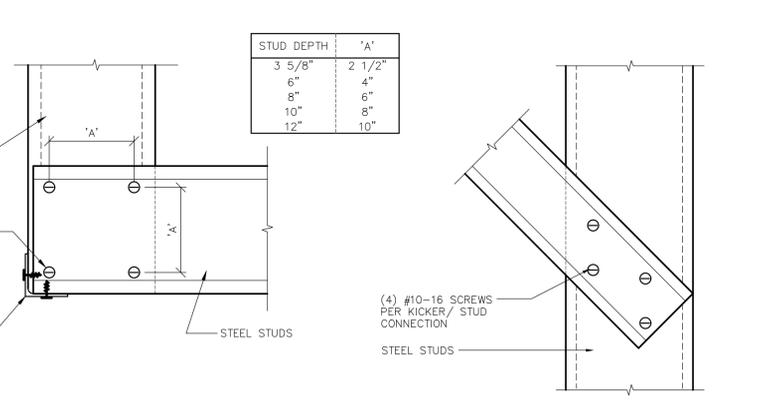
5 D1



PUNCHOUT REINFORCING

(6" MIN. LENGTH FOR TRACK OR GUSSET PLATE)  
FIELD DETAIL AS REQUIRED

6 D1



LAP CONNECTIONS

7 D1

| STUD DEPTH | 'A'    |
|------------|--------|
| 3 5/8"     | 2 1/2" |
| 6"         | 4"     |
| 8"         | 6"     |
| 10"        | 8"     |
| 12"        | 10"    |

PROJECT INFORMATION

PROJECT CONTRACTOR  
**E & K OF KANSAS CITY, INC.**  
4001 E 143RD STREET  
GRANDVIEW, MO 64030

COLD-FORMED STEEL SUBMITTAL FOR  
**HCA LEES SUMMIT MEDICAL CENTER ED EXPANSION**  
2100 SE BLUE PKWY • LEE'S SUMMIT, MO 64063

PROJECT ENGINEER

**OWEN SELLE**  
owen.selle@excelengineer.com  
(920) 926-3282  
DRAWN BY: OLS

PROFESSIONAL SEAL



SUBMITTAL DATES

ISSUE DATE **NOV. 12, 2025**  
REVISIONS

PROJECT NUMBER

250361200

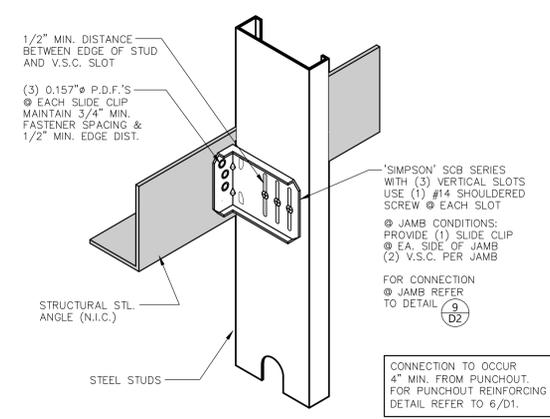
SHEET INFORMATION

SHEET NUMBER

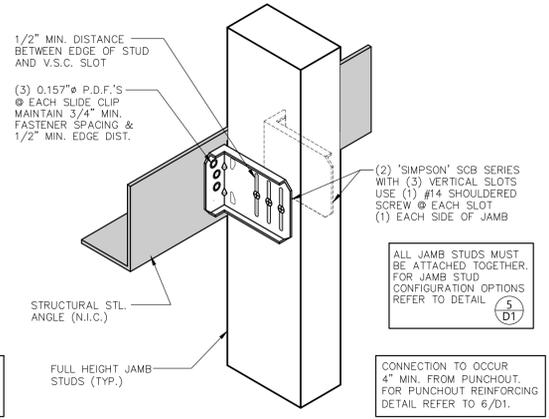
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PROJECT INFORMATION

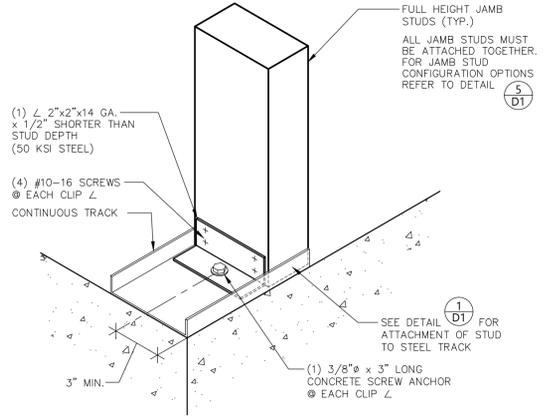
2025 © EXCEL ENGINEERING, INC.



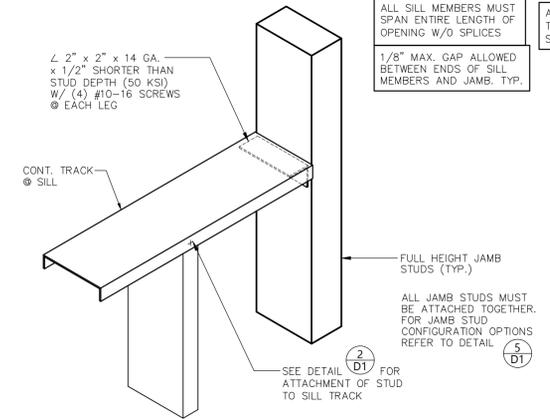
**V.S.C. DETAIL**  
V.S.C. = VERTICAL SLIDE CLIP  
INSTALL PER MFG. SPECIFICATIONS



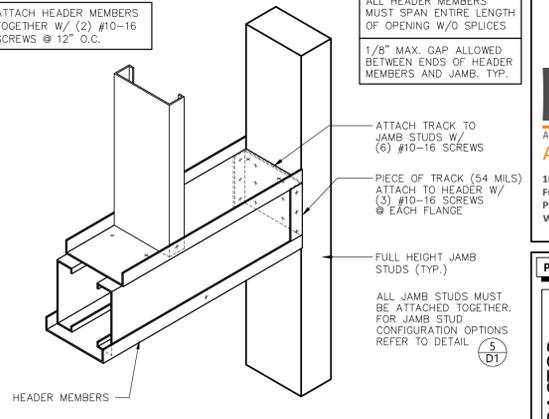
**V.S.C. DETAIL @ JAMB**  
V.S.C. = VERTICAL SLIDE CLIP  
INSTALL PER MFG. SPECIFICATIONS



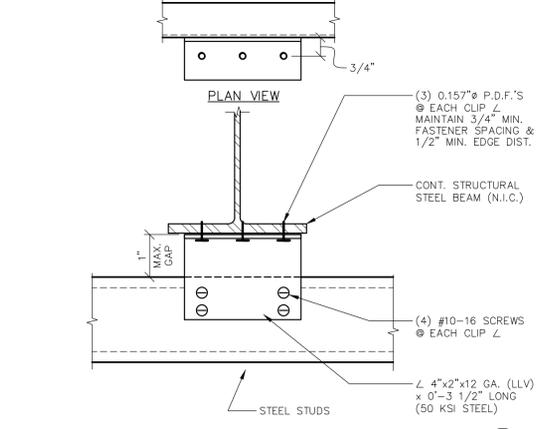
**JAMB BASE DETAIL**



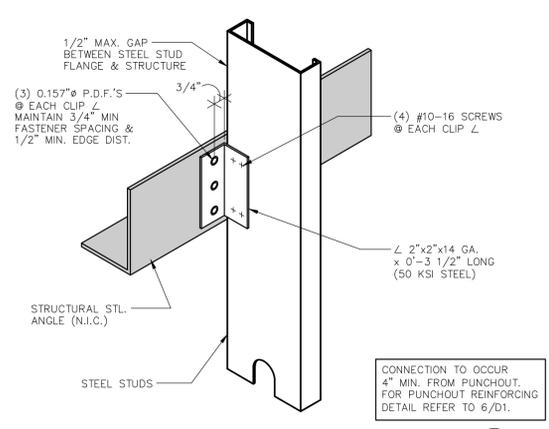
**SILL - JAMB DETAIL**



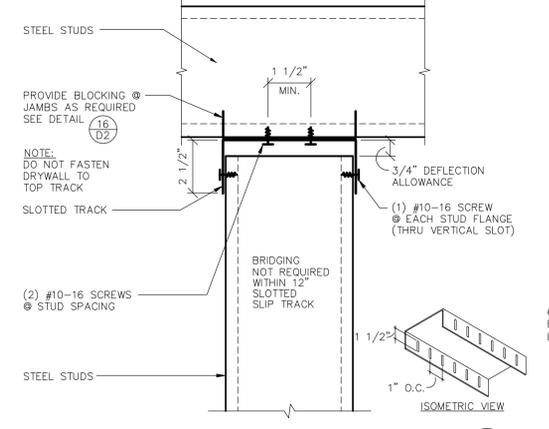
**HEADER - JAMB DETAIL**



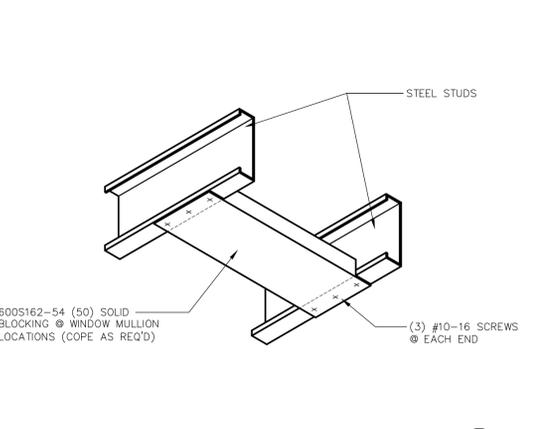
**CONNECTION DETAIL**



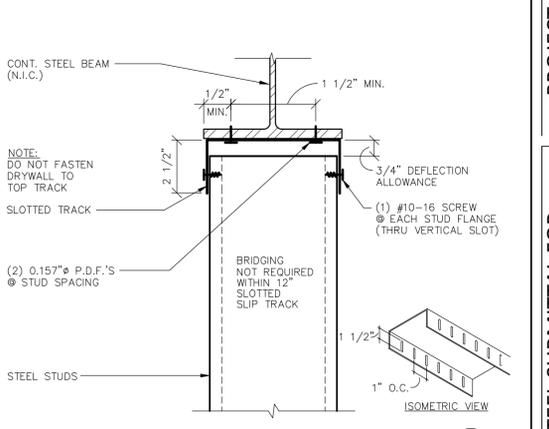
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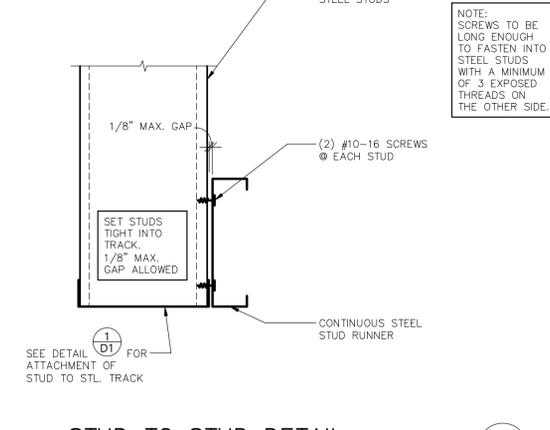
**SLOTTED TRACK TO METAL STUD**



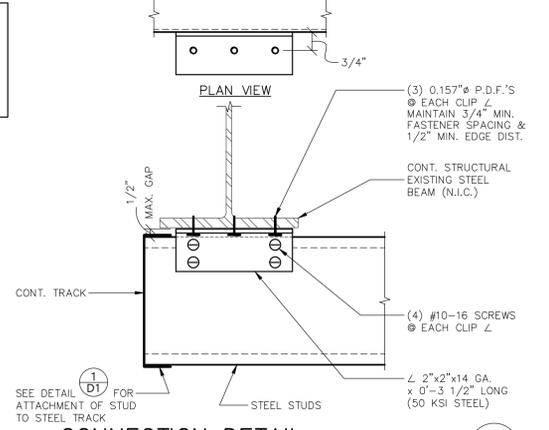
**BLOCKING DETAIL**



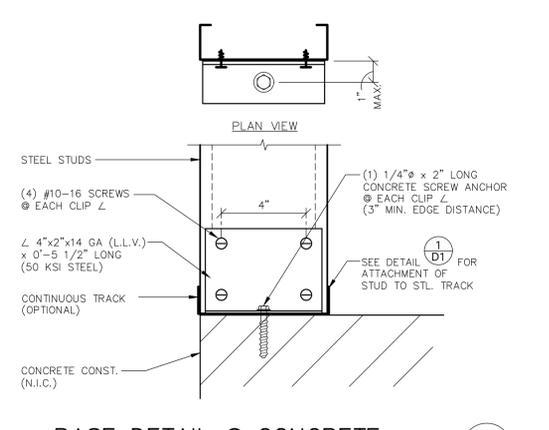
**SLOTTED TRACK TO STEEL BEAM**



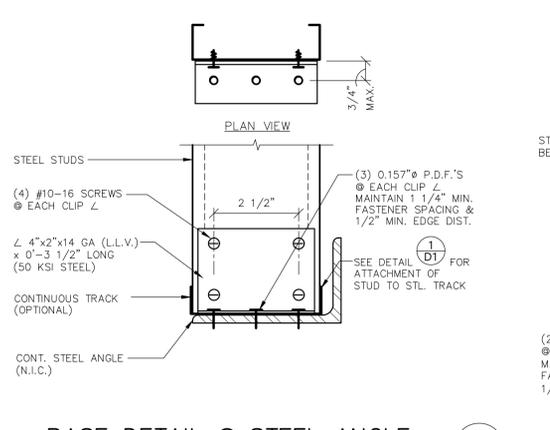
**STUD TO STUD DETAIL**



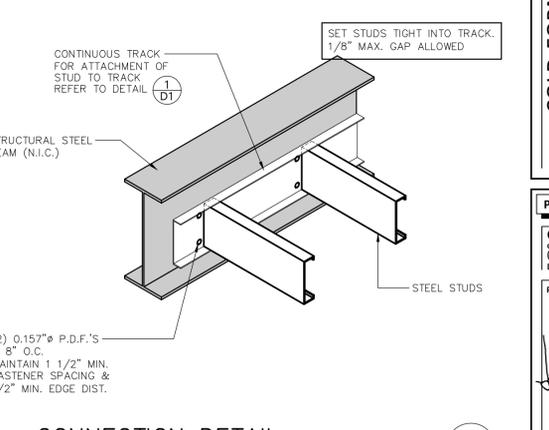
**CONNECTION DETAIL**



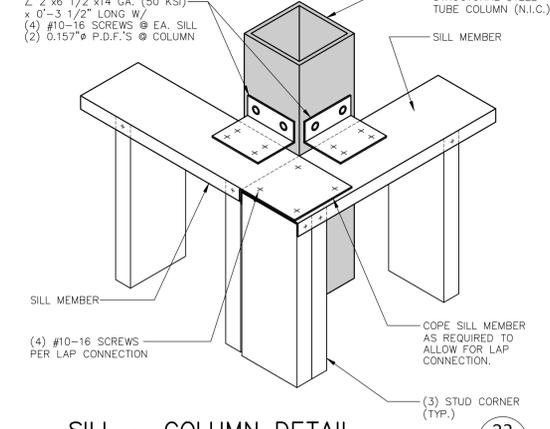
**BASE DETAIL @ CONCRETE**  
MOMENT BASE CONNECTION



**BASE DETAIL @ STEEL ANGLE**  
MOMENT BASE CONNECTION



**CONNECTION DETAIL**



**SILL - COLUMN DETAIL**

Built-in cover page

# 092216-1.2.B-0:Non-Structural Metal Framing - Product Data



|                               |   |
|-------------------------------|---|
| <b>Status</b>                 | <b>Open</b> Submitted                                       |
| <b>Spec section</b>           | 092216 NON-STRUCTURAL METAL FRAMING                         |
| <b>Manager</b>                | <b>Ryan Schelin</b> (Je Dunn Construction Company (013735)) |
| <b>Responsible contractor</b> | <b>Braden Engelken</b> (E & K Of Kansas City Inc (019435))  |
| <b>Reviewers step 01</b>      | <b>Ryan Schelin</b> (Je Dunn Construction Company (013735)) |

515 E. Locust St, Suite 301  
Des Moines, IA 50309  
tel 515.698.4400  
fax 515.288.3049

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Reviewed by JE Dunn: Ryan Schelin

Date: 11/20/2025 9:04:41 AM

Job: LSMC ED Expansion

Submittal ID: 092216

Bid Package: 100% CD's

Comments: Reviewed - Submitted for Approval



- Reviewed
- Revise and Resubmit
- Submit Specified Item
- Not Reviewed by General Contractor
- Review Not Required by the Contract Documents
- Furnish as Corrected
- Rejected

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work in a safe and satisfactory manner

Signed jvelazquez

Date 12/3/2025

**INCLUDE AS PART OF YOUR DEFERRED SUBMITTAL TO AHJ FOR LIGHT GAGE METAL STUD FRAMING DESIGN AND ENGINEERING.**