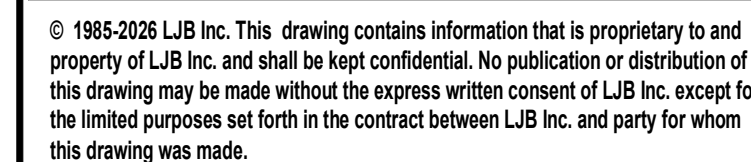


AXIUM BTS EXPANSION - ST. PETERS

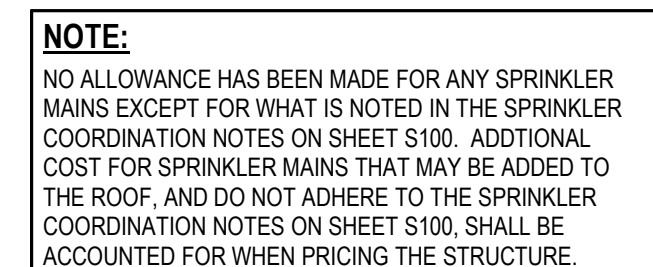
~~PEAK CONSTRUCTION~~

1. REFERENCE FINISH FLOOR ELEVATION OF 100'-0" IS USED ON THE STRUCTURAL DRAWINGS. ALL ELEVATIONS ARE REFERENCED FROM THIS ELEVATION.
2. INSTALL CORNER ANGLE "1" WITH 4-5/8" DIA. EXPANSION OR SCREW ANCHORS, WITH MIN. EMBEDMENT PER SHEET S100. JUST BELOW ROOF DECK AND AT MID-HEIGHT OF PANELS. TYPICAL ALL 90° CORNERS AS SHOWN.
3. PERPENDICULAR TO 2, 1/2" X 3/4" JOISTS VERTICAL UP AT JOIST BEARING WALLS AND VERTICAL LED DOWN AT JOIST GIRDER/BEAM/DECK BEARING WALLS. WELD CORNERS AND BUTT WELD SPICES TO MAKE CONTINUOUS.
4. WALL BRACE ANGLE 2 1/2" X 1/2" X 3/16X20" TYPICAL EACH END EACH BAY.
5. JOISTS AND JOIST GIRDERS SHALL BE DESIGNED FOR THE NET UPLIFT AS SHOWN IN THE DIAGRAMS (ON SHEET S310).
6. "X" DENOTES LOCATION OF BOTTOM CHORD EXTENSIONS.
7. BOLTED DIAGONAL BRIDGING NOT REQUIRED
8. WELDED DIAGONAL BRIDGING NOT APPLICABLE TO HORIZONTAL BRIDGING IS REQUIRED WHERE SHOWN BY
9. VERIFICATION OF EXACT BRIDGING AND BOTTOM CHORD EXTENSION REQUIREMENTS IS THE RESPONSIBILITY OF THE MANUFACTURER. DESIGN OF THE FRAMING SHALL BE COORDINATED WITH THE SPRINKLER DRAWINGS SO THAT JOISTS, GIRDERS, BOTTOM CHORD EXTENSIONS, AND BRIDGING DO NOT INTERFERE WITH SPRINKLER PIPING.
10. JOIST SEATS AT BEARING WALLS SHALL BE DESIGNED FOR A LATERAL ROLL-OVER SEISMIC FORCE (0.7E) OF 1990 LB. OR WIND FORCE (0.6W) OF 1140 LB. APPLIED AT THE TOP OF THE JOIST AND TRANSFERRED TO THE BEARING SURFACE.
11. JOISTS BEARING ON WALL PANELS SHALL BE DESIGNED FOR AN AXIAL SEISMIC FORCE (0.7E) OF 1550 LB. OR WIND FORCE (0.6W) OF 4300 LB. THAT SHALL BE TRANSFERRED FROM THE WALL PANEL IN THE JOISTS.
12. TOP CHORD CONNECTIONS TO 11.1 SHALL BE DESIGNED FOR AN AXIAL TENSION OR COMPRESSION SEISMIC FORCE (0.7E) OF 48,300 LBS. AND WIND FORCE (0.6W) OF 39,000 LB. IN COMBINATION WITH DEAD AND ROOF LIVE LOAD.
13. JOISTS WITH A SPAN LESS THAN 45'-0" SHALL BE DESIGNED FOR A DOWNWARD WIND PRESSURE (0.6W) OF 9.6 PSF. THE TULL DESIGNATION SHOWN ON JOISTS DOES NOT INCLUDE ANY DOWNWARD WIND PRESSURE.
14. ALL JOIST SHOES ARE 5" DEEP.
15. ALL LH JOIST SHOES ARE 5" DEEP.
16. ALL JOIST GIRDER SHOES ARE 1 1/2" DEEP.
17. ALL ELEVATIONS ARE TO JOIST BEARING UNLESS NOTED OTHERWISE.
18. COORDINATE FRAMING PLAN(S) AND DETAILS WITH WALL PANEL LAYOUTS AND DETAILS.
19. JOISTS AND JOIST GIRDERS SHALL BE DESIGNED FOR A DEFLECTION OF L/360 FOR DEAD AND LOAD FOR TOTAL LOAD IN FINISH AREA. ALLOW FOR A DEFLECTION OF L/240 FOR LIVE LOAD AND L/180 FOR TOTAL LOAD FOR THE REMAINDER OF THE JOIST. JOIST DESIGNATION REPRESENTS TOTAL LOAD/LIVE LOAD.
20. SPECIAL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED FOR THE LOADS SHOWN IN THE LOADING DIAGRAMS ON SHEET S310.
21. LOADS INDICATED ON PLANS FOR MECHANICAL UNITS ARE IN ADDITION TO THE DESIGN LOADS. SEE JOIST DIAGRAMS, AND JOIST GIRDER PANEL POINT LOADS.
22. HATCHED AREA INDICATES FUTURE RTU ZONE. DESIGNER TO DESIGN EACH JOIST FOR AN ADDITIONAL 2000 LB. POINT LOAD WITHIN THE FUTURE RTU ZONE.
23. ALL JOISTS SHALL BE DESIGNED FOR A TOP CHORD AXIAL SEISMIC FORCE (0.7E) OF 1550 LB. JOIST SHOES AT BEARING WALLS SHALL BE DESIGNED WITH THE TOP FORCE APPLIED AT BOTTOM OF THE SHOE AND TRANSFERRED TO TOP CHORD.
24. "*" DENOTES LOCATION WHERE JOIST SEISMIC CONTINUITY PLATE CONNECTION REQUIRED PER S55/S312.



PROJECT NO:	0129388A.00
DRAWN BY:	RMS
CHECKED BY:	OWJ
SHEET NAME	

S300

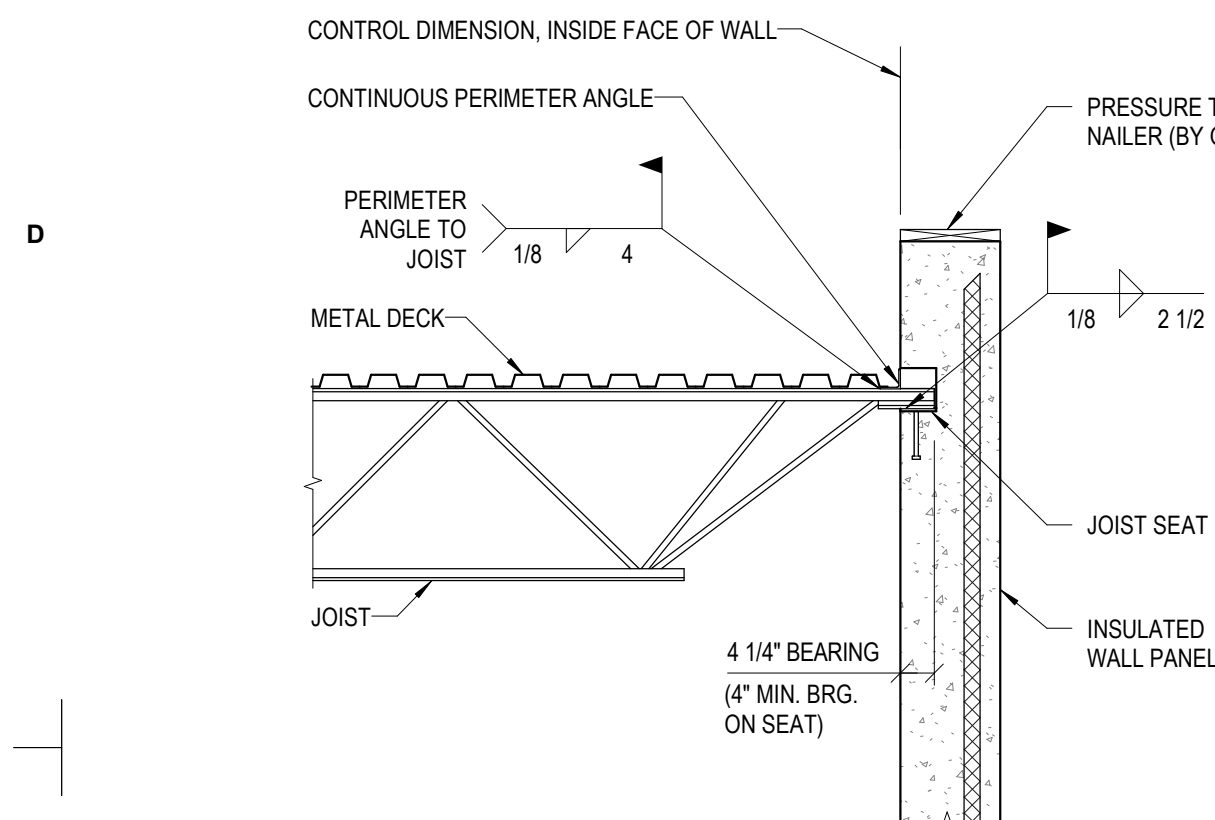


AXIUM BTS EXPANSION - ST. PETERS

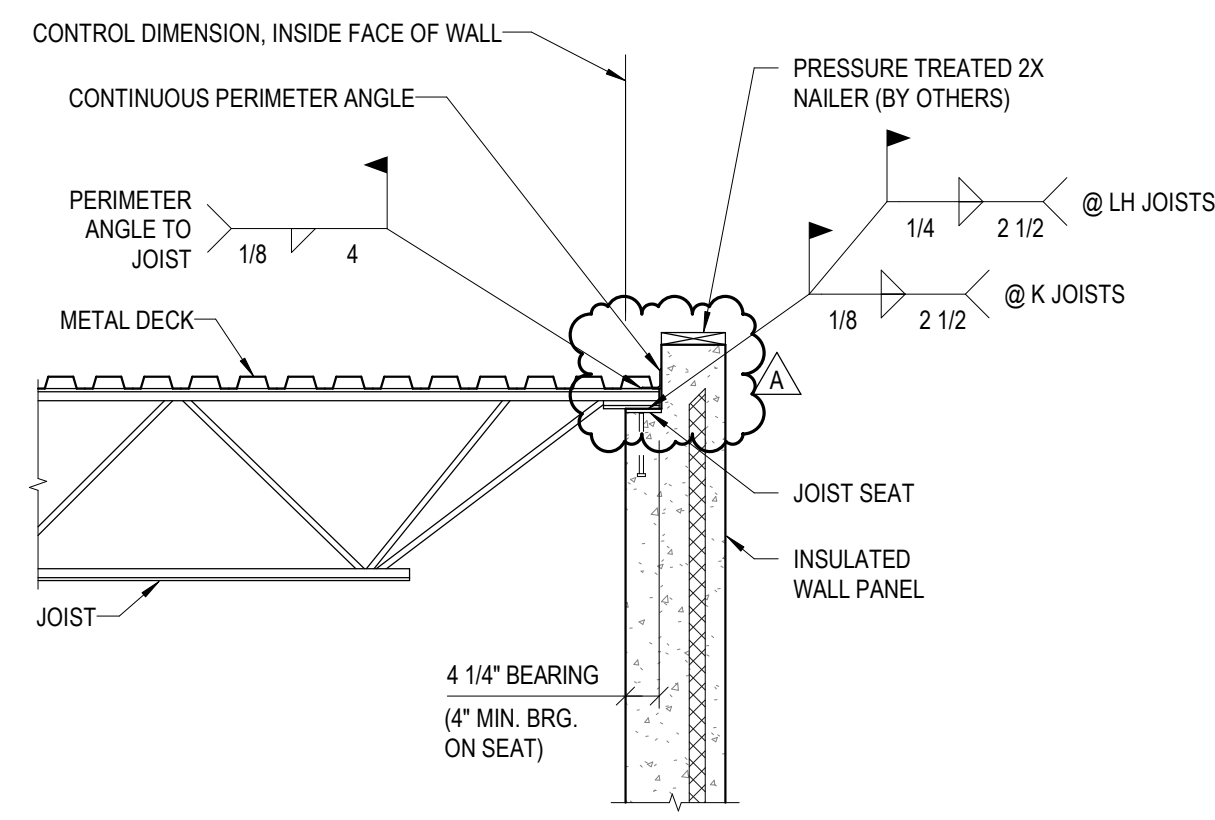
~~PEAK CONSTRUCTION~~

S301

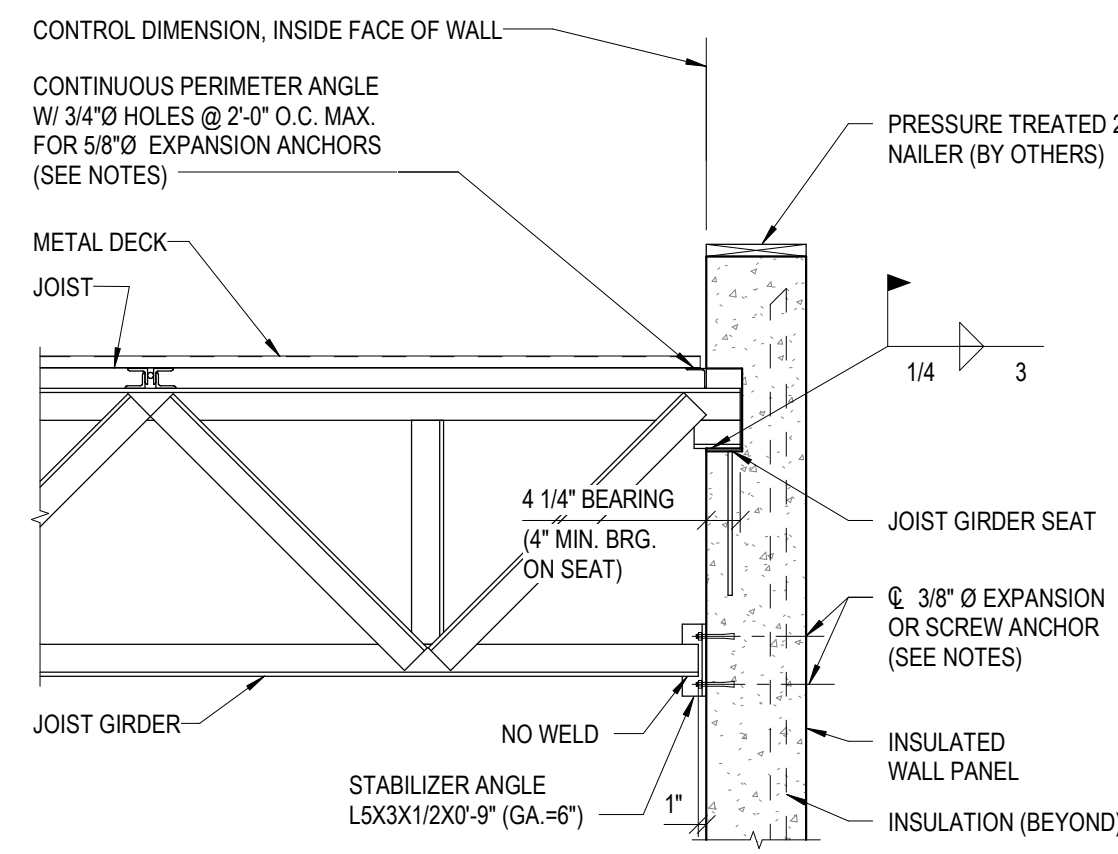




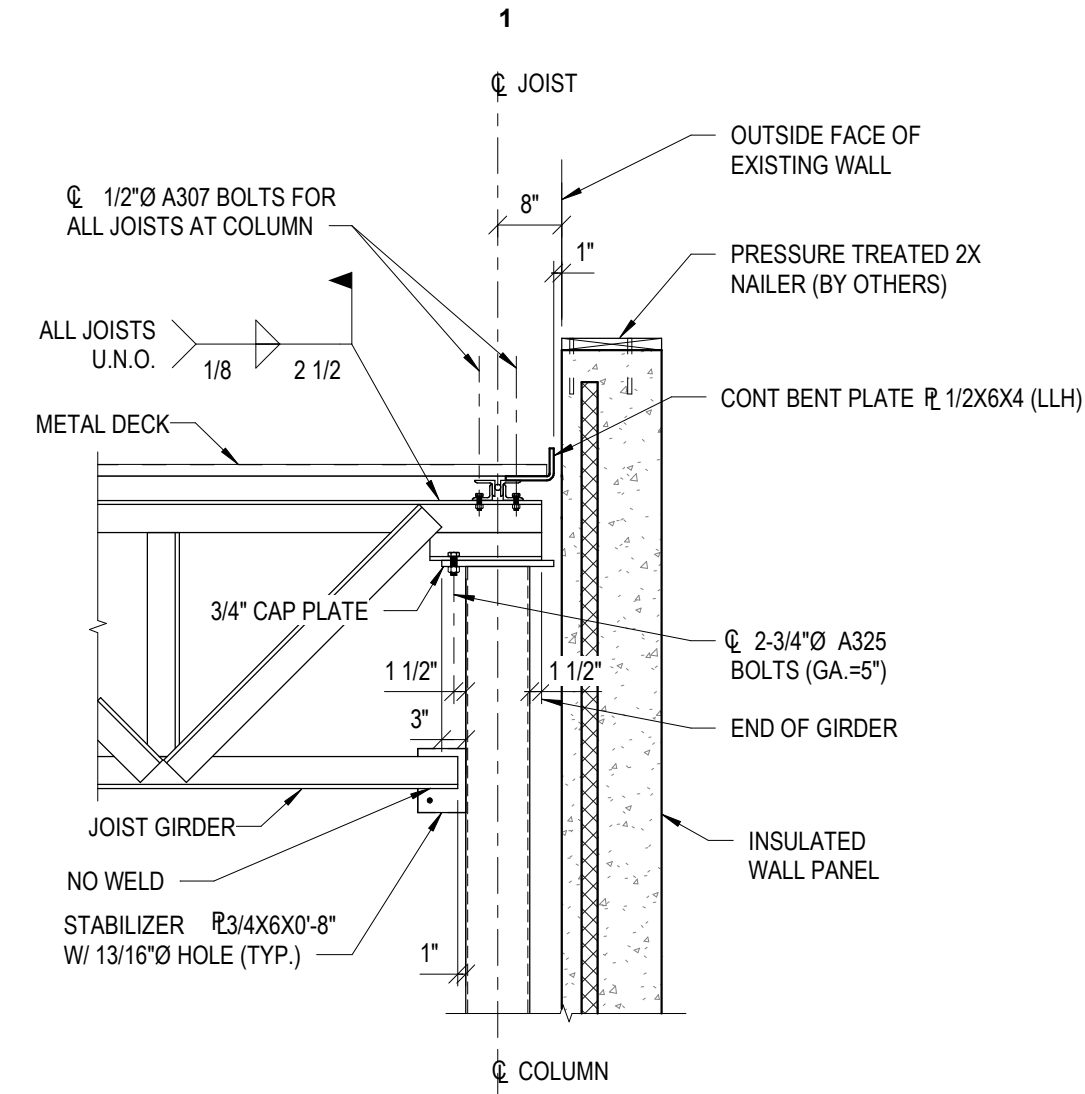
S1 JOIST WALL BEARING SECTION
S300, S301 SCALE: NOT TO SCALE



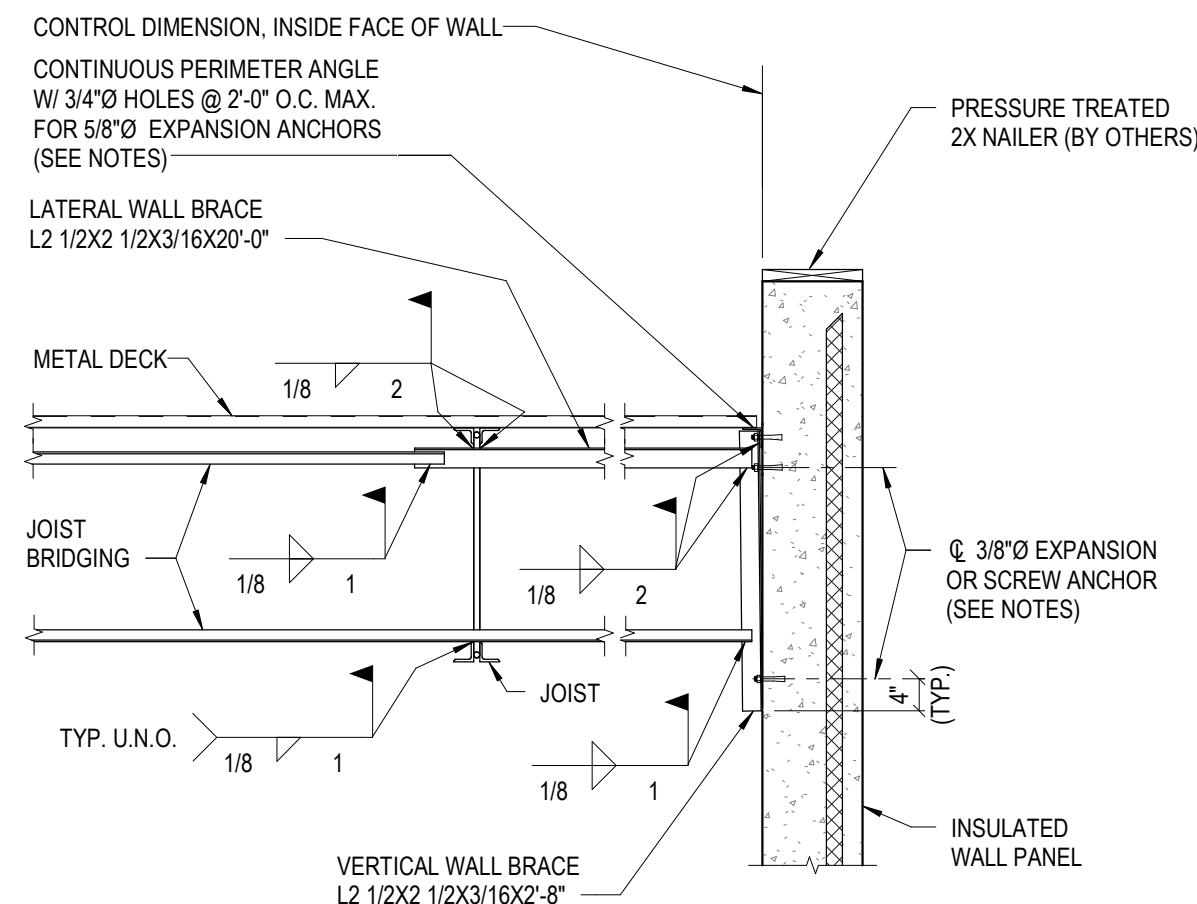
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S300 SCALE: NOT TO SCALE



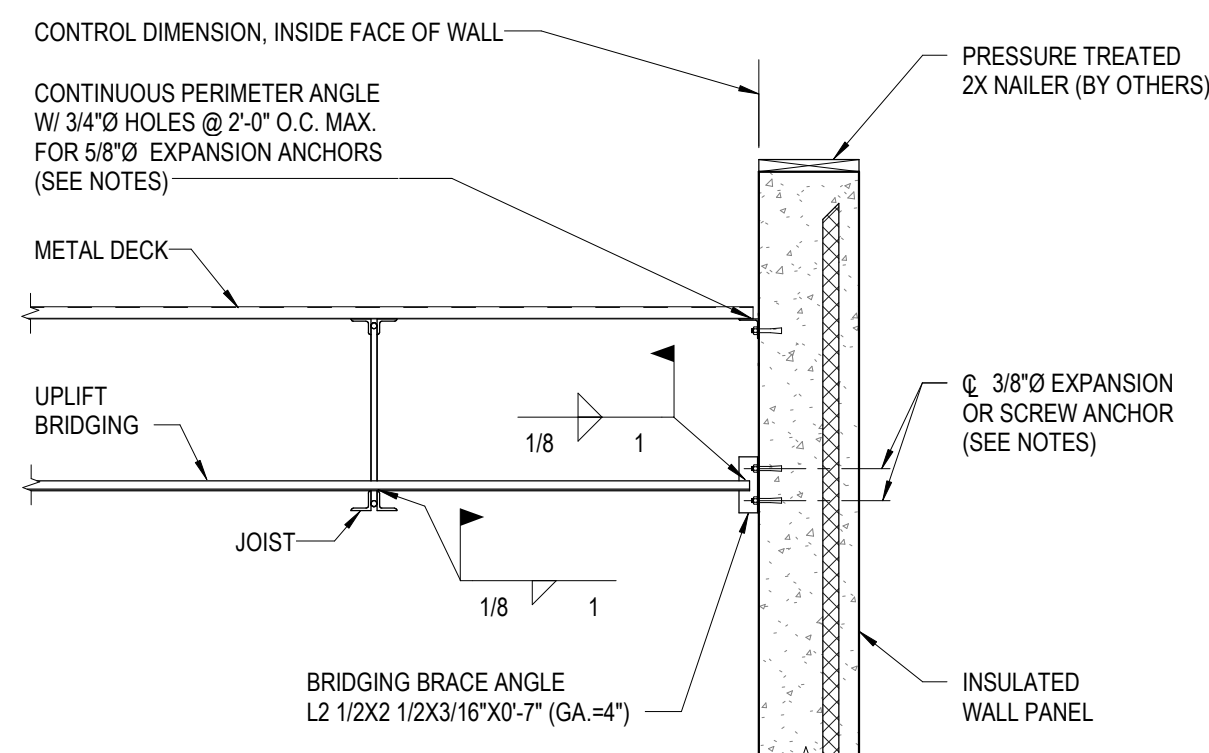
S15 JOIST GIRDER WALL BEARING SECTION
S300, S301 SCALE: NOT TO SCALE



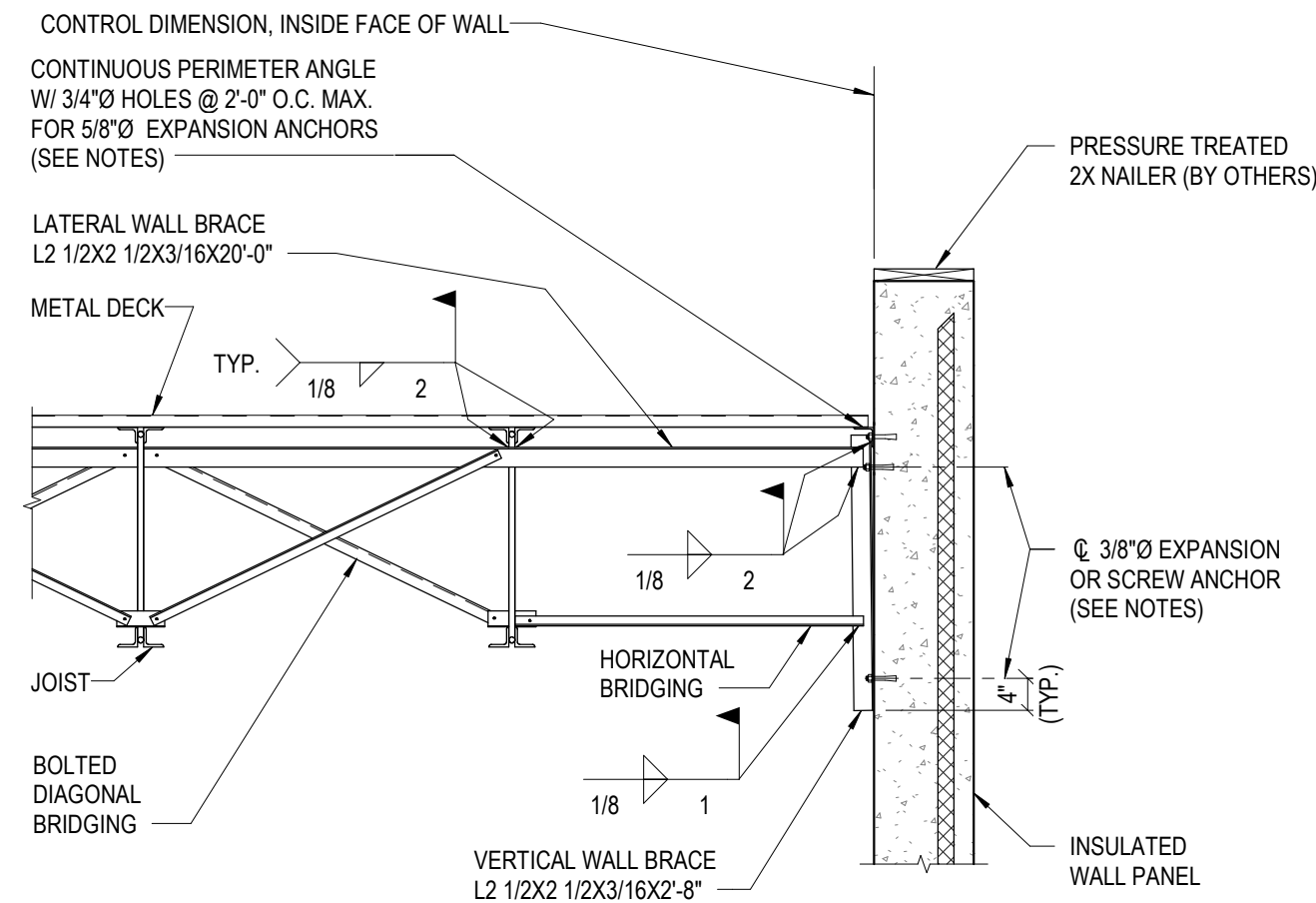
S16 COLUMN-JOIST GIRDER-JOIST CONNECTION
S300, S301 SCALE: NOT TO SCALE



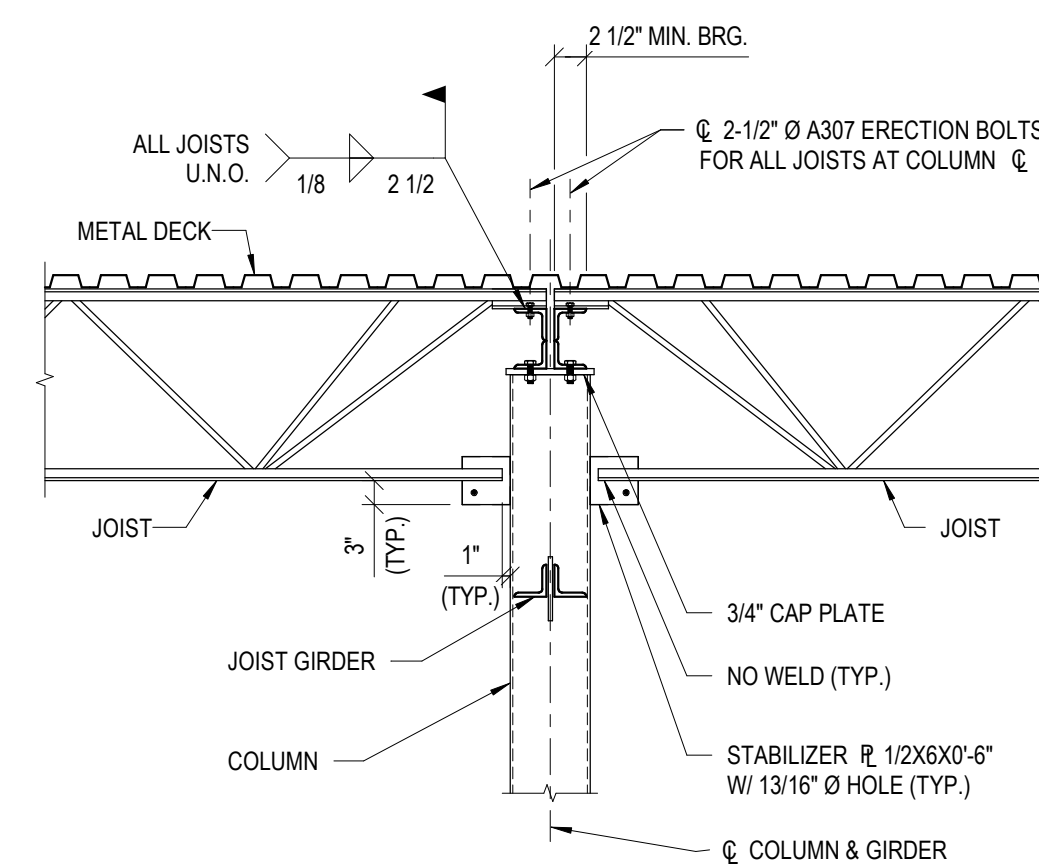
S20 WALL BRACE SECTION
S300, S301 SCALE: NOT TO SCALE



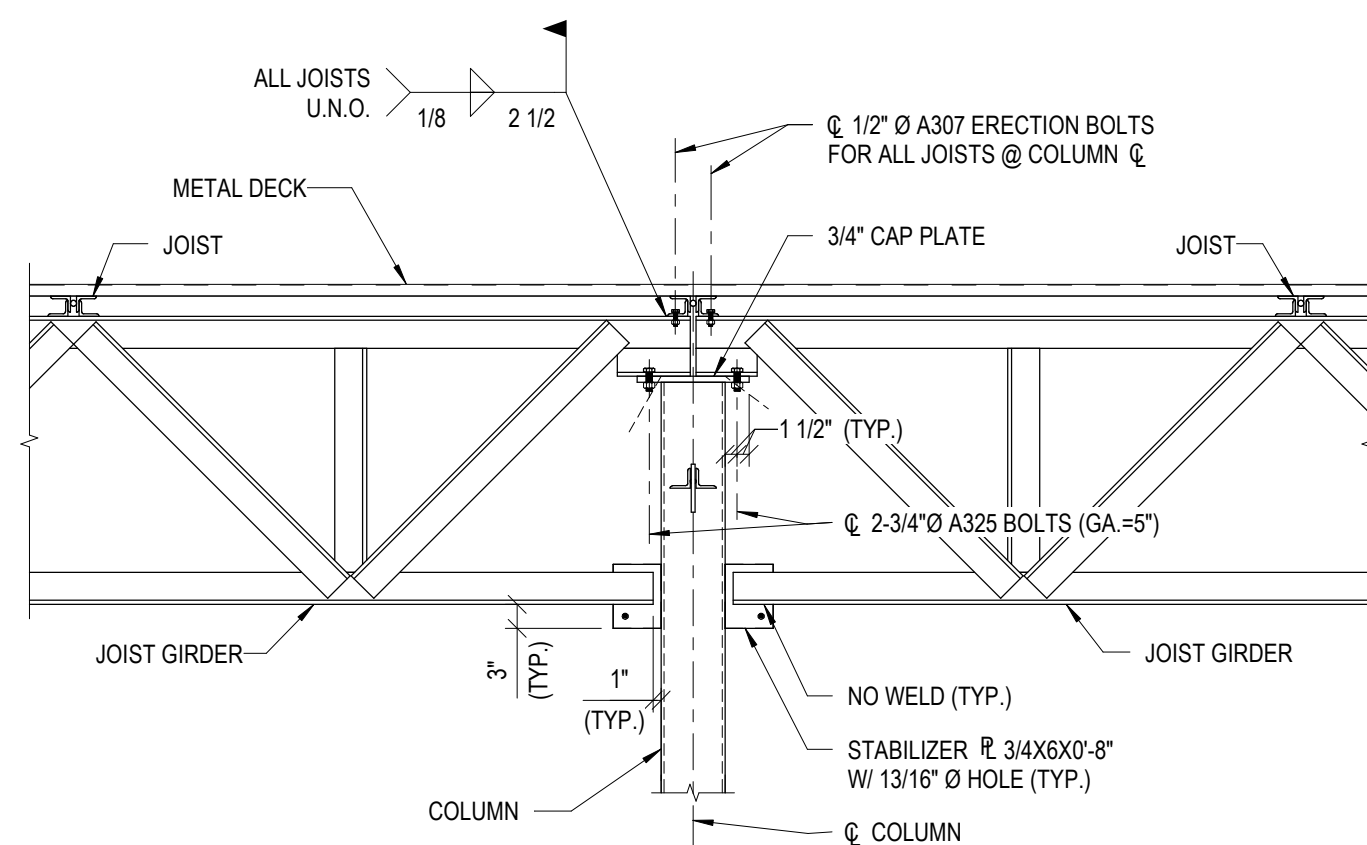
S21 UPLIFT BRIDGING SECTION
S300, S301 SCALE: NOT TO SCALE



S22 BOLTED DIAGONAL BRIDGING SECTION
S300, S301 SCALE: NOT TO SCALE



S32 COLUMN-JOIST-JOIST GIRDER CONNECTION
S300, S301 SCALE: NOT TO SCALE



S35 COLUMN-JOIST GIRDER-JOIST CONNECTION
S300, S301 SCALE: NOT TO SCALE

NOTE:
PROVIDE SLOTTED HOLES IN JOIST & JOIST GIRDER SHOES @ COLUMN

PROJECT TITLE

AXIUM BTS EXPANSION - ST. PETERS

4001 PREMIER PARKWAY ST. PETERS, MISSOURI 63301

A PROJECT FOR
PEAK CONSTRUCTION

GENERAL NOTES



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[illegible]

PROJECT NO: 0129388A.00

DRAWN BY: RMS

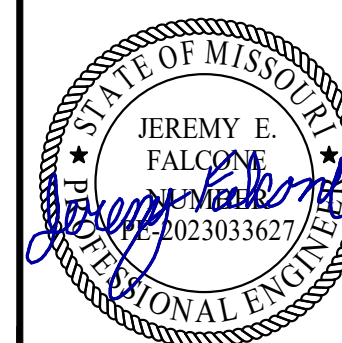
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SHEET NAME

FRAMING DETAILS

SEAL

SHEET NUMBER



S311



C



B



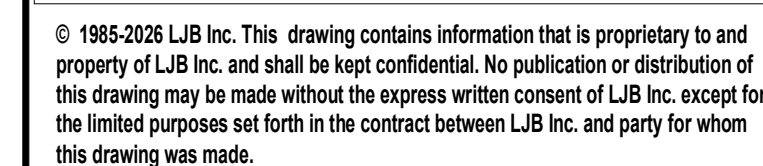
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2



1



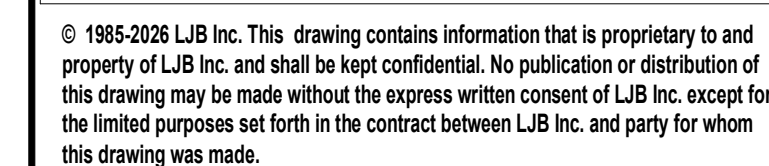
S401

AXIUM BTS EXPANSION - ST.
PETERS

4001 PREMIER PARKWAY ST. PETERS, MISSOURI 63301

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GENERAL NOTES

[illegible]

PROJECT NO: 0129388A.00

DRAWN BY: DFC

CHECKED BY: OWJ

SHEET NAME

WALL PANEL LAYOUTS

SEAL



SHEET NUMBER

S410



NORTH WALL

8" THICK STRUCTURAL PANEL
2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP SMOOTH RUSTICATION



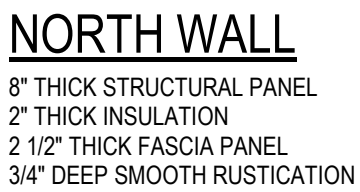
NORTH WALL

8" THICK STRUCTURAL PANEL
2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP SMOOTH RUSTICATION

AXIUM BTS EXPANSION - ST. PETERS

~~PEAK CONSTRUCTION~~

S411



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PROJECT NO: 0129388A.00
DRAWN BY: DFC
CHECKED BY: OWJ

WALL PANEL LAYOUTS

 S412



8" THICK STRUCTURAL PANEL
2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP SMOOTH RUSTICATION



8" THICK STRUCTURAL PANEL
2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP SMOOTH RUSTICATION

AXIUM BTS EXPANSION - ST. PETERS

~~PEAK CONSTRUCTION~~

[illegible]

WALL PANEL LAYOUTS

SHEET NUMBER



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DRAWN BY: DFC
CHECKED BY: OWJ

WALL PANEL LAYOUTS

S414

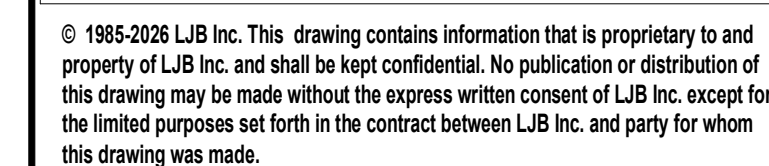
8" THICK STRUCTURAL PANEL
2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP SMOOTH RUSTICATION

AXIUM BTS EXPANSION - ST.
PETERS

A PROJECT FOR

~~PEAK CONSTRUCTION~~

GENERAL NOTES



PROJECT NO: 0129388A.00
DRAWN BY: DFC
CHECKED BY: OWJ

WALL PANEL LAYOUTS



S415



8" THICK STRUCTURAL PANEL
2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP SMOOTH RUSTICATION

AXIUM BTS EXPANSION - ST.
PETERS

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DATA ANALYSIS

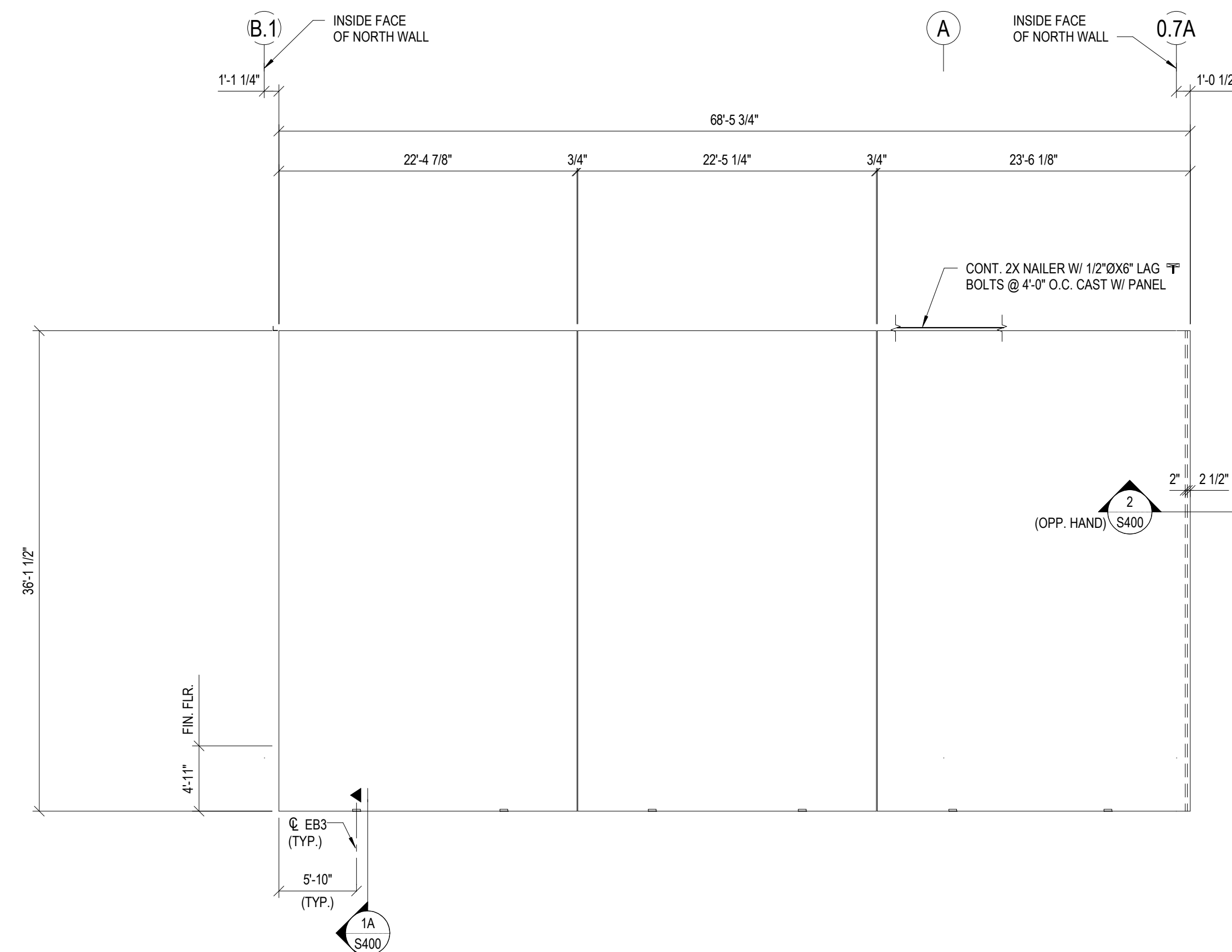
WALL PANEL LAYOUTS

WALL PANEL LAYOUTS

SEAL	SHEET NUMBER
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S416

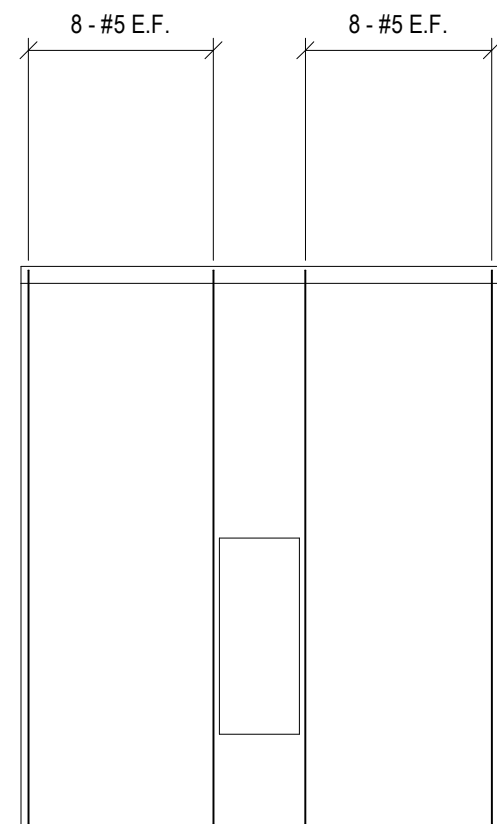


WEST WALL

8" THICK STRUCTURAL PANEL
2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP SMOOTH RUSTICATION

WEST WALL

8" THICK STRUCTURAL PANEL
2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP SMOOTH RUSTICATION



(SEE SECTION A ON S500)

NOTES:

MINIMUM 28 DAY COMPRESSIVE
STRENGTH OF $f'_c=4000$ PSI REQUIRED

(SEE SECTION A ON S500)

NOTES:

MINIMUM 28 DAY COMPRESSIVE
STRENGTH OF $f'_c=4000$ PSI REQUIRED

(SEE SECTION A ON S500)

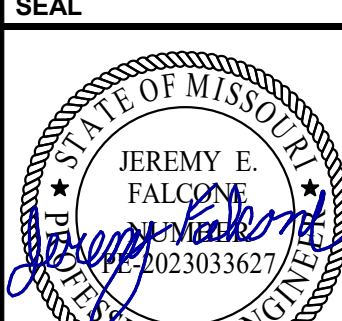
NOTES:

MINIMUM 28 DAY COMPRESSIVE
STRENGTH OF $f'_c=4000$ PSI REQUIRED

(SEE SECTION A ON S500)

NOTES:

MINIMUM 28 DAY COMPRESSIVE
STRENGTH OF $f'_c=4000$ PSI REQUIRED

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PROJECT TITLE																																		
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GENERAL NOTES																																		
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SEAL	SHEET NUMBER																																	
STATE OF MISSOURI JEREMY E. FALCON Professional Engineer 2023033627 PROFESSIONAL ENGINEER 	S510																																	

AXIUM BTS EXPANSION - ST.
PETERS

A PROJECT FOR

~~PEAK CONSTRUCTION~~

GENERAL NOTES



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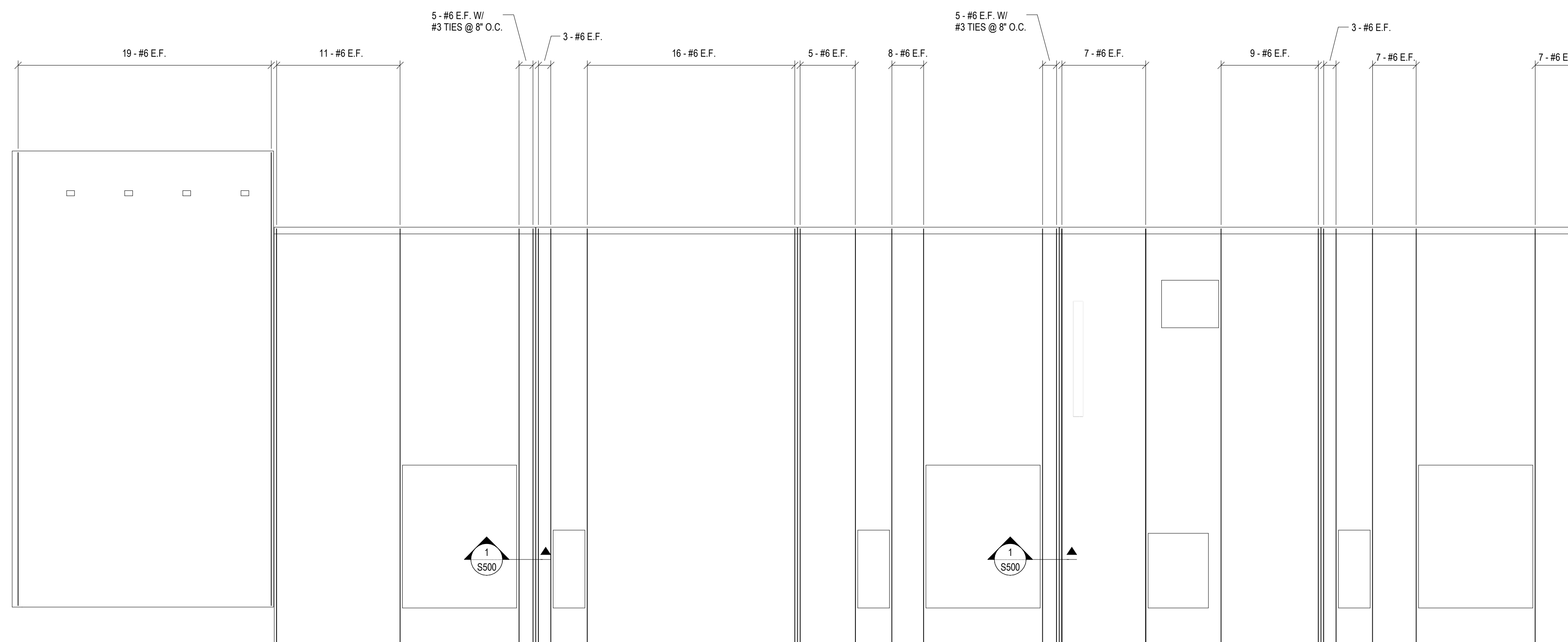
SHEET NAME

WALL PANEL REINFORCING

SHEET NUMBER



S511



(SEE SECTION A ON S500)

NOTES:
MINIMUM 28 DAY COMPRESSIVE
STRENGTH OF f'_c =4000 PSI REQUIRED

(SEE SECTION A ON S500)

(SEE SECTION A ON S500)

NOTES:
MINIMUM 28 DAY COMPRESSIVE
STRENGTH OF $f'_c=4000$ PSI REQUIRED

(SEE SECTION A ON S500

(SEE SECTION A ON S500

NOTES:
MINIMUM 28 DAY COMPRESSIVE
STRENGTH OF $f'_c=4000$ PSI REQUIRED

(SEE SECTION A ON S500

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	S512																																							

AXIUM BTS EXPANSION - ST.
PETERS

4001 PREMIER PARKWAY ST. PETERS, MISSOURI 63301

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[illegible]

PROJECT NO: 0129388A.00

DRAWN BY: DFC

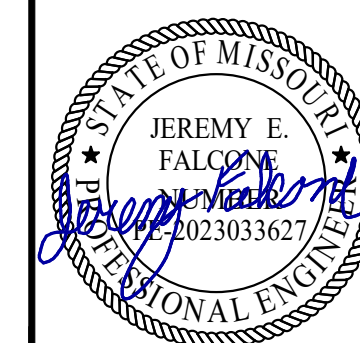
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SHEET NAME

WALL PANEL
REINFORCING

SEAL

SHEET NUMBER

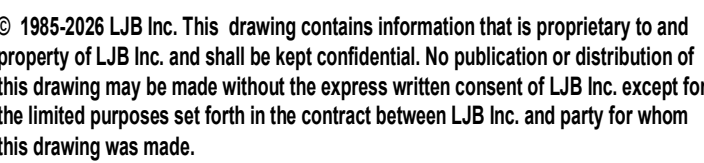


S513

AXIUM BTS EXPANSION - ST. PETERS

~~A PROJECT FOR
PEAK CONSTRUCTION~~

GENERAL NOTES

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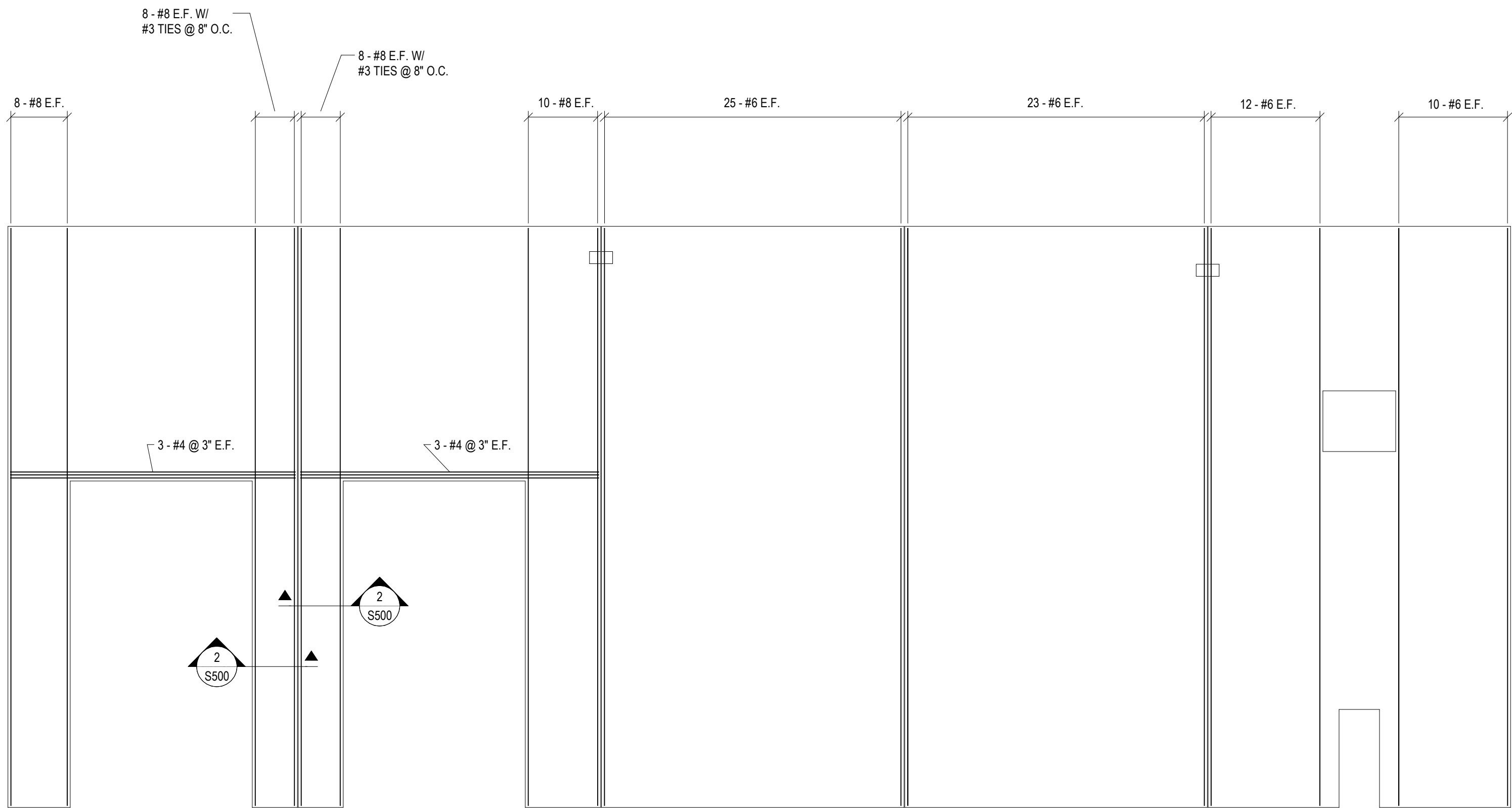
SHEET NAME

WALL PANEL REINFORCING

SHEET NUMBER



S514



(SEE SECTION A ON S500)

(SEE SECTION A ON S500)

(SEE SECTION A ON S500)

(SEE SECTION A ON S500)

(SEE SECTION A ON S500)



WB7
(SEE SECTION A ON S500)

WB8
(SEE SECTION A ON S500)

WB9
(SEE SECTION A ON S500)

WB10
(SEE SECTION A ON S500)

[illegible]

AXIUM BTS EXPANSION - ST. PETERS

~~PEAK CONSTRUCTION~~

GENERAL NOTES



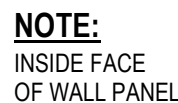
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[illegible]

SHEET NAME

WALL PANEL
REINFORCING

SEAL	SHEET NUMBER
	S516

JS1JS2

JS4R (OPP. HAND)
(NO BOLT)



JP1

GP1EA1

- ### STANDARD FABRICATION NOTES

PROJECT TITLE

AXIUM BTS EXPANSION - ST. PETERS

4001 PREMIER PARKWAY ST. PETERS, MISSOURI 63301

~~A PROJECT FOR~~

~~PEAK CONSTRUCTION~~

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PROJECT NO:	0129388A.00
DRAWN BY:	RMS
CHECKED BY:	OWJ

STANDARD FABRICATION DETAILS

SEAL	SHEET NUMBER
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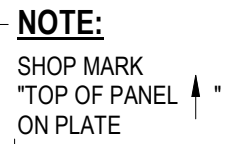
S700

AXIUM BTS EXPANSION - ST. PETERS

~~A PROJECT FOR~~

~~PEAK CONSTRUCTION~~

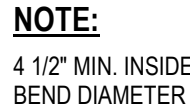
GENERAL NOTES



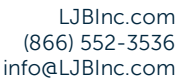
EMBEDDED PLATE
EP1



EMBEDDED BASE ANCHOR
EB3



EMBEDDED PLATE
EP11



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