

**WHEELING-LAKE ERIE SPAN (SPAN 19) GUSSET PLATES
LORAIN CARNEGIE**

CHECKED: JLV

DATE: 5/17/11

LEGEND

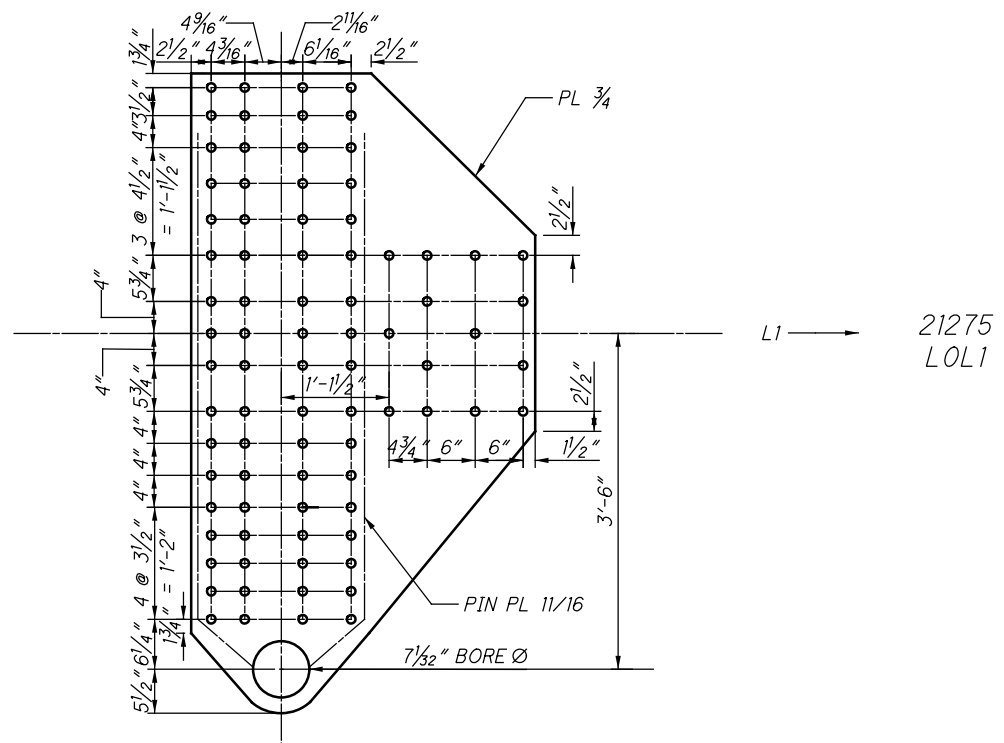
- $1 \frac{1}{16}$ " HOLES TYPICAL
- $1 \frac{3}{16}$ " HOLES TYPICAL

NOTES:

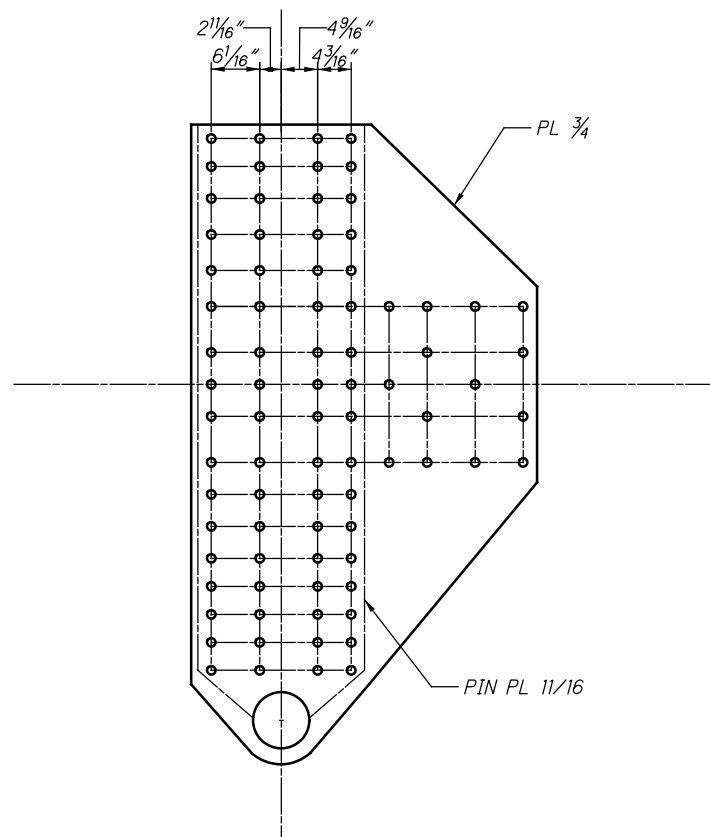
ALL EDGE DISTANCES ARE $1 \frac{3}{4}$ "
UNLESS NOTED OTHERWISE.

SPLICE PLATES NOT SHOWN

ALL GUSSET PLATES ARE
COPPER BEARING SILICON STEEL



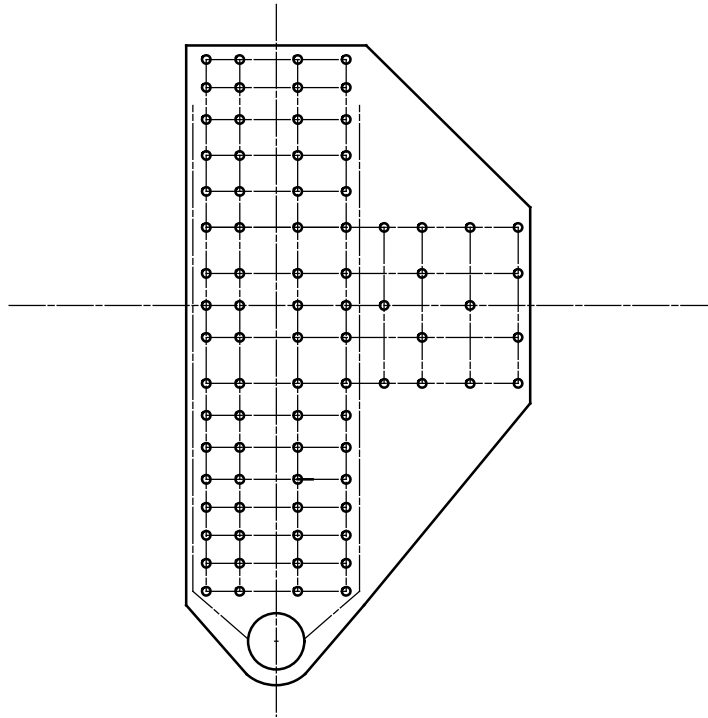
**L127 OUTSIDE (SPAN 19)
(NEAR SIDE)**



**L127 OUTSIDE (SPAN 19)
(FAR SIDE)**

21273
UOL0

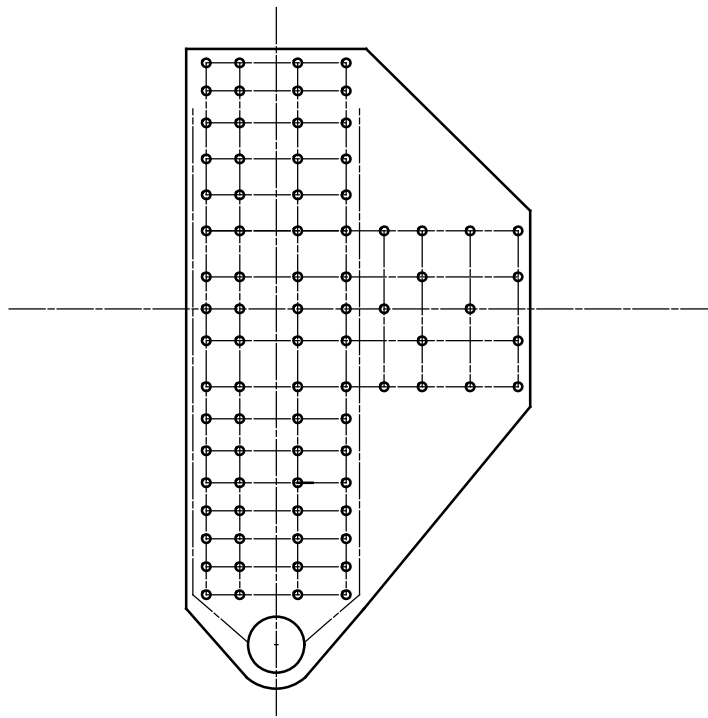
12127 AND 42127



21275
LOL1

**L127 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

21273
UOL0

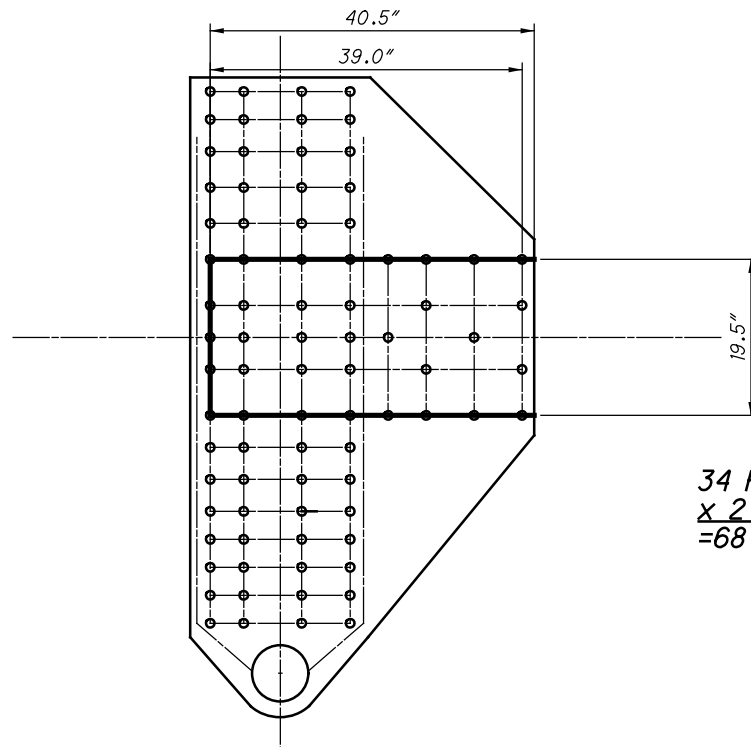


21275
LOL1

**L127 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

21273
UOL0

12127 AND 42127

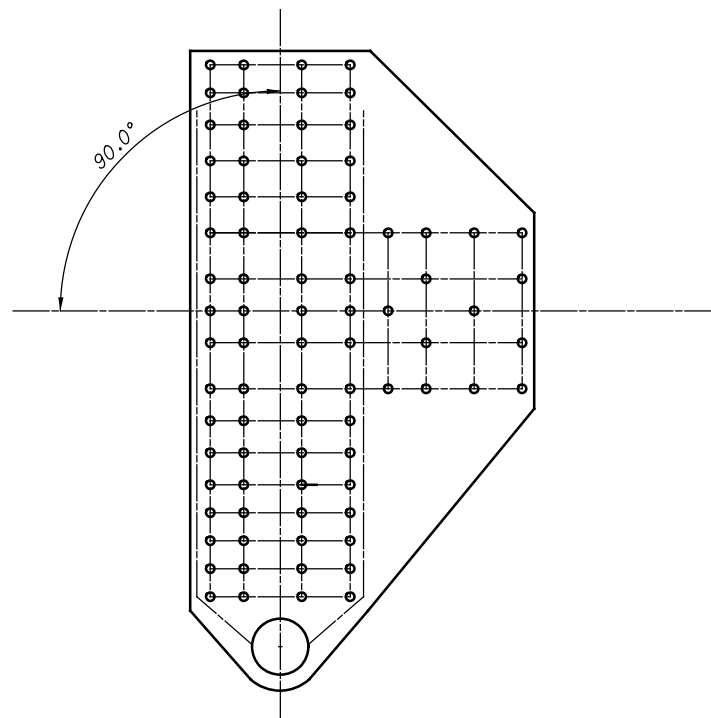


21275
LOL1

34 RIVETS
x 2 PLATES
=68 RIVETS

**L127 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

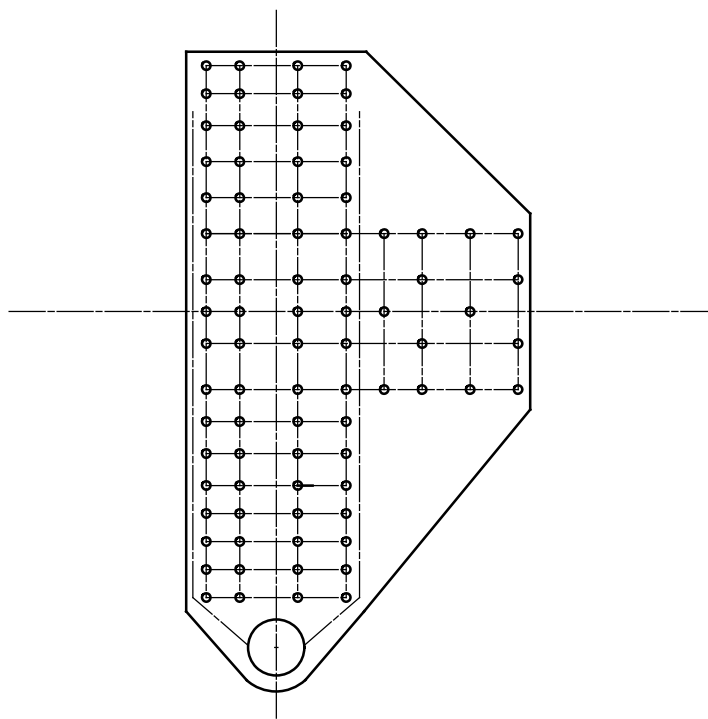
21273
UOL0



21275
LOL1

**L127 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

21273
UOL0

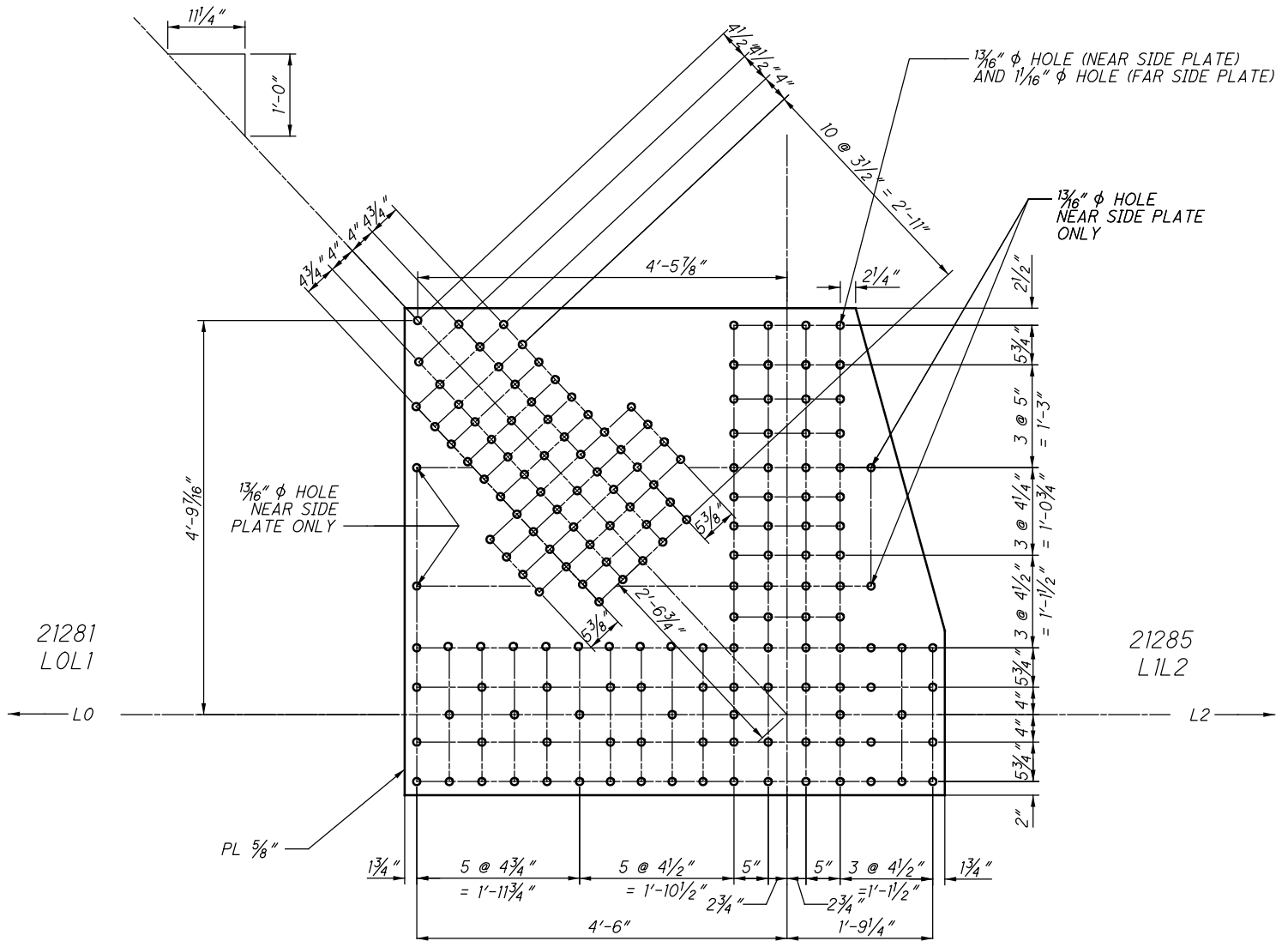


21275
LOL1

**L127 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**

21282
UOL1

21283
UIL1



**L128 OUTSIDE (SPAN 19)
(NEAR AND FAR SIDE)**

21285
L1L2

$L_c = 5.8"$

21283
U/L1

12128 AND 42128

$L_c = 4.5"$

21282
UOL1

62.5"

54.7"

17.4"

4.5"

4.5"

4.5"

21281
LOL1

21285
L1L2

**L128 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

21283
U/L1

21282
UOL1

$L_c = 3.7"$

51.1"

$L_c = 3.7"$

21281
LOL1

21285
L1L2

32.2"

5.5"

5.5"

**L128 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

$$\begin{array}{r} 40 \text{ RIVETS} \\ \times 2 \text{ PLATES} \\ \hline = 80 \text{ RIVETS} \end{array}$$
$$\begin{array}{r} 20 \text{ RIVETS} \\ \times 2 \text{ PLATES} \\ \hline = 40 \text{ RIVETS} \end{array}$$
$$\begin{array}{r} 56 \text{ RIVETS} \\ \times 2 \text{ PLATES} \\ \hline = 112 \text{ RIVETS} \end{array}$$
$$\begin{array}{r} 45 \text{ RIVETS} \\ \times 2 \text{ PLATES} \\ \hline = 90 \text{ RIVETS} \end{array}$$

21281
LOL1

**L128 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

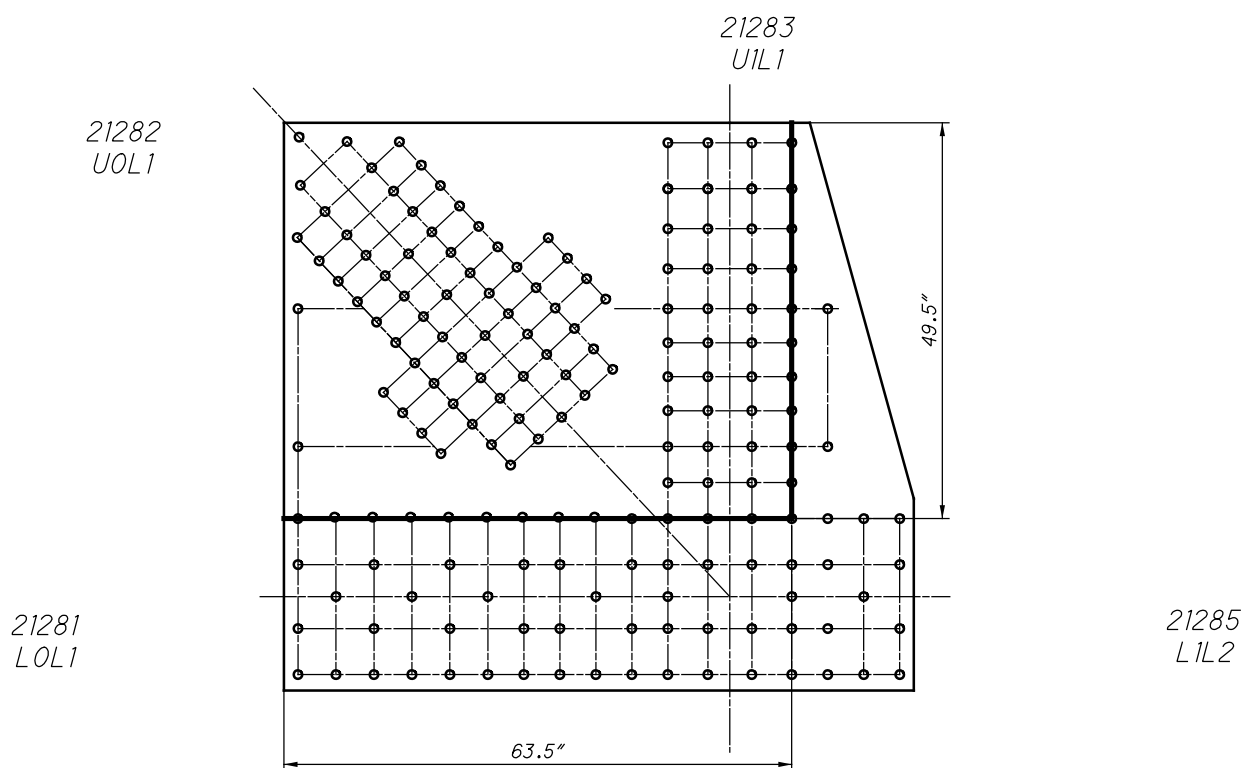
21283
U1L1

21282
UOL1

21281
LOL1

21285
L1L2

**L128 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

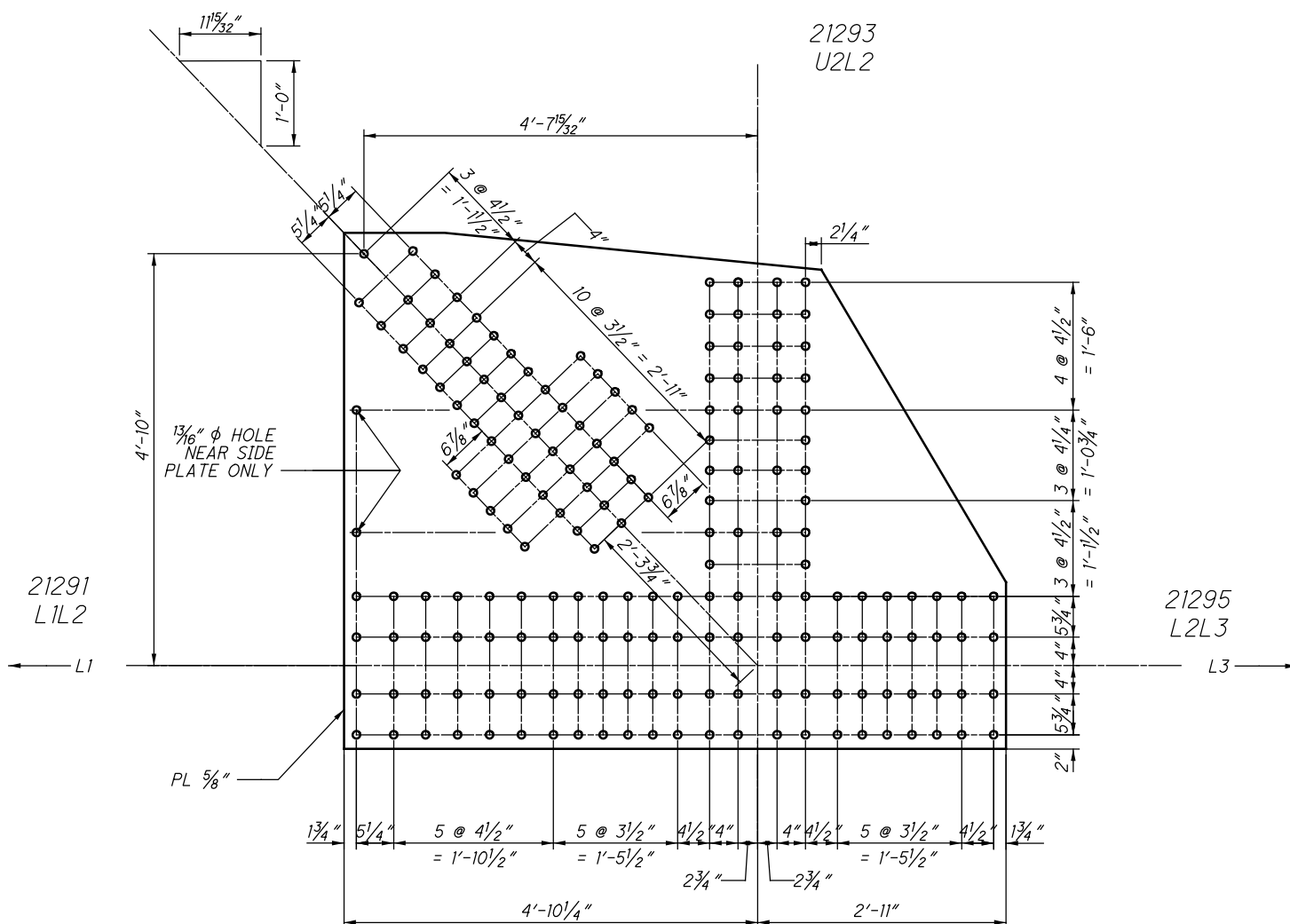


**L128 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**

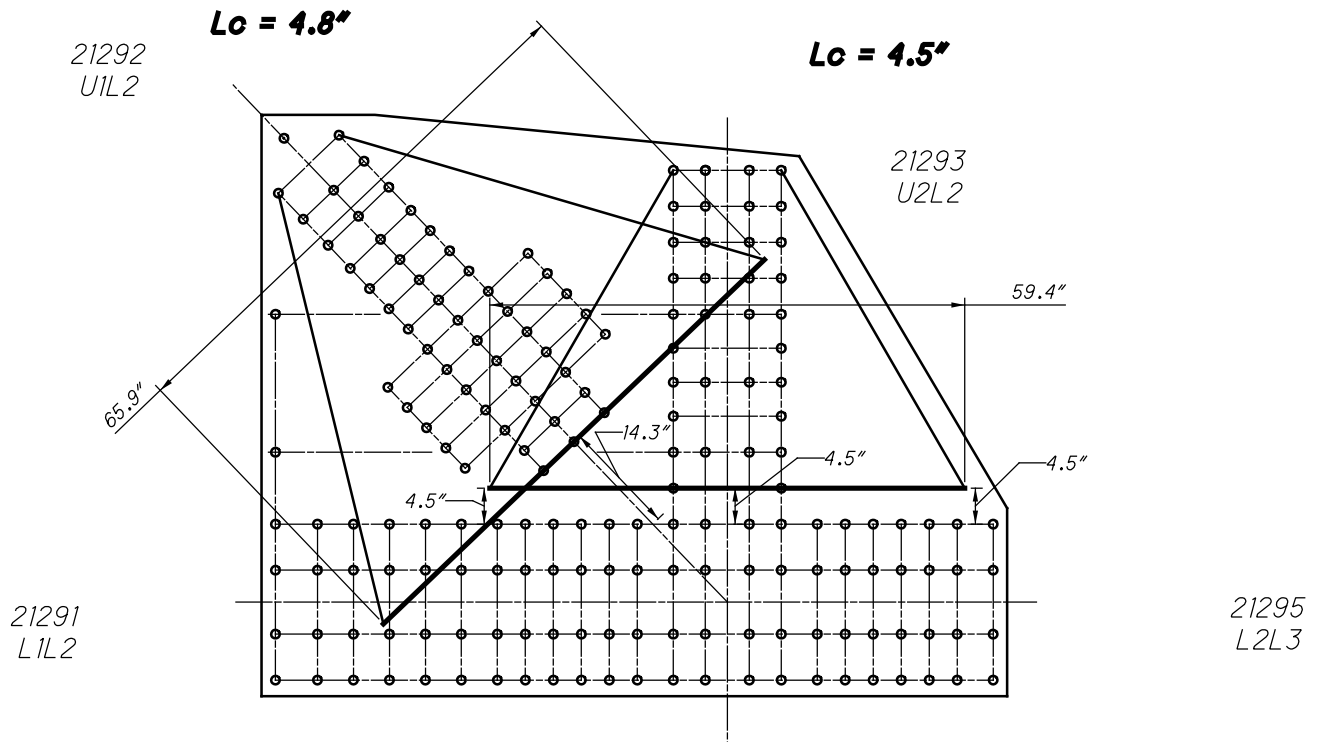
21293
U2L2

21291
L1L2

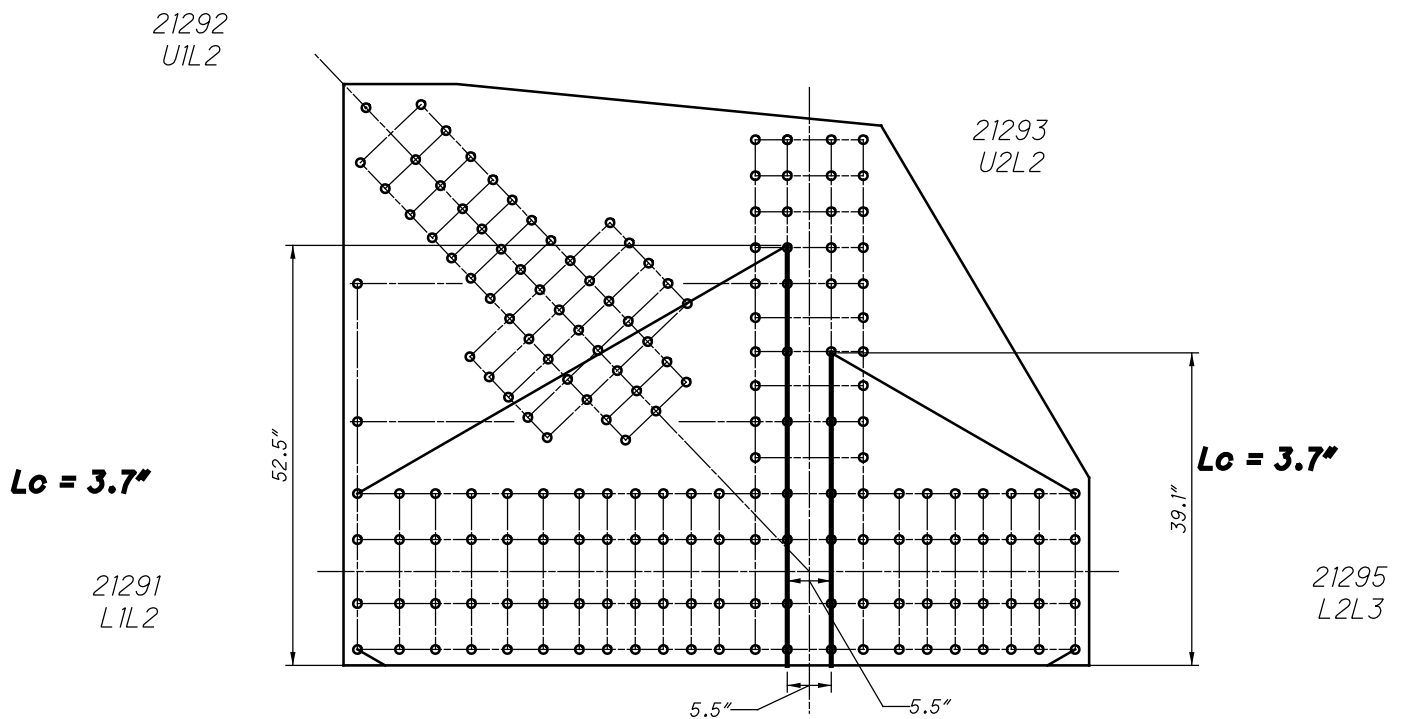
21295
L2L3



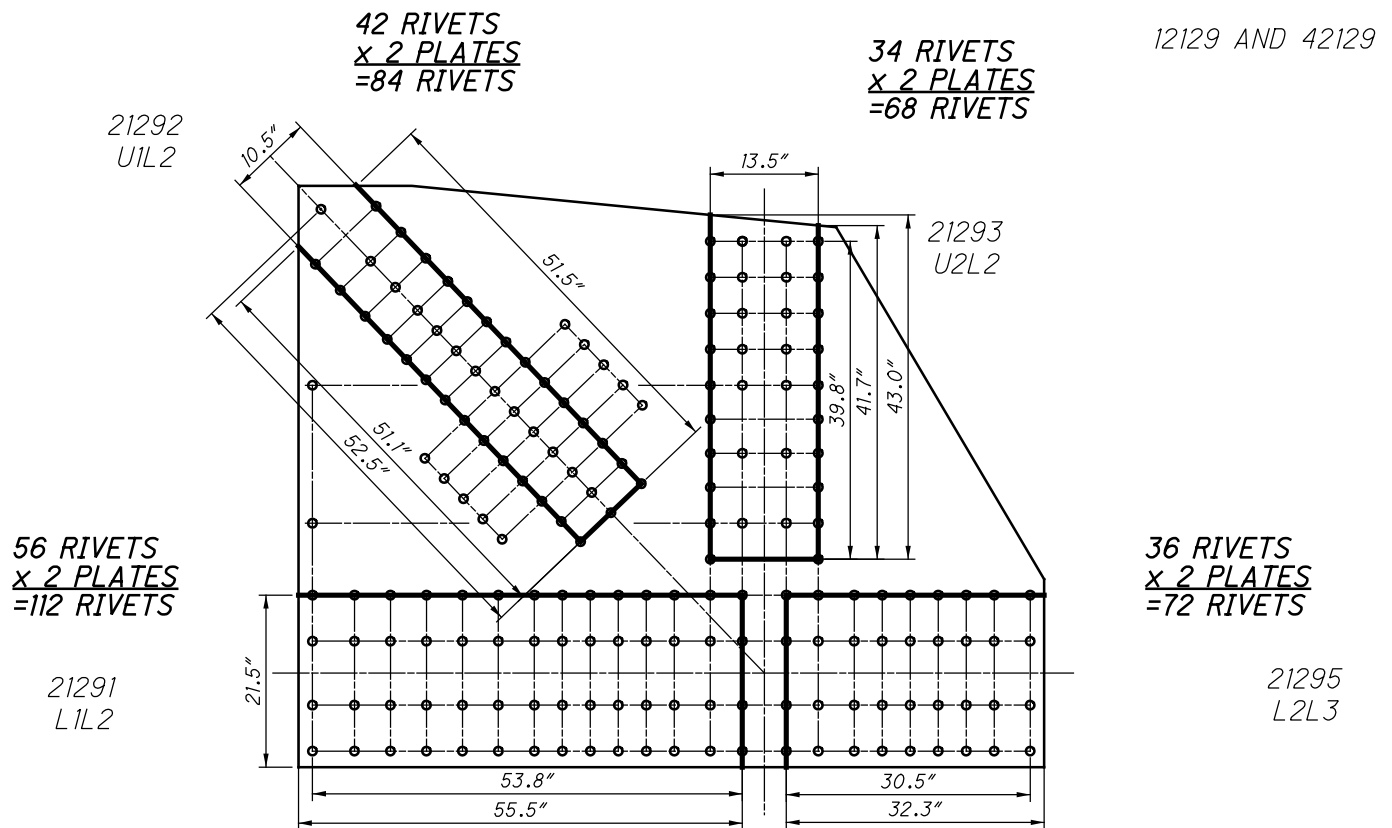
**L129 OUTSIDE (SPAN 19)
(NEAR AND FAR SIDE)**



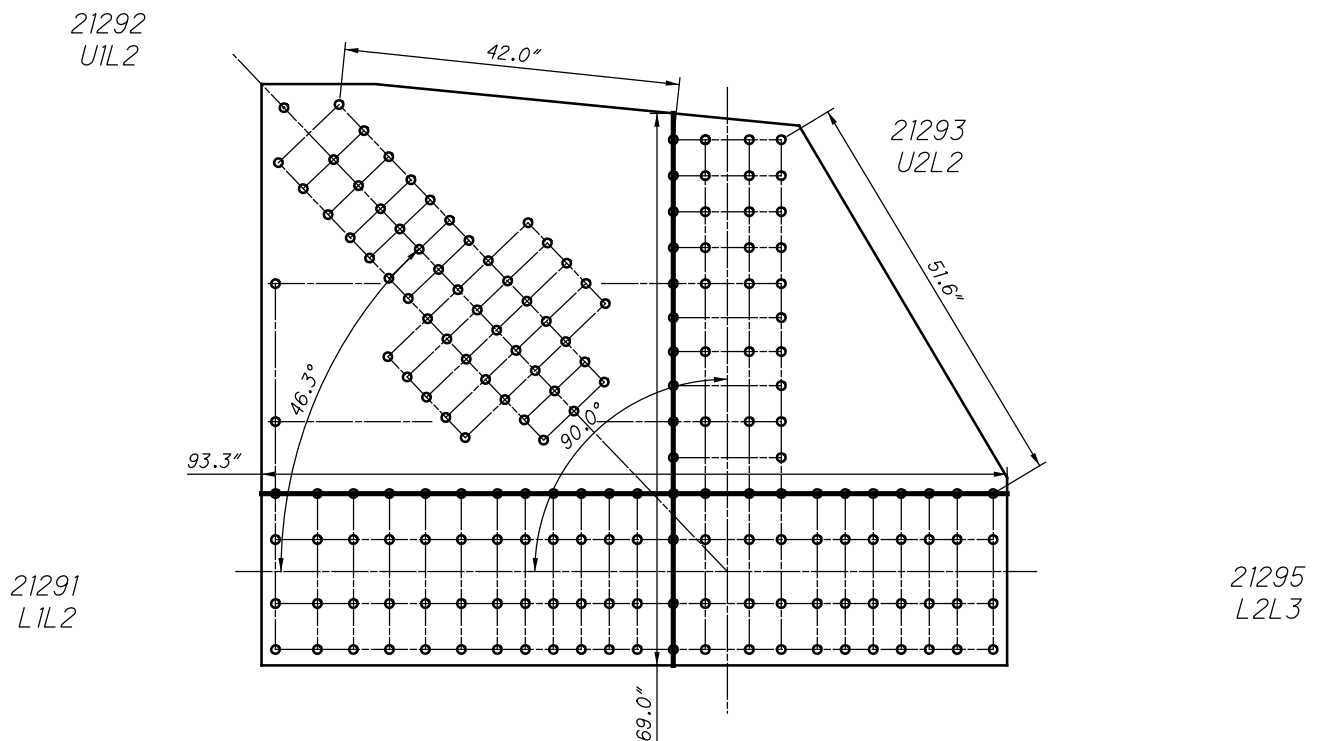
**L129 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**



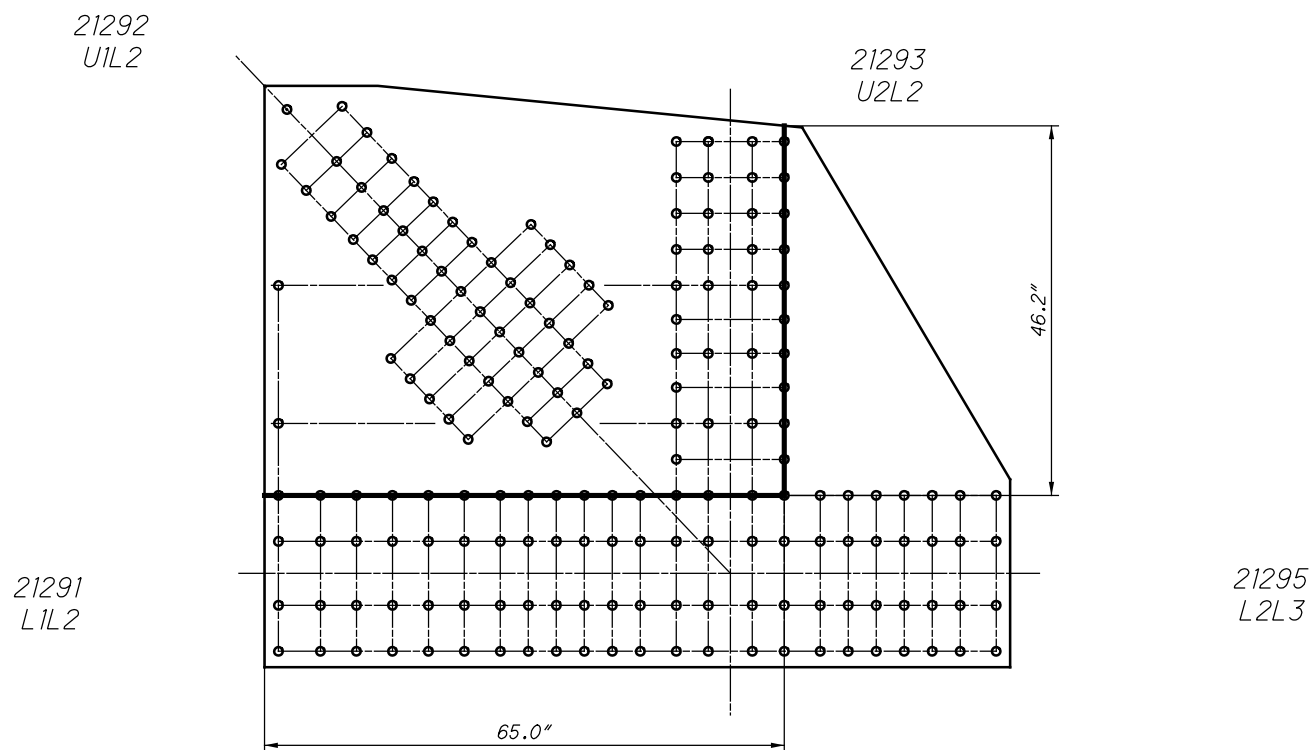
**L129 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**



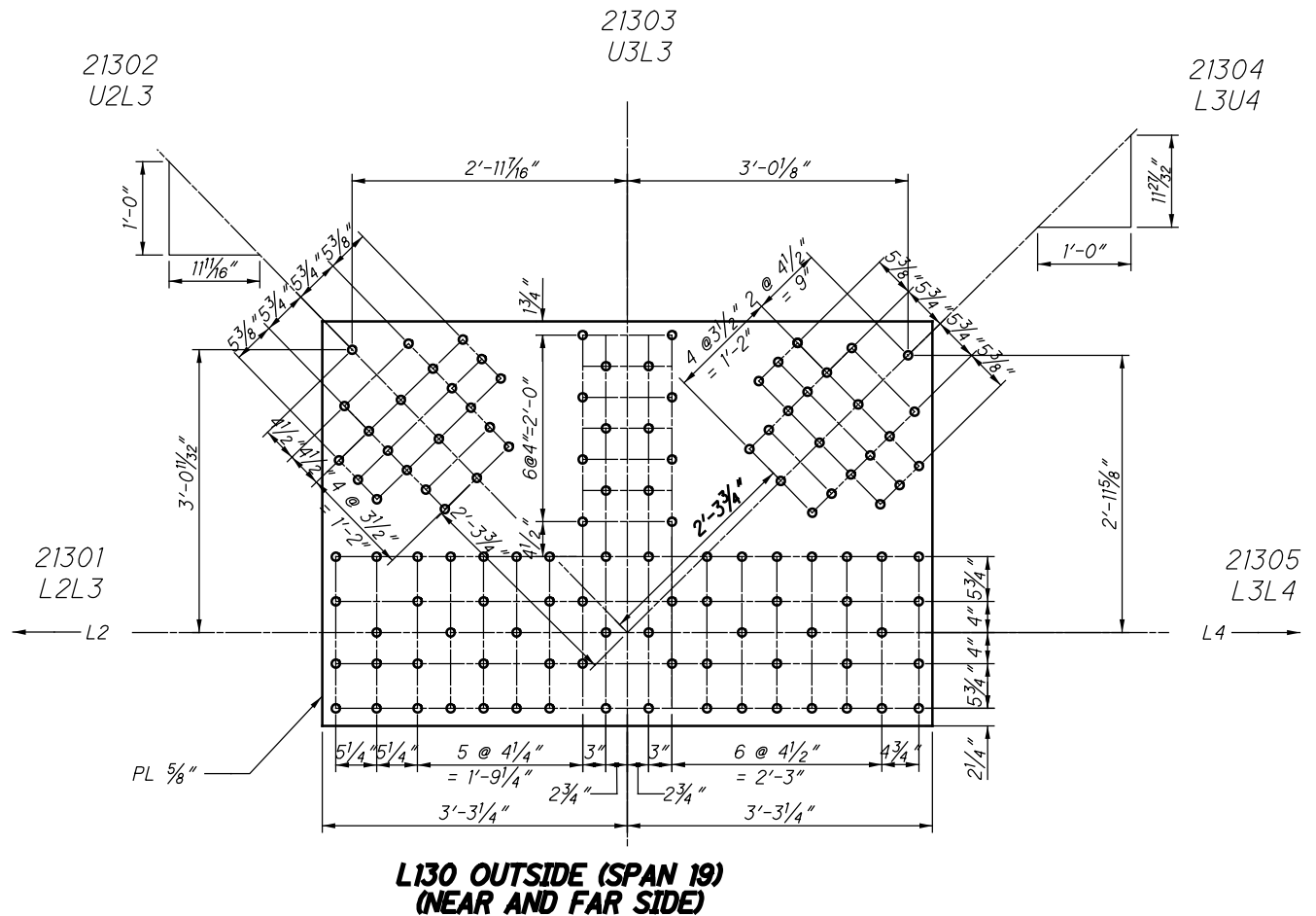
**L129 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**



**L129 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**



**L129 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**



$L_c = 4.5''$

12130 AND 42130

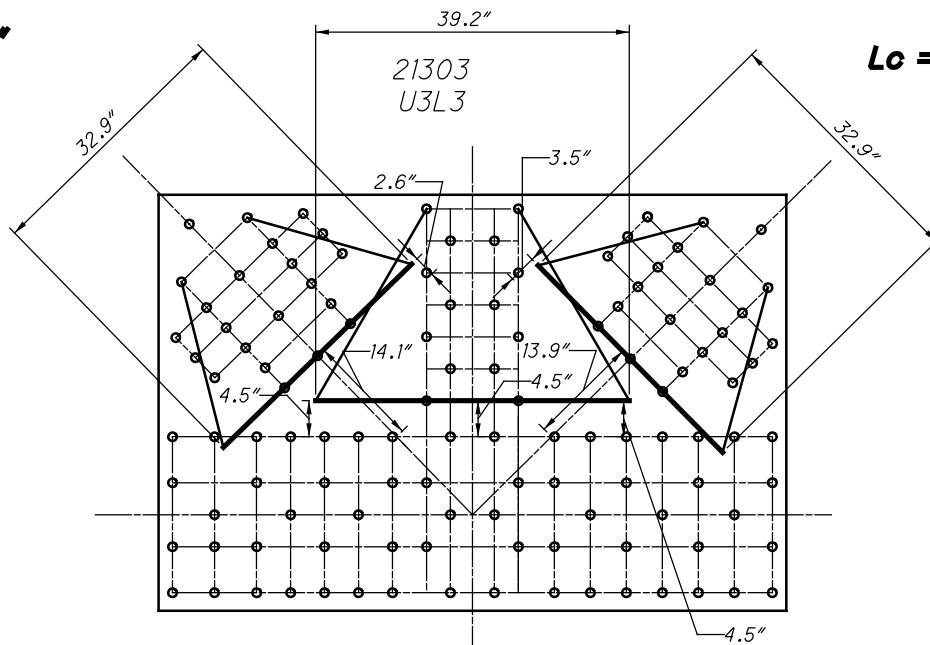
$L_c = 5.6''$

21302
U2L3

$L_c = 5.8''$

21304
L3U4

21301
L2L3



**L130 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

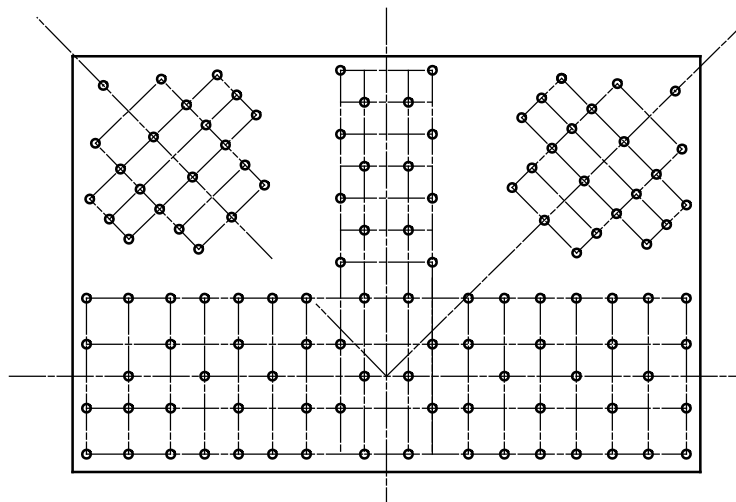
CHORD IS CONTINUOUS

21303
U3L3

21302
U2L3

21304
L3U4

21301
L2L3



21305
L3L4

**L130 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

12130 AND 42130

16 RIVETS
x 2 PLATES
=32 RIVETS

14 RIVETS
x 2 PLATES
=28 RIVETS

21302
U2L3

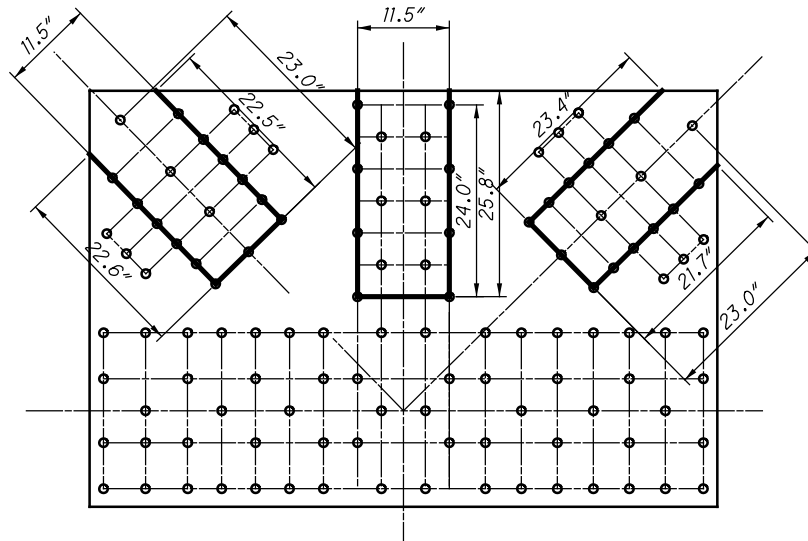
21303
U3L3

21304
L3U4

16 RIVETS
x 2 PLATES
=32 RIVETS

21301
L2L3

21305
L3L4



**L130 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

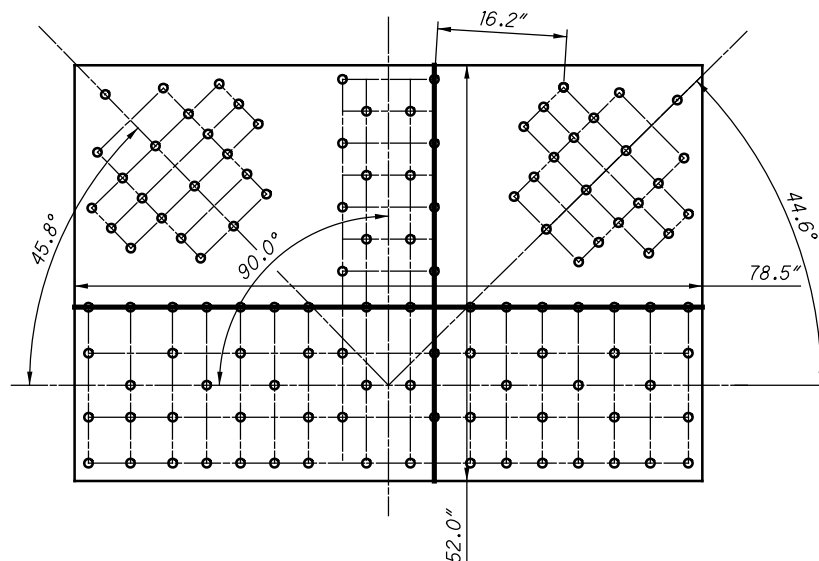
21303
U3L3

21302
U2L3

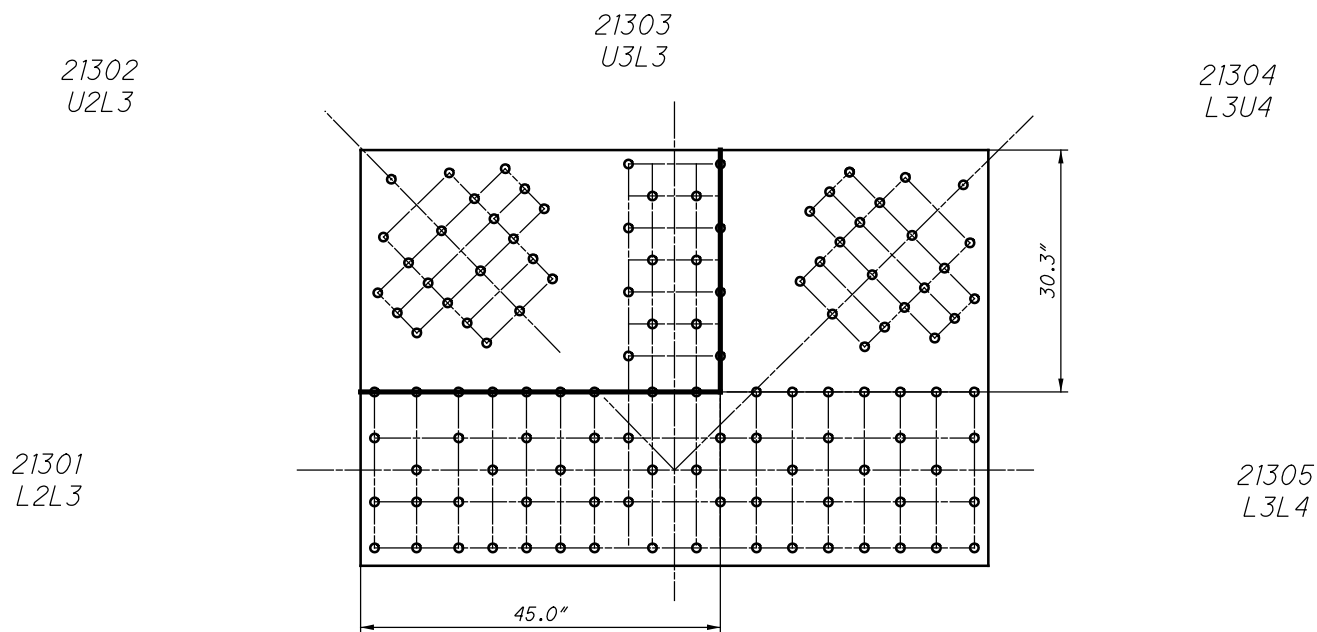
21304
L3U4

21301
L2L3

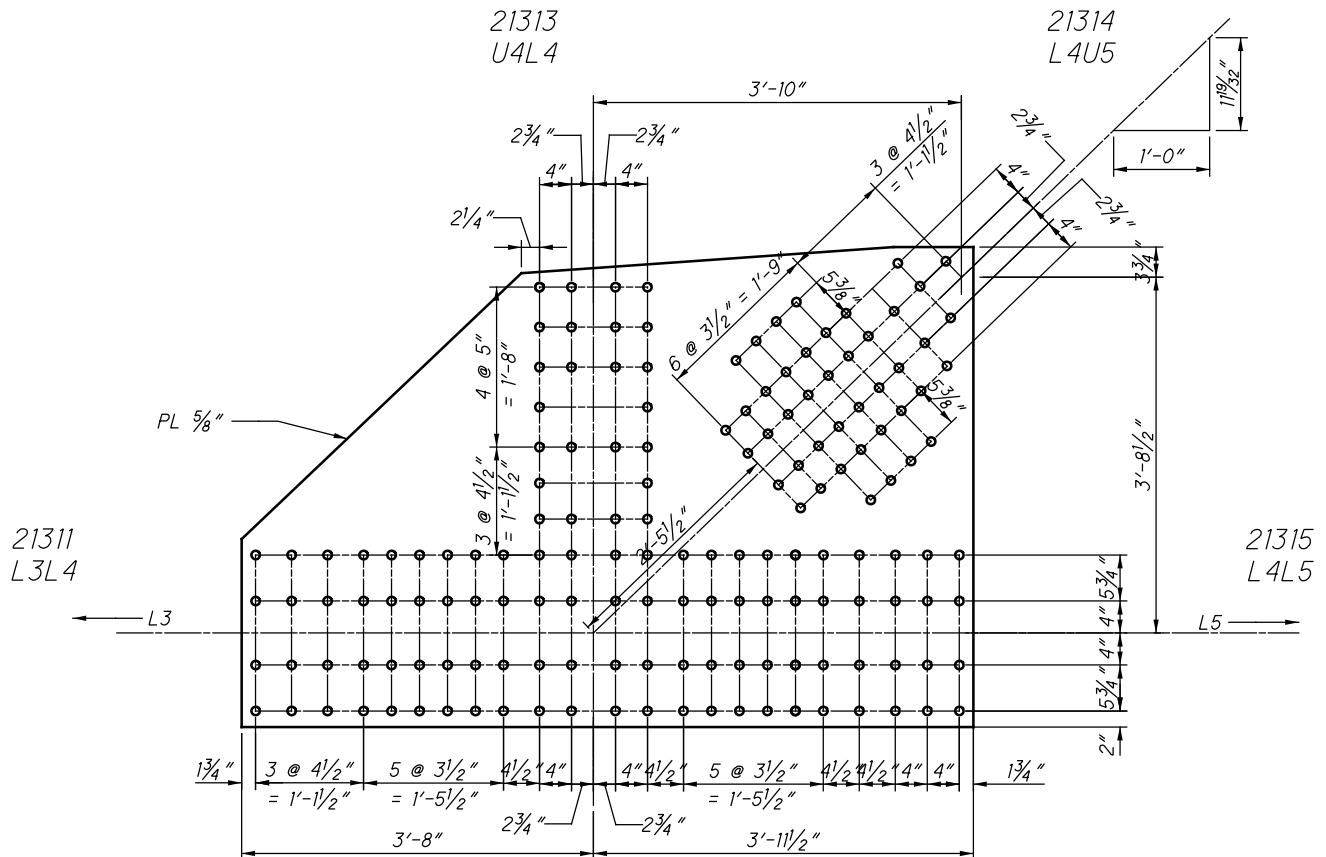
21305
L3L4



**L130 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**



**L130 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**



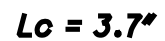
**L131 OUTSIDE (SPAN 19)
(NEAR AND FAR SIDE)**

$L_c = 5.2''$

21314
L4U5



21314
L4U5



21315
L4L5

L131 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S

24 RIVETS
x 2 PLATES
=48 RIVETS

21313
U4L 4

21314
L4U5

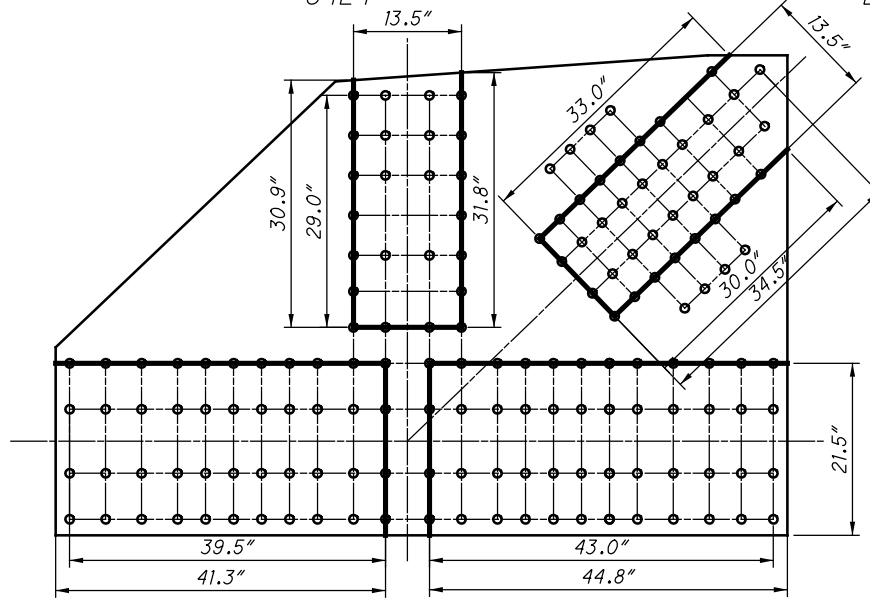
35 RIVETS
x 2 PLATES
=70 RIVETS

44 RIVETS
x 2 PLATES
=88 RIVETS

21311
L3L 4

48 RIVETS
x 2 PLATES
=96 RIVETS

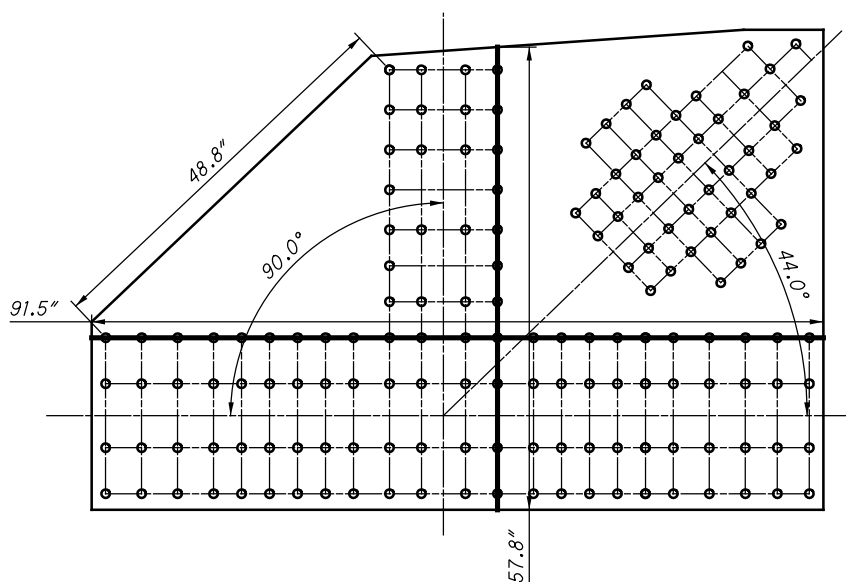
21315
L4L5



**L131 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

21313
U4L 4

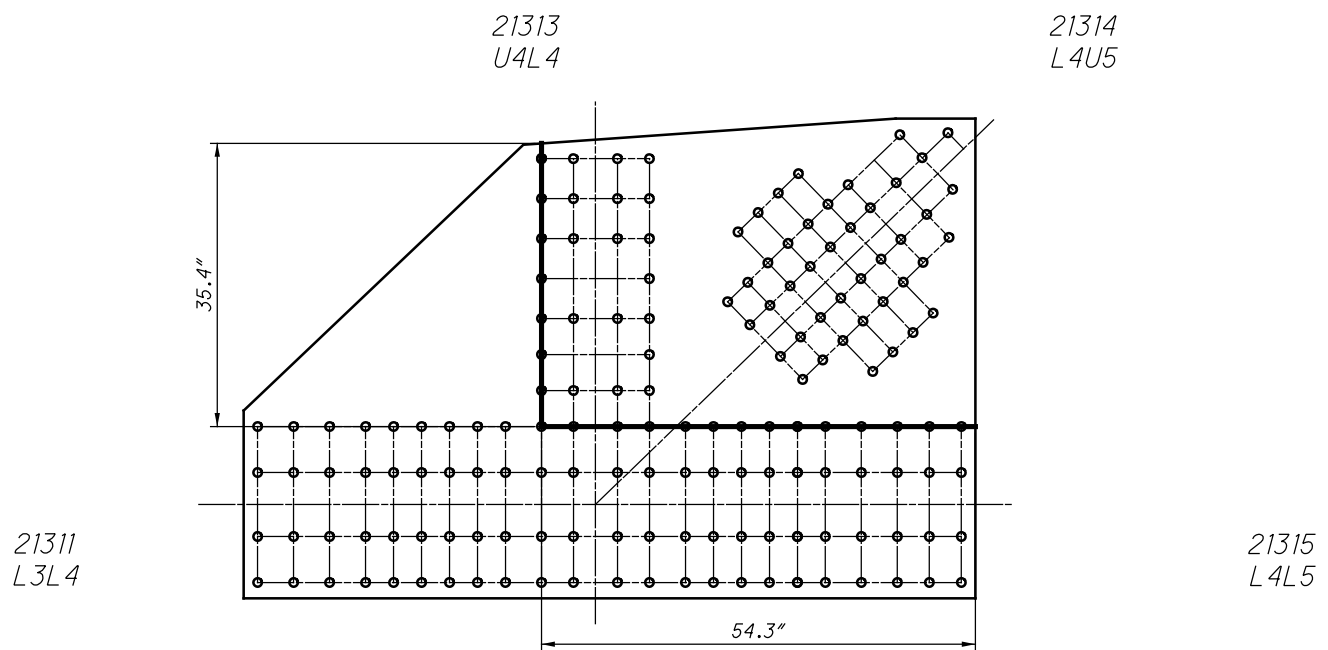
21314
L4U5



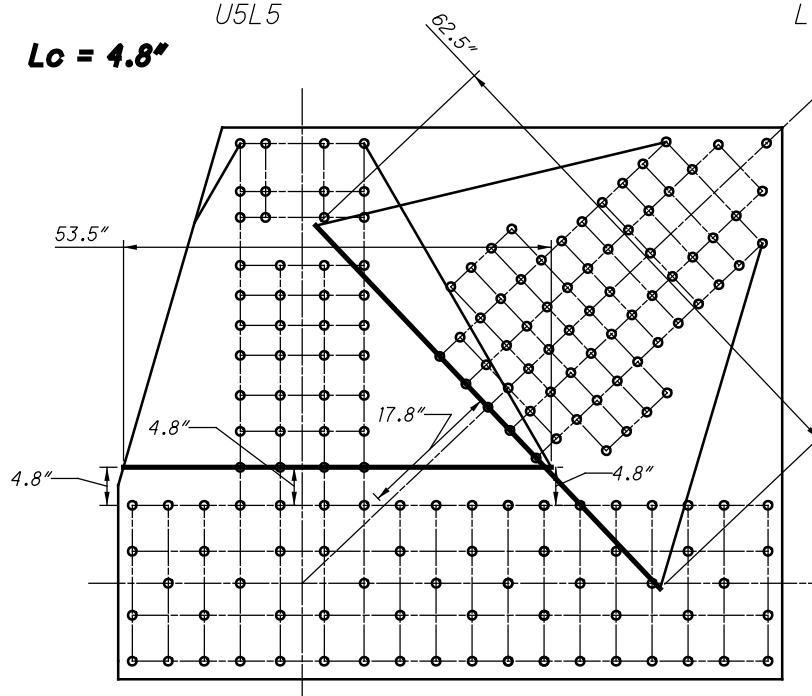
21311
L3L 4

21315
L4L5

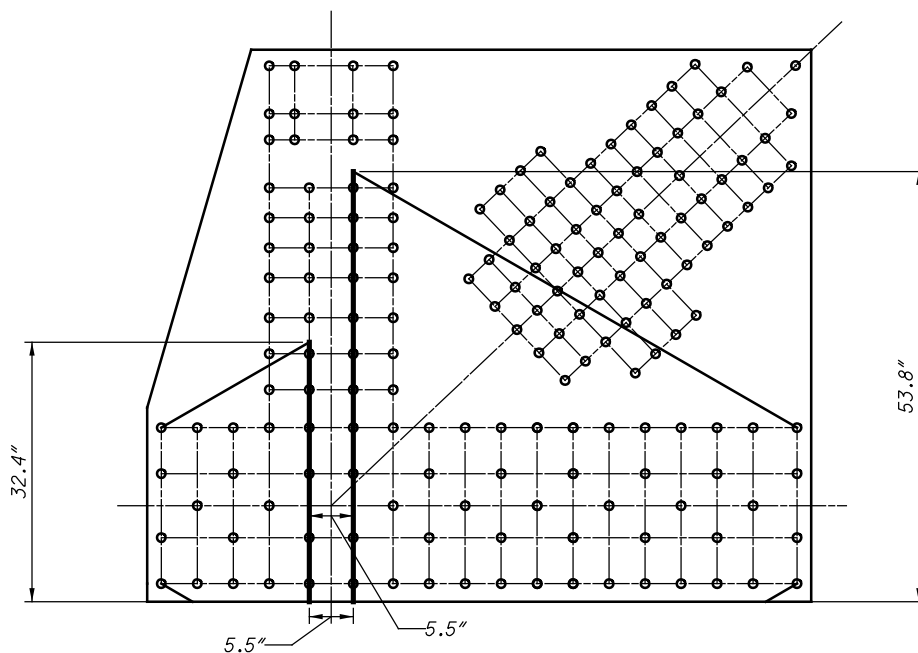
**L131 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**



**L131 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**

21323
U5L521324
L5U6 **$L_c = 4.8''$** **$L_c = 5.9''$** 21321
L4L521325
L5L6

**L132 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

21323
U5L521324
L5U6 **$L_c = 3.7''$** **$L_c = 3.7''$** 21321
L4L521325
L5L6

**L132 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

40 RIVETS
x 2 PLATES
=80 RIVETS

21323
U5L5

21324
L5U6

12132 AND 42132

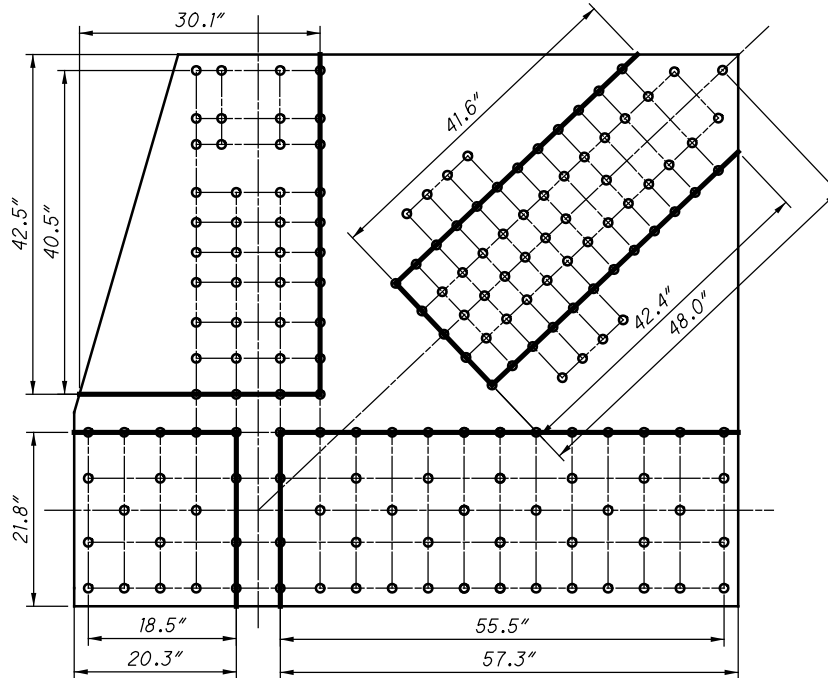
59 RIVETS
x 2 PLATES
=118 RIVETS

21321
L4L5

18 RIVETS
x 2 PLATES
=36 RIVETS

21325
L5L6

46 RIVETS
x 2 PLATES
=92 RIVETS



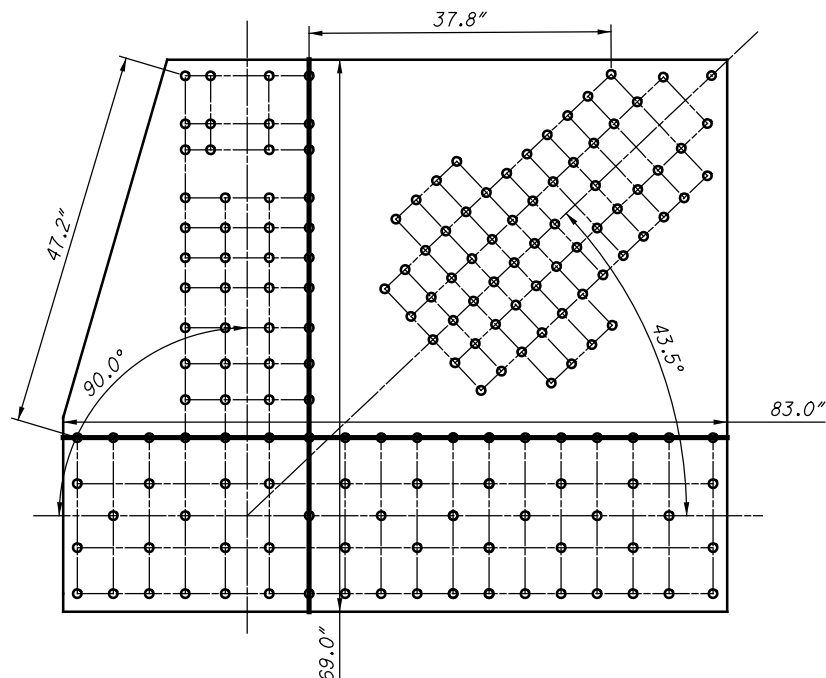
**L132 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

21323
U5L5

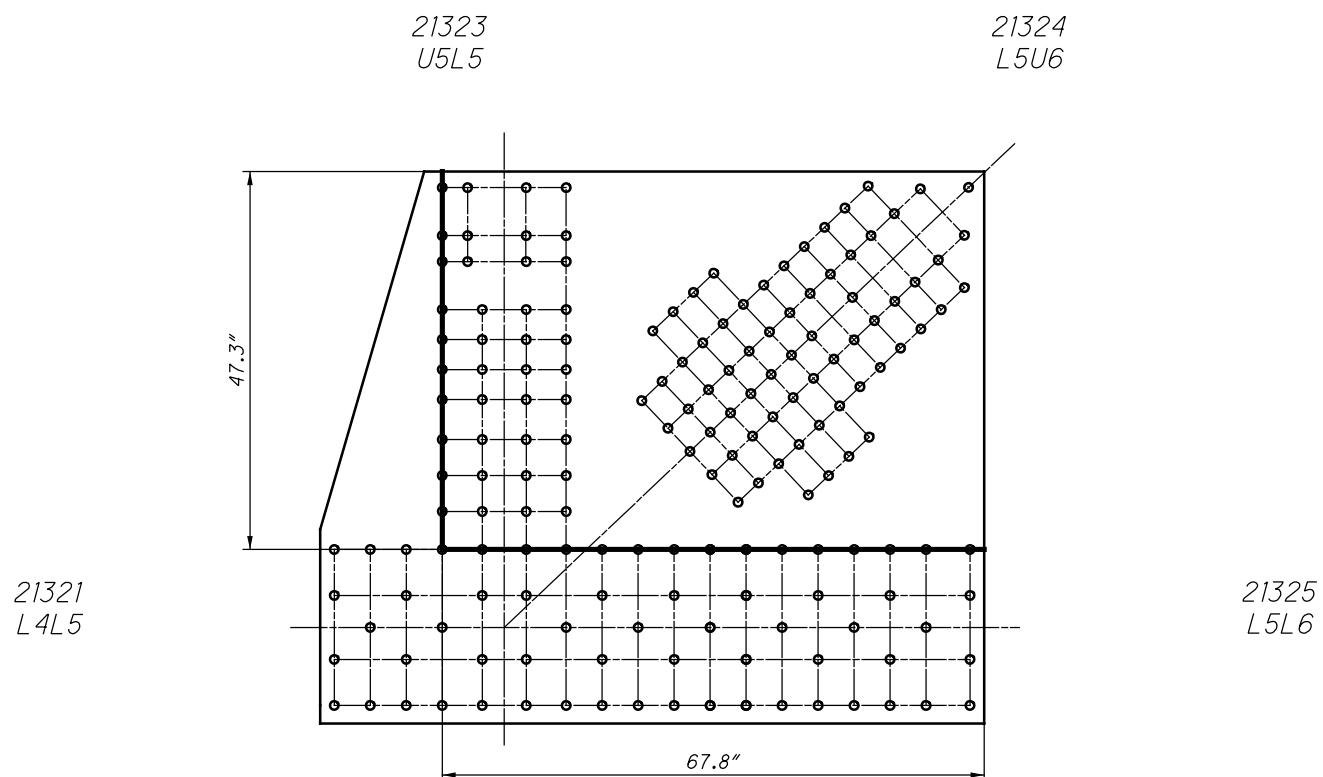
21324
L5U6

21321
L4L5

21325
L5L6



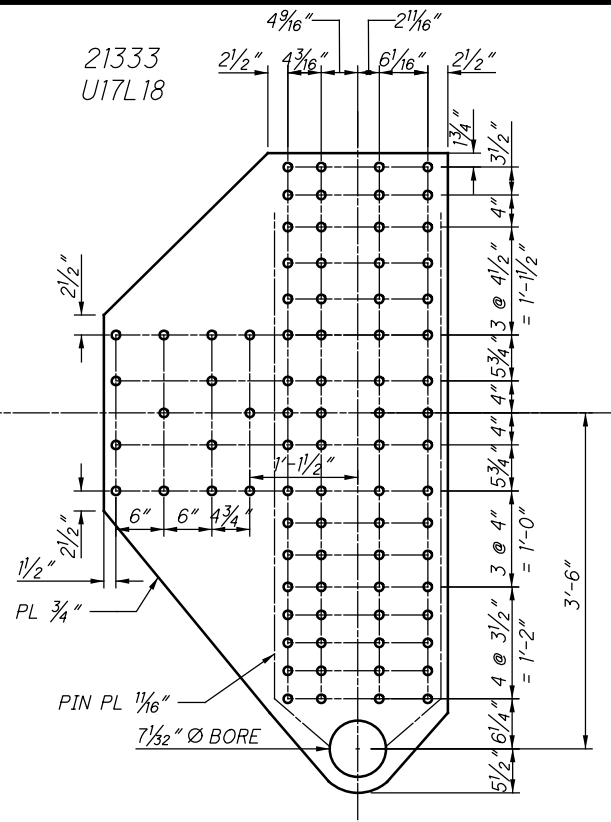
**L132 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**



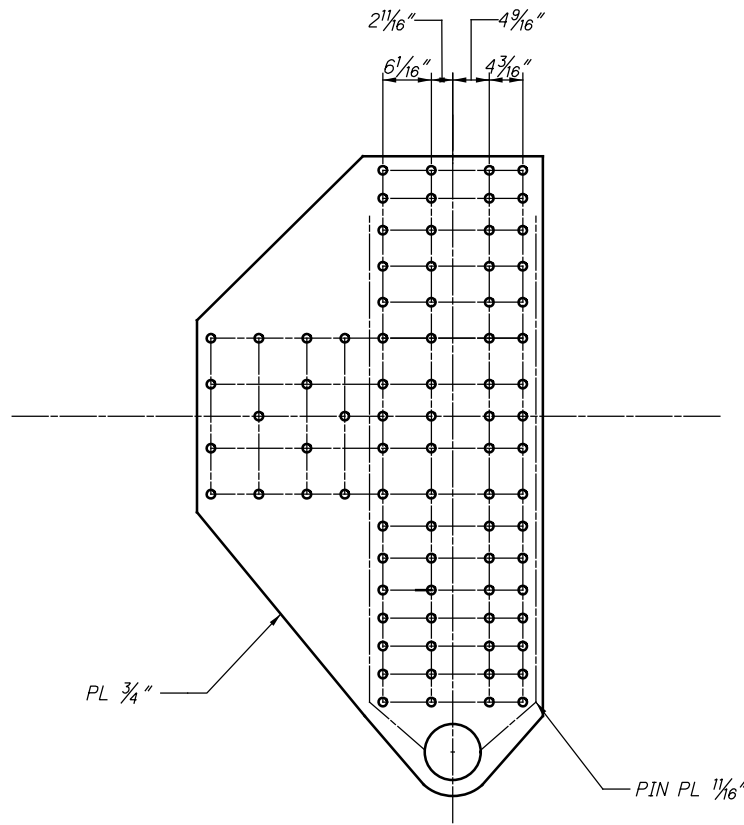
**L132 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**

21331
L5L6

← L5



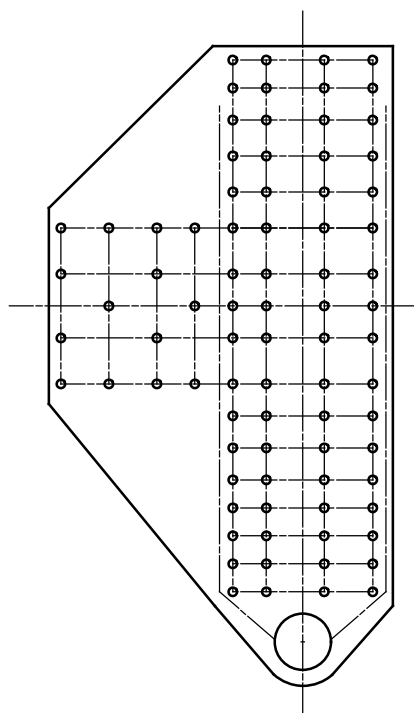
**L133 OUTSIDE (SPAN 19)
(NEAR SIDE)**



**L133 OUTSIDE (SPAN 19)
(FAR SIDE)**

21333
U17L18

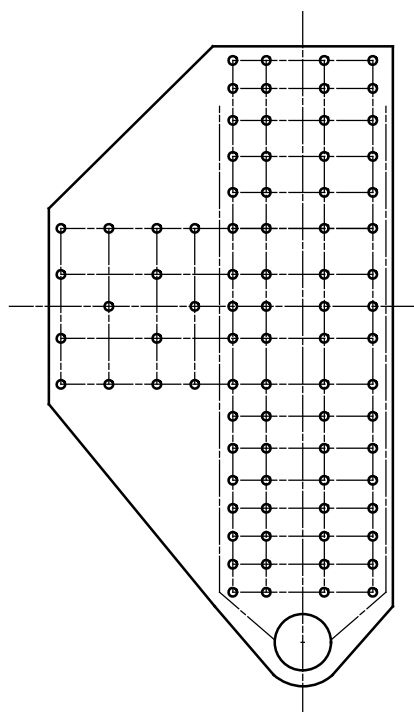
21331
L5L6



**L133 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

21333
U17L18

21331
L5L6

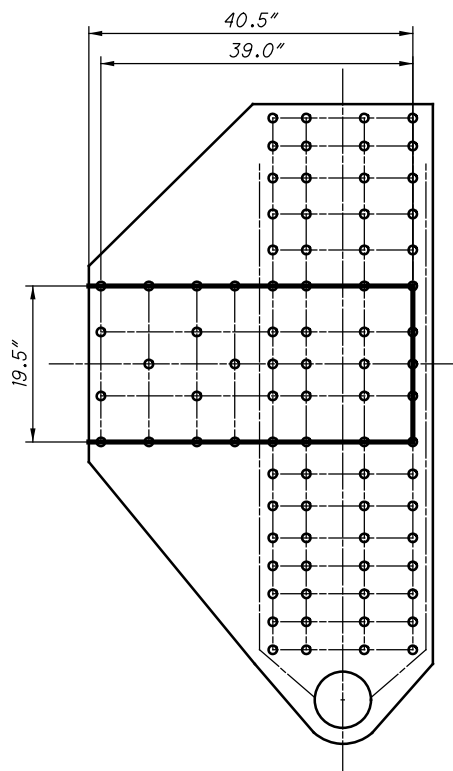


**L133 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

34 RIVETS
x 2 PLATES
=68 RIVETS

21331
L5L6

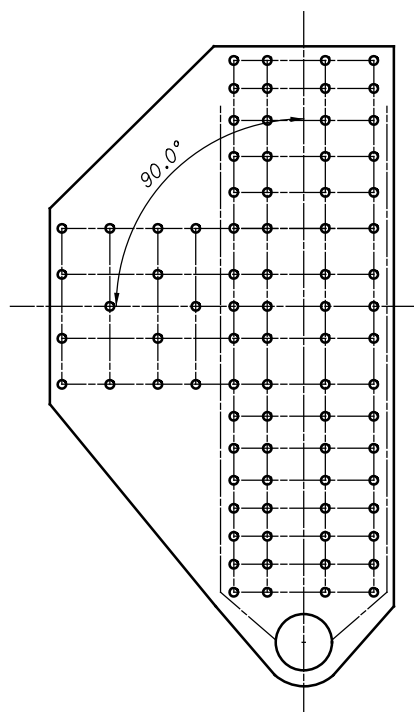
21333
U17L18



**L133 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

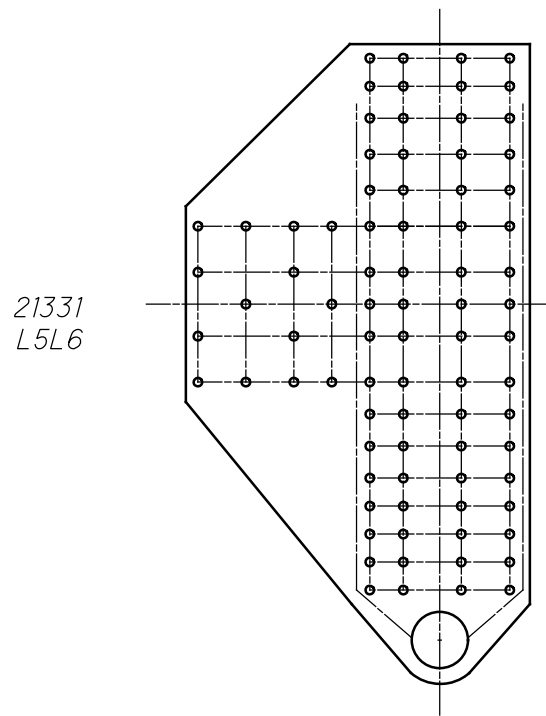
21333
U17L18

21331
L5L6



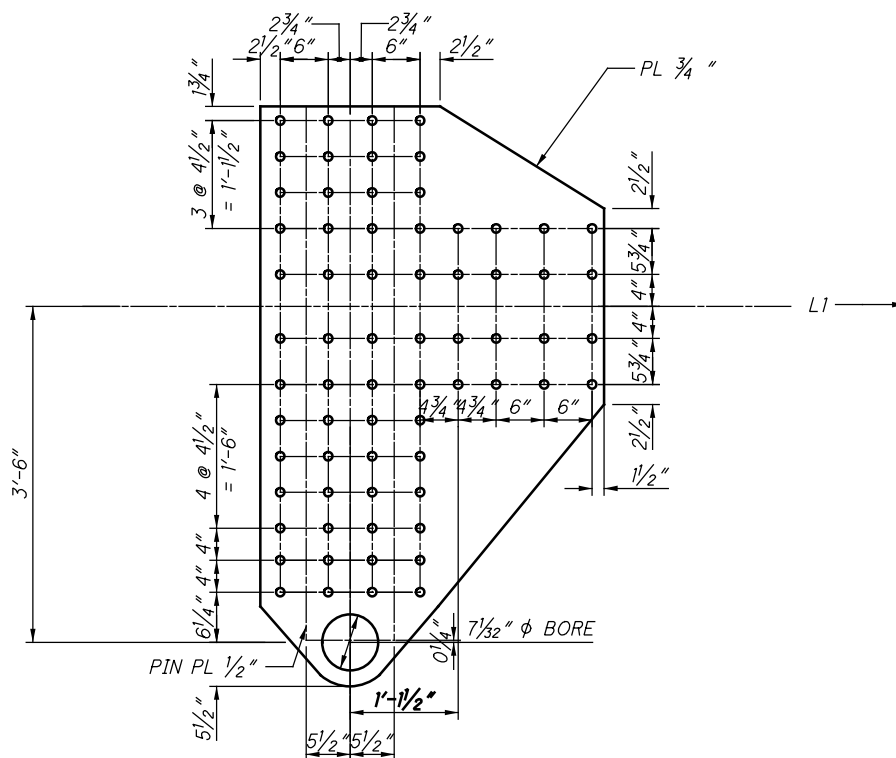
**L133 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

21333
U17L18



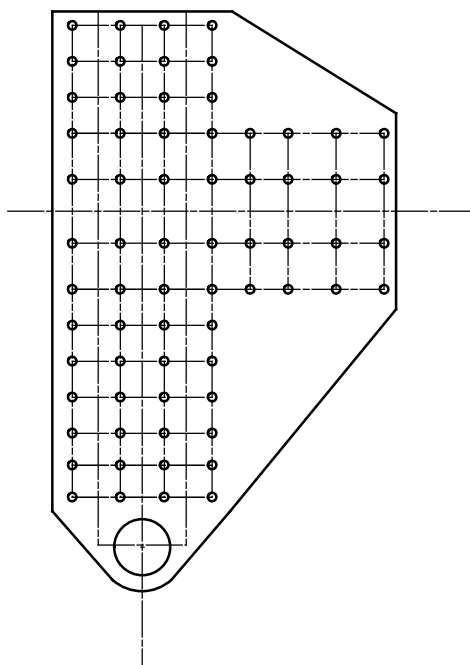
**L133 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**

21273
UOLO



**L127 INSIDE (SPAN 19)
(NEAR AND FAR SIDE)**

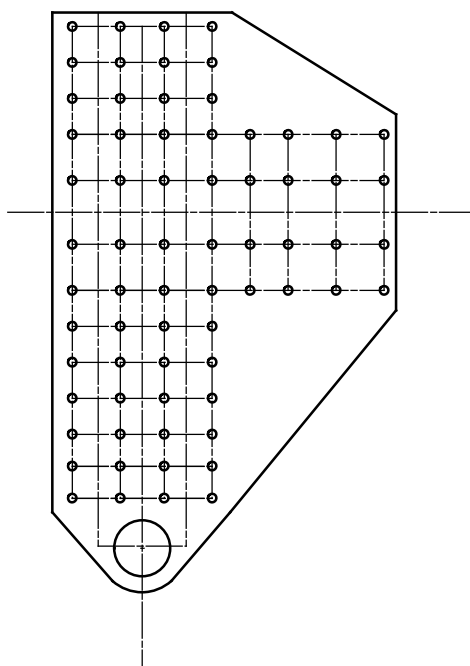
21273
UOL0



21275
LOL1

**L127 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

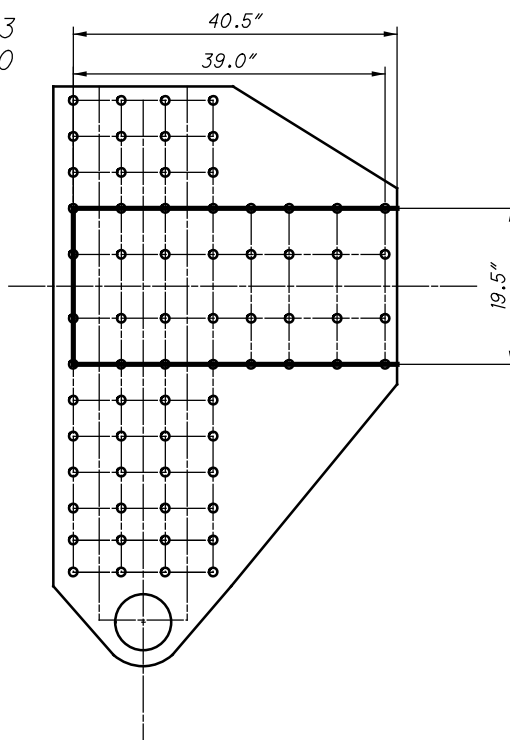
21273
UOL0



21275
LOL1

**L127 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

21273
UOL0

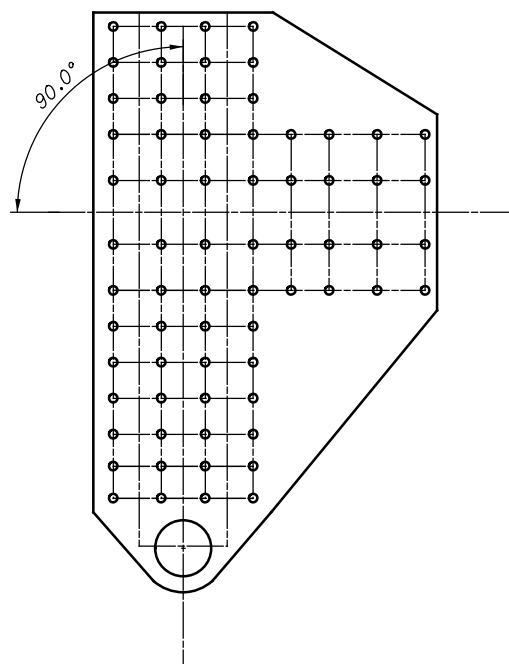


21275
L0L1

32 RIVETS
X 2 PLATES
=64 RIVETS

**L127 INSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

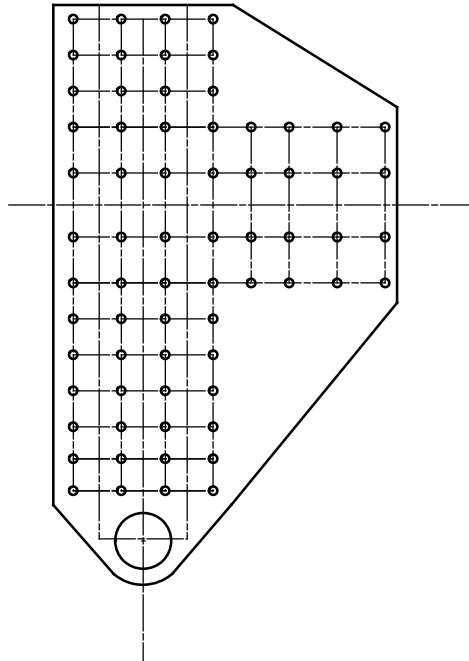
21273
UOL0



21275
L0L1

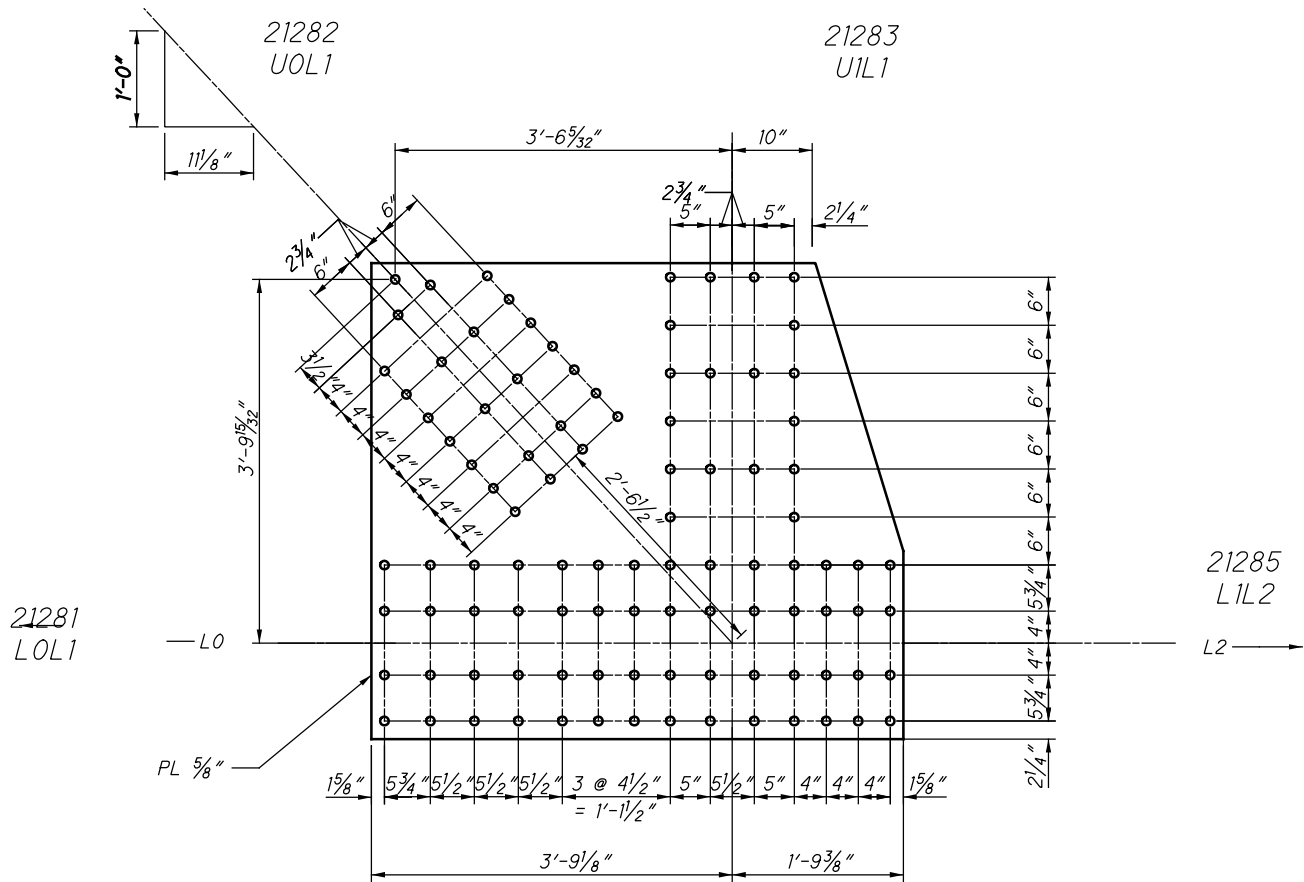
**L127 INSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

21273
UOLO



21275
LOL1

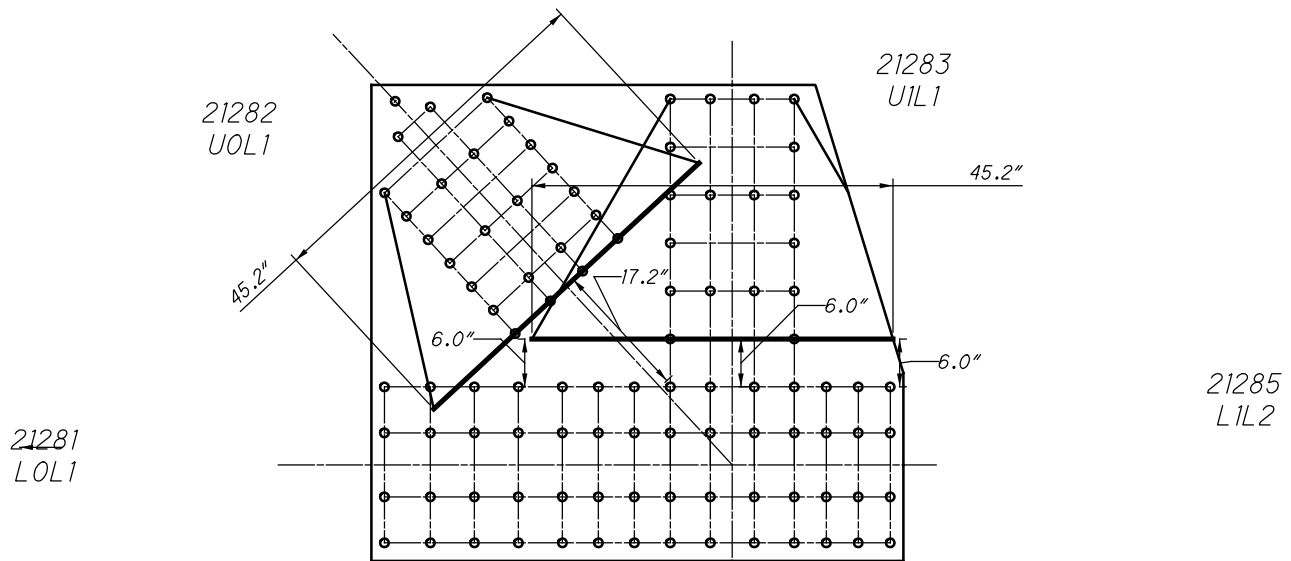
**L127 INSIDE (SPAN 19)
QUADRANT DIMENSIONS**



**L128 INSIDE (SPAN 19)
(NEAR AND FAR SIDE)**

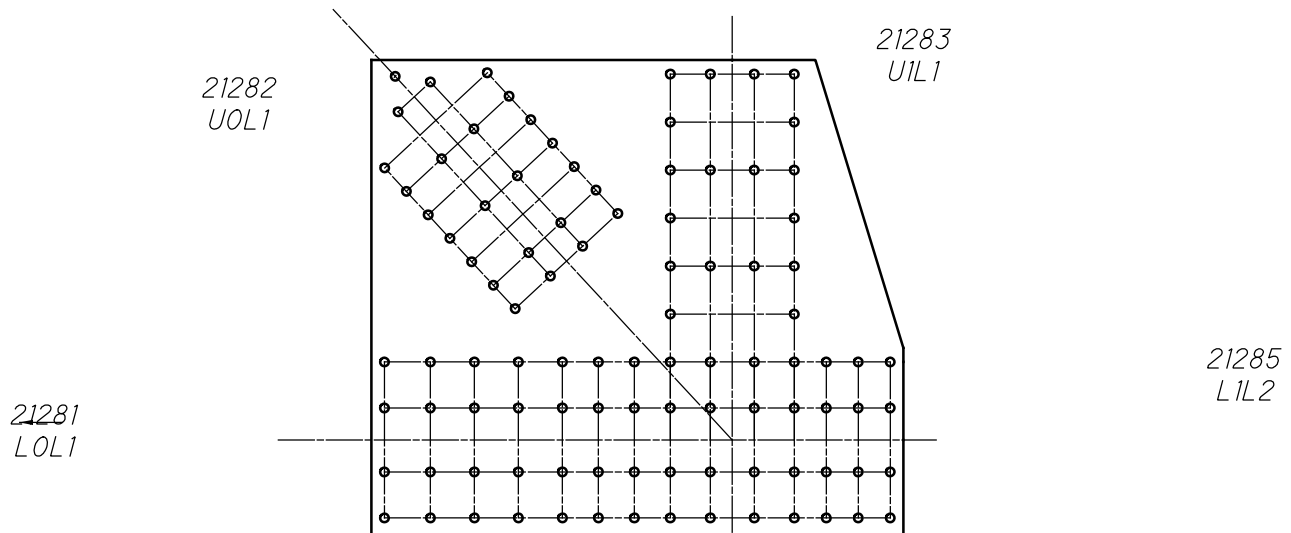
$L_c = 5.7''$

$L_c = 6.0''$

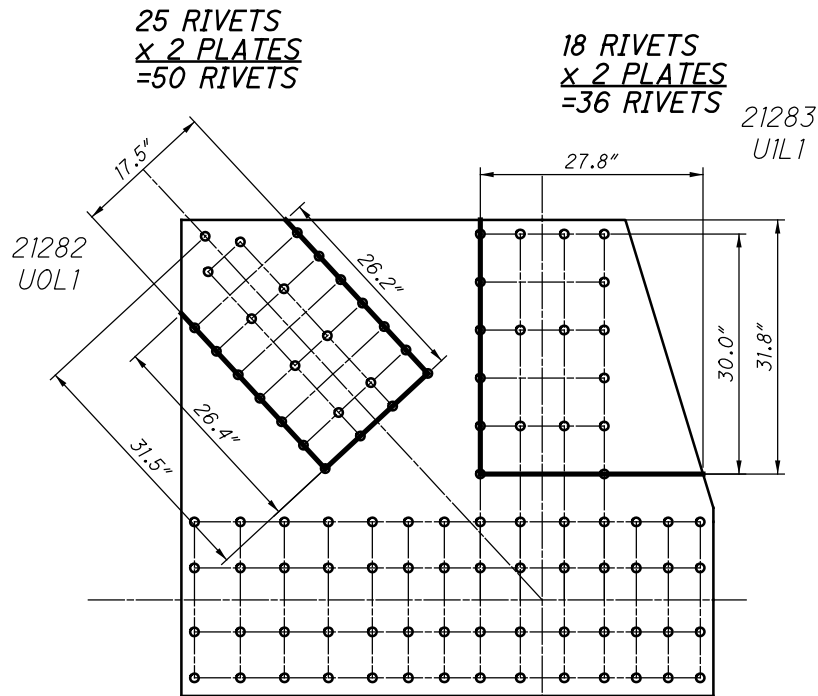


**L128 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

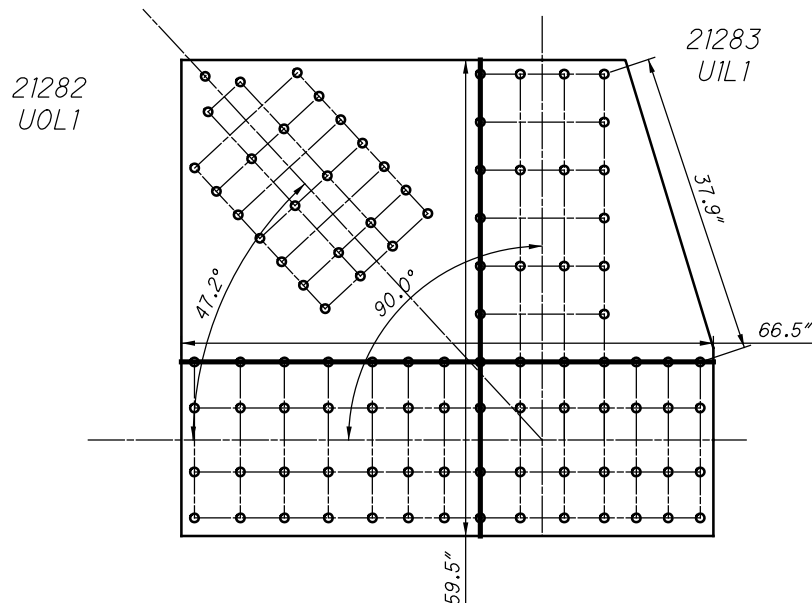
CHORD IS CONTINUOUS



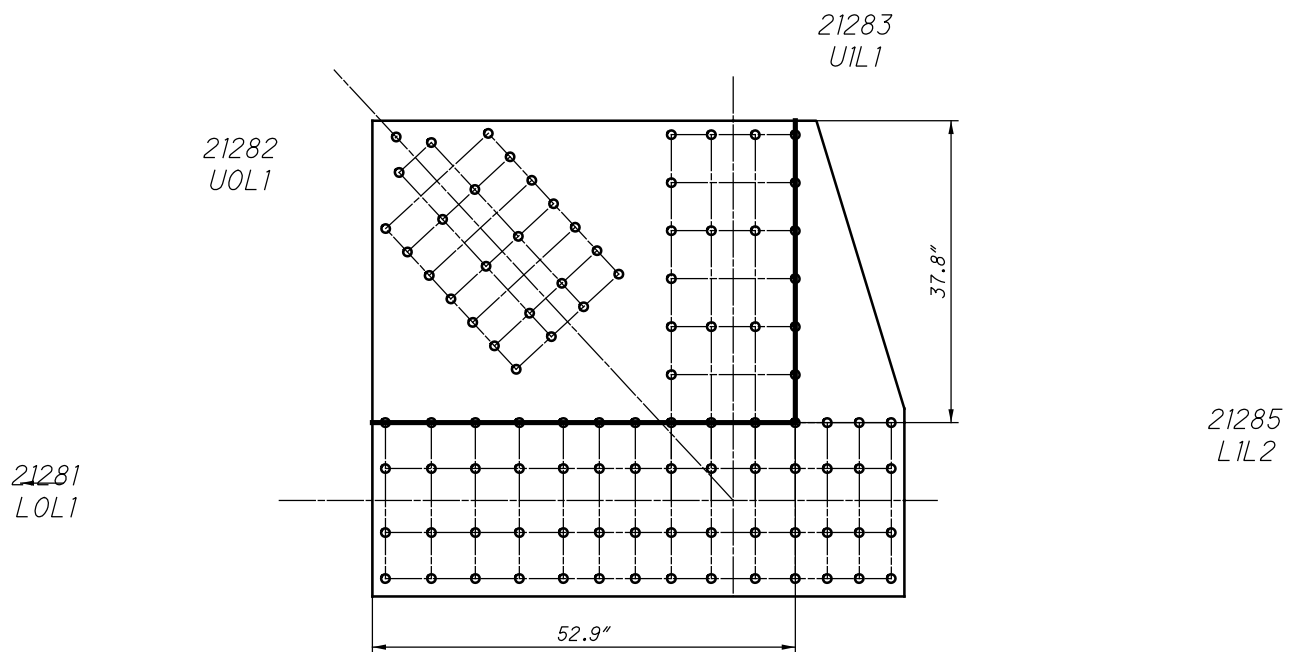
**L128 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**



**L128 INSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

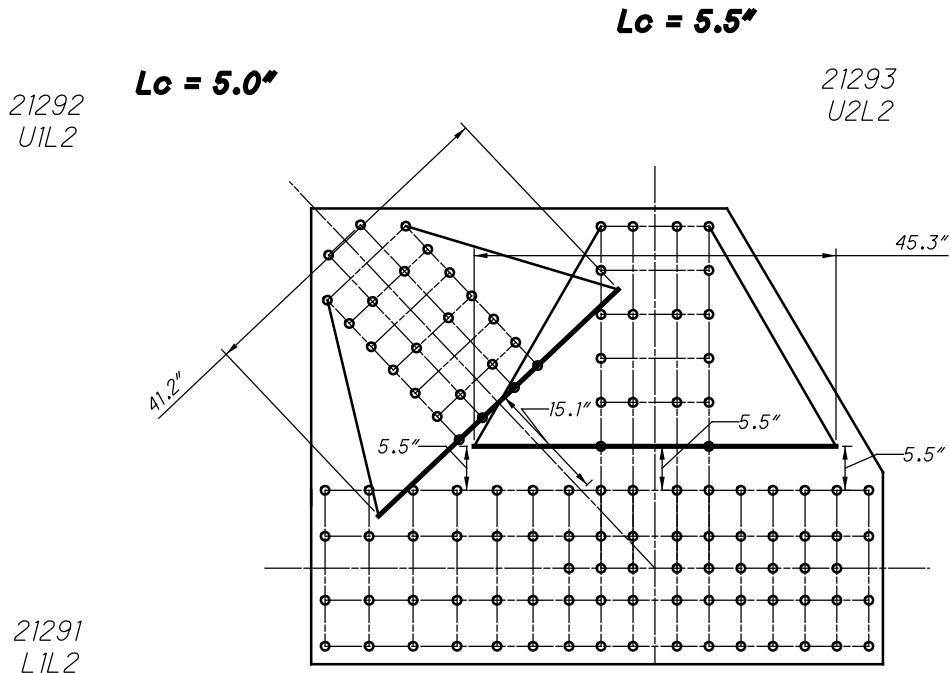


**L128 INSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

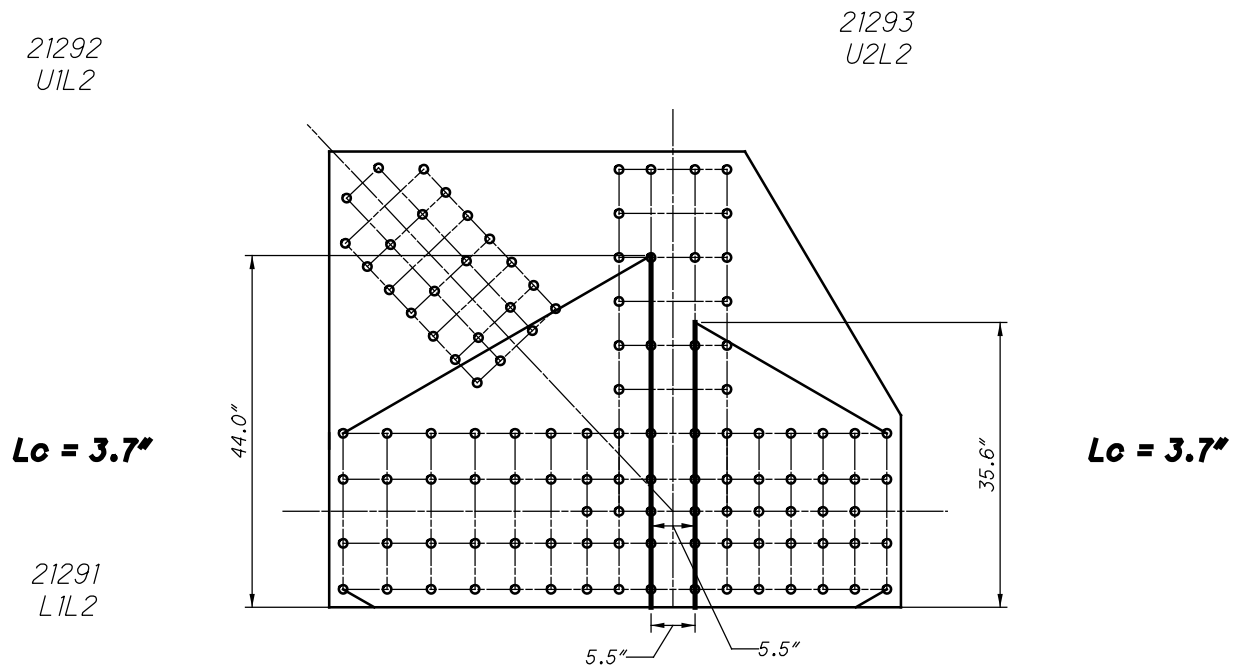


**L128 INSIDE (SPAN 19)
QUADRANT DIMENSIONS**

**L129 INSIDE (SPAN 19)
(NEAR AND FAR SIDE)**



**L129 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**



**L129 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

21292
U1L2

24 RIVETS
x 2 PLATES
=48 RIVETS

18 RIVETS
x 2 PLATES
=36 RIVETS

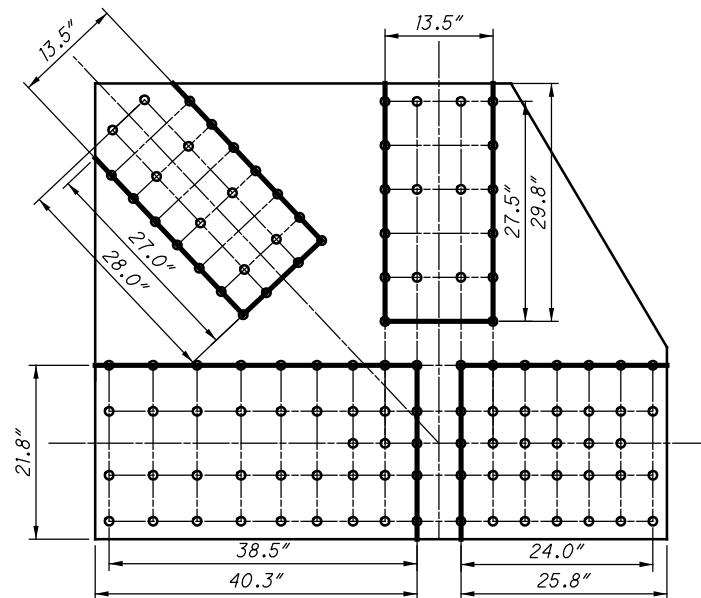
21293
U2L2

39 RIVETS
x 2 PLATES
=78 RIVETS

34 RIVETS
x 2 PLATES
=68 RIVETS

21291
L1L2

21295
L2L3



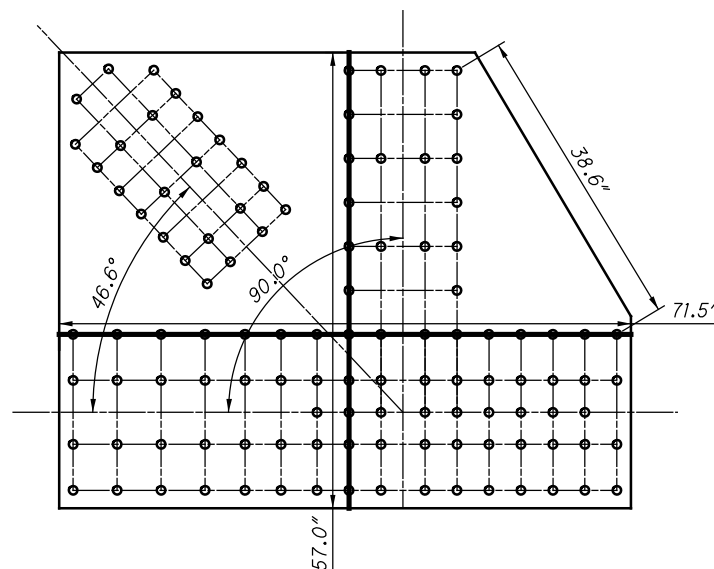
**L129 INSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

21292
U1L2

21293
U2L2

21291
L1L2

21295
L2L3



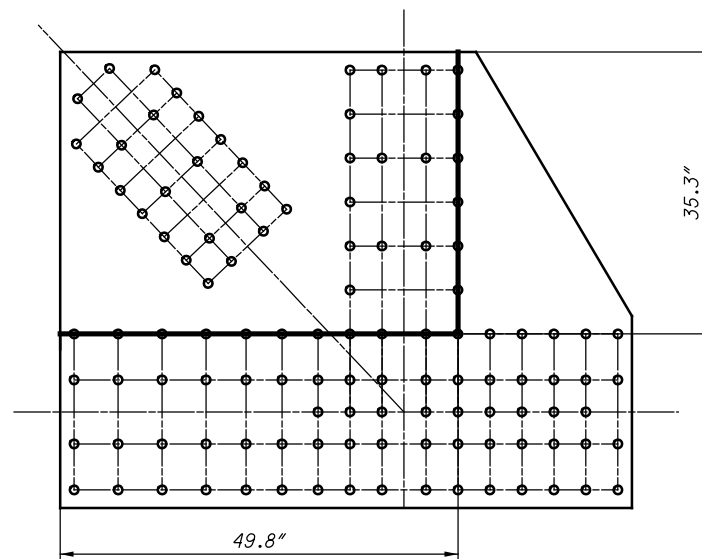
**L129 INSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

21292
U1L2

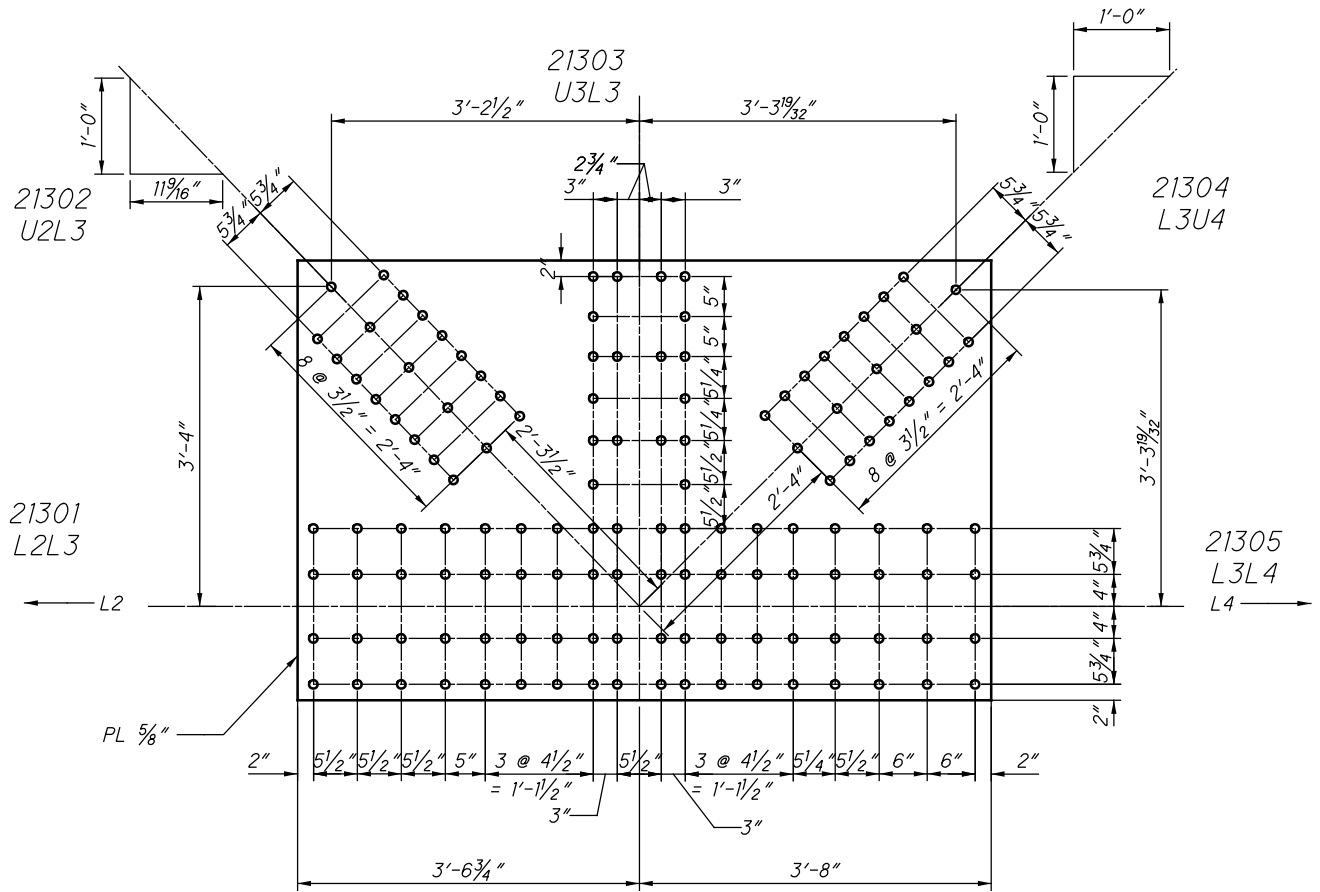
21293
U2L2

21291
L1L2

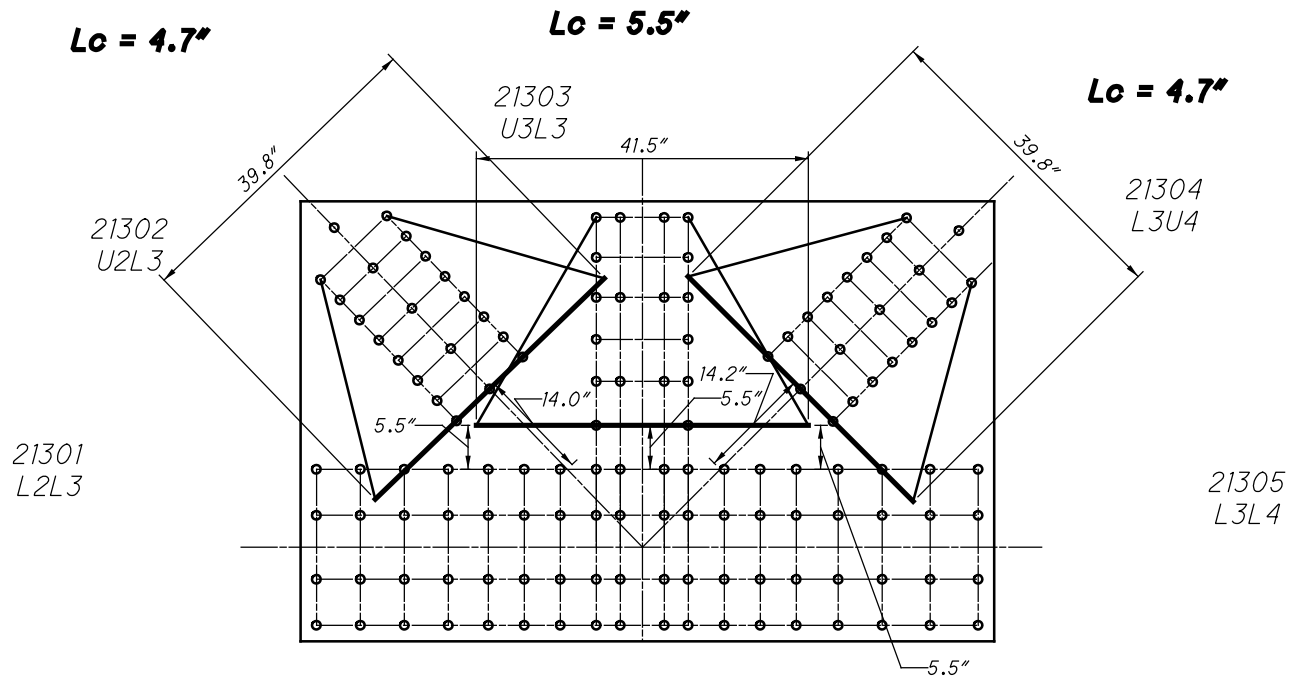
21295
L2L3



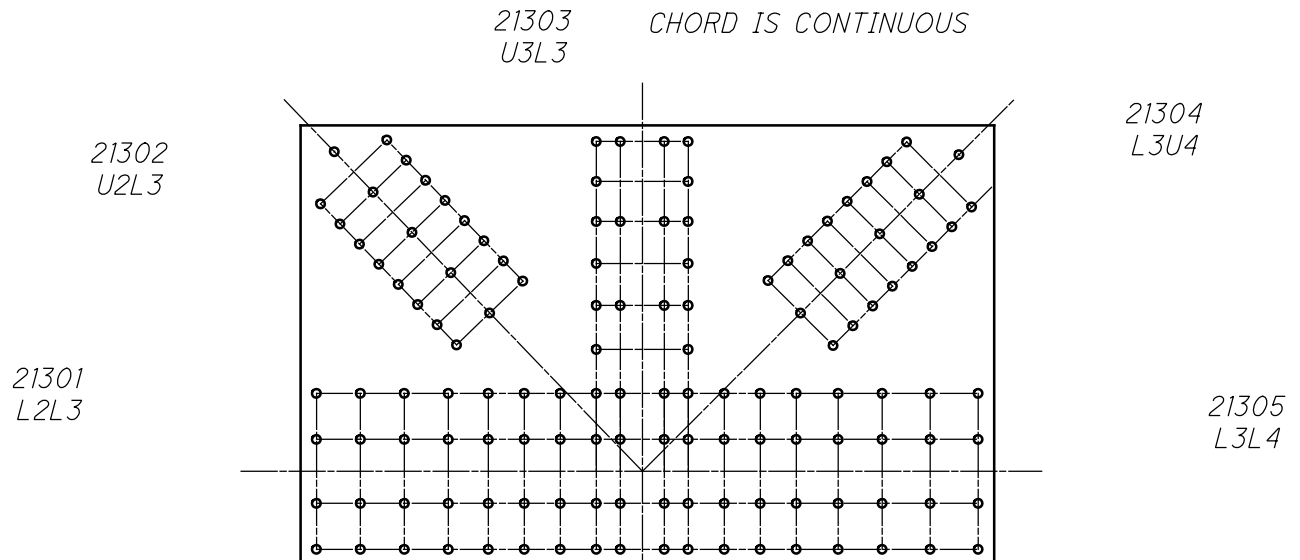
**L129 INSIDE (SPAN 19)
QUADRANT DIMENSIONS**



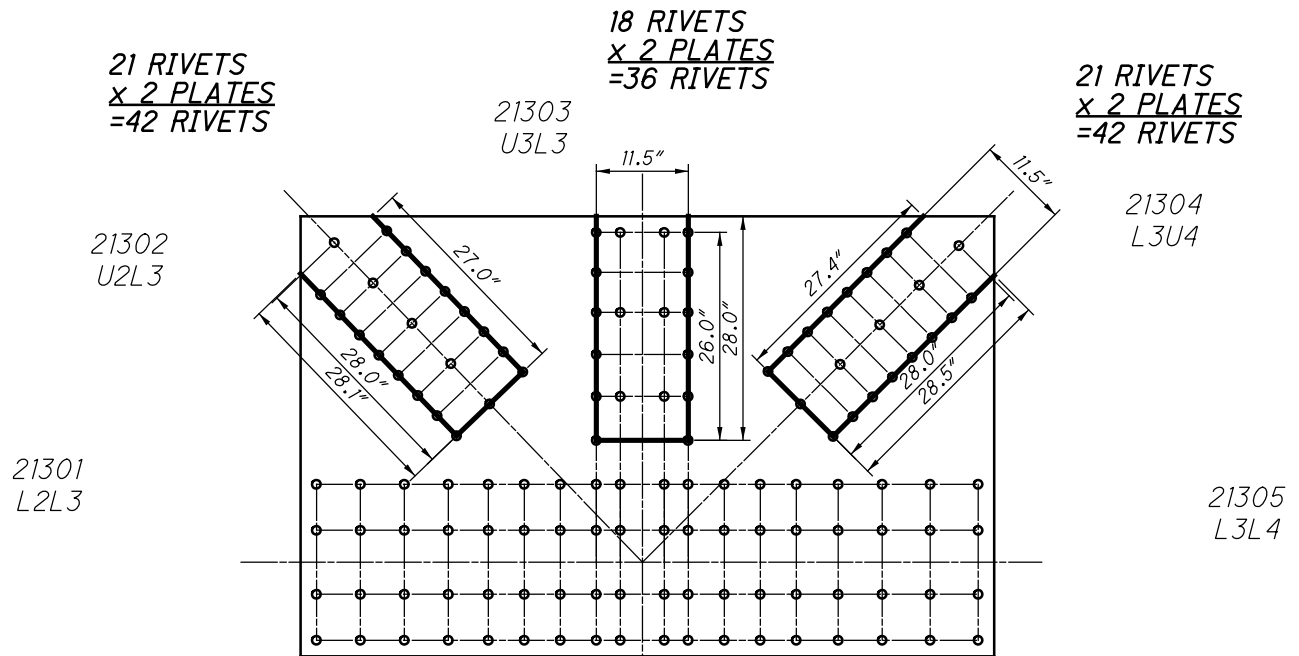
**L130 INSIDE (SPAN 19)
(NEAR AND FAR SIDE)**



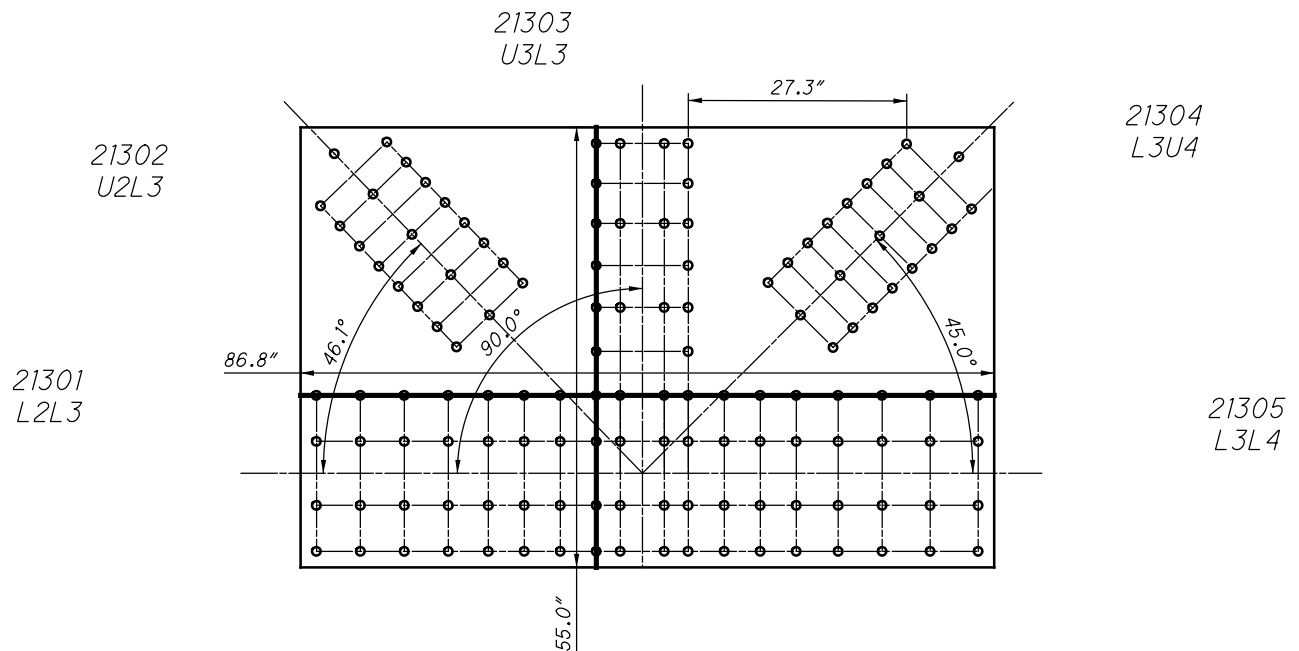
L130 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S



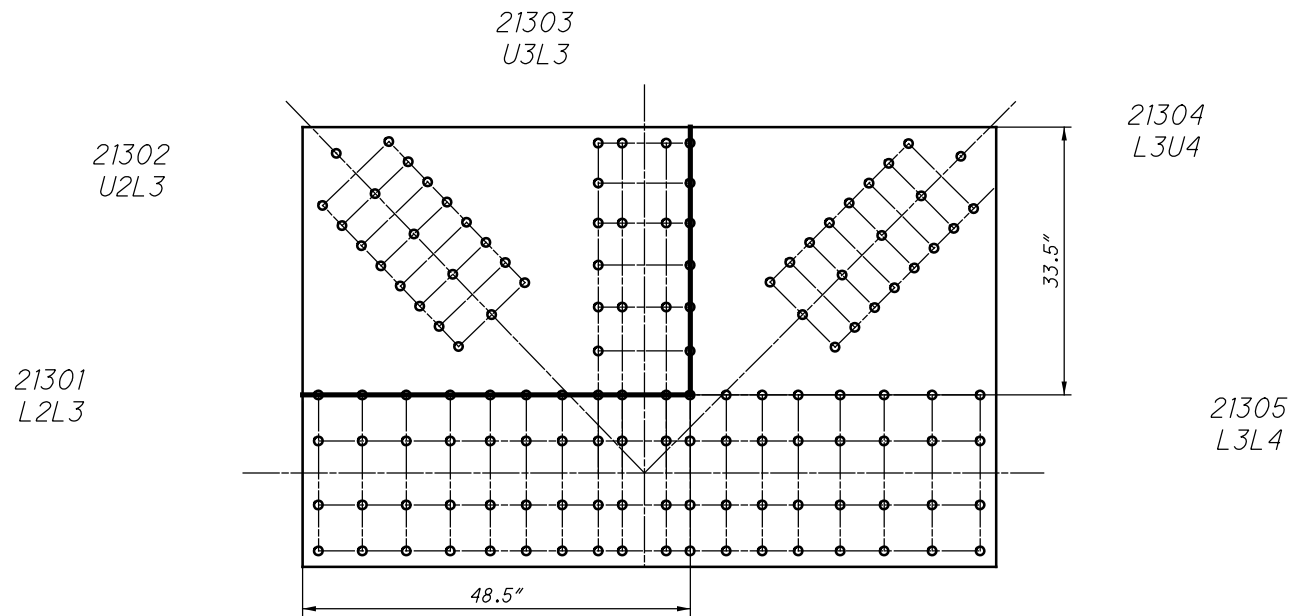
L130 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S



**L130 INSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

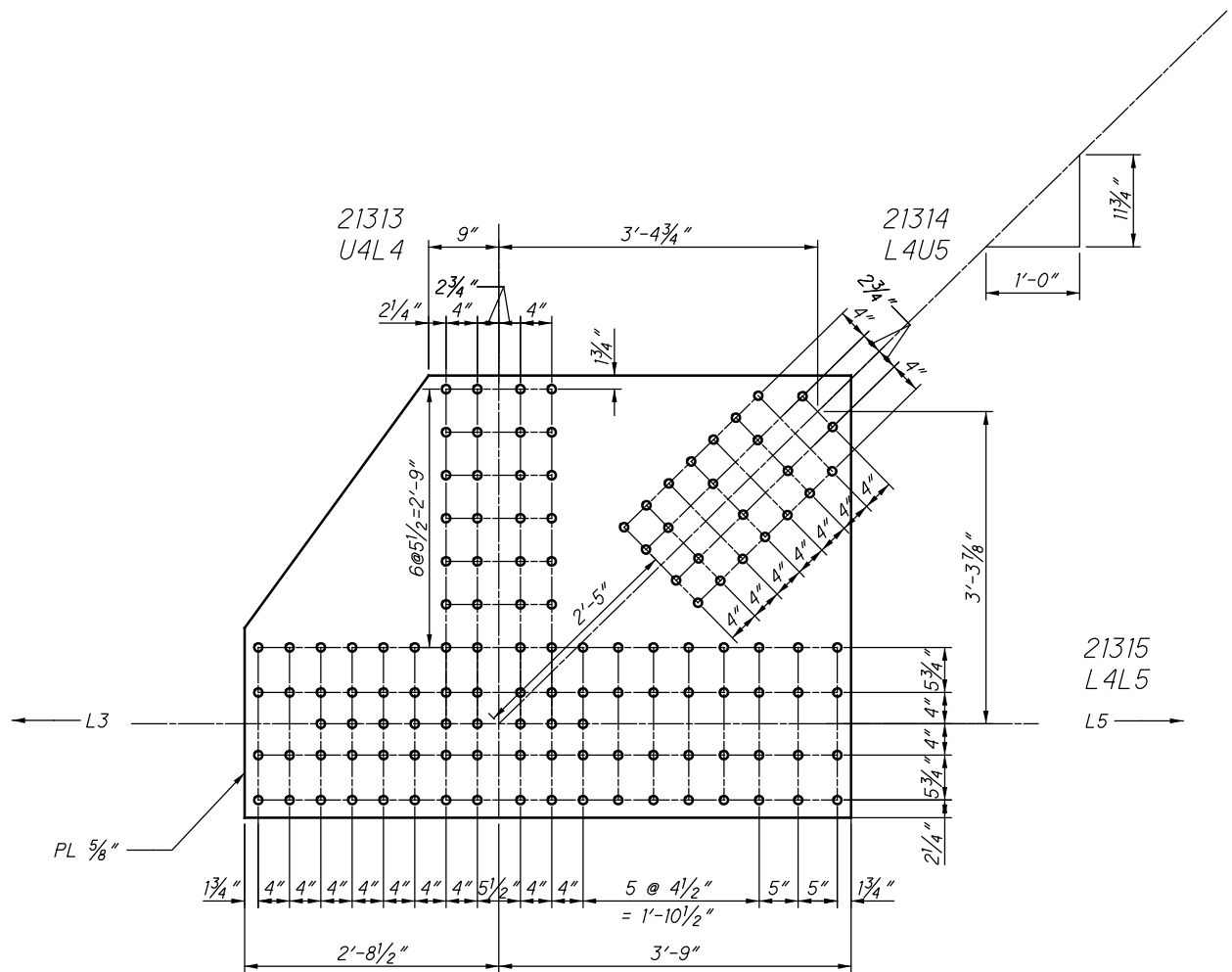


**L130 INSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**



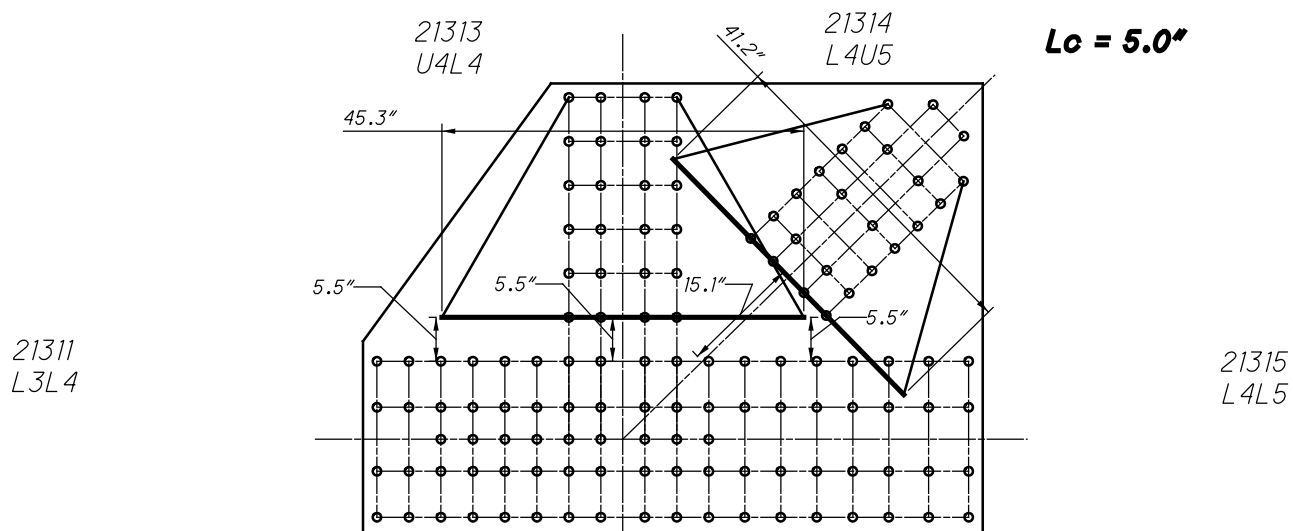
**L130 INSIDE (SPAN 19)
QUADRANT DIMENSIONS**

21315
L4L5

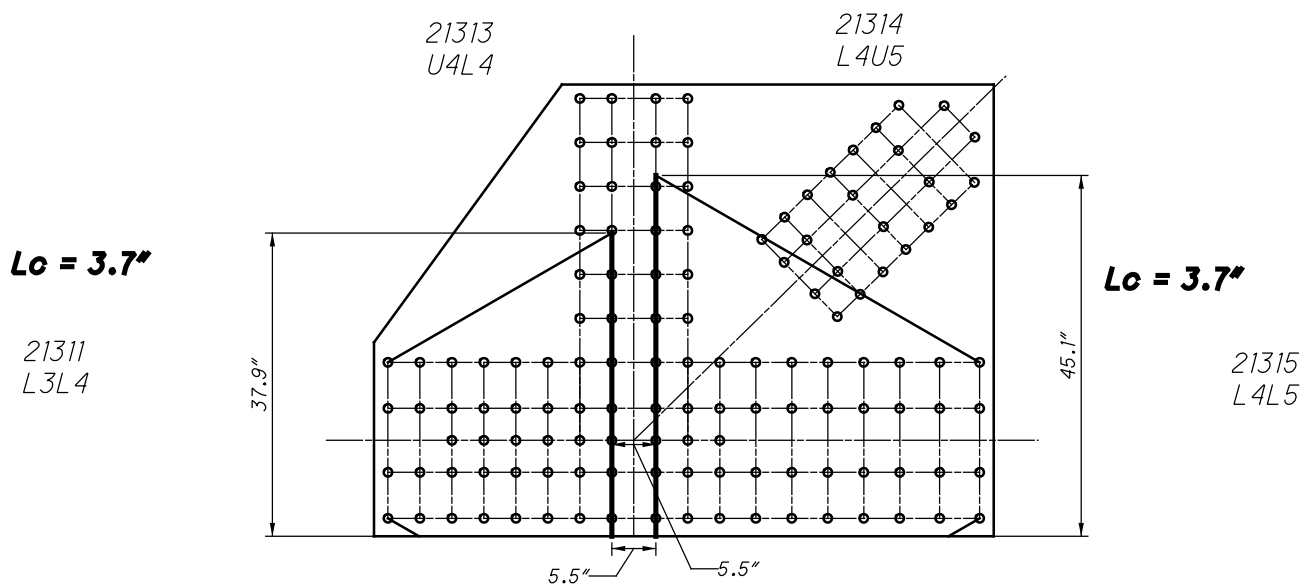


**L131 INSIDE (SPAN 19)
(NEAR AND FAR SIDE)**

$L_c = 5.5''$



**L131 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**



**L131 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

24 RIVETS
x 2 PLATES
=48 RIVETS

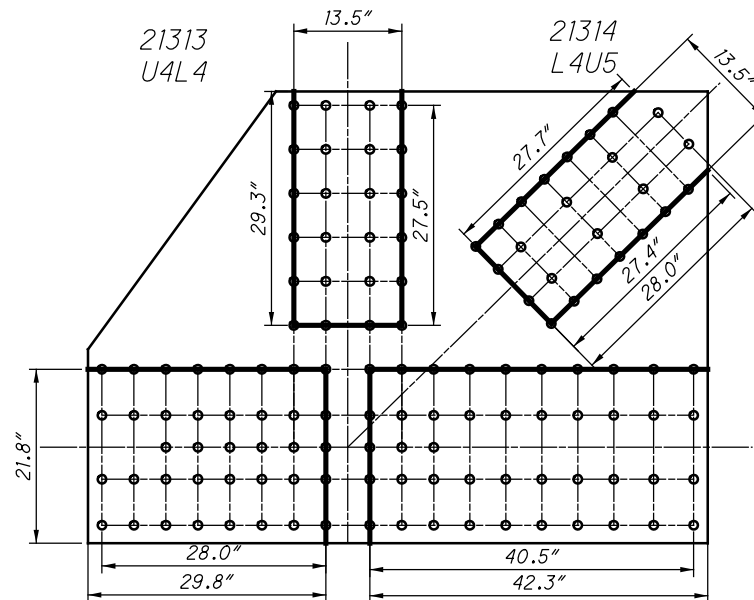
24 RIVETS
x 2 PLATES
=48 RIVETS

21311
L3L4

21315
L4L5

38 RIVETS
x 2 PLATES
=76 RIVETS

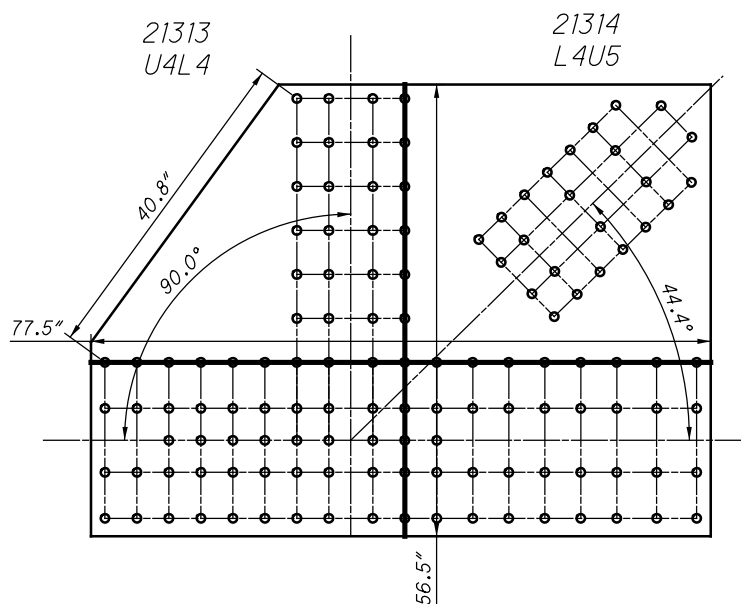
43 RIVETS
x 2 PLATES
=86 RIVETS



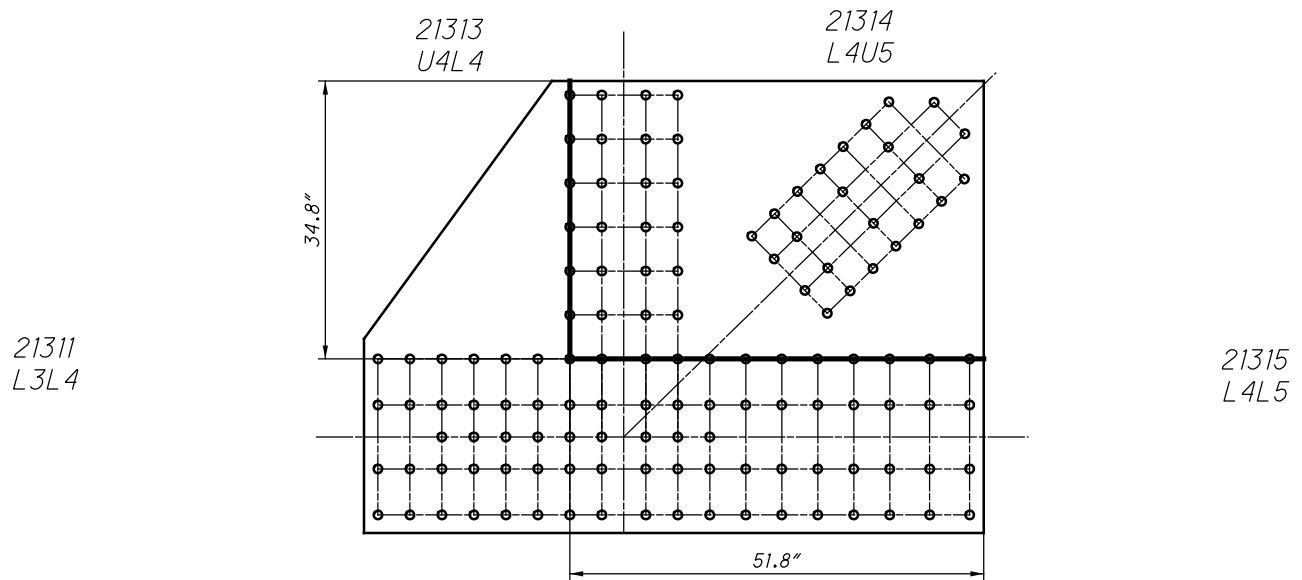
**L131 INSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

21311
L3L4

21315
L4L5



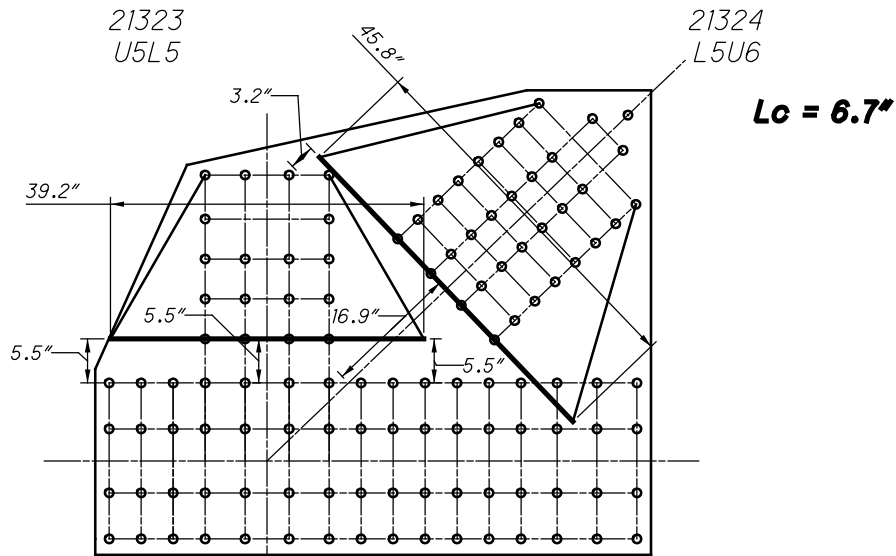
**L131 INSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**



**L131 INSIDE (SPAN 19)
QUADRANT DIMENSIONS**

**L132 INSIDE (SPAN 19)
(NEAR AND FAR SIDE)**

$L_c = 5.5''$



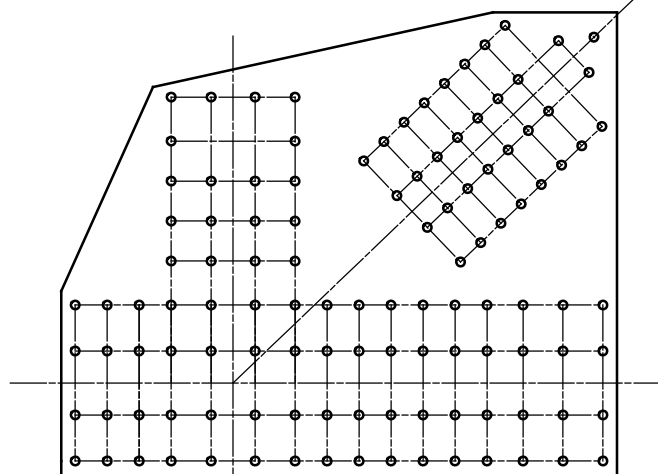
**L132 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

21323
U5L5

CHORD IS CONTINUOUS

21324
L5U6

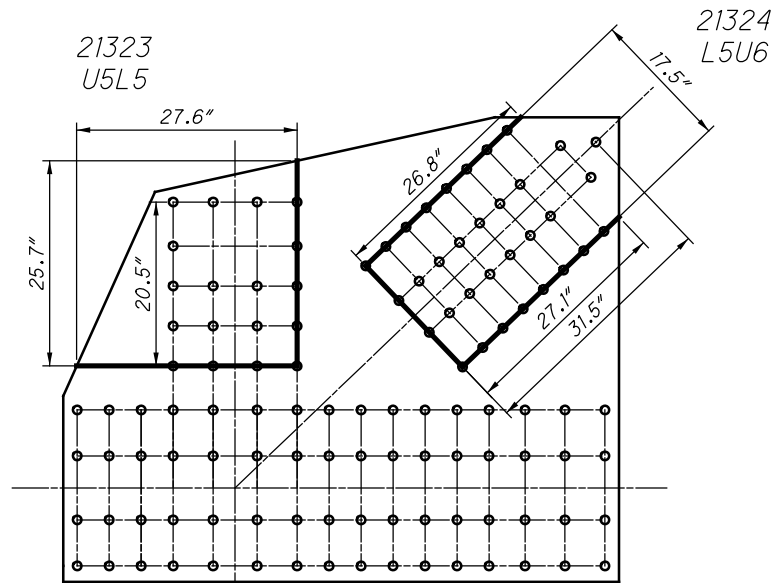
21321
L4L5



21325
L5L6

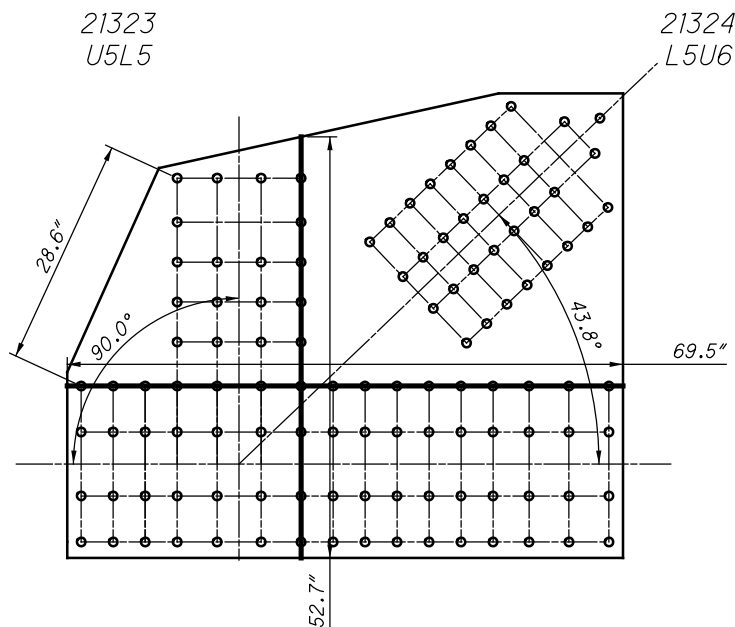
**L132 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

18 RIVETS
x 2 PLATES
=36 RIVETS

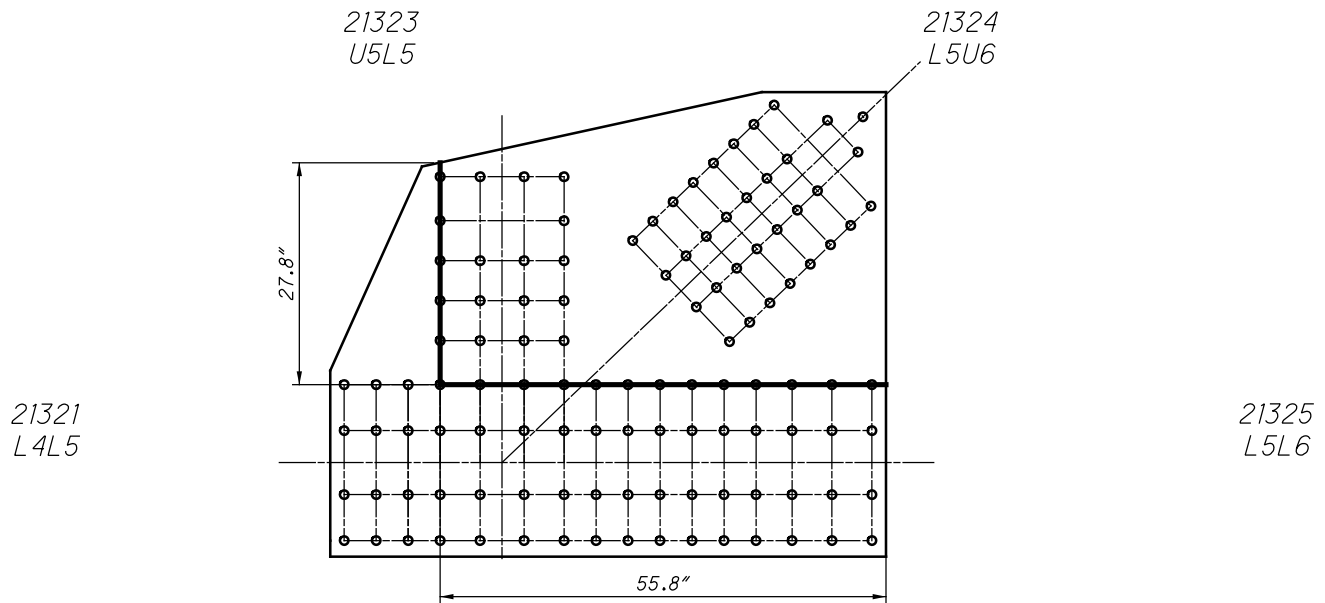


33 RIVETS
x 2 PLATES
=66 RIVETS

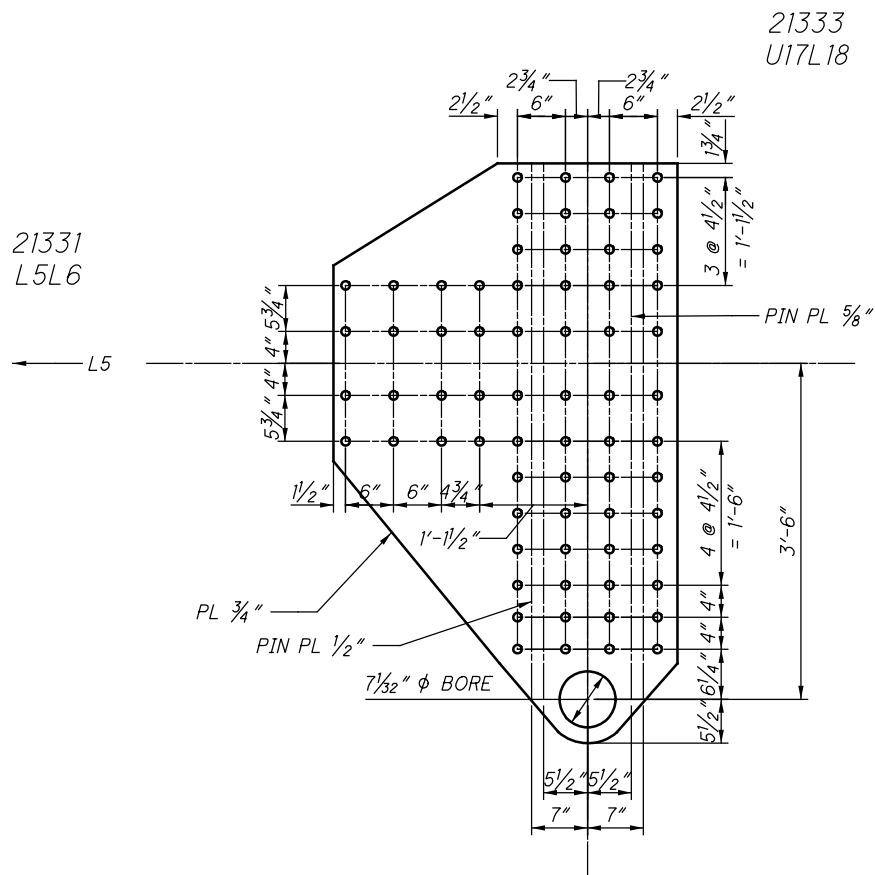
**L132 INSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**



**L132 INSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**



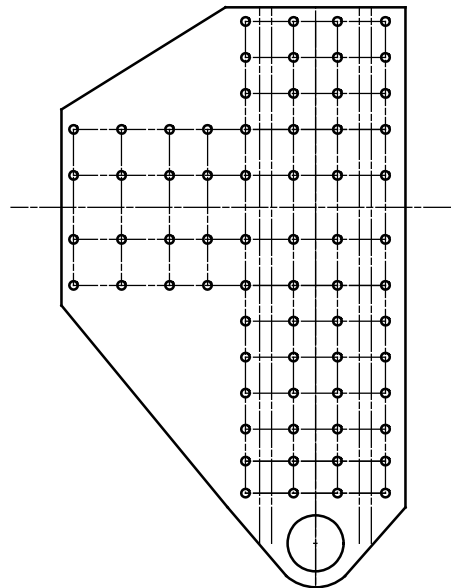
**L132 INSIDE (SPAN 19)
QUADRANT DIMENSIONS**



**L133 INSIDE (SPAN 19)
(NEAR AND FAR SIDE)**

21333
U17L18

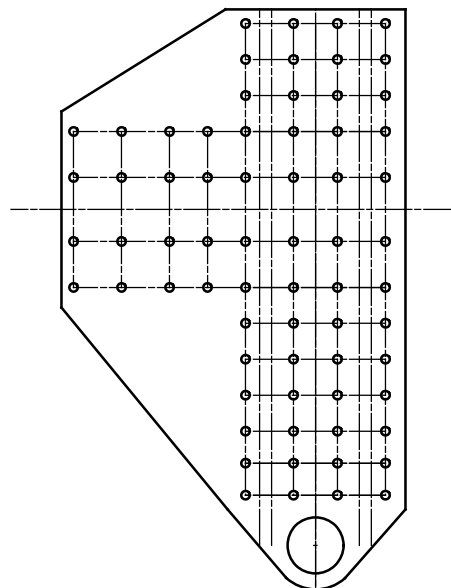
21331
L5L6



**L133 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

21333
U17L18

21331
L5L6

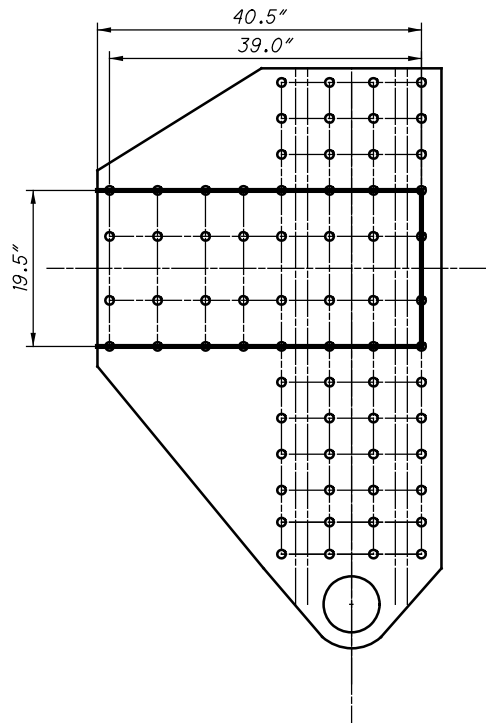


**L133 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

21333
U17L18

21331
L5L6

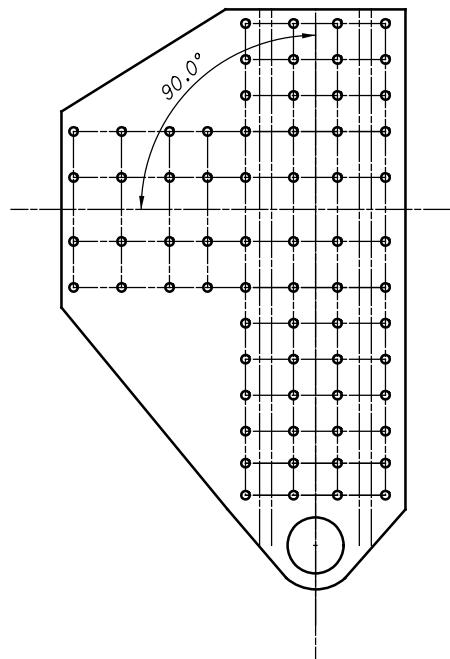
32 RIVETS
x 2 PLATES
= 64 RIVETS



**L133 INSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

21333
U17L18

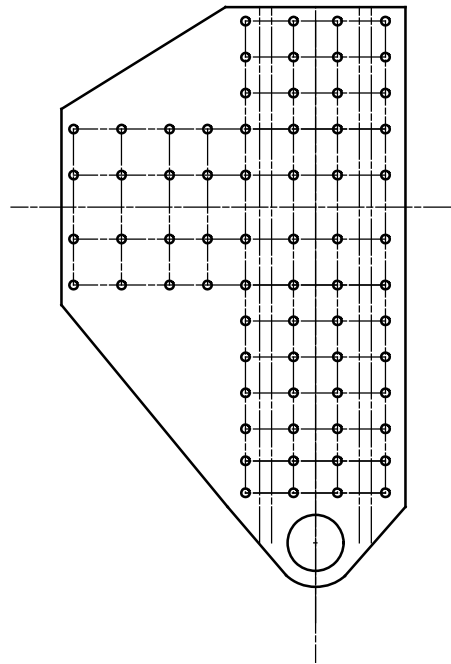
21331
L5L6



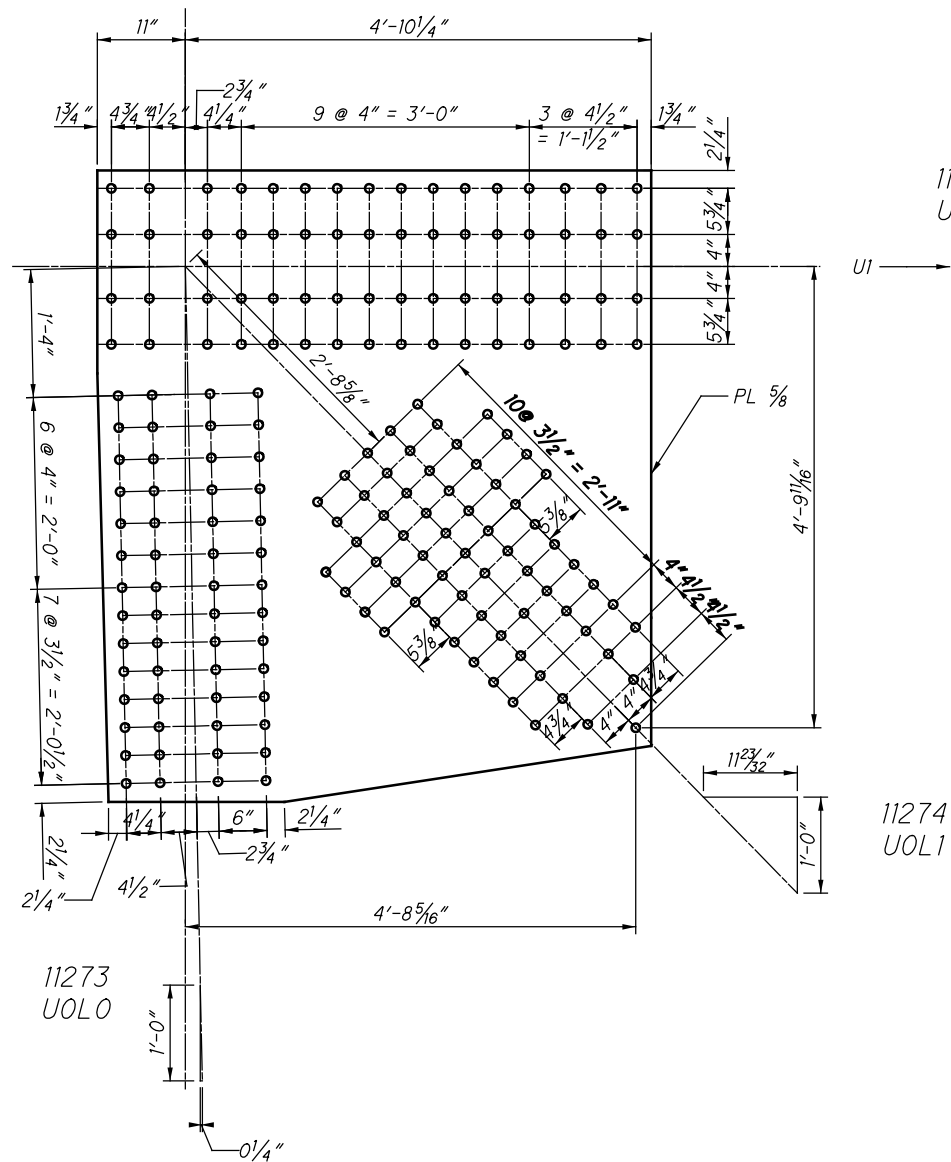
**L133 INSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

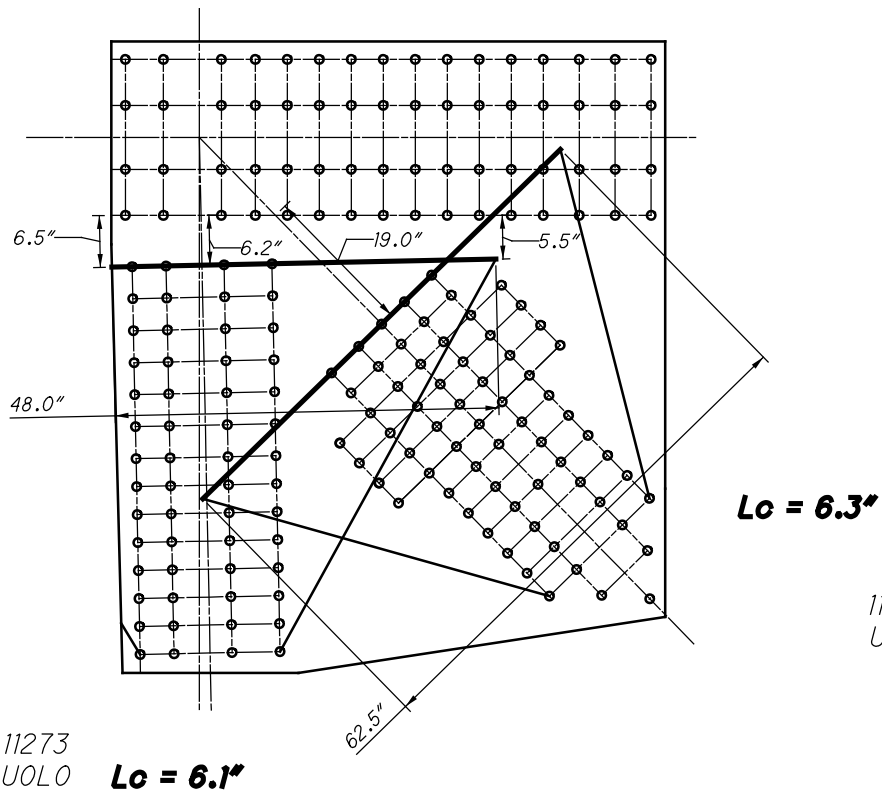
21333
U17L18

21331
L5L6



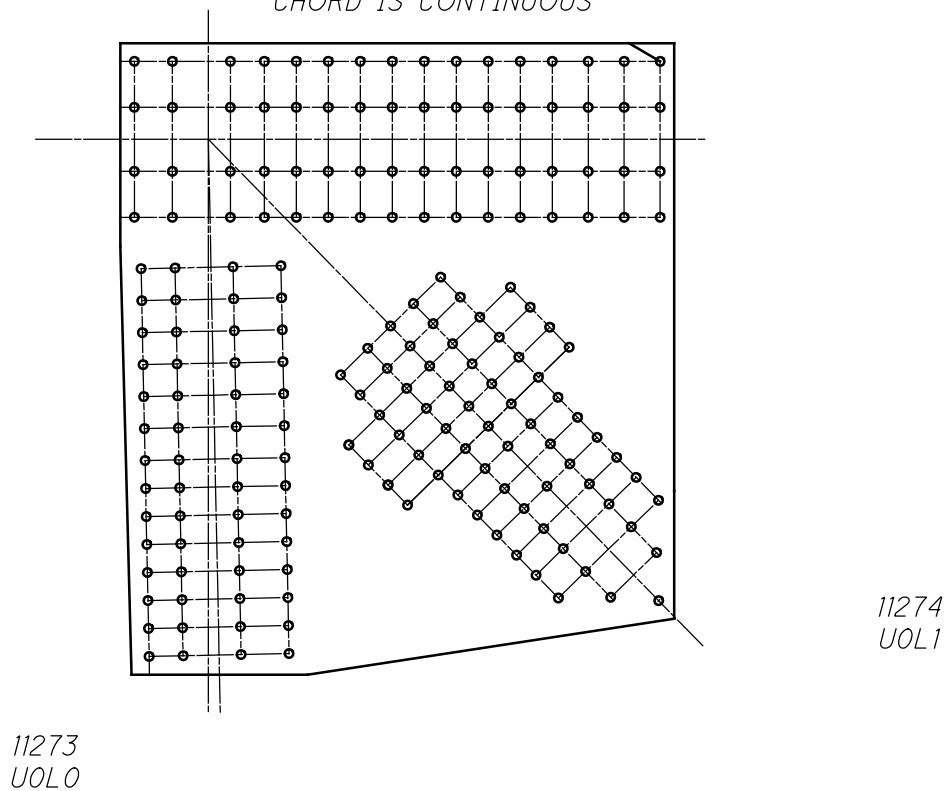
**L133 INSIDE (SPAN 19)
QUADRANT DIMENSIONS**





**U127 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

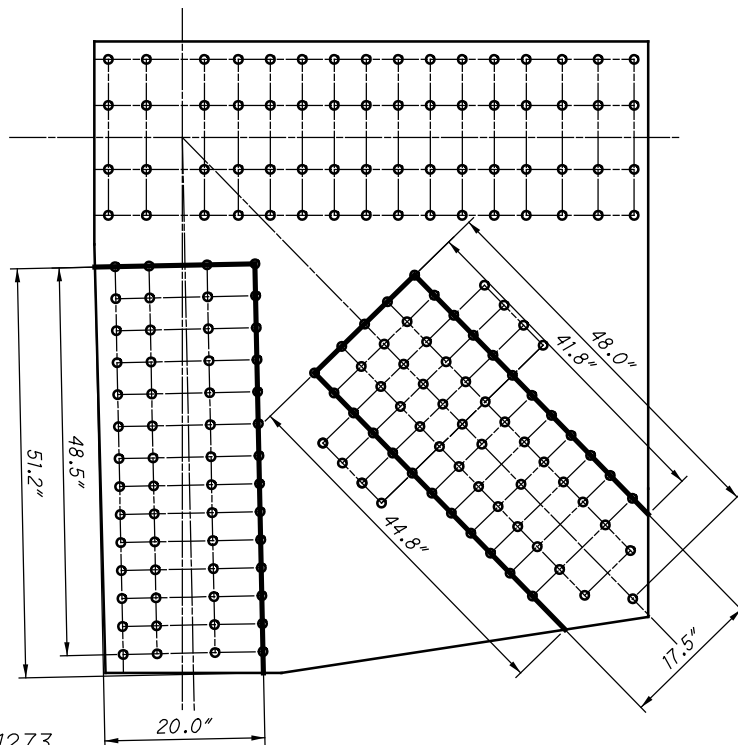
CHORD IS CONTINUOUS



**U127 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

56 RIVETS
x 2 PLATES
=112 RIVETS

11273
UOL0



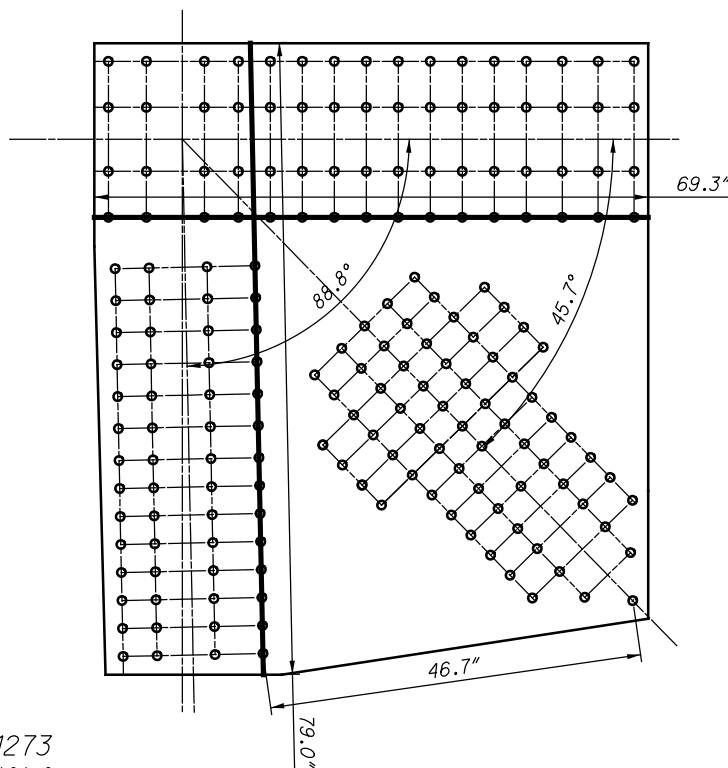
59 RIVETS
x 2 PLATES
=118 RIVETS

11274
UOL1

**U127 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

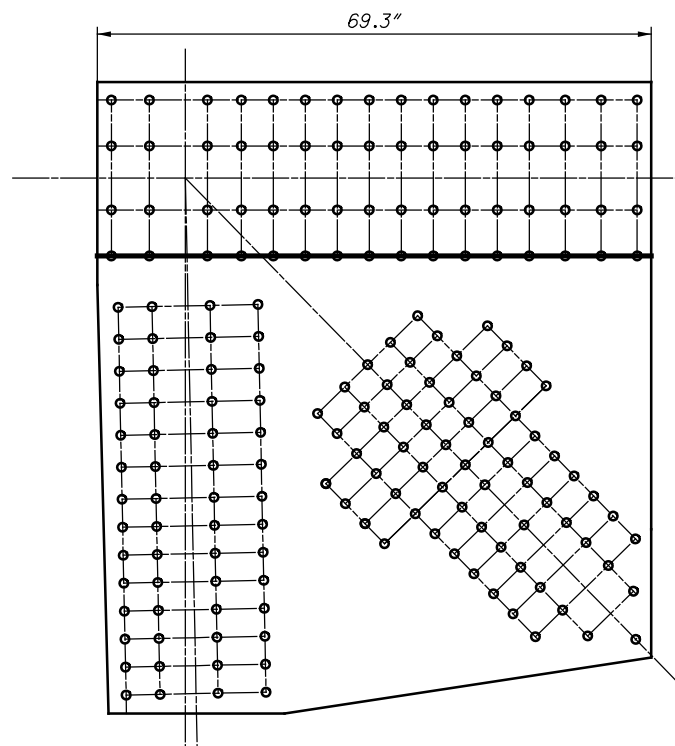
11275
UOU1

11273
UOL0



11274
UOL1

**U127 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**



11275
UOU1

11274
UOL1

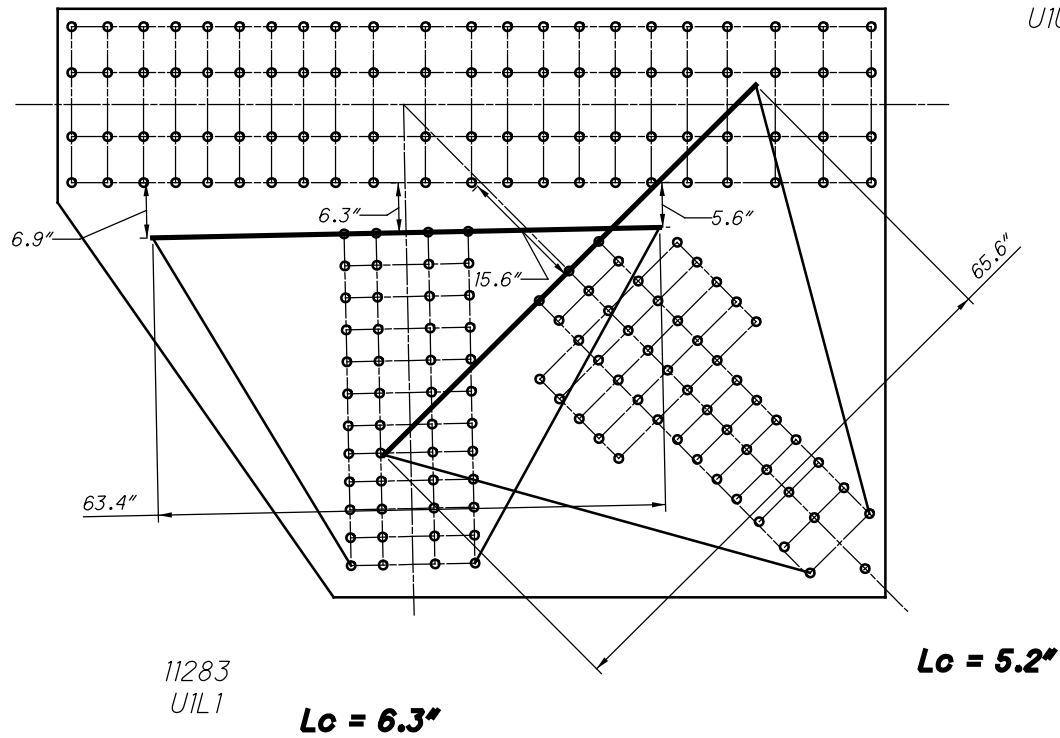
11273
UOL0

**U127 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**

11128 AND 41128

11281
UOU1

11285
UIU2

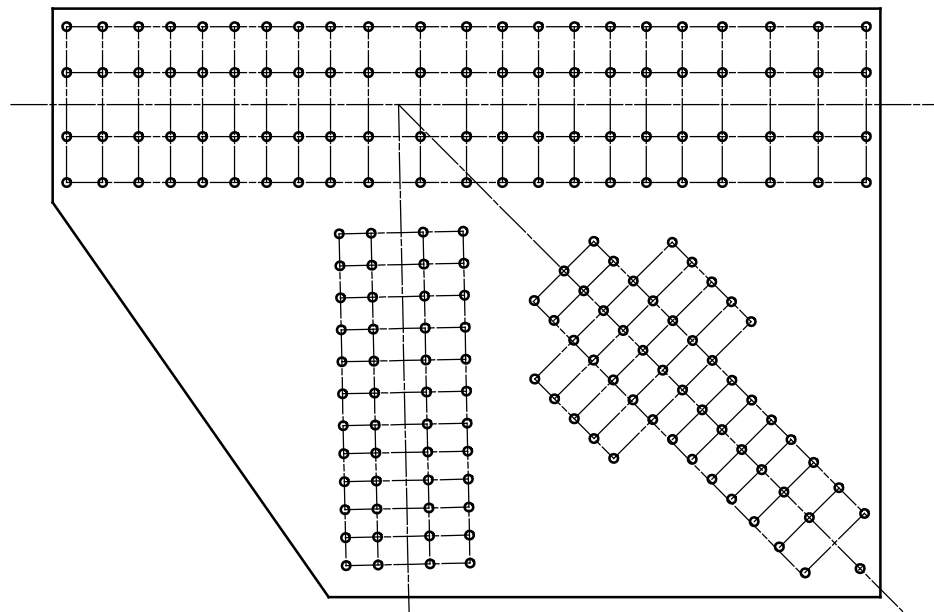


**U128 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

CHORD IS CONTINUOUS

11281
UOU1

11285
UIU2



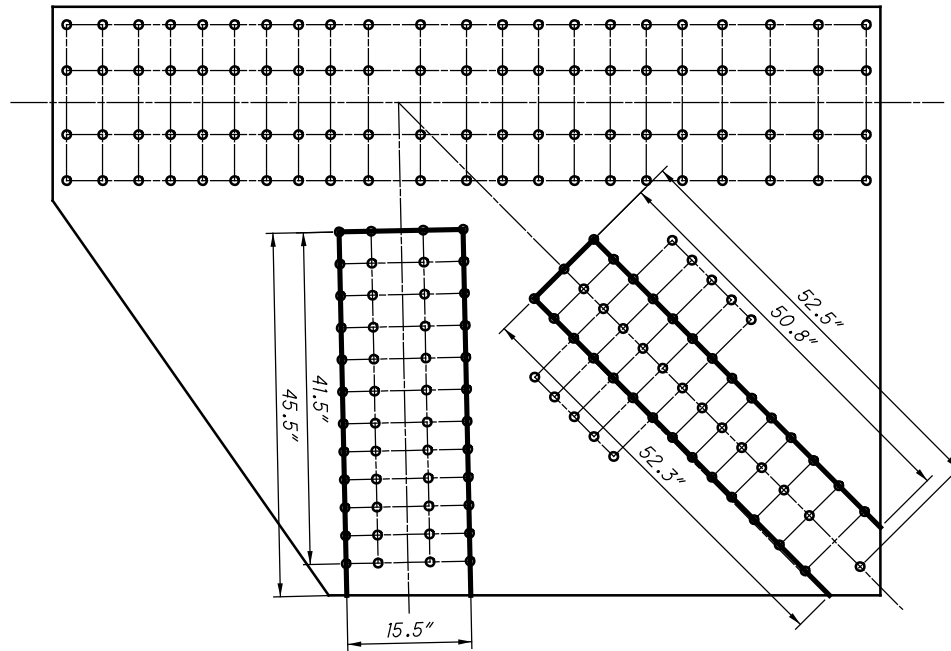
11284
UIL2

**U128 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

11128 AND 41128

11281
UOU1

11285
U1U2



11284
U1L2

11283
U1L1

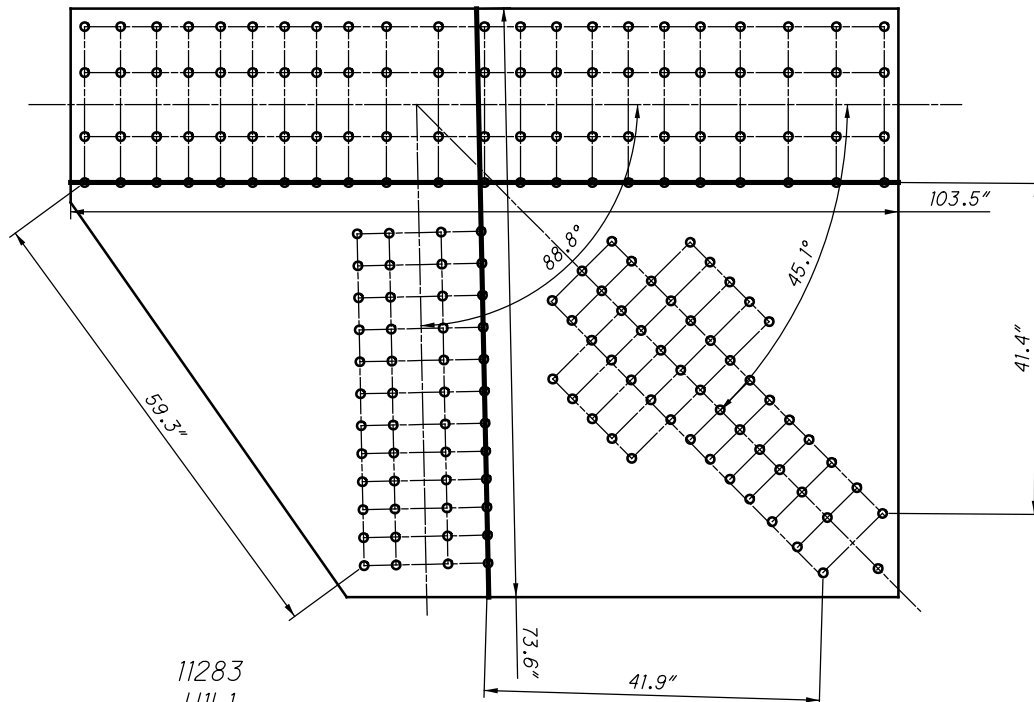
48 RIVETS
x 2 PLATES
=96 RIVETS

42 RIVETS
x 2 PLATES
=84 RIVETS

**U128 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

11281
UOU1

11285
U1U2



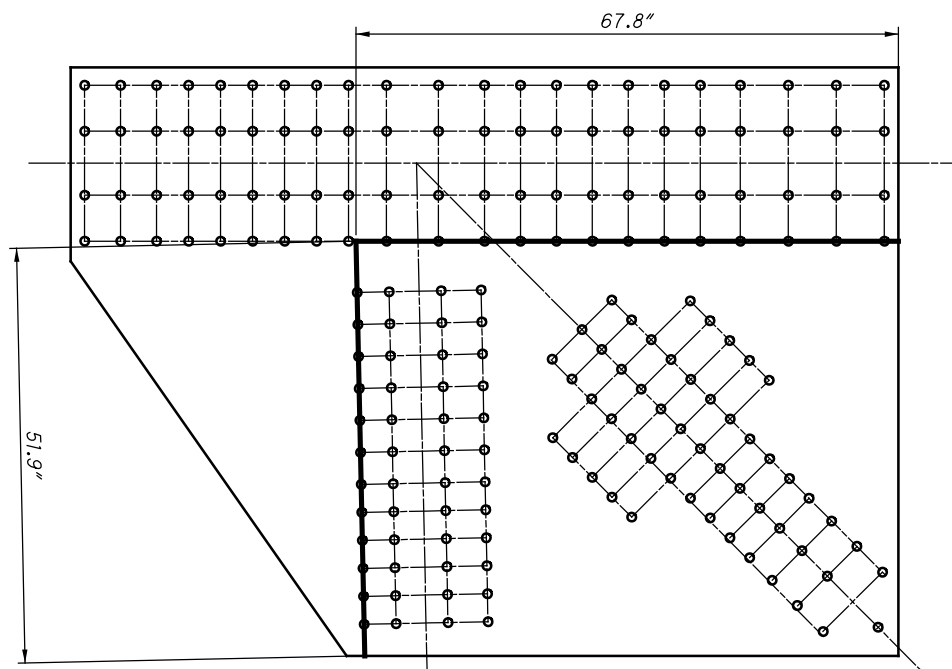
11284
U1L2

11283
U1L1

**U128 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

11281
UOU1

11285
U1U2



11284
U1L2

11283
U1L1

**U128 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**

11295
U2U3

 $-U1$

U3

PL 5/8" —

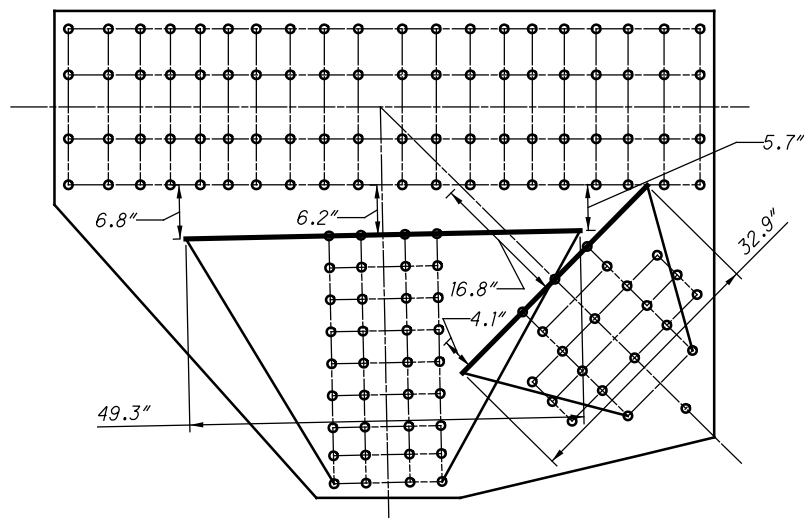
11293
U2L2

11294
U2L3

**U129 OUTSIDE (SPAN 19)
(NEAR AND FAR SIDE)**

11291
U1U2

11295
U2U3



11293
U2L2

11294
U2L3

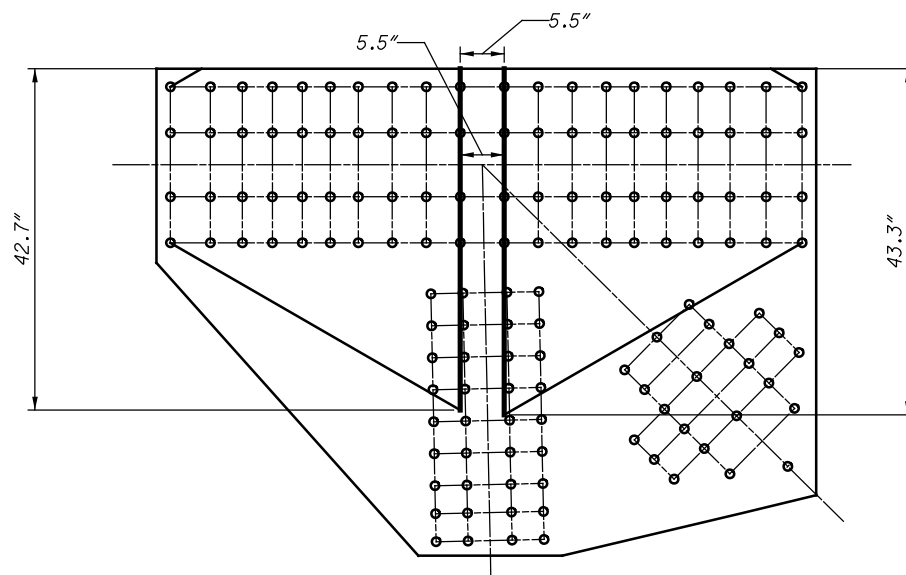
Lc = 7.0"

Lc = 6.2"

**U129 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

11291
U1U2

11295
U2U3



Lc = 3.7"

Lc = 3.7"

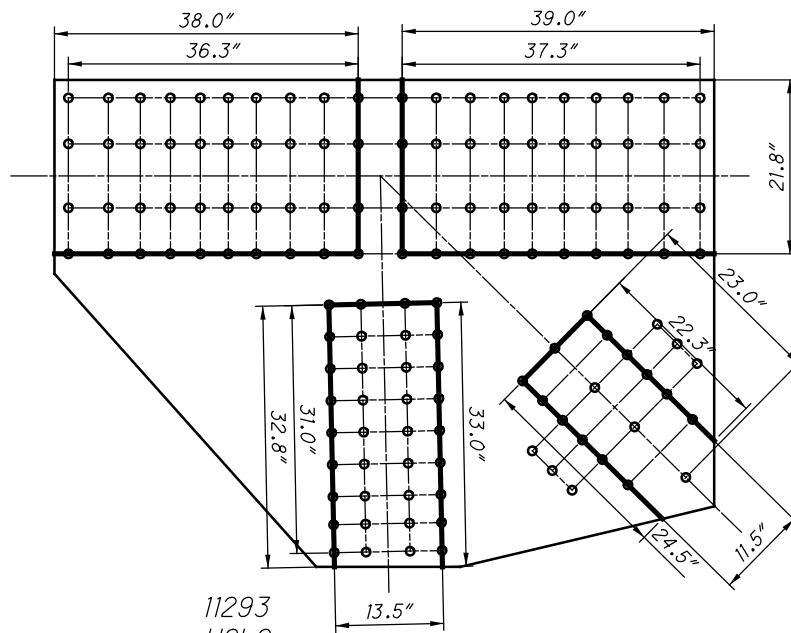
11293
U2L2

11294
U2L3

**U129 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

40 RIVETS
x 2 PLATES
=80 RIVETS

11291
U1U2



11295
U2U3

40 RIVETS
x 2 PLATES
=80 RIVETS

11294
U2L3

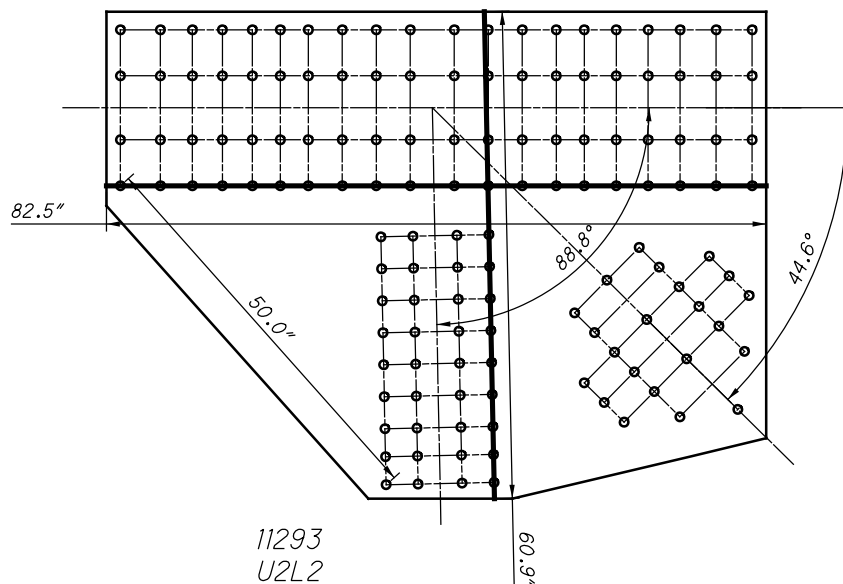
16 RIVETS
x 2 PLATES
=32 RIVETS

11293
U2L2

36 RIVETS
x 2 PLATES
=72 RIVETS

**U129 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

11291
U1U2

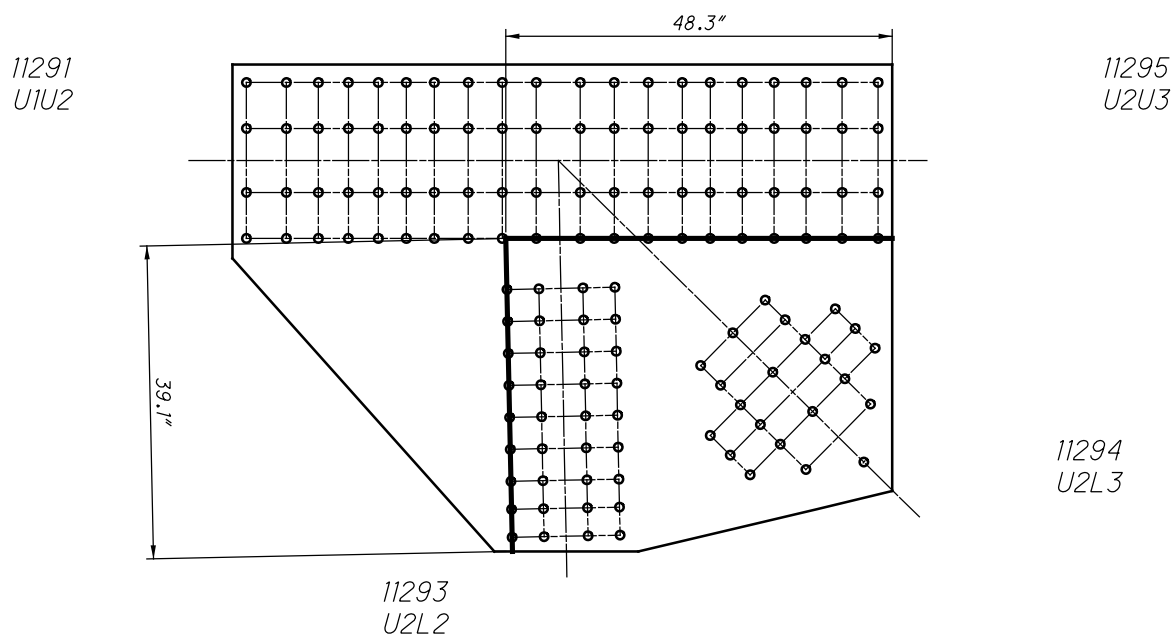


11295
U2U3

11294
U2L3

11293
U2L2

**U129 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

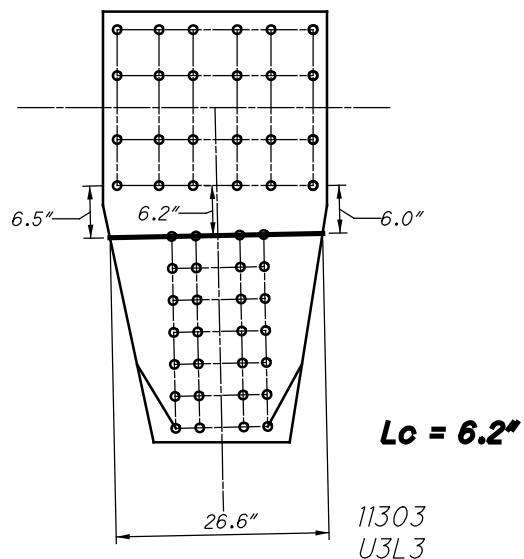


**U129 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**

**U130 OUTSIDE (SPAN 19)
(NEAR AND FAR SIDE)**

11301
U2U3

11305
U3U4



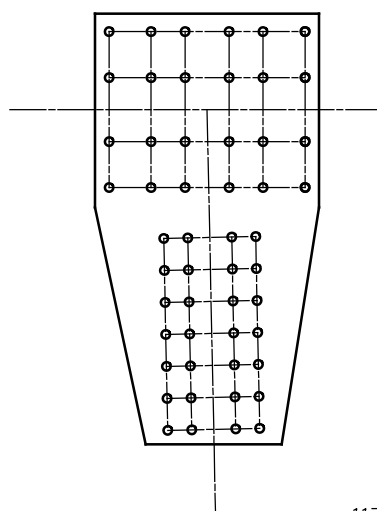
11303
U3L3

**U130 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

CHORD IS CONTINUOUS

11301
U2U3

11305
U3U4

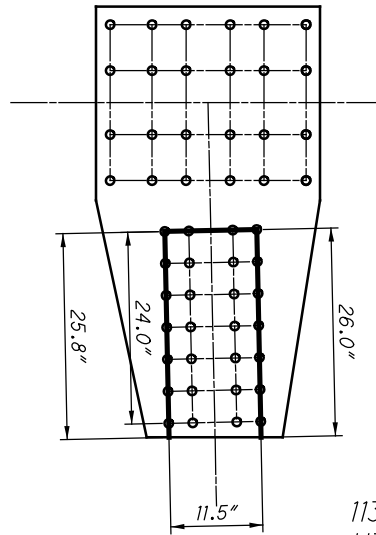


11303
U3L3

**U130 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

11301
U2U3

11305
U3U4



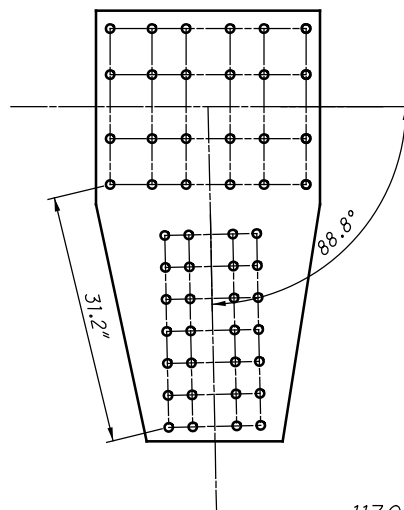
28 RIVETS
x 2 PLATES
=56 RIVETS

11303
U3L3

**U130 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

11301
U2U3

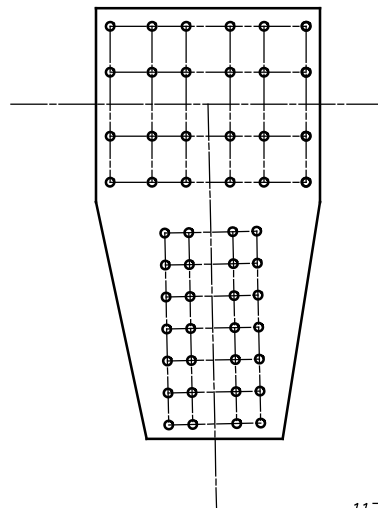
11305
U3U4



11303
U3L3

**U130 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

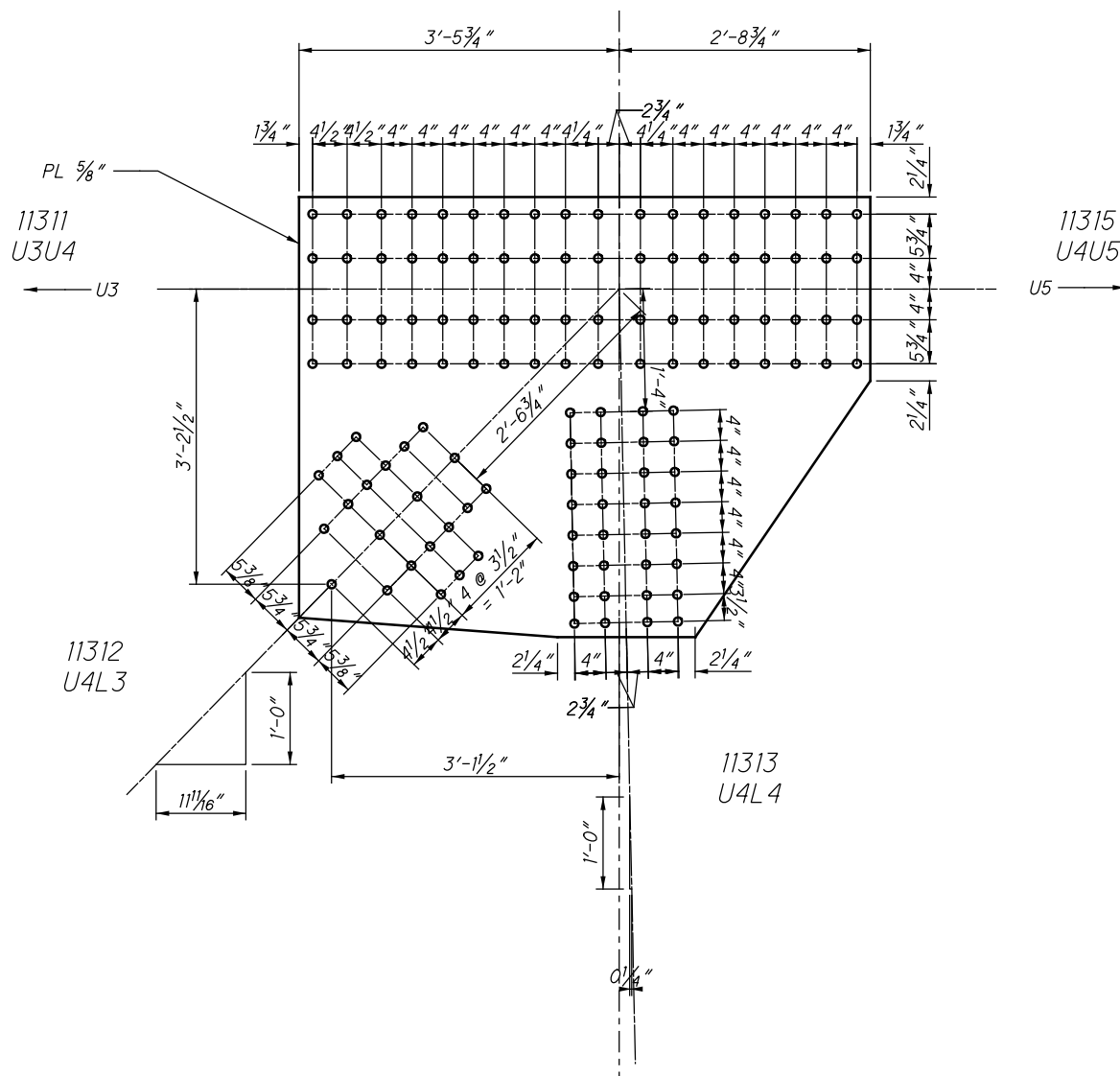
11301
U2U3



11305
U3U4

11303
U3L3

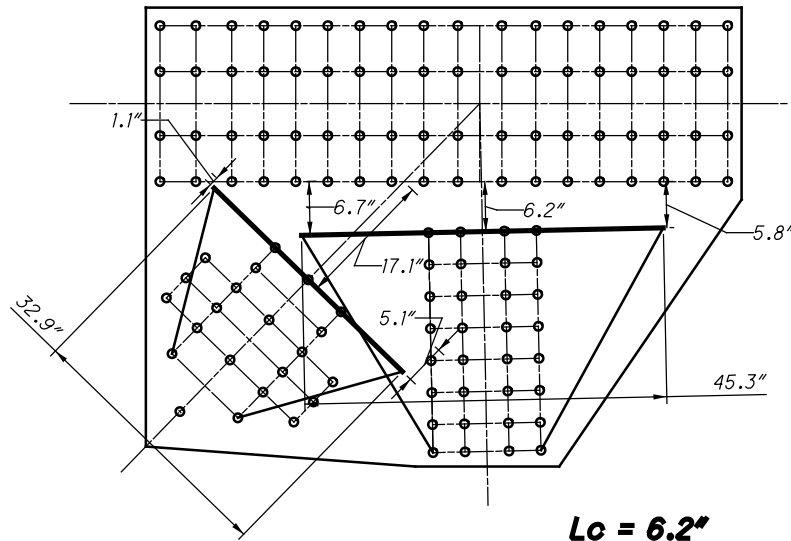
**U130 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**



**U131 OUTSIDE (SPAN 19)
(NEAR AND FAR SIDE)**

11311
U3U4

11315
U4U5



Lc = 7.8"

Lc = 6.2"

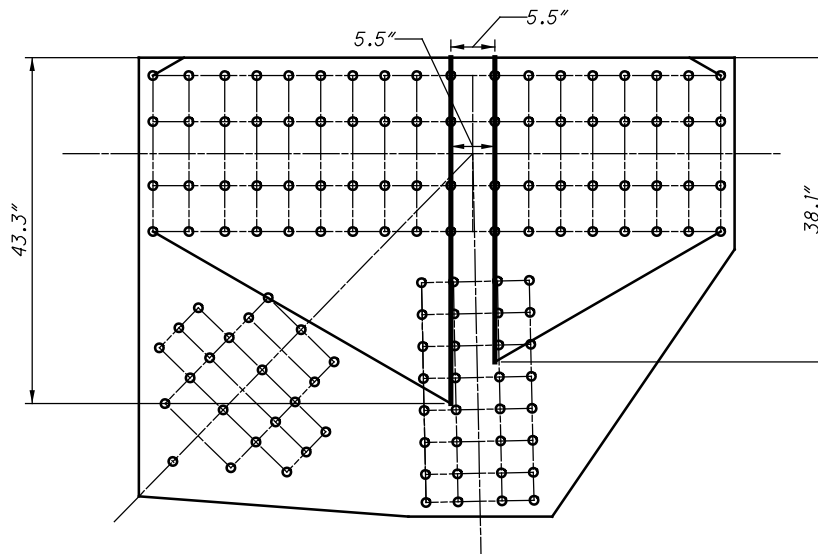
11313
U4L4

**U131 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

11311
U3U4

11315
U4U5

Lc = 3.7"



Lc = 3.7"

11312
U4L3

11313
U4L4

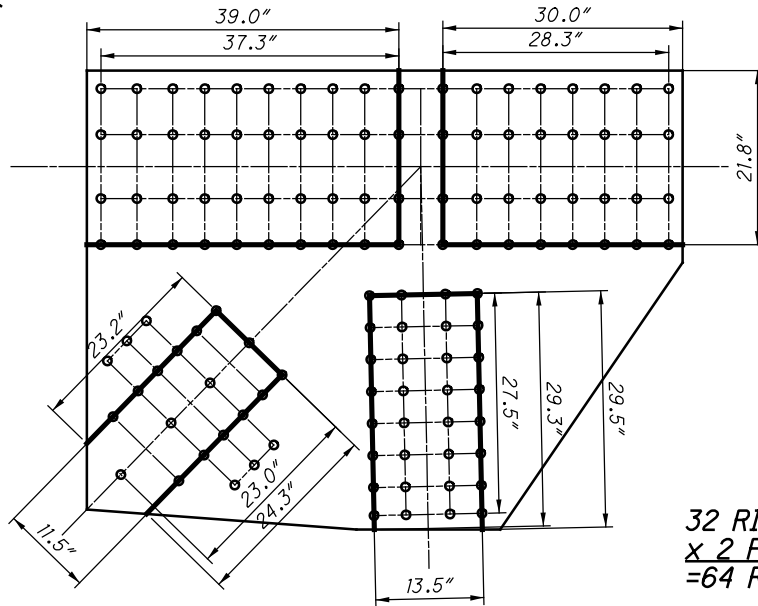
**U131 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

40 RIVETS
x 2 PLATES
=80 RIVETS

11311
U3U4

32 RIVETS
x 2 PLATES
=64 RIVETS

11315
U4U5



11312
U4L3

16 RIVETS
x 2 PLATES
=32 RIVETS

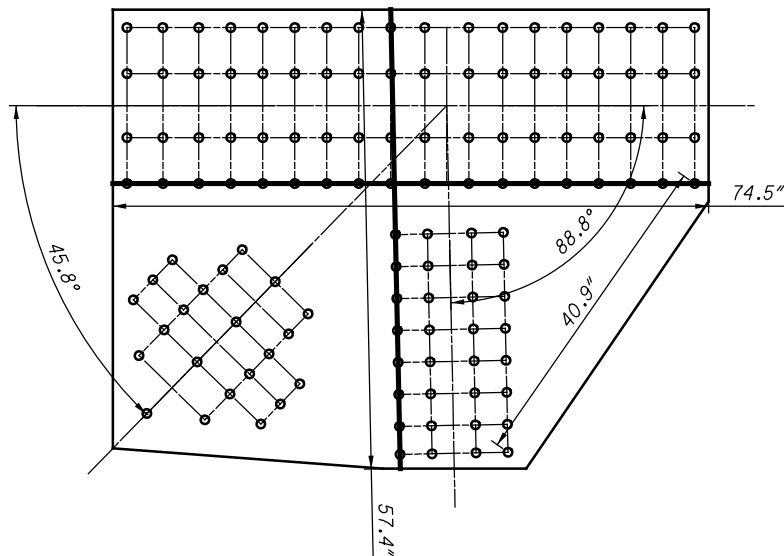
11313
U4L4

32 RIVETS
x 2 PLATES
=64 RIVETS

**U131 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

11311
U3U4

11315
U4U5



11312
U4L3

11313
U4L4

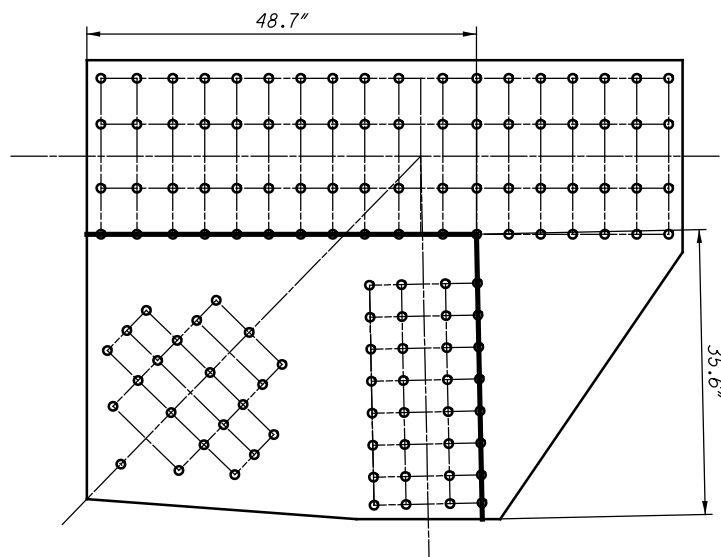
**U131 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

11311
U3U4

11315
U4U5

11312
U4L3

11313
U4L4



**U131 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**

11321
U4U5

← U_4

11325
U5U6

U5U6

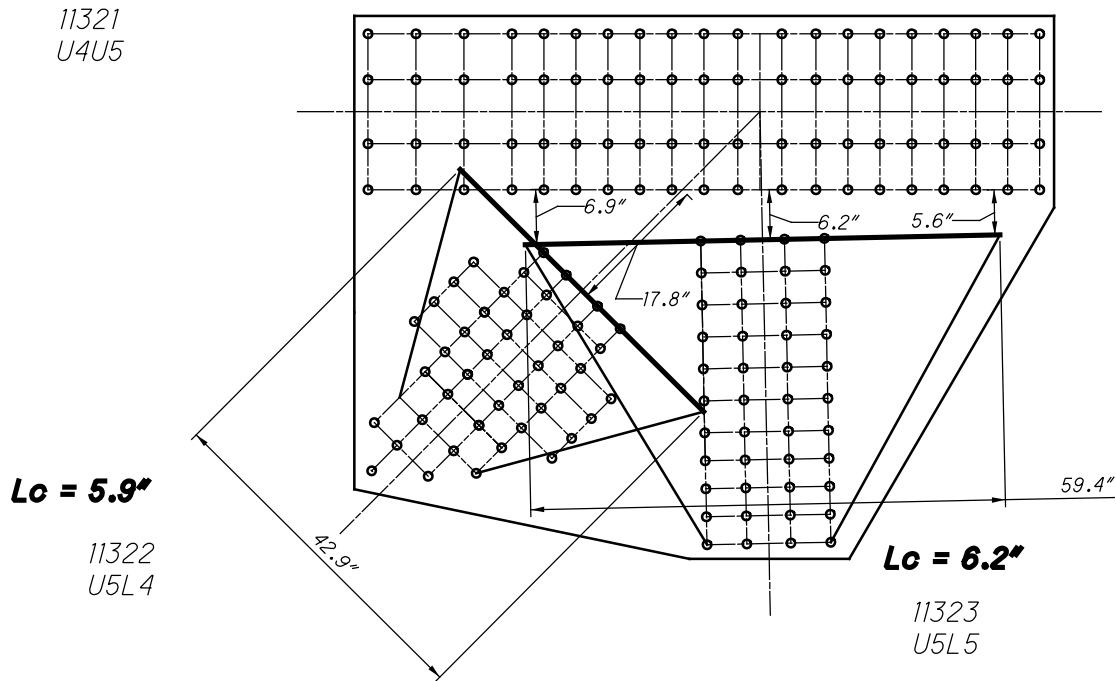
11322
U5L4

11322
U5L 4

11323
U5L5

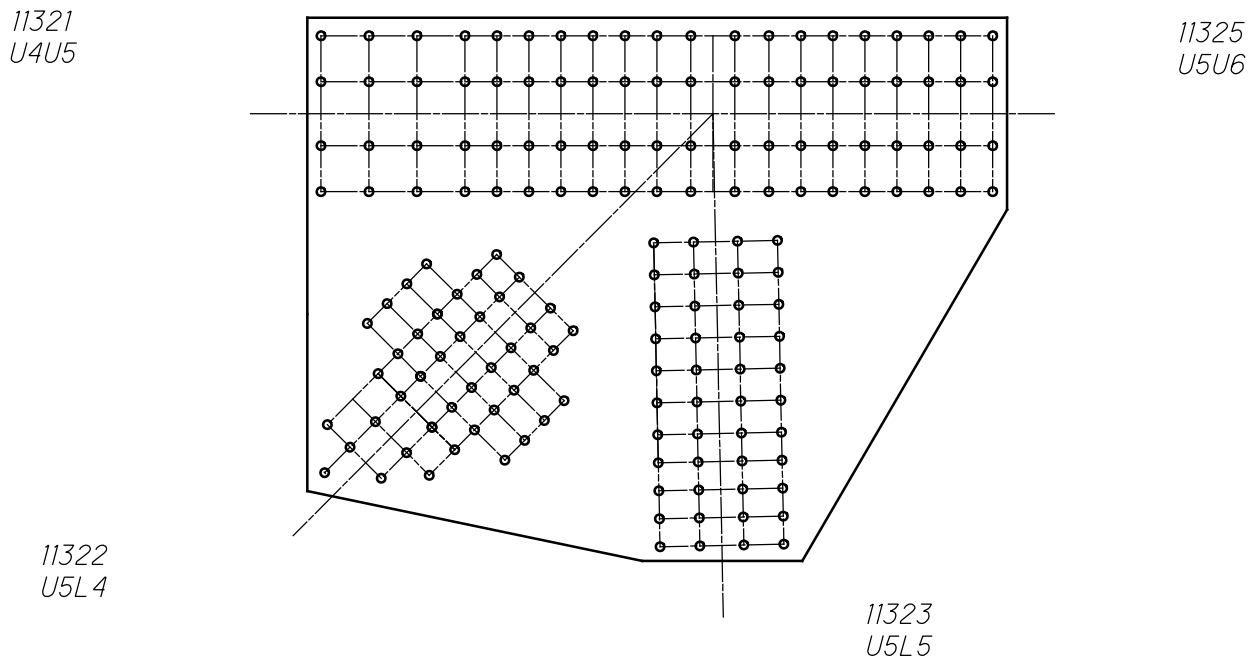
U5L5

**U132 OUTSIDE (SPAN 19)
(NEAR AND FAR SIDE)**



**U132 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

CHORD IS CONTINUOUS



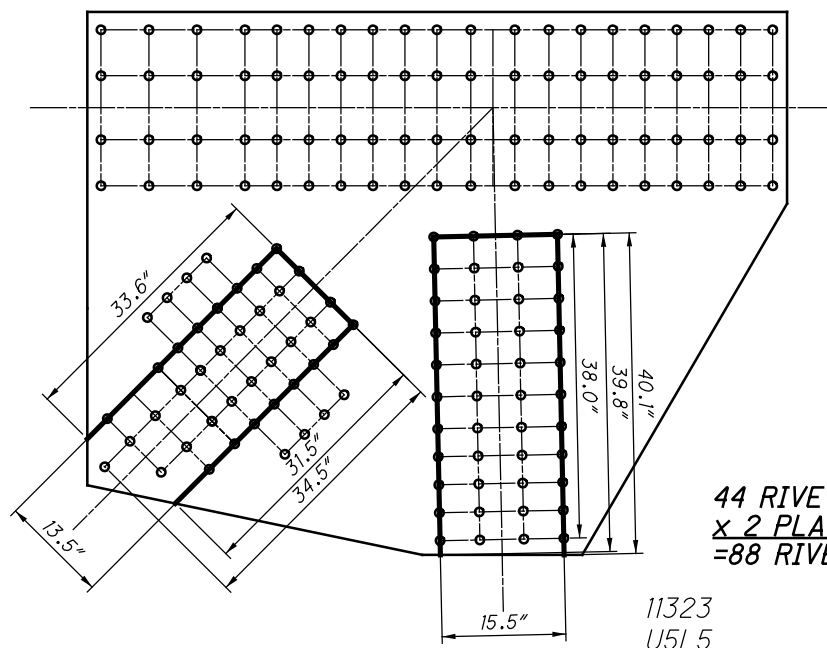
**U132 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

11321
U4U5

11325
U5U6

36 RIVETS
x 2 PLATES
=72 RIVETS

11322
U5L4



44 RIVETS
x 2 PLATES
=88 RIVETS

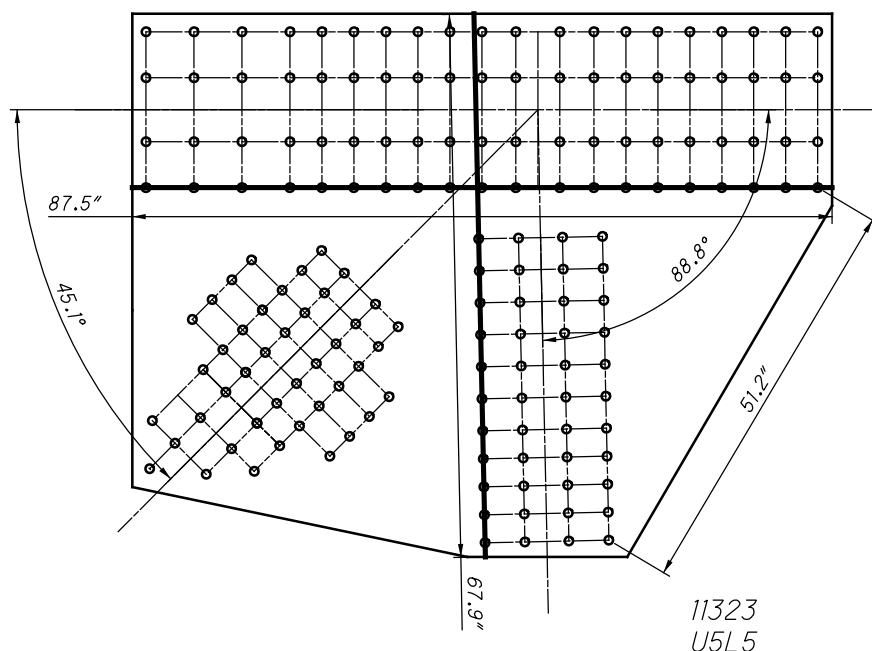
11323
U5L5

**U132 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

11321
U4U5

11325
U5U6

11322
U5L4



11323
U5L5

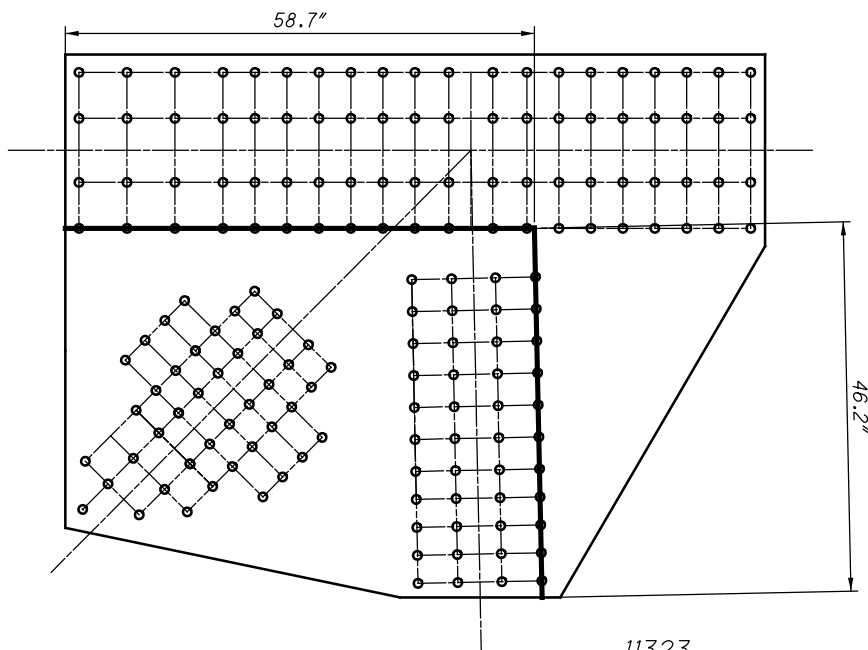
**U132 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

11321
U4U5

11325
U5U6

11322
U5L4

11323
U5L5



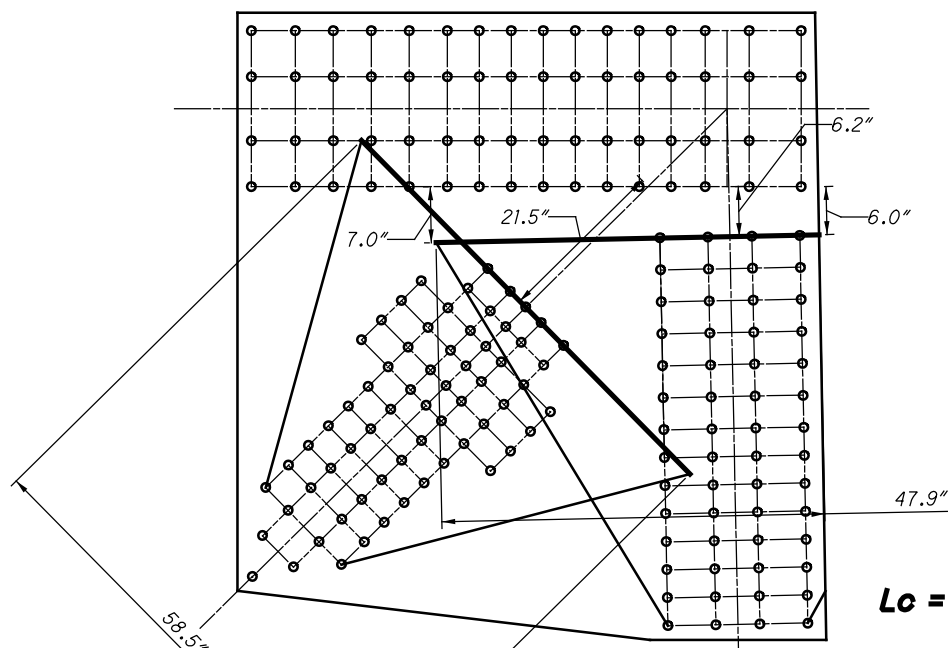
**U132 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**

**U133 OUTSIDE (SPAN 19)
(NEAR AND FAR SIDE)**

11331
U5U6

11332
U6L5

$L_c = 7.2"$



$L_c = 6.4"$

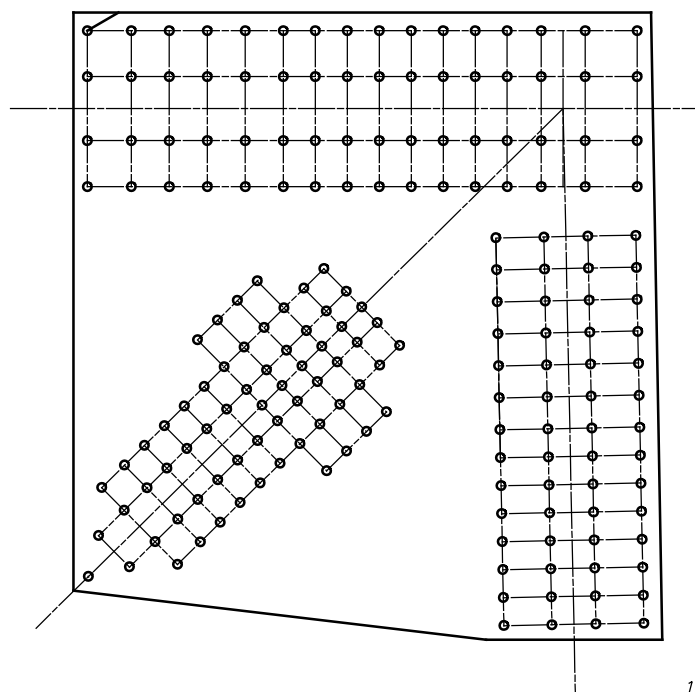
11333
U6L6

**U133 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

CHORD IS CONTINUOUS

11331
U5U6

11332
U6L5



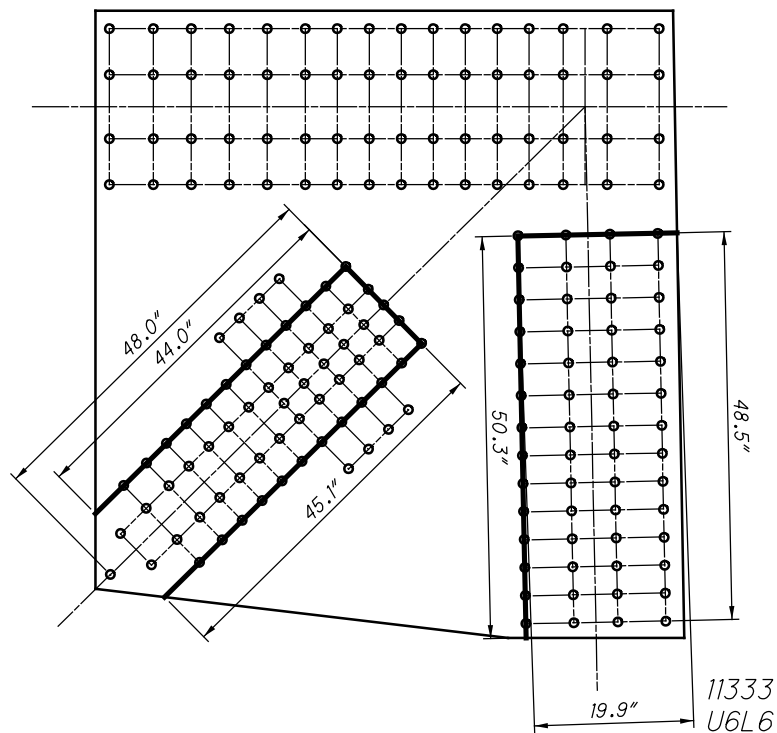
11333
U6L6

**U133 OUTSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

11331
U5U6

57 RIVETS
x 2 PLATES
=114 RIVETS

11332
U6L5



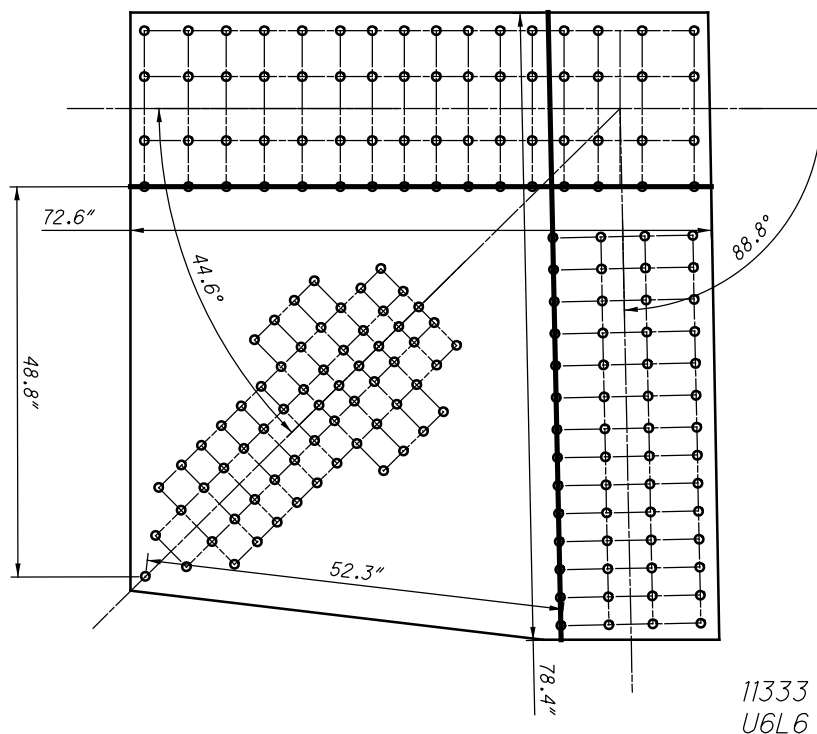
56 RIVETS
x 2 PLATES
=112 RIVETS

11333
U6L6

**U133 OUTSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

11331
U5U6

11332
U6L5

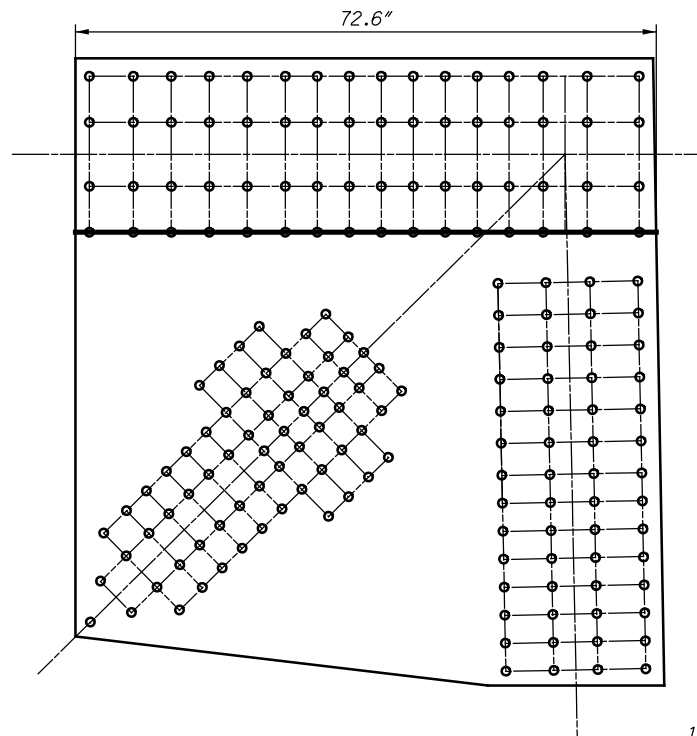


11333
U6L6

**U133 OUTSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

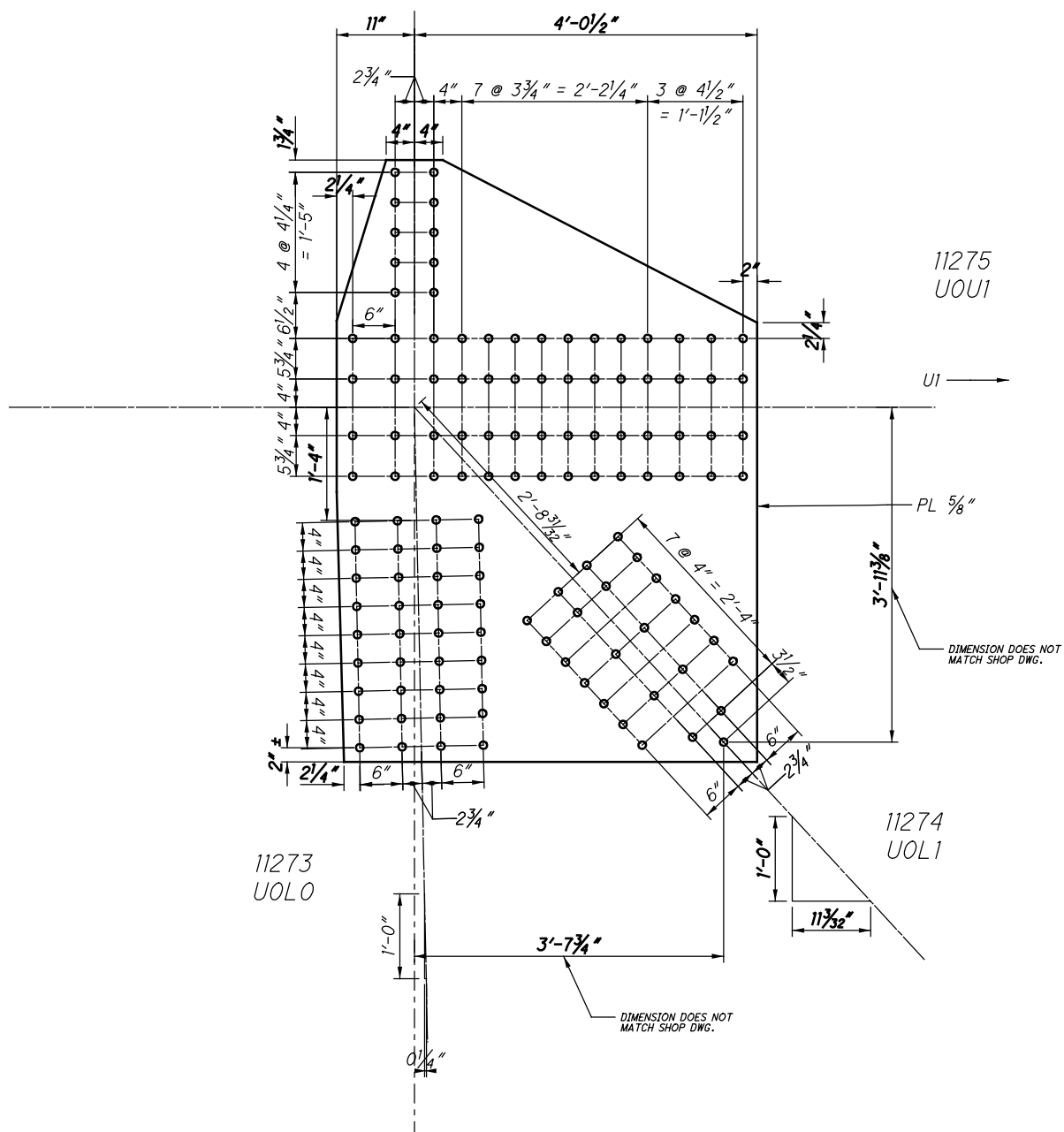
11331
U5U6

11332
U6L5

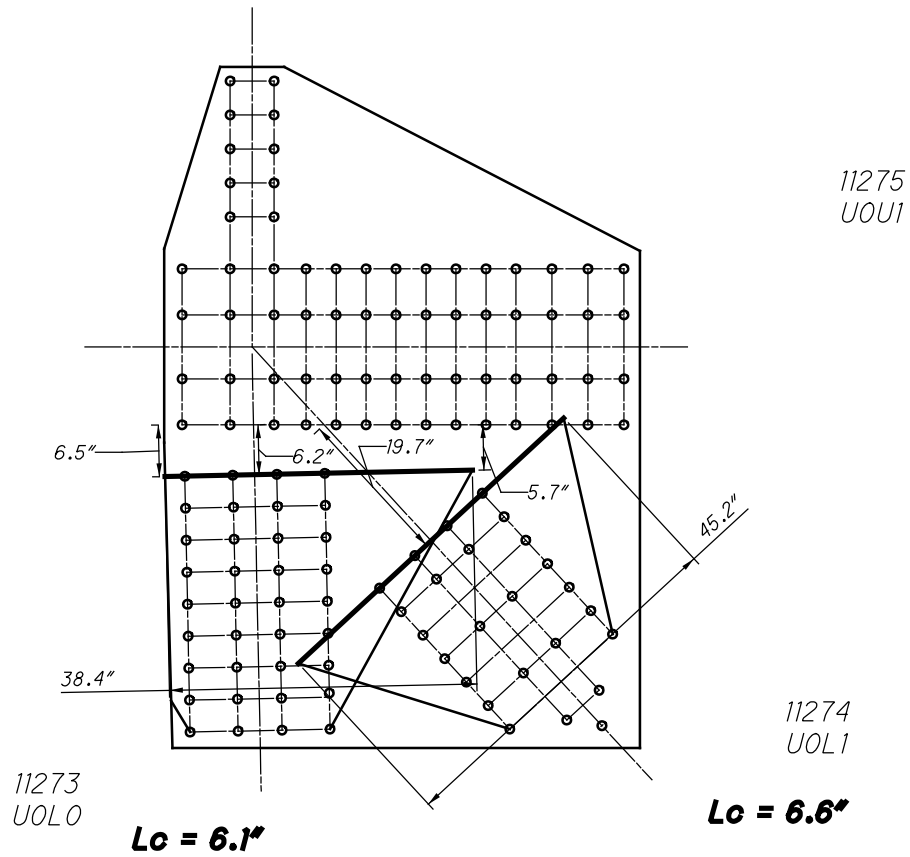


11333
U6L6

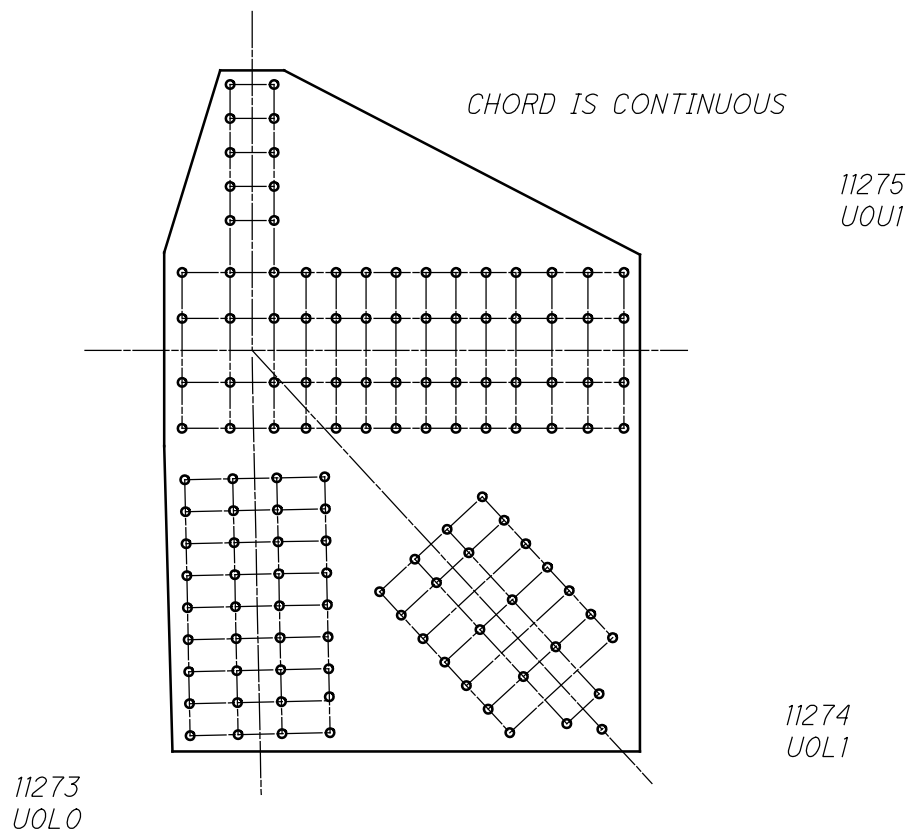
**U133 OUTSIDE (SPAN 19)
QUADRANT DIMENSIONS**

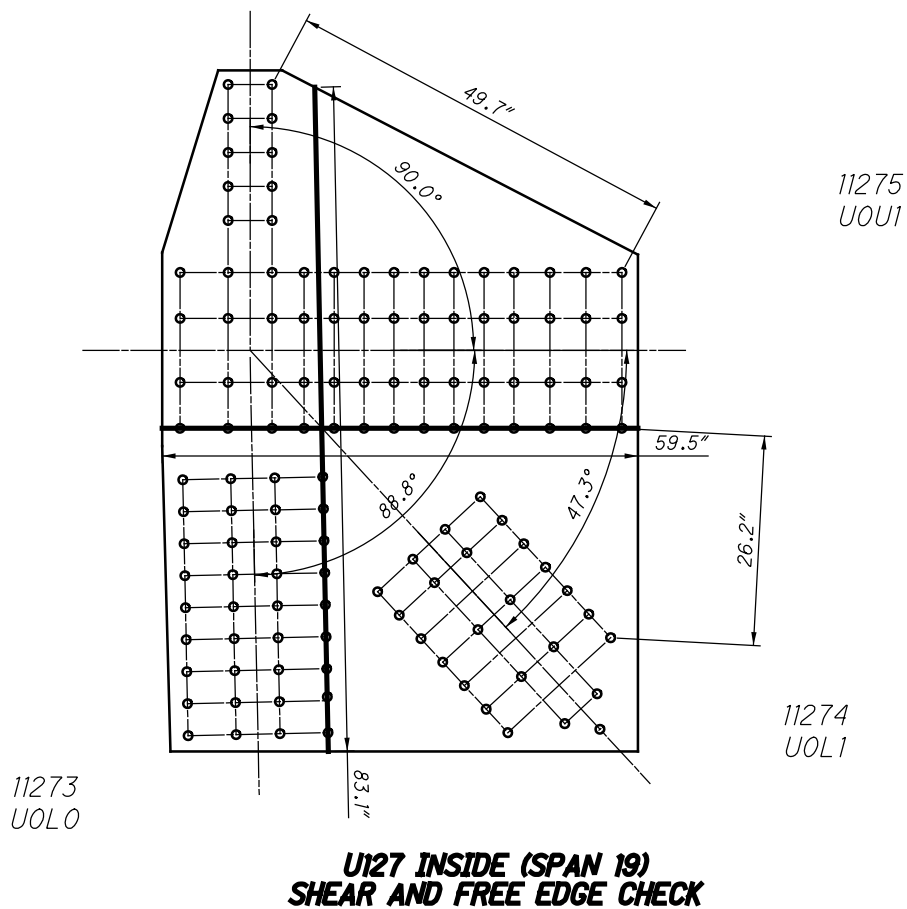
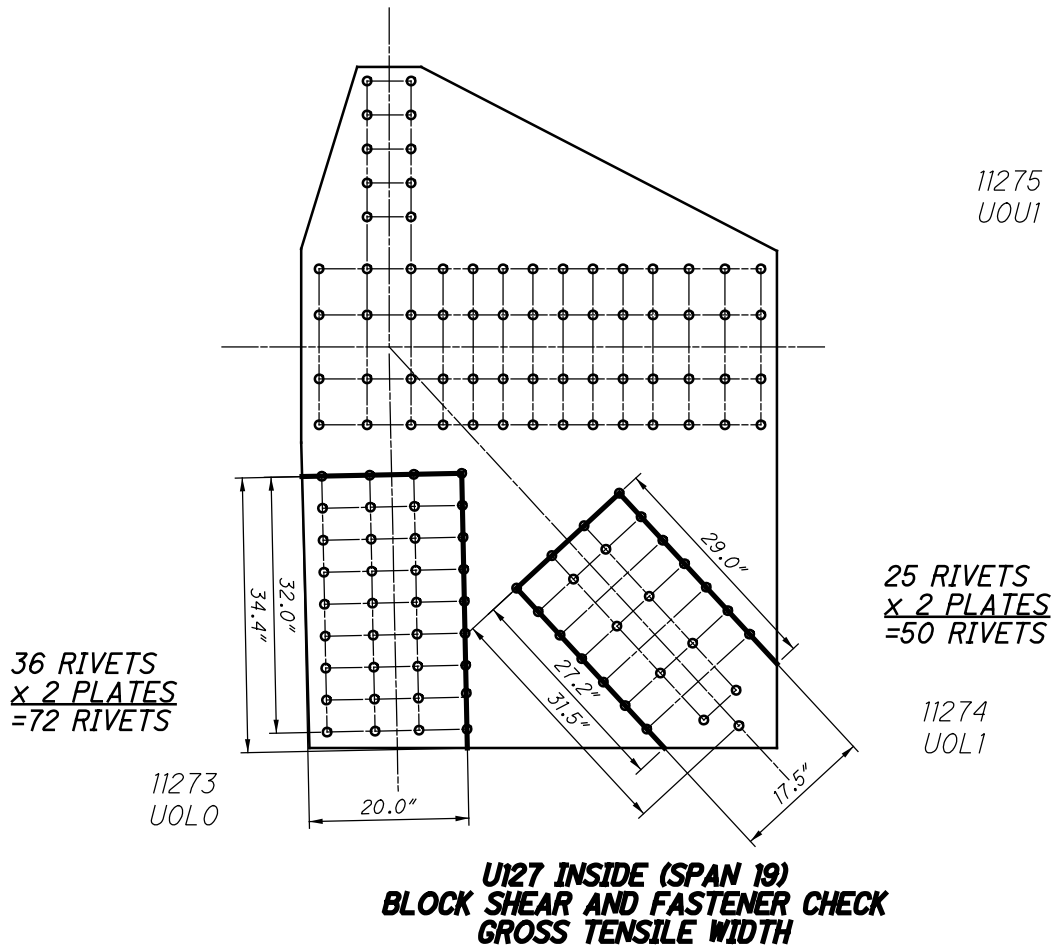


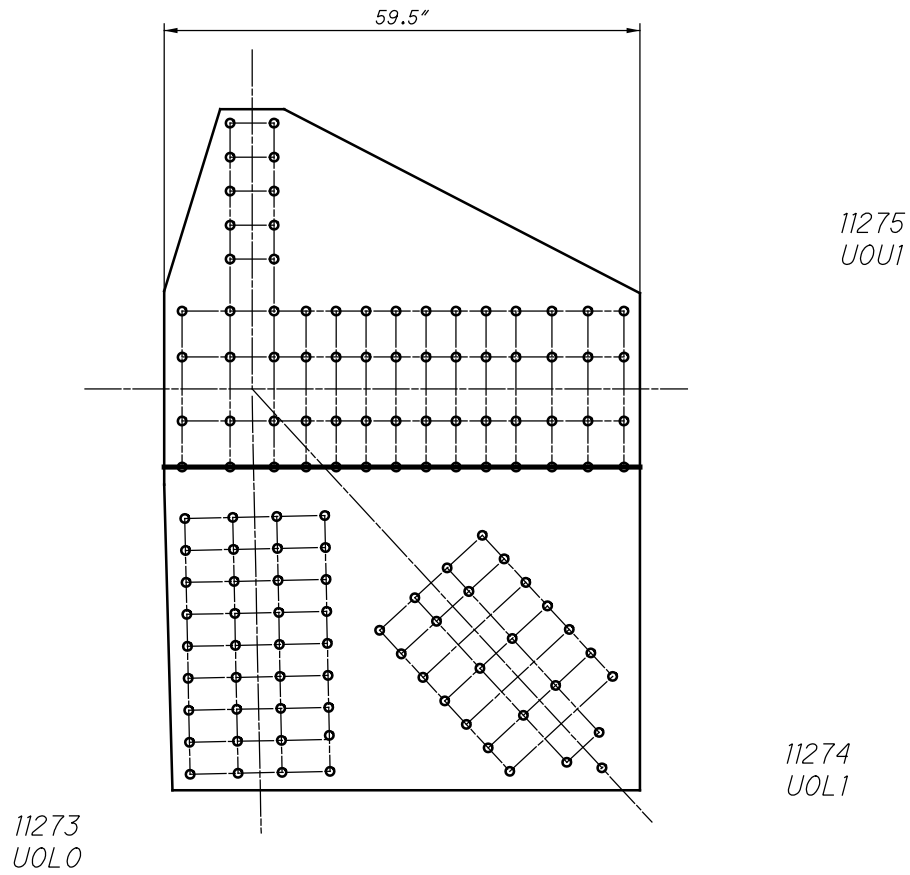
**U127 INSIDE (SPAN 19)
(NEAR AND FAR SIDE)**



**U127 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**



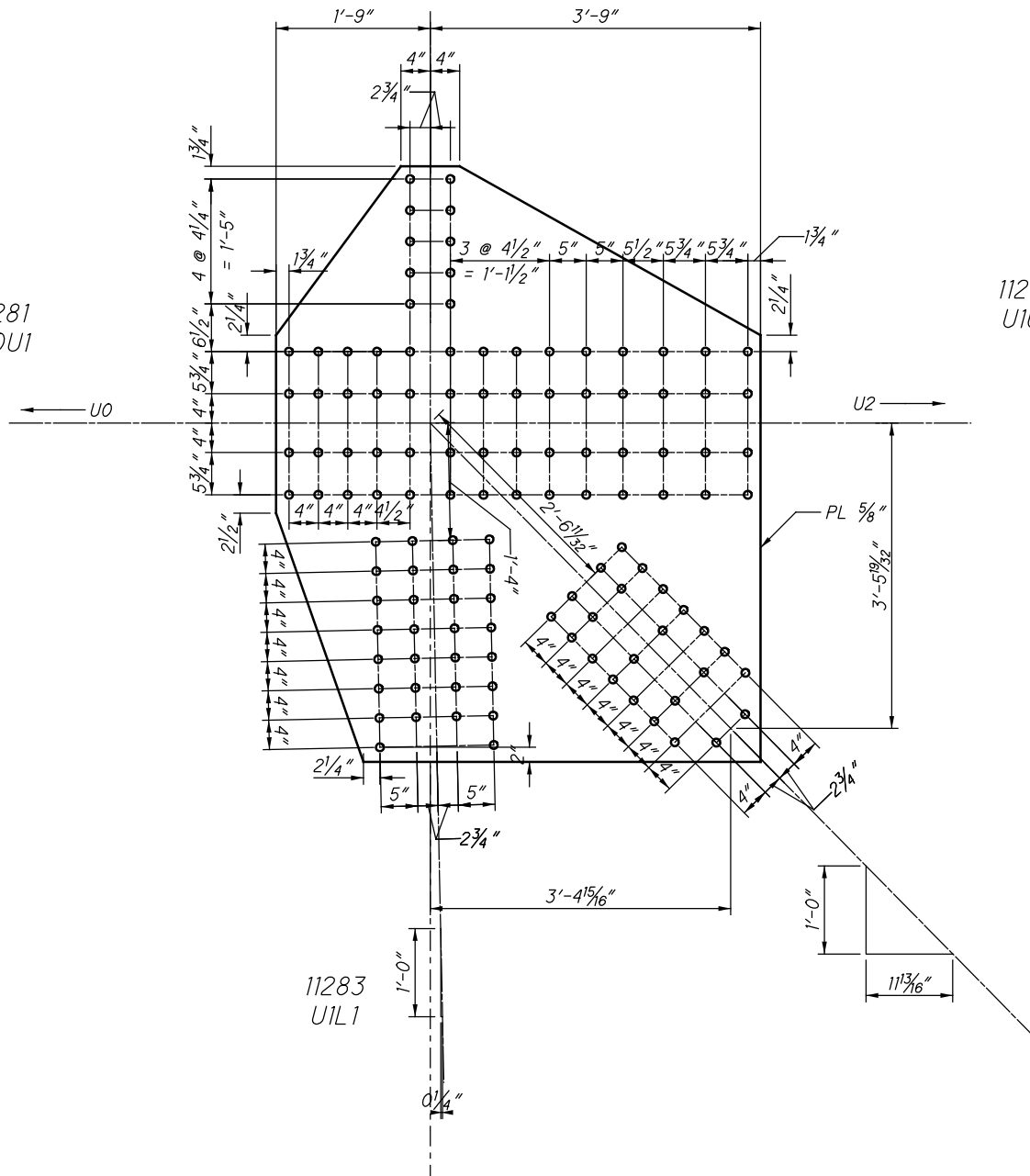




**U127 INSIDE (SPAN 19)
QUADRANT DIMENSIONS**

11281
U0U1

11285
UIU2

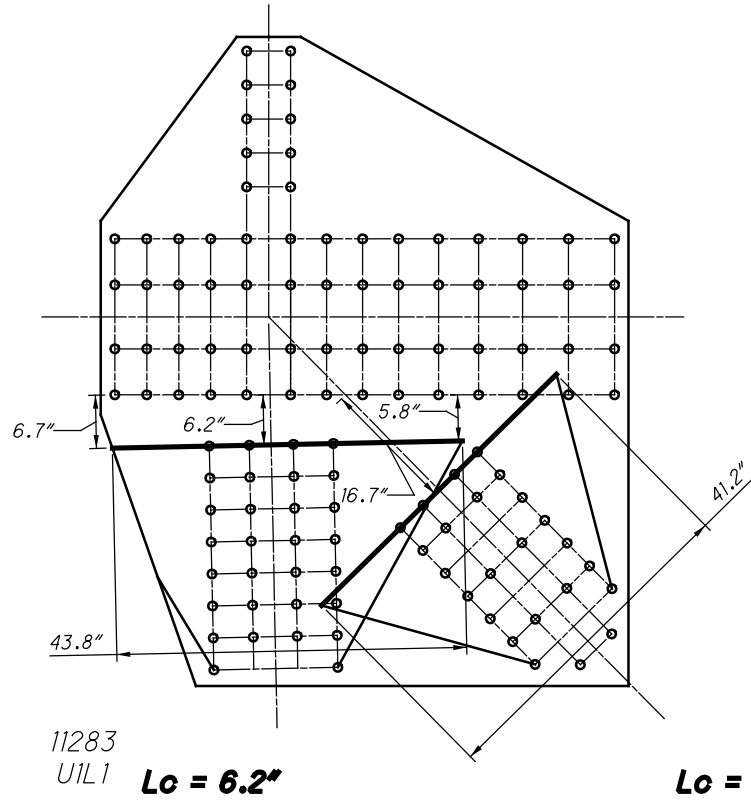


11284
UIL2

**U128 INSIDE (SPAN 19)
(NEAR SIDE AND FAR SIDE)**

11281
U0U1

11285
U1U2

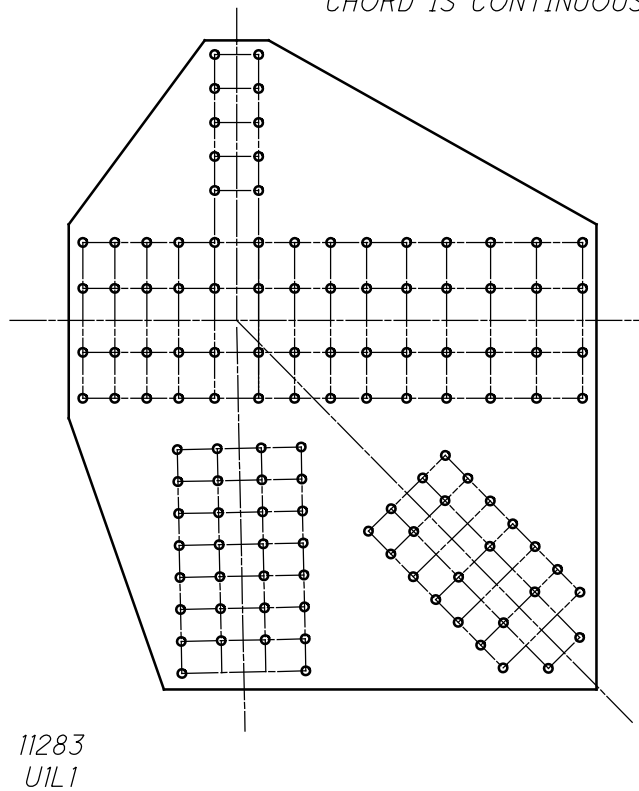


**U128 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

CHORD IS CONTINUOUS

11281
U0U1

11285
U1U2



**U128 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

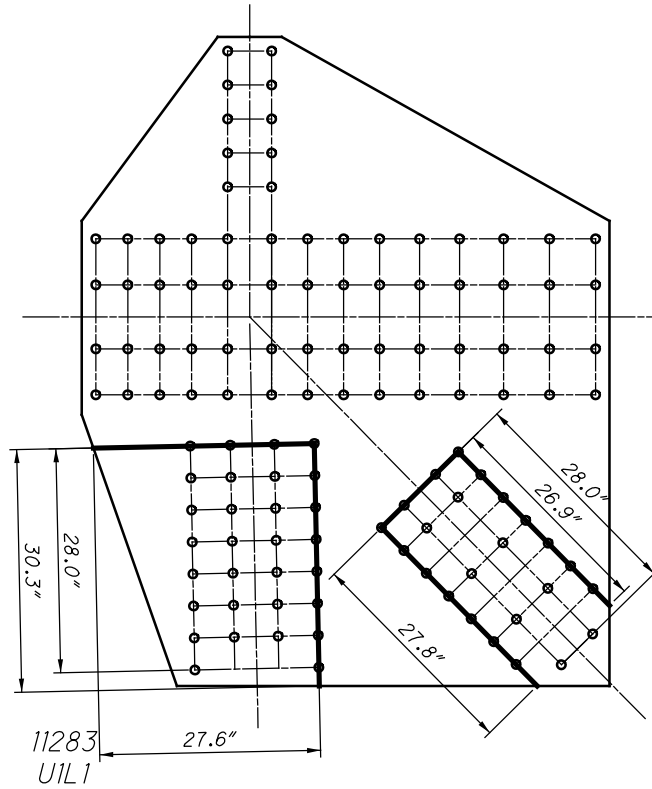
11281
U0U1

11285
U1U2

30 RIVETS
x 2 PLATES
=60 RIVETS

24 RIVETS
x 2 PLATES
=48 RIVETS

11284
U1L2

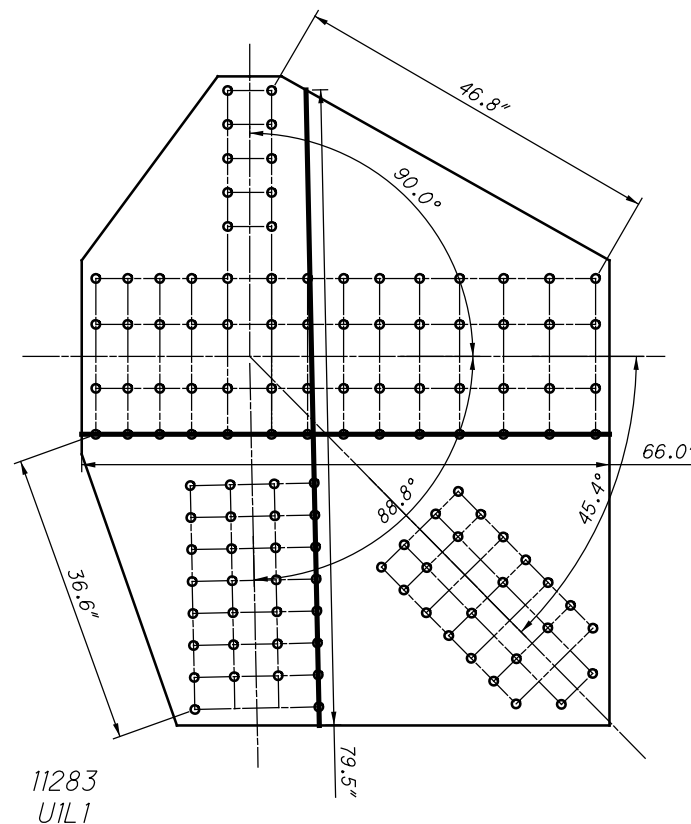


**U128 INSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

11281
U0U1

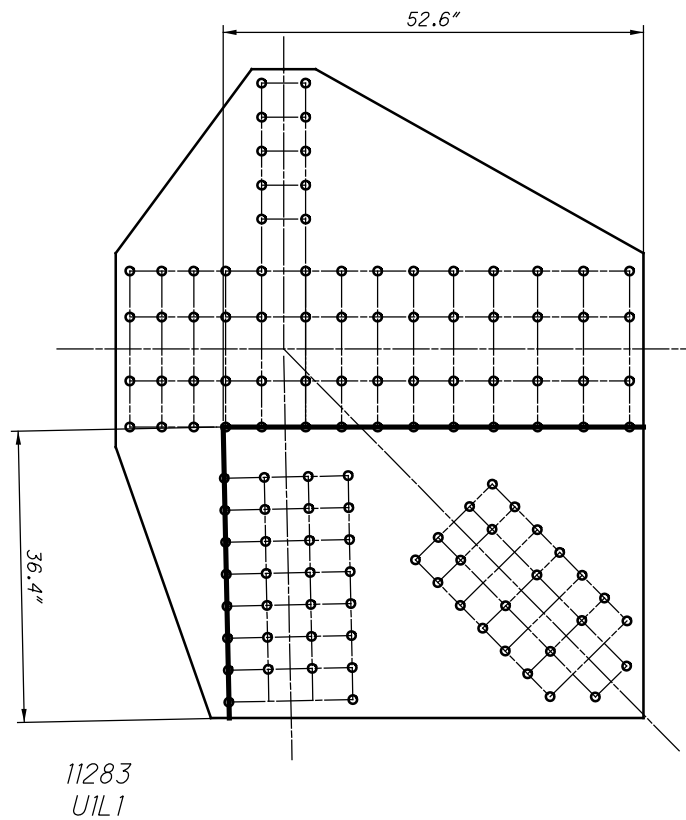
11285
U1U2

11284
U1L2



**U128 INSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

11284
U1L2



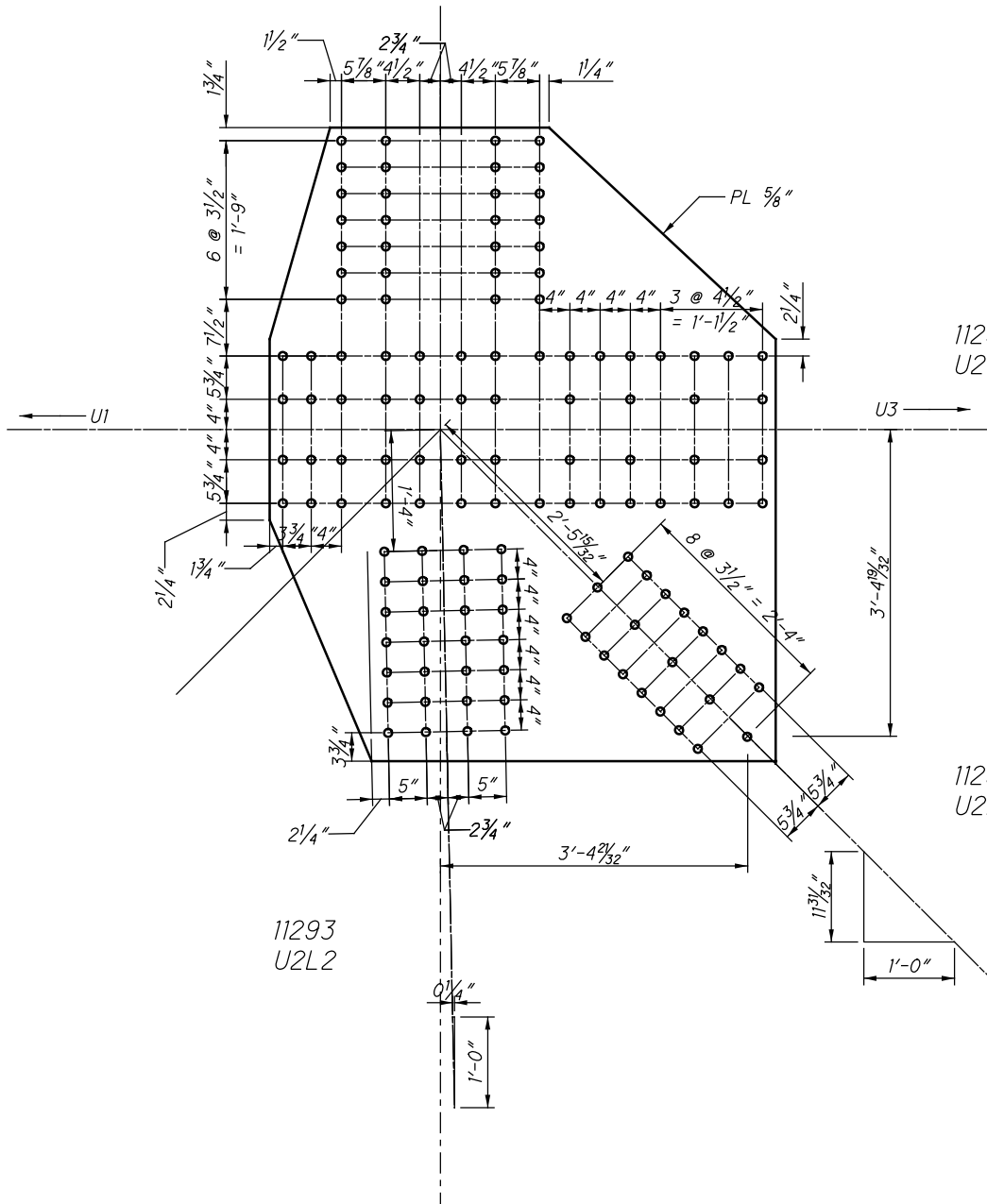
U128 INSIDE (SPAN 19) QUADRANT DIMENSIONS

11291
U1U2

11295
U2U3

11294
U2L3

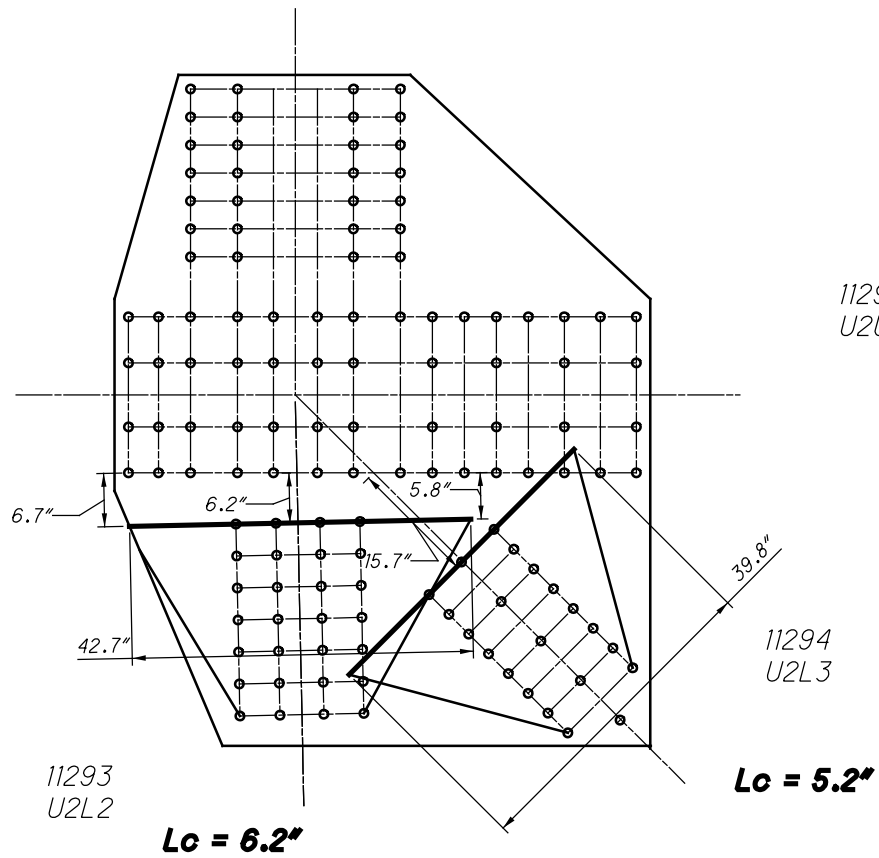
11293
U2L2



**U129 INSIDE (SPAN 19)
(NEAR SIDE AND FAR SIDE)**

11291
U1U2

11295
U2U3

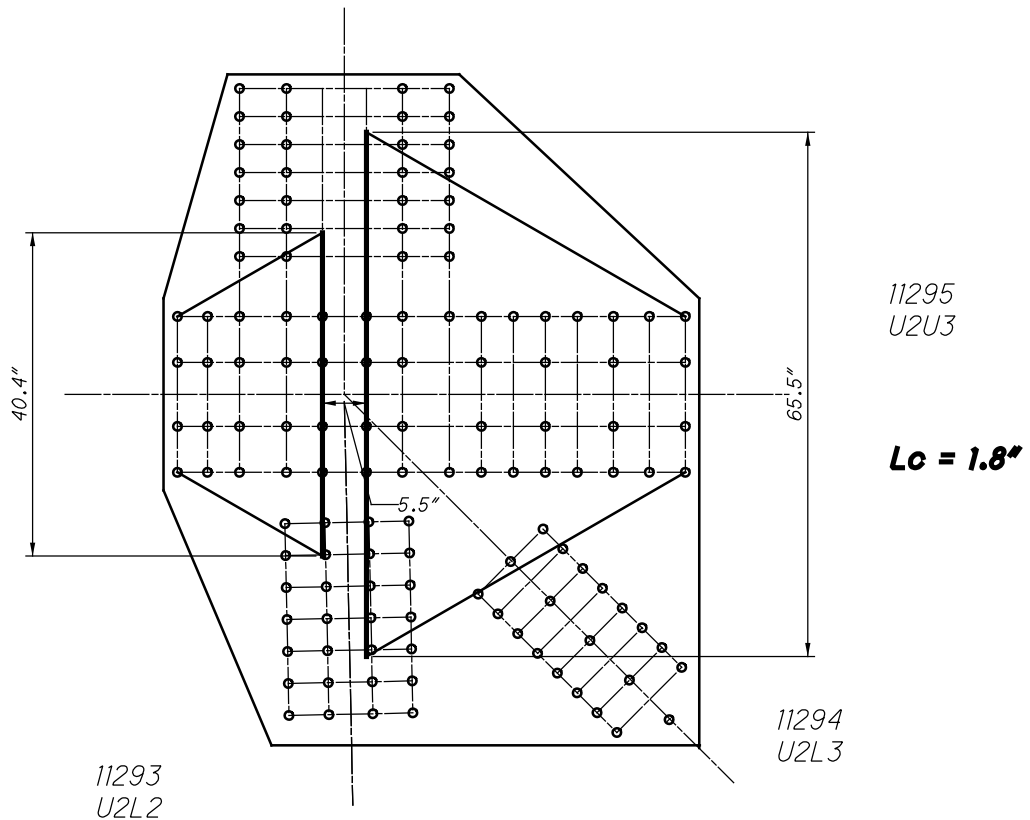


**U129 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

11291
U1U2

11295
U2U3

$L_c = 1.8"$



**U129 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

11291
U1U2

20 RIVETS
x 2 PLATES
=40 RIVETS

11295
U2U3

32 RIVETS
x 2 PLATES
=64 RIVETS

28 RIVETS
x 2 PLATES
=56 RIVETS

11294
U2L3

21 RIVETS
x 2 PLATES
=42 RIVETS

11293
U2L2

**U129 INSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

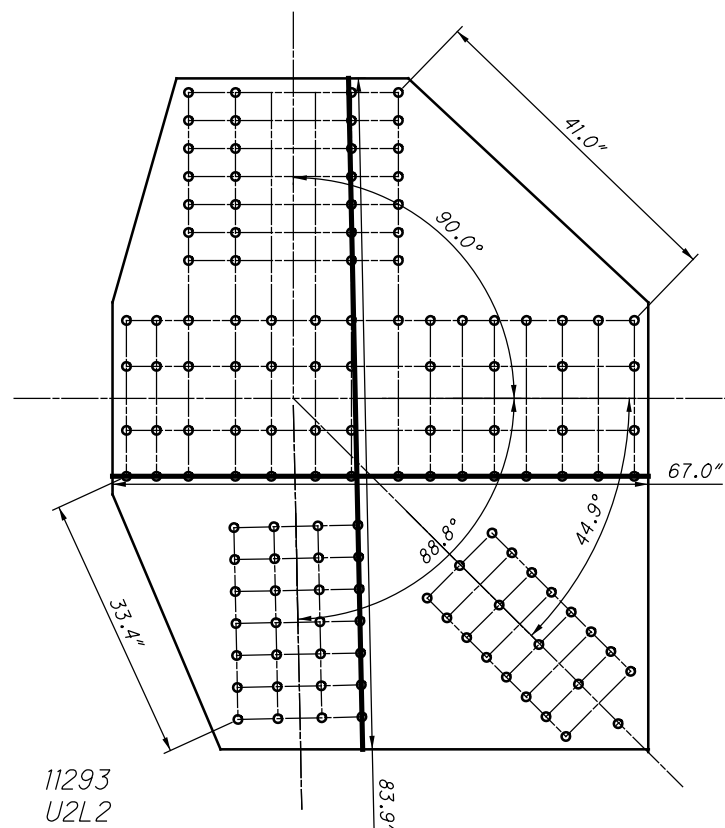
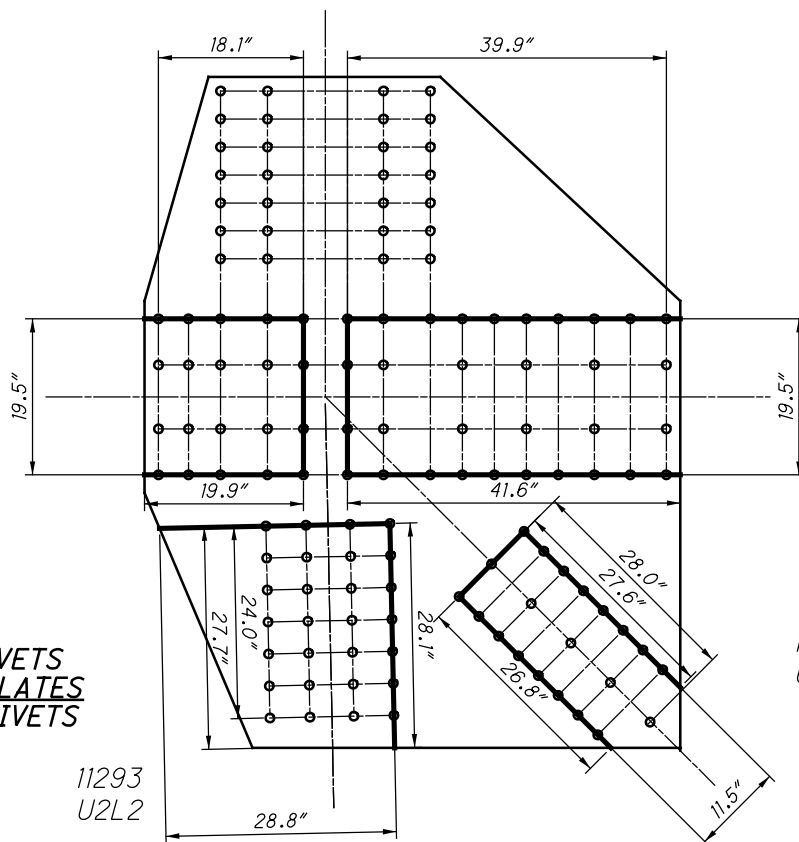
11291
U1U2

11295
U2U3

11294
U2L3

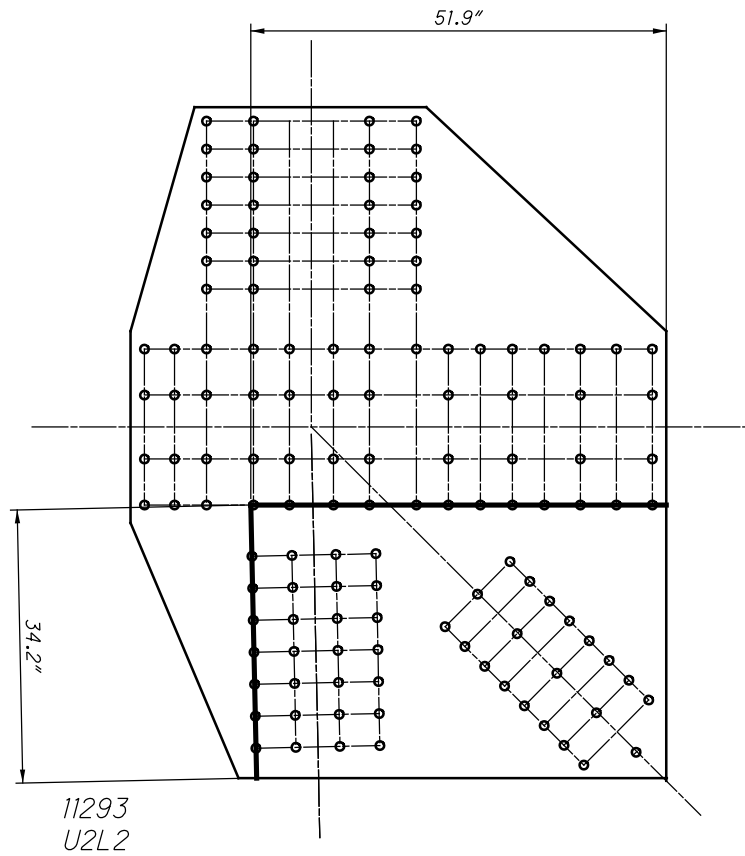
11293
U2L2

**U129 INSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**



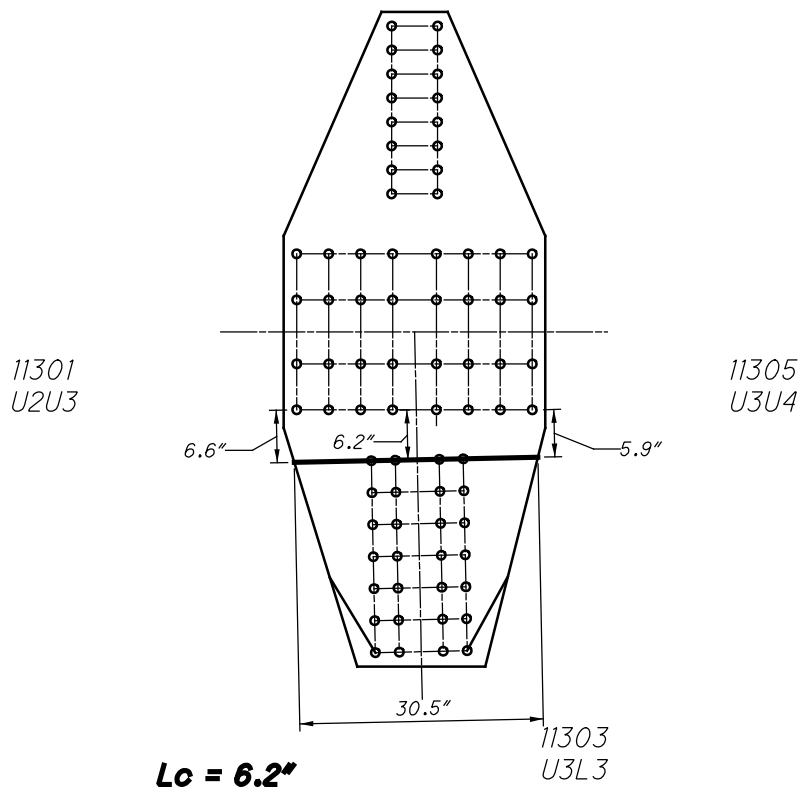
11291
U1U2

11295
U2U3

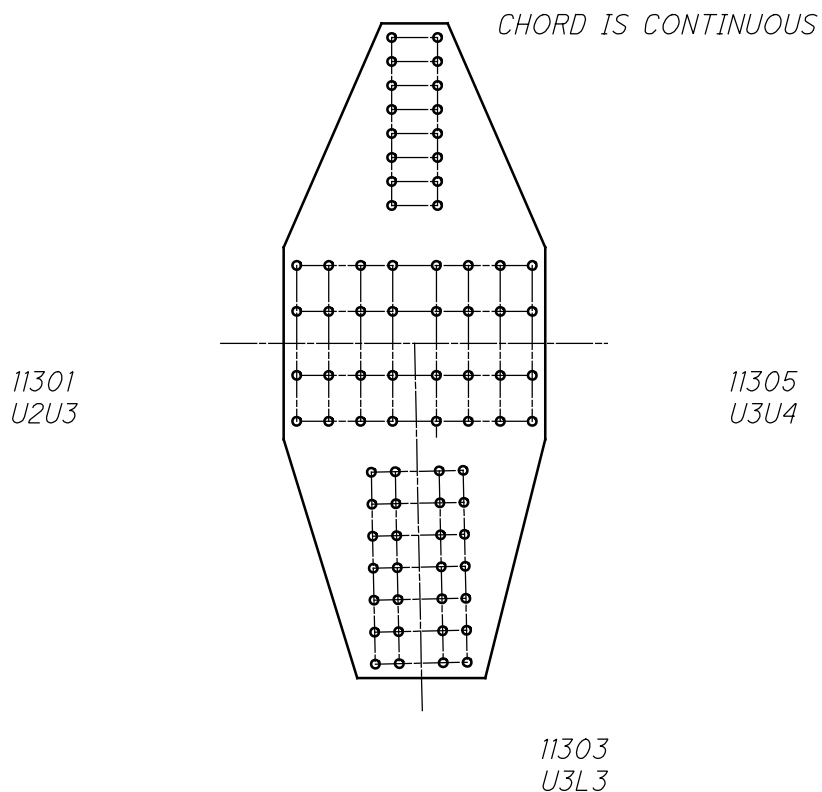


**U129 INSIDE (SPAN 19)
QUADRANT DIMENSIONS**

**U130 INSIDE (SPAN 19)
(NEAR SIDE AND FAR SIDE)**

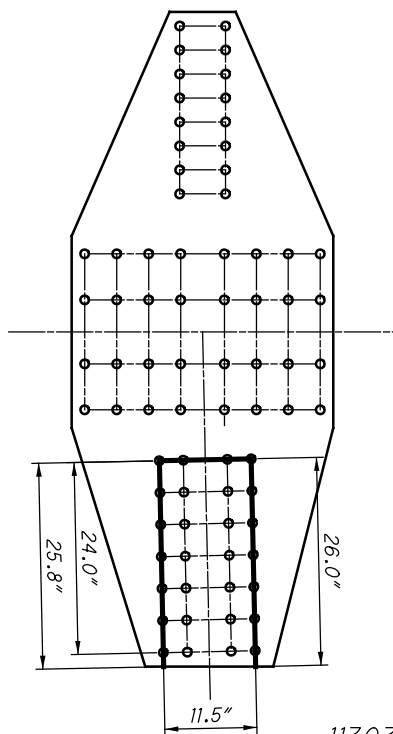


**U130 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**



**U130 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

11301
U2U3



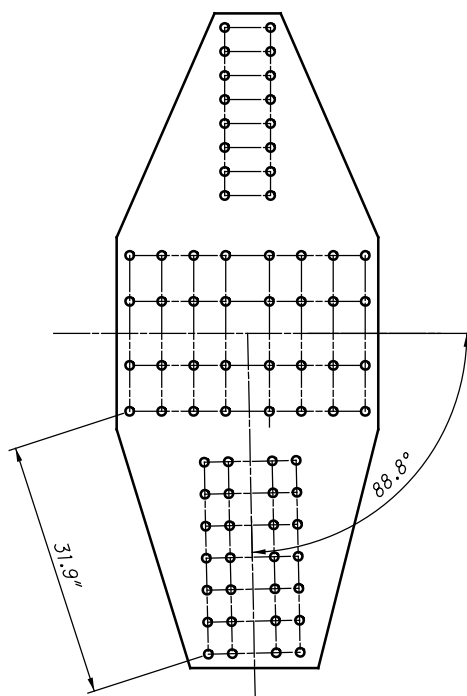
11305
U3U4

28 RIVETS
x 2 PLATES
= 56 RIVETS

11303
U3L3

**U130 INSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

11301
U2U3

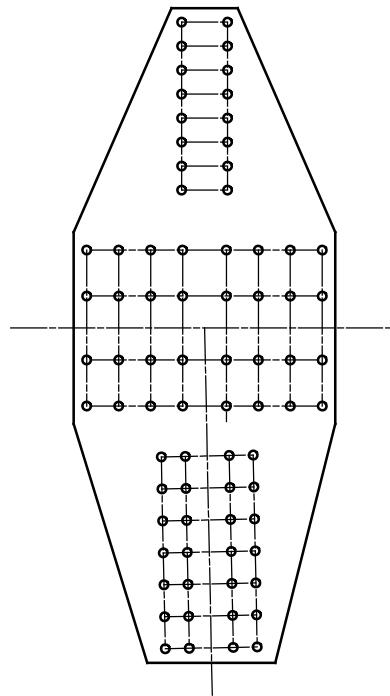


11305
U3U4

11303
U3L3

**U130 INSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

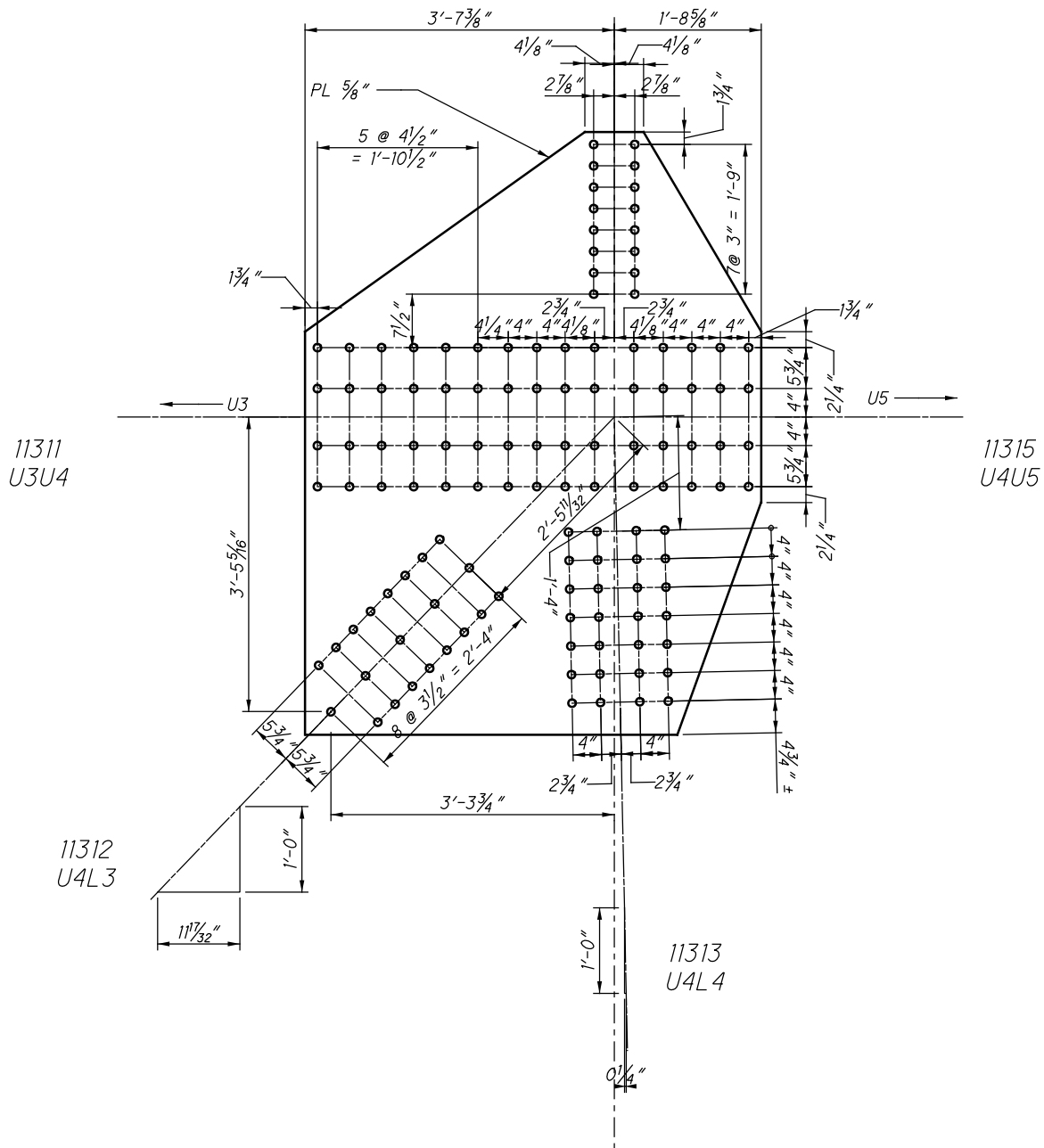
11301
U2U3



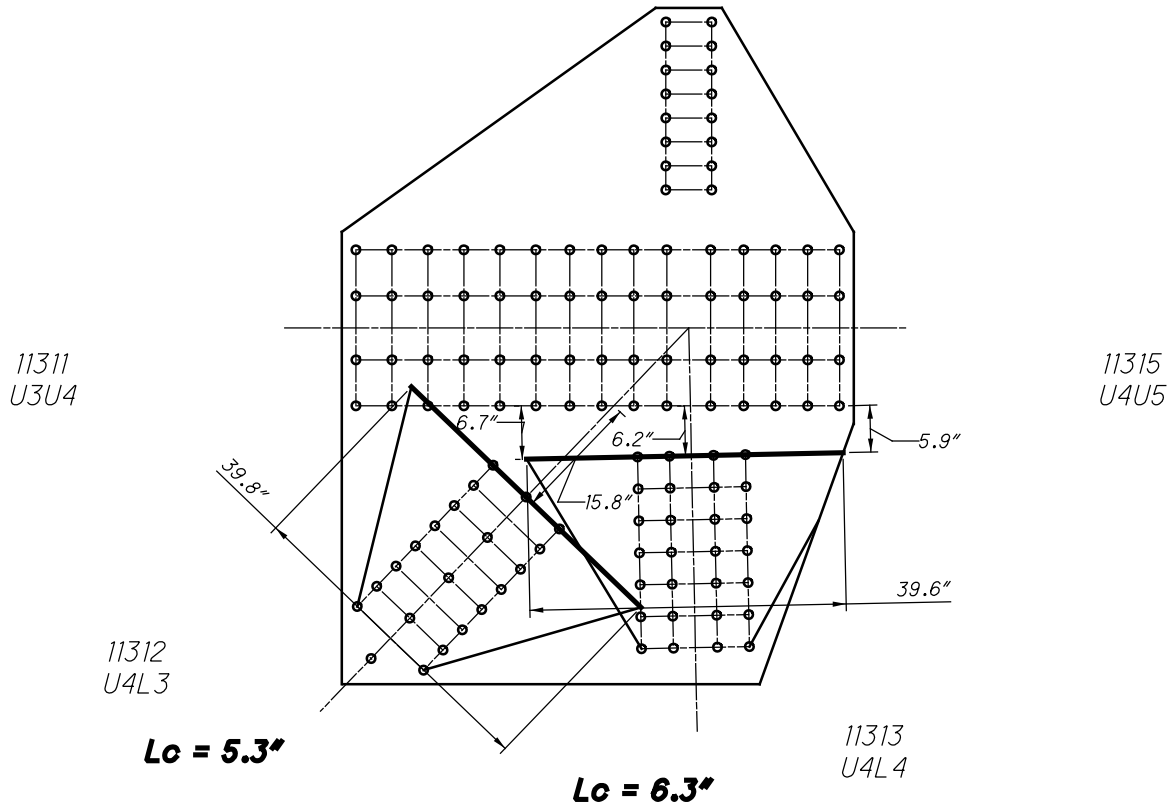
11305
U3U4

11303
U3L3

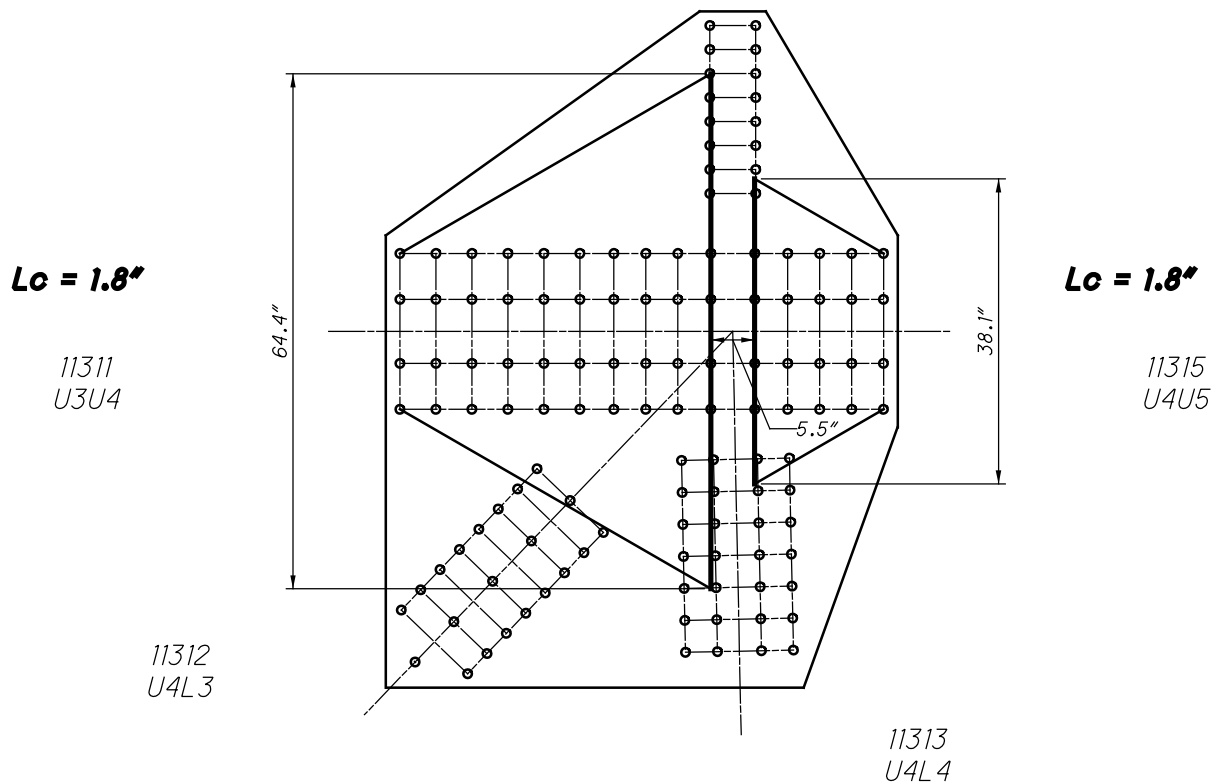
**U130 INSIDE (SPAN 19)
QUADRANT DIMENSIONS**



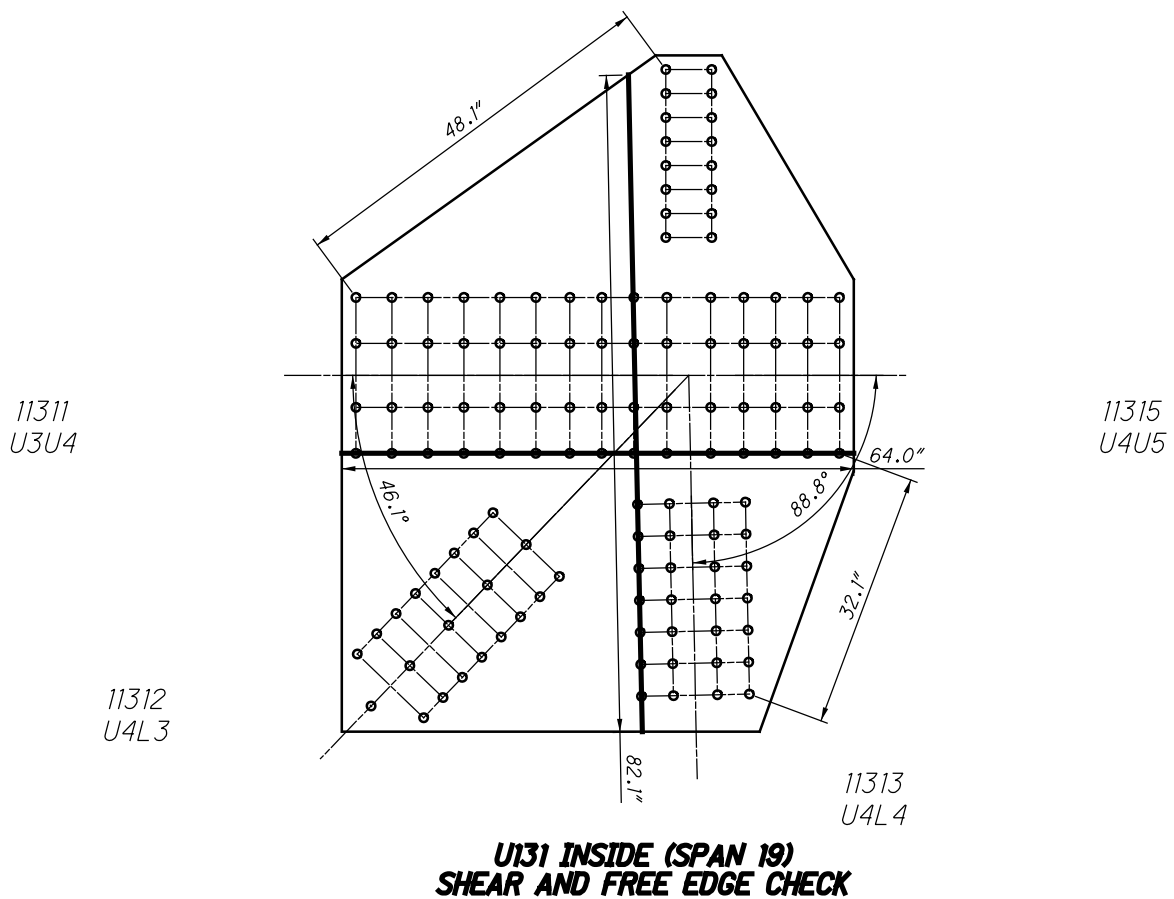
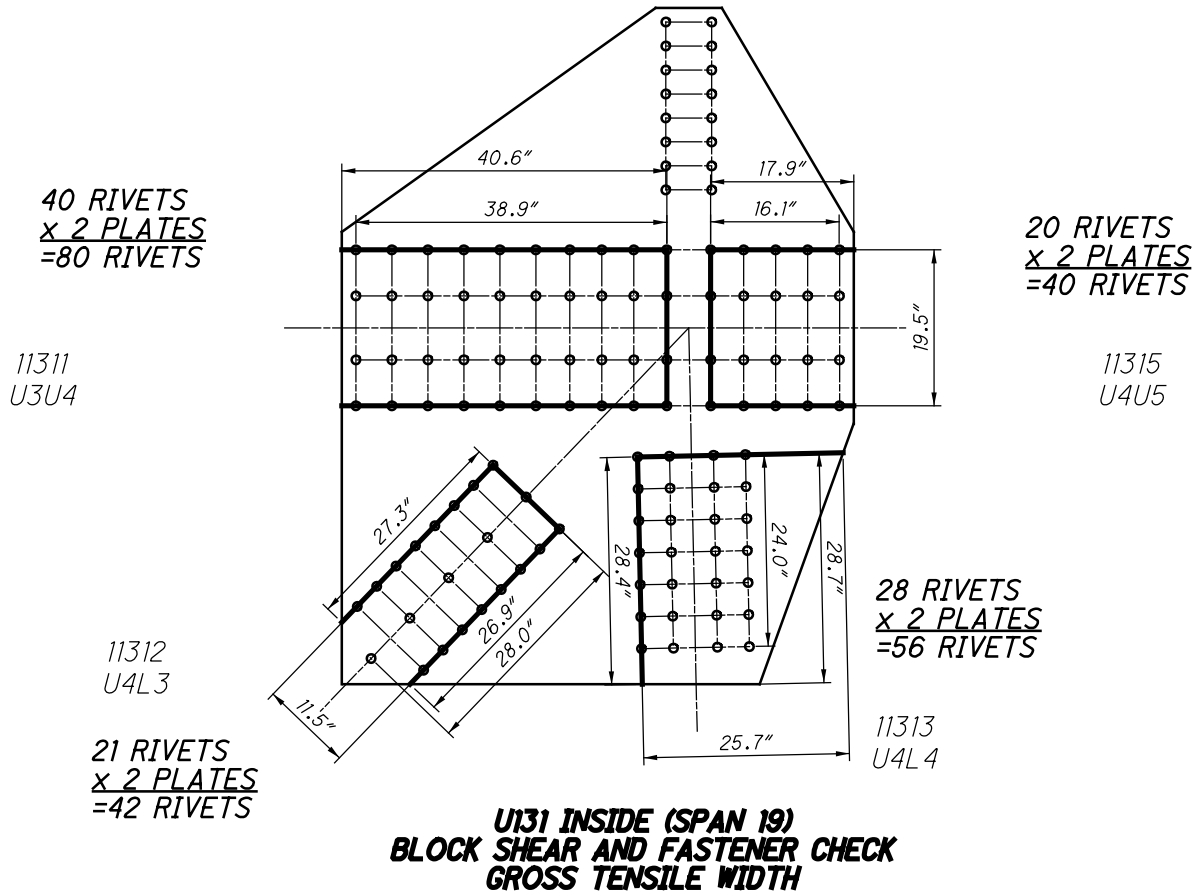
**U131 INSIDE (SPAN 19)
(NEAR SIDE AND FAR SIDE)**

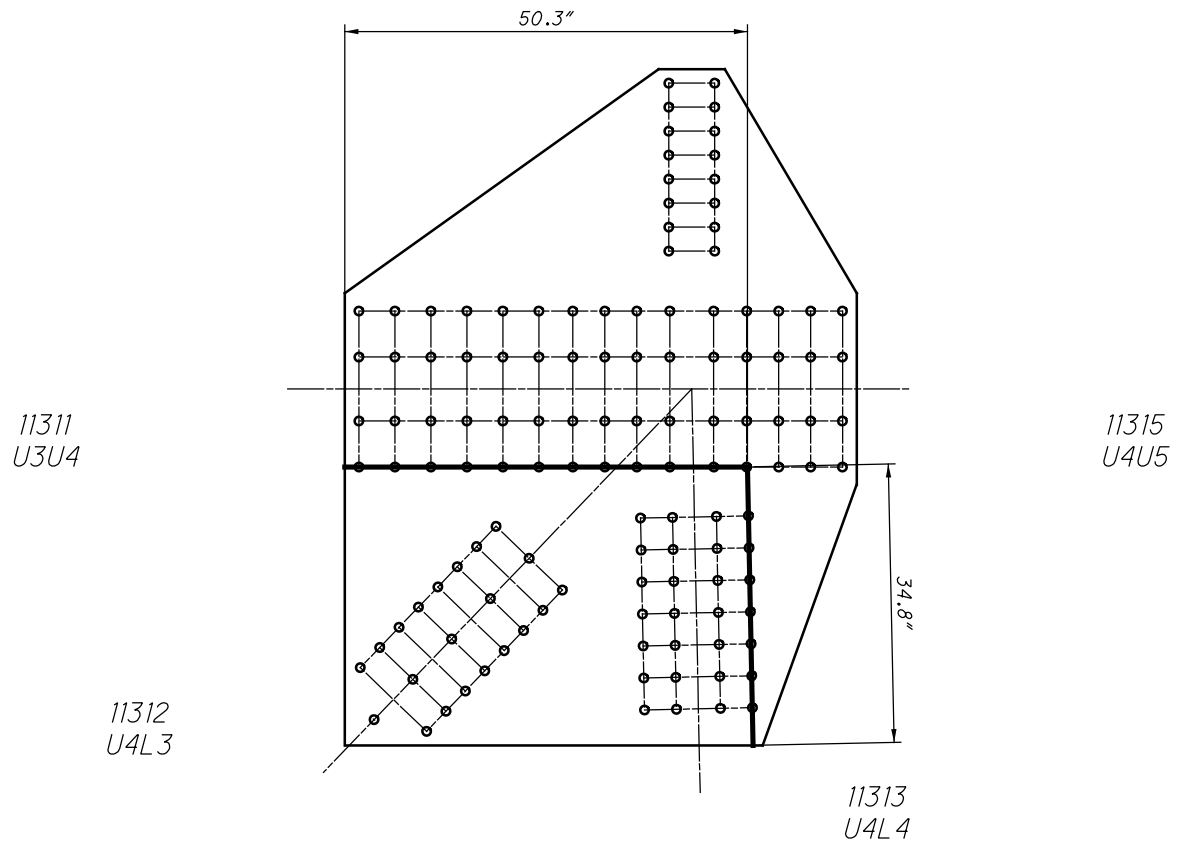


**U131 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**



**U131 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**





U131 INSIDE (SPAN 19) QUADRANT DIMENSIONS

← U_4

11322
U5L4

11325
U5U6

11323
U5L5

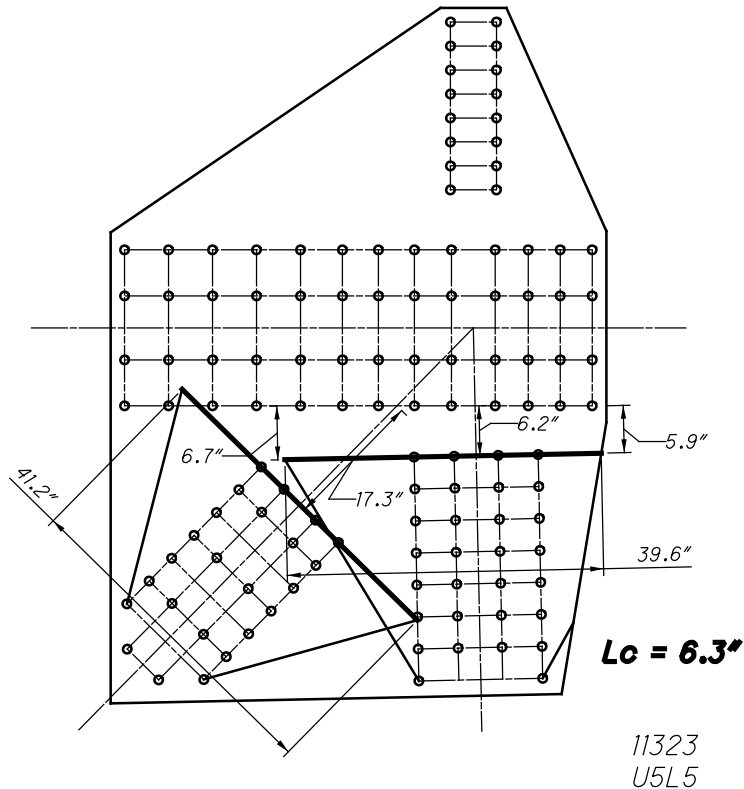
**U132 INSIDE (SPAN 19)
(NEAR SIDE AND FAR SIDE)**

11321
U4U5

11325
U5U6

11322
U5L4

$L_c = 5.8''$



11323
U5L5

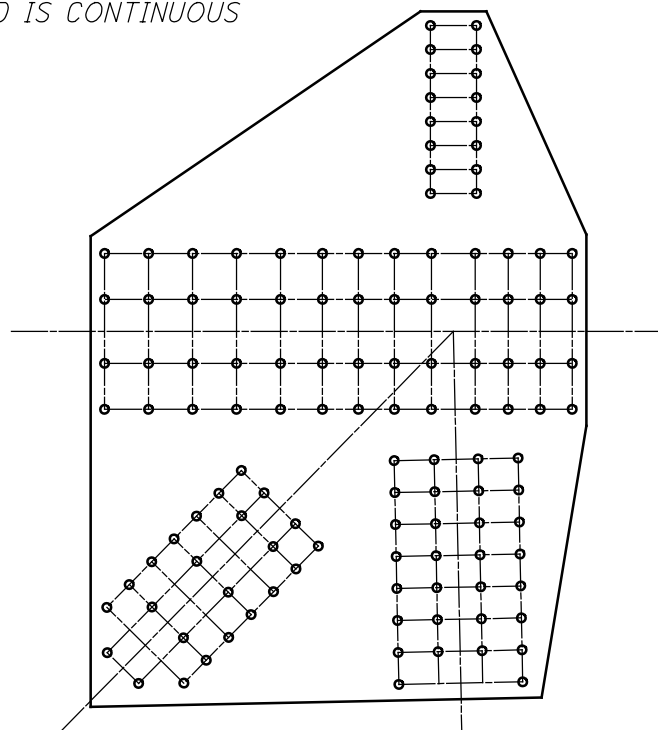
**U132 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

CHORD IS CONTINUOUS

11321
U4U5

11325
U5U6

11322
U5L4



11323
U5L5

**U132 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

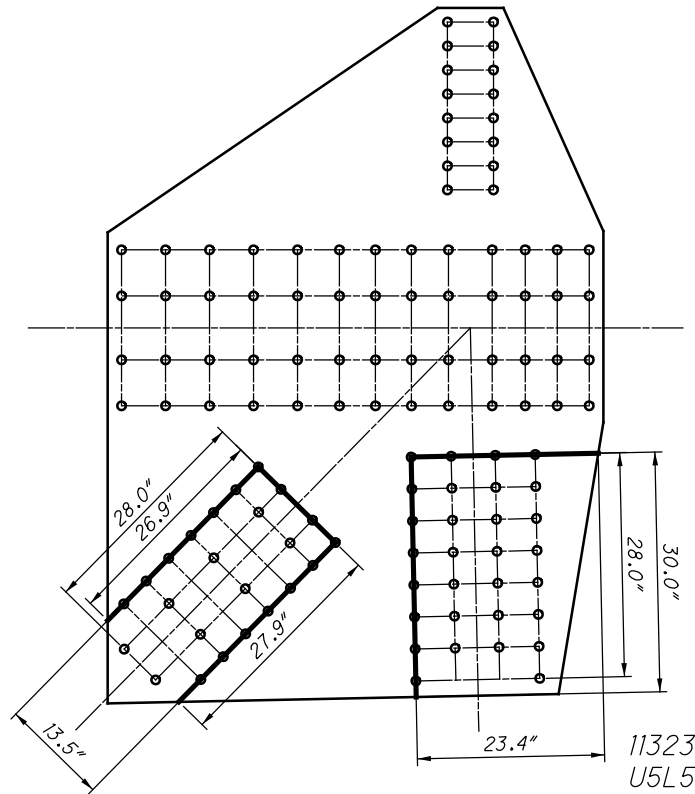
11321
U4U5

11325
U5U6

24 RIVETS
x 2 PLATES
= 48 RIVETS

11322
U5L4

30 RIVETS
x 2 PLATES
= 60 RIVETS

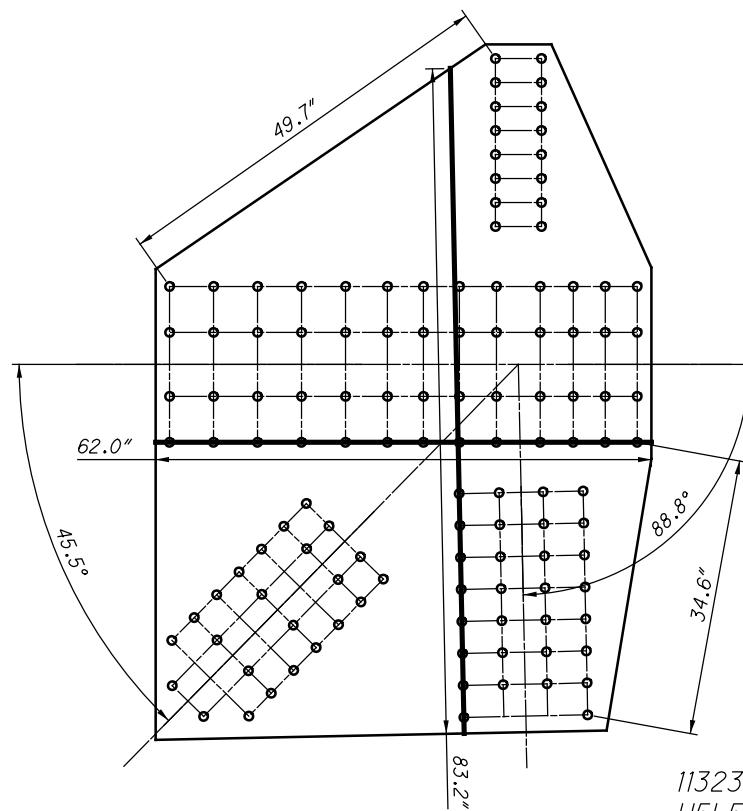


**U132 INSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

11321
U4U5

11325
U5U6

11322
U5L4



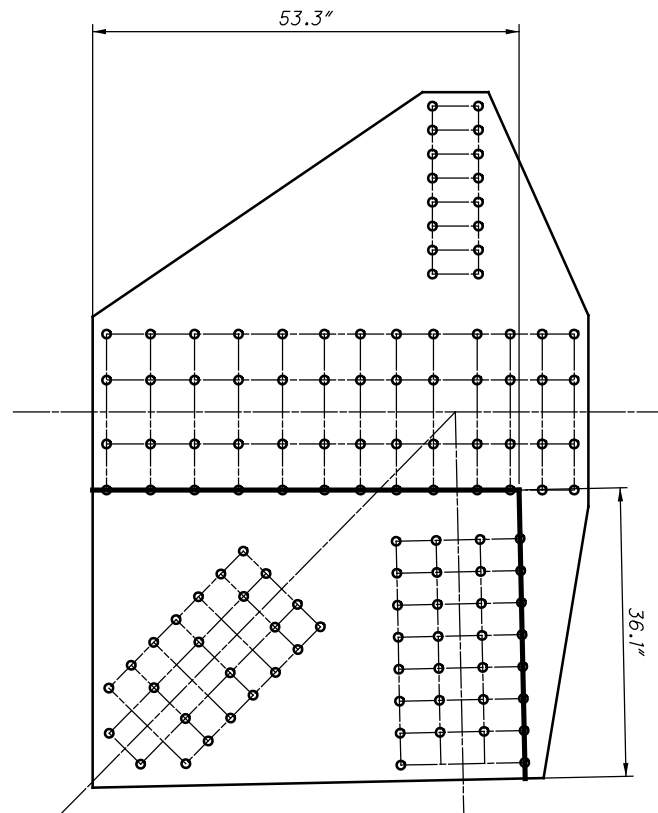
**U132 INSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

11321
U4U5

11325
U5U6

11322
U5L4

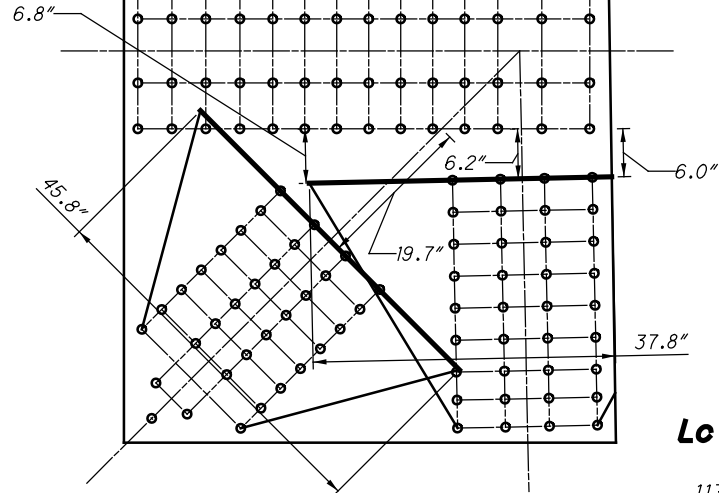
11323
U5L5



**U132 INSIDE (SPAN 19)
QUADRANT DIMENSIONS**

**U133 INSIDE (SPAN 19)
(NEAR SIDE AND FAR SIDE)**

11331
U5U6



11332
U6L5

$L_c = 6.6''$

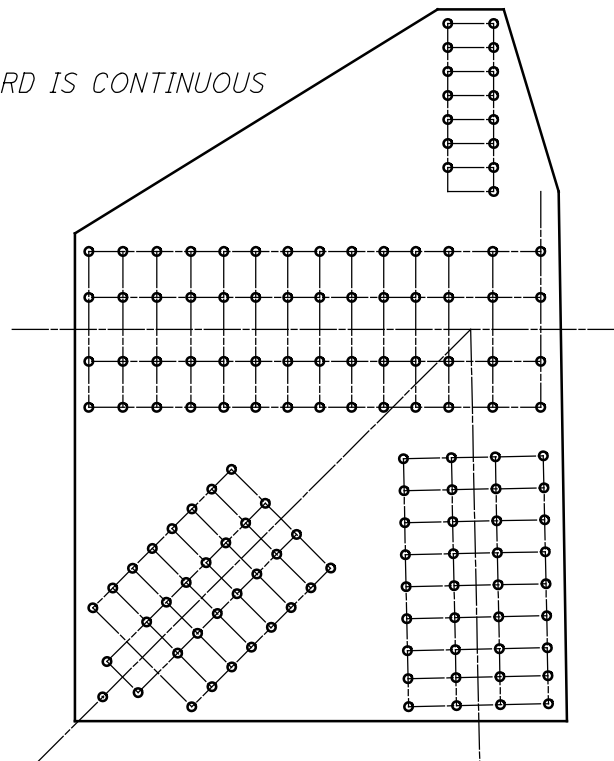
$L_c = 6.3''$

11333
U6L6

**U133 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

CHORD IS CONTINUOUS

11331
U5U6



11332
U6L5

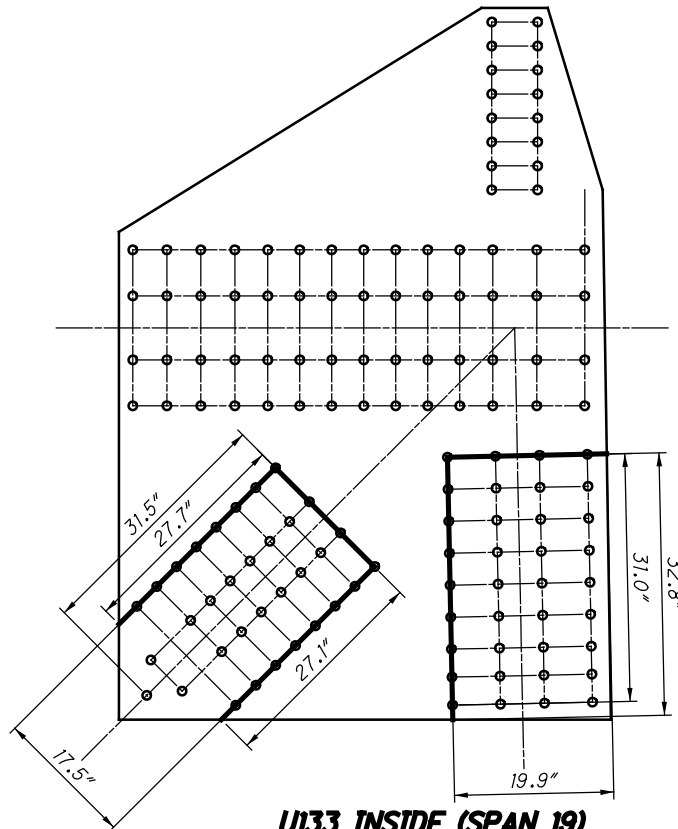
11333
U6L6

**U133 INSIDE (SPAN 19)
WHITMORE WIDTHS AND INDIVIDUAL LB'S**

11331
U5U6

33 RIVETS
 $\times 2$ PLATES
=66 RIVETS

11332
U6L5



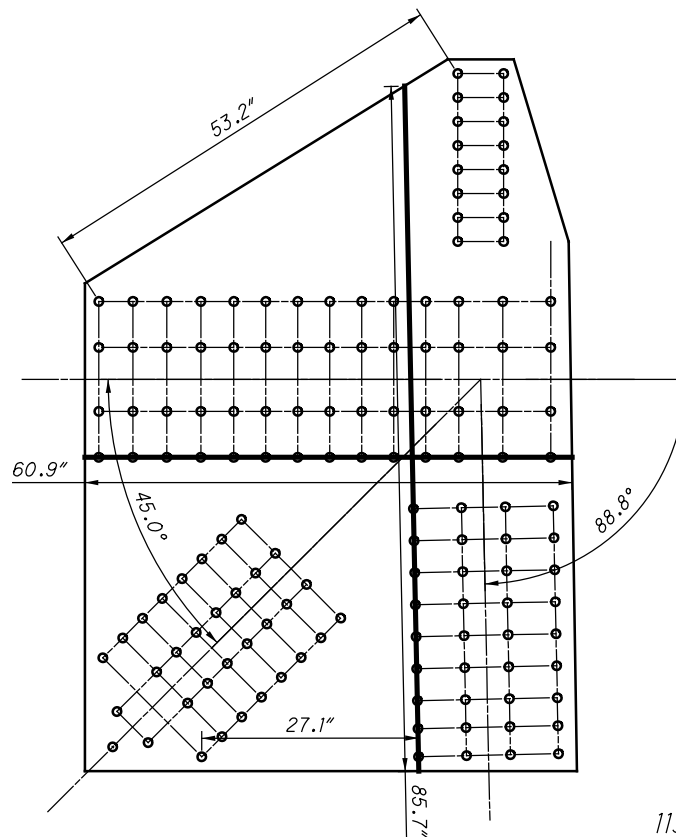
36 RIVETS
 $\times 2$ PLATES
=72 RIVETS

11333
U6L6

**U133 INSIDE (SPAN 19)
BLOCK SHEAR AND FASTENER CHECK
GROSS TENSILE WIDTH**

11331
U5U6

11332
U6L5

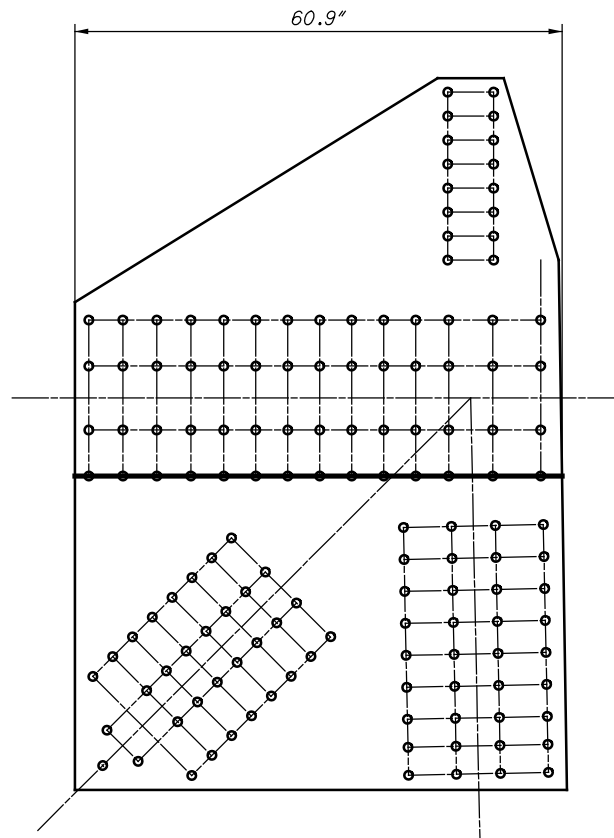


11333
U6L6

**U133 INSIDE (SPAN 19)
SHEAR AND FREE EDGE CHECK**

11331
U5U6

11332
U6L5



11333
U6L6

**U133 INSIDE (SPAN 19)
QUADRANT DIMENSIONS**