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**WELDMENTS**

**EXPLODED VIEW**

**DESIGN/ENGR:** C. O'BRIEN

**CHECKED:** R. JONES

**REV A:** R. JONES

**COMMENTS:** REV A: UPDATE MODEL, TABLE

**SCALE:** 1:24

**WEIGHT:** N/A

**SHEET:** 4 of 66

**Insurance Institute for Highway Safety**

988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

**DRAWING NOT FOR PRODUCTION USE**
### Left Side Shown, Right Side Similar

**Drawing Not For Production Use**

### Dimensions

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### Notes
- All crossmembers welded all around at connection to Z-channels.

### Dimensions (inches [millimeters])

- [2346.3] 92.38
- [2311.4] 91.00
- [2970.2] 116.94
- [1055.7] 41.56
- [44.5] 1.75

---

**Insurance Institute for Highway Safety**
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

**Design/Engr**: C. O'Brien  2/2020
**Drawn**: W. Spivey  9/2020
**Checked**: R. Jones  9/2020
**Rev A**: R. Jones  12/2021

**Comments**: REV A: No Changes

**Scale**: 1:24  **Weight**: N/A  **Sheet**: 7 of 66
CHASSIS CROSSMEMBER SQUARE

MATERIAL: ASTM A36

DIMENSIONS:

-[from 5X3.5X.5 angle]
- UNLESS OTHERWISE SPECIFIED:

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<td>2/2020</td>
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<td>W. SPIVEY</td>
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<td>R. JONES</td>
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COMMENTS:

REV A: NO CHANGES

DO NOT SCALE DRAWING

WEIGHT: 20 KG

SHEET 8 of 66

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

Scale: 1:8
CHASSIS CROSSMEMBER
NOTCHED SHORT LEG

FROM 5X3.5X.5 ANGLE

DRAWING NOT FOR PRODUCTION USE

DIMENSIONS:
INCHES [MILLIMETERS]

[1047.8] 41.25

[127.0] 5.00

[558.8] 22.00

[244.5] 9.63

[2] 50

[920.8] 36.25

[99.2] 3.91

2X Ø 1.00 [25.4] THRU

[127.0] 5.00

[127.0] 5.00

[12.7] .50

[12.7] .50

[88.9] 3.50

[127.0] 5.00

5.00

MATERIAL:
ASTM A36

UNLESS OTHERWISE SPECIFIED:

DO NOT SCALE DRAWING

REV A: NO CHANGES

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

DESIGN/ENG: C. O'BRIEN 2/2020
DRAWN: W. SPIVEY 9/2020
CHECKED: R. JONES 9/2020
REV A: R. JONES 12/2021

COMMENTS:

SCALE: 1:8  WEIGHT: 17 KG  SHEET 9 of 66

FROM 5X3.5X.5 ANGLE

DRAWING NOT FOR PRODUCTION USE
FROM 5X3.5X.5 ANGLE

DRAFTING NOT FOR PRODUCTION USE

CHASSIS CROSSMEMBER
NOTCHED

DIMENSIONS:

[127.0] 5.00
[127.0] 5.00
[12.7] .50

[1047.8] 41.25
[793.8] 31.25

[127.0] 5.00
[88.9] 3.50

[127.0] 5.00

MATERIAL
ASTM A36

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS:
INCHES [MILLIMETERS]

INCHES [MILLIMETERS]

DESIGN/ENG: C. O'BRIEN
DATE: 2/2020

CHECKED: R. JONES
DATE: 9/2020

REV: A
DATE: 12/2021

COMMENTS:
REV A: NO CHANGES

SHEET 10 of 66

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

SCALE: 1:8  WEIGHT: 18 KG  SHEET 10 of 66
THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

FROM 5X3.5X.5 ANGLE

DRAWING NOT FOR PRODUCTION USE

DIMENSIONS: INCHES [MILLIMETERS]
THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

CHASSIS FLOORPAN ASSEMBLY

ASTM A36

DIMENSIONS: INCHES [MILLIMETERS]

\[112.7 \quad 4.44\]
\[793.8 \quad 31.25\]
\(\phi .625" \quad [15.88]\) ROD WELDED ALONG CENTER BACK OF FLOOR PAN

24X \(\phi .56[14.3]\) THRU

4X \(\phi 1.00[25.4]\) THRU

\[1070.0 \quad 42.13\]

\[1828.8 \quad 72.00\]

\[1070.0 \quad 42.13\]

\[1828.8 \quad 72.00\]

558.8

3.36

1019.2

40.13

6.4

.25

85.4

3.36

112.7

4.44

36.5

1.44

84.6

3.33

152.4

6.00

230.2

9.06

946.2

37.25

1070.0

42.13

[152.4] 6.00

[84.6] 3.33

[36.5] 1.44

[112.7] 4.44

[793.8] 31.25

\(\phi .625" \quad [15.88]\) ROD WELDED ALONG CENTER BACK OF FLOOR PAN

24X \(\phi .56[14.3]\) THRU

4X \(\phi 1.00[25.4]\) THRU

- UNLESS OTHERWISE SPECIFIED:
- MATERIAL: ASTM A36
- DIMENSIONS: INCHES [MILLIMETERS]
- DRAWING NOT FOR PRODUCTION USE

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

DESIGN/ENGR:
C. O'BRIEN

DATE:
2/2020

CHECKED:
R. JONES

DATE:
9/2020

REV A:
R. JONES

DATE:
12/2021

COMMENTS:
REV A: NO CHANGES

DO NOT SCALE DRAWING

SCALE: 1:18
WEIGHT: 92 KG
SHEET 13 of 66
**Right Side Shown, Left Side Opposite**

**Drawing Not For Production Use**

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<td>BARRIER STANCHION</td>
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<td>BARRIER STANCHION FILLER PLATE</td>
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<td>87</td>
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</table>

**Dimensions:**

- [50.8] 2.00
- [25.4] 1.00
- [725.5] 28.56
- [44.5] 1.75

---

**Insurance Institute for Highway Safety**

988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

**Design/Eng:**

- C. O'Brien  2/2020
- W. Spivey  9/2020
- R. Jones  9/2020
- R. Jones  12/2021

**Comments:**

- REV A: ADD WELD

---

**Scale:** 1:12  
**Weight:** N/A  
**Sheet:** 14 of 66
**THIRD ANGLE PROJECTION**

DO NOT SCALE DRAWING

**BARRIER STANCHION ASSEMBLY**

- **ITEM NO.**
- **PART NUMBER**
- **PAGE NUMBER**
- **QTY.**

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<td>BARRIER STANCHION HOLE REINFORCEMENT</td>
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**DIMENSIONS:**

**INCHES [MILLIMETERS]**

**SCALE:** 1:12

**WEIGHT:** 30 KG

**Insurance Institute for Highway Safety**

988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

DESIGN/ENGR: C. O'BRIEN  
CHECKED: R. JONES  
REV A: ADD WELDS

DRAWING NOT FOR PRODUCTION USE

**SECTION A-A**

SCALE 1 : 12

**12X 3/4-16 THRU AFTER ASSEMBLY**

**COMMENTS:**

REV A: ADD WELDS
THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

BARRIER STANCHION TUBE

FROM 5 X 5 X .375 TUBE

DRAWING NOT FOR PRODUCTION USE

DIMENSIONS: INCHES [MILLIMETERS]

[9.5] 0.38
[19.1] R.75
[127.0] 5.00

[63.5] 2.50
[127.0] 5.00
[50.8] 2.00

[6.5] THRU
[5/16-18 UNC THRU]

[34.9] 1.38

12X Ø .69 [17.5]
THRU

MATERIAL

UNLESS OTHERWISE SPECIFIED:

ASTM A500

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

DESIGN/ENGR
C. O'BRIEN 2/2020

DRAWN
W. SPIVEY 9/2020

CHECKED
R. JONES 9/2020

REV A
R. JONES 12/2021

COMMENTS:
REV A: NO CHANGES

DO NOT SCALE DRAWING

SCALE: 1:8 WEIGHT: 24 KG SHEET 16 of 66
THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

BARRIER STANCHION
HOLE REINFORCEMENT

MATERIAL

ASTM A36

SCALE: 1:8
WEIGHT: 3.8 KG
SHEET 18 of 66

FROM .75X1.5 BAR

DRAWING NOT FOR PRODUCTION USE

UNLESS OTHERWISE SPECIFIED:

INCHES [MILLIMETERS]

DIMENSIONS:

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

DESIGN/ENGR C. O'BRIEN 2/2020
DRAWN W. SPIVEY 9/2020
CHECKED R. JONES 9/2020
REV A R. JONES 12/2021

REV A: NO CHANGES

DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION

2X 3/8-16 UNC TAPPED HOLE

[108.0] 4.25
[82.6] 3.25
[13.5] .53
[19.1] .75
[38.1] 1.50

FROM .5X1.5 BAR

DRAWING NOT FOR PRODUCTION USE

DESIGN/ENGR: C. O'BRIEN
DRAWN: W. SPIVEY
CHECKED: R. JONES
REV A: NO CHANGES

DIMENSIONS:
INCHES [MILLIMETERS]

WEIGHT: 0.4 KG

SCALE: 1:2

Sheet 19 of 66
Insurance Institute for Highway Safety
988 Dairy Rd. Ruckersville, VA 22968 (434) 985-4600
THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING
BARRIER STANCHION
FILLER PLATE
ASTM A36
SCALE: 1:8
WEIGHT: 4.3 KG

FROM .5X4 BAR
DRAWING NOT FOR PRODUCTION USE

DIMENSIONS:

INCHES [MILLIMETERS]

101.6 [4.00]
431.8 [17.00]
12.7 [.50]

UNLESS OTHERWISE SPECIFIED:
MATERIAL
ASTM A36

REFERENCE:
FROM .5X4 BAR

DRAWING NOT FOR PRODUCTION USE
LEFT SIDE SHOWN, RIGHT SIMILAR

**DRAWING NOT FOR PRODUCTION USE**

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PLACE ALONG TANGENT EDGES OF HOLES

PLACE ALONG TANGENT EDGES OF HOLES

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**Insurance Institute for Highway Safety**
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

**LOWER AXLE HOLE REINFORCEMENT ASSEMBLY**

**SCALE:** 1:8 **WEIGHT:** 9 KG **SHEET** 22 of 66
THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED:

MATERIAL
ASTM A36

DIMENSIONS:
INCHES [MILLIMETERS]

DRAWING NOT FOR PRODUCTION USE

LOWER AXLE HOLE
REINFORCEMENT CHANNEL

FROM C4X7.25 CHANNEL

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

DESIGN/ENGR
CHECKED
REV
COMMENTS:

NAME
C. O’BRIEN
R. JONES
R. JONES

DATE
2/2020
9/2020
9/2020
12/2021

WEIGHT: 7 KG
SHEET 23 of 66

SCALE: 1:8

A4

27.78

27.78

17.4°
STANCHION GUSSET

DIMENSIONS:

- [127.0] 5.00
- [26.8] 1.06
- [57.9] 2.28
- [19.1] R.75
- [56.6] 2.23
- [127.0] 5.00
- [25.4] R1.00
- 45.0°
- ø .56[14.3] THRU ALL

MATERIAL

- ASTM A36

WEIGHT: 1.9 KG

Sheet 25 of 66
THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

UPPER FLANGE REINFORCEMENT

WEIGHT: 3.7 KG

DIMENSIONS:

INCHES [MILLIMETERS]

A4

UNLESS OTHERWISE SPECIFIED:

MATERIAL: ASTM A36

DESIGN/ENGR: C. O'BRIEN  2/2020

DRAWN: W. SPIVEY  9/2020

CHECKED: R. JONES  9/2020

REV A  R. JONES  12/2021

COMMENTS:

REV A: NO CHANGES

DO NOT SCALE DRAWING

DRAWING NOT FOR PRODUCTION USE

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

SCALE: 1:8  WEIGHT: 3.7 KG  SHEET 26 of 66
RIGHT OUTSIDE CHANNEL SHOWN, LEFT SIMILAR

DRAWING NOT FOR PRODUCTION USE

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DIMENSIONS:

- [338.3] 13.32
- [2857.8] 112.51
- [2836.9] 111.69
- [908.1] 35.75
- [887.2] 34.93

DESIGN/ENG: C. O'BRIEN
CHECKED: R. JONES
DRAWN: W. SPIVEY
DATE: 2/2020

INSURANCE INSTITUTE FOR HIGHWAY SAFETY
988 DARIY RD, RUCKERSVILLE, VA 22968 (434) 985-4600

REV A: UPDATE MODEL AND DIMS ADD WELDS

UNLESS OTHERWISE SPECIFIED:

MATERIAL N/A
MATERIAL INCHES (MILLIMETERS)

SCALE: 1:16
WEIGHT: N/A
SHEET 27 OF 66
RIGHT REAR, LEFT FRONT SHOWN, LEFT REAR, RIGHT FRONT OPPOSITE

SEE VENDOR LIST PAGE 62 FOR SUPPLIERS. PART DETAILED FOR PRODUCTION.

DRAWING NOT FOR PRODUCTION USE
THIRD ANGLE PROJECTION

34.7°

DO NOT SCALE DRAWING

LOWER CONTROL ARM FRAME PLATE

AISI C1018

SCALE: 1:2
WEIGHT: 0.5 KG
SHEET 30 of 66

MATERIAL

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS:
INCHES [MILLIMETERS]

[27.0] 1.06

[89.4] 3.52

[4.6] .18

[224.1] 8.82

[27.0] 1.06

[89.4] 3.52

[4.6] .18

[224.1] 8.82

UP 45° R .25

135.0°

UP 45° R .25

135.0°

UP 45° R .25

135.0°

[74.6] 2.94

[14.3] R.56

[94.3] 3.71

[99.3] 3.91

3.6°

34.7°

DRAWING NOT FOR PRODUCTION USE
THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

UPPER CONTROL
FRAME END TAB

DIMENSIONS:

INCHES [MILLIMETERS]

[77.8] 3.06
[31.8] 1.25
[19.1] 0.75
[15.9] 0.63
[6.4] 0.25

MATERIAL
AISI C1018

DRAWING NOT FOR PRODUCTION USE

UNLESS OTHERWISE SPECIFIED:

A4

DIMENSIONS:
INCHES [MILLIMETERS]

[19.1] 0.75
[31.8] 1.25
[19.1] 0.75

SCALE: 1:2
WEIGHT: 0.4 KG
SHEET 32 of 66
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>PAGE #</th>
<th>QTY.</th>
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<tbody>
<tr>
<td>1</td>
<td>3500# 4&quot; DROP 66&quot; HUB-HUB AXLE ASSEMBLY WITH DISC BRAKES</td>
<td>66</td>
<td>1</td>
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<tr>
<td>2</td>
<td>CONTROL ARM TAB LOW INNER</td>
<td>38</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>CONTROL ARM TAB SQUARE SHORT</td>
<td>38</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>AXLE TRUSS</td>
<td>37</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>BENT DROP SPINDLE GUSSET</td>
<td>39</td>
<td>2</td>
</tr>
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<td>6</td>
<td>DROP SPINDLE GUSSET</td>
<td>39</td>
<td>2</td>
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<tr>
<td>7</td>
<td>LOW SHOCK MT SW AXLE</td>
<td>40</td>
<td>2</td>
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<tr>
<td>8</td>
<td>UPPER CONTROL ARM TAB</td>
<td>35</td>
<td>4</td>
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</table>
FROM 3X2X.1875 TUBING

AXLE TRUSS

DIMENSIONS: INCHES [MILLIMETERS]

5.9°

[1374.0] 54.10
[73.0] 2.87
[1370.7] 53.96

DO NOT SCALE DRAWING

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600
DESIGN/ENGR
C. O'BRIEN

DRAWN
W. SPIVEY

CHECKED
R. JONES

REV A
R JONES 12/2021

COMMENTS: REV A: ADD SHEET

DO NOT SCALE DRAWING

AXLE TRUSS

SCALE: 1:2 WEIGHT: 2.7 KG SHEET 37 of 66
THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING
LOWER CONT ARM
AXLE TABS
AISI 1018
SCALE: 1:1
WEIGHT: 0.05 KG

DIMENSIONS:
INCHES [MILLIMETERS]

INNER TAB 2 PER AXLE

ACTUAL EDGE PROFILE DEPENDENT
ON PROFILE OF DROP SPINDLE FOR
SPECIFIC AXLE MODEL

FROM 3/16[5] FLAT STOCK

DRAWING NOT
FOR PRODUCTION USE

C. O'BRIEN
2/2020
R. JONES
9/2020
9/2020

REV A: ADD SHEET
FLAT GUSSET 2 RQD PER AXLE

FROM 3/16[5] PLATE

DRAWING NOT FOR PRODUCTION USE

BENT GUSSET, SAME CUT AS FLAT
ONE SIDE SHOWN
1 RQD PER AXLE, 1 OPP HAND

AXLE DROP GUSSETS
**THIRD ANGLE PROJECTION**

**DO NOT SCALE DRAWING**

**LOWER SHOCK MOUNT ASSEMBLY**

**DIMENSIONS:**
- INCHES [MILLIMETERS]
  - 34.9 [88.4]
  - 1.38 [3.88]

**ITEM NO.** | **PART NUMBER** | **PAGE NO.** | **QTY.**
--- | --- | --- | ---
1 | LOWER SHOCK MOUNT PLATE | 41 | 1
2 | MOD HEX BOLT 5/8-11X5.5 CUT TO LENGTH |  | 1
3 | SHOCK SPACER | 42 | 1
5 | HBOLT 0.6250-11x4.5x1.5-N |  | 1

**UNLESS OTHERWISE SPECIFIED:**

**DESIGN/ENGR:** C. OBRIEN 2/2020
**DRAWN:** W. SPIVEY 9/2020
**CHECKED:** R. JONES 9/2020
**REV A:** R. JONES 12/2021
**COMMENTS:** REV A: REVISED MOUNT, ADD WELDS

**DO NOT SCALE DRAWING**

**Insurance Institute for Highway Safety**
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

**LOWER SHOCK MOUNT ASSEMBLY**

**SCALE:** 1:2  **WEIGHT:** 1.7 KG  **SHEET 40 of 66**
THIRD ANGLE PROJECTION

LOWER SHOCK MOUNT PLATE

FROM .75" PLATE

DRAWING NOT FOR PRODUCTION USE

DIMENSIONS: INCHES [MILLIMETERS]

UNLESS OTHERWISE SPECIFIED:

MATERIAL: ASTM A36

DESIGN/ENGR: C. O'BRIEN 2/2020
DRAWN: W. SPIVEY 9/2020
CHECKED: R. JONES 9/2020
REV: REVISED MODEL

DO NOT SCALE DRAWING

LOWER SHOCK MOUNT PLATE

WEIGHT: 1.2 KG

Insurance Institute for Highway Safety
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Sheet 41 of 66
**DRAWING NOT FOR PRODUCTION USE**

**BARRIER BACKING PLATE HEIGHT ADJUSTABLE IN 2" INCREMENTS, FLIP FOR 1" INCREMENT**

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>PAGE NUMBER</th>
<th>QTY.</th>
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<td>1</td>
<td>BARRIER STANCHION</td>
<td>15</td>
<td>1</td>
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<td>2</td>
<td>BARRIER MOUNTING PLATE</td>
<td>45</td>
<td>1</td>
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<tr>
<td>3</td>
<td>SCHSCREW 0.75-16X1.5X1.5-HX-N</td>
<td>8</td>
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<tr>
<td>4</td>
<td>REGULAR FW 0.375</td>
<td>28</td>
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<tr>
<td>5</td>
<td>HBOLT 0.3750-16X2X1-N</td>
<td>14</td>
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<tr>
<td>6</td>
<td>HNUT 0.3750-16-D-N</td>
<td>14</td>
<td></td>
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<tr>
<td>7</td>
<td>BARRIER CLAMP BAR</td>
<td>47</td>
<td>2</td>
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<tr>
<td>8</td>
<td>DEFORMABLE BARRIER</td>
<td>1</td>
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<tr>
<td>90</td>
<td>HBOLT 0.5000-13X2.5X1.25-N</td>
<td>4</td>
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<tr>
<td>91</td>
<td>HBOLT 0.5000-13X3.5X1.25-N</td>
<td>6</td>
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<tr>
<td>92</td>
<td>HBOLT 0.5000-13X1.5X1.25-N</td>
<td>2</td>
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<td>ITEM NO.</td>
<td>PART NUMBER</td>
<td>PAGE NUMBER</td>
<td>QTY.</td>
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<tr>
<td>1</td>
<td>BARRIER MOUNTING PLATE</td>
<td>45</td>
<td>1</td>
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<tr>
<td>2</td>
<td>MOUNTING PLATE RIB</td>
<td>46</td>
<td>2</td>
</tr>
</tbody>
</table>

**DIMENSIONS:**

- [64.3] 2.53
- [483.4] 19.03
- [302.3] 11.90

**Drawn by:** W. SPIVEY

**Checked by:** R. JONES

**Date:** 2/2020

**Material:** N/A

**Scale:** 1:12

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

**DESIGN/ENG: C. O'BRIEN**

**DRAWN: W. SPIVEY**

**CHECKED: R. JONES**

**REV A: ADD WELDS**

**Comments:**

- DO NOT SCALE DRAWING

**Sheet 44 of 66**
BARRIER MOUNTING PLATE

DIMENSIONS:

INCHES [MILLIMETERS]

- 8X Ø .78 [19.8] THRU ALL
- 14X Ø .44 [11.1] THRU ALL
- Ø 1.38 [34.9] X 82.00°

MATERIAL

ASTM A36

UNLESS OTHERWISE SPECIFIED:

- DRAWN: C. O'BRIEN 2/2020
- CHECKED: R. JONES 9/2020
- REV: A 12/2021

DO NOT SCALE DRAWING

WEIGHT: 176 KG

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SCALE: 1:12 SHEET 45 of 66
THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

BARRIER MOUNTING
PLATE RIB

ASTM A36
SCALE: 1:8
WEIGHT: 19 KG

MATERIAL

FROM MC6X12
DRAWING NOT FOR PRODUCTION USE

DIMENSIONS:
INCHES [MILLIMETERS]

[63.4] 2.50
[1095.4] 43.13
[152.4] 6.00

[63.4] 2.50
[7.9] .31

Insurance Institute for Highway Safety
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DESIGN/ENGR
NAME
DATE

C. O'BRIEN 2/2020
R. JONES 9/2020
R. JONES 12/2021

CHECKED
REV A
REV A: NO CHANGES

UNLESS OTHERWISE SPECIFIED:
MATERIAL
ASTM A36

SCALE: 1:8
WEIGHT: 19 KG
SHEET 46 of 66
BARRIER CLAMP BAR

DIMENSIONS: INCHES [MILLIMETERS]

FROM .5X.125 BAR

DO NOT SCALE DRAWING

MATERIAL

UNLESS OTHERWISE SPECIFIED:

ASTM A36

DESIGN/ENGR
C. O'BRIEN

WEIGHT: 5.3 KG

DRAWN W. SPIVEY

W. SPIVEY

CHECKED R. JONES

R. JONES

REV: A

R. JONES

12/2021

REV A: NO CHANGES

COMMENTS:

DO NOT SCALE DRAWING

SHEET 47 of 66

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

DATE 2/2020

NAME
C. O'BRIEN

DATE 9/2020

NAME
W. SPIVEY

DATE 9/2020

NAME
R. JONES

DATE 12/2021

NAME
R. JONES

DATE

SCALE: 1:12

WEIGHT: 5.3 KG

SHEET 47 of 66

DIMENSIONS:

INCHES [MILLIMETERS]

7X .44 [11.1] THRU
**Third Angle Projection**

**Do Not Scale Drawing**

**Greenhouse Assembly**

**Dimensions:**

- **Inches (Millimeters):**
  - A4

**Item No.** | **Part Number** | **Page Number** | **QTY.**
--- | --- | --- | ---
1 | Greenhouse Front Tab, Left and Right | 50 | 1
2 | Greenhouse Rear Tab | 51 | 1
3 | Greenhouse Tubing Left | 49 | 1
4 | Greenhouse Tubing, Right | 49 | 1
5 | FRT Cam Plate Crossmember | 49 | 1
6 | Rear Cam Plate Crossmember | 49 | 1
7 | Camera Mount Plate | 52 | 1
8 | HBolt 0.3125-18x1x0.875-N | 4 | 4
9 | Left Sign Plate | 53 | 1
10 | Right Sign Plate | 53 | 1
89 | HBolt 0.5000-13x2.5x1.25-N | 4 | 4
90 | HBolt 0.5000-13x3.5x1.25-N | 6 | 6
91 | HBolt 0.5000-13x1.5x1.25-N | 2 | 2

**Insurance Institute for Highway Safety**
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

**Design/Engr:**
- C. O'Brien 2/2020
- W. Spivey 9/2020
- R. Jones 9/2020

**Checked:**
- R. Jones 9/2020

**Drawn:**
- W. Spivey 9/2020

**Comments:**
- REV A: NO CHANGES

**Scale:** 1:12
**Weight:** 42 KG
**Sheet:** 48 of 66

**Drawing Not For Production Use**
GREENHOUSE REAR TAB

FROM .375X3 BAR

DRAWING NOT FOR PRODUCTION USE

MATERIAL: AISI 1018

DIMENSIONS:

INCHES [MILLIMETERS]

.42 [10.7] THRU ALL
1/2-13 UNC THRU ALL

[101.6] 4.00

[25.4] 1.00

[76.2] 3.00

[9.5] .38

SCALE: 1:2
WEIGHT: 0.6 KG
SHEET 51 of 66

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600
2X $\phi$ 1.13 [28.6] THRU ALL

FROM 1.25X6 BAR

DRAWING NOT FOR PRODUCTION USE

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<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>PAGE NUMBER</th>
<th>QTY.</th>
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<tr>
<td>2</td>
<td>BALLAST PLATE</td>
<td>60</td>
<td>2</td>
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<td></td>
<td>HANDLES LONG</td>
<td></td>
<td></td>
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</tbody>
</table>
THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED:
MATERIAL: HR A36

DIMENSIONS:
INCHES [MILLIMETERS]
152.4 [6.00]
76.2 [3.00]
4.72
16.72
21.44

THRU ALL

2X Ø 1.13 [28.6] THRU ALL

[6.4]
.25
[15.9]
.63
[544.5]
21.44

FROM .625X6 BAR

DRAWING NOT FOR PRODUCTION USE

ITEM NO. | PART NUMBER | PAGE NUMBER | QTY.
--- | --- | --- | ---
2 | BALLAST PLATE HANDLE SHORT | 61 | 2

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

BALLAST PLATE 10.1KG

SCALE: 1:8 | WEIGHT: 10.1 KG | SHEET 58 of 66
BALLAST PLATE 8.1KG

DIMENSIONS:
INCHES [MILLIMETERS]
[152.4] 6.00
[76.2] 3.00
4.72
16.72
21.44

UNLESS OTHERWISE SPECIFIED:
MATERIAL HR A36

FROM .5X6 BAR
DRAWING NOT FOR PRODUCTION USE

Insurance Institute for Highway Safety
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BALLAST PLATE 8.1KG
SCALE: 1:8  WEIGHT: 8.1 KG  SHEET 59 of 66
FROM 1X1X.125 ANGLE

DRAWING NOT FOR PRODUCTION USE

DIMENSIONS:

INCHES [MILLIMETERS]

25.4 [640.0]
1.00 [25.4]
[127.0] 5.00

2X .50

[12.7] [3.2] .13

MATERIAL
ASTM A36

UNLESS OTHERWISE SPECIFIED:

INSURANCE INSTITUTE FOR HIGHWAY SAFETY
988 DARY RD, RUCKERSVILLE, VA 22968 (434) 985-4600

DESIGN/ENG: C. O'BRIEN 2/2020
CHECKED: R. JONES 9/2020
REV A: R. JONES 12/2021

REV A: NO CHANGES

WEIGHT: 0.15 KG SHEET 60 of 66
THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

BALLAST PLATE
HANDLES SHORT

ASTM A36

SCALE: 1:1
WEIGHT: 0.11 KG

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988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

DESIGN/ENG ING
C. O'BRIEN 2/2020
R. JONES 9/2020
R. JONES 12/2021

CHECKED
R. JONES 9/2020

REV: A

REV A: NO CHANGES

FROM 1X1X.125 ANGLE

DRAWING NOT FOR PRODUCTION USE

DIMENSIONS:
[25.4] [127.0] [1.00] [5.00]

[2X] [12.7] [R.50]

[3.2] [0.13]

[12.7] [0.50]

DO NOT SCALE DRAWING

MATERIAL
5
4
3
2
1

UNLESS OTHERWISE SPECIFIED:

Sheet 61 of 66
### PART NUMBER

<table>
<thead>
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<th>PART NUMBER</th>
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<tbody>
<tr>
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<td>245/70R-17 TIRE AND WHEEL</td>
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<tr>
<td>2</td>
<td>SHOCK UPPER SPACER MOUNT</td>
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<tr>
<td>3</td>
<td>3500# 4&quot; DROP 66&quot; HUB-HUB AXLE W/ 10&quot; DISC BRAKES</td>
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<td>4</td>
<td>24159901 SHOCK 59120400 400 LBS/IN SPRING FRONT 59120300 300 LBS/IN SPRING REAR</td>
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<tr>
<td>5</td>
<td>14&quot; CONTROL ARM</td>
</tr>
<tr>
<td>6</td>
<td>HBOLT 0.6250-11X3X1.5-N</td>
</tr>
<tr>
<td>7</td>
<td>HNUT 0.6250-11-D-N</td>
</tr>
</tbody>
</table>

SEE SHEET 66 FOR PARTS LISTINGS
14" CONTROL ARM

ITEM NO.  | PART NUMBER                      | QTY. |
-----------|----------------------------------|------|
1          | THREE QUARTER X FIVE EIGHTHS ROD END | 2    |
2          | 14" TUBE                          | 1    |
3          | 0.75-16 LH JAM NUT                | 1    |
4          | 0.75-16 RH JAM NUT                | 1    |

SEE SHEET 66 FOR PARTS LISTINGS

DIMENSIONS:

- 14.00" (355.6 mm)
- 19.55" (496.6 mm)
- 18.00" (457.2 mm)

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

MATERIAL: N/A

DESIGN/ENGR: C. O'BRIEN
DRAWN: W. SPIVEY
CHECKED: R. JONES
REV A

COMMENTS:

REV A: DELETE 22" CONTROL ARM SHEET

DO NOT SCALE DRAWING

Insurance Institute for Highway Safety
988 Dairy Rd, Ruckersville, VA 22968 (434) 985-4600

14" CONTROL ARM

SCALE: 1:4
WEIGHT: 1.2 KG
SHEET 65 of 66
<table>
<thead>
<tr>
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<th>Vendor Part Number</th>
<th>Manufacturer</th>
<th>Description</th>
<th>Dimensions/Options</th>
<th>Vendor</th>
<th>Vendor Address</th>
<th>Vendor Phone</th>
<th>Vendor Website</th>
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<td>4</td>
<td>VN2157765</td>
<td>American Racing</td>
<td>VN215 Classic Torq Thrust II 1 Piece</td>
<td>17x7, 5x4.5 bolt pattern, 4 in. backspace</td>
<td>Summit Racing</td>
<td>P.O. Box 909, Akron, OH 44309-0909</td>
<td>800-230-3030</td>
<td>summitracing.com</td>
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<td>20</td>
<td>611-292</td>
<td>Dorman Products</td>
<td>Wheel Nut, Dometop</td>
<td>1/2-20, 13/16 Hex, 1.5 in length</td>
<td>Auto parts retailer</td>
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<td>Triangulated 4 Link Rear Suspension Weld On Bracket Kit</td>
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<td>Ridetech</td>
<td>350 S. St. Charles St, Jasper, IN 47546</td>
<td>812-481-4787</td>
<td>ridetech.com</td>
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<td>4</td>
<td>24139901</td>
<td>Ridetech</td>
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<td>350 S. St. Charles St, Jasper, IN 47546</td>
<td>812-481-4787</td>
<td>ridetech.com</td>
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<td>350 S. St. Charles St, Jasper, IN 47546</td>
<td>812-481-4787</td>
<td>ridetech.com</td>
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<td>2</td>
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<td>2.5&quot; ID, 350 lb/in rate</td>
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<td>350 S. St. Charles St, Jasper, IN 47546</td>
<td>812-481-4787</td>
<td>ridetech.com</td>
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<td>12&quot; Coilover Spring</td>
<td>2.5&quot; ID, 400 lb/in rate</td>
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<td>350 S. St. Charles St, Jasper, IN 47546</td>
<td>812-481-4787</td>
<td>ridetech.com</td>
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<td>8&quot; Coilover Spring</td>
<td>2.5&quot; ID, 550 lb/in rate</td>
<td>Ridetech</td>
<td>350 S. St. Charles St, Jasper, IN 47546</td>
<td>812-481-4787</td>
<td>ridetech.com</td>
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<td>91008036</td>
<td>Speedway</td>
<td>Forged Rod End</td>
<td>3/4-16 RH Thread</td>
<td>Speedway Motors, Inc.</td>
<td>340 Victory Ln, Lincoln, NE 68528</td>
<td>402-323-3200</td>
<td>speedwaymotors.com</td>
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<td>8</td>
<td>91008037</td>
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<td>Forged Rod End</td>
<td>3/4-16 LH Thread</td>
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<td>340 Victory Ln, Lincoln, NE 68528</td>
<td>402-323-3200</td>
<td>speedwaymotors.com</td>
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<td>8</td>
<td>1063414</td>
<td>AFCO</td>
<td>Swedged Steel Tube</td>
<td>14&quot; long, 3/4-16 thread, black</td>
<td>Speedway Motors, Inc.</td>
<td>340 Victory Ln, Lincoln, NE 68528</td>
<td>402-323-3200</td>
<td>speedwaymotors.com</td>
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<td>8</td>
<td>Various</td>
<td>Jam Nut</td>
<td>3/4-16 RH Thread</td>
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<td>4</td>
<td>91636010</td>
<td>Speedway</td>
<td>Colover Shock Mount Bolt w/ Support Collar</td>
<td>4.5&quot; long, 5/8-18 thread, 5/8 stud diameter</td>
<td>Speedway Motors, Inc.</td>
<td>340 Victory Ln, Lincoln, NE 68528</td>
<td>402-323-3200</td>
<td>speedwaymotors.com</td>
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<td>2</td>
<td>H381272</td>
<td>Dorman Products</td>
<td>Frame to Axle Brake Hose w/ Tee</td>
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<td>Auto parts retailer</td>
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<td>1</td>
<td>3/16&quot; Copper Nickel Brake Line Kit w/ Fittings</td>
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<td>25 ft</td>
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<td>The Stop Shop</td>
<td>5775 Zarley St. Suite B, New Albany, OH 43054</td>
<td>614-557-3442</td>
<td>thestopshop.com</td>
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<td>16</td>
<td>Various</td>
<td>Hex Bolt</td>
<td>0.625-11 X 3 X 1.5 - N</td>
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<td>Hex Bolt</td>
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<td>0.625-11 - D - N</td>
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