GENERAL NOTES

- REFER TO ROADWAY PLANS FOR THE ACTUAL CONFIGURATION AND LOCATION OF TRAFFIC SIGNAL HEADS AND SIGNS MARKED WITH A ■ .
- ALL POLES AND ARMS SHALL BE FABRICATED WITH ASTM A572 GRADE 65 STEEL LUMINAIRE ARMS MAY BE FABRICATED WITH ASTM A595 GRADE A STEEL WITH A MINIMUM YIELD POINT OF 55 KSI.
- POLES AND ARMS SHALL COMPLY WITH THE DIMENSIONAL TOLERANCES SPECIFIED IN ASTM A500, A501,
- 4. ALL POLES AND ARMS SHALL BE ROUND OR DODECAGONAL (12 SIDED) TUBES WITH A 0.14 IN/FT TAPER.
- HARDENED WASHERS SHALL CONFORM TO ASTM F436.
- ALL POLES AND ARMS SHALL BE GALVANIZED INSIDE AND OUTSIDE AFTER FABRICATION IN ACCORDANCE WITH ASTM A123, UNLESS PAINTING IS CALLED FOR ON THE PLANS. PAINTING SHALL CONFORM TO SECTION 522, DUPLEX COATING SYSTEM.
- 7. POLE AND MAST ARM SPLICES SHALL BE MECHANICALLY FORCED TOGETHER FOR A SNUG FIT.
- BLIND BOLTS SHALL BE A307 GRADE A STEEL AND ARE NOT REQUIRED FOR MULTISIDED POLES.
 MECHANICAL ALTERNATIVES TO BLIND BOLTS UTILIZING FRICTION, KEYS, INTERLOCKING TEETH OR A
 COMBINATION THEREOF TO PREVENT THE BUILT-UP BOX FROM TWISTING ON THE POLE MAY BE USED AS
 APPROVED BY CDOT STAFF BRIDGE.
- ALL MAST ARMS MORE THAN 40 FT IN LENGTH SHALL BE TWO PIECE CONSTRUCTION TO LIMIT ARM WEIGHTS.
- GALVANIZED ASTM A325 H.S. BOLTS SHALL BE USED FOR ATTACHING LUMINAIRE AND MAST ARMS. A LUBRICATED TIGHTENING TORQUE OF 178 FT-LBS FOR 34" DIAMETER BOLTS, 395 FT-LBS FOR 1" DIAMETER BOLTS AND 1300 FT-LBS FOR 1½" DIAMETER BOLTS SHALL BE USED TO TIGHTEN ALL H.S. BOLTS. MAST ARMS SHALL BE TEMPORAFILY SUPPORTED TO TAKE LOAD OFF OF FIELD CONNECTIONS WHILE BOLTS ARE TIGHTENED IN ORDER TO FIRMLY SEAT THE FLANGE PLATE. BOLTS SHALL BE SEQUENTIALLY TIGHTENED. ASSUMING 12 BOLTS AND A CLOCK FACE, THE TIGHTENING SEQUENCE WOULD BE 12, 6, 1, 7, ETC. THIS PROCESS SHALL BE CONTINUED UNTIL NO LOOSE BOLTS ARE FOUND AFTER ALL BOLTS HAVE BEEN INITIALLY TIGHTENED.
- CAST POLE END CAP TO BE SECURED IN PLACE WITH 3 SET SCREWS.
- 12. ALL SIGNAL HEADS, SIGNS, AND HARDWARE SHALL BE FIELD POSITIONED
- 13. ACCESSORIES TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.
- ALL PLATES AND STIFFENERS SHALL BE FABRICATED WITH AASHTO M270 (ASTM A709) GRADE 36 STEEL AND SHALL COMPLY WITH THE DIMENSIONAL TOLERANCES SPECIFIED IN ASTM A6. ALL HANDHOLES SHALL BE FABRICATED WITH ASTM A572 GRADE 42 STEEL.
- 15. LEVELING CONCRETE SHALL BE 3000 PSI AIR ENTRAINED CONCRETE VIBRATED IN PLACE BELOW THE POLE BASE PLATE.
- THE DESIGNS HEREIN ASSUME THAT SIGNALS ARE INSTALLED WITHIN THE ROADWAY EARTHWORK PRISM WITH THE FOLLOWING SOIL PARAMETERS:
 SOIL DENSITY g = 110 LB./CU.FT.
 SOIL COHESION = 750 LB./SO.FT.FOR MEDIUM STIFF COHESIVE SOIL
 SOIL Ø ANGLE = 30° FOR MEDIUM DENSE COHESIONLESS SOIL
 SF = 1.5 FOR TORSIONAL RESISTANCE AND 3.0 FOR FLEXURAL RESISTANCE
- 17. CONTACT THE ENGINEER IF ANY OF THE FOLLOWING SDIL CONDITIONS ARE ENCOUNTERED DURING DRILLING:

 (A) SIGNALS WILL NOT BE INSTALLED WITHIN THE ROADWAY EARTHWORK PRISM.

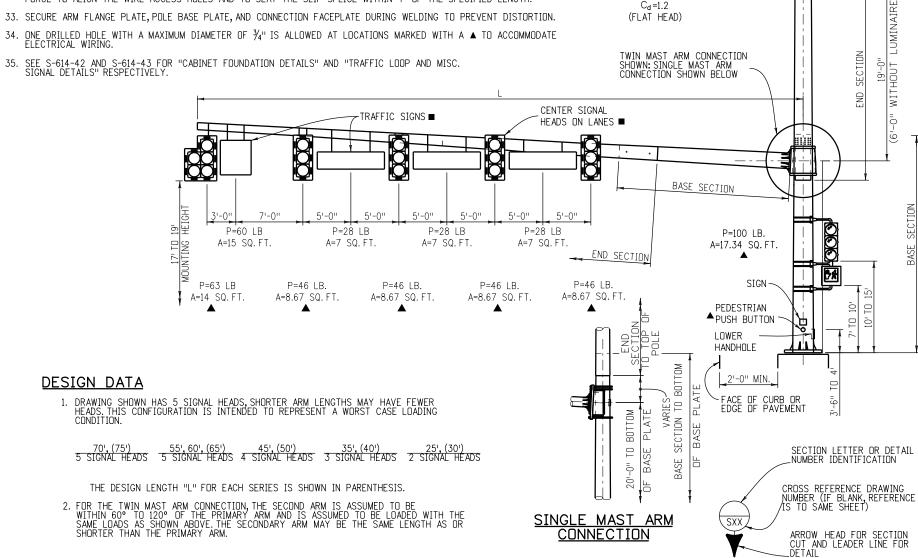
 (B) THE SDIL HAS A HIGH ORGANIC CONTENT OR CONSISTS OF SATURATED SILT AND CLAY.

 (C) THE SITE WON'T SUPPORT THE WEIGHT OF THE DRILLING RIG.

 (D) THE FOUNDATION SOILS ARE NOT HOMOGENOUS.

 (E) FIRM BEDROCK IS ENCOUNTERED.
- 18. CAISSONS SHALL BE PLACED AGAINST UNDISTURBED EARTH. WET OR CAVING HOLES SHALL BE BACKFILLED WITH FLOW-FILL AND REDRILLED AFTER A THREE DAY CURING PERIOD WITHOUT THE USE OF A CASING.
- 19. CAISSONS SHALL BE CONSTRUCTED WITH AIR ENTRAINED CLASS BZ CONCRETE IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATIONS. REINFORCING STEEL SHALL BE GRADE 60.
- 20. CAISSON CONCRETE MUST HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,700 PSI BEFORE INSTALLING THE SIGNAL STRUCTURE; VERIFY CONCRETE STRENGTH WITH MATURITY METER.
- 21. U-BOLTS AND ANCHOR BOLTS SHALL BE FABRICATED WITH AASHTO M314-90 GRADE 55 STEEL.
- 22. ANCHOR BOLTS SHALL BE FABRICATED WITH HEAVY HEX NUTS AND FLAT WASHERS, AND EXTENDED A MINIMUM OF 3/4" ABOVE THE NUT AFTER COMPLETING THE TIGHTENING PROCESS. THREAD UPPER 12 INCHES AND GALVANIZE UPPER 13 INCHES OF THE ANCHOR BOLTS. FIELD WELDING OF ANCHOR BOLTS TO REBAR DURING ERECTION WILL NOT BE ALLOWED. ANCHOR BOLTS SHALL BE SET WITH A STEEL TEMPLATE UNTIL THE CONCRETE HAS CURED AT LEAST TWO DAYS. THE ANCHOR BOLTS SHALL BE TIGHTENED USING THE TURN-OF-NUT METHOD. THE BOLTS SHALL FIRST BE TIGHTENED TO SNUG TIGHT, WHICH IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN THE UPPER AND LOWER NUTS ARE IN FIRM CONTACT WITH THE BASE PLATE. WITH MAST ARMS FREE TO DEFLECT, THE UPPER AND LOWER NUTS SHALL THEN EACH BE ROTATED AN ADDITIONAL \$\frac{1}{12}\$ TURN (30° ± °5) WITH A SUIGGING HYDRAULIC OR ATE IMPACT WRENCH WITH A SLUGGING, HYDRAULIC OR AIR IMPACT WRENCH.
- 23. WELDING OF STEEL SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWS D1.1. ALL AREAS TO BE WELDED SHALL BE GROUND TO BRIGHT METAL. ALL WELDING AND REQUIRED TESTING SHALL BE COMPLETE BEFORE ANY MATERIAL IS GALVANIZED. ALL CIRCUMFERENTIAL AND STIFFENER WELDS SHALL BE NON-DESTRUCTIVELY TESTED USING THE ENHANCED MAGNETIC PARTICLE METHOD IN ACCORDANCE WITH SUBSECTION 509.18 (d) OF THE STANDARD SPECIFICATIONS. THE ACCEPTANCE CRITERIA IS STATED IN TABLE 6.1 OF ANSI/AWS D1.1. ALL LONGITUDINAL WELDS WITHIN 6 INCHES OF FULL PENETRATION CIRCUMFERENTIAL GROOVE WELDS AND FULL PENETRATION GROOVE WELDS SHALL BE INSPECTED AS SPECIFIED ABOVE. MAXIMUM WELD UNDERCUT SHALL BE

- 24. ALL ELECTRICAL CONNECTIONS TO THE SIGNALS SHALL BE GROUNDED IN ACORDANCE WITH APPLICABLE ELECTRICAL CODES.
- 25. TRAFFIC SIGNAL STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, FOURTH EDITION, 2001.
- 26. A DESIGN WIND VELOCITY OF 100 MPH AND ONE 12'LANE WITH A 65 MPH TRUCK INDUCED GUST LOADING HAVE BEEN USED FOR THE DESIGNS HEREIN.
- 27. CERTIFIED MILL TEST REPORTS INCLUDING CHARPY V-NOTCH TEST RESULTS, WELD INSPECTION REPORTS AND ENHANCED MAGNETIC PARTICLE TEST REPORTS SHALL BE SUBMITTED TO CDOT STAFF BRIDGE, 2829 W HOWARD PLACE, DENVER COLORADO, 80204 AS SOON AS THEY BECOME AVAILABLE. CVN TEST RESULTS FOR ASTM A572 GRADES 42 AND 65 STEEL SHALL HAVE A MINIMUM VALUE OF 15 FT-LBS AT 40°F AS PER THE H FREQUENCY TEST REQUIREMENTS IN
- 28. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH SUBSECTION 105.02 OF THE STANDARD SPECIFICATIONS.
- 29. DEFINITIONS: U.O.N. = UNLESS OTHERWISE NOTED W.P. = WORK POINT
- 30. TRAFFIC SIGNALS MOUNTED ON MAST ARMS SHALL BE FURNISHED WITH ASTRO TYPE MOUNTING BRACKETS.
- 31. END SECTION DIAMETERS MUST BE INCREASED TO ACCOMMODATE OUT-OF-ROUNDNESS, GALVANIZING THICKNESS AND SEAM WELD PROFILES TO PROVIDE THE MINIMUM REQUIRED ARM SLIP SPLICE LENGTHS AND POLE MEMBER OVERLAPS.
- 32. USE 35'OF 36" HIGH STRENGTH CHAIN (SAFE WORKING LOAD OF 5,000 LB.), TWO "S" SHAPED HOOKS PROPERLY FORGED FROM 1" SQUARE BAR STOCK AND TWO 4,000 LB. CAPACITY COME-ALONGS TO SEAT THE POLE END SECTION ON ITS BASE SECTION BY ATTACHING THE COME-ALONGS TO OPPOSING ACCESS HOLES IN THE BUILT-UP BOX WITH THE "S" SHAPED HOOKS AND PULLING AGAINST THE CHAIN WHICH IS STRUNG UNDERNEATH THE POLE BASE PLATE. APPLY ENOUGH FORCE TO ALIGN THE WIRE ACCESS HOLES AND TO SEAT THE SLIP SPLICE WITHIN 4" OF THE SPECIFIED LENGTH.
- 33. SECURE ARM FLANGE PLATE, POLE BASE PLATE, AND CONNECTION FACEPLATE DURING WELDING TO PREVENT DISTORTION.
- 35. SEE S-614-42 AND S-614-43 FOR "CABINET FOUNDATION DETAILS" AND "TRAFFIC LOOP AND MISC. SIGNAL DETAILS" RESPECTIVELY.



P=10 LB.

 $C_d = 1.2$ (CAMERA)

P=75 LB. A=3.3 SQ. FT.

A=1.125 SQ. FT.

| Computer File Information | | | Sheet Revisions |
|--|-----------------|----------|----------------------|
| Creation Date: 07/04/12 | | Date: | Comments |
| Created By: SCL | \mathbb{R} -D | 07/22/22 | Modified Sheet Title |
| Last Modification Date: 07/22/22 | | | |
| Last Modified By: EButta | | | |
| CAD Ver · MicroStation V8 Scale Not to Scale Units · English | | | |

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DESIGN DATA

2829 W. Howard Pl. Denver, CD 80204 Phone: 303-512-5102 FAX: 303-757-9219

EB

Traffic & Safety Engineering

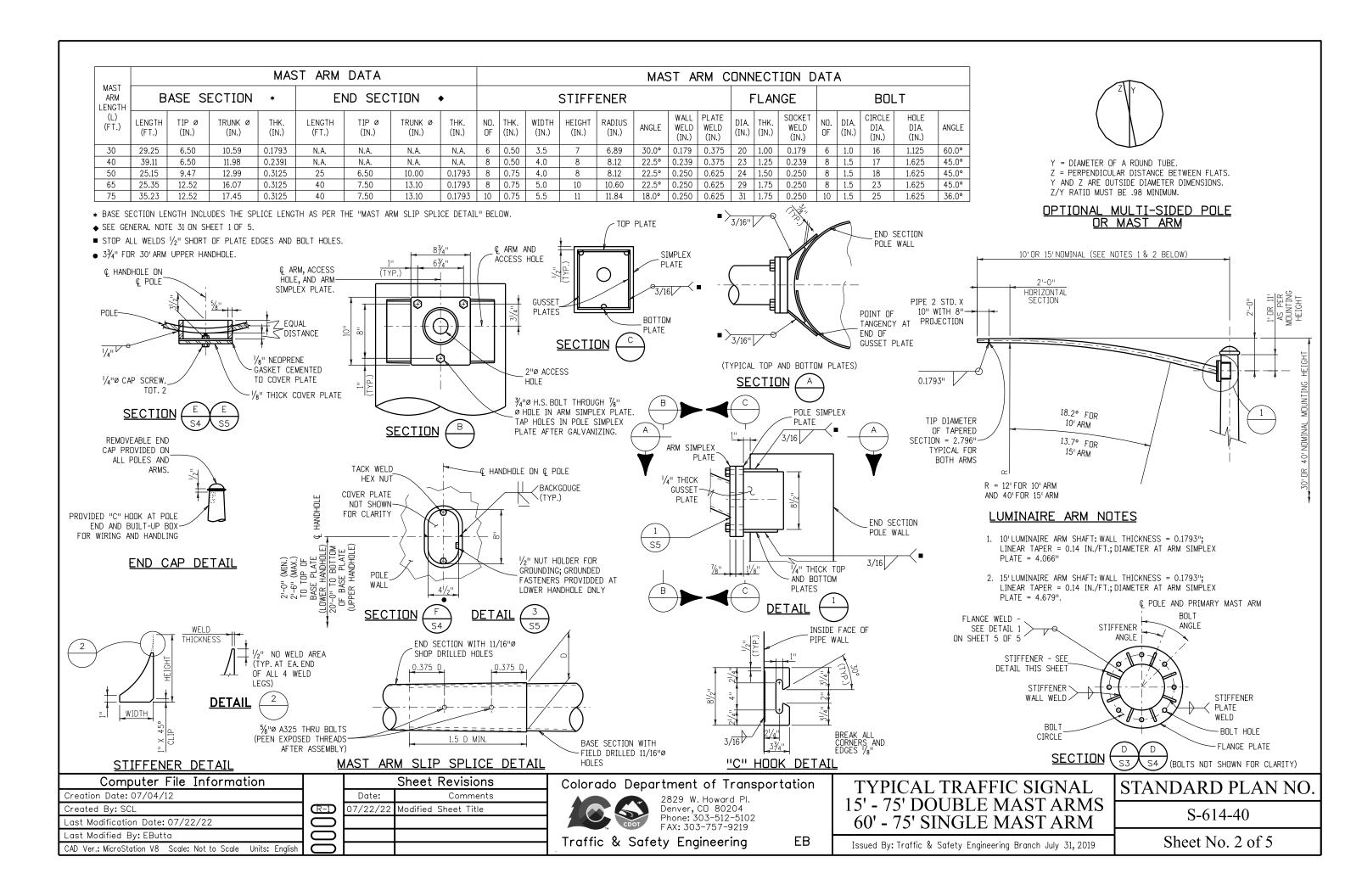
TYPICAL TRAFFIC SIGNAL 15' - 75' DOUBLE MAST ARMS 60' - 75' SINGLE MAST ARM

Issued By: Traffic & Safety Engineering Branch July 31, 2019

STANDARD PLAN NO

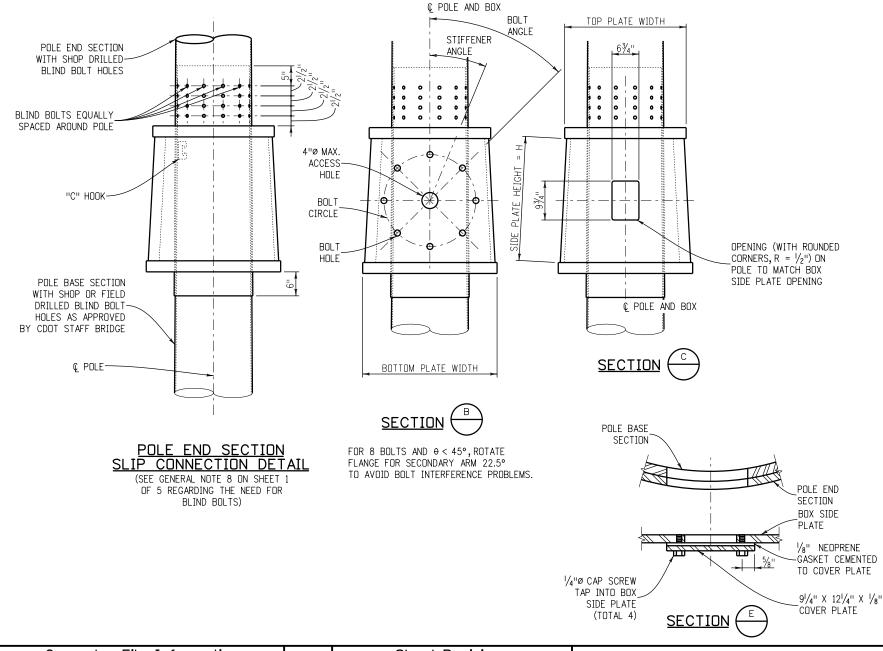
S-614-40

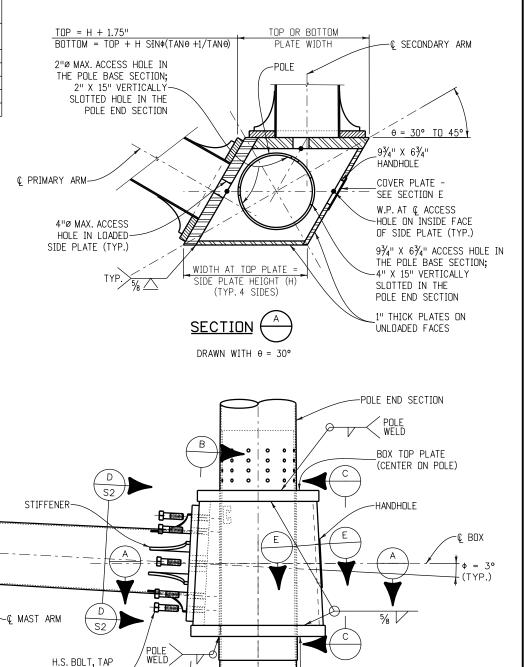
Sheet No. 1 of 5



| | В | LIND |) BOI | _D | | | BUILT-UP BO | POLE DATA | | | | | | | | | | |
|---------------|------|---------------|------------|------------|-----------------|--------|-------------|------------------|------------------|-----------------|----------------|----------|---------------|-----------------|-------|----------------|---------------|--|
| MAST | DATA | | | DATA | | POLE | SIDE PLATE | TOP PLATE | BOTTOM PLATE | | BASE S | SECTION | | END SECTION ◆ | | | | |
| ARM LENGTH | NO | DIA | BOLTS | S NO. | OF BOX PLATES | WELD | Н | WIDTH FOR | WIDTH FOR | _ : := | | | | WITH LUMINAIRE | | | | |
| (FT.) | OF | DIA. (IN.) | PER ROW | OF ROWS | U.D.N. (IN.) | (IN.) | (IN.) | θ = 45° (IN.) | θ = 45° (IN.) | LENGTH (FT.) | TOP Ø (IN.) | BOTTOM Ø | THK. (IN.) | LENGTH (FT.) | TOP Ø | BOTTOM Ø (IN.) | THK. (IN.) | |
| | | | IXOW | NUWS | ,- , | | | | | <u> </u> | | (=:, | , , | <u> </u> | (, | , , | | |
| 30 | 24 | 0.75 | 6 | 4 | 1.50 | 0.1875 | 22 | 23.75 | 26.053 | 22.29 | 9.11 | 12.23 | 0.3125 | 20.54 | 7.25 | 10.13 | 0.2391 | |
| 40 | 30 | 0.75 | 6 | 5 | 2.00 | 0.1875 | 25 | 26.75 | 29.367 | 22.67 | 11.81 | 14.98 | 0.3125 | 20.71 | 10.00 | 12.90 | 0.2391 | |
| 50 | 36 | 0.75 | 12 | 3 | 2.50 | 0.1875 | 26 | 27.75 | 30.471 | 22.33 | 14.86 | 17.98 | 0.3125 | 20.79 | 13.00 | 15.91 | 0.2391 | |
| 65 | 48 | 0.75 | 12 | 4 | 2.75 | 0.1875 | 31 | 32.75 | 35.995 | 22.77 | 18.54 | 21.73 | 0.3125 | 21.02 | 16.75 | 19.69 | 0.2391 | |
| 75 | 60 | 0.75 | 12 | 5 | 3.00 | 0.1875 | 33 | 34.75 | 38.204 | 23.08 | 20.75 | 23.98 | 0.3125 | 21.12 | 19.00 | 21.96 | 0.2391 | |

- * USE LARGER ARM IN A DOUBLE ARM SIGNAL TO DETERMINE PLATE THICKNESS AND DIMENSIONS.
- ◆ SEE GENERAL NOTE 31 ON SHEET 1 OF 5





| Computer File Information | |
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| Creation Date: 07/04/12 | |
| Created By: SCL | \Box (|
| Last Modification Date: 07/22/22 | \Box |
| Last Modified By: EButta | ╗╺ |
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EΒ

Traffic & Safety Engineering

TYPICAL TRAFFIC SIGNAL 15' - 75' DOUBLE MAST ARMS 60' - 75' SINGLE MAST ARM

Issued By: Traffic & Safety Engineering Branch July 31, 2019

THREADS IN BOX

AFTER GALVANIZING.

FLANGE PLATE

STANDARD PLAN NO

BOX BOTTOM PLATE

-POLE BASE SECTION

—Ç POLE AND BOX

MAST ARM CONNECTION DETAIL

(CENTER ON POLE)

S-614-40

Sheet No. 3 of 5

| MAST | FACEPLATE DATA | | | | | | STOP BAR DATA | SIDE PLA | TE DATA | WASHER DATA | | | U-BOLT DATA ● | | | | | |
|---------------|---------------------------|------------------------------|---------------------------|----------------------------|-------------------------|-------------------------|------------------|----------------------------|---------------------------|----------------------------|---------------------------|------------------------------|------------------------------|----------------------------|------------------------------|---------------------------|---------------------------|--------------------------|
| ARM LENGTH | F ACE TOP | EPLATE HEIGHTS BOTTOM | TOTAL | THICKNESS OF FACEPLATE | WIDTH OF ENDS | FACEPLATE CENTER | RADIUS | EDGE DISTANCE | BAR LENGTH | THICKNESS OF SIDE PLATE | EAR HEIGHT | LENGTH OF WASHER | WIDTH OF WASHER | BOLT SPACING | DIAMETER OF U-BOLT | BEND RADIUS U-BOLT (A) | BEND RADIUS U-BOLT (B) | DIAMETER OF OVERSIZED |
| (FT.) | (H _{TOP}) (IN.) | (H _{BOTTOM}) (IN.) | (H _{FACE})(IN.) | (T _{FACE}) (IN.) | (W _E) (IN.) | (W _c) (IN.) | (IN.) | (S _{EDGE}) (IN.) | (L _{BAR}) (IN.) | (T _{SP}) (IN.) | (H _{EAR}) (IN.) | (L _{WASHER}) (IN.) | (W _{WASHER}) (IN.) | (S _{BOLT}) (IN.) | (D _{U-BOLT}) (IN.) | (IN.) | (IN.) | HOLE (IN.) |
| 75 | 24.91 26.59 | 20.91 22.59 | 45.81 49.19 | 2.375 2.500 | 25.67 28.07 | 29.00 31.00 | 158.58 207.07 | 2.563 2.563 | 28.000 31.000 | 1.125 1.125 | 1.500 1.625 | 8.500 8.500 | 3.50 3.50 | 5.000 5.000 | 1.375 1.500 | 10.05 11.23 | 10.26 11.46 | 1.688 1.813 |

Wwasher/2

Wwasher/2

SBOLT

Wwasher/2

| | MAST | | POLE DATA | | | | | | | | | | | |
|---|--------|--------|------------|----------|--------|--------|-------------|--------------|--------|--------------------------|--|--|--|--|
| - | ARM | | BASE SECTI | ON ★ | | END S | ECTION WITH | THICKNESS OF | | | | | | |
| - | LENGTH | LENGTH | TOP Ø | BOTTOM Ø | THK. | LENGTH | TOP Ø | BOTTOM Ø | THK | SADDLE PLATES | | | | |
| L | (FT.) | (FT.) | (IN.) | (IN.) | (IN.) | (FT.) | (IN.) | (IN.) | (IN.) | (T _{SA}) (IN.) | | | | |
| | 65 | 26.30 | 18.05 | 21.73 | 0.3125 | 14.99 | 16.75 | 18.85 | 0.2391 | 1.500 | | | | |
| [| 75 | 26.74 | 20.24 | 23.98 | 0.3125 | 14.83 | 19.00 | 21.07 | 0.2391 | 1.625 | | | | |

● BEND RADIUS MEASURED TO THE © OF EACH U-BOLT. INCREASE RADII AS NEEDED TO ACCOMMODATE OUT-OF-ROUNDNESS, GALVANIZING THICKNESS AND SEAM WELD PROFILES. U-BOLTS SHALL BE TIGHTENED ½ TURN (30°±5°) PAST SNUG TIGHT; PEEN THREADS AFTER TIGHTENING. U-BOLTS AND FACEPLATE SHALL BE MOUNTED ON BASE SECTION PRIOR TO SHIPMENT.

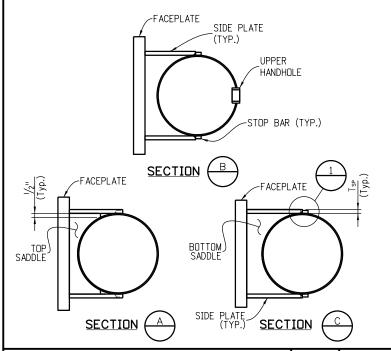
+ MATCH FIT STOP BAR TO SIDE PLATE USING TACK WELDS TO ENSURE UNIFORM BEARING.

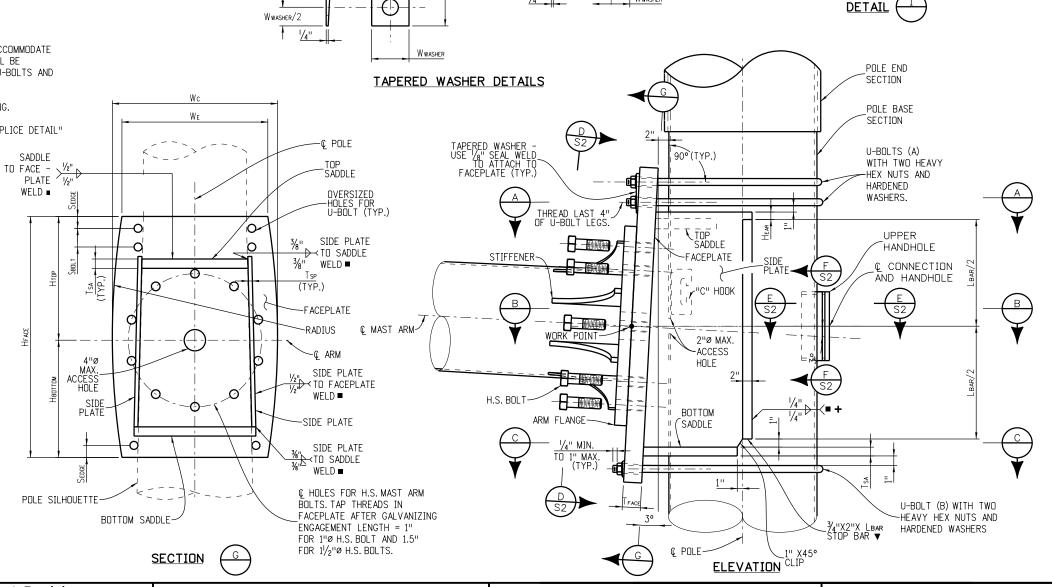
★ BASE SECTION LENGTHS INCLUDE THE SPLICE LENGTH AS PER THE "MAST ARM SLIP SPLICE DETAIL" ON SHEET 2 OF 5.

◆ SEE GENERAL NOTE 31 ON SHEET 1 OF 5.

 \blacksquare END ALL WELDS $rac{1}{2}$ IN. SHORT OF BOLT HOLE AND PLATE EDGES.

▼ BEND STOP BAR TO MATCH POLE CURVATURE.





Wwasher/2

1/4"

Wwasher/2

Www.sher

| ı | Computer File Information | |
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| ı | Creation Date: 07/04/12 | |
| | Created By: SCL | |
| ı | Last Modification Date: 07/22/22 | |
| ı | Last Modified By: EButta | |
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Traffic & Safety Engineering EB

TYPICAL TRAFFIC SIGNAL 15' - 75' DOUBLE MAST ARMS 60' - 75' SINGLE MAST ARM

STANDARD PLAN NO. S-614-40

-CHAMFER

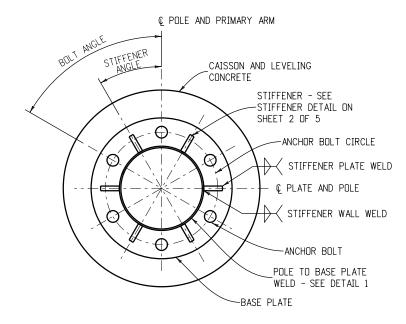
CHAMFER SIDE -PLATE 3%" X 45°

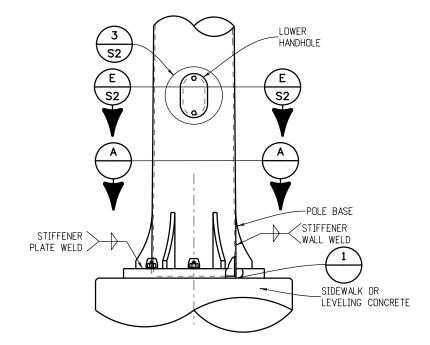
TO CLEAR WELD

Issued By: Traffic & Safety Engineering Branch July 31, 2019

Sheet No. 4 of 5

| | | POLE BASE CONNECTION DATA | | | | | | | | | | | | | | CAISSON DATA | | | | | | |
|--------------------------------|-----------|---------------------------|----------------|-----------------|-----------------|-------|-----------------------|------------------------|---------------|---------------|-----------|---------------|-----------------|-------------------------|-----------------------|--------------|------------------|--|-----------------------|----------------------------|-----|--------------|
| MAST ARM LENGTH (FT.) | | | | STIFF | ENER | | | | BASE | PLATE | | | А | NCHO | R BOL | Τ. | | (FOR SINGLE AND DOUBLE ARM INSTALLATIONS) | | | | |
| LENGTH (FT.) | NO. OF | THK. (IN.) | WIDTH (IN.) | HEIGHT (IN.) | RADIUS (IN.) | ANGLE | WALL WELD (IN.) | PLATE WELD (IN.) | DIA. (IN.) | THK. (IN.) | NO. OF | DIA. (IN.) | LENGTH (IN.) | CIRCLE DIA. (IN.) | HOLE DIA. (IN.) | ANGLE | PROJECTION (IN.) | DIA. (IN.) | DEPTH (D) (FT.) | PAY LENGTH (L) (FT.) | V B | ARS TOTAL |
| 30 | 6 | 0.75 | 5.0 | 10 | 10.600 | 30.0° | 0.25 | 0.625 | 24 | 2.25 | 6 | 2.0 | 63 | 17.75 | 2.25 | 60.0° | 11.25 | 36 | 12.5 | 13 | #9 | 11 |
| 40 | 6 | 0.75 | 5.5 | 11 | 11.841 | 30.0° | 0.25 | 0.625 | 27 | 2.50 | 6 | 2.0 | 63 | 21.00 | 2.25 | 60.0° | 11.50 | 36 | 14.5 | 15 | #9 | 11 |
| 50 | 6 | 0.75 | 6.5 | 13 | 14.327 | 30.0° | 0.25 | 0.625 | 32 | 2.75 | 6 | 2.0 | 63 | 25.00 | 2.25 | 60.0° | 11.75 | 42 | 16.5 | 17 | #9 | 14 |
| 65 | 6 | 0.75 | 8.0 | 16 | 18.063 | 30.0° | 0.25 | 0.625 | 39 | 3.00 | 6 | 2.5 | 63 | 30.25 | 2.75 | 60.0° | 12.50 | 48 | 20.5 | 21 | #9 | 18 |
| 75 | 6 | 0.75 | 8.5 | 17 | 19.309 | 30.0° | 0.25 | 0.625 | 42 | 3.25 | 6 | 2.5 | 63 | 33.00 | 2.75 | 60.0° | 12.75 | 54 | 20.5 | 21 | #9 | 23 |

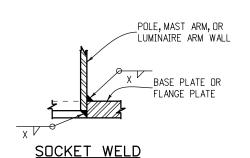


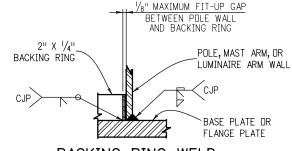


BASE PLATE DETAIL

ANCHOR BOLT - SEE -GENERAL NOTES 21 AND 22 ON SHEET 1 OF 5 LEVELING NUT SIDEWALK OR LEVELING CONCRETE - SEE GENERAL NOTE 15 ON FINISHED GROUND LINE PULL BOX-ONE 2"Ø RIGID CONDUIT FOR LUMINAIRE AND TWO 3"Ø RIGID CONDUITS FOR SIGNAL ITEMS. (2'-0" MIN. DEPTH, 2'-6" MIN. DEPTH UNDER ROADWAY) V BARS SPACED-DIA. EQUALLY #4 SPIRAL

SECTION





BACKING RING WELD

EΒ

TIP OF LOADED MAST ARM MUST BE ABOVE BASE OF MAST ARM IN FINAL **B**≤ 1:40 Max DEFLECTED POSITION. ADJUST & DURING CONSTRUCTION TO ACHIEVE THIS. CONSTRUCTION REQUIREMENTS

X = 3/16" FOR LUMINAIRE ARMS AND 1/4" FOR POLES. SEE TABLE ON SHEET 2 OF 5 FOR MAST ARMS.

| DETAII | 1 | |
|--------|---|--------------------|
| DETAIL | | $\left(S2\right)$ |

| DETAIL | 1 | |
|--------|---|----|
| DETAIL | | S2 |

| Computer File Information | |
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| eation Date: 07/04/12 | |
| eated By: SCL | (|
| st Modification Date: 07/22/22 | (|
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| | Sheet Revisions | |
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| | Date: | Comments |
| O | 07/22/22 | Modified Sheet Title |
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Traffic & Safety Engineering

TYPICAL TRAFFIC SIGNAL 15' - 75' DOUBLE MAST ARMS 60' - 75' SINGLE MAST ARM

STANDARD PLAN NO.

TRAFFIC SIGNAL

POLE CAISSON

DRILLED

CAISSON

SHEET 1 OF 5

PAY LENGTH FOR ITEM 503, DRILLED

S-614-40

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Sheet No. 5 of 5