TROLLEY POLE CONTRACT
PURCHASE REQUIREMENTS

SP–201 DETAIL DRAWINGS

1  STANDARD AND (S) STEEL POLE DETAILS
2  (C) AND (CS) STEEL POLE DETAILS
3  STANDARD STEEL EMBEDDED POLE DETAIL
4  STANDARD STEEL POLE FIXTURE ORIENTATION
5  STANDARD STEEL POLE SCHEDULE & NOTES
6  STANDARD AND (S) STEEL POLE PLATE AND SLEEVE DETAILS
7  (C) AND (CS) STEEL POLE PLATE & SLEEVE DETAILS
8  STANDARD STEEL POLE IDENTIFICATION TAG DETAIL
9  STANDARD STEEL POLE LIGHT MOUNTING DETAIL
10 STANDARD STEEL DAVIT ARM POLE DETAILS
11 STANDARD STEEL POLE RISER OUTLET DETAILS
12 STANDARD STEEL POLE OUTLET DETAILS
13 STANDARD STEEL POLE PEDESTRIAN LIGHT MOUNTING DETAIL—BELLTOWN
14 STANDARD STEEL POLE PEDESTRIAN LIGHT MOUNTING DETAIL—WESTLAKE
15 STANDARD STEEL POLE GENERAL NOTES
16 STANDARD STEEL POLE GENERAL NOTES
17 STANDARD STEEL POLE ANCHOR BASE POLE DETAILS
18 STANDARD STEEL POLE ANCHOR BASE POLE DETAILS
NOTES:

1. CAST POLE TOP CAP HELD IN PLACE W/ (3) 3/8” – 16UNC STAINLESS STEEL SET SCREWS.

2. CAP WILL BE SIZED TO FIT OVER ALADDIN TOP PLATE WHEN REQUIRED

3. STEEL SHALL BE 0.1” MINIMUM THICKNESS.

"C" HOOK FOR WIRING & HANDLING:
0.50" Ø COMMERCIAL GRADE HOT ROLLED BAR

POLE TOP DETAIL
SCALE: 1" = 1'-0"

SEE POLE TOP DETAIL/–

REMOVABLE DOMED POLE CAP
BRACKET ARM LUMINAIRE FLANGE (WHEN REQUIRED)

SIGNAL CABLE OUTLETS (2) WHEN REQUIRED
FEEDER RISER OUTLETS (2) WHEN REQUIRED

SIGNAL ARM FLANGE
DIAMETER TAPER = 0.08" TO 0.15"/FT OF LENGTH Ø ≥ 12"
0.05" MIN Ø < 12"
FESTOON OUTLET BOX (WHEN REQUIRED)

BELLTOWN LIGHT MOUNTING PLATE (1) WHEN REQUIRED
¼” THICK REINFORCING SLEEVE
HANDBOLES
GROUND LINE DIAMETER Ø TOP OF BASE PLATE (EXCLUDING REINFORCING SLEEVE)

EXISTING FACE OF CURB
ROADWAY
BASE PLATE (SEE DETAILS/SHEET 6)

NOTE:
SPECIAL = (S) OVERSIZED POLE ON EXISTING FOUNDATION

STANDARD AND SPECIAL STEEL POLES
SCALE: 3⁄8" = 1'-0"

DESIGNED: DGP/AW APPROVED: P. ENG
DRAWN: L. ANDERSON
CHECKED: J. DAVIS

DATE: 03/2021
STD DET NO: SP-201
SHT NO: 1 OF 18

METRO TRANSIT CAPITAL DIVISION
TROLLEY STANDARD DETAILS
STANDARD & (S) STEEL POLE PURCHASE REQUIREMENTS POLE DETAILS
CHIEF SEATTLE BASE AND CHIEF SEATTLE BASE SPECIAL STEEL POLES

SCALE: 1" = 1'-0"

NOTE:
SPECIAL = (S)
OVERSIZED POLE ON EXISTING FOUNDATION

CHIEF SEATTLE BASE = (C)
CHIEF SEATTLE BASE SPECIAL = (CS)

DESIGNED: DGP/AW
DRAWN: L. ANDERSON
CHECKED: J. DAVIS

APPROVED: P. ENG

METRO TRANSIT CAPITAL DIVISION
TROLLEY STANDARD DETAILS

(C)&(CS) STEEL POLE PURCHASE REQUIREMENTS
POLE DETAILS

DATE: 03/2021
STD DET NO: SP-201
SHT NO: 2 OF 18
EMBEDDED STEEL POLE
SCALE: 1" = 5'-0"

POLE LENGTH (L)
35'-0"

REMOVABLE DOMED POLE CAP
(SHEET 1)

SEE POLE DETAILS & POLE SCHEDULE, SHEET 5

DIAMETER TAPER = 0.10" TO 0.15"/FT OF LENGTH

IDENTIFICATION PLATE

GROUND LINE DIAMETER @ GRADE
(EXCLUDING REINFORCING SLEEVE)

GRADE LINE

0.38" REINFORCING SLEEVE

\( \frac{3}{16} \) - 13 UNC NUT WITH CAP SCREW FOR GROUNDING

\( \frac{3}{16} \)
# POLE SCHEDULE (WITHOUT SLEEVES)

<table>
<thead>
<tr>
<th>POLE TYPE</th>
<th>POLE STYLE</th>
<th>NORMAL LENGTH (L) (FEET)</th>
<th>MAX. GROUND LINE ACROSS FLATS (INCHES)</th>
<th>WORKING LOAD (LB) @ 25° FOR ΔD ONLY</th>
<th>(My) GROUND LINE MOMENT (LB-FT)</th>
<th>POLE FOUNDATION TYPE</th>
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<tbody>
<tr>
<td>SA–201H</td>
<td>EMBEDDED</td>
<td>35</td>
<td>12</td>
<td>2200</td>
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<td>SA–201M</td>
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<td></td>
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<td>6600</td>
<td>330,000</td>
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<td>SA–203–1</td>
<td>ANCHOR BASE</td>
<td>30</td>
<td>8</td>
<td>1600</td>
<td>80,000</td>
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<td>SA–203–2</td>
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<td>2000</td>
<td>100,000</td>
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<td>SA–201V</td>
<td>ANCHOR BASE</td>
<td>28.5</td>
<td>12</td>
<td>2200</td>
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<td>SA–201X</td>
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<td>3600</td>
<td>180,000</td>
<td>SA–213D</td>
</tr>
<tr>
<td>SA–201X(S)</td>
<td></td>
<td></td>
<td>33.5</td>
<td>12½</td>
<td>3600</td>
<td>180,000</td>
</tr>
<tr>
<td>SA–201Y(S)</td>
<td></td>
<td></td>
<td>14</td>
<td>5400</td>
<td>270,000</td>
<td>SA–213D</td>
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<tr>
<td>SA–201Z</td>
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<td></td>
<td>15</td>
<td>6600</td>
<td>330,000</td>
<td>SA–213F</td>
</tr>
<tr>
<td>SA–201ZZ</td>
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<td></td>
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<td>8000</td>
<td>400,000</td>
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<tr>
<td>SA–201ZZZ</td>
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<td></td>
<td>16</td>
<td>12,000</td>
<td>600,000</td>
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<tr>
<td>SA–201V(C)</td>
<td>ANCHOR BASE W/</td>
<td>28.5</td>
<td>11½*</td>
<td>2200</td>
<td>110,000</td>
<td>SA–213B</td>
</tr>
<tr>
<td></td>
<td>SMALL DIAMETER</td>
<td></td>
<td>OR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SA–201Y(C)</td>
<td>SHAFT FOR CHIEF</td>
<td>31.5</td>
<td>11½*</td>
<td>3600</td>
<td>180,000</td>
<td>SA–213D</td>
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<tr>
<td></td>
<td>SEATTLE CASTING</td>
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<td>11½*</td>
<td>5400</td>
<td>270,000</td>
<td>SA–213F</td>
</tr>
<tr>
<td>SA–201X(CS)</td>
<td></td>
<td></td>
<td>11½*</td>
<td>3600</td>
<td>180,000</td>
<td>SA–213B</td>
</tr>
<tr>
<td>SA–201Y(CS)</td>
<td></td>
<td></td>
<td>11½*</td>
<td>5400</td>
<td>270,000</td>
<td>SA–213D</td>
</tr>
<tr>
<td>SA–201Z(C)</td>
<td></td>
<td></td>
<td>11½*</td>
<td>6600</td>
<td>330,000</td>
<td>SA–213F</td>
</tr>
</tbody>
</table>

ΔD = DEFLECTION  
(S) = SPECIAL: OVERSIZED POLE ON EXISTING FOUNDATION  
(C) = CHIEF SEATTLE BASE  
(CS) = CHIEF SEATTLE BASE, SPECIAL; *12½” ø ROUND OK AS ALTERNATIVE.

## POLE SCHEDULE NOTES

1. POLE MANUFACTURER SHALL DESIGN POLE BASED ON THE DATA SHOWN HERE AND IN CONFORMANCE TO THE SPECIFICATIONS.

2. MINIMUM WALL THICKNESS SHALL BE 3 GAGE. WALL SHALL BE SINGLE PLY AND THE SAME MATERIAL FULL LENGTH.

3. MINIMUM GROUND LINE MOMENT AT YIELD SHALL BE (My).

4. NOT USED

5. THE LATERAL DEFLECTION OF THE TOP OF EACH POLE RESULTING FROM THE WORKING LOAD SHALL NOT EXCEED 2.5% OF THE POLE LENGTH FOR POLE DIAMETERS ≥ 12” AND 3% FOR POLE DIAMETERS < 12”

6. STRENGTH CALCULATIONS SHALL BE BASED ON GROUND LINE DIAMETER ONLY AND SHALL NOT INCLUDE THE REINFORCING SLEEVE.
**POLE BASE PLATE DIMENSIONS**

<table>
<thead>
<tr>
<th>POLE TYPE</th>
<th>PLATE WIDTH x LENGTH (A)</th>
<th>PLATE THICKNESS (B)</th>
<th>BOLT CIRCLE (C)</th>
<th>HOLE DIAMETER (D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA-203-1</td>
<td>14 x 14</td>
<td>1½</td>
<td>11½-13½</td>
<td>1¼-1⅜</td>
</tr>
<tr>
<td>SA-203-2</td>
<td>16 x 16</td>
<td>1¾</td>
<td>14½-16½</td>
<td>1⅜-1⅜</td>
</tr>
<tr>
<td>SA-201V</td>
<td>18 x 18</td>
<td>2</td>
<td>18</td>
<td>2⅛</td>
</tr>
<tr>
<td>SA-201X</td>
<td>20 x 20</td>
<td>2</td>
<td>20</td>
<td>2⅜</td>
</tr>
<tr>
<td>SA-201X(S)</td>
<td>20 x 20</td>
<td>2</td>
<td>18</td>
<td>2⅛</td>
</tr>
<tr>
<td>SA-201Y(S)</td>
<td>23 x 23</td>
<td>2¼</td>
<td>20</td>
<td>2⅜</td>
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<tr>
<td>SA-201Z</td>
<td>23 x 23</td>
<td>2½</td>
<td>22</td>
<td>2⅜</td>
</tr>
<tr>
<td>SA-201ZZ</td>
<td>23 x 23</td>
<td>2½</td>
<td>22</td>
<td>2⅜</td>
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<td>25 x 25</td>
<td>3</td>
<td>24</td>
<td>3⅛</td>
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</table>

**(S) = SPECIAL: OVERSIZED POLE ON EXISTING FOUNDATION**

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**SECTION A**

**REINFORCING SLEEVE, BASE PLATE, AND HANDHOLE**

**SCALE: ¾" = 1'-0"**

**ELEVATION B**

**HANDHOLE**

**WITHOUT COVER**

**SCALE: 3" = 1'-0"**

---

**METRO TRANSIT CAPITAL DIVISION**

**TROLLEY STANDARD DETAILS**

**STANDARD &(S) STEEL POLE PURCHASE REQUIREMENTS PLATE & SLEEVE DETAILS**

**DATE:** 03/2021

**STD DET NO:** SP-201

**SHIT NO:** 6 OF 18
## POLE BASE PLATE DIMENSIONS

<table>
<thead>
<tr>
<th>POLE TYPE</th>
<th>PLATE WIDTH x LENGTH (A)</th>
<th>PLATE THICKNESS (B)</th>
<th>BOLT CIRCLE (C)</th>
<th>HOLE DIA (D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA–201V(C)</td>
<td>23 x 23</td>
<td>2</td>
<td>18</td>
<td>2(\sqrt[3]{6})</td>
</tr>
<tr>
<td>SA–201X(C)</td>
<td>23 x 23</td>
<td>2</td>
<td>20</td>
<td>2(\sqrt{6})</td>
</tr>
<tr>
<td>SA–201Y(C)</td>
<td>23 x 23</td>
<td>2(\frac{3}{4})</td>
<td>22</td>
<td>2(\sqrt[3]{6})</td>
</tr>
<tr>
<td>SA–201X(CS)</td>
<td>23 x 23</td>
<td>2</td>
<td>18</td>
<td>2(\sqrt[3]{6})</td>
</tr>
<tr>
<td>SA–201Y(CS)</td>
<td>23 x 23</td>
<td>2(\frac{3}{4})</td>
<td>20</td>
<td>2(\sqrt{6})</td>
</tr>
<tr>
<td>SA–201Z(C)</td>
<td>23 x 23</td>
<td>2(\frac{1}{2})</td>
<td>22</td>
<td>2(\sqrt[3]{6})</td>
</tr>
</tbody>
</table>

(S) = SPECIAL: OVERRSIZED POLE ON EXISTING FOUNDATION  
(C) = CHIEF SEATTLE BASE  
(CS) = CHIEF SEATTLE BASE, SPECIAL

---

### Section A

**REINFORCING SLEEVE, BASE PLATE, AND HANDHOLE**

*SCALE: \(\frac{3}{4}''\) = 1'-0"

---

### Elevation B

**HANDHOLE (WITHOUT COVER)**

*SCALE: 3" = 1'-0"

---

**NOTE:**  
SEE GENERAL NOTES

**BASE PLATE:**  
NOT TO SCALE

---

**DRAW AND TAP FRAME FOR (2)**  
\(\frac{3}{4}'' - 20\) UNC \(\frac{3}{4}''\)  
LONG STAINLESS  
HEX HEAD CAP SCREWS

---

**SECTION A**

**REINFORCING SLEEVE, BASE PLATE, AND HANDHOLE**

*SCALE: \(\frac{3}{4}''\) = 1'-0"

---

**ELEVATION B**

**HANDHOLE (WITHOUT COVER)**

*SCALE: 3" = 1'-0"

---

**DESIGNED:**  
DGP/AW

**APPROVED:**  
P. ENG

**DRAWN:**  
L. ANDERSON

**CHECKED:**  
J. DAVIS

---

**DATE:**  
03/2021

**STD DET NO:**  
SP-201

**SHIT NO:**  
7 OF 18
POLE IDENTIFICATION TAG

DETAIL

POLE TYPE
LENGTH—TAPER
BASE O.D.
WALL THK. ASTM
DESIGNATION & GRADE
MANUFACTURER—YEAR
POLE WEIGHT

ALUMINUM IDENTIFICATION TAG
SECURED TO SHAFT WITH (4)
0.19" RIVETS. TAG STAMPED AS
SHOWN WITH 0.1" HIGH TEXT
BRACKET ARM LUMINAIRE FLANGE

SCALE: 3" = 1'-0"

POLE PLATE TAPPED
0.75" - 10UNC
(3 PLACES)

.25V .25V

0.25" THICK GUSSET

1.00" THICK POLE PLATE

0.31"

5.75" 5.00"

0.75" THICK ARM PLATE

SIDE VIEW A

FRONT VIEW B

DESIGNED: DGP/AW
DRAWN: L. ANDERSON
CHECKED: J. DAVIS

APPROVED: P. ENG

METRO TRANSIT CAPITAL DIVISION
TROLLEY STANDARD DETAILS
STANDARD STEEL POLE PURCHASE REQUIREMENTS
LIGHT MOUNTING DETAIL

DATE: 03/2021
STD DET NO: SP-201
SHT NO: 9 OF 18
DAVIT ARM STEEL POLE

SCALE: 1" = 5'-0"

SEE DETAIL B

3½" O.D. AT END OF POLE SECTION W/ 0.14" PER FT TAPER

POLE EXTENSION

SEE DETAIL A

SEE SHEETS 1-7

ROADWAY

EXISTING CURB FACE

PW 3 PLACES GRIND SMOOTH 3/4

DETAIL A
REDUCING CONE
SCALE: 1" = 1'-0"

DETAIL B
LUMINAIRE TENON
SCALE: NONE

TENON 2¾" ROUND MECHANICAL TUBING

3/16"

03/2021

SP-201

DAVIT ARM POLE DETAILS

METRO TRANSIT CAPITAL DIVISION
TROLLEY STANDARD DETAILS
STANDARD STEEL POLE PURCHASE REQUIREMENTS

DESIGNED: DGP/AW
DRAWN: L. ANDERSON
CHECKED: J. DAVIS

APPROVED: P. ENG

DATE: 03/2021

STD DET NO: SP-201
SHT NO: 10 OF 18
DRILL AND TAP FRAME FOR (2) ¼"-20 UNC X ¾" LONG STAINLESS HEX HEAD CAP SCREWS ASTM-F593 COUPLING NUTS WELDED TO THE FRAME AS ALTERNATE.

½–13 UNC HEAVY HEX GROUNDING NUT W/ SS CAP SCREW (2 REQ'D - 180° APART)

SECTION B
SCALE 3" = 1'-0"

FEEDER OUTLET PLAN
SCALE: 1½" = 1'-0"

¼"-20 UNC X ¾" HEX HEAD STAINLESS STEEL SCREW (3 REQ'D). RIM TO BE DRILLED & TAPPED (TYP)

STEEL CAP

5" LONG 1½" IPS SCH 40 PIPE NIPPLE (GRIND INSIDE EDGES SMOOTH BOTH ENDS)

POLE SHAFT WALL

ELEVATION C
OUTLET WITHOUT COVER
SCALE 3" = 1'-0"

SECTION A-A
FEEDER RISER OUTLET DETAIL
SCALE: 3" = 1'-0"

DESIGNED:
DGP/AW

APPROVED:
P. ENG

METRO TRANSIT CAPITAL DIVISION
TROLLEY STANDARD DETAILS

STANDARD STEEL POLE PURCHASE REQUIREMENTS
RISER OUTLET DETAILS

DATE:
03/2021

STD DET NO:
SP-201

SHT NO:
11 of 18
COVER MOUNTING CLIPS WITH #6 SPEED NUTS

0.5" WALL

ELEVATION VIEW A

FESTOON OUTLET BOX
SCALE: 3" = 1'-0"

SECTION B

2" COUPLING

CABLE OUTLET
SCALE: 3" = 1'-0"

DESIGNED: DGP/AW
DRAWN: L. ANDERSON
CHECKED: J. DAVIS
APPROVED: P. ENG

METRO TRANSIT CAPITAL DIVISION
TROLLEY STANDARD DETAILS
STANDARD STEEL POLE
PURCHASE REQUIREMENTS
OUTLET DETAILS

DATE: 03/2021
STD DET NO: SP-201
SHT NO: 12 OF 18
(2) 0.50"-13UNC TAPPED HOLES IN PLATE W/ 0.50" x 2.00" LONG GALVANIZED BOLTS

1" Ø HOLE THROUGH PLATE, BOTH ENDS DEBURRED

0.50"

2.00"

2.75"

0.50" CHAMFER (TYP)

1.50"

1' - 0.00"

9.00"

4.50"

1.50"

BELTOWN PEDESTRIAN LIGHT MOUNTING PLATE

SCALE: 1/2" = 1'-0"

DESIGNED: DGP/AW

APPROVED: P. ENG

METRO TRANSIT CAPITAL DIVISION
TROLLEY STANDARD DETAILS

STANDARD STEEL POLE PURCHASE REQUIREMENTS
LIGHT MOUNTING DETAIL

DATE: 03/2021

STD DET NO: SP-201

SHT NO: 13 OF 18
(2) 0.50"-13UNC TAPPED HOLES IN PLATE W/ 0.50" x 2.00" LONG GALVANIZED BOLTS

0.06" CHAMFER (TYP - ALL SIDES)

1" Ø HOLE THROUGH PLATE. BOTH ENDS DEBURRED

SIDE VIEW A

FRONT VIEW B

WESTLAKE PEDESTRIAN LIGHT MOUNTING PLATE

SCALE: 1 1/2" = 1'-0"

DESIGNED:
DGP/AW

APPROVED:
P. ENG

METRO TRANSIT CAPITAL DIVISION
TROLLEY STANDARD DETAILS
STANDARD STEEL POLE PURCHASE REQUIREMENTS
LIGHT MOUNTING DETAIL

DATE: 03/2021
STD DET NO: SP-201
SHT NO: 14 OF 18

DREW:
L. ANDERSON

CHECKED:
J. DAVIS

METRO

King County

No. REVISION BY APP'D DATE
GENERAL NOTES

1. MATERIALS

A. POLE SHAFTS, REINFORCING SLEEVES, HANDBOLE FRAMES, FESTOON FRAMES AND FEEDER RISER FRAMES SHALL CONFORM TO ASTM A595 GRADE A OR B, A572 GRADE 50, 60 OR 65 OR OTHER MATERIAL IN ACCORD WITH AWS D1.1 SECTION 10.2. ASTM A588 AND A242 MATERIALS ARE NOT ALLOWED. HANDBOLE FRAMES AND FEEDER RISER FRAMES SHALL BE FABRICATED FROM PLATE WITH THE SAME YIELD STRENGTH MATERIAL AS THE POLE SHAFT. THE POLE SHAFT AND REINFORCING SLEEVE SHALL BE FABRICATED OF THE SAME MATERIAL TYPE AND YIELD STRENGTH.

B. BASE PLATES SHALL CONFORM TO ASTM A572 GRADE 50.

C. POLE CAPS SHALL BE CAST ALUMINUM, GALVANIZED CAST IRON OR GALVANIZED PRESSED STEEL, FITTED WITH THREE STAINLESS STEEL SET SCREWS.

D. FEEDER RISER NIPPLES SHALL BE STANDARD STEEL PIPE CONFORMING TO ASTM A53, GRADE B.

E. GROUNDING NUTS SHALL BE $\frac{1}{2}$ INCH X 13 NC. CAP SCREWS SHALL BE HEX HEAD STAINLESS STEEL OR BRONZE. TAPPED HOLES IN THE HANDBOLE FRAMES MAY BE FURNISHED IN LIEU OF NUTS WELDED TO THE HANDBOLE FRAMES.

F. HANDBOLE COVER AND FEEDER RISER SCREWS SHALL BE STAINLESS STEEL HEX HEAD CAP SCREWS.

G. IMPACT TOUGHNESS TESTS SHALL BE PERFORMED FOR ALL STRUCTURAL STEEL MATERIALS OVER 0.5 INCH THICK OR WITH FY>42 KSI. BASE PLATES, HANDBOLE FRAMES, FEEDER RISER FRAMES, POLE SHAFTS AND POLE SLEEVES SHALL BE TESTED IN ACCORDANCE WITH THE CHARPY V–NOTCH TEST AS SPECIFIED IN ASTM A370. THE MINIMUM ENERGY VALUE SHALL BE 15 FT–LBS AT 0 DEGREES FAHRENHEIT.

H. SILICON CONTENT IN THE STEEL SHALL BE 0.06% MAXIMUM.

2. FABRICATION

A. POLES SHALL BE MINIMUM 8–SIDED WITH 2” MINIMUM BEND RADIUS FOR ALL TYPE C POLES. ALL OTHERS SHALL BE MINIMUM 10–SIDED.

B. ALL WELDS, MATERIAL, PROCEDURES AND OPERATIONS SHALL CONFORM TO THE AWS D1.1; SECTION 2, DESIGN OF WELDED CONNECTIONS; SECTION 3, WORKMANSHIP; SECTION 4, TECHNIQUE; AND SECTIONS 8, 9 OR 10.

C. ALL POLES SHALL BE FABRICATED PER THE CURRENT EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
GENERAL NOTES. CONTINUED

FABRICATION. CONTINUED

COMPLETE PENETRATION WELDS SHALL BE GROUND TO ELIMINATE SURFACE CRACKS, NOTCHES AND OTHER LIKELY STRESS CONCENTRATORS.

CIRCUMFERENTIAL WELDS ON POLE SHAFTS SHALL BE COMPLETE PENETRATION FOR THEIR FULL LENGTH. MAXIMUM NUMBER OF LONGITUDINAL WELDS ON POLE SHAFTS SHALL BE TWO.

REINFORCING SLEEVE WELDED JOINTS SHALL BE WATERTIGHT.

C. HOT–DIP GALVANIZING SHALL BE PERFORMED AFTER FABRICATION. THE POLES, FITTINGS AND ACCESSORIES SHALL BE GALVANIZED INSIDE AND OUT, IN CONFORMANCE WITH ASTM A123 OR ASTM A153 WITH PRECAUTIONS AGAINST EMBRITTLEMENT IN ACCORDANCE WITH ASTM A143. ALL POLE FABRICATIONS SHALL BE GALVANIZED FOR THEIR ENTIRE LENGTH, AT ONE TIME IN A SINGLE HOT–DIP GALVANIZING BATH. GALVANIZING BY SUCCESSIVE DIPPINGS OF PARTIAL POLE LENGTHS WILL NOT BE PERMITTED.

BEFORE GALVANIZING, POLE SHAFT LONGITUDINAL AND CIRCUMFERENTIAL WELDS SHALL BE GROUND FLUSH WITH BASE METAL TO ELIMINATE SURFACE CRACKS. ALL OTHER WELDS AND CUT EDGES SHALL BE GROUND TO ELIMINATE SHARP EDGES AND BURRS.

ZINC REPAIR PAINT SHALL BE IN ACCORDANCE WITH DOD P–21035.

D. A POLE IDENTIFICATION PLATE SHALL BE ATTACHED TO EACH POLE. THE PLATE SHALL SHOW METRO POLE DESIGNATION, POLE LENGTH, WALL THICKNESS, GROUND LINE DIAMETER, TAPER, POLE SHAFT MATERIAL SPECIFICATION AND GRADE, THE MANUFACTURER’S NAME, AND DATE OF MANUFACTURE. THE PLATE DESIGN, STYLE OF LETTERING AND METHOD OF ATTACHMENT SHALL BE REVIEWED BY THE ENGINEER.
ITEM 4 POLE PAINTING EXAMPLE

A. COATING MATERIAL: Epoxy primer, polyurethane finish.

B. SURFACE PREPARATION: Wash with a mild solution of detergent and hot water. Rinse complete and allow to dry, prepare for paint application by providing a SSPC SP-2(Hand Tool Clean).

C. COATING:
   Primer: One coat of Tnemec’s 135 Chembuild, applied at 7–8 mils dry film thickness. Finish: One coat of Tnemec’s Series 74, applied at 4–5 mils dry film thickness.

D. COLOR: As Specified by project requirement.
NOTE: NO HANDLING STRAP WITH SPECIAL TOP PLATE

SEE POLE DETAIL SHEETS

EXISTING CURB (POLE ORIENTATION)
ROADWAY

SPECIAL TOP PLATE DETAIL

ANCHOR BASE STEEL POLE
SPECIAL TOP PLATE DETAIL