TROLLEY POLE CONTRACT
PURCHASE REQUIREMENTS

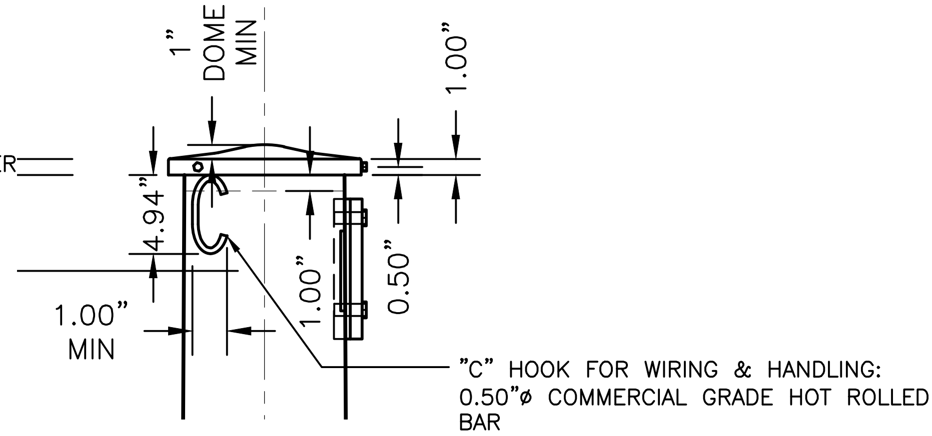
SP–201 DETAIL DRAWINGS

No.	REVISION	BY	APP'D	DATE

DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
DRAWN: L. ANDERSON	King County METRO	SHEET INDEX	STD DET NO: G0-01
CHECKED: J. DAVIS			SHT NO: 1 OF 1

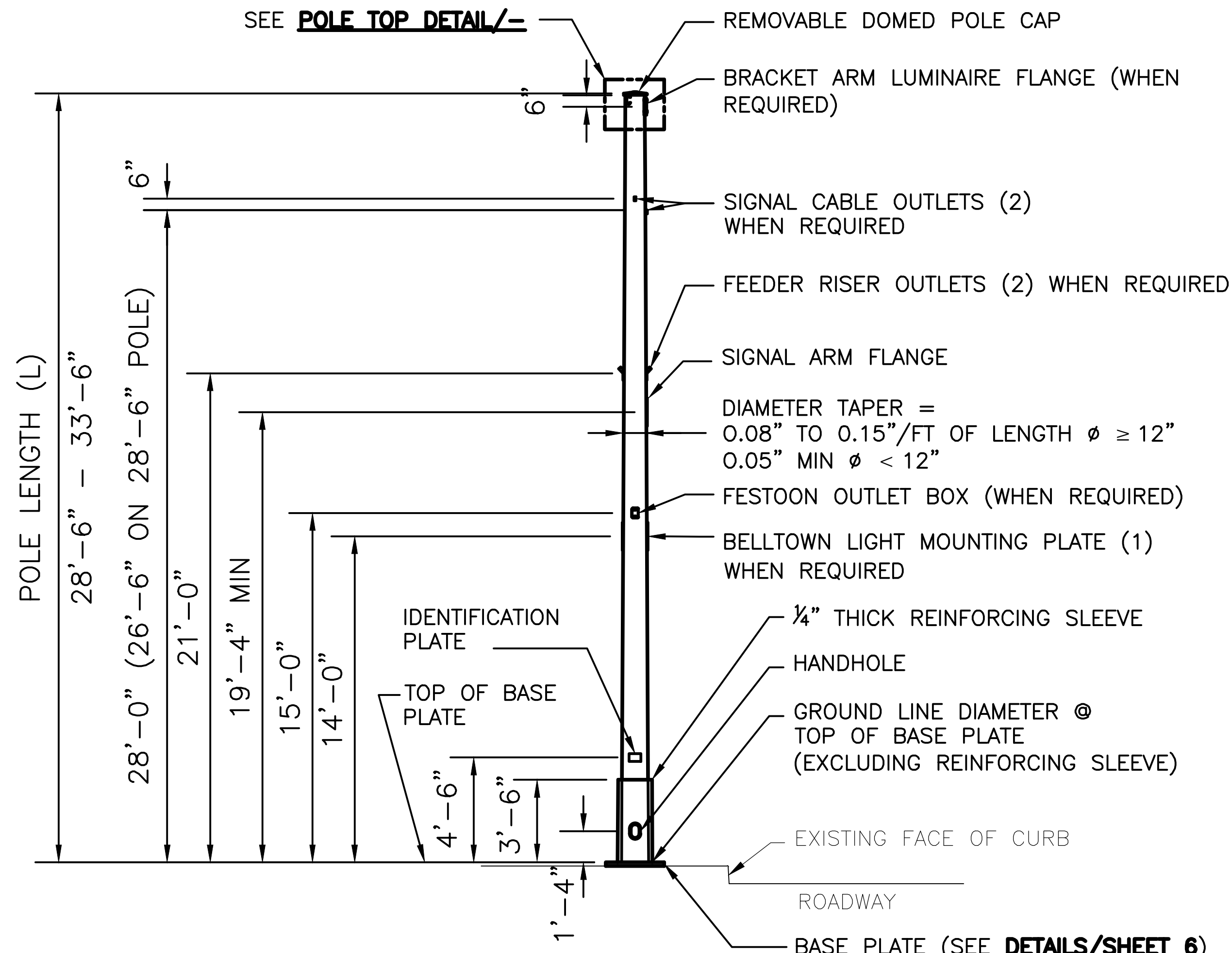
NOTES:

1. CAST POLE TOP CAP HELD IN PLACE W/ (3) ⅜" – 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.



POLE TOP DETAIL

SCALE: 1" = 1'–0"



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

STANDARD AND SPECIAL STEEL POLES

SCALE: ⅛" = 1'–0"

No.	REVISION	BY	APP'D	DATE	DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
					DRAWN: L. ANDERSON	King County METRO	STANDARD &(S) STEEL POLE PURCHASE REQUIREMENTS POLE DETAILS	STD DET NO: SP-201
					CHECKED: J. DAVIS			SHT NO: 1 OF 18

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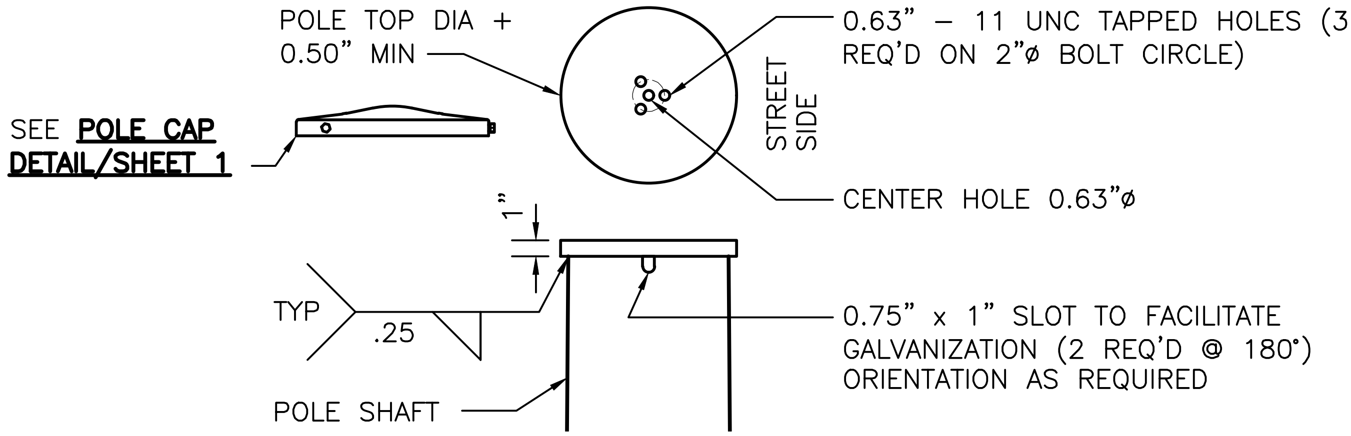
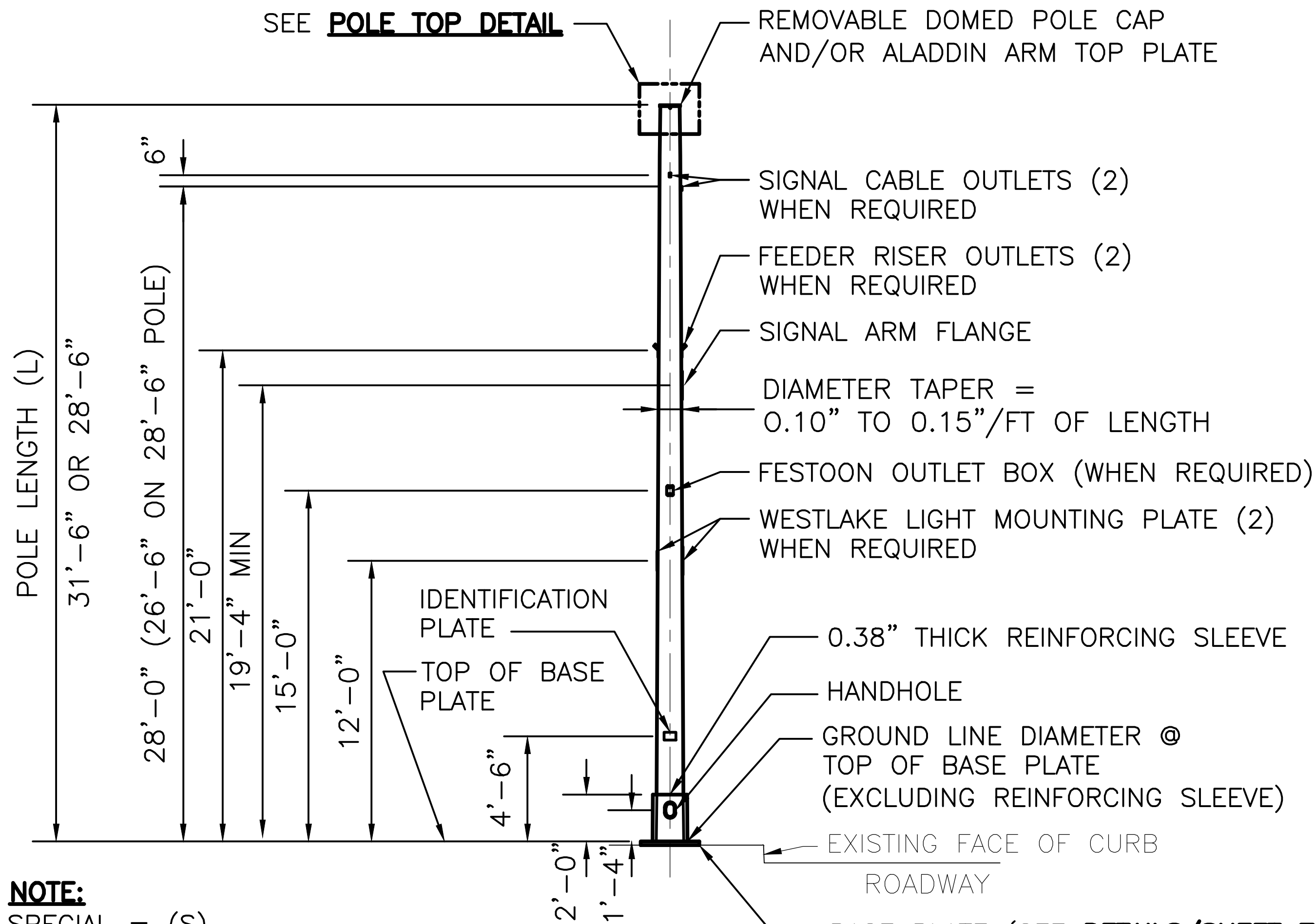


POLE TOP DETAIL

SCALE: 1" = 1'–0"



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

CHIEF SEATTLE BASE = (C)

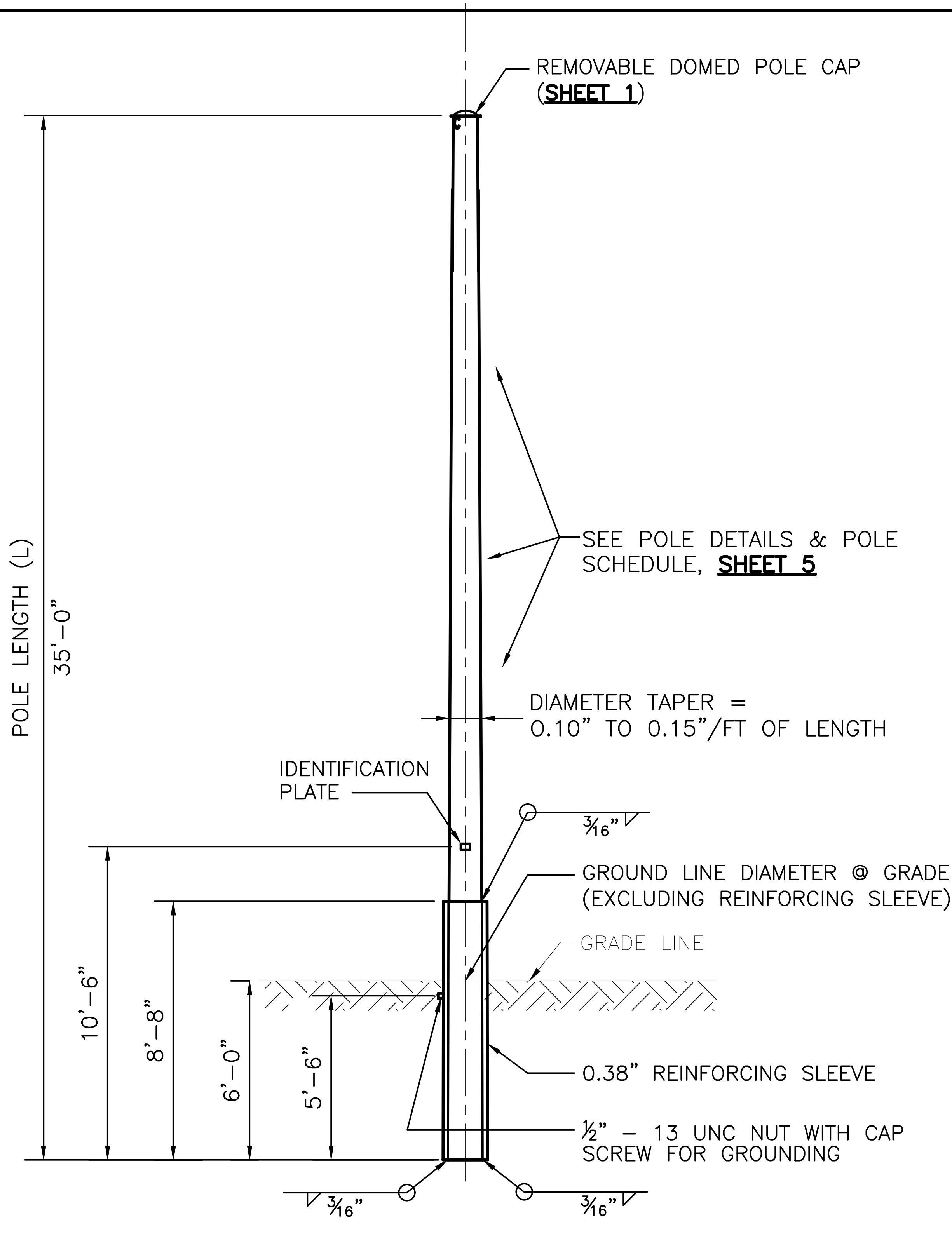
CHIEF SEATTLE BASE SPECIAL = (CS)

CHIEF SEATTLE BASE AND CHIEF SEATTLE BASE SPECIAL STEEL POLES

SCALE: ⅛" = 1'–0"

No.	REVISION	BY	APP'D	DATE

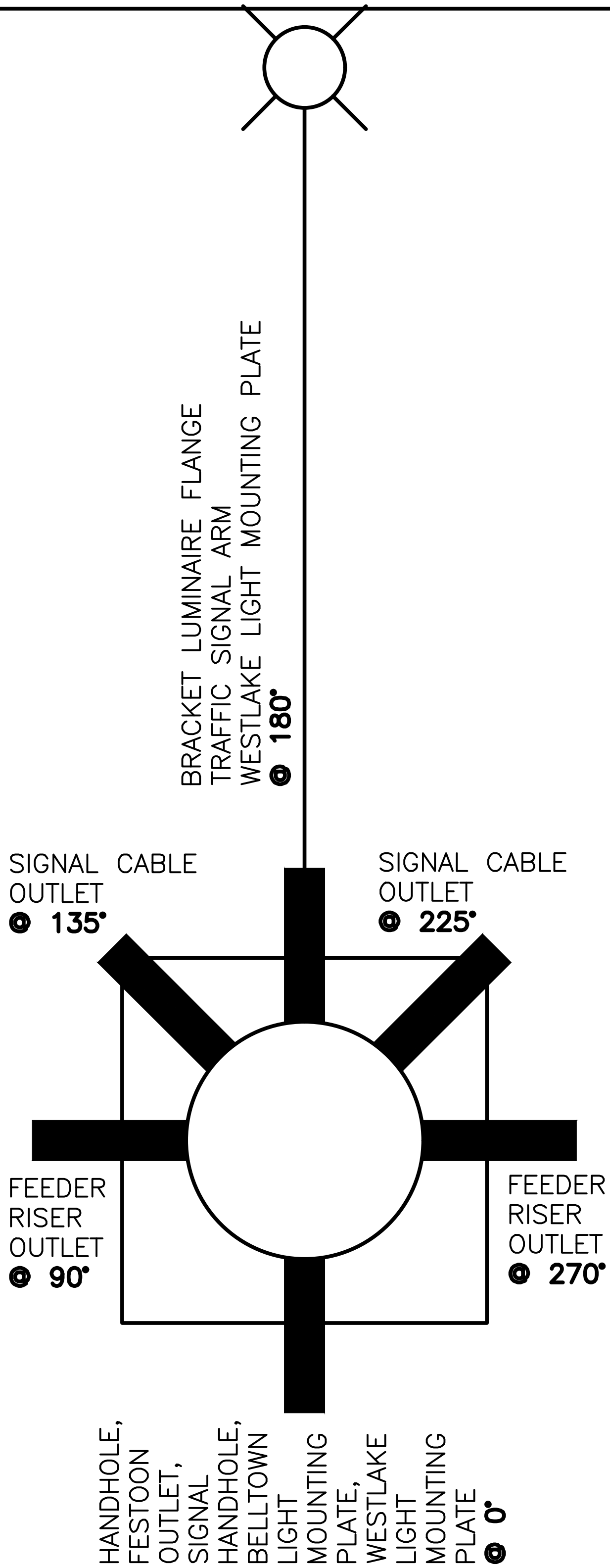
DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
DRAWN: L. ANDERSON	King County METRO	(C)&(CS) STEEL POLE PURCHASE REQUIREMENTS POLE DETAILS	STD DET NO: SP-201
CHECKED: J. DAVIS			SHT NO: 2 OF 18



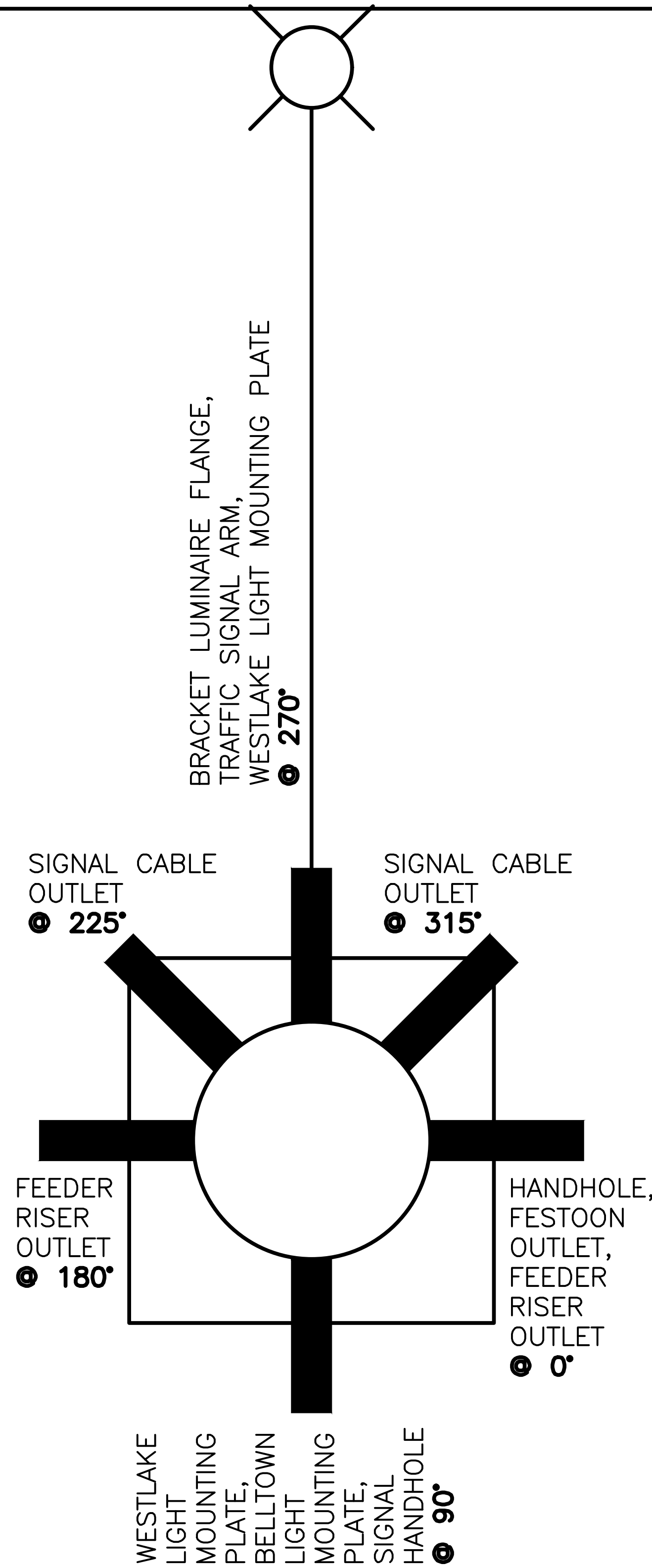
EMBEDDED STEEL POLE

SCALE: 1" = 5'–0"

No.	REVISION	BY	APP'D	DATE	DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
					DRAWN: L. ANDERSON	King County METRO	STANDARD STEEL POLE PURCHASE REQUIREMENTS EMBEDDED POLE DETAIL	STD DET NO: SP-201
					CHECKED: J. DAVIS			SHT NO: 3 OF 18



NON-STANDARD TYPE FIXTURE ORIENTATION



STANDARD TYPE FIXTURE ORIENTATION

No.	REVISION	BY	APP'D	DATE	DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
					DRAWN: L. ANDERSON	King County METRO	STANDARD STEEL POLE PURCHASE REQUIREMENTS FIXTURE ORIENTATION	STD DET NO: SP-201
					CHECKED: J. DAVIS			SHT NO: 4 OF 18

POLE SCHEDULE (WITHOUT SLEEVES)

POLE TYPE	POLE STYLE	NORMAL LENGTH (L) (FEET)	MAX. GROUND LINE ACROSS FLATS (INCHES)	WORKING LOAD (LB) @25' FOR △D ONLY	(My) GROUND LINE MOMENT (LB–FT)	POLE FOUNDATION TYPE
SA–201H SA–201K SA–201M	EMBEDDED	35	12 14 15	2200 3600 6600	110,000 180,000 330,000	SA–212B SA–212D SA–212F
SA–203–1 SA–203–2	ANCHOR BASE	30	8 10	1600 2000	80,000 100,000	SA–213A SA–213A
SA–201V SA–201X SA–201X(S) SA–201Y(S) SA–201Z SA–201ZZ SA–201ZZZ	ANCHOR BASE	28.5 OR 33.5	12 14 12½ 14 15 15 16	2200 3600 3600 5400 6600 8000 12,000	110,000 180,000 180,000 270,000 330,000 400,000 600,000	SA–213B SA–213D SA–213B SA–213D SA–213F SA–213F SA–213H
SA–201V(C) SA–201X(C) SA–201Y(C) SA–201X(CS) SA–201Y(CS) SA–201Z(C)	ANCHOR BASE W/ SMALL DIAMETER SHAFT FOR CHIEF SEATTLE CASTING	28.5 OR 31.5	11¾* 11¾* 11¾* 11¾* 11¾* 11¾*	2200 3600 5400 3600 5400 6600	110,000 180,000 270,000 180,000 270,000 330,000	SA–213B SA–213D SA–213F SA–213B SA–213D SA–213F

△D = DEFLECTION
(S) = SPECIAL: OVERSIZED POLE ON EXISTING FOUNDATION (C) = CHIEF SEATTLE BASE
(CS) = CHIEF SEATTLE BASE, SPECIAL; *12¼"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.

No.	REVISION	BY	APP'D	DATE	DESIGNED: DGP/AW DRAWN: L. ANDERSON CHECKED: J. DAVIS	APPROVED: P. ENG King County METRO	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS STANDARD STEEL POLE PURCHASE REQUIREMENTS POLE SCHEDULE & NOTES	DATE: 03/2021 STD DET NO: SP-201 SHT NO: 5 OF 18

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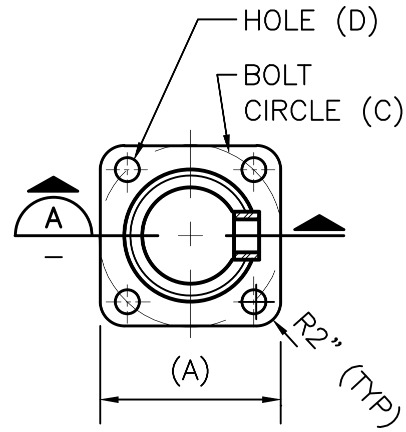
POLE BASE PLATE DIMENSIONS

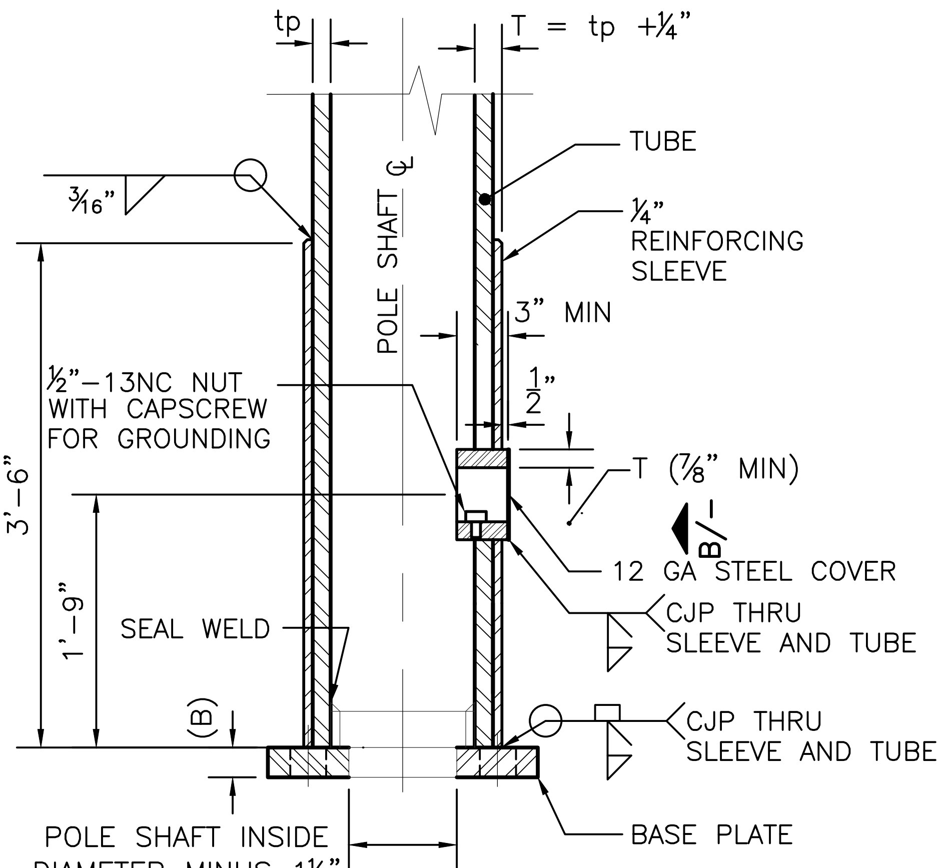
POLE TYPE	PLATE WIDTH x LENGTH (A)	PLATE THICKNESS (B)	BOLT CIRCLE (C)	HOLE DIAMETER (D)
SA–203–1 SA–203–2	14 x 14 16 x 16	1½ 1¾	11½–13½ 14½–16½	1¼–1 13/16 1 11/16–1 13/16
SA–201V	18 x 18	2	18	2 1/16
SA–201X	20 x 20	2	20	2 5/16
SA–201X(S)	20 x 20	2	18	2 1/16
SA–201Y(S)	23 x 23	2¼	20	2 5/16
SA–201Z	23 x 23	2½	22	2 13/16
SA–201ZZ	23 x 23	2½	22	2 13/16
SA–201ZZZ	25 x 25	3	24	3 1/16

(S) = SPECIAL: OVERSIZED POLE ON EXISTING FOUNDATION



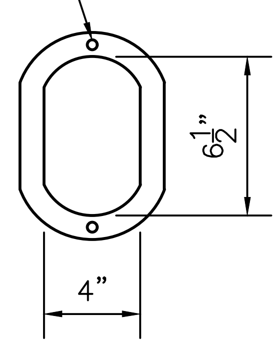
BASE PLATE
NOT TO SCALE

NOTE: SEE GENERAL NOTES



SECTION A
REINFORCING SLEEVE, BASE PLATE, AND HANDHOLE
SCALE: ¾" = 1'–0"

DRILL AND TAP FRAME FOR (2) ¼"– 20 UNC ¾" LONG STAINLESS HEX HEAD CAP SCREWS



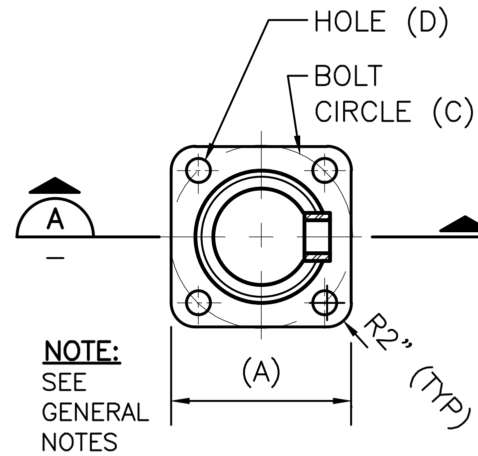
ELEVATION B
HANDHOLE
(WITHOUT COVER)
SCALE: 3" = 1'–0"

No.	REVISION	BY	APP'D	DATE	DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
					DRAWN: L. ANDERSON	King County METRO	STANDARD &(S) STEEL POLE PURCHASE REQUIREMENTS PLATE & SLEEVE DETAILS	STD DET NO: SP-201
					CHECKED: J. DAVIS			SHT NO: 6 OF 18

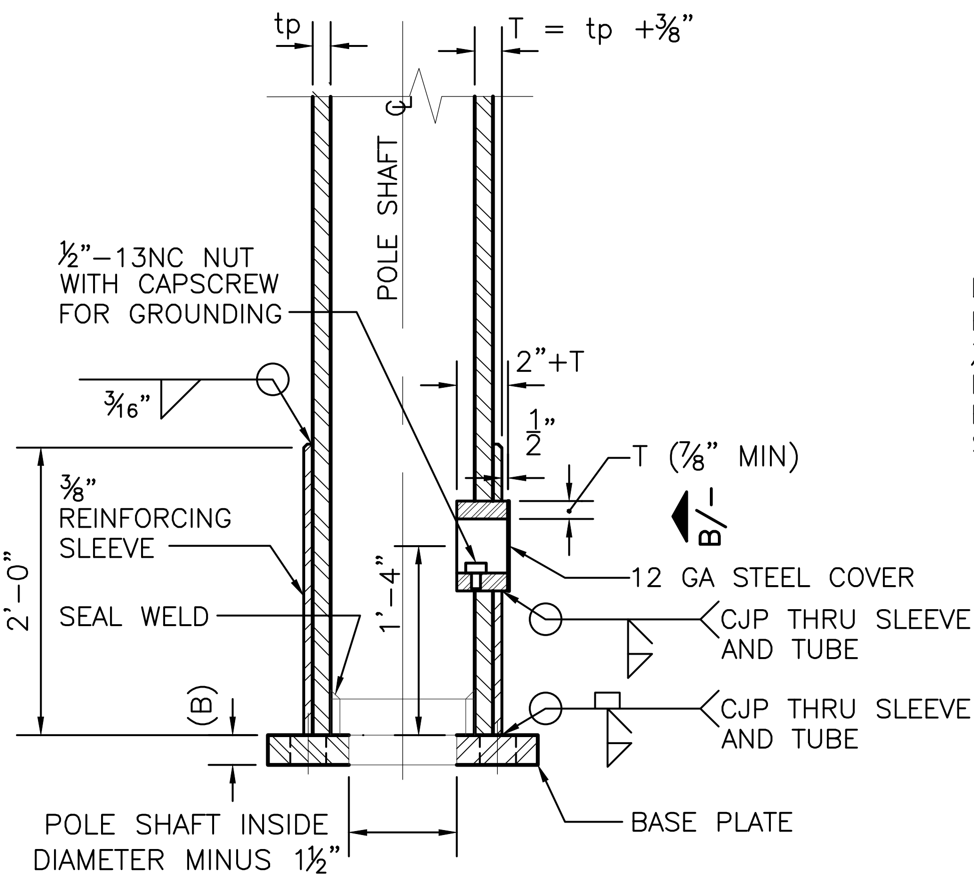
POLE BASE PLATE DIMENSIONS

POLE TYPE	PLATE WIDTH x LENGTH (A)	PLATE THICKNESS (B)	BOLT CIRCLE (C)	HOLE DIA (D)
SA–201V(C)	23 x 23	2	18	2 1/16
SA–201X(C)	23 x 23	2	20	2 5/16
SA–201Y(C)	23 x 23	2 1/4	22	2 13/16
SA–201X(CS)	23 x 23	2	18	2 1/16
SA–201Y(CS)	23 x 23	2 1/4	20	2 5/16
SA–201Z(C)	23 x 23	2 1/2	22	2 13/16

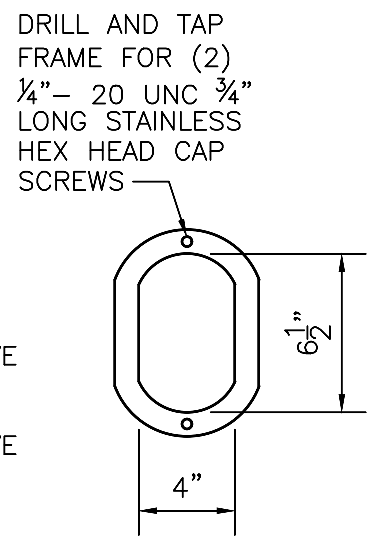
(S) = SPECIAL: OVERSIZED POLE ON EXISTING FOUNDATION
(C) = CHIEF SEATTLE BASE
(CS) = CHIEF SEATTLE BASE, SPECIAL



BASE PLATE
NOT TO SCALE



SECTION A
REINFORCING SLEEVE, BASE PLATE, AND HANDHOLE
SCALE: 3/4" = 1'–0"



ELEVATION B
HANDHOLE
(WITHOUT COVER)
SCALE: 3" = 1'–0"

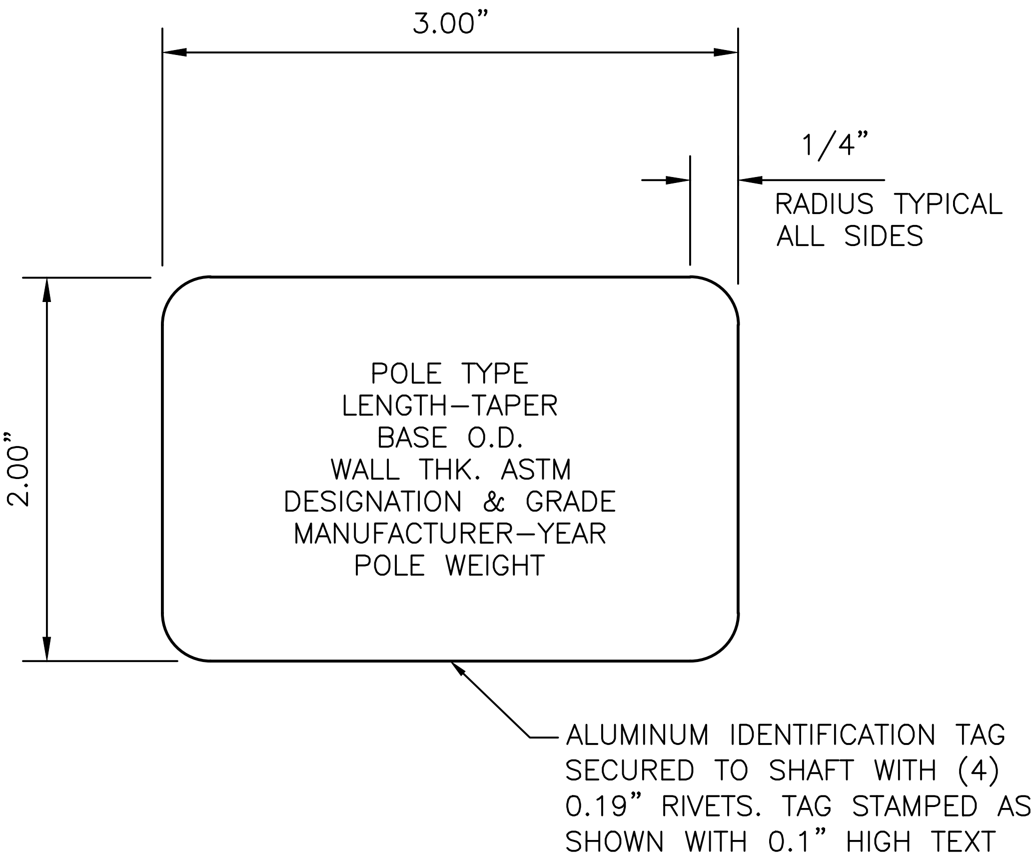
No.	REVISION	BY	APP'D	DATE

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

King County METRO

METRO TRANSIT CAPITAL DIVISION
TROLLEY STANDARD DETAILS
(C) & (CS) STEEL POLE PURCHASE REQUIREMENTS PLATE & SLEEVE DETAILS

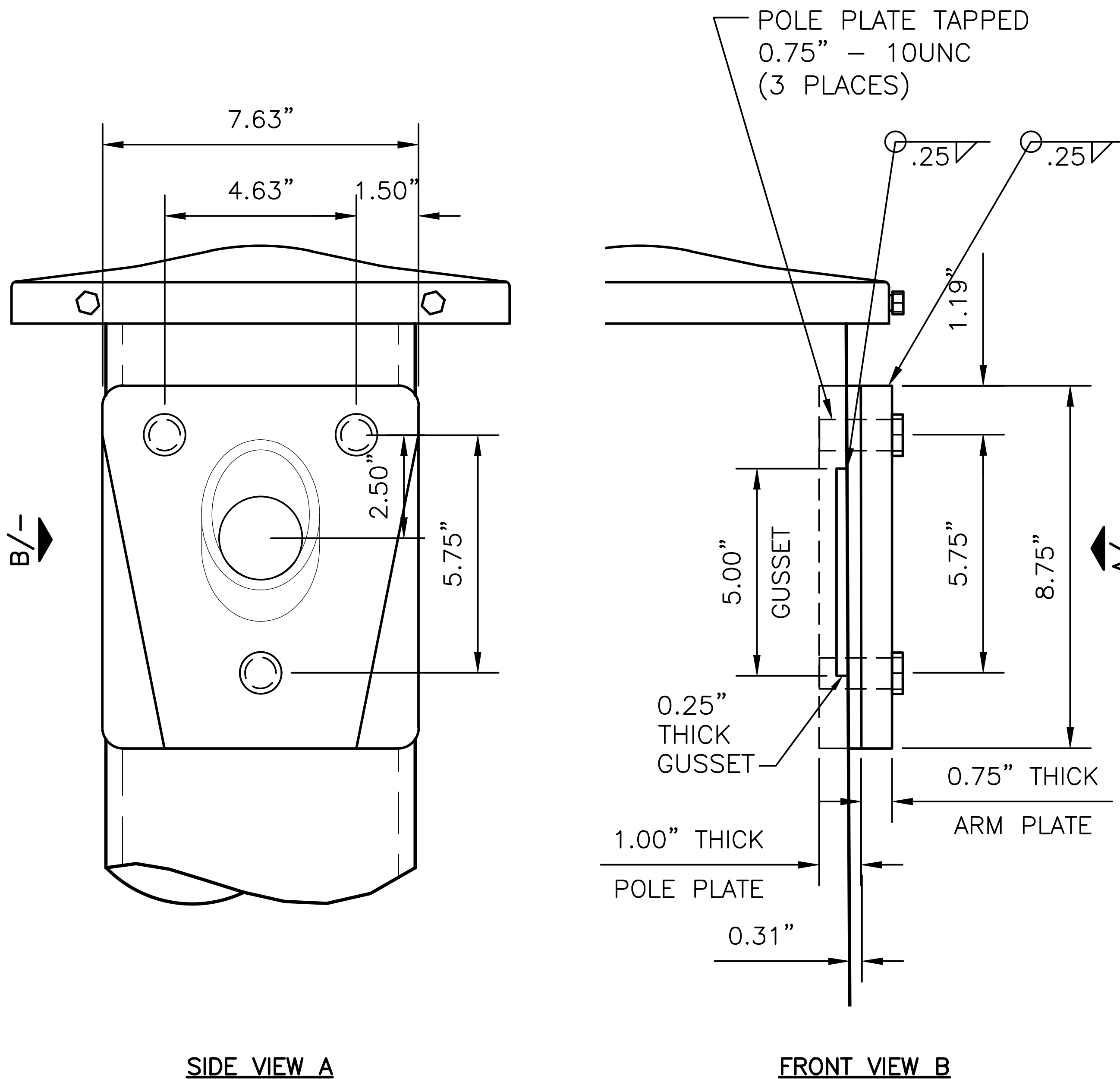
DATE: 03/2021
STD DET NO: SP-201
SHT NO: 7 OF 18



POLE IDENTIFICATION TAG DETAIL

No.	REVISION	BY	APP'D	DATE

DESIGNED:	APPROVED:		DATE:
DGP/AW	P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	03/2021
DRAWN:	King County METRO	STANDARD STEEL POLE PURCHASE REQUIREMENTS POLE IDENTIFICATION TAG	STD DET NO:
L. ANDERSON			SP-201
CHECKED:			SHT NO:
J. DAVIS			8 OF 18



BRACKET ARM LUMINAIRE FLANGE

SCALE: 3"" = 1'–0"

					DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
					DRAWN: L. ANDERSON	King County METRO	STANDARD STEEL POLE PURCHASE REQUIREMENTS LIGHT MOUNTING DETAIL	STD DET NO: SP-201
					CHECKED: J. DAVIS			SHT NO: 9 OF 18
No.	REVISION	BY	APP'D	DATE				

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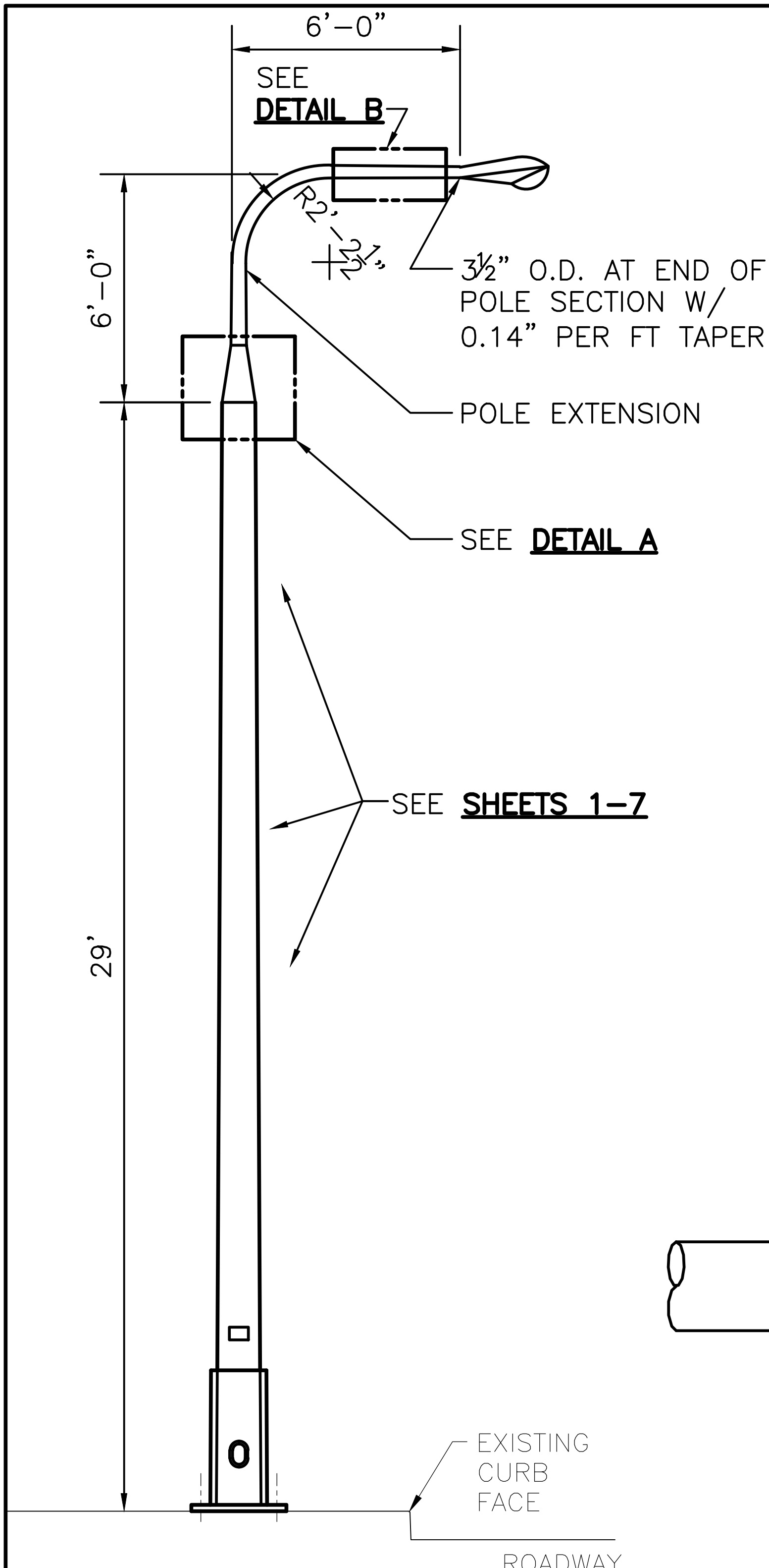
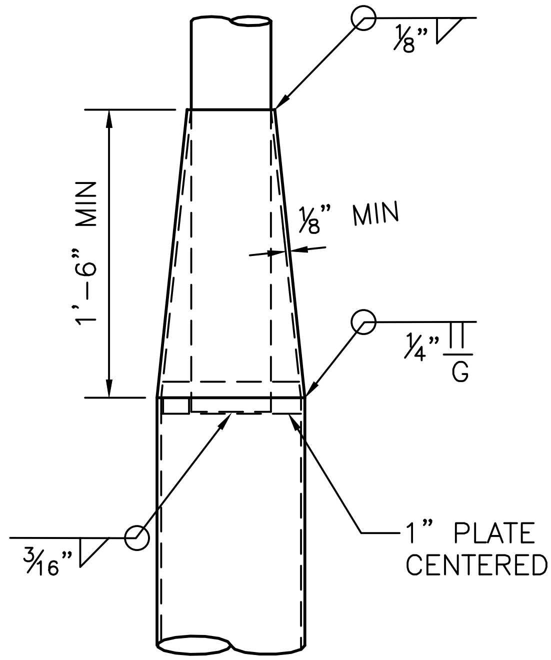
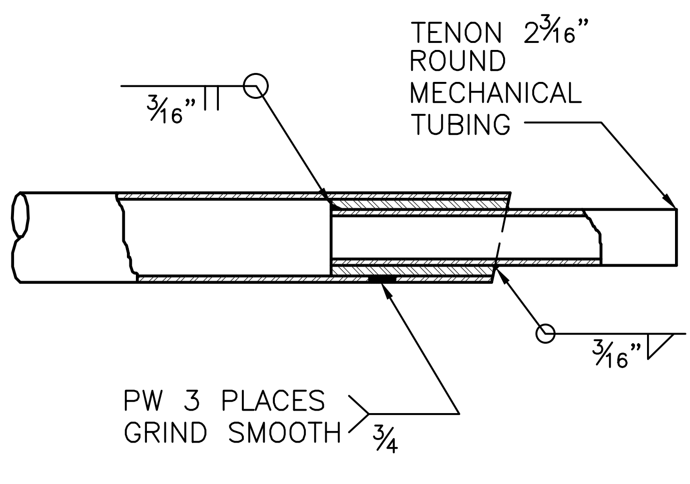


DAVIT ARM STEEL POLE
SCALE: 1" = 5'–0"

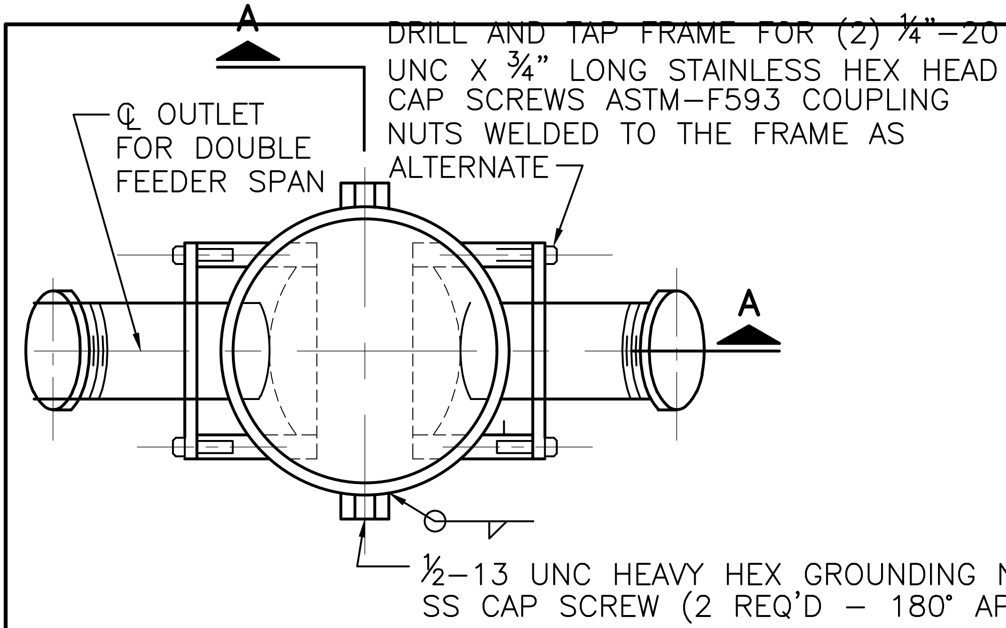


DETAIL A
REDUCING CONE
SCALE: 1" = 1'–0"



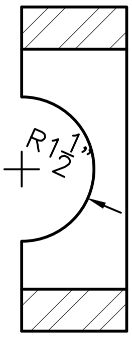
DETAIL B
LUMINAIRE TENON
SCALE: NONE

No.	REVISION	BY	APP'D	DATE	DESIGNED: DGP/AW DRAWN: L. ANDERSON CHECKED: J. DAVIS	APPROVED: P. ENG King County METRO	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS STANDARD STEEL POLE PURCHASE REQUIREMENTS DAVIT ARM POLE DETAILS	DATE: 03/2021 STD DET NO: SP-201 SHT NO: 10 OF 18



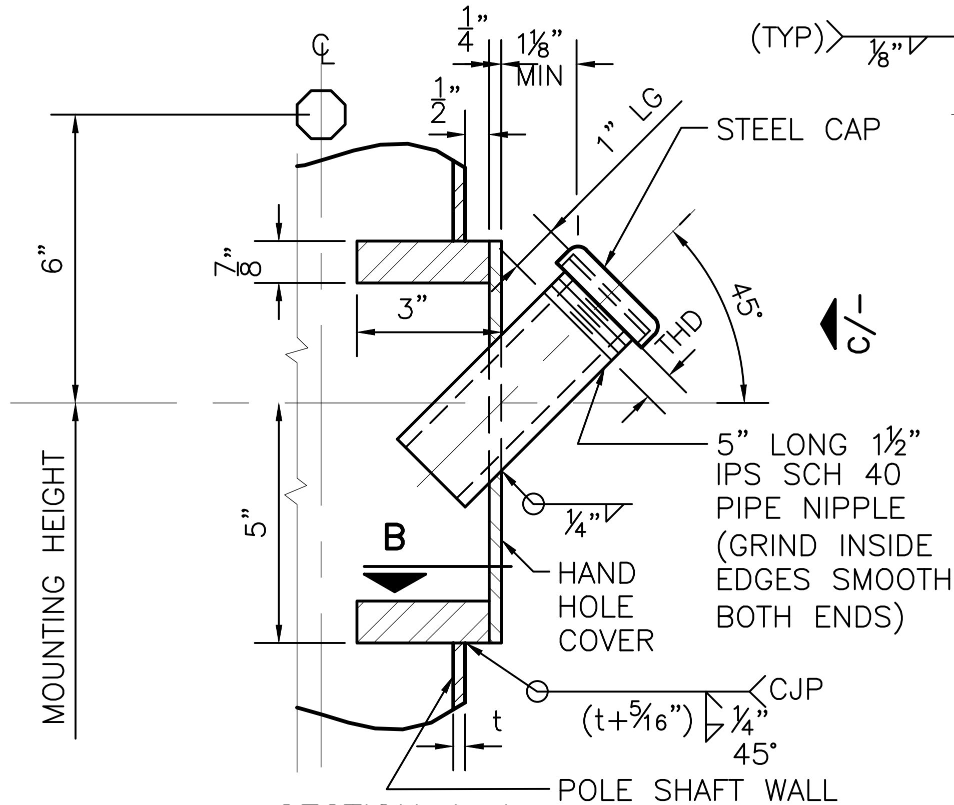
FEEDER OUTLET PLAN

SCALE: 1½" = 1'–0"



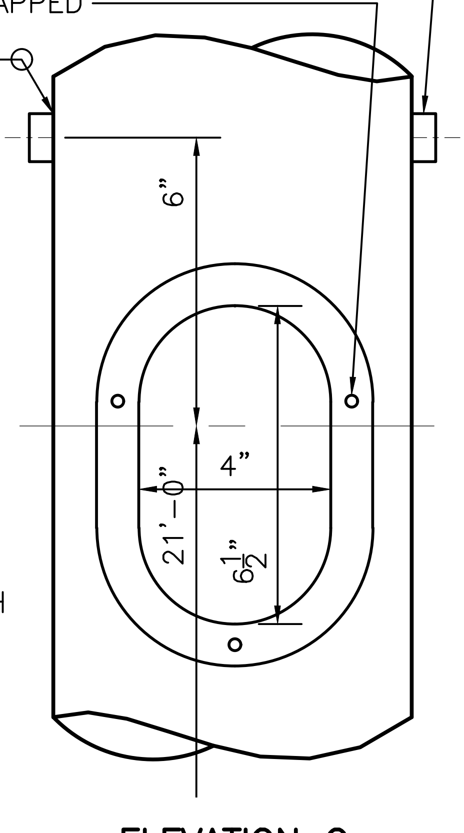
SECTION B

SCALE 3" = 1'–0"



SECTION A–A
FEEDER RISER OUTLET DETAIL

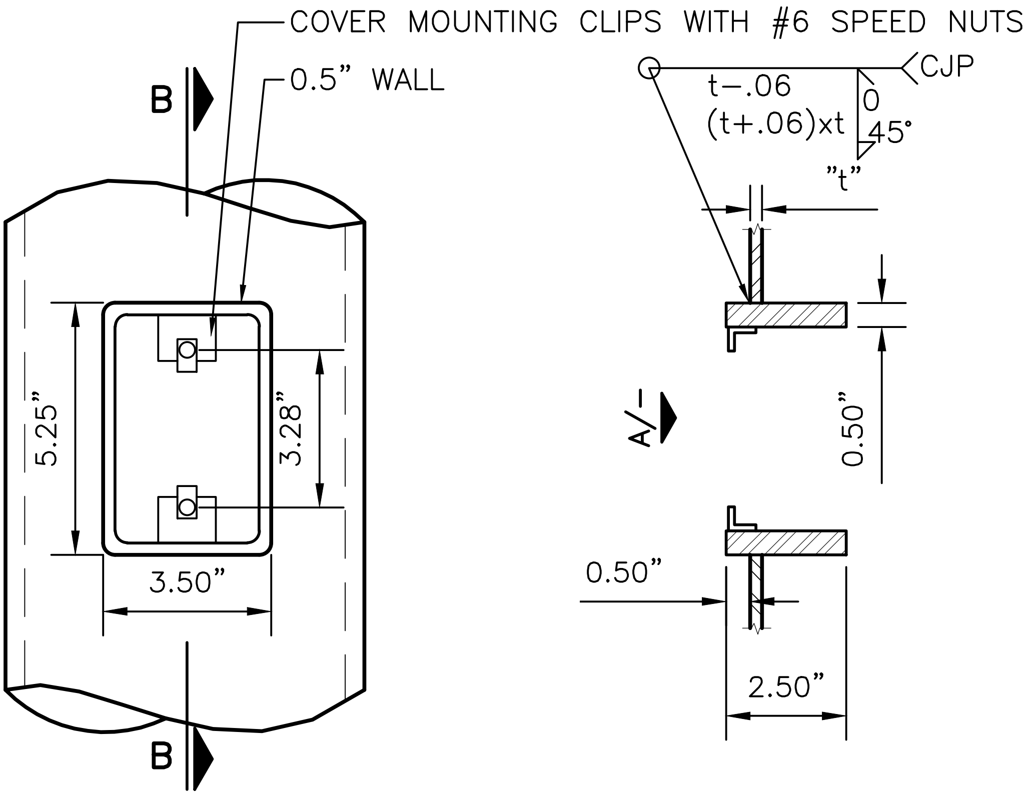
SCALE: 3" = 1'–0"



ELEVATION C
OUTLET WITHOUT COVER

SCALE 3" = 1'–0"

					DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
					DRAWN: L. ANDERSON	King County METRO	STANDARD STEEL POLE PURCHASE REQUIREMENTS RISER OUTLET DETAILS	STD DET NO: SP-201
No.	REVISION	BY	APP'D	DATE	CHECKED: J. DAVIS			SHT NO: 11 OF 18

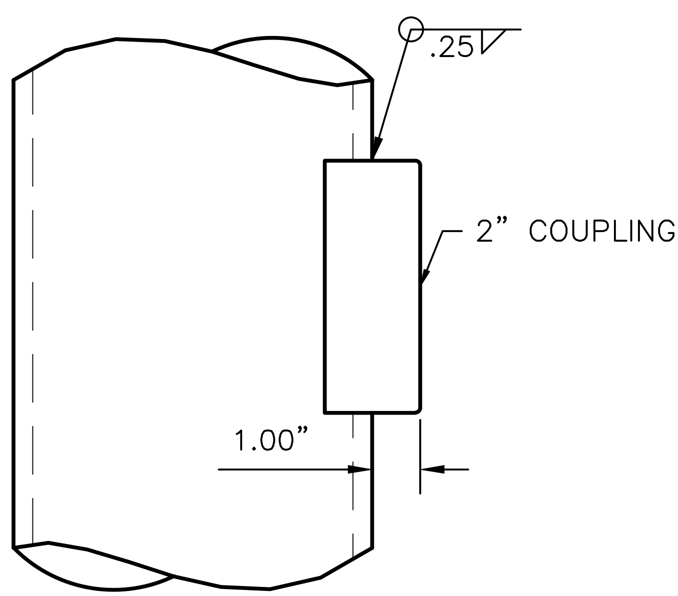


ELEVATION VIEW A

SECTION B

FESTOON OUTLET BOX

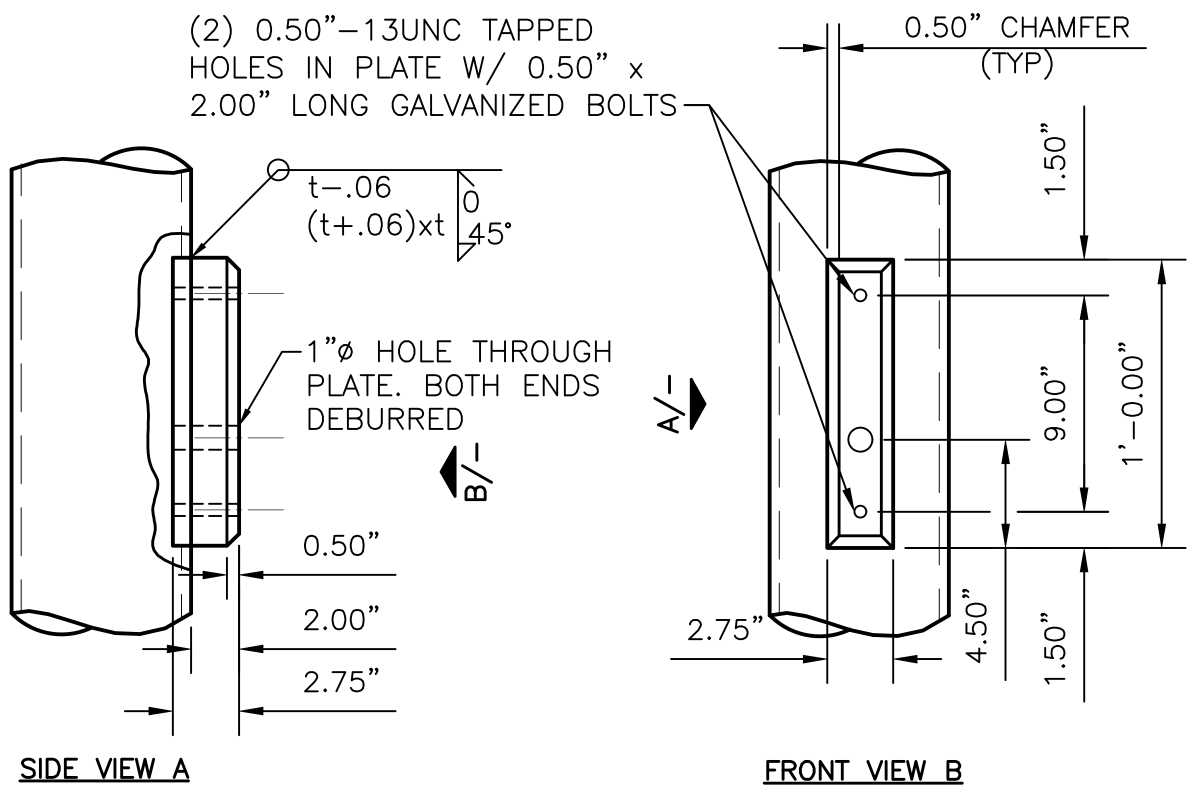
SCALE: 3" = 1'−0"



CABLE OUTLET

SCALE: 3" = 1'−0"

					DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
					DRAWN: L. ANDERSON	King County METRO	STANDARD STEEL POLE PURCHASE REQUIREMENTS OUTLET DETAILS	STD DET NO: SP-201
					CHECKED: J. DAVIS			SHT NO: 12 OF 18
No.	REVISION	BY	APP'D	DATE				



BELLTOWN PEDESTRIAN LIGHT MOUNTING PLATE

SCALE: 1½"" = 1'-0"

No.	REVISION	BY	APP'D	DATE	DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
					DRAWN: L. ANDERSON	King County METRO	STANDARD STEEL POLE PURCHASE REQUIREMENTS LIGHT MOUNTING DETAIL	STD DET NO: SP-201
					CHECKED: J. DAVIS			SHT NO: 13 OF 18

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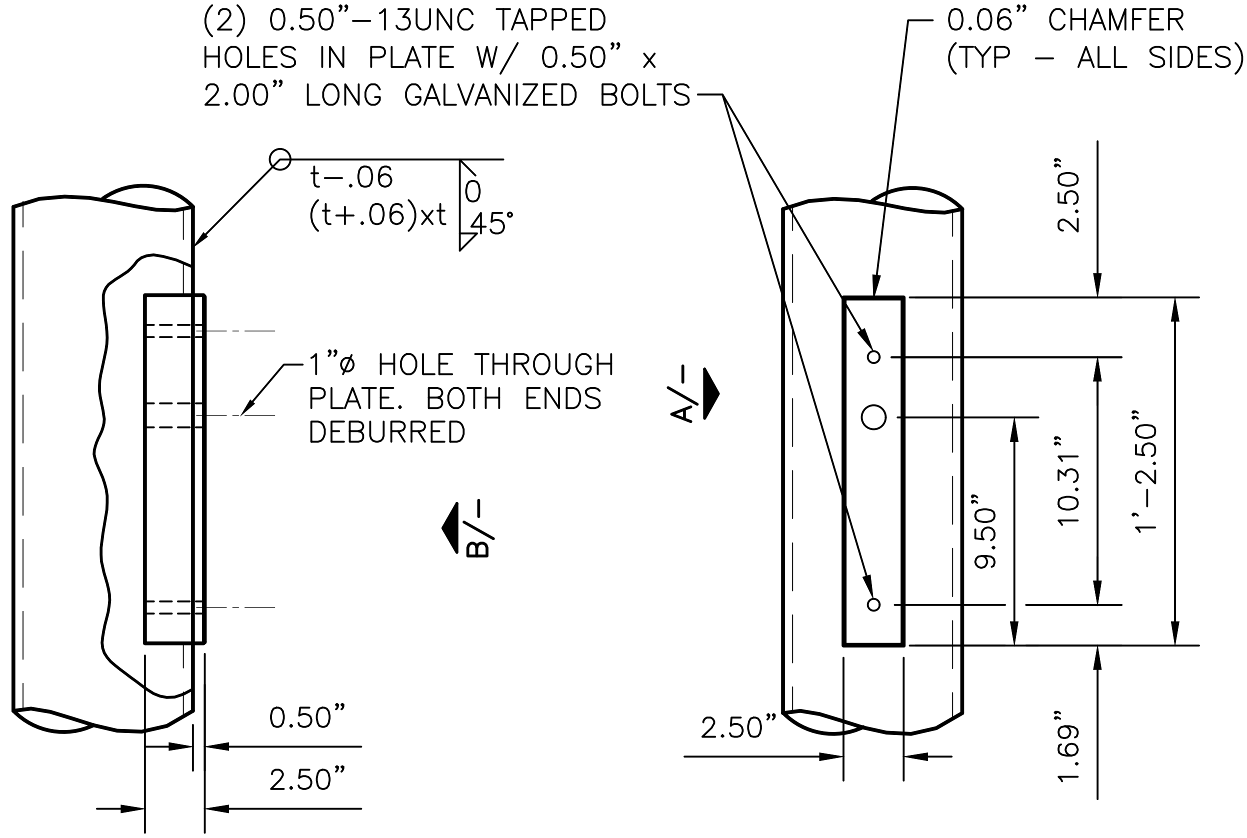

SIDE VIEW A

FRONT VIEW B

WESTLAKE PEDESTRIAN LIGHT MOUNTING PLATE

SCALE: 1½"" = 1'–0"

					DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
					DRAWN: L. ANDERSON	King County METRO	STANDARD STEEL POLE PURCHASE REQUIREMENTS LIGHT MOUNTING DETAIL	STD DET NO: SP-201
No.	REVISION	BY	APP'D	DATE	CHECKED: J. DAVIS			SHT NO: 14 OF 18

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IMAGES:

GENERAL NOTES

1. MATERIALS

A. POLE SHAFTS, REINFORCING SLEEVES, HANDHOLE FRAMES, FESTOON FRAMES AND FEEDER RISER FRAMES SHALL COMFORM 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. HANDHOLE 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 ½ INCH X 13 NC. CAP SCREWS SHALL BE HEX HEAD STAINLESS STEEL OR BRONZE. TAPPED HOLES IN THE HANDHOLE FRAMES MAY BE FURNISHED IN LIEU OF NUTS WELDED TO THE HANDHOLE FRAMES.

F. HANDHOLE 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, HANDHOLE 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.

No.	REVISION	BY	APP'D	DATE

DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
DRAWN: L. ANDERSON	King County METRO	STANDARD STEEL POLE PURCHASE REQUIREMENTS GENERAL NOTES	STD DET NO: SP-201
CHECKED: J. DAVIS			SHT NO: 15 OF 18

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.

No.	REVISION	BY	APP'D	DATE

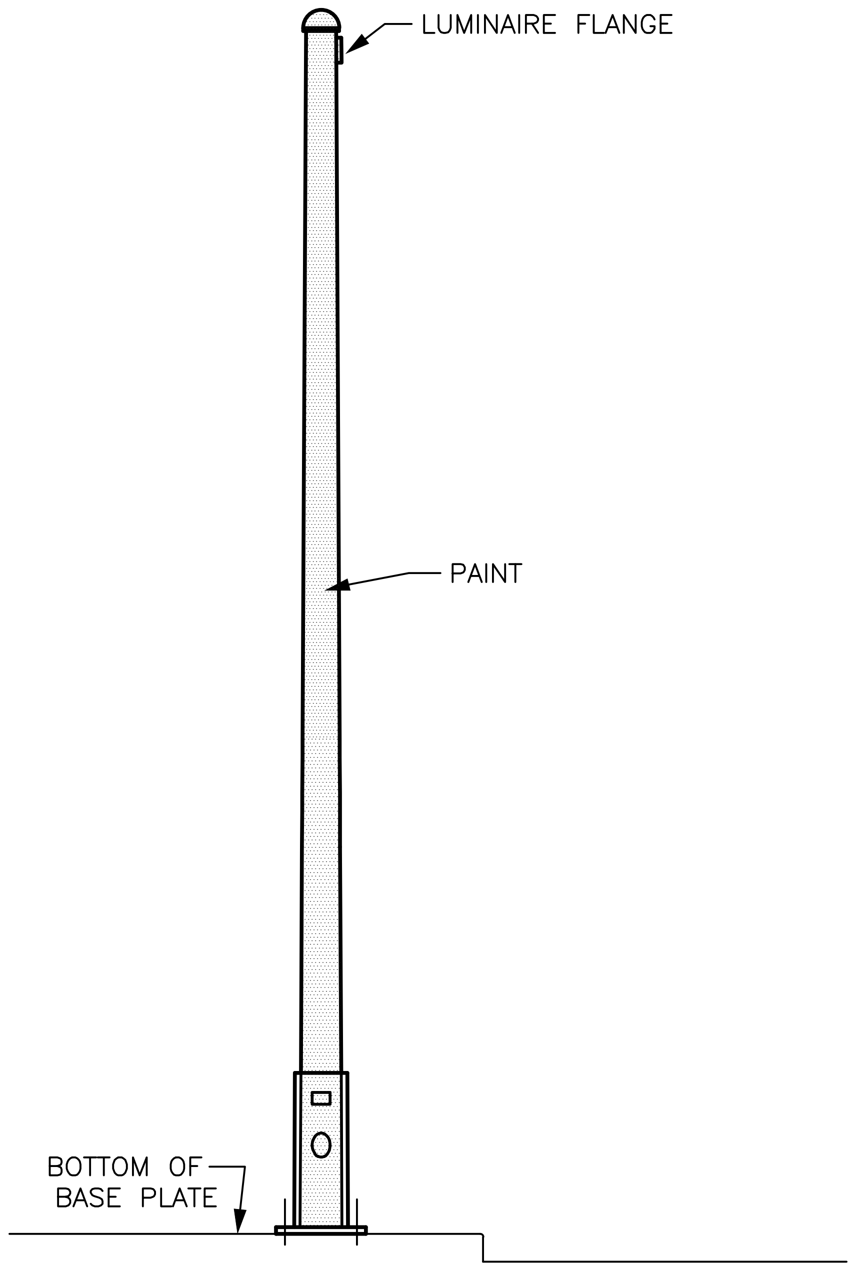
DESIGNED: DGP/AW
APPROVED: P. ENG
DRAWN: L. ANDERSON
CHECKED: J. DAVIS

King County METRO

METRO TRANSIT CAPITAL DIVISION
TROLLEY STANDARD DETAILS

STANDARD STEEL POLE PURCHASE REQUIREMENTS GENERAL NOTES

DATE: 03/2021
STD DET NO: SP-201



ITEM 4 POLE PAINTING EXAMPLE

A. COATING MATERIAL: Epoxy primer, polyurethane finish.

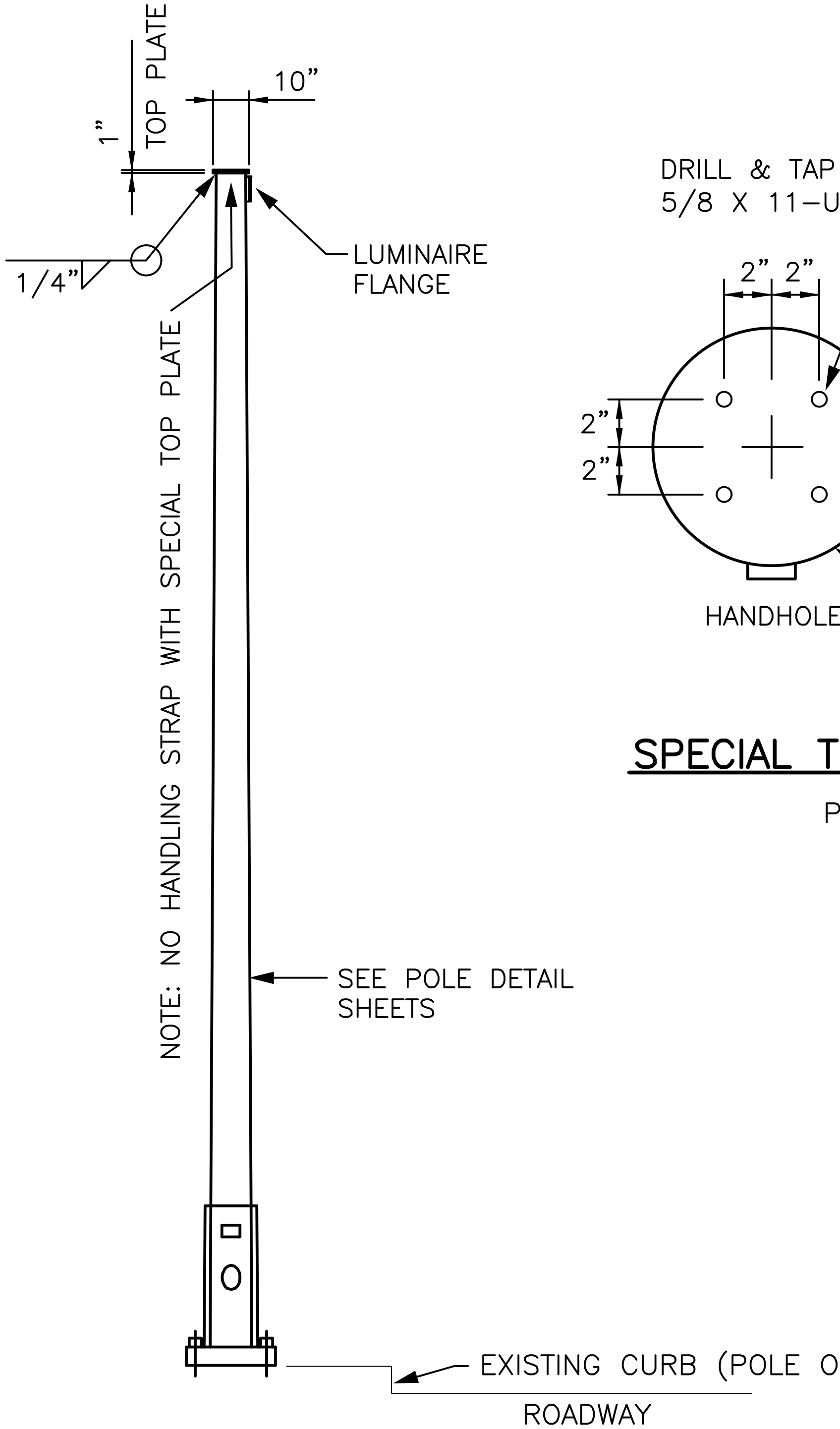
B. SURFACE PREPARATION: Wash with a mild solution of detergent and hot water. Rinse complete and allow to dry, prepare for paint application by providing a SSPC SP−2(Hand Tool Clean).

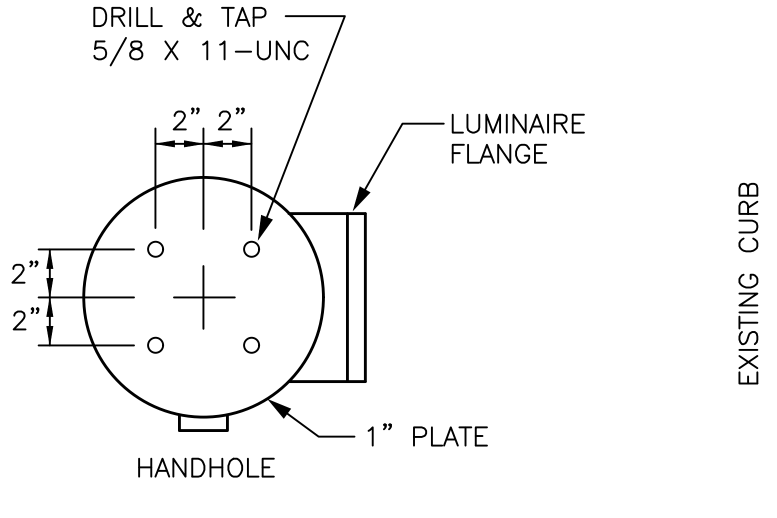
C. COATING:
Primer: One coat of Tnemec's 135 Chembuild, applied at 7−8 mils dry film thickness.
Finish: One coat of Tnemec's Series 74, applied at 4−5 mils dry film thickness.

D. COLOR: As Specified by project requirement.

No.	REVISION	BY	APP'D	DATE

DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
DRAWN: L. ANDERSON	King County METRO	STANDARD STEEL POLE PURCHASE REQUIREMENTS ANCHOR BASE POLE DETAIL	STD DET NO: SP-201
CHECKED: J. DAVIS			SHT NO: 17 OF 18





SPECIAL TOP PLATE DETAIL

PLAN VIEW

ANCHOR BASE STEEL POLE

SPECIAL TOP PLATE DETAIL

					DESIGNED: DGP/AW	APPROVED: P. ENG	METRO TRANSIT CAPITAL DIVISION TROLLEY STANDARD DETAILS	DATE: 03/2021
					DRAWN: L. ANDERSON	King County METRO	STANDARD STEEL POLE PURCHASE REQUIREMENTS ANCHOR BASE POLE DETAIL	STD DET NO: SP-201
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