

Roadway Classification															Lighting District																																																																																																																																																																																																																																																																																																																																																																
CITY OF VANCOUVER STREET LIGHT REQUIREMENTS LUMINANCE METHOD (Straight Sections)															Principal Arterial			Minor Arterial			Collector Arterial			Industrial		Local Access			Downtown	Uptown	Promenade Roadway	Historical District/Officers Row Roadway	Historical District/Officers Row Pathway																																																																																																																																																																																																																																																																																																																																														
Pedestrian Conflict (10)		All	Major			High	Medium	Low	High	Medium	Low	High	Medium	Low	Medium	Low	All	All	All	All	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	

*Both Sides Staggered Preferred Unless Only Half Street is Improved.

**Use Type D Lighting Standard in all Residential Areas Unless the Surrounding Neighborhood is Either Type A or Type N or as Directed by Engineer.

SEE T21-01D FOR (#) NOTE INFORMATION.



REV	NO.	DATE	BY	APPROVED
1	1/15	RAW	CJC	
2	7/19	RAW	CJC	
3	9/21	RAW	CJC	

PUBLIC WORKS - STREETS AND TRANSPORTATION

APPROVED BY:  TRAFFIC ENGINEER MANAGER

APPROVED DATE: 9/1/2021

CITY STREET LIGHTING
REQUIREMENTS SCHEDULE
LUMINANCE METHOD (STRAIGHT SECTIONS)

STANDARD PLAN
NUMBER
T21-01A

Roadway Classification										Lighting District									
CITY OF VANCOUVER STREET LIGHT REQUIREMENTS ILLUMINANCE METHOD (Curved Sections)										SEE CITY'S APPROVED PRODUCTS LIST									
Principal Arterial			Minor Arterial			Collector Arterial			Industrial		Local Access		Downtown	Uptown	Promenade Roadway	Promenade Pathway	Historical District/Officer's Row Roadway	Historical District/Officer's Row Pathway	
Expressway	Major		High	Medium	Low	High	Medium	Low	Primary	Secondary	Medium	Low	Low	All	All	All	All	All	All
Pedestrian Conflict (10)	All	High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low	All	All	All	All	All	All
Applicable Street Sections Standard Details	N/A	T10-04 T10-05	T10-06	T10-07	T10-08 T10-10	T10-09 T10-10	T10-11	T10-12 T10-13	T10-14	T10-20 T10-21	T10-22 T10-23	T10-15A T10-15B	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed
Averaged Maintained Illuminance (2) (3)	1.5	1.8	1.3	0.9	1.5	1.2	0.9	1.2	0.6	1.8	1.5	0.7	0.4	1.8	1.5	1.3	1.5	1.3	1.3
Illuminance Uniformity (4)	3:1	3:1	3:1	3:1	3:1	3:1	3:1	4:1	4:1	3:1	3:1	6:1	6:1	3:1	3:1	4:1	3:1	4:1	4:1
Light Standard Types Approved for Use (7)	Design Required	A	A	A	A	A	A	A	A	A	A	A	D**	D	P	R	O	O	O
Fixtures Mounting Height (nominal in feet) (8)	Design Required	30	30	30	30	30	30	30	30	30	30	25	20	20	20	14	20	14	14
One Side or Both Sides Lighting Applicable (9)	Both Sides	Both Sides	Both Sides	Both Sides	Both Sides	Both Sides	Both Sides	Both Sides	Both Sides	Both Sides	Both Sides	Both Sides	Both Sides	Both Sides	Both Sides	One Side Both Sides	One Side Both Sides	One Side Both Sides	One Side
Luminaire	SEE CITY'S APPROVED PRODUCTS LIST																		
Light Source (7)	As Directed	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed
Lamp Lumen Depreciation (LLD)	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed
Lumen Dirt Depreciation (LDD)	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.95	0.95	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed
Light Distribution	As Directed	3	3	2	3	2	2	2	2	3	2	2	2	As Directed	As Directed	As Directed	As Directed	As Directed	As Directed

*Both Sides Staggered Preferred Unless Only Half Street is Improved.

**Use Type D Lighting Standard in all Residential Areas Unless the Surrounding Neighborhood is Either Type A or Type N or as Directed by Engineer.

SEE T21-01D FOR (#) NOTE INFORMATION.

REV	NO.	DATE	BY	APPROVED	PUBLIC WORKS - STREETS AND TRANSPORTATION	
1	17/15	RAW	CJC			
2	7/19	RAW	CJC			
3	9/21	RAW	CJC			
					APPROVED BY:	TRAFFIC ENGINEER MANAGER
					APPROVED DATE:	9/1/2021



CITY STREET LIGHTING REQUIREMENTS SCHEDULE		STANDARD PLAN NUMBER
LUMINANCE METHOD (CURVED SECTIONS)		T21-01B

CITY OF VANCOUVER STREET LIGHT REQUIREMENTS ILLUMINANCE METHOD	Illumination for Intersections			
	Average Maintained Illumination at Pavement by Pedestrian Area Classification in fc			Illuminance Uniformity (4)
Functional Classification	High	Medium	Low	Average to Minimum
Major Arterial/Major Arterial	3.4	2.6	1.8	3.0
Major Arterial/Minor Arterial	2.2	1.7	1.2	3.0
Major Arterial/Collector	2.9	2.2	1.5	3.0
Major Arterial/Industrial	2.4	1.9	0.9	3.0
Major Arterial/Local Access	2.6	2.0	1.3	3.0
Minor Arterial/Minor Arterial	2.0	1.6	1.2	3.0
Minor Arterial/Collector	1.8	1.4	1.0	3.0
Minor Arterial/Industrial	2.2	1.8	0.9	3.0
Minor Arterial/Local Access	1.5	1.1	0.9	3.0
Collector/Collector	2.4	1.8	1.2	4.0
Collector/Industrial	2.0	1.6	0.6	3.0
Collector/Local Access	2.1	1.6	1.0	4.0
Industrial/Industrial	2.4	2.0	—	3.0
Industrial/Local Access	1.8	1.5	0.5	4.0
Local Access/Local Access	1.8	1.4	0.8	6.0

SEE T21-01D FOR (#) NOTE INFORMATION.

REV NO.	DATE	BY	APPR
1	1/15	RAW	CJC
2	9/21	RAW	CJC

PUBLIC WORKS – STREETS
AND TRANSPORTATION

APPROVED BY: 
TRAFFIC ENGINEER MANAGER
APPROVED DATE: 9/1/2021



CITY STREET LIGHTING REQUIREMENTS INTERSECTION ILLUMINANCE	STANDARD PLAN NUMBER T21-01C
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NOTES:

ALL INFORMATION IN THIS TABLE IS INTENDED TO PRODUCE A LIGHTING DESIGN WITH LUMINANCE LEVELS AND LUMINANCE UNIFORMITY FOR STRAIGHT ROADWAYS AND ILLUMINANCE LEVELS AND UNIFORMITY FOR INTERSECTIONS AND CURVED ROADWAYS. LIGHT LEVELS AND UNIFORMITY VALUES MEET OR EXCEED THOSE IN THE I.E.S., LIGHTING HANDBOOK, RP-8-14. INSTALLATION OF ADDITIONAL LIGHTS MAY BE NECESSARY TO MEET THE INTENT OF THIS STANDARD.

1. AVERAGE MAINTAINED LUMINANCE IS MEASURED IN CANDELA PER SQUARE METER. AVERAGE MAINTAINED ILLUMINANCE IS MEASURED IN FOOTCANDLES.
2. AT SIGNALIZED INTERSECTIONS, THE AVERAGE MAINTAINED ILLUMINANCE SHALL BE AS NOTED IN THE ILLUMINATION FOR INTERSECTIONS TABLE ON T21-01C. FOR INTERSECTIONS WITH ONLY ONE ROADWAY LIT, THE AVERAGE MAINTAINED LUMINANCE SHALL BE 1.5 TIMES THE HIGHEST LIT APPROACH.
3. LUMINANCE UNIFORMITY IS THE RATIO OF AVERAGE OR MAXIMUM MAINTAINED LUMINANCE TO MINIMUM LUMINANCE. LUMINANCE VALUES OUTSIDE THE ROADWAY SHALL NOT BE INCLUDED IN THE RATIO.
4. THE LATERAL LOCATION OF THE LIGHT STANDARD FOUNDATION SHALL BE A MINIMUM OF TWO FEET FROM THE FACE OF CURB TO THE FACE OF THE LIGHT POLE, SEE THE INDIVIDUAL LIGHTING DETAILS, LIGHTING SCHEDULES AND LOCATION ON PLANS FOR ADDITIONAL INFORMATION. THE LATERAL LOCATION OF THE CONDUIT AND JUNCTION BOXES SHALL BE ADJACENT TO THE BACK OF CURB, EXCEPT WHEN AN ALTERNATE LOCATION BETWEEN THE CURB AND SIDEWALK IS SHOWN ON THE PLANS. WHERE A PLANTING STRIP IS NOT PROVIDED AND THE SIDEWALK IS ADJACENT TO THE BACK OF CURB, THE LIGHT STANDARD SHALL NOT BE LOCATED MORE THAN EIGHT FEET FROM THE BACK OF CURB. WHERE THE SIDEWALK IS ATTACHED TO THE BACK OF CURB, THE CONDUITS AND JUNCTION BOXES SHALL BE LOCATED BEHIND THE SIDEWALK BUT NOT MORE THAN EIGHT FEET FROM THE BACK OF CURB. IF NO SIDEWALK IS PROVIDED.
5. LIGHTING LAYOUTS WILL REQUIRE APPROVAL AND POSSIBLE ADJUSTMENT TO MEET THE COV LIGHTING OBJECTIVES AND I.E.S. STANDARDS. THIS MAY INCLUDE ADJUSTMENT TO THE POLE SPACING AS LISTED AND MAY RESULT IN ADDITIONAL OR FEWER LIGHTS.
6. LIGHTING STANDARDS TYPE D, TYPE O, TYPE P, AND TYPE R SHALL ONLY BE USED IN THE DESIGNATED LIGHTING DISTRICTS. LIGHT STANDARDS LISTED ARE DEFINED IN MORE DETAIL IN THE "STANDARDS AND SPECIFICATIONS FOR TRAFFIC CONTROL DEVICES AND LIGHTING" DOCUMENT AND THE CITY'S APPROVED PRODUCTS LIST. STANDARD DETAILS FOR THE LIGHT STANDARDS ARE AVAILABLE.
7. ALL LIGHTING FIXTURES SHALL BE LIGHT EMITTING DIODE (LED) OR AS DIRECTED BY THE CITY. LIGHTING CIRCUITS SHALL BE 120 VOLTS. POST TOP FIXTURES IN RESIDENTIAL LAND USE AREAS SHALL BE I.E.S. TYPE V DISTRIBUTION. SEE THE "STANDARDS AND SPECIFICATIONS FOR TRAFFIC."
8. THE MOUNTING HEIGHT OF THE FIXTURE IS MEASURED FROM THE ROADWAY SURFACE TO THE CENTER OF THE LIGHT SOURCE. 6 FEET ARMS ARE USED IN ROADWAYS WITH PLANTER STRIPS AND 10 FEET ARMS IN CURB TIE AREAS.
9. ALTERNATIVE LIGHTING LAYOUTS MAY BE SUBMITTED FOR REVIEW. WHERE LIGHTING IS REQUIRED ON BOTH SIDES, DESIGNS SHALL BE "OPPOSITE LIGHTING" ON MAJOR ROADWAYS GREATER THAN 48 FEET IN THE USE OF STAGGERED LIGHTING SHALL ONLY BE USED WHERE "OPPOSITE LIGHTING" IS NOT PRACTICAL. LIGHTING LAYOUTS ON LOCAL RESIDENTIAL STREETS WITHIN A SUBDIVISION MAY VARY FROM SIDE TO SIDE.
10. LOW, MEDIUM, AND HIGH PEDESTRIAN CONFLICT AREAS ARE AS DEFINED IN THE ANSI/IES RP-8-14. **LOW PEDESTRIAN CONFLICT AREAS** ARE GENERALLY IN RESIDENTIAL AREAS. **MEDIUM PEDESTRIAN CONFLICT AREAS** HAVE MODERATE NIGHT PEDESTRIAN ACTIVITIES TYPICALLY FOUND NEAR COMMUNITY FACILITIES SUCH AS LIBRARIES AND RECREATION CENTERS. **HIGH PEDESTRIAN CONFLICT AREAS** ARE TYPICALLY FOUND NEAR COMMERCIAL AREAS IN URBAN ENVIRONMENTS. CONSULT THE ANSI/IES RP-8-14 FOR COMPLETE DEFINITIONS OF PEDESTRIAN CONFLICT AREAS. THE CITY OF VANCOUVER TRAFFIC ENGINEER'S DETERMINATION OF THE CORRECT PEDESTRIAN CONFLICT DESIGNATION FOR AN AREA SHALL BE USED FOR LIGHTING SYSTEM DESIGN.

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REV NO.	DATE	BY	APPR	PUBLIC WORKS - STREETS AND TRANSPORTATION	
1	1/15	RAW	CJC		
2	7/19	RAW	CJC		
3	9/21	RAW	CJC		
APPROVED BY: 				TRAFFIC ENGINEER MANAGER	
APPROVED DATE: 9/1/2021					



CITY STREET LIGHTING
REQUIREMENTS NOTES

STANDARD PLAN
NUMBER

T21-01D

FIXTURE MOUNTING HEIGHT (FT.), "K"	POLE HEIGHT (FT.)	USE
20	18	
25	23	RESIDENTIAL
30	28	ARTERIAL
35	33	

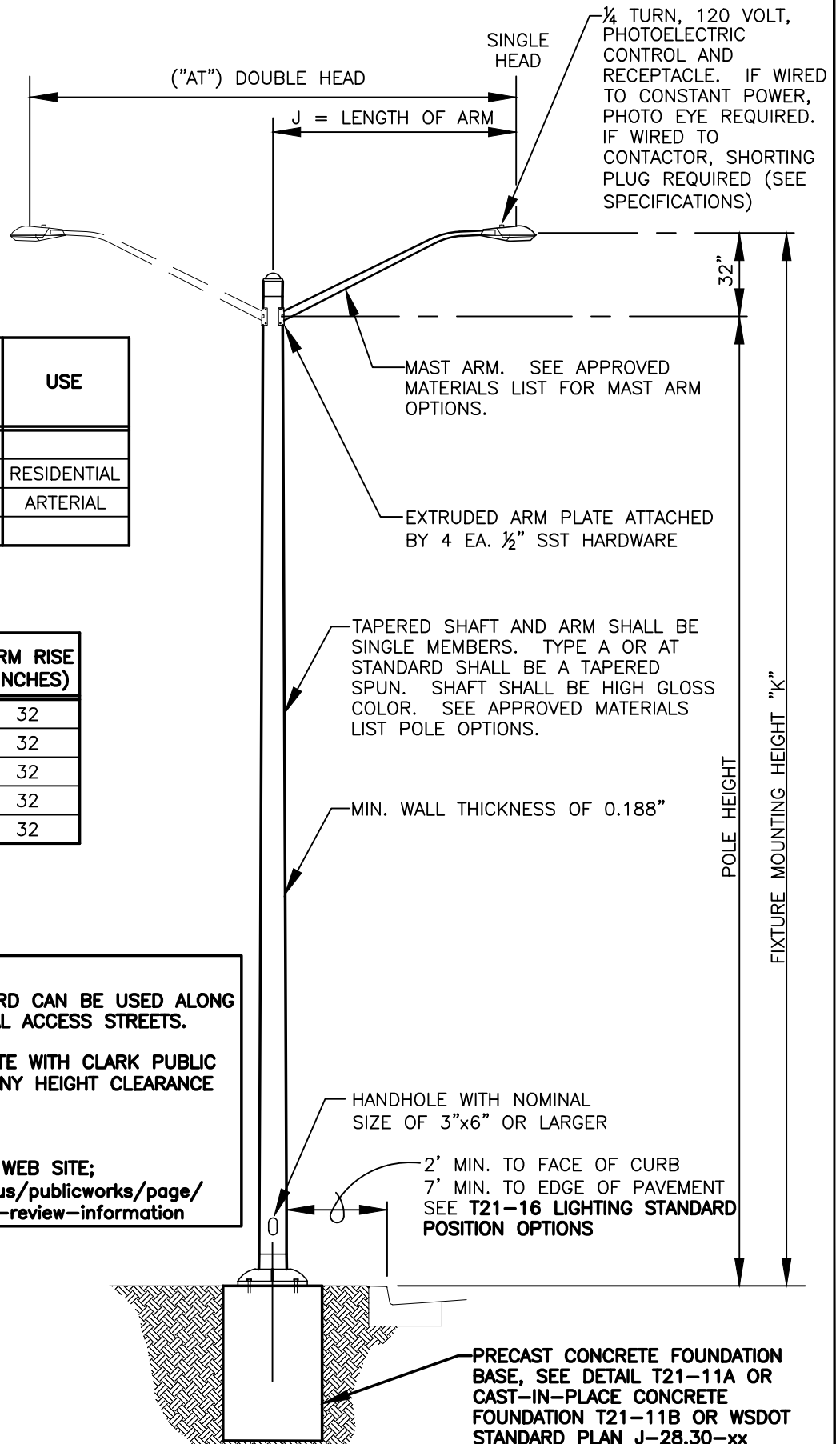
ARM LENGTH (FT.) "J"	ARM RISE (INCHES)
4	32
6 (STD.)	32
8	32
10	32
12	32

NOTES:

1. THIS LIGHTING STANDARD CAN BE USED ALONG RESIDENTIAL AND LOCAL ACCESS STREETS.
2. CHECK AND COORDINATE WITH CLARK PUBLIC UTILITIES (CPU) FOR ANY HEIGHT CLEARANCE CONFLICTS.

APPROVED MATERIALS LIST:

SEE CITY OF VANCOUVER'S WEB SITE;
<http://www.cityofvancouver.us/publicworks/page/transportation-development-review-information>



REV NO.	DATE	BY	APPR	AGE
1	4/06	RAW	AGE	
2	2/07	RAW	AGE	
3	8/08	RAW	AGE	
4	1/15	RAW	AGE	
5	7/19	RAW	CJC	
6	9/21	RAW	CJC	

PUBLIC WORKS – STREETS
AND TRANSPORTATION

APPROVED BY: *[Signature]*
TRAFFIC ENGINEER MANAGER
APPROVED DATE: 9/1/2021

CITY OF
Vancouver
WASHINGTON

TYPE A AND TYPE AT
LIGHTING STANDARDS

STANDARD PLAN
NUMBER

T21-02

NOTES:

1. DIRECT BURIAL POLES ARE AN OPTION FOR TYPE D LIGHTING STANDARDS, SEE MATERIALS LIST.

APPROVED MATERIALS LIST:

SEE CITY OF VANCOUVER'S WEB SITE;

<http://www.cityofvancouver.us/publicworks/page/transportation-development-review-information>
NOTE:

DIFFERENT MANUFACTURER PARTS CAN NOT BE INTERCHANGED.

DECORATIVE SPUN ALUMINUM RING WITH SLOTS AND ESCUTCHEONS. SLOTS ALLOW LIGHT TO HIGHLIGHT RING

HID LIGHTING AVAILABLE - HPS, LPS, MV, MH VARIOUS REFLECTOR SYSTEMS AVAILABLE FOR TYPE; III, IV, V DISTRIBUTIONS

REMOVABLE DOOR FOR EASY ACCESS TO WIRING

PROVIDE 110 VAC RECEPTACLE

TAPERED SHAFT AND ARM SHALL BE SINGLE MEMBERS. TYPE D STANDARD SHALL BE A FLUTED, TAPERED, COMPOSITE FIBERGLASS REINFORCED SHAFT (OR ALUMINUM)

DECORATIVE COLLAR TYPE "L"

BASE ATTACHED WITH STAINLESS STEEL HEX LOCKING SCREWS

ACCESS DOOR WITH TAMPER-RESISTANT SCREW IN BASE, ALIGN WITH HAND HOLE IN POLE

BRASS FINAL

M=20' (MAX.)

2' MIN. TO FACE OF CURB

SEE T21-16 LIGHTING STANDARD POSITION OPTIONS

PRECAST CONCRETE FOUNDATION BASE, SEE DETAIL T21-11A OR CAST-IN-PLACE CONCRETE FOUNDATION T21-11B OR WSDOT STANDARD PLAN J-28.30-xx

REFERENCES TO WSDOT STANDARD PLANS, USE THE MOST CURRENT VERSION OF THESE STANDARD PLANS.

NOTE:

THIS LIGHTING STANDARD SHALL BE USED IN THE UPTOWN LIGHTING DISTRICT AND ON RESIDENTIAL STREETS, UNLESS THE SURROUNDING NEIGHBORHOOD LIGHTING FIXTURE IS THE TYPE A, TYPE AT OR TYPE N AND WILL BE DETERMINED ON A CASE BY CASE BASIS.

REV NO.	DATE	BY	APPR	AGE
1	4/06	RAW	AGE	
2	2/07	RAW	AGE	
3	8/08	RAW	AGE	
4	7/14	RAW	CJC	
5	1/15	RAW	CJC	
6	9/21	RAW	CJC	

PUBLIC WORKS - STREETS AND TRANSPORTATION

APPROVED BY:

TRAFFIC ENGINEER MANAGER

APPROVED DATE:

9/1/2021

CITY OF
Vancouver
WASHINGTON

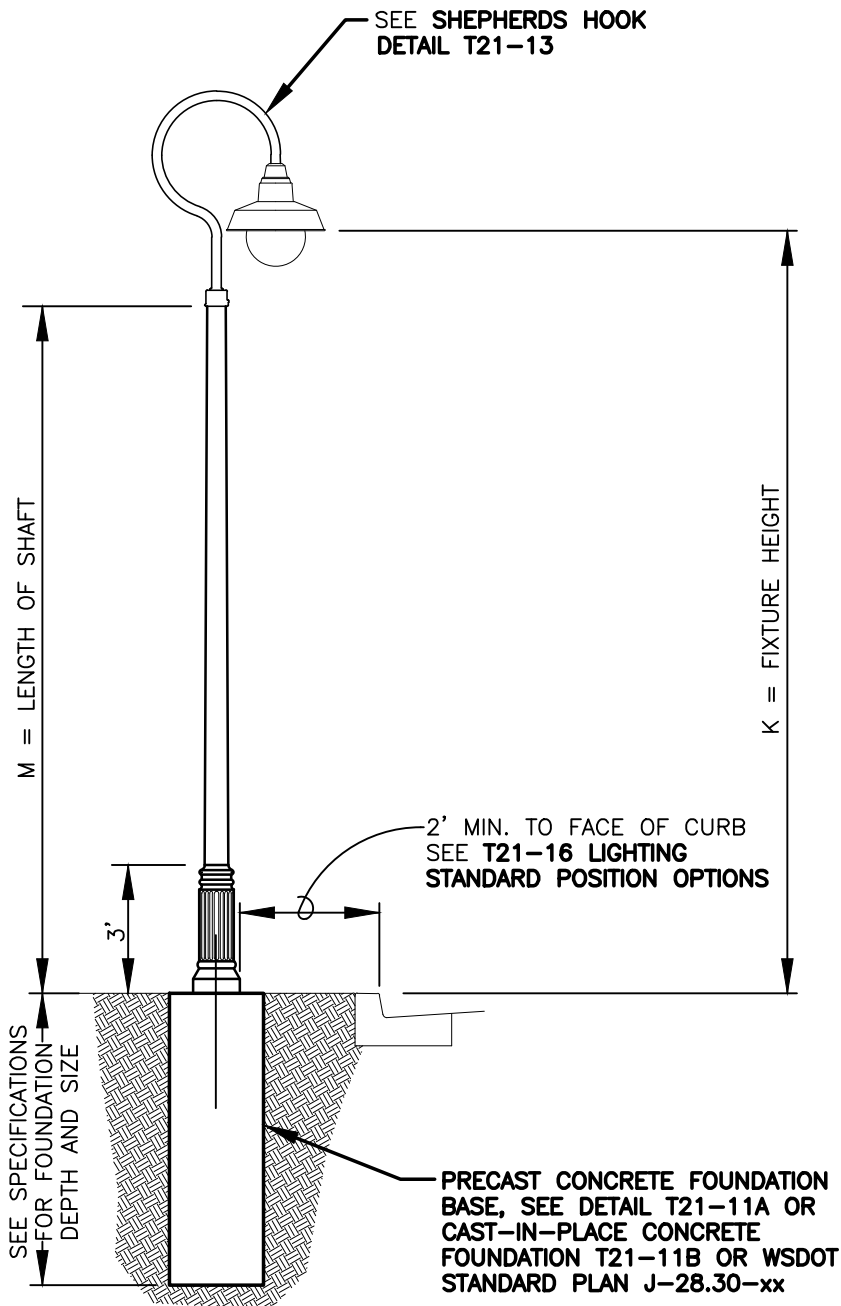
TYPE D
LIGHTING STANDARDS

STANDARD PLAN
NUMBER

T21-04

NOTES:

APPROVED MATERIALS LIST:
 SEE CITY OF VANCOUVER'S WEB SITE;
<http://www.cityofvancouver.us/publicworks/page/transportation-development-review-information>



TYPE	AREA	M
OFFICER'S ROW AND HISTORIC RESERVE	ROADWAY	20'
	PATHWAY	14'

REFERENCES TO WSDOT STANDARD PLANS, USE THE
 MOST CURRENT VERSION OF THESE STANDARD PLANS.

NOTE:

THIS LIGHTING STANDARD SHALL BE USED IN
 THE OFFICERS ROW LIGHTING DISTRICT ONLY.

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REV NO.	DATE	BY	APPR	AGE
1	4/06	RAW	AGE	
2	2/07	RAW	AGE	
3	8/08	RAW	AGE	
4	7/14	RAW	CJC	
5	1/15	RAW	CJC	
6	9/21	RAW	CJC	

PUBLIC WORKS - STREETS
 AND TRANSPORTATION

APPROVED BY: *[Signature]*
 TRAFFIC ENGINEER MANAGER

APPROVED DATE: 9/1/2021

CITY OF
Vancouver
 WASHINGTON

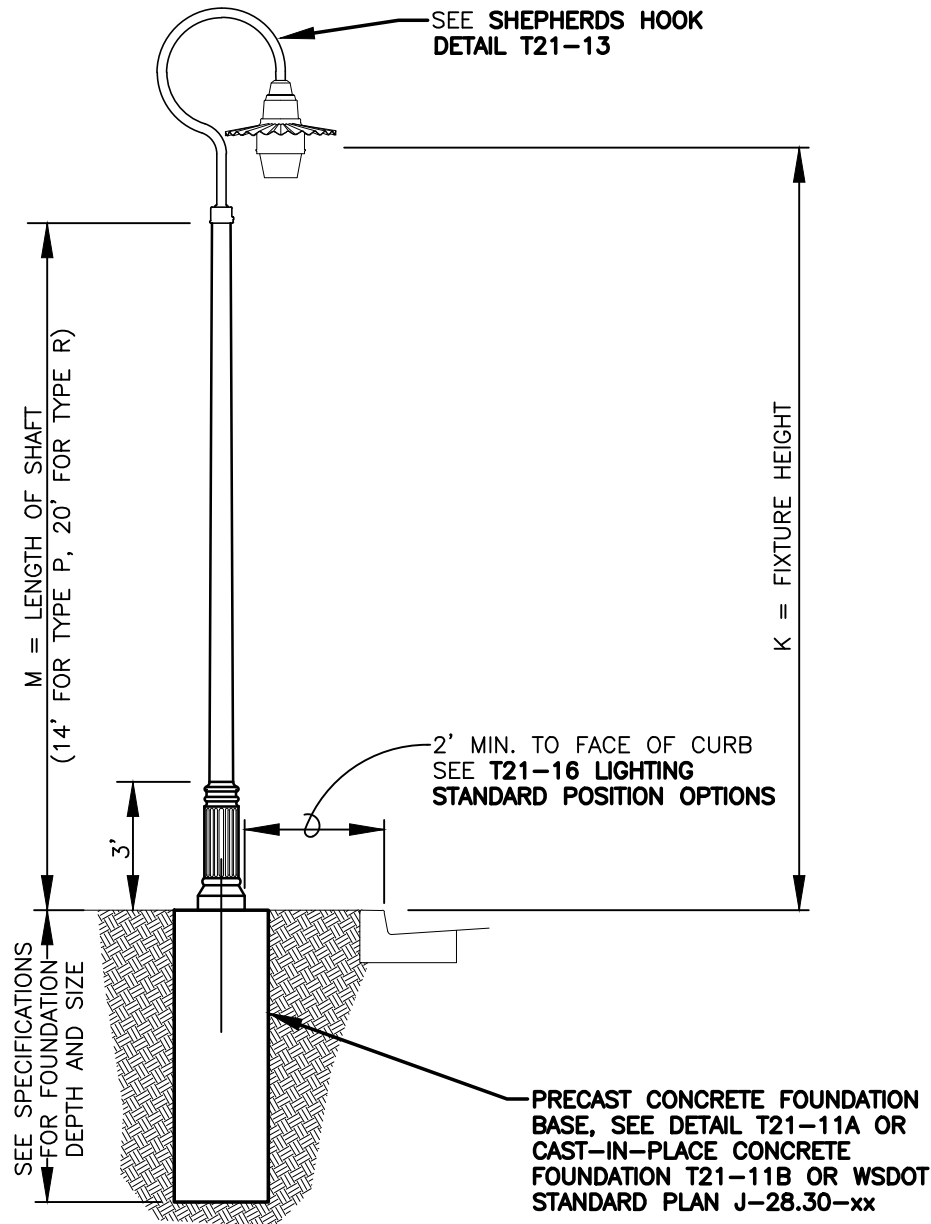
TYPE 0
 LIGHTING STANDARDS

STANDARD PLAN
 NUMBER

T21-06

NOTES:

APPROVED MATERIALS LIST:
 SEE CITY OF VANCOUVER'S WEB SITE;
<http://www.cityofvancouver.us/publicworks/page/transportation-development-review-information>



REFERENCES TO WSDOT STANDARD PLANS, USE THE
 MOST CURRENT VERSION OF THESE STANDARD PLANS.

NOTE:

LIGHTING STANDARD TYPE P SHALL BE USED
 IN THE PROMENADE PATHWAY LIGHTING
 DISTRICT ONLY.
 LIGHTING STANDARD TYPE R SHALL BE USED
 IN THE PROMENADE ROADWAY LIGHTING
 DISTRICT ONLY.

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REV NO.	DATE	BY	APPR	AGE
1	3/06	RAW	AGE	
2	2/07	RAW	AGE	
3	8/08	RAW	AGE	
4	7/14	RAW	CJC	
5	1/15	RAW	CJC	
6	9/21	RAW	CJC	

PUBLIC WORKS - STREETS
 AND TRANSPORTATION

APPROVED BY: *[Signature]*
 TRAFFIC ENGINEER MANAGER

APPROVED DATE: 9/1/2021

CITY OF
Vancouver
 WASHINGTON

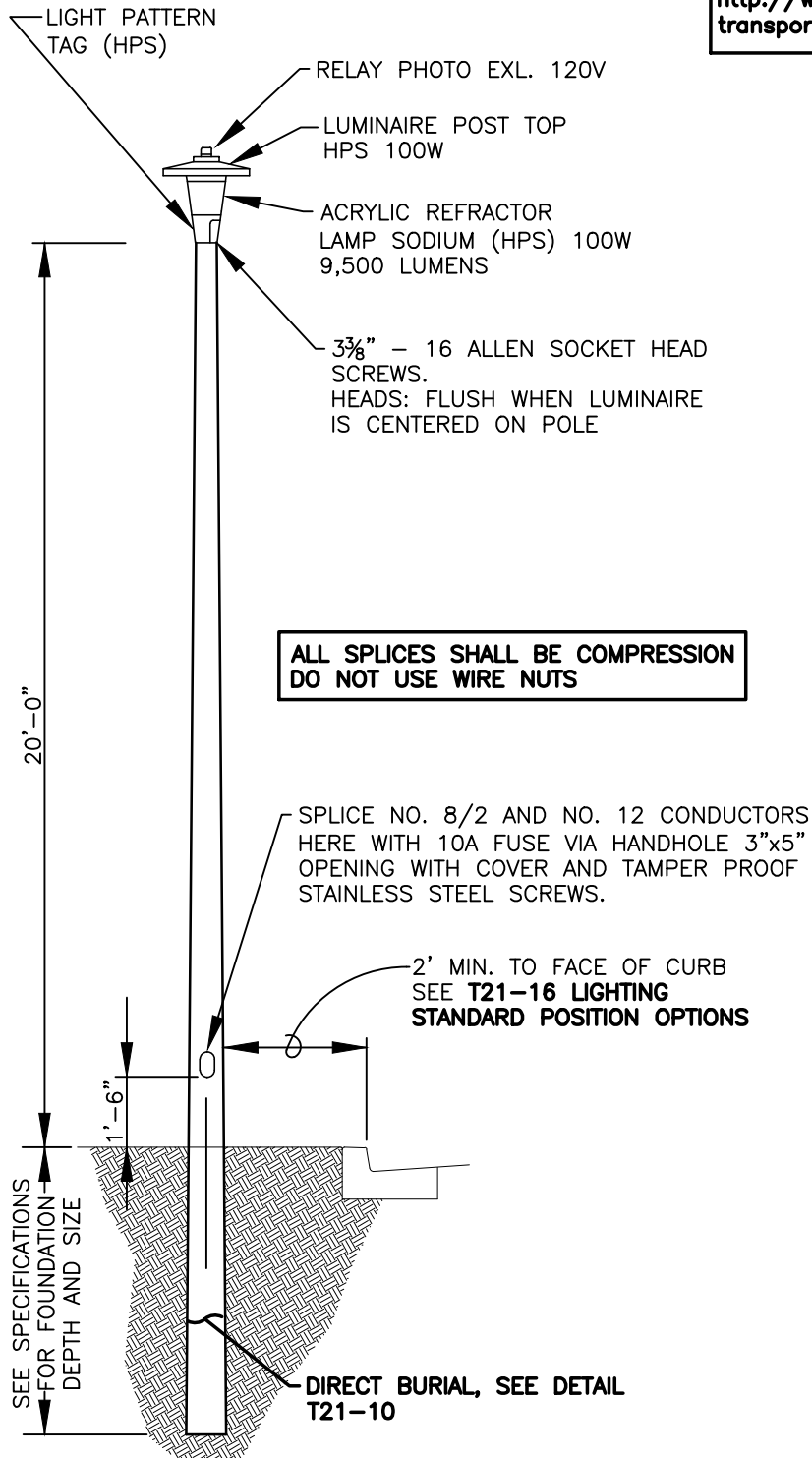
TYPE P AND TYPE R
 LIGHTING STANDARDS

STANDARD PLAN
 NUMBER

T21-07

NOTES:

APPROVED MATERIALS LIST:
 SEE CITY OF VANCOUVER'S WEB SITE;
<http://www.cityofvancouver.us/publicworks/page/transportation-development-review-information>



ALL SPLICES SHALL BE COMPRESSION
 DO NOT USE WIRE NUTS

NOTE:

LIGHTING STANDARD TYPE N CAN BE USED ALONG RESIDENTIAL OR LOCAL ACCESS STREET ONLY OR MATCHING THE SURROUNDING NEIGHBORHOOD.

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REV NO.	DATE	BY	APPR	AGE
1	3/06	RAW	AGE	
2	4/06	RAW	AGE	
3	2/07	RAW	AGE	
4	8/08	RAW	AGE	
5	1/15	RAW	CJC	
6	9/21	RAW	CJC	

PUBLIC WORKS – STREETS
 AND TRANSPORTATION

APPROVED BY: *[Signature]*
 TRAFFIC ENGINEER MANAGER

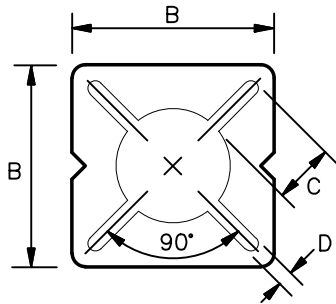
APPROVED DATE: 9/1/2021

CITY OF
Vancouver
 WASHINGTON

TYPE N
 LIGHTING STANDARDS

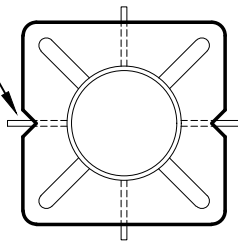
STANDARD PLAN
 NUMBER

T21-08

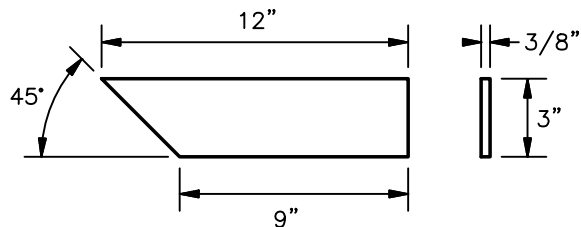


DETAIL A

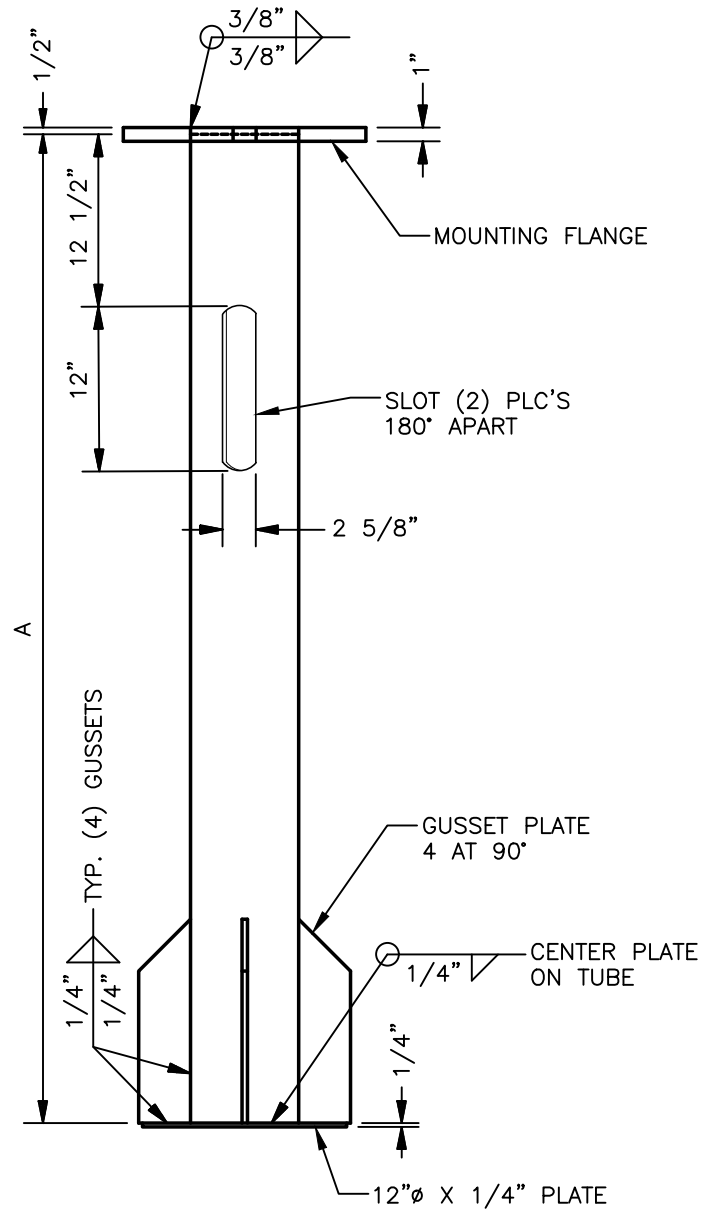
ALIGN NOTCHES WITH
SLOTS IN TUBE.



MOUNTING FLANGE
(SEE DETAIL A)



GUSSET PLATE



PRODUCT SPECIFICATIONS	BTP-663-60-12S	BTP-663-84-16S
A (LENGTH)	60 1/2"	84 1/2"
B	12"	15 3/4"
C	4 3/16"	5 7/16"
D	1 1/16"	1 1/8"
MOUNTING FLANGE	LBP-6ES-12S	LBP-66S-15S
DIAMETER	6 5/8"	6 5/8"
WALL TUBE	0.280"	0.280"

NOTE:

- VARIES WITH APPLICATION. SEE PRODUCT SPECIFICATIONS TABLE.

REV NO.	DATE	BY	APPR
1	2/21	OIS	CJC
2	9/21	RAW	CJC

PUBLIC WORKS – STREETS
AND TRANSPORTATION

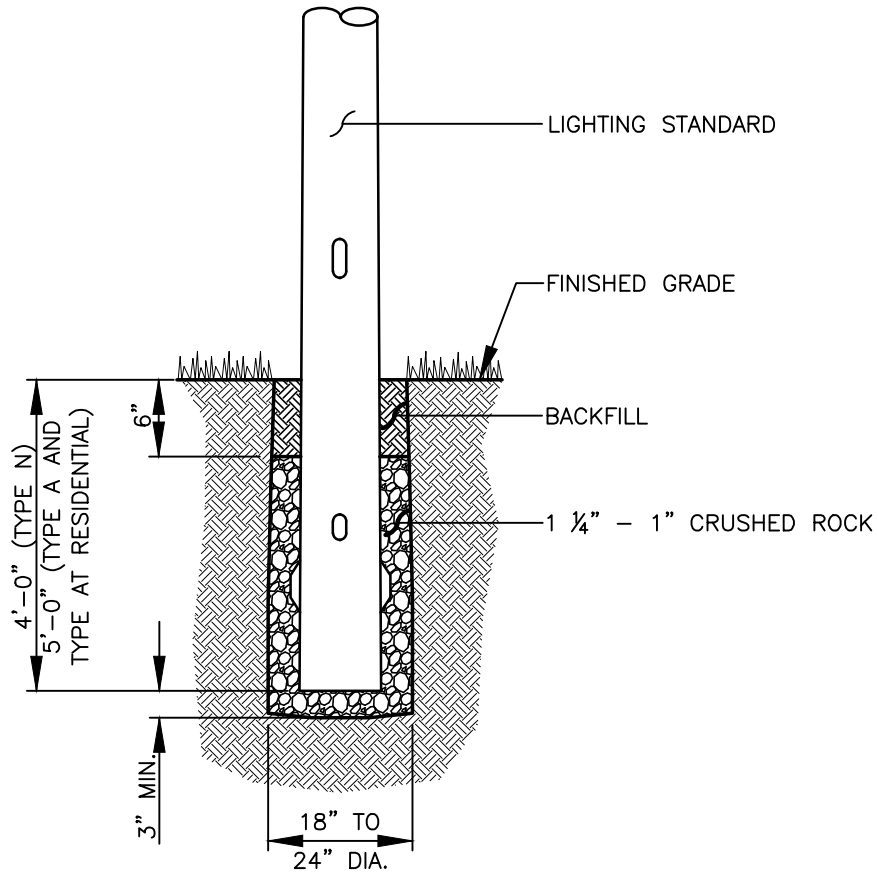
APPROVED BY: *[Signature]*
TRAFFIC ENGINEER MANAGER
APPROVED DATE: 9/1/2021

CITY OF
Vancouver
WASHINGTON

TYPE A – STEEL LIGHT
POLE FOUNDATION

STANDARD PLAN
NUMBER

T21-10A



NOTE:

1. TO BE USED **ONLY** FOR **TYPE A AND TYPE AT RESIDENTIAL LIGHTING STANDARD (T21-03)**, **TYPE D LIGHTING STANDARD (T21-04)** OR **TYPE N LIGHTING STANDARD (T21-08)**.

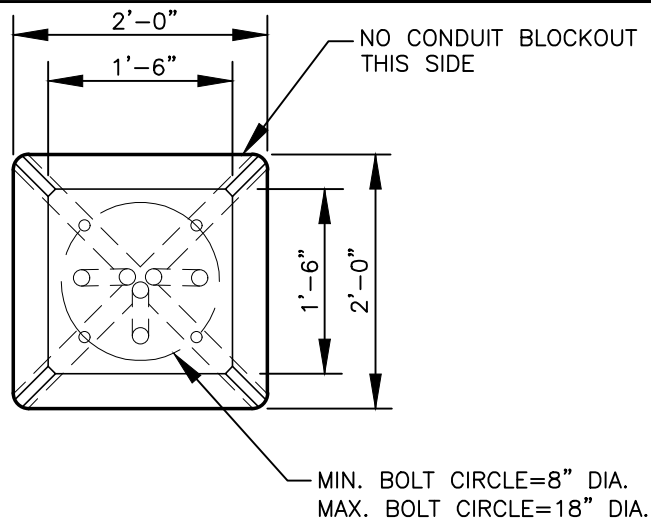
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REV NO.	DATE	BY	APPR	PUBLIC WORKS – STREETS AND TRANSPORTATION
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2	1/15	RAW	CJC	
3	9/21	RAW	CJC	

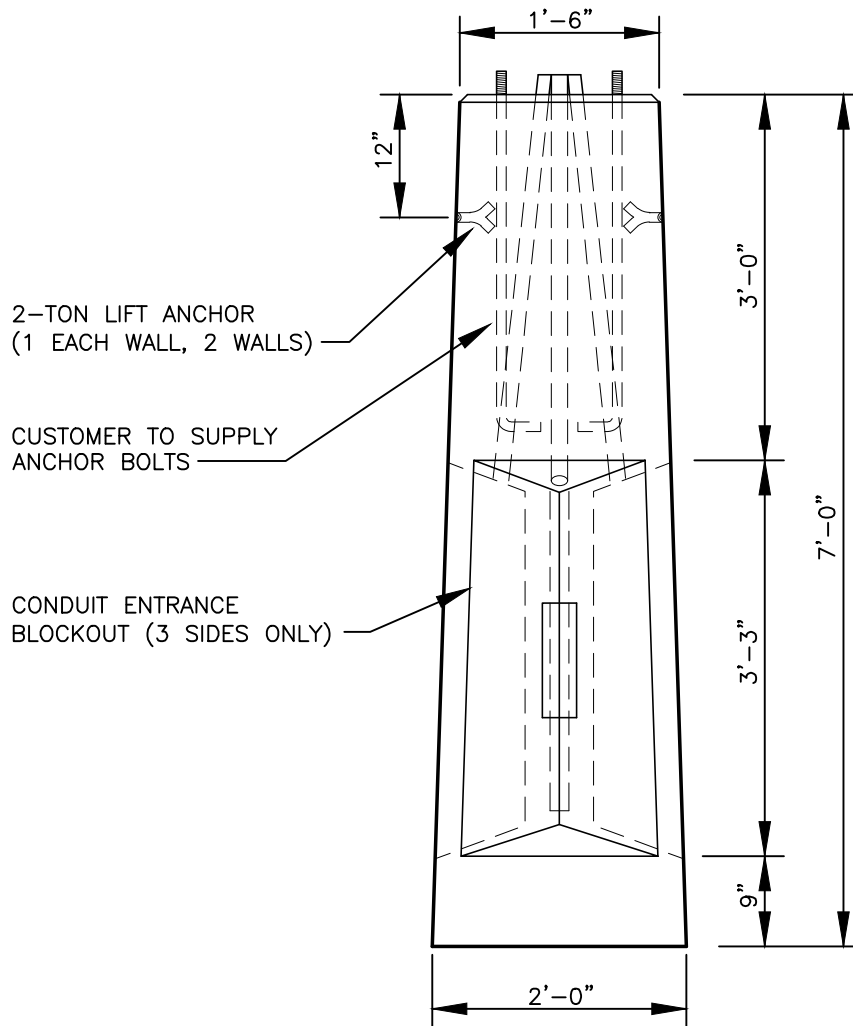


DIRECT BURIAL FOR
STREET LIGHTING
STANDARD

STANDARD PLAN
NUMBER
T21-10B



TOP VIEW



SIDE VIEW

NOTE:

1. CAST-IN-PLACE FOUNDATIONS CAN BE USED INSTEAD OF PRECAST FOUNDATIONS WHEN NECESSARY WITH CITY TRAFFIC ENGINEER'S APPROVAL. FOR CAST-IN-PLACE FOUNDATIONS, SEE **WSDOT STANDARD PLAN J-28.30-xx "STEEL LIGHT STANDARD FOUNDATION TYPES A AND B"**.

REFERENCES TO WSDOT STANDARD PLANS, USE THE MOST CURRENT VERSION OF THESE STANDARD PLANS.

REV NO.	DATE	BY	APPR
1	1/15	RAW	CJC
2	9/21	RAW	CJC

PUBLIC WORKS – STREETS AND TRANSPORTATION

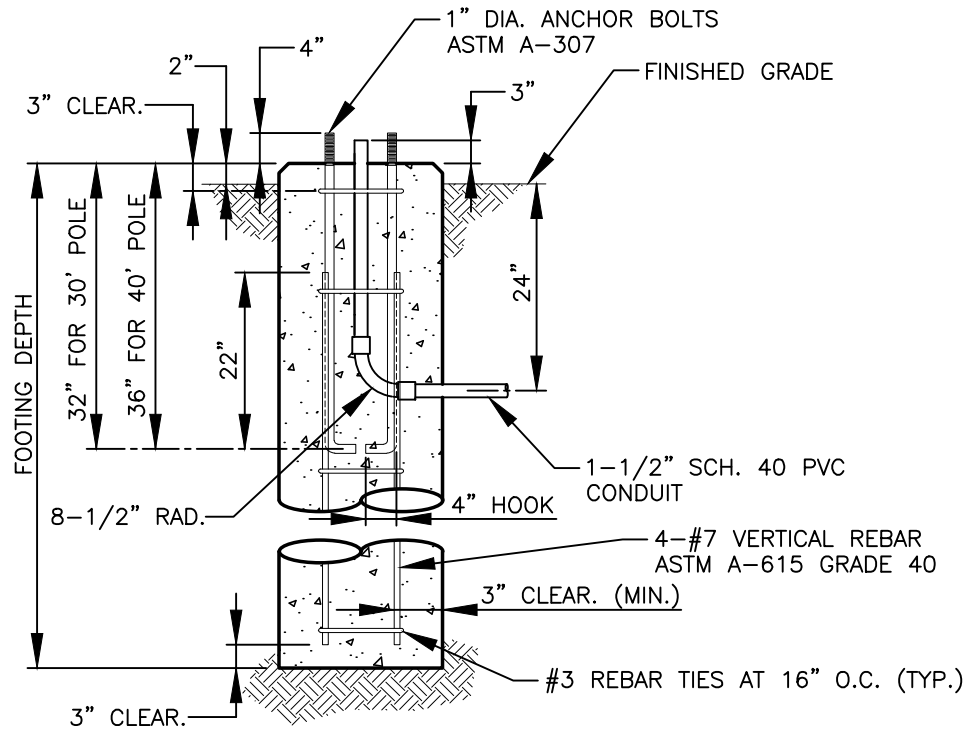
APPROVED BY: *[Signature]*
TRAFFIC ENGINEER MANAGER

APPROVED DATE: 9/1/2021



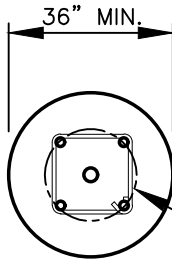
PRECAST FOUNDATION
FOR STREET
LIGHTING

STANDARD PLAN
NUMBER
T21-11A



MOUNTING BASE DETAIL

NOTE:
 CONCRETE STRENGTH = 3,000 PSI AT 28 DAYS.
 CONCRETE STRENGTH = 2,000 PSI PRIOR TO SETTING POLE.



BOLT CIRCLE AS
 REQUIRED FOR
 POLE

MOUNTING BASE TOP VIEW

POLE LENGTH (FEET)	MINIMUM FOOTING DEPTH IN FEET. SEE SOIL TABLE		
	A	B	C
30	5'-0"	6'-6"	8'-0"
40	5'-6"	7'-0"	8'-6"

NOTE:

- FORMING MATERIALS (SONOTUBE) SHALL BE REMOVED FROM THE TOP OF THE FOUNDATION TO SIX INCHES BELOW FINISHED GRADE AFTER CONCRETE HAS HAD A CHANCE TO SET UP.
- SOIL BELOW MOUNTING BASE TO BE UNDISTURBED.

SOIL TYPE	CLASS OF MATERIAL (UNIFORM BUILDING CODE)	
A	GOOD	COMPACT WELL-GRADED SAND AND GRAVEL.
	HARD CLAY	WELL-GRADED FINE AND COARSE SAND (ALL DRAINED SO WATER WILL NOT STAND).
B	AVERAGE	COMPACT FINE SAND MEDIUM CLAY
		COMPACT SANDY LOAM LOOSE COARSE SAND AND GRAVEL (ALL DRAINED SO WATER WILL NOT STAND).
C	POOR	SOFT CLAY CLAY LOAM
		POORLY COMPACTED SAND CLAYS CONTAINING LARGE AMOUNTS OF SILT (WATER STANDS DURING WET SEASON).

NOTE:

- CAST-IN-PLACE FOUNDATIONS CAN BE USED INSTEAD OF PRECAST FOUNDATIONS WHEN NECESSARY WITH CITY TRAFFIC ENGINEER'S APPROVAL. FOR CAST-IN-PLACE FOUNDATIONS, SEE **WSDOT STANDARD PLAN J-28.30-xx "STEEL LIGHT STANDARD FOUNDATION TYPES A AND B"**.

REFERENCES TO WSDOT STANDARD PLANS, USE THE MOST CURRENT VERSION OF THESE STANDARD PLANS.

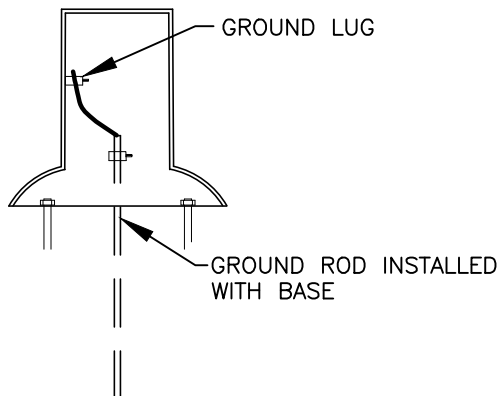
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REV NO.	DATE	BY	APPR	PUBLIC WORKS - STREETS AND TRANSPORTATION	
1	1/15	RAW	CJC		
2	4/18	RAW	CJC	APPROVED BY: 	
3	9/21	RAW	CJC		
				APPROVED DATE:	9/1/2021

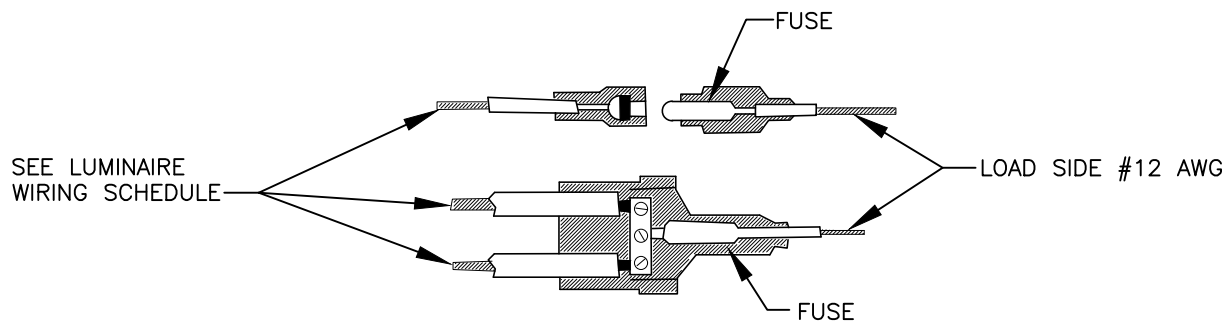
CITY OF
Vancouver
 WASHINGTON

CAST-IN-PLACE
 FOUNDATION FOR
 STREET LIGHTING

STANDARD PLAN
 NUMBER
 T21-11B



GROUNDING DETAIL



"V" DISCONNECT – FUSED
FOR A.W.G.

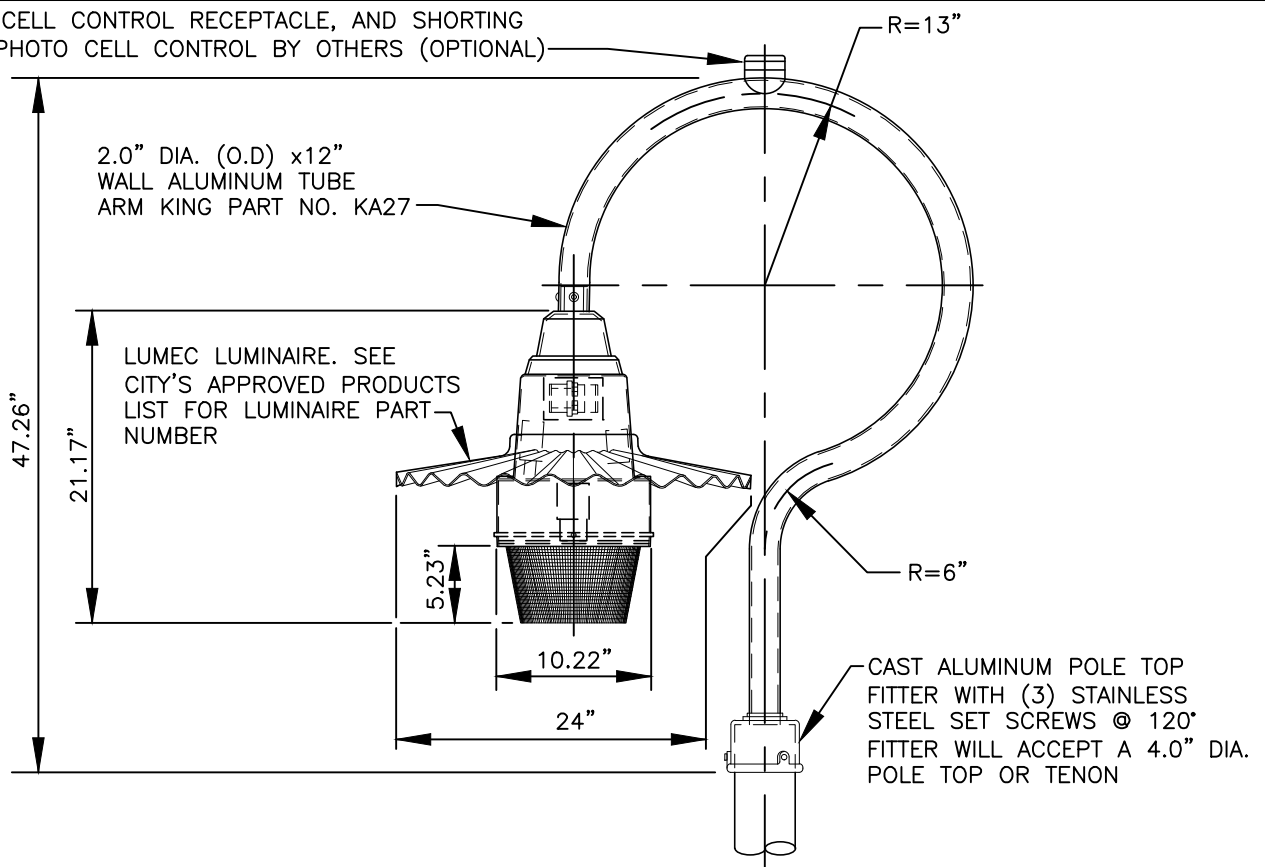
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REV NO.	DATE	BY	APPR	PUBLIC WORKS – STREETS AND TRANSPORTATION
1	8/04	RAW	AGE	
2	3/06	RAW	AGE	
3	2/07	RAW	AGE	
4	8/08	RAW	AGE	
5	1/15	RAW	CJC	APPROVED BY: <i>[Signature]</i> TRAFFIC ENGINEER MANAGER
6	9/21	RAW	CJC	APPROVED DATE: 9/1/2021



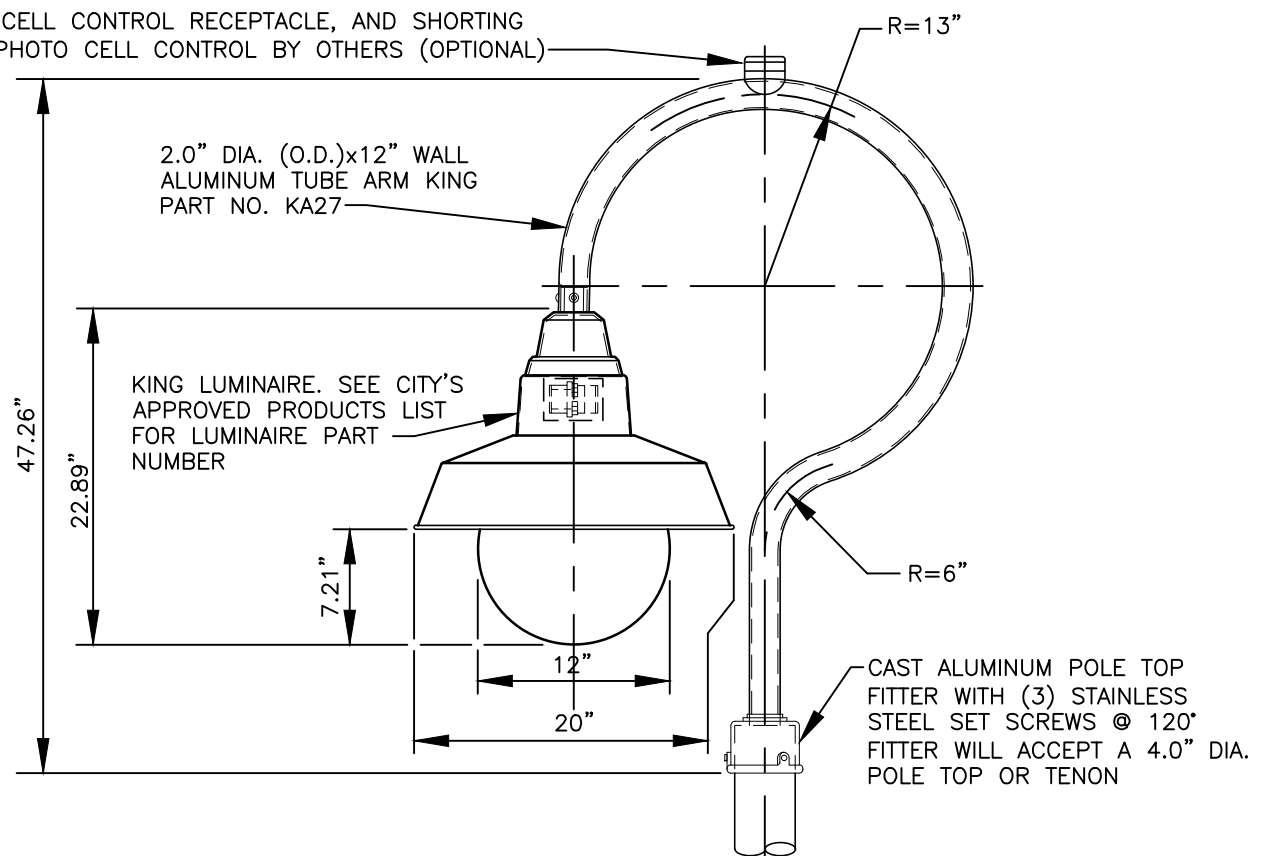
STREET LIGHTING GROUNDING DETAILS AND "V" DISCONNECT – FUSED FOR AWG.	STANDARD PLAN NUMBER
	T21-12

PHOTO CELL CONTROL RECEPTACLE, AND SHORTING
CAP. PHOTO CELL CONTROL BY OTHERS (OPTIONAL)



TYPE P AND TYPE R LIGHTING FIXTURE

PHOTO CELL CONTROL RECEPTACLE, AND SHORTING
CAP. PHOTO CELL CONTROL BY OTHERS (OPTIONAL)



TYPE O LIGHTING FIXTURE

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REV NO.	DATE	BY	APPR	AGE
1	8/04	RAW	AGE	
2	3/06	RAW	AGE	
3	2/07	RAW	AGE	
4	8/08	RAW	AGE	
5	1/15	RAW	CJC	
6	9/21	RAW	CJC	

PUBLIC WORKS – STREETS
AND TRANSPORTATION

APPROVED BY: *[Signature]*
TRAFFIC ENGINEER MANAGER

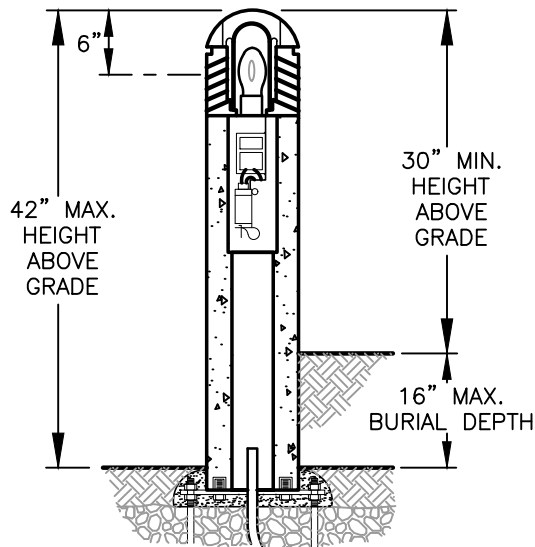
APPROVED DATE: 9/1/2021



SHEPPARDS HOOK DETAIL FOR
TYPE O, TYPE P AND TYPE R
STREET LIGHTING STANDARD

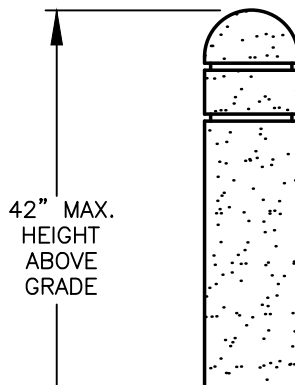
STANDARD PLAN
NUMBER

T21-13



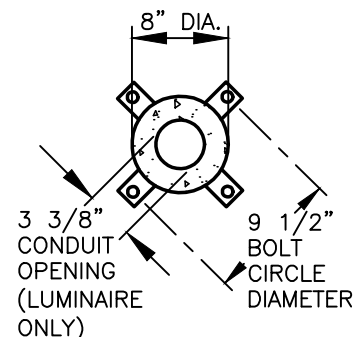
SINGLE FUNCTION LUMINAIRE

CONCRETE SHAFT



BOLLARD

CONCRETE SHAFT



BASE PLAN

NOTES:

- CERTIFICATION SHALL BE UNDERWRITERS LABORATORIES LISTED FOR 120 AND 240 VOLT WET LOCATIONS.
- TOP CAP SHALL BE A ONE PIECE ALUMINUM CASTING 3/16" MINIMUM THICKNESS, SECURED TO LOUVERS BY CONCEALED ALLEN SCREWS IN KEYHOLE SLOTS. FOR RE-LAMPING ACCESS, ALLEN SCREWS SHALL NOT REQUIRE COMPLETE REMOVAL.
- LOUVERS SHALL BE A ONE PIECE ALUMINUM CASTING WITH VERTICAL SUPPORT RIBS AT 90° INTERVALS. HORIZONTAL LOUVER BLADES SHALL HAVE A 1 3/4" DEPTH, A 65° UPWARD PITCH AND PROVIDE LIGHT SOURCE CUTOFF ABOVE HORIZONTAL. LOUVER CASTING SHALL BE SECURED TO SHAFT BY FOUR INTERNAL TIE RODS.
- LAMP ENCLOSURE SHALL BE ONE PIECE TEMPERED MOLDED GLASS WITH INTERNAL FLUTES AND FULL GASKETING AT BOTTOM EDGE.
- SOCKET SHALL BE PORCELAIN MEDIUM BASE RATED 4KV.
- FIXTURE HEAD SHALL ALLOW FLOW-THROUGH VENTILATION AROUND AND ABOVE THE LAMP ENCLOSURE.
- SHAFT CEMENT SHALL CONFORM TO CURRENT SPECIFICATIONS FOR "PORTLAND CEMENT." ASTM C150, TYPE I OR II. AGGREGATES SHALL MEET CURRENT REQUIREMENTS OF "SPECIFICATIONS FOR CONCRETE AGGREGATES," ASTM C33. WATER SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNTS OF SILT, OIL, ACIDS, ALKALIES OR ORGANIC MATERIALS. WIRE FOR REINFORCEMENT SHALL CONFORM TO ASTM A185. STEEL FOR LUGS AND PLATES SHALL CONFORM TO ASTM A36, OR A283 GRADE D.
- BALLAST SHALL BE HIGH POWER FACTOR FOR -20°F STARTING, FACTORY MOUNTED TO A RIGID HARNESS FOR FIELD WIRING AND SUSPENSION FROM FIXTURE WITHIN THE CONCRETE SHAFT.
- ANCHOR BOLTS SHALL BE FOUR 3/8" X 10" + 2" ZINC PLATED L-HOOKS, EACH WITH TWO NUTS, WASHERS AND A RIGID PRESSED BOARD TEMPLATE.
- FINISH SHALL BE T.G.I.C. THERMOSET POLYESTER POWDER-COAT PAINT APPLIED OVER A CHROMATE CONVERSION COATING. NATURAL GRAY SHALL BE USED FOR THE CONCRETE COLOR FINISH. LUMINAIRE FINISH SHALL BE BLACK.
- SURFACE SHALL BE MEDIUM SAND-BLASTED WITH ANTI-GRAFFITI SEALER. COLOR SHALL BE NATURAL GRAY OR INTEGRAL IN CONCRETE MIX.
- CURE AND STRENGTH SHALL ALLOW FOR COMPLETION OF THE HYDRATION PROCESS, AND RESULT IN A 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 4,500 PSI.
- MANUFACTURE SHALL BE BY FIBERGLASS MOLDS TO INSURE UNIFORM PARTS. MOLD PARTING LINES MAY BE SLIGHTLY VISIBLE IN FINISHED PARTS.
- ANCHORAGE SHALL BE BY FOUR STEEL MOUNTING TABS FOR INSTALLATION ON FOUR 1/2" X 10" + 2" ZINC ELECTROPLATED L-HOOK ANCHOR BOLTS. EACH ANCHOR BOLT IS SUPPLIED WITH TWO NUTS, TWO WASHERS, AND A RIGID PRESSED BOARD TEMPLATE.
- ELECTRICAL MODULE SHALL BE 100 WATT COATED 120 LINE VOLTS, 129 LINE WATTS AND 1.15 MAX. AMPS.
- SHIPMENT SHALL BE PALLETIZED WITH ADEQUATE HOLD-DOWNS TO PREVENT LOAD MOVEMENT IN TRANSIT.
- KIM LIGHTING MODEL. SEE CITY'S APPROVED PRODUCTS LIST FOR PART NUMBER.**
- SEE **TYPICAL CONNECTING PUBLIC STREET WITH PATHWAYS AND LIGHTING DETAIL T21-14B** FOR ADDITIONAL INFORMATION.

REV NO.	DATE	BY	APPR	DESCRIPTION
1	8/04	RAW	AGE	PUBLIC WORKS - STREETS AND TRANSPORTATION
2	3/06	RAW	AGE	
3	2/07	RAW	AGE	
4	8/08	RAW	AGE	
5	1/15	RAW	CJC	
6	9/21	RAW	CJC	

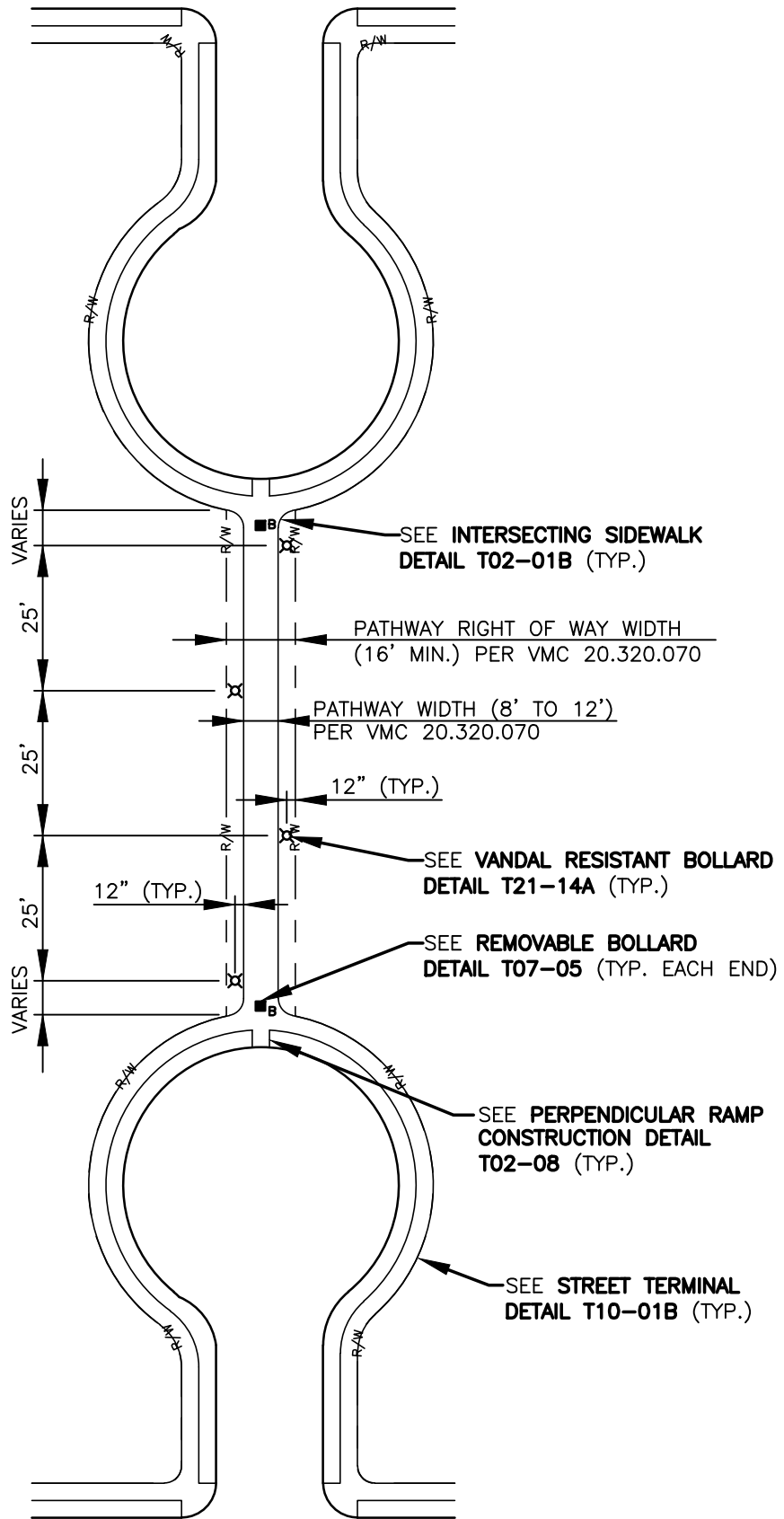
APPROVED BY: *[Signature]*
TRAFFIC ENGINEER MANAGER
APPROVED DATE: 9/1/2021



VANDAL RESISTANT BOLLARD
(LIGHTED AND
NON-LIGHTED)

STANDARD PLAN
NUMBER
T21-14A

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REV NO.	DATE	BY	APPR
1	2/07	RAW	AGE
2	8/08	RAW	AGE
3	1/15	RAW	CJC
4	9/21	RAW	CJC

PUBLIC WORKS – STREETS AND TRANSPORTATION

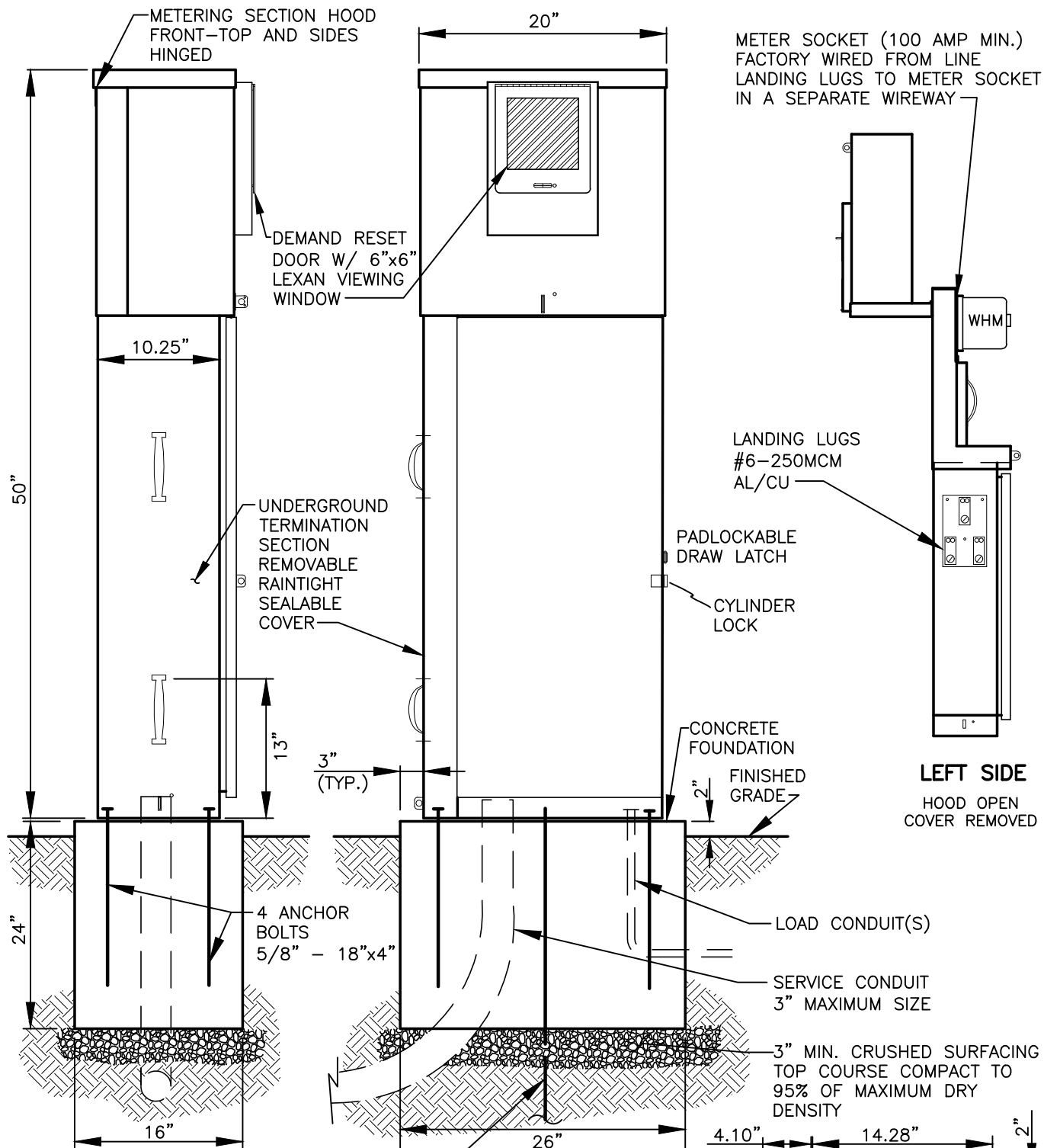
APPROVED BY: *[Signature]*
TRAFFIC ENGINEER MANAGER

APPROVED DATE: 9/1/2021



TYPICAL CONNECTING PUBLIC STREET WITH PATHWAYS AND LIGHTING

STANDARD PLAN NUMBER
T21-14B



NOTES:

1. SERVICE ENCLOSURE REQUIREMENTS ON DETAIL **T20-41**.
2. SEE WIRING DIAGRAM ON DETAIL **T21-15B**.
3. PLACE A SILICONE SEAL BETWEEN THE CABINET FOUNDATION AND THE CABINET.
4. ENCLOSURE SHALL BE TESCO CLASS 27-000 OR CITY APPROVED EQUAL PRIOR TO BID.

REV NO.	DATE	BY	APPR	AGE
1	3/06	RAW	AGE	
2	8/08	RAW	AGE	
3	1/15	RAW	CJC	
4	4/18	RAW	CJC	
5	7/18	RAW	CJC	
6	9/21	RAW	CJC	

PUBLIC WORKS - STREETS AND TRANSPORTATION

APPROVED BY: *[Signature]*

TRAFFIC ENGINEER MANAGER

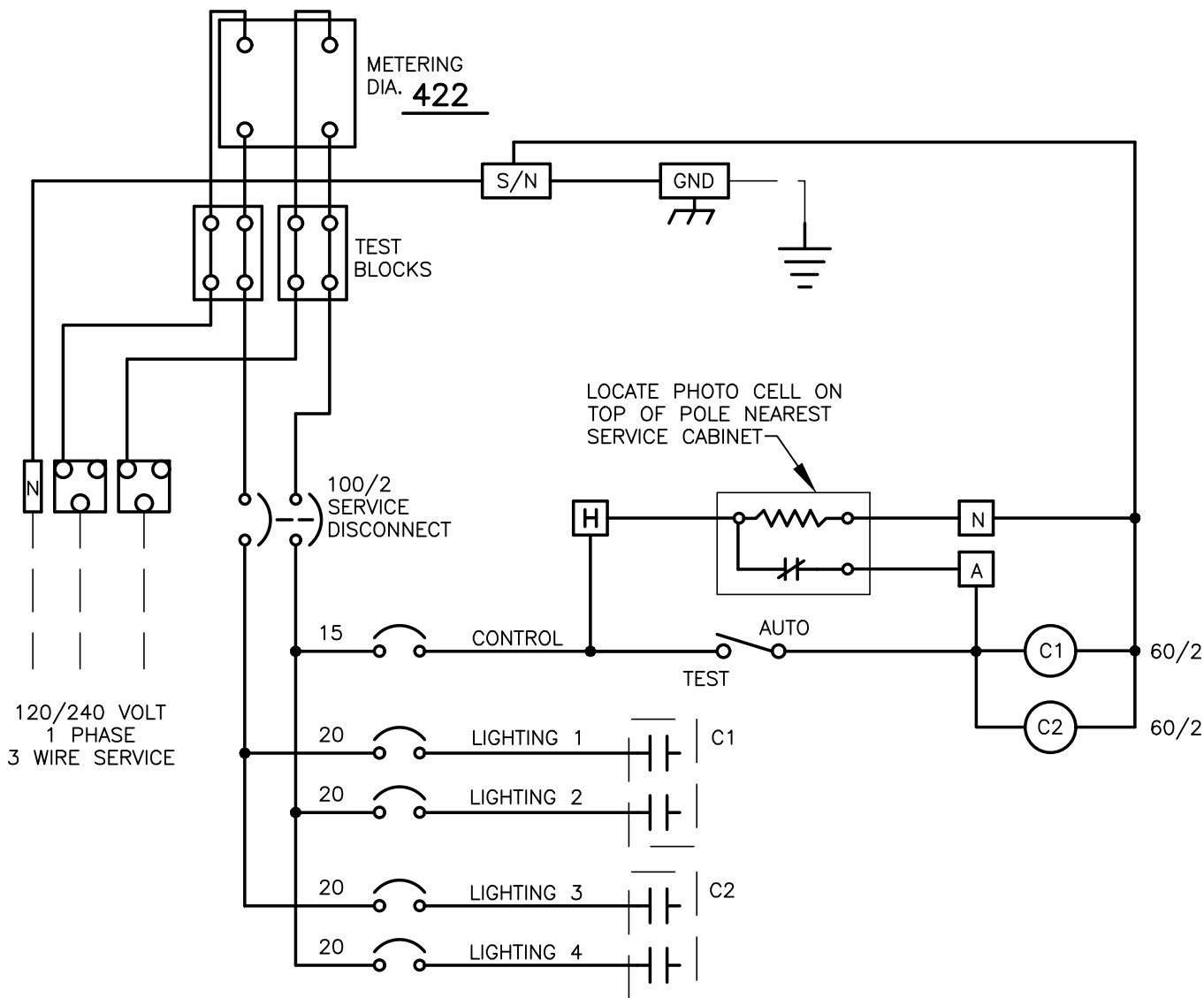
APPROVED DATE: 9/1/2021

CITY OF
Vancouver
WASHINGTON

STREET LIGHT
CONTACTOR CABINET

STANDARD PLAN
NUMBER

T21-15A



NOTE:

SEE DETAIL **T21-15A** FOR STREET LIGHT CONTACTOR DETAIL.

REV NO.	DATE	BY	APPR
1	8/04	RAW	AGE
2	3/06	RAW	AGE
3	2/07	RAW	AGE
4	8/08	RAW	AGE
5	1/15	RAW	CJC
6	9/21	RAW	CJC

PUBLIC WORKS – STREETS
AND TRANSPORTATION

APPROVED BY: *[Signature]*
TRAFFIC ENGINEER MANAGER

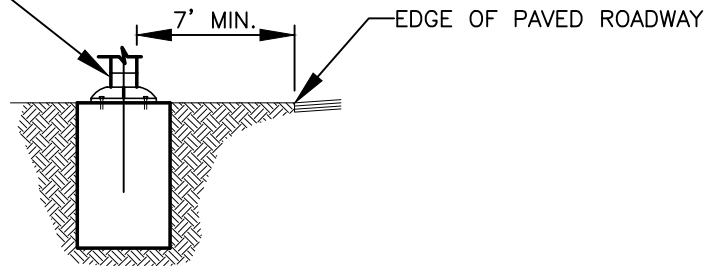
APPROVED DATE: 9/1/2021



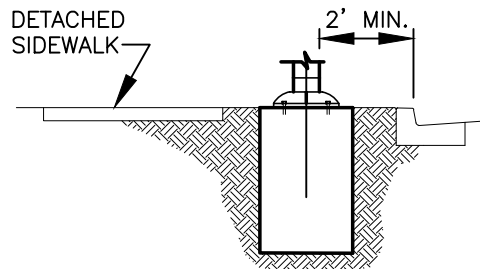
STREET LIGHTING
CONTRACTOR SERVICE
WIRING DIAGRAM

STANDARD PLAN
NUMBER
T21-15B

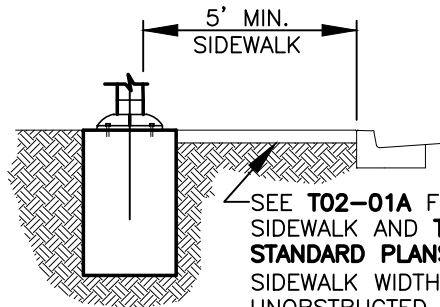
SEE **T21-02 TO T21-08** FOR
LIGHT POLE STANDARD (TYP.)



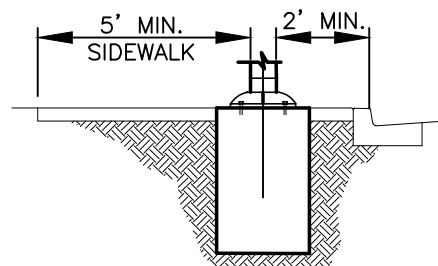
EDGE OF PAVEMENT (NO SIDEWALK)



DETACHED SIDEWALK WITH PLANTER STRIP



ATTACHED SIDEWALK OPTION 1



ATTACHED SIDEWALK OPTION 2
(REQUIRES ENGINEER'S
APPROVAL TO USE)

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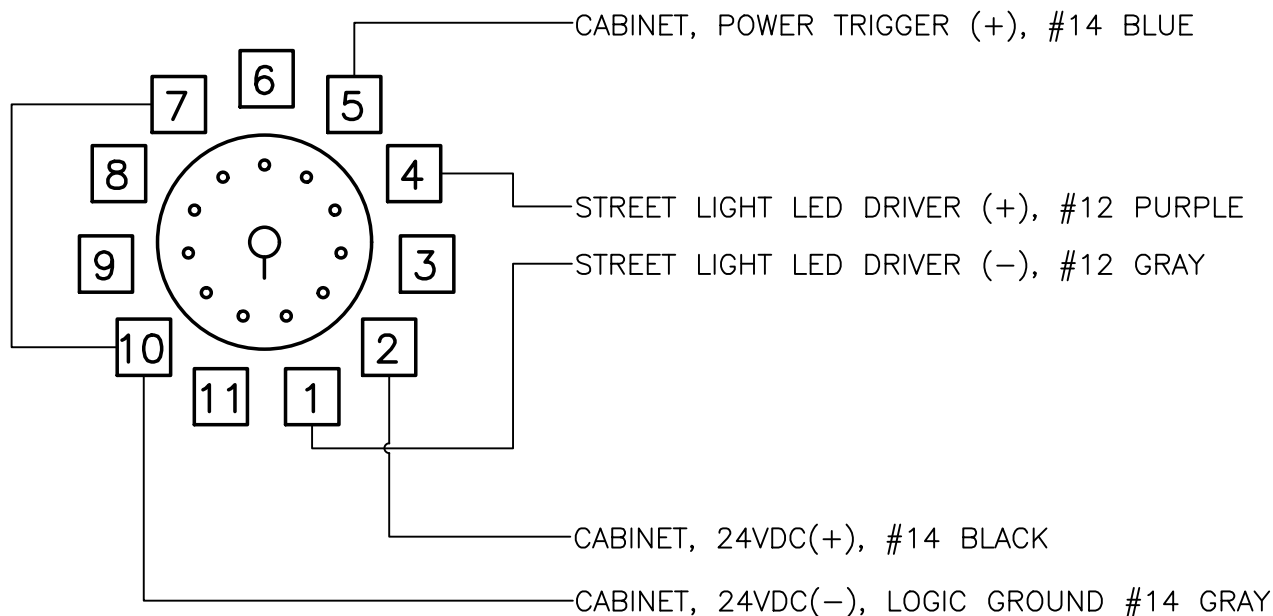
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1	1/15	RAW	CJC	
2	9/21	RAW	CJC	

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TRAFFIC ENGINEER MANAGER
APPROVED DATE: 9/1/2021

CITY OF
Vancouver
WASHINGTON

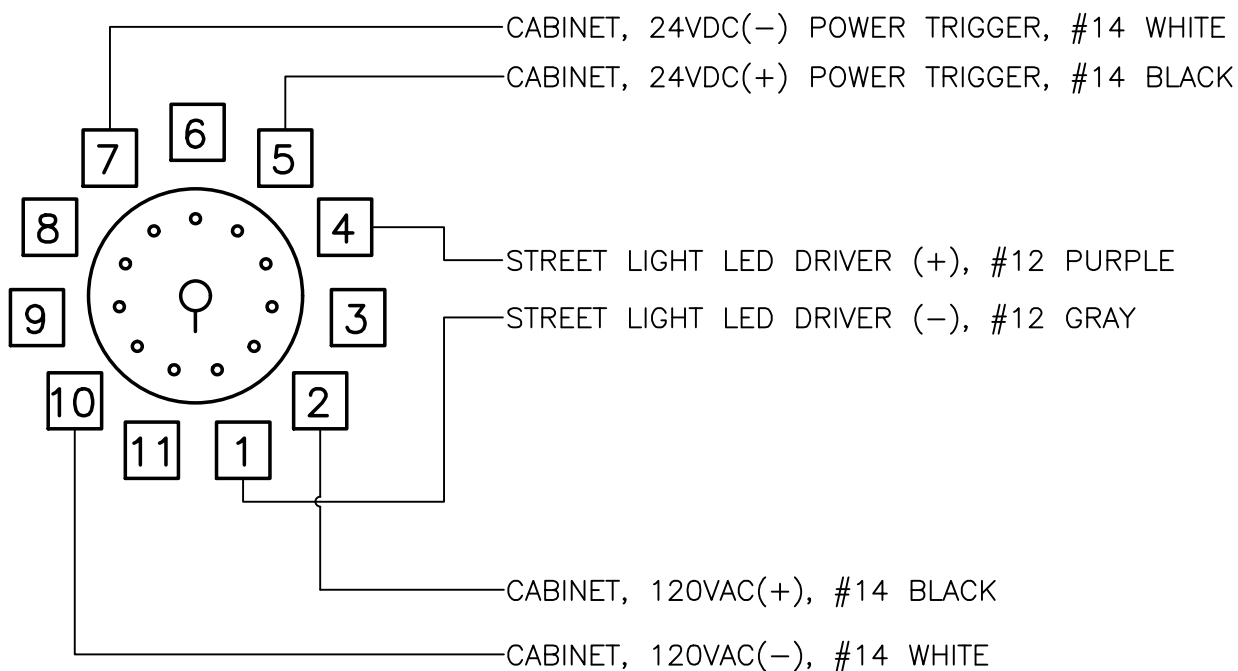
LIGHTING STANDARD
POSITION OPTIONS

STANDARD PLAN
NUMBER
T21-16



TIME DELAY RELAY, MACROMATIC TR-6192U WITH 11-PIN OCTAL SOCKET 70170-D, TO BE MOUNTED IN CONTROLLER CABINET.

TRAFFIC SIGNAL



TIME DELAY RELAY, MACROMATIC TR-6172U WITH 11-PIN OCTAL SOCKET 70170-D, TO BE MOUNTED IN CONTROLLER CABINET.

RRFB - AC POWERED

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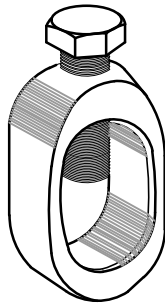
REV NO.	DATE	BY	APPR	PUBLIC WORKS - STREETS AND TRANSPORTATION
1	2/21	RAW	CJC	
2	9/21	RAW	CJC	

APPROVED BY: *[Signature]*
TRAFFIC ENGINEER MANAGER
APPROVED DATE: 9/1/2021



SAFETY LIGHTING
DIMMING CIRCUIT
DETAIL

STANDARD PLAN
NUMBER
T21-17



DIMENSIONS:

WIDTH (INCHES)	0.95
HEIGHT (INCHES)	2.19
SIZE (HEX) OR SIZE (BOLT)	3/8
SIZE (HEX) OR SIZE (BOLT)	0.38
B LENGTH (INCHES)	0.63

GENERAL:

PRODUCT DESCRIPTION
MECHANICAL GROUND ROD CLAMP
FOR CABLE TO ROD, HIGH STRENGTH,
10 AWG (SOL) – 1 AWG (STR), 5/8"
DRIVE ROD, 3/8" STUD.

CONDUCTORS:

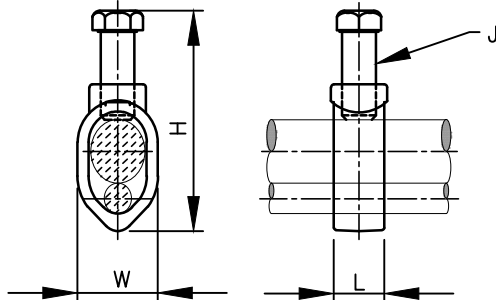
ROD SIZE (RANGE)	5/8 INCH
COPPER SOLID SIZE (RANGE)	10 AWG
COPPER STRANDED (RANGE)	12 AWG – 1 AWG

PHYSICAL:

PRODUCT MATERIAL: COPPER

APPROVALS/CERTIFICATIONS:

RATED FOR DIRECT BURIAL	Y
UL LISTED	Y
CSA CERTIFIED	Y
ROHS COMPATIBLE	COMPLIANT
UL RECOGNIZED	N
CULUS	N
INDUSTRY STANDARDS	RUS



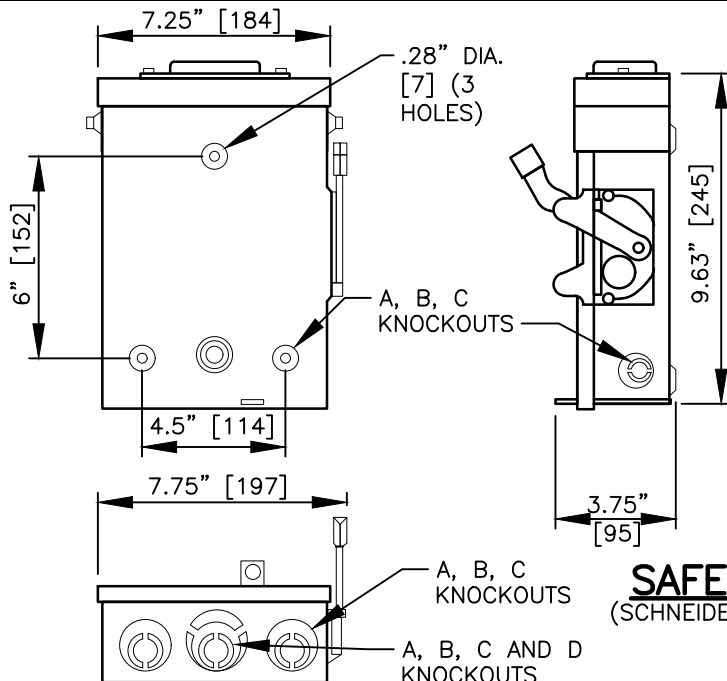
5/8 INCH GROUND ROD CLAMP



ROD DIAMETER (INCHES x LENGTH/(FT.))
5/8x8

THE POWER LINE HARDWARE GALVANIZED STANDARD GROUND ROD HAS A CORE OF AISI 1010-1029 HOT ROLLED CARBON STEEL. THE GROUND ROD IS CONE POINTED AND CHAMFERED ON THE END TO REDUCE "MUSHROOMING" DURING HAMMER DRIVEN INSTALLATION. HOT DIPPED GALVANIIZED GROUND ROD MUST MEET ASTM A 153 SPECIFICATIONS.

GROUND ROD



WIRING DIAGRAMS	
NOT FUSIBLE	
A	B

KNOCKOUTS				
SYMBOL	A	B	C	D
CONDUIT SIZE	0.50	0.75	1	1.25

APPROVED MATERIALS LIST:
SEE CITY OF VANCOUVER'S WEB SITE;
<http://www.cityofvancouver.us/publicworks/page/transportation-development-review-information>

SAFETY SWITCH BOX (SCHNEIDER ELECTRIC PART #DU222RB)

SEE STREET LIGHT DISCONNECT DETAIL T21-18B AND T21-18C FOR ADDITIONAL INFORMATION.

REV NO.	DATE	BY	APPR
1	2/21	RAW	CJC
2	9/21	RAW	CJC

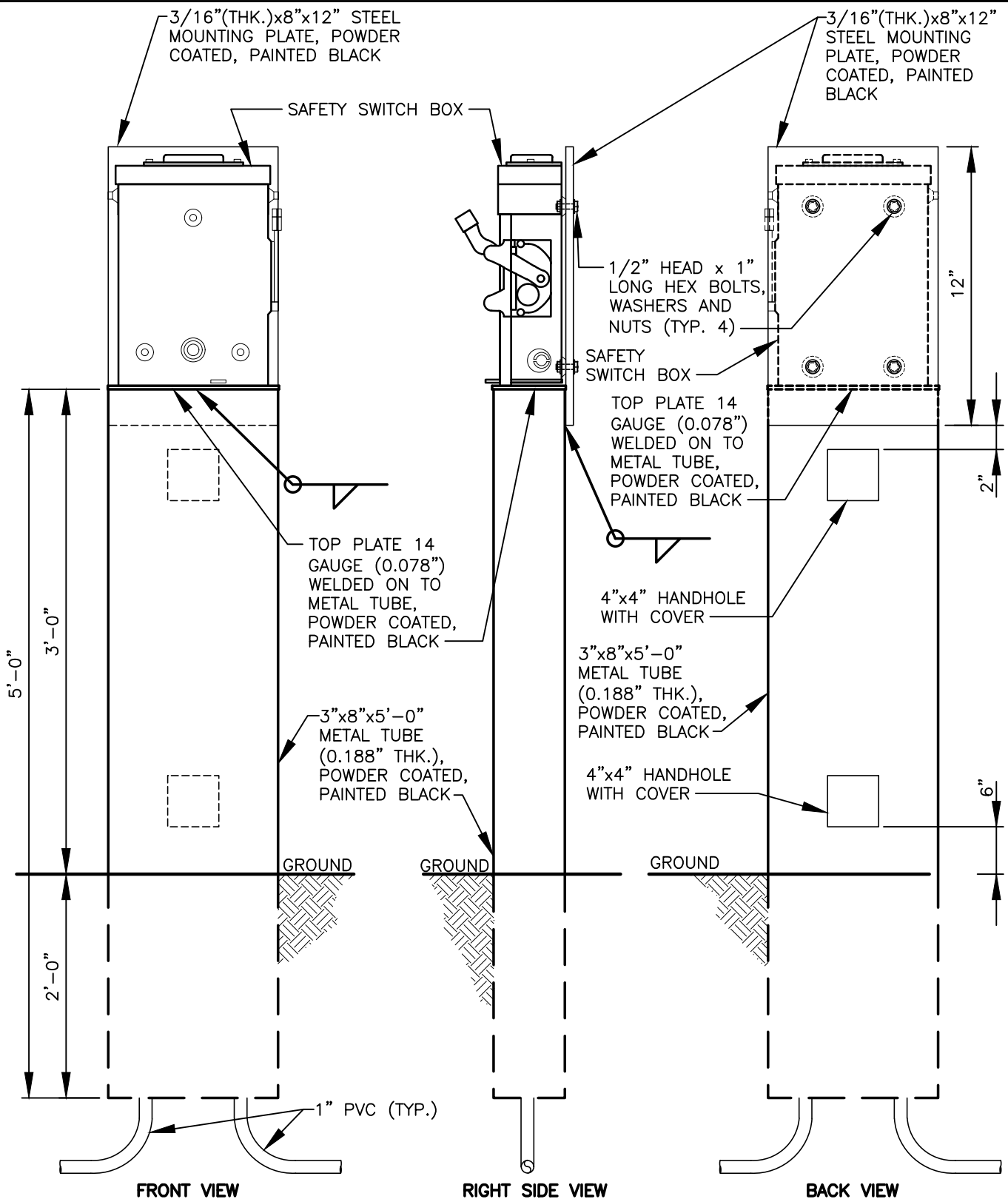
PUBLIC WORKS – STREETS AND TRANSPORTATION

APPROVED BY: *[Signature]*
TRAFFIC ENGINEER MANAGER
APPROVED DATE: 9/1/2021

CITY OF
Vancouver
WASHINGTON

STREET LIGHT
DISCONNECT
DETAIL

STANDARD PLAN
NUMBER
T21-18A



NOTES:

1. CONTRACTOR MUST BE UL APPROVED AND UL 508 CERTIFIED TO BUILD AND INSTALL.
2. SAFETY SWITCH BOX SHALL BE SCHNEIDER ELECTRIC PART #DU222RB OR APPROVED EQUAL.

REV NO.	DATE	BY	APPR
1	2/21	RAW	CJC
2	9/21	RAW	CJC

PUBLIC WORKS – STREETS AND TRANSPORTATION

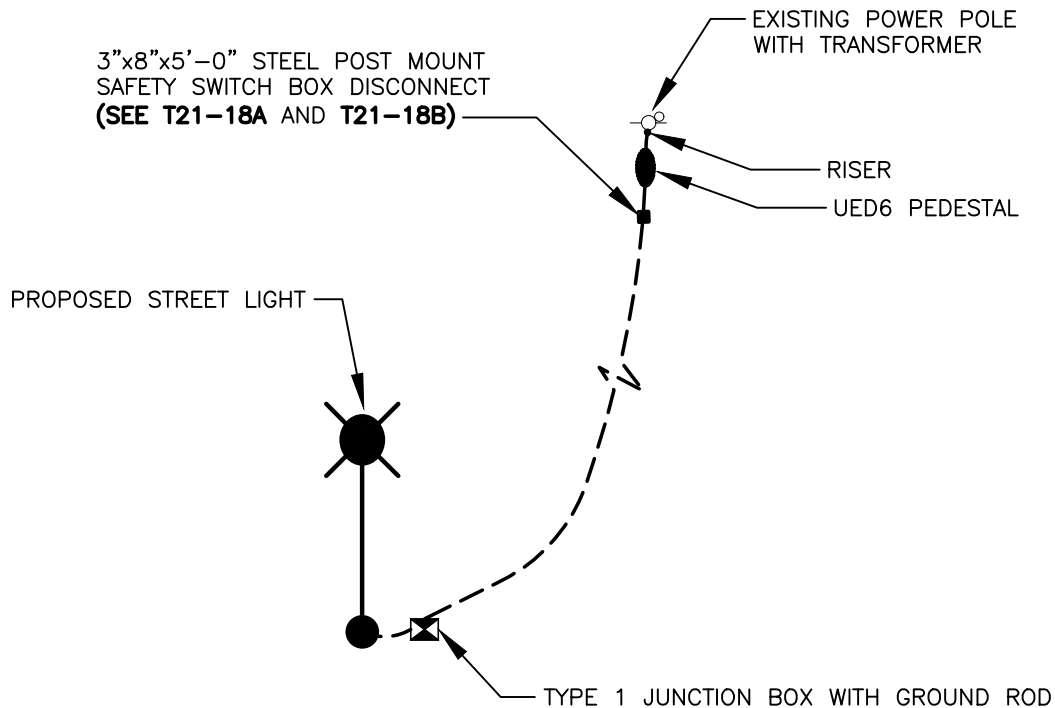
APPROVED BY: *[Signature]*
TRAFFIC ENGINEER MANAGER

APPROVED DATE: 9/1/2021

CITY OF
Vancouver
WASHINGTON

**STREET LIGHT
DISCONNECT
DETAIL**

**STANDARD PLAN
NUMBER**
T21-18B



GENERAL NOTES:

1. DISCONNECT NEEDS TO BE MOUNTED ON A 4X6 PRESSURE TREATED POST, BETWEEN 4' TO 5' ABOVE GROUND NEAR THE TRANSFORMER OR POWER PEDESTAL FROM WHICH THE SERVICE WILL BE GETTING POWER FROM.
2. INSTALL TYPE 1 J-BOX NEXT TO ALL STREET LIGHT POLES.
3. INSTALL GROUND ROD IN J-BOX NEXT TO LIGHT POLE.
4. 1 1/4" CONDUIT FOR ALL CONDUIT RUNS.
5. CONDUITS NEED TO BE RAN FROM TRANSFORMER/CPU PEDESTAL TO DISCONNECT, FROM DISCONNECT TO JBOX AND FROM JBOX TO LIGHT POLE. IF THERE ARE MORE THAN ONE STREET LIGHT ON THIS CIRCUIT, THE CIRCUIT NEEDS TO BE DAISY CHAINED FROM THE FIRST J-BOX NEAREST THE DISCONNECT.
6. ONLY STRANDED COPPER WIRE, NO ALUMINUM.

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REV NO.	DATE	BY	APPR
1	2/21	RAW	CJC
2	9/21	RAW	CJC

PUBLIC WORKS – STREETS
AND TRANSPORTATION

APPROVED BY: *[Signature]*
TRAFFIC ENGINEER MANAGER
APPROVED DATE: 9/1/2021



STREET LIGHT
DISCONNECT
DETAIL

STANDARD PLAN
NUMBER
T21-18C