90% DESIGN REVIEW OCTOBER 4, 2019

INDEX OF SHEETS DESCRIPTION SHEET NO. Title Sheet Index Of Sheets Cont'd. & Std. Dwg. Nos.

Project Site

Plans for Proposed Project Grading, Drainage, Structures, Paving, Striping,

Signing, Illumination & Roadside Development

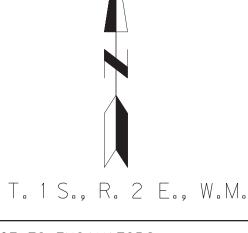
Errol Heights Street and Storm Drainage Improvements

SE Malden Drive (SE 45th Ave to SE 52nd Ave)
SE Nehalem Street (SE 46th Ave to SE Tenino Drive)
SE Tenino Drive (SE 45th Ave to SE Malden Drive)
SE Tenino Court (SE Tenino Drive to SE 52nd Ave)
SE 48th Ave (SE Malden Drive to SE Tenino Drive)
SE 49th Ave (SE Malden Drive to SE Tenino Court)
SE 45th Ave SE 45th Ave SE Harney Drive SE 52nd Ave

Multnomah County October 2019

PORTLAND Errol Heights MBERT Eastmoreland LAMBERT MULTNOMAH CLACKAMAS Brookwild BARBA ST. Willsburg Junction Ardenwald Ardenwald

LOCATION MAP FEET



RULES ARE ALSO LOCATED AT WWW.DIGSAFELYOREGON.COM NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987.

POTENTIAL UNDERGROUND FACILITY OWNERS

Dig Safely.

Website: http://www.callbeforeyoudig.org/ Call the Oregon One-Call Center DIAL 811 or 1-800-332-2344

EMERGENCY TELEPHONE NUMBERS

NW NATURAL GAS M-F 7am-6pm 503-226-4211 Ext.4313 503-226-4211 AFTER HOURS 503-464-7777 1-800-573-1311 CENTURYLINK BUREAU OF TRANS./MAINT. OPERATIONS 503-823-1700 CITY WATER

VERIZON

503-823-4874 1-800-483-1000

Portland, OR 97204 O: 503.227.3251 F: 503.224.4681 www.kpff.com

Errol Heights Street and Storm Drainage Improvements

Cover Sheet

T00526.D42 SHEET NO.

1s2e19

111 SW Fifth Ave., Suite 2500

THEN DRAWING IS

WARNING

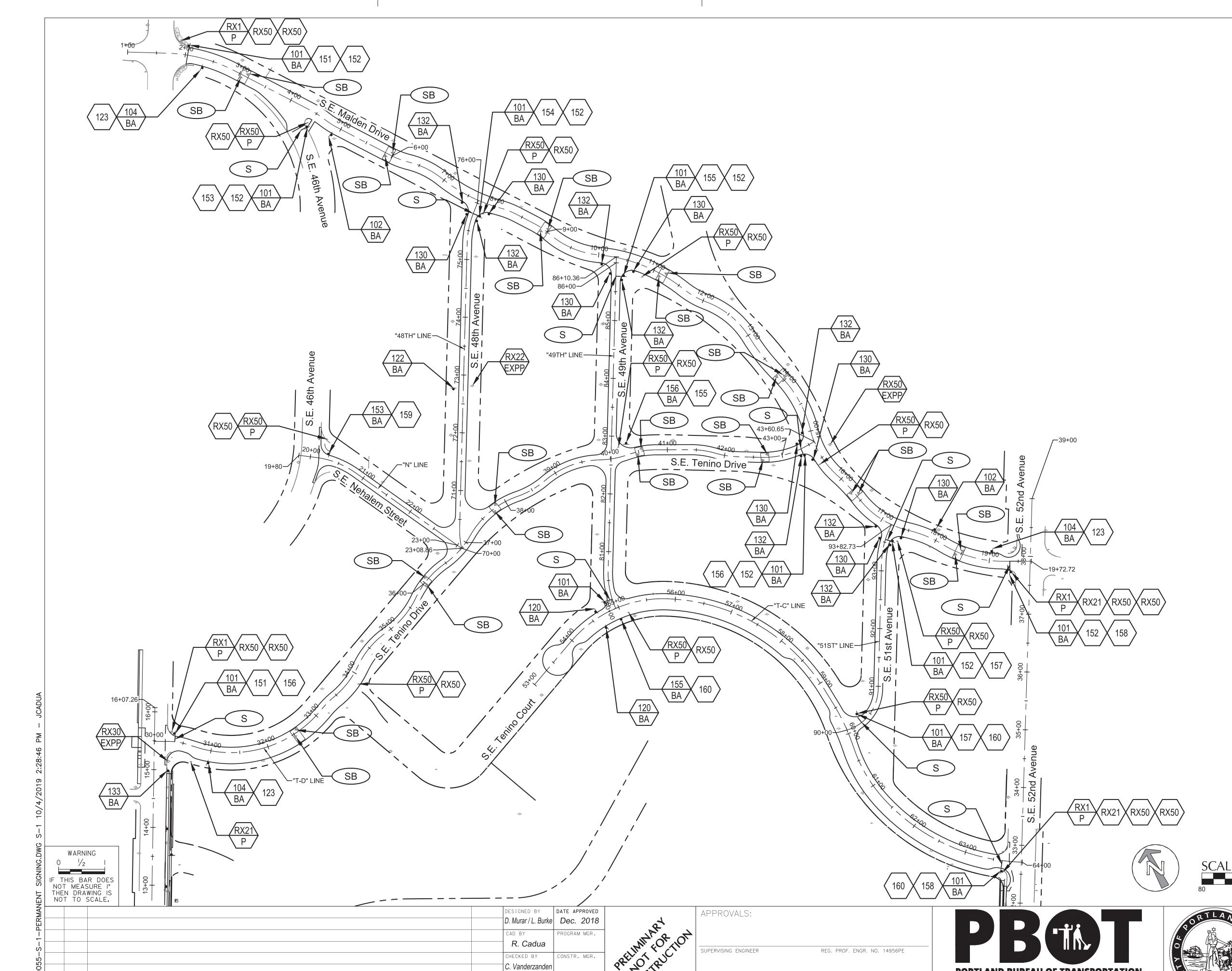
THIS BAR DOES

NOT MEASURE

NOT TO SCALE. D. Murar / L. Buri IV. ENGINEEF AD BY R. Cadua HECKED BY . Vanderzande NO. DATE DESCRIPTION APPD. REVISION

APPROVALS: UPERVISING ENGINEER REG. PROF. ENGR. NO. 14956PE ITY ENGINEER REG. PROF. ENGR. NO. 51538PE

PORTLAND BUREAU OF TRANSPORTATION **CHLOE EUDALY** COMMISSIONER CITY ENGINEER STEVE TOWNSEN, P.E.



CITY ENGINEER

NO. DATE

DESCRIPTION

REVISION

APPD.

Signing Notes:

- 1.) Refer to traffic sign bubble legend shown on sheet S-3.
- 2.) Refer to traffic sign number legend shown on sheets S-3 and S-4.
- 3.) Contractor to coordinate with TriMet to relocate sign.

Striping Notes:

- 1.) Refer to City of Portland Standard Drawing No. P-435 and Oregon Department of Transportation Standard Drawing No. TM503 for pavement marking blocks.
- 2.) All legends, symbols, arrows and transverse line work shall be Type "B-HS" thermoplastic.



111 SW Fifth Ave., Suite 2500 Portland, OR 97204 O: 503.227.3251 F: 503.224.4681 www.kpff.com

Errol Heights Street and Storm Improvements

1s2e19
PROJECT NO.
T00526.D42

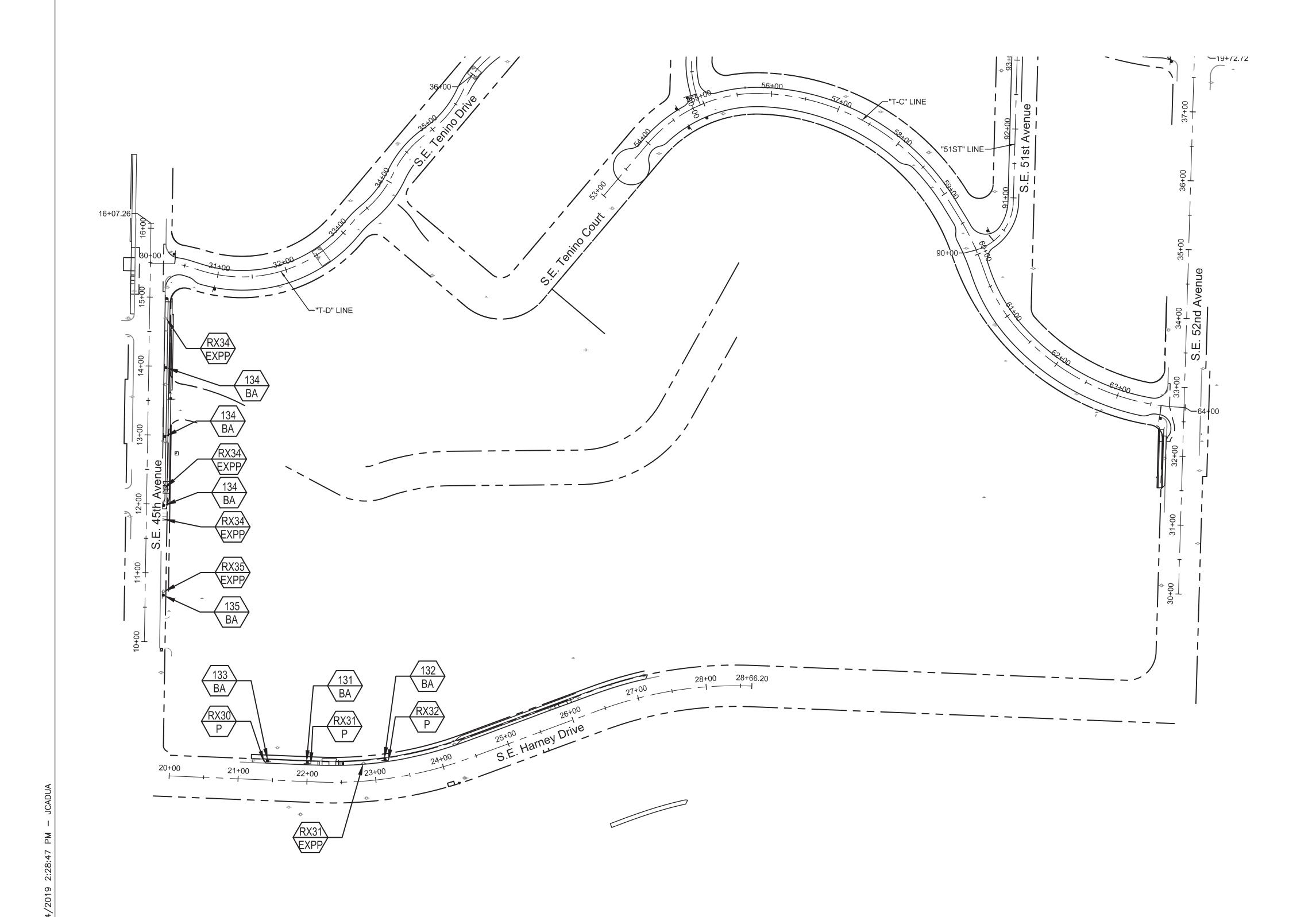
Permanent Signing and Striping Plan

CHLOE EUDALY

STEVE TOWNSEN, P.E.

REG. PROF. ENGR. NO. 51538PE

COMMISSIONER CITY ENGINEER S-1



Signing Notes:

- 1.) Refer to traffic sign bubble legend shown on sheet S-3.
- 2.) Refer to traffic sign number legend shown on sheets S-3 and S-4.
- 3.) Contractor to coordinate with TriMet to relocate sign.





111 SW Fifth Ave., Suite 2500 Portland, OR 97204 O: 503.227.3251 F: 503.224.4681 www.kpff.com

DATE APPROVED D. Murar / L. Burke Dec. 2018 CAD BY PROGRAM MGR. R. Cadua CONSTR. MGR. CHECKED BY C. Vanderzanden

APPD.

WARNING

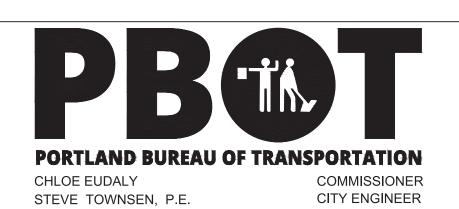
IF THIS BAR DOES NOT MEASURE I" THEN DRAWING IS NOT TO SCALE.

NO. DATE

DESCRIPTION

REVISION

APPROVALS: SUPERVISING ENGINEER REG. PROF. ENGR. NO. 14956PE CITY ENGINEER REG. PROF. ENGR. NO. 51538PE





	Ε	rrol Hei	ights
9	Street and	Storm I	Improvemer

Permanent Signing and Striping Plan

PROJECT NO. T00526.D42 SHEET NO. S-2

1s2e19

Install new sign (N)

N M

Install new sign (N) on sign support

Install new sign (N) on existing sign support (M)

EXM/

RIN

Reinstall existing sign (N)



Remove and save existing sign (N) on new sign support (M)



Reinstall existing sign (N) and reinstall existing sign support (M)



Remove existing sign



Remove existing sign (N) and sign support (M)

Remove and save existing sign (N)



Remove and save existing sign (N) and remove sign support (M)



Remove existing sign (N) and maintain and protect existing sign support (M)



Remove and save existing sign (N) and protect existing sign support (M)



Remove and save existing sign (N) and remove and save existing sign support (M)



Remove existing sign support (M)



Install sign support (M) only



Maintain existing sign (N) and support

N = Sign Number. See "Traffic Signs" Legend for numbers M = Material for Pole or Post

Material Options are:

BA = Breakaway Post in Ground

BD = Breakaway Post on Concrete

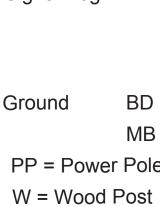
LP = Light Pole P = Pipe Post

UP = Utility Pole

PP = Power Pole

SP = Signal Pole

MB = Modified Bike Rack



Traffic Sign Number Legend

MPH

W4020

W13-1

18" X 18"

Sign No. 22



R1010 R1-1 30" X 30" Sign No. 1

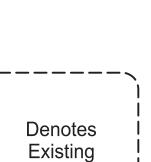
[street name]

G5500 Varies X 6"

Sign No. 50

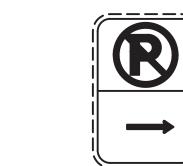


R2010 30" X 36" Sign No. 2





W3780 24" X 24" Sign No. 21



P1000R 12" X 18" Sign No. 30



P1000D 12" X 18" Sign No. 31



90% DESIGN REVIEW

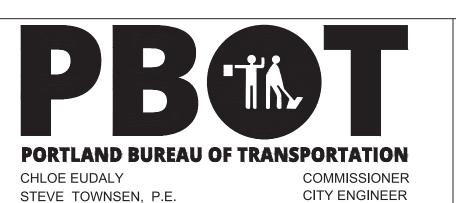
OCTOBER 4, 2019

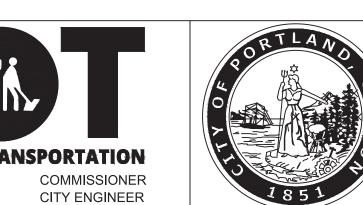
P1000L 12" X 18" Sign No. 32

WARNING 0 1/2 THIS BAR DOES NOT MEASURE THEN DRAWING IS NOT TO SCALE.

DATE APPROVED D. Murar / L. Burke Dec. 2018 CAD BY ROGRAM MGR. R. Cadua CONSTR. MGR. CHECKED BY C. Vanderzanden NO. DATE DESCRIPTION APPD. REVISION

APPROVALS: SUPERVISING ENGINEER REG. PROF. ENGR. NO. 14956PE CITY ENGINEER REG. PROF. ENGR. NO. 51538PE



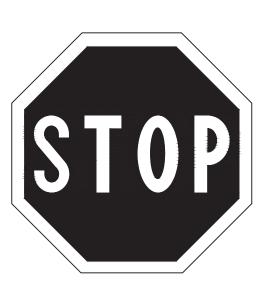


Portland, OR 97204 O: 503.227.3251 F: 503.224.4681 www.kpff.com Errol Heights
Street and Storm Improvements 1s2e19

Signing Legends

PROJECT NO. T00526.D42 SHEET NO. S-3

111 SW Fifth Ave., Suite 2500



R1010 R1-1 30" X 30" Sign No. 101



R2015 30" X 36" Sign No. 102



S2090 R9-3A 18" X 18" Sign No. 103



P3995 R3-17A 30" X 12" Sign No. 104



W3700 W4-1 24" X 24"

W4020 W13-1 18" X 18" Sign No. 120 Sign No. 122



W2610 30" X 30" Sign No. 123



P1000R 12" X 18" Sign No. 130



P1000D 12" X 18" Sign No. 131



P1000L 12" X 18" Sign No. 132



P1190R 12" X 18" Sign No. 133

B 10PM-5AM ALL DAYS P1190D

12" X 18" Sign No. 134



P1190L 12" X 18" Sign No. 135

45th SE A٧

> G5501 36" X 6" Sign No. 152 G5501 30" X 6" Sign No. 151

SE **Malden** Dr SE

Sign No. 158

G5501 30" X 6" Sign No. 153

46th

A۷

15

MPH

48thSE A۷

> G5501 30" X 6" Sign No. 154

49_{th} SE A٧

> G5501 30" X 6" Sign No. 155

Tenino SE Dr

G5501 36" X 6"

Sign No. 156

51st SE A۷

Sign No. 157

G5501 30" X 6" G5501 30" X 6"

SE

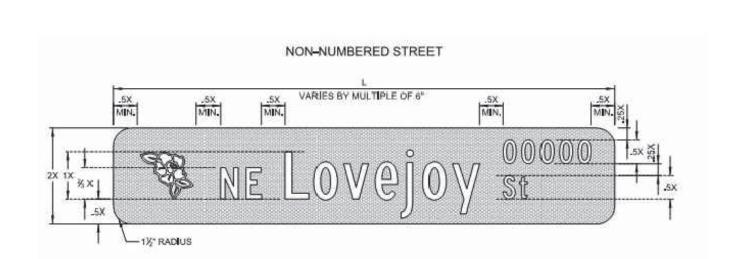
52nd Av

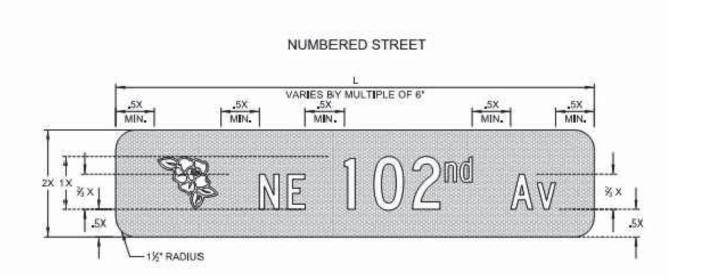
G5501 36" X 6" Sign No. 159

SE Nehalem St

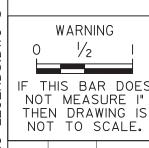
Tenino Ct

G5501 36" X 6" Sign No. 160





STREET NAME SIGN DATA TABLE						
Sign No.	Street Name	Block No.	Quantity			
151	SE 45th Ave	-	2			
152	SE Malden Dr	4500, 4600, 4800, 4900, 5100, 5200	8			
153	SE 46th Ave	-	2			
154	SE 48th Ave	_	1			
155	SE 49th Ave	_	3			
156	SE Tenino Dr	4500, 4900	3			
157	SE 51st Ave	-	2			
158	SE 52nd Ave	_	3			
159	SE Nehalem St	4600	1			
160	SE Tenino Ct	4900, 5100, 5200	2			



Dec. 2018 D. Murar / L. Burke ROGRAM MGR. CAD BY R. Cadua CONSTR. MGR. CHECKED BY C. Vanderzander NO. DATE DESCRIPTION APPD. REVISION

APPROVALS: SUPERVISING ENGINEER REG. PROF. ENGR. NO. 14956PE CITY ENGINEER REG. PROF. ENGR. NO. 51538PE





Errol Heights
Street and Storm Improvements

Signing Legends

PROJECT NO. T00526.D42 SHEET NO. S-4

111 SW Fifth Ave., Suite 2500 Portland, OR 97204 O: 503.227.3251 F: 503.224.4681 www.kpff.com 1s2e19

· INSTALL _____ W LED LUMINARIE, TYPE ____ DISTRIBUTION

EXISTING UTILITY POLE

INSTALL (L) FT LUMINAIRE STREET LIGHT ARM

EXISTING STREETLIGHT

- INSTALL (L) FT CLASS 2 TREATED WOOD POLE

- INSTALL PHOTOELECTRIC RELAY

NO.	DATE	DESCRIPTION	APPD.		
5				*	*
3				CHECKED BY	INTER. NUMBER
5				M. Goins	P. Koonce
2					DIV. ENGINEER
/7				M. Goins	XXX XXXX
					DATE APPROVED

APPROVALS:	
PRINCIPAL ENGINEER	REG. PROF. ENGR. NO. 53882PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE





Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr

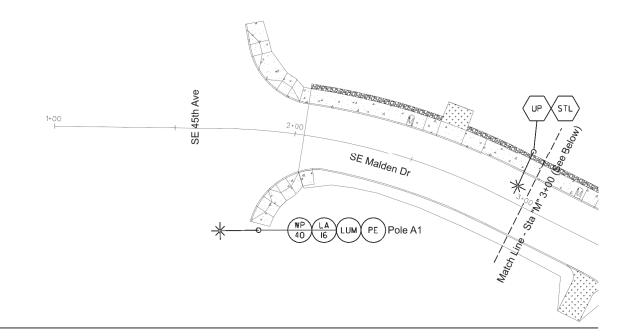
Illumination Legend

1s2e19 T00526 HEET NO.

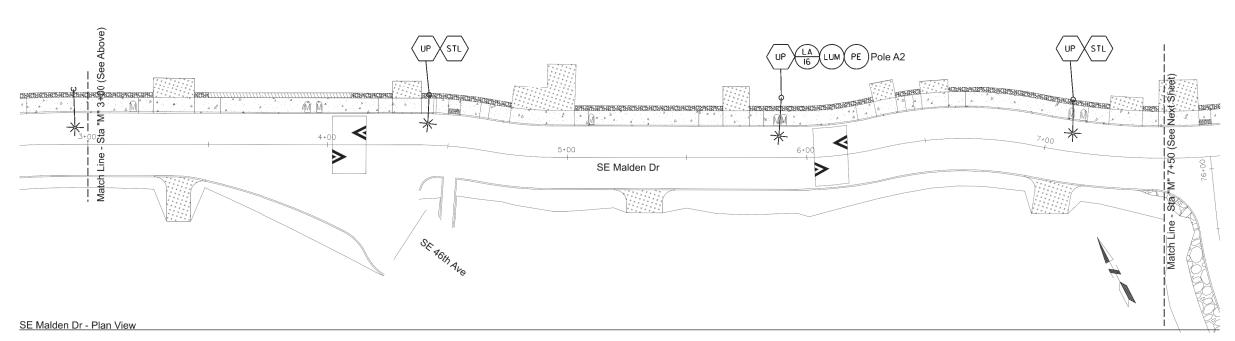


SE MALDEN DR AT SE 45TH AVE

POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT)
Al	7659343.96', 663730.65'	270	41	4500	30
Δ2	7659827.00', 663566.21'	180	29	3000	30



SE Malden Dr - Plan View



			A F. M. G. L. G. L			
₫	NO.	DATE	DESCRIPTION	APPD.		
+0					*	*
.DQ					CHECKED BY	INTER. NUMBER
÷.					M. Goins	P. Koonce
o l					CAD BY	DIV. ENGINEER
1/2					M. Goins	XXX XXXX
99						DATE APPROVED

APPROVALS:	
PRINCIPAL ENGINEER	REG. PROF. ENGR. NO. 53882PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE

PB C	TRANSPORTATION
CHLOE EUDALY	COMMISSIONER
STEVE TOWNSEN P.E.	CITY ENGINEER

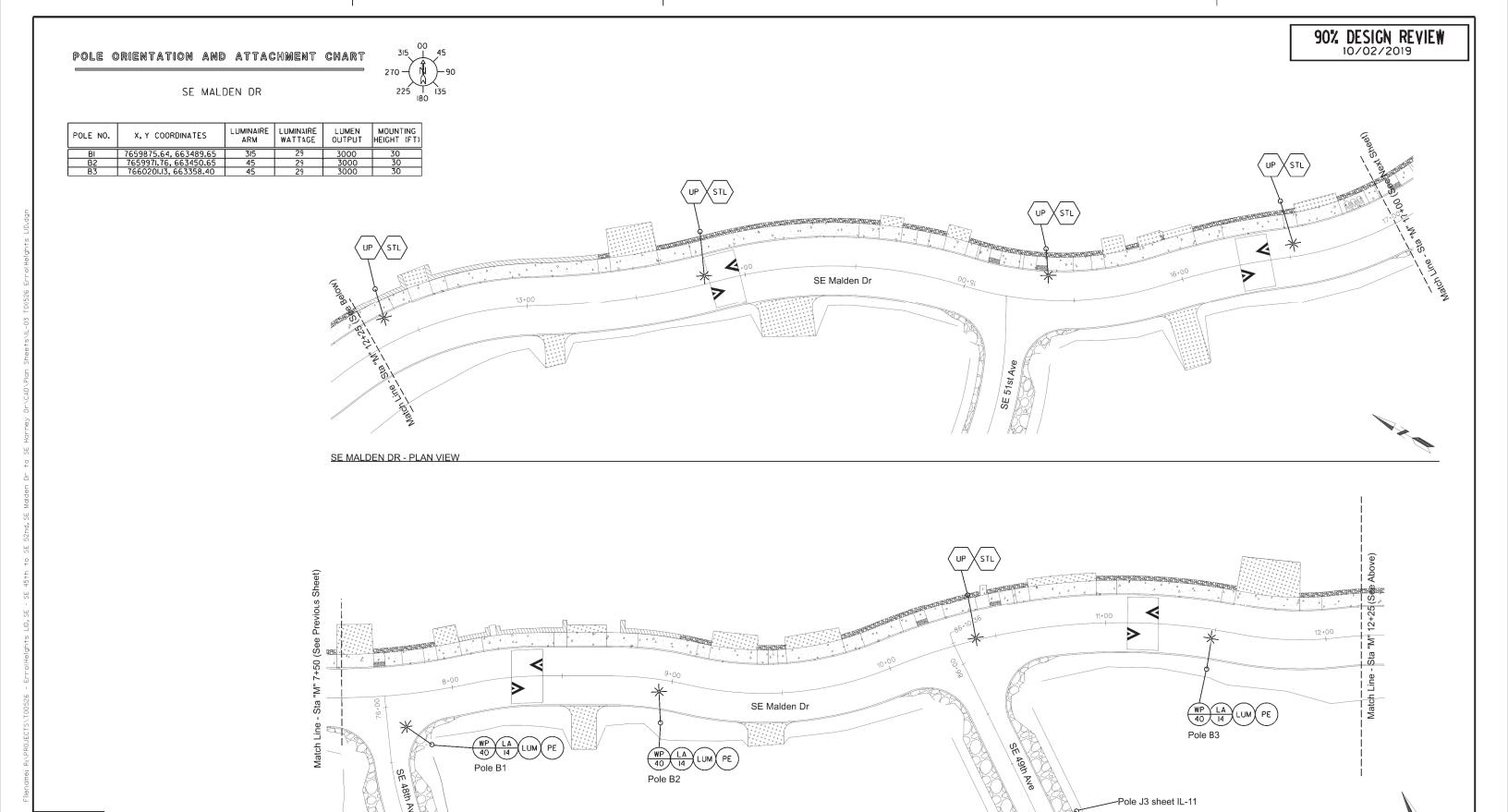


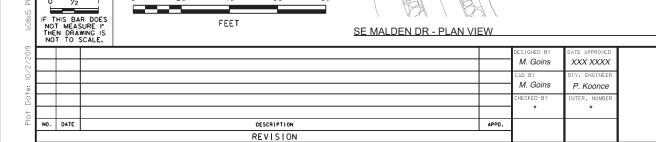
Errol Heights LID, SE - SE 45th to SE 52nd,	_
SE Malden Dr to SE Harney Dr	

Illumination Plan

SE Malden Dr

T00526 IL-02





WARNING 1/2







Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr

Illumination Plan

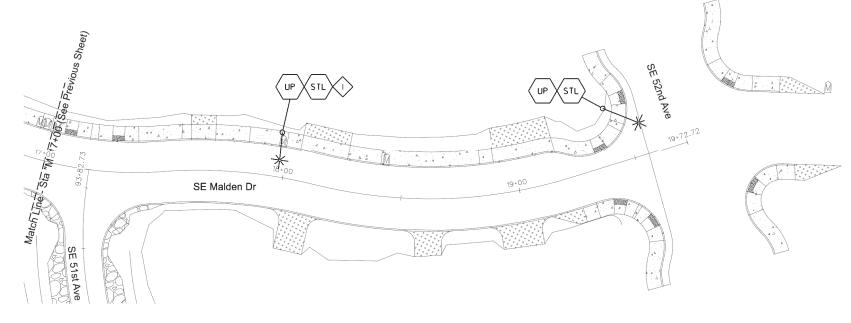
SE Malden Dr

1/4 SECTION
152e19
PROJECT NO.
T00526
SHEET NO.

CONSTRUCTION NOTES

 $\langle 1 \rangle$

Relocate existing pole behind sidewalk, and replace luminaire arm to maintain current luminaire placement, by others.



SE MALDEN DR - PLAN VIEW

WARNING

O 1/2

IF THIS BAR DOES
NOT MEASURE I'
THEN DRAWING IS
NOT TO SCALE.

			05.416.104			
₫	NO.	DATE	DESCRIPTION	APPD.		
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.DQ					CHECKED BY	INTER. NUMBER
÷					M. Goins	P. Koonce
<u>0</u>						DIV. ENGINEER
.72/					M. Goins	XXX XXXX
2016						DATE APPROVED

APPROVALS:	
PRINCIPAL ENGINEER	REG. PROF. ENGR. NO. 53882PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE

PORTLAND BUREAU OF TRANSPORTATION
CHIOE EUDALY
STEVE TOWNSEN, P.E.
COMMISSIONER
CITY ENGINEER

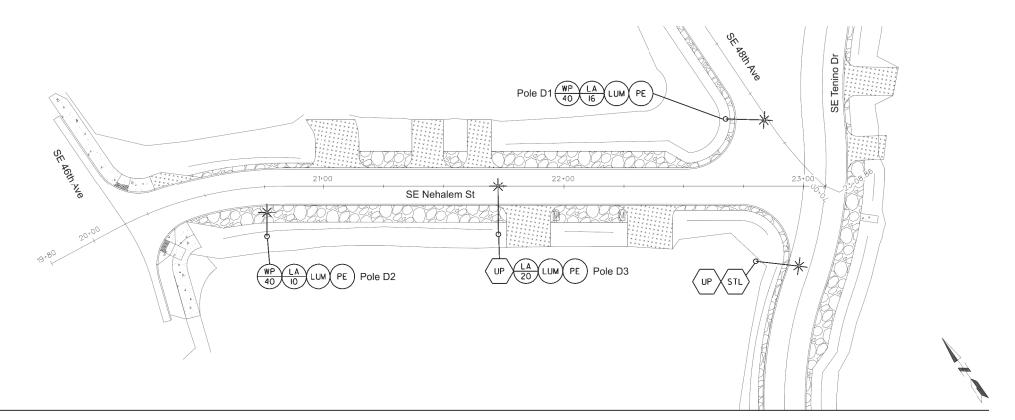


Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr

Illumination Plan

SE Malden Dr & SE 52nd Ave

1s2e19
PROJECT NO.
T00526

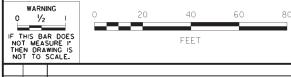


SE NEHALEM ST - PLAN VIEW

POLE ORIENTATION AND ATTACHME

RIENTATION	AND	ATT	ACHMENT	CHART	315 45
SE NEHALEM	ST A	T SE	46TH AVE		270 - 11 135

POLE NO.	X, Y COORDINATES	LUMINAIRE AFM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT
DI	7659635.76, 663035.15	45	29	3000	30
D2	7659714.99, 662979.81	45	41	4500	30
D.3	7650020 20 662064 20	136	20	3000	30



			REVISION			
₫	NO.	DATE	DESCRIPTION	APPD.		
+				·	*	*
Dat					CHECKED BY	INTER. NUMBER
φ. 					M. Goins	P. Koonce
o l						DIV. ENGINEER
2/					M. Goins	XXX XXXX
2						DATE APPROVED

APPROVALS:	
PRINCIPAL ENGINEER	REG. PROF. ENGR. NO. 53882PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE





Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr

Illumination Plan

SE Nehalem St

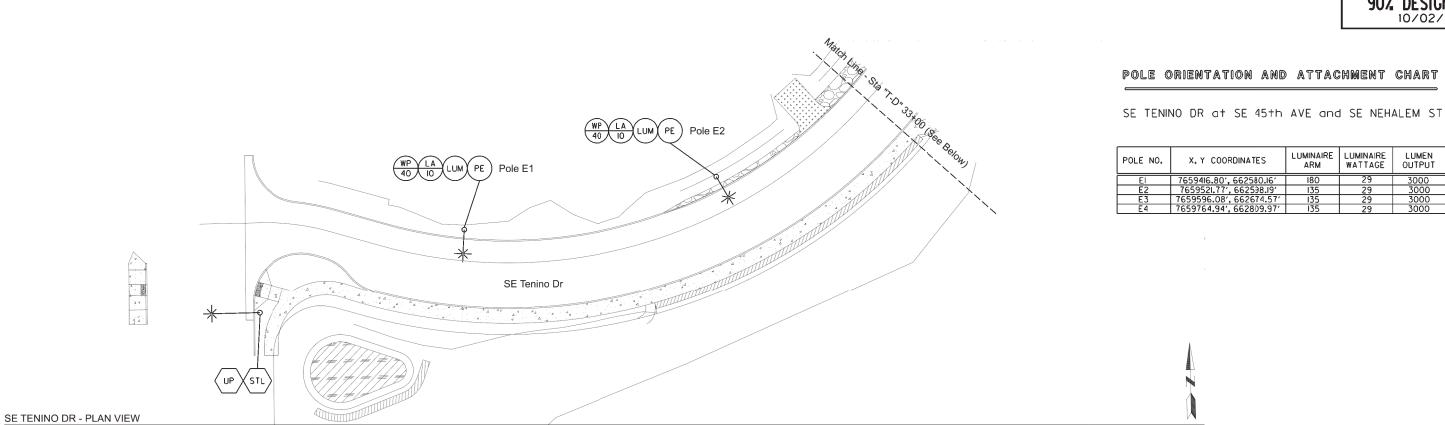
1s2e19 T00526

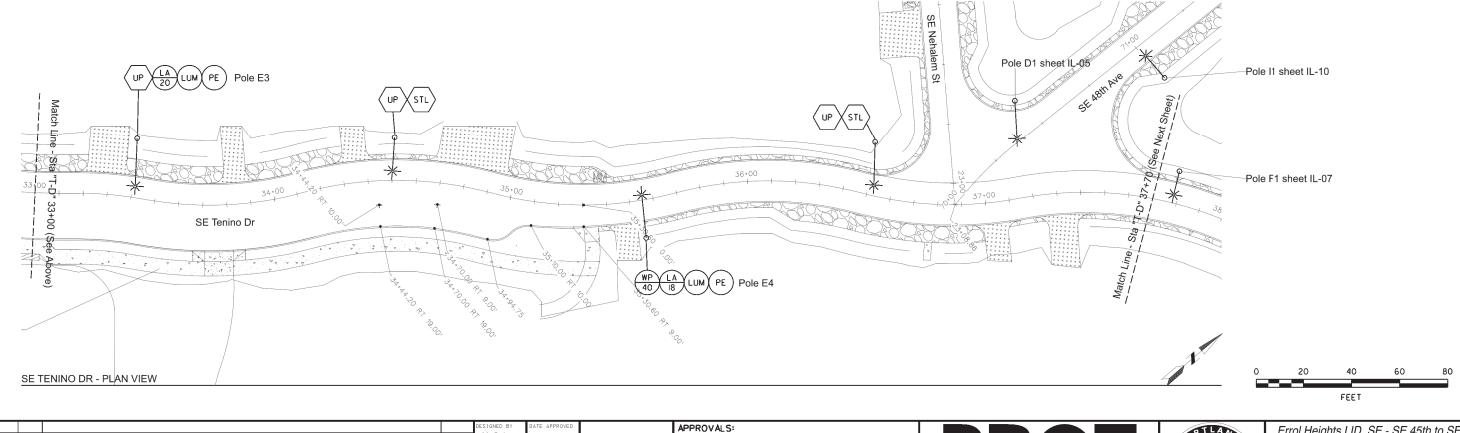
LUMEN OUTPUT

MOUNTING HEIGHT (FT)

LUMINAIRE WATTAGE

LUMINAIRE ARM





M. Goins

M. Goins

APPD.

DESCRIPTION

REVISION

XXX XXXX

P. Koonce

PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E. COMMISSIONER CITY ENGINEER

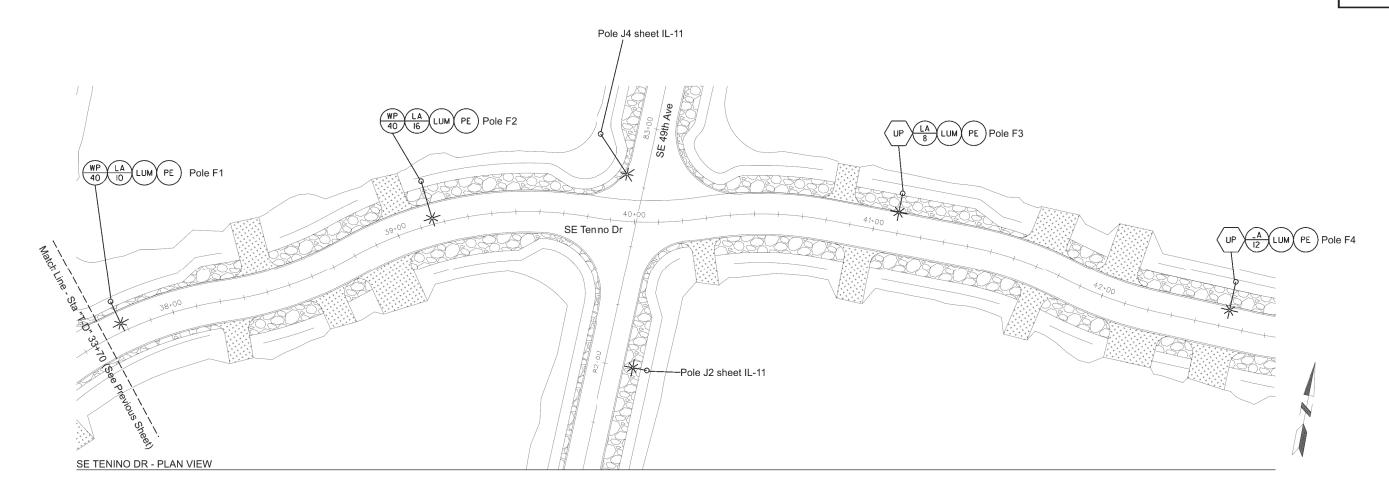
Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr

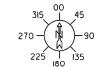
Illumination Plan

SE Tenino Dr

1s2e19 T00526

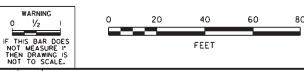
WARNING
O 1/2
IF THIS BAR DOES
NOT MEASURE IT
THEN DRAWING IS
NOT TO SCALE.





SE TENINO DR AT SE 49TH AVE

POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT)
FI	7659887.07, 662997.37	135	29	3000	30
F2	7660004.68, 663071.36	135	29	3000	30
F3	7660202.73, 663104.23	180	41	4500	30
E /	7660346 02 663003 00	100	41	4500	30



2019						DATE APPROVED
.5/2					M. Goins	XXX XXXX
0						DIV. ENGINEER
9					M. Goins	P. Koonce
.DQ					CHECKED BY	INTER. NUMBER
+0					*	*
Ē	NO.	DATE	DESCRIPTION	APPD.		
			REVISION			

APPROVALS:	
PRINCIPAL ENGINEER	REG. PROF. ENGR. NO. 53882PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE





Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr

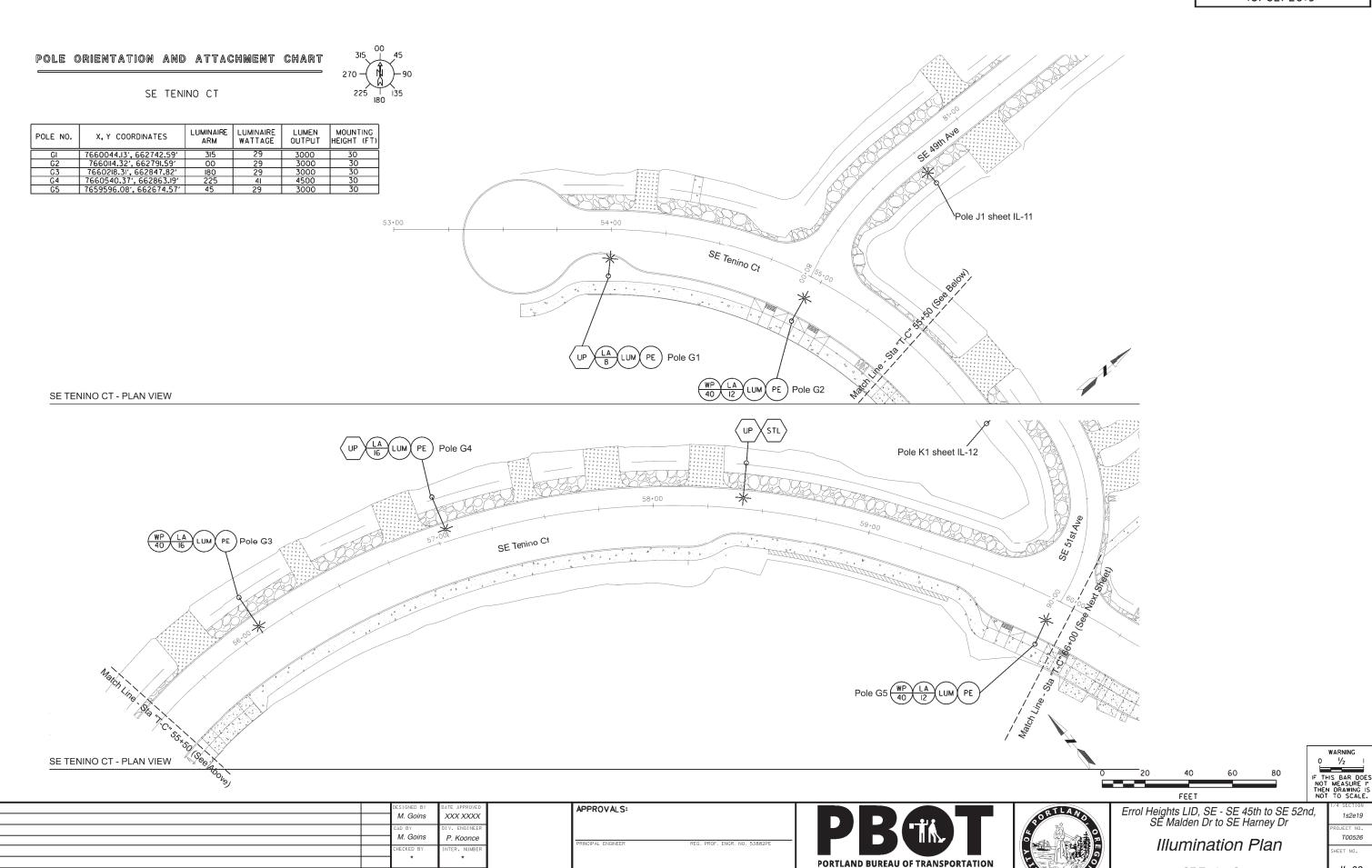
Illumination Plan

SE Tenino Drive

1/4 SECTION
152e19
PROJECT NO.
T00526
SHEET NO.

IL-08

SE Tenino Court



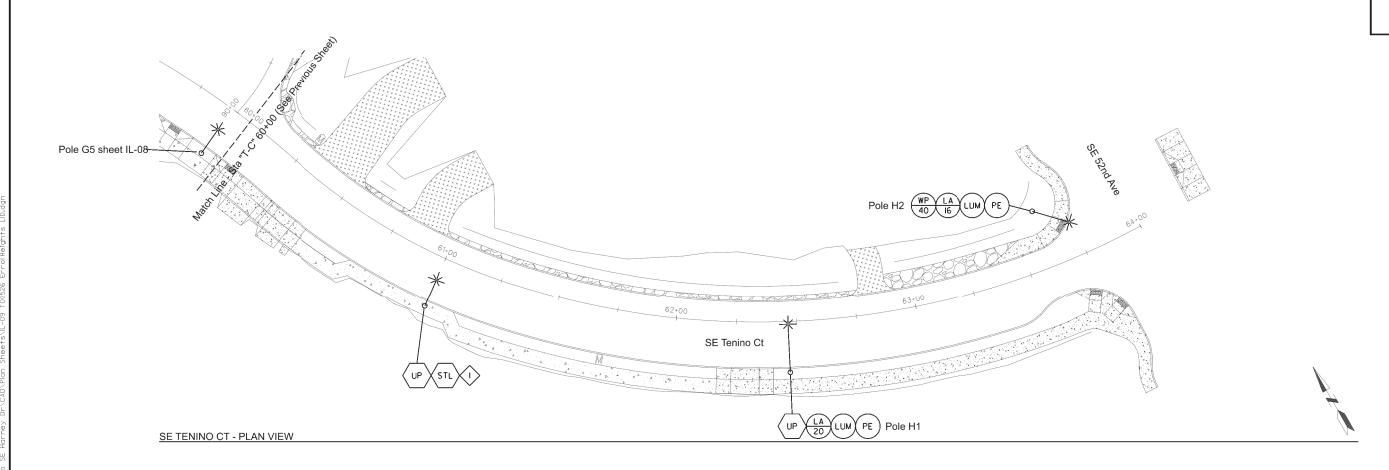
CHLOE EUDALY STEVE TOWNSEN, P.E. COMMISSIONER CITY ENGINEER

REG. PROF. ENGR. NO. 51538PE

DESCRIPTION

REVISION

APPD.



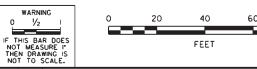
315 00 45 270 N 90 225 135

SE TENINO CT at SE 52ND AVE

POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT)
HI	7660649.89', 662393.02'	45	29	3000	30
H2	7660771.32′, 662401.78′	135	41	4500	30

CONSTRUCTION NOTES

Relocate pole behind sidewalk, replacing luminaire arm to maintain current luminaire position, by others.



			PEVISION			
₫	NO.	DATE	DESCRIPTION	APPD.		
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.DQ					CHECKED BY	INTER. NUMBER
9					M. Goins	P. Koonce
o l					CAD BY	DIV. ENGINEER
/2/					M. Goins	XXX XXXX
2019						DATE APPROVED

APPROVALS:	
PRINCIPAL ENGINEER	REG. PROF. ENGR. NO. 53882PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE





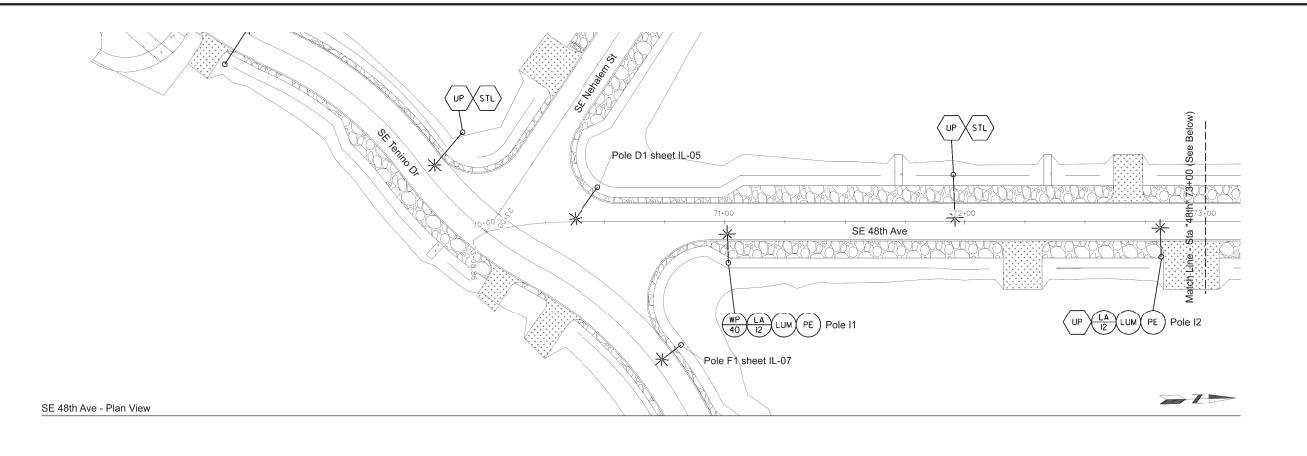
Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr

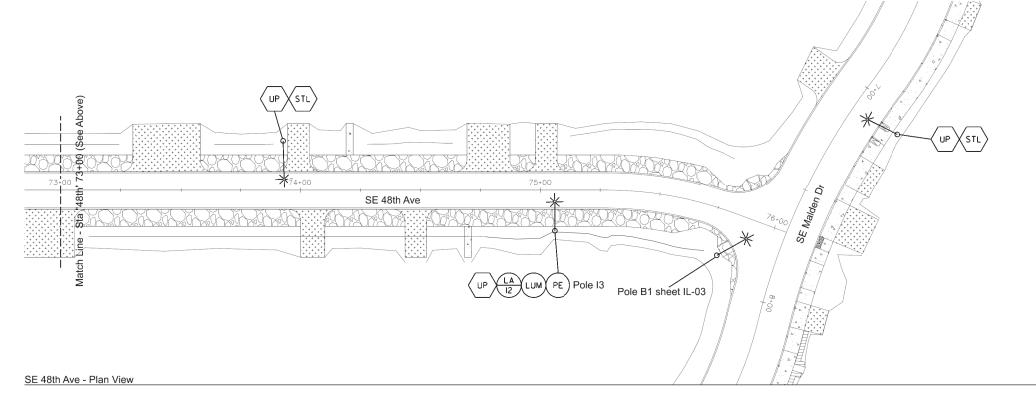
Illumination Plan

SE Tenino Court

1s2e19
PROJECT NO.
T00526
SHEET NO.









SE 48+h AVE AT SE MALDEN DR AND SE TENINO DR

7	315 1 45
•	270 - (1) - 90
?	225 135 180

	POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT)
	II	7659853,07', 663017,95'	270	29	3000	30
ſ	12	7659855.34', 663198.11'	270	29	3000	30
ſ	13	7659863.63', 663422.21'	270	29	3000	30

0 20 40 60 8 FEET WARNING

O 1/2 |

IF THIS BAR DOES

NOT MEASURE !

THEN DRAWING IS

NOT TO SCALE.

ā	NO.	DATE	DESCRIPTION	APPD.		
+0					*	*
Ď					CHECKED BY	INTER. NUMBER
ë					M. Goins	P. Koonce
_					CAD BY	DIV. ENGINEER
.5					M. Goins	XXX XXXX
2019					DESIGNED BY	DATE APPROVED

APPROVALS:	
PRINCIPAL ENGINEER	REG. PROF. ENGR. NO. 53882PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE

PORTLAND BUREAU OF TRANSPORTATION
CHIOE EUDALY
STEVE TOWNSEN, P.E.
CITY ENGINEER



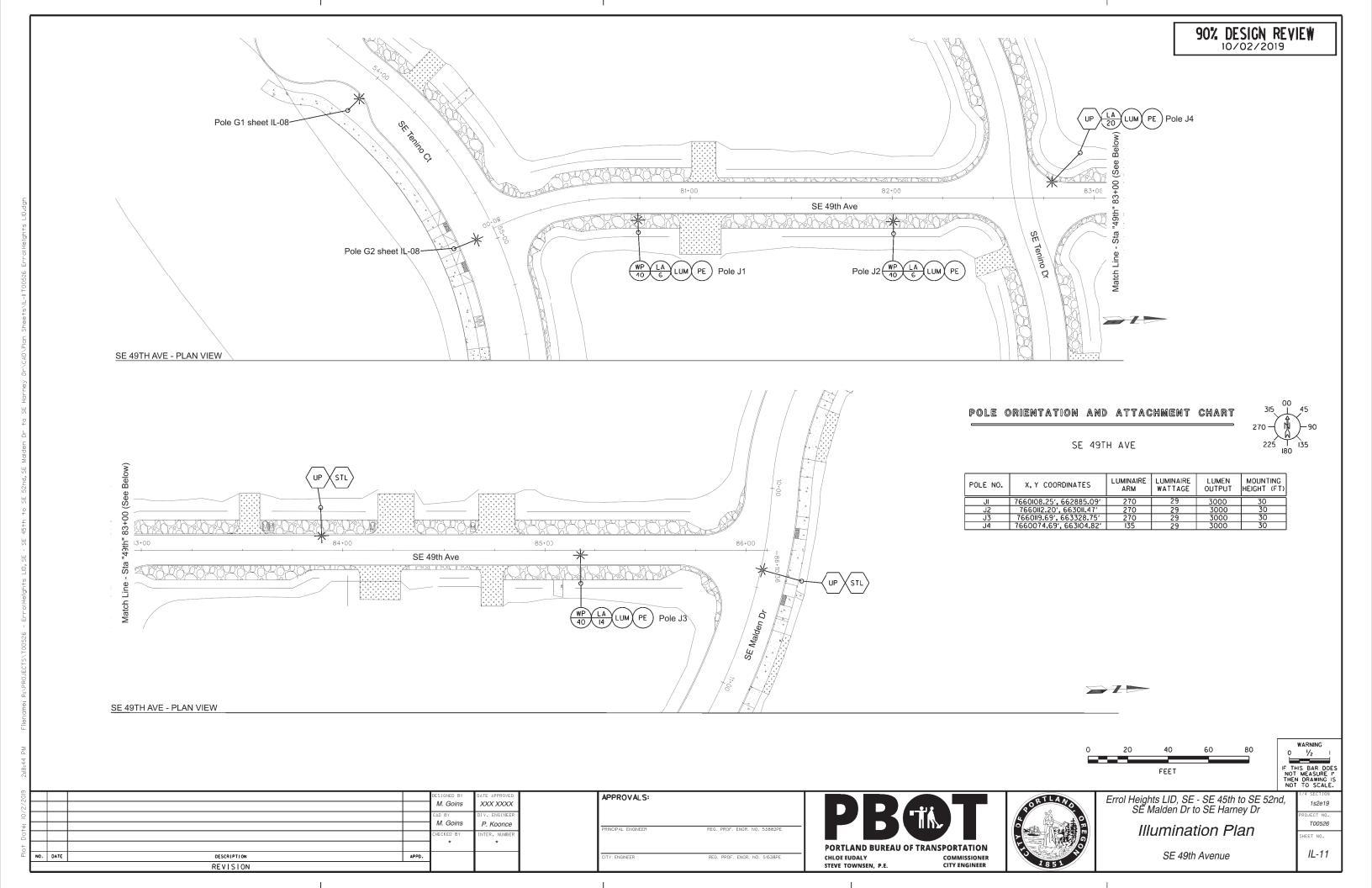
Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr

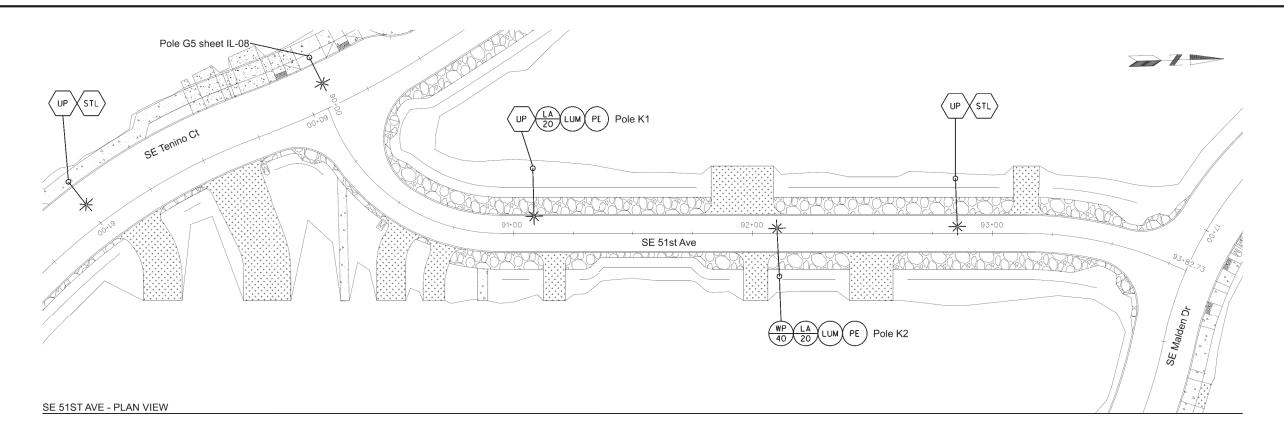
Illumination Plan

SE 48th Avenue

1s2e19
PROJECT NO.
T00526
SHEET NO.

IL-10



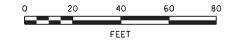


315 45 270 - N - 90 225 135

SE 5IST AVE

POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT
KI	7660579.13, 662788.75	90	29	3000	30
K2	7660531.46, 662686,99	270	29	3000	30





NO.	DATE	OESCRIPTION	APPD.		
				*	*
				CHECKED BY	INTER. NUMBER
					P. Koonce
					DIV. ENGINEER
				M. Goins	XXX XXXX
					DATE APPROVED
					DESIGNED BY M. Goins CAD BY M. Goins CAD BY M. Goins CHECKED BY **

APPROVALS:	
PRINCIPAL ENGINEER	REG. PROF. ENGR. NO. 53882PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE





Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr

Illumination Plan

SE 51st Avenue

1s2e19
PROJECT NO.
T00526
SHEET NO.