

90% DESIGN REVIEW  
OCTOBER 4, 2019

1

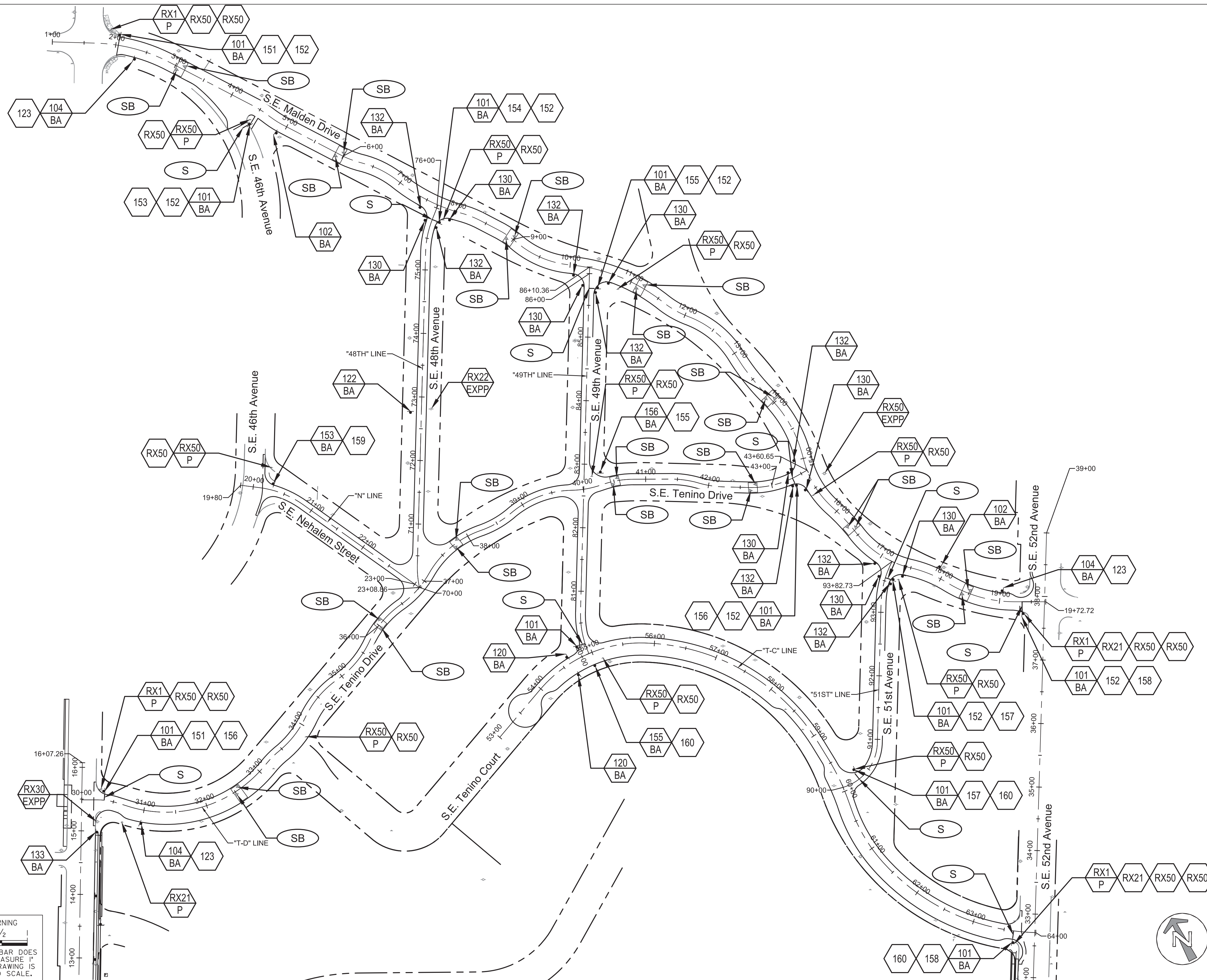


Signing Notes:

- 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.

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.



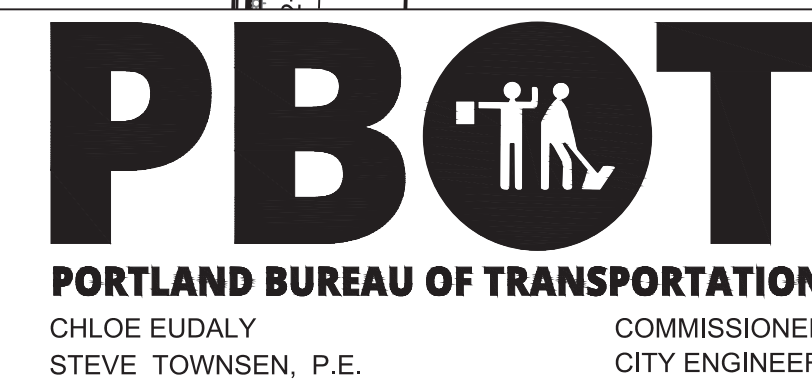
FILE: 0055-S-1-PERMANENT SIGNING.DWG S-1 10/4/2019 2:28:46 PM - JCADUA

[illegible]

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

PRELIMINARY  
NOT FOR  
CONSTRUCTION

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



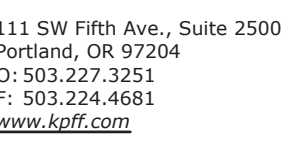
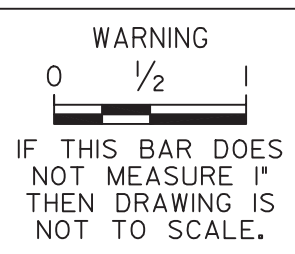
Errol Heights  
Street and Storm Improvements


*Permanent Signing  
and Striping Plan*

1/4 SECTION
1s2e19
PROJECT NO.
T00526.D42
SHEET NO.
S-1



- 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.



FILE: 0069-S-1-PERMA						DESIGNED BY: D. Murar / L. Burke	DATE APPROVED Dec. 2018	<div>PRELIMINARY NOT FOR CONSTRUCTION</div>	APPROVALS:		<div><div>PBOT</div><div>PORTLAND BUREAU OF TRANSPORTATION</div><div>CHLOE EUDALY STEVE TOWNSEN, P.E.</div><div>COMMISSIONER CITY ENGINEER</div></div>	<div><div></div><div>Errol Heights Street and Storm Improvements</div><div>Permanent Signing and Striping Plan</div></div>	1/4 SECTION 1s2e19
					CAD BY R. Cadua	PROGRAM MGR.	SUPERVISING ENGINEER REG. PROF. ENGR. NO. 14956PE		PROJECT NO. T00526.D42				
					CHECKED BY C. Vanderzanden	CONSTR. MGR.	CITY ENGINEER REG. PROF. ENGR. NO. 51538PE		SHEET NO.				
NO.	DATE	DESCRIPTION	APPD.										S-2
			REVISION										





FILE: 0055-S-3-SIGNING LEGENDS.DWG S-4 10/14/2019 2:28:54 PM - JCADUA

Traffic Sign Number Legend



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



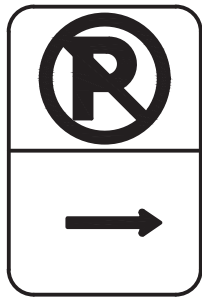
W3700  
W4-1  
24" X 24"  
Sign No. 120



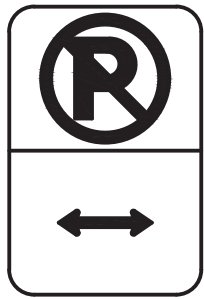
W4020  
W13-1  
18" X 18"  
Sign No. 122



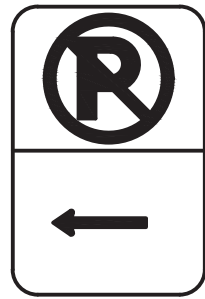
W2610  
30" X 30"  
Sign No. 123



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



P1190D  
12" X 18"  
Sign No. 134



P1190L  
12" X 18"  
Sign No. 135



G5501  
30" X 6"  
Sign No. 151



G5501  
36" X 6"  
Sign No. 152



G5501  
30" X 6"  
Sign No. 153



G5501  
30" X 6"  
Sign No. 154



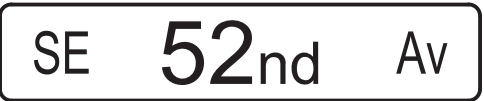
G5501  
30" X 6"  
Sign No. 155



G5501  
36" X 6"  
Sign No. 156



G5501  
30" X 6"  
Sign No. 157



G5501  
30" X 6"  
Sign No. 158

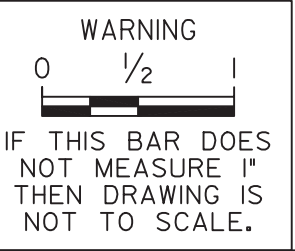
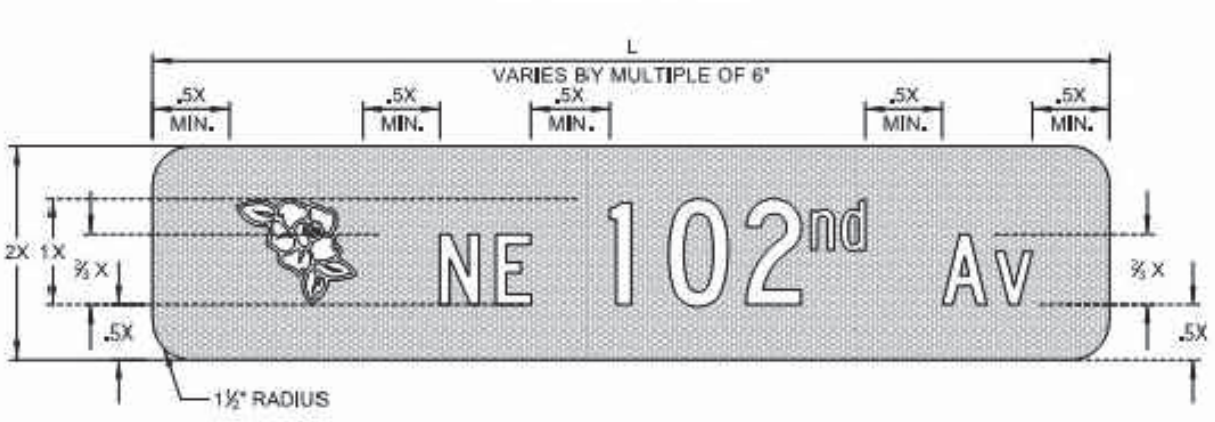
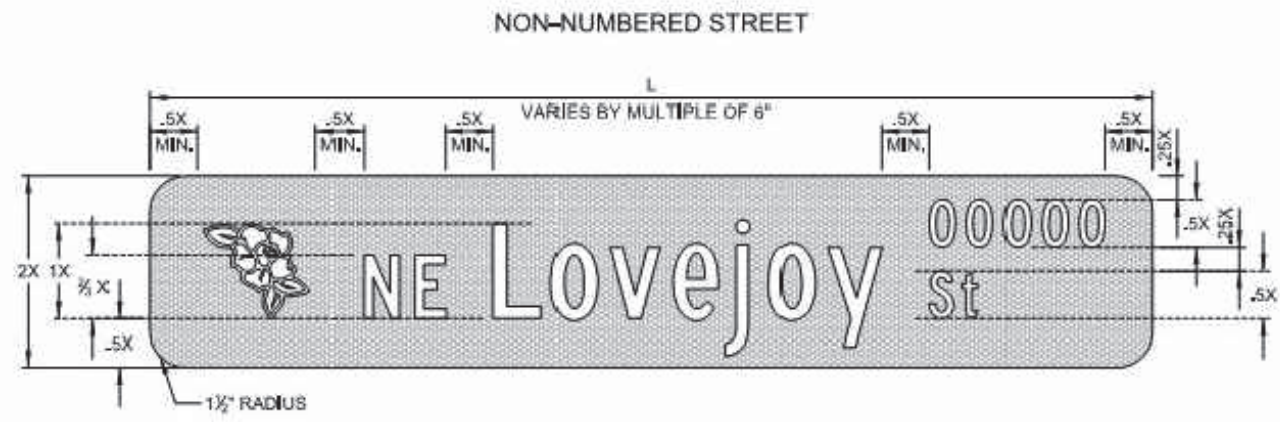


G5501  
36" X 6"  
Sign No. 159



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



IF THIS BAR DOES NOT MEASURE 1' THEN DRAWING IS NOT TO SCALE.

NO.	DATE	DESCRIPTION	APPD.
		REVISION	

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

PRELIMINARY  
NOT FOR  
CONSTRUCTION

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

**PBOT**  
PORTLAND BUREAU OF TRANSPORTATION  
CHLOE EUDALY  
STEVE TOWNSEN, P.E.

COMMISSIONER  
CITY ENGINEER



Errol Heights  
Street and Storm Improvements

Signing Legends

1/4 SECTION 1s2e19
PROJECT NO. T00526.D42
SHEET NO. S-4

LUM ——— INSTALL \_\_\_\_\_W LED LUMINARIE, TYPE \_\_\_\_\_ DISTRIBUTION



UP — EXISTING UTILITY POLE


 INSTALL (L) FT LUMINAIRE STREET LIGHT ARM

STL — EXISTING STREETLIGHT

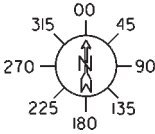

 INSTALL (L) FT CLASS 2 TREATED WOOD POLE

PE — INSTALL PHOTOELECTRIC RELAY

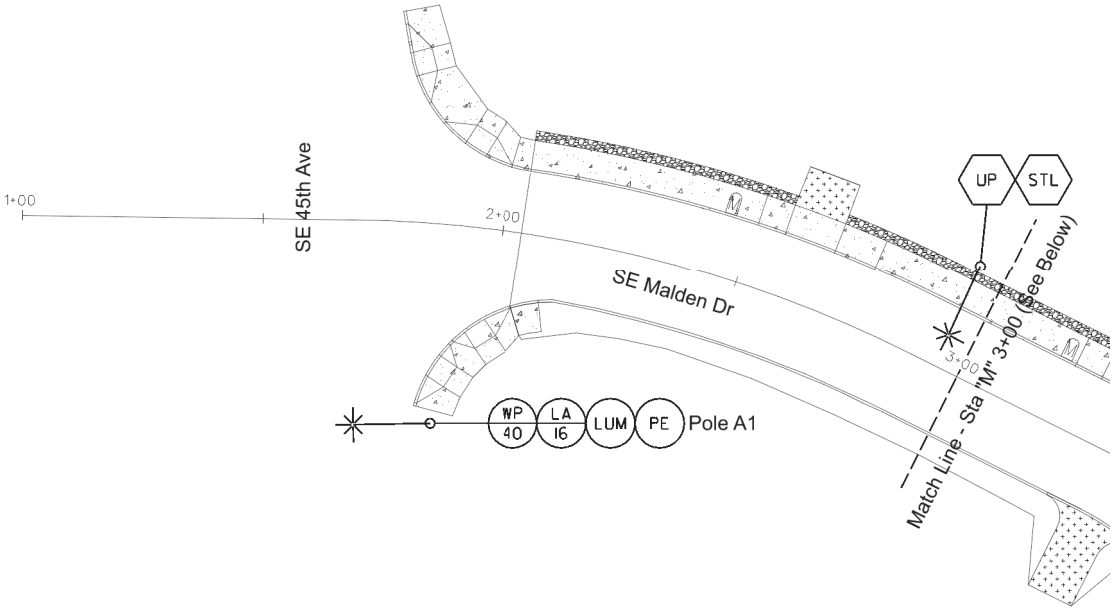
				DESIGNED BY <i>M. Goins</i>	DATE APPROVED <i>XXX XXXX</i>	<b>APPROVALS:</b>  <hr/> PRINCIPAL ENGINEER _____ REG. PROF. ENGR. NO. 53882PE  <hr/> CITY ENGINEER _____ REG. PROF. ENGR. NO. 51538PE	 <p><b>PORTLAND BUREAU OF TRANSPORTATION</b>                  CHLOE EUDALY                  STEVE TOWNSEN, P.E.</p> <p><b>COMMISSIONER</b>                  CITY ENGINEER</p>	 <p><i>Errol Heights LID, SE - SE 45th to SE 52nd,                  SE Malden Dr to SE Harney Dr</i></p> <p><i>Illumination Legend</i></p>	1/4 SECTION 1s2e19
				CAD BY <i>M. Goins</i>	DIV. ENGINEER <i>P. Koonce</i>				PROJECT NO. T00526
				CHECKED BY *	INTER. NUMBER *				SHEET NO.
NO.	DATE	DESCRIPTION	APPD.						IL-01
REVISION									

POLE ORIENTATION AND ATTACHMENT CHART

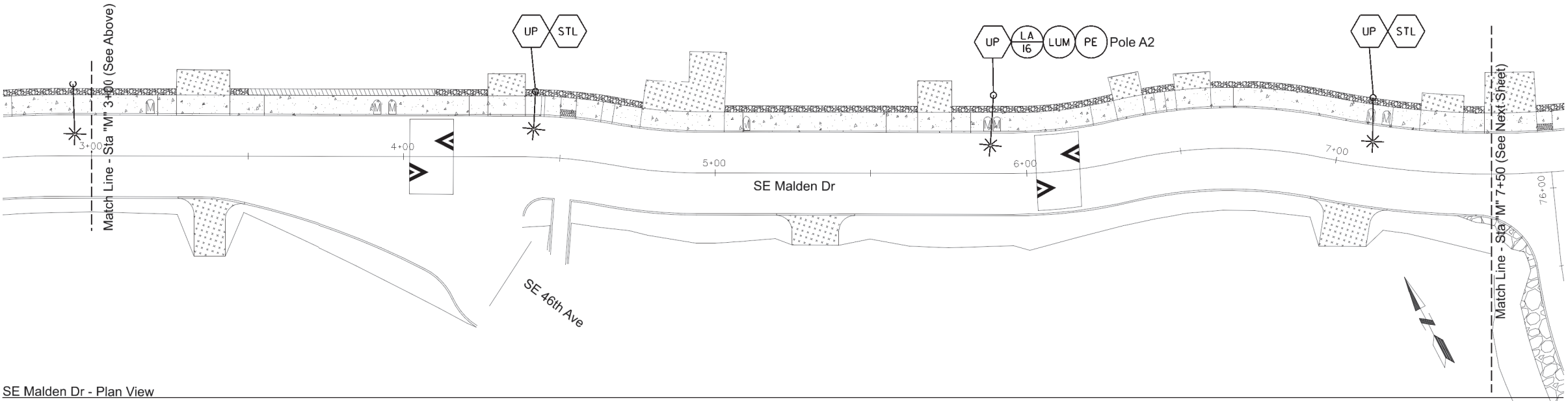
SE MALDEN DR AT SE 45TH AVE



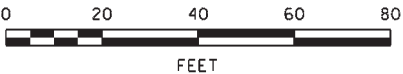
POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT)
A1	7659343.96', 663730.65'	270	41	4500	30
A2	7659827.00', 663566.21'	180	29	3000	30



SE Malden Dr - Plan View



SE Malden Dr - Plan View



WARNING  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

NO.	DATE	DESCRIPTION	APPD.
REVISION			

DESIGNED BY <i>M. Goins</i>	DATE APPROVED XXX XXXX
CAD BY <i>M. Goins</i>	DIV. ENGINEER <i>P. Koonce</i>
CHECKED BY *	INTER. NUMBER *

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

**PBOT**  
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 Malden Dr

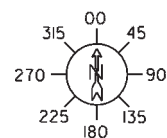
1/4 SECTION
1s2e19
PROJECT NO. T00526
SHEET NO. IL-02



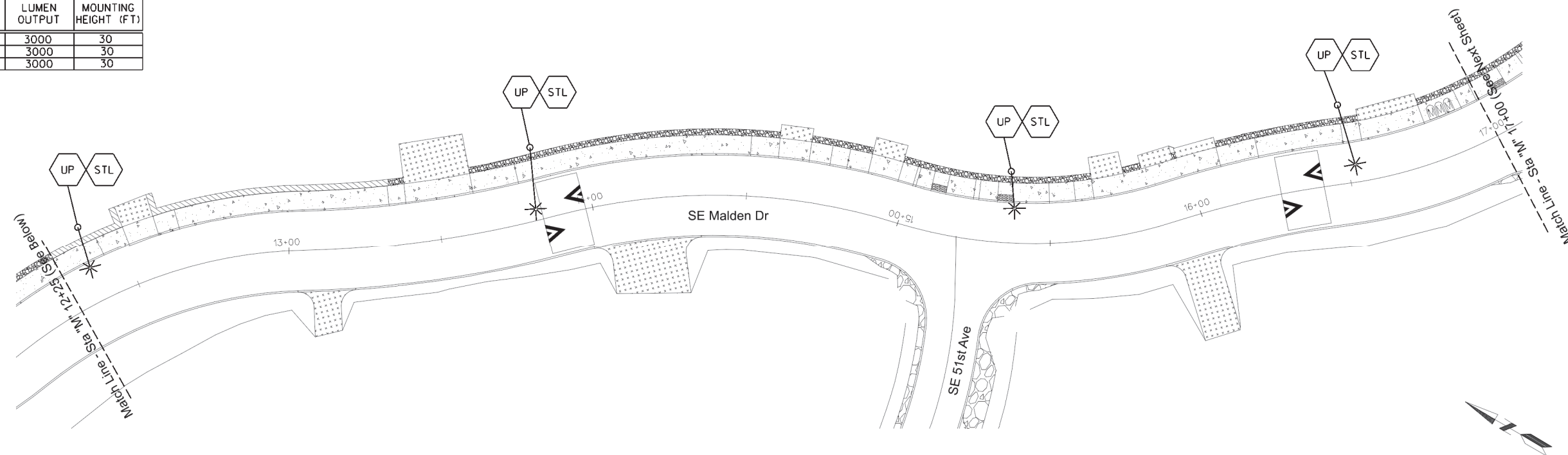
90% DESIGN REVIEW  
10/02/2019

## POLE ORIENTATION AND ATTACHMENT CHART

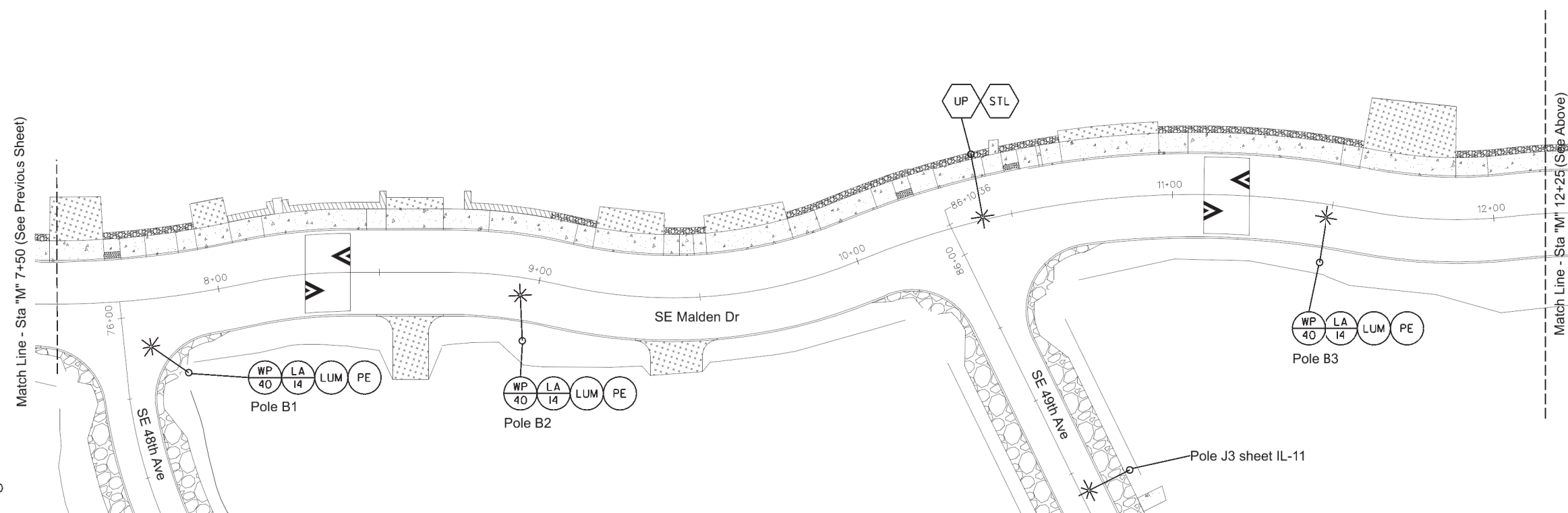
SE MALDEN DR



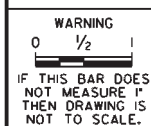
POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT)
B1	7659875.64, 663489.65	315	29	3000	30
B2	7659971.76, 663450.65	45	29	3000	30
B3	7660201.3, 663358.40	45	29	3000	30



SE MALDEN DR - PLAN VIEW



SE MALDEN DR - PLAN VIEW

[illegible]

DESIGNED BY <i>M. Goins</i>	DATE APPROVED <i>XXX XXXX</i>
CAD BY <i>M. Goins</i>	DIV. ENGINEER <i>P. Koonce</i>
CHECKED BY ★	INTER. NUMBER ★

**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*

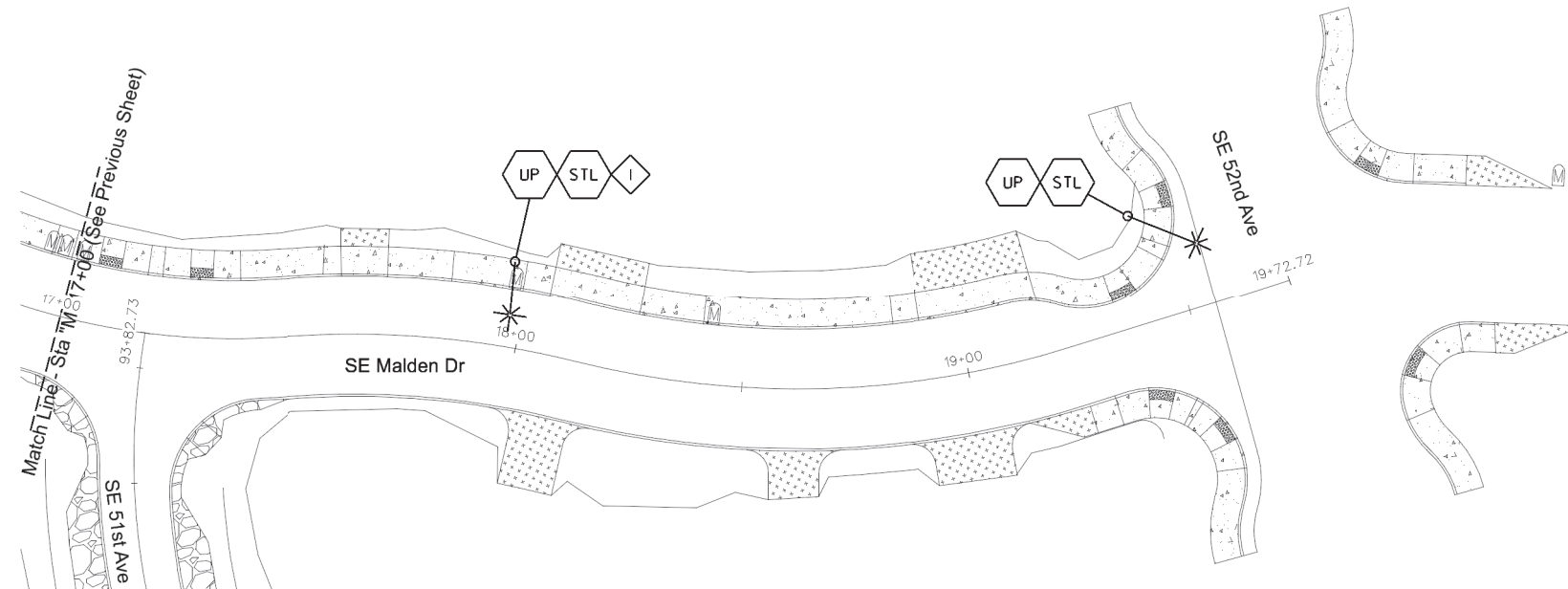
SE Malden Dr

1/4 SECTION	<i>1s2e19</i>
PROJECT NO.	<i>T00526</i>
SHEET NO.	<i>IL-03</i>

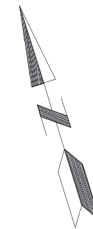


### CONSTRUCTION NOTES

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

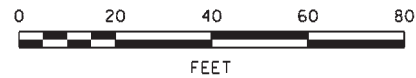
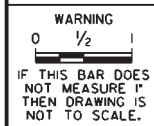


SE MALDEN DR - PLAN VIEW

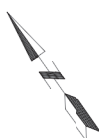


Filenam e: R:\PROJECTS\T00526 - Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr\CAD\Plan Sheets\IL-04 T00526 Errol Heights LID.dgn

Plot Date: 10/2/2019



				DESIGNED BY <i>M. Goins</i>	DATE APPROVED <i>XXX XXXX</i>	<div>APPROVALS:</div> <div><div>PRINCIPAL ENGINEER</div><div>REG. PROF. ENGR. NO. 53082PE</div></div> <div><div>CITY ENGINEER</div><div>REG. PROF. ENGR. NO. 51538PE</div></div>	<div><div><div>PBOT</div><div>PORTLAND BUREAU OF TRANSPORTATION</div><div>CHLOE EUDALY STEVE TOWNSEN, P.E.</div></div><div><div>COMMISSIONER</div><div>CITY ENGINEER</div></div></div> <div><div><div>CITY OF PORTLAND OREGON</div><div>1851</div></div></div>	<div>Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr</div> <div><i>Illumination Plan</i></div> <div>SE Malden Dr &amp; SE 52nd Ave</div>	1/4 SECTION 1s2e1g
				CAD BY <i>M. Goins</i>	DIV. ENGINEER <i>P. Koonce</i>				PROJECT NO. T00526
				CHECKED BY *	INTER. NUMBER *				SHEET NO.
NO.	DATE	DESCRIPTION	APPD.						
		REVISION							



## POLE ORIENTATION AND ATTACHMENT CHART

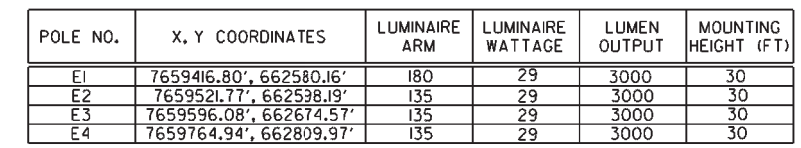
**WARNING**

0  $\frac{1}{2}$  1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

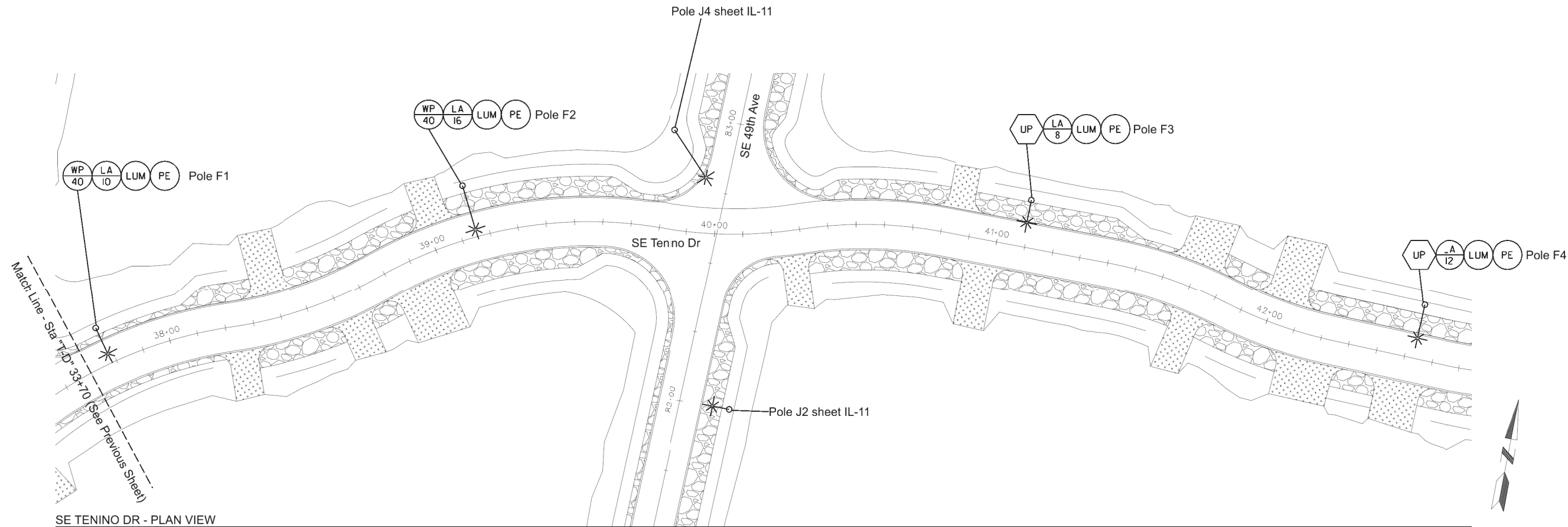






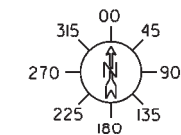
A graphic scale bar is shown with markings at 0, 20, 40, 60, and 80 FEET. Below the bar is the word "FEET". To the right of the scale bar is a warning label that reads: "WARNING 0 1/2 1 IF THIS BAR DOES NOT MEASURE 1' THEN DRAWING IS NOT TO SCALE."

[illegible]



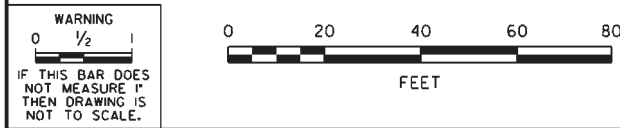
POLE ORIENTATION AND ATTACHMENT CHART


SE TENINO DR AT SE 49TH AVE



POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT)
F1	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
F4	7660346.02, 663093.90	180	41	4500	30

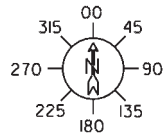
Plot Date: 10/2/2019 1:41:22 PM  
Filename: R:\PROJECTS\T00526 - ErrolHeights LID, SE - SE 45th To SE 52nd, SE Malden Dr to SE Harney Dr\CAD\Plan Sheets\IL-07 T00526 ErrolHeights LID.dgn



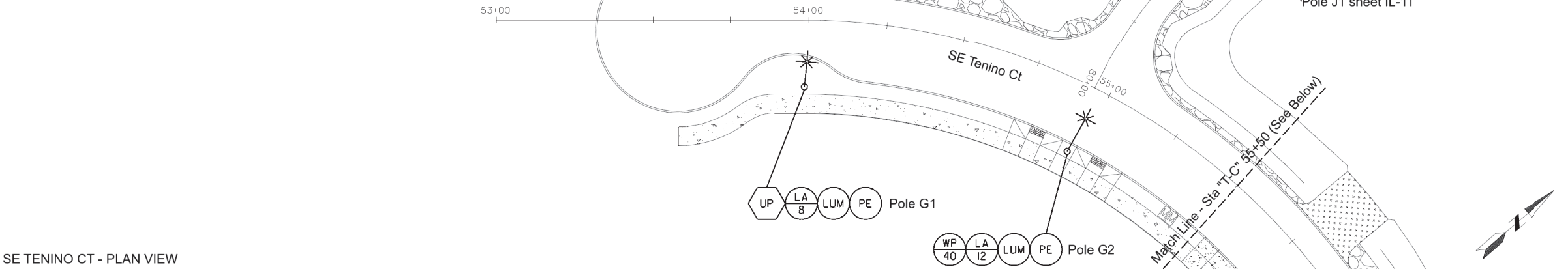
		DESIGNED BY <i>M. Goins</i>	DATE APPROVED XXX XXXX	APPROVALS:	<b>PBOT</b> PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E.		Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr  <i>Illumination Plan</i>  SE Tenino Drive	1/4 SECTION 1s2e19
		CAD BY <i>M. Goins</i>	DIV. ENGINEER <i>P. Koonce</i>					PROJECT NO. T00526
		CHECKED BY *	INTER. NUMBER *					SHEET NO.
NO.	DATE	DESCRIPTION	APPD.					IL-07
REVISION								



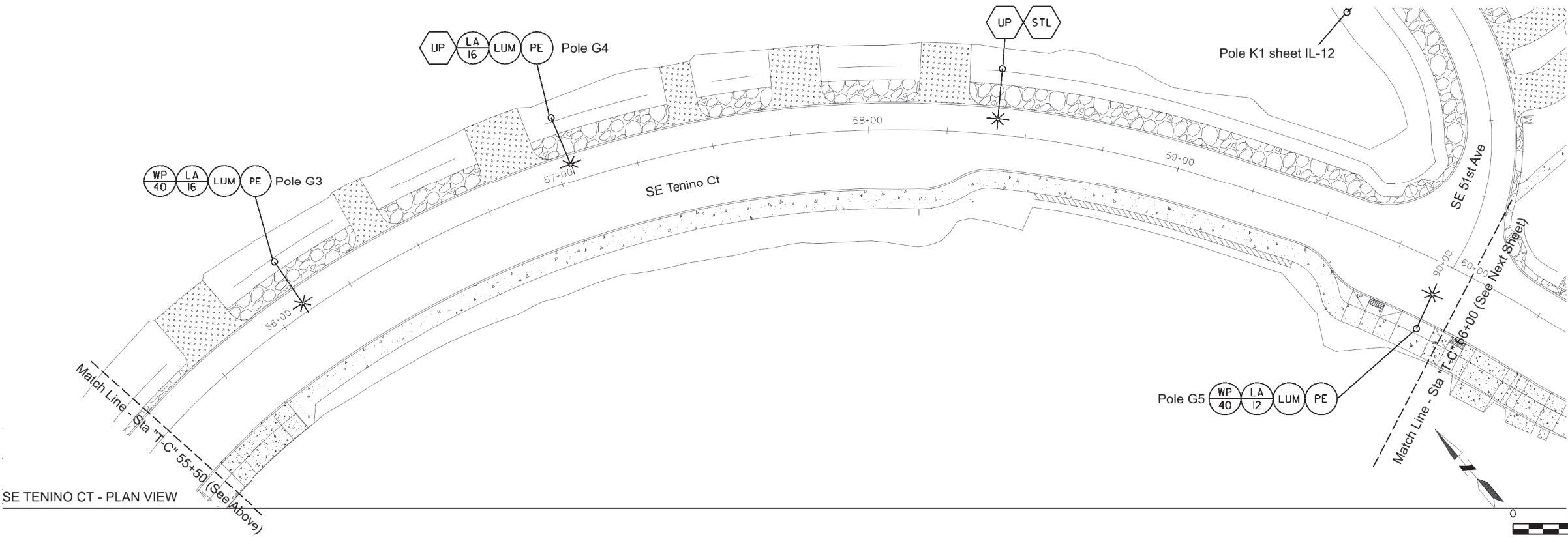
SE TENINO CT



POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT)
G1	7660044.13', 662742.59'	315	29	3000	30
G2	7660114.32', 662791.59'	00	29	3000	30
G3	7660218.31', 662847.82'	180	29	3000	30
G4	7660540.37', 662863.19'	225	41	4500	30
G5	7659596.08', 662674.57'	45	29	3000	30



SE TENINO CT - PLAN VIEW



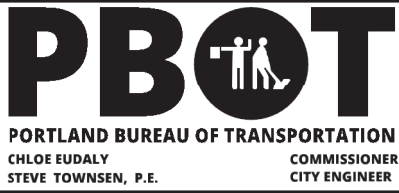
SE TENINO CT - PLAN VIEW

NO.	DATE	DESCRIPTION	APPD.
REVISION			

DESIGNED BY <i>M. Goins</i>	DATE APPROVED <i>XXX XXXX</i>
CAD BY <i>M. Goins</i>	DIV. ENGINEER <i>P. Koonce</i>
CHECKED BY <i>*</i>	INTER. NUMBER <i>*</i>

**APPROVALS:**

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

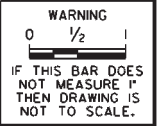


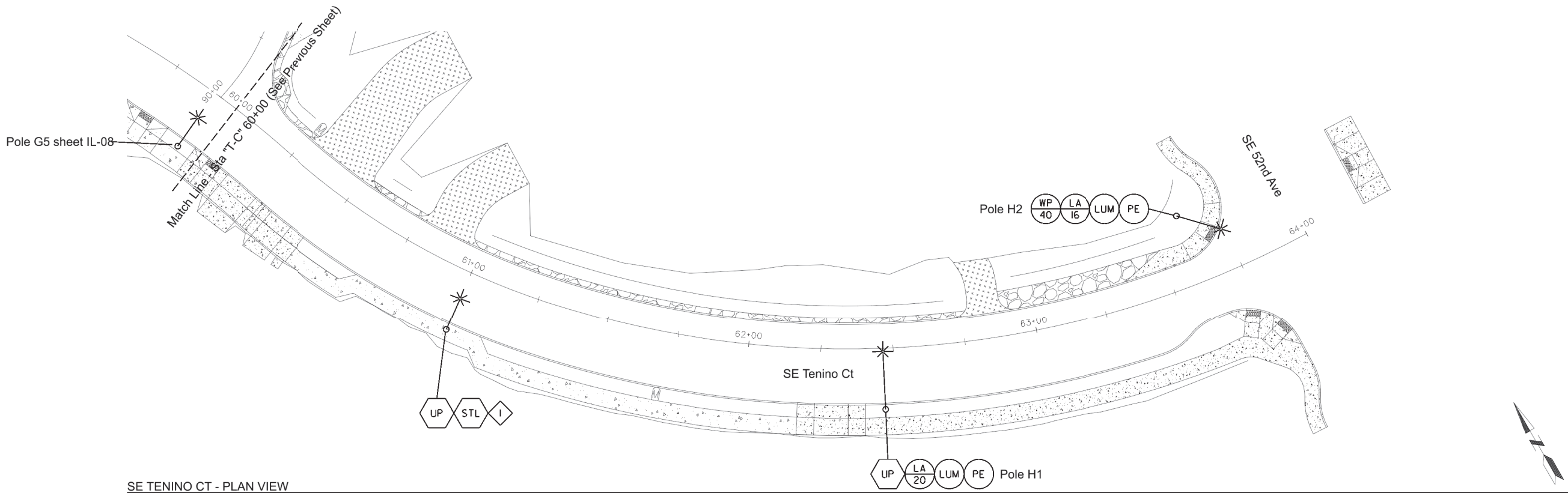
Errol Heights LID, SE - SE 45th to SE 52nd,  
SE Malden Dr to SE Harney Dr

***Illumination Plan***

SE Tenino Court

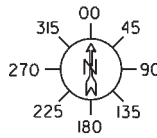
1/4 SECTION
<i>1s2e19</i>
PROJECT NO.
<i>T00526</i>
SHEET NO.
<i>IL-08</i>





## POLE ORIENTATION AND ATTACHMENT CHART

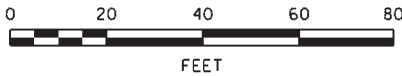
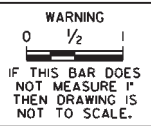
SE TENINO CT at SE 52ND AVE



POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT)
H1	7660649.89', 662393.02'	45	29	3000	30
H2	7660771.32', 662401.78'	135	41	4500	30

## CONSTRUCTION NOTES

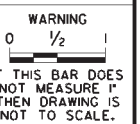
- 1 Relocate pole behind sidewalk, replacing luminaire arm to maintain current luminaire position, by others.


[illegible]





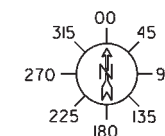
POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT)
II	7659853.07', 663017.95'	270	29	3000	30
I2	7659855.34', 663198.1'	270	29	3000	30
I3	7659863.63', 663422.2'	270	29	3000	30



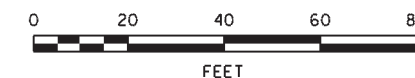
				DESIGNED BY <i>M. Goins</i>	DATE APPROVED <i>XXX XXXX</i>	<div>APPROVALS:</div> <div><div>PRINCIPAL ENGINEER</div><div>REG. PROF. ENGR. NO. 53882PE</div></div> <div><div>CITY ENGINEER</div><div>REG. PROF. ENGR. NO. 51538PE</div></div>	<div><div>PBOT</div><div>PORTLAND BUREAU OF TRANSPORTATION</div><div>CHLOE EUDALY STEVE TOWNSEN, P.E.</div><div>COMMISSIONER CITY ENGINEER</div></div> <div><div></div><div>1851</div></div>	<div>1/4 SECTION <i>1s2e19</i></div> <div>PROJECT NO. <i>T00526</i></div> <div>SHEET NO. <i>IL-10</i></div>
			CAD BY <i>M. Goins</i>	DIV. ENGINEER <i>P. Koonce</i>				
			CHECKED BY <i>*</i>	INTER. NUMBER <i>*</i>				
NO.	DATE	DESCRIPTION	APPD.					
		REVISION					<div>Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr</div> <div>ILLUMINATION Plan</div> <div>SE 48th Avenue</div>	



SE 49TH AVE





POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (F)
J1	7660108.25', 662885.09'	270	29	3000	30
J2	766012.20', 663011.47'	270	29	3000	30
J3	766019.69', 663328.75'	270	29	3000	30
J4	7660074.69', 663104.82'	135	29	3000	30



**WARNING**

0  $\frac{1}{2}$  1

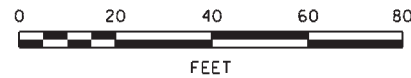
IF THIS BAR DOES NOT MEASURE 1/2" THEN DRAWING IS NOT TO SCALE

				DESIGNED BY <i>M. Goins</i>	DATE APPROVED <i>XXX XXXX</i>	<b>APPROVALS:</b>  PRINCIPAL ENGINEER _____ REG. PROF. ENGR. NO. 53882PE  CITY ENGINEER _____ REG. PROF. ENGR. NO. 51538PE	 <b>PORTLAND BUREAU OF TRANSPORTATION</b> CHLOE EUDALY STEVE TOWNSEN, P.E.  COMMISSIONER CITY ENGINEER		<i>Errol Heights LID, SE - SE 45th to SE 52nd, SE Malden Dr to SE Harney Dr</i>  <i>Illumination Plan</i>  <i>SE 49th Avenue</i>	174 SECTION <i>1s2e19</i>
			CAD BY <i>M. Goins</i>	DIV. ENGINEER <i>P. Koonce</i>	PROJECT NO. <i>T00526</i>					
			CHECKED BY *	INTER. NUMBER *	SHEET NO.					
NO.	DATE	DESCRIPTION	APPD.							
		REVISION								IL-11





POLE NO.	X, Y COORDINATES	LUMINAIRE ARM	LUMINAIRE WATTAGE	LUMEN OUTPUT	MOUNTING HEIGHT (FT)
K1	7660579.13, 662788.75	90	29	3000	30
K2	7660531.46, 662686.99	270	29	3000	30

[illegible]