

Plans for Proposed Project

SE 80th Avenue & Mill Street LID

SE Lincoln St to SE Market St

Overall Length of Project - 2,000 Feet



T. 1 S., R. 2 E., W.M.

NOTICE TO EXCAVATORS:
ATTENTION: OREGON LAW REQUIRES YOU
TO FOLLOW RULES ADOPTED BY THE
OREGON UTILITY NOTIFICATION CENTER.
THOSE RULES ARE SET FORTH IN OAR
952-001-0010 THROUGH OAR
952-001-0090. YOU MAY OBTAIN
COPIES OF THE RULES BY CALLING THE
CENTER.
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

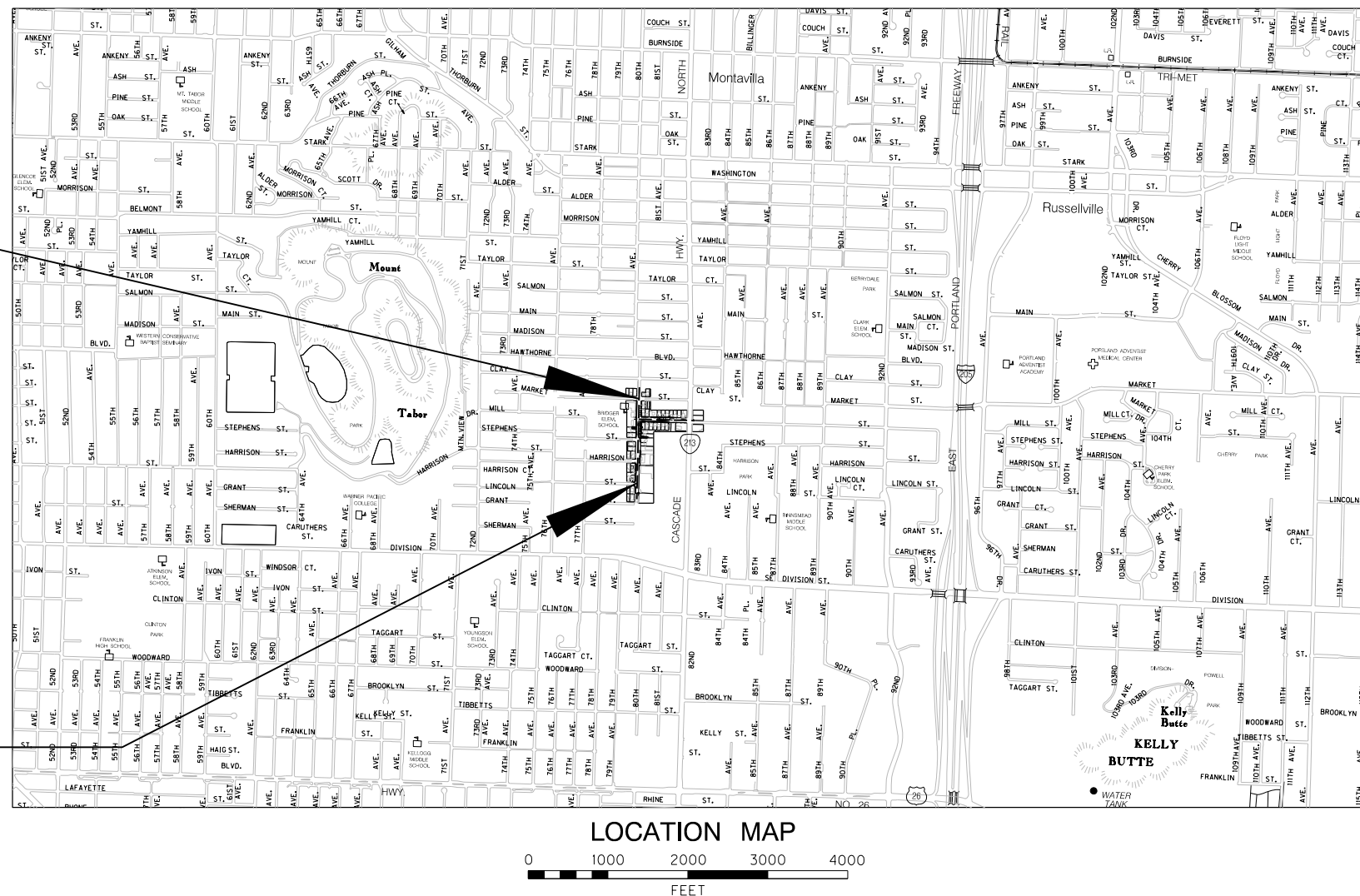
NW NATURAL GAS	
M-F 7am-6pm	503-226-4211 Ext.4313
AFTER HOURS	503-226-4211
PGE	503-464-7777
CENTURYLINK	1-800-573-1311
BUREAU OF TRANS./MAINT. OPERATIONS	503-823-1700
CITY WATER	503-823-4874
VERIZON	1-800-483-1000

Project Ending

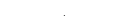
SE Market St at
SE 80th Ave

Project Begining

SE Grant St at
SE 80th Ave

[illegible]

					DESIGN
					<i>R. B.</i>
					CAD BY
					<i>P. F.</i>
					CHECKE
					<i>T. B.</i>
NO.	DATE		DESCRIPTION	APPD.	
REVISION					

DATE APPROVED June 2019 DIV. ENGINEER S. Townsen	 digital signature	APPROVALS:  SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE	
		 CITY ENGINEER REG. PROF. ENGR. NO. 51538PE	

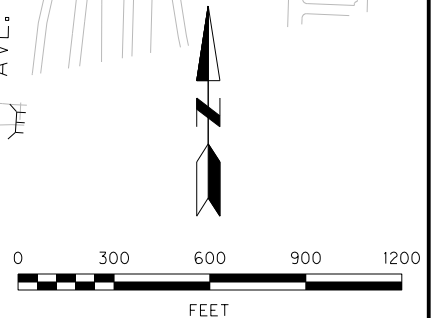
- P-101 - Pipe Bedding and Pipe Zone
- P-150 - Precast Concrete Manhole
- P-151 - Manhole Cast-in-Place & Precast Base Slab
- P-152 - Top Slabs for Precast Concrete Manholes
- P-160 - Precast Sump
- P-161 - Sedimentation Manhole with Hood
- P-168 - Step for Precast Manhole
- P-171 - Manhole Frame - 6-inch Depth
- P-176 - Manhole Cover

- P-256 - Rain Drain to Gutter
- P-257 - Sanitary Sewer Lateral Cleanout
- P-258 - Sanitary Sewer Terminal Cleanout

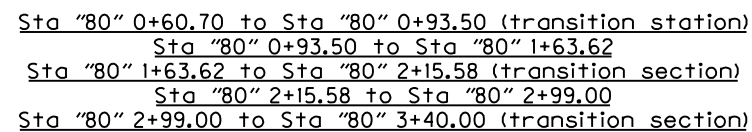
- P-400 - Sign Placement
- P-405 - Breakaway Traffic Sign Supports
- P-410 - Sign Bracket, Cap Details
- P-411 - Sign Bracket, Strong-Back Details
- P-420 - Street Name Sign Detail
- P-434 - Pavement Markings Standard Detail Blocks
- P-435 - Pavement Markings Standard Detail Blocks

- P-505 - AC Pavement Trench Resurfacing on Local Streets
- P-506 - Asphalt Concrete Pavement Repair Adjacent to Curb
- P-507 - Manhole Frame Adjustment
- P-528 - Typical Separated Sidewalk Driveway
- P-536 - Driveway Connection Detail
- P-540 - Curbs
- P-544 - Miscellaneous Curb Detail
- P-547 - Midblock Sidewalk Ramp
- P-548 - Sidewalk Ramp with Planter Strip Placement Options
- P-551 - Sidewalks

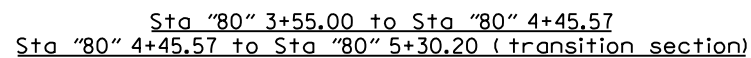
BR241	- Protective Fencing Details-1
BR242	- Protective Fencing Details-2
RD364	- Concrete Inlets Type G-1,G-2,G-2M, & G-2MA
RD366	- Concrete Inlets Type CG-1,CG-2 and Curb Inlet Channel
RD371	- Concrete Inlet Base Type CG-3
RD372	- Concrete Inlet Top, Option1 Type CG-3
RD376	- Miscellaneous Drainage Structures Siphon Box, Inlet Cap & Inlet Adjustment
RD759	- Truncated Dome Detectable Warning Surface Details & Placement Locations.
RD1010	- Inlet Protection
RD1040	- Sediment Fence, Supported Sediment Fence, Unsupported
TM500	- Pavement Markings Standard Detail Blocks
TM503	- Pavement Markings Standard Detail Blocks
TM800	- Tables, Abrupt Edge and PCMS Details
TM820	- Temporary Barricades
TM821	- Temporary Sign Supports
TM840	- Closure Details
TM841	- Intersection Work Zone Details



				DESIGNED BY <i>R. Bennett</i>	DATE APPROVED June 2019		APPROVALS:  REG. PROF. ENGR. NO. 84470PE			S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St.	1/4 SECTION 3238	
				CAD BY <i>P. Ferreira</i>	DIV. ENGINEER S. Townsen						 REG. PROF. ENGR. NO. 51538PE	PROJECT NO. T00728 E11115
				CHECKED BY <i>T. Bowers</i>								SHEET NO. 1C
NO.	DATE	DESCRIPTION		APPD.								
		REVISION										



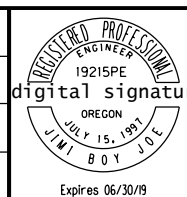
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Scale: $\frac{3}{8}'' = 1'-0''$

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CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>T. Bowers</i>	



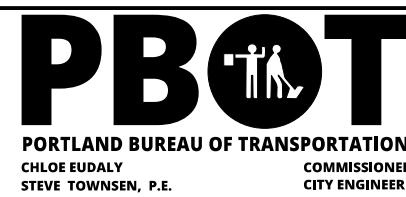
APPROVALS:

E. B. Montgomery

SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE

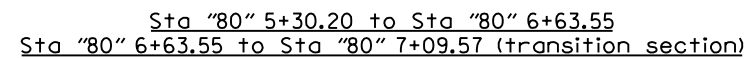
Steve Tamm

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

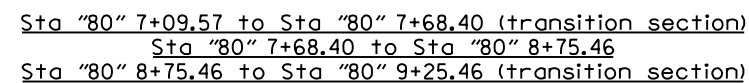


Typical Sections

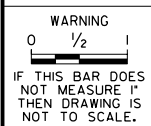
1/4 SECTION
3238
PROJECT NO. T00728 E11115
SHEET NO. 2A-1

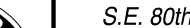


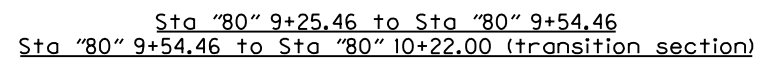
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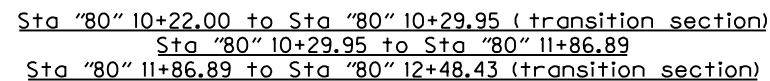
Typical Section 4
Scale: $\frac{3}{8}" = 1'-0"$ 6,7



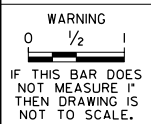
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			CAD BY <i>P. Ferreira</i>	DIV. ENGINEER S. Townsen						PROJECT NO. T00728 E11115
			CHECKED BY <i>T. Bowers</i>							SHEET NO. 2A-2
NO.	DATE	DESCRIPTION	APPD.							
		REVISION								

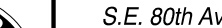


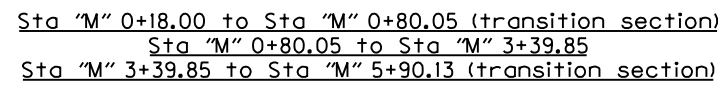
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Scale: $\frac{3}{8}" = 1'-0"$ 6,7



Typical Section 6
Scale: $\frac{3}{8}" = 1'-0"$ 7.8



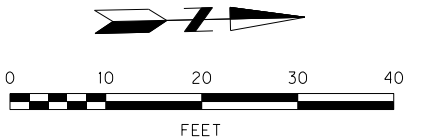
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			CAD BY <i>P. Ferreira</i>	DIV. ENGINEER S. Townsen						PROJECT NO. T00728 E11115
			CHECKED BY <i>T. Bowers</i>							SHEET NO. 2A-3
NO.	DATE	DESCRIPTION	APPD.							
REVISION										



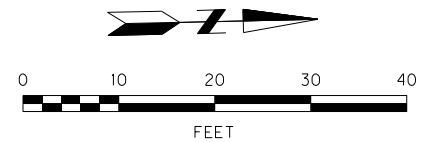
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Scale: $\frac{3}{8}'' = 1'-0''$ 7, 9, 10
11



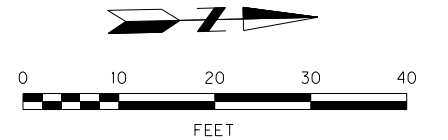
			DESIGNED BY R. Bennett	DATE APPROVED June 2019		APPROVALS:	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E.	 Typical Sections	S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St.	1/4" SECTION 3238
			CAD BY P. Ferreira	S. Townsen		SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE				PROJECT NO. T00728 E11115
			CHECKED BY T. Bowers			CITY ENGINEER REG. PROF. ENGR. NO. 51538PE				SHEET NO.
NO.	DATE	DESCRIPTION	APPD.							2A-4
REVISION										



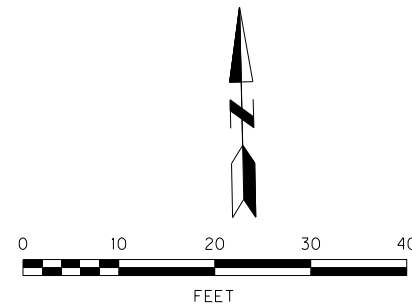
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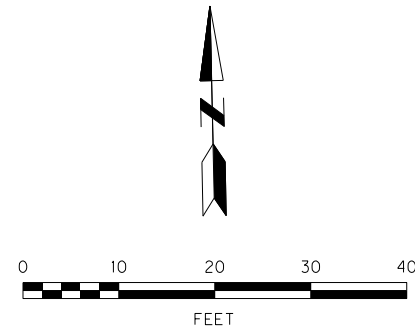
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			CAD BY P. Ferreira	S. Townsen		SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE			PROJECT NO. T00728 E11115
			CHECKED BY T. Bowers			CITY ENGINEER REG. PROF. ENGR. NO. 51538PE			SHEET NO.
NO.	DATE	DESCRIPTION	APPD.						2E-4
REVISION									



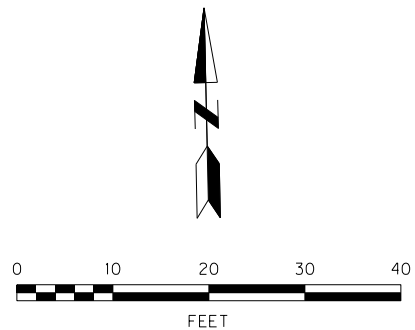
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			CAD BY P. Ferreira	DIV. ENGINEER S. Townsen		 SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE			PROJECT NO. T00728 E11115
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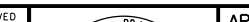


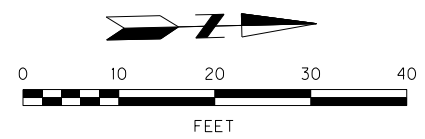
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					CAD BY P. Ferreira	DIV. ENGINEER S. Townsen		SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE					PROJECT NO. T00728 E11115
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NO.	DATE	DESCRIPTION	APPD.	REVISION			Expires 06/30/19						

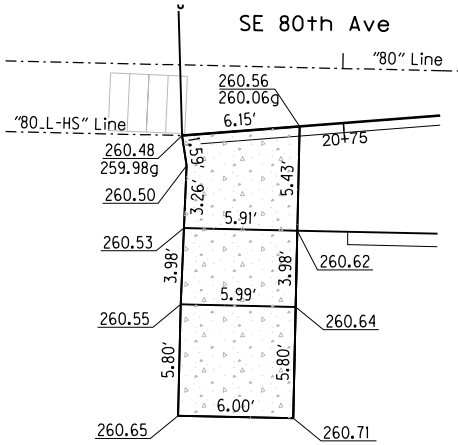


			DESIGNED BY <i>R. Bennett</i>	DATE APPROVED June 2019		APPROVALS:	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E.	 S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Horizontal Alignment Plan Sta "M" 3+14.44 to 5+64.44	1/4 SECTION 3238
			CAD BY <i>P. Ferreira</i>	DIV. ENGINEER S. Townsen		 SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE			PROJECT NO. T00728 E11115
			CHECKED BY <i>T. Bowers</i>			 CITY ENGINEER REG. PROF. ENGR. NO. 51538PE			SHEET NO.
NO.	DATE	DESCRIPTION	APPD.						2E-8
REVISION					Expires 06/30/19				



			DESIGNED BY R. Bennett	DATE APPROVED June 2019	 digital signature	APPROVALS:  SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE  CITY ENGINEER REG. PROF. ENGR. NO. 51538PE	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E. COMMISSIONER CITY ENGINEER	 S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Horizontal Alignment Plan Sta "M" 5+64.44 to 7+00.00	174 SECTION 3238
			CAD BY P. Ferreira						PROJECT NO. T00728 E11115
			CHECKED BY T. Bowers						SHEET NO.
									2E-9
NO.	DATE	DESCRIPTION	APPD.						
REVISION									

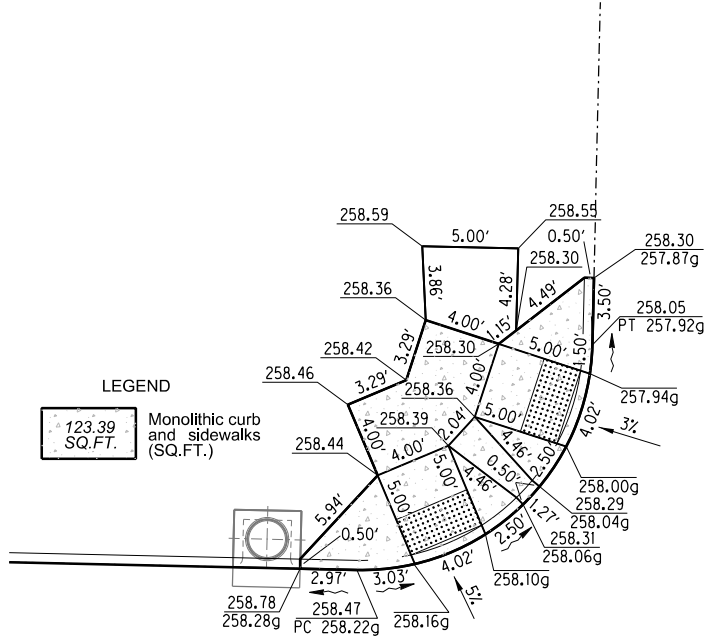
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SE 80th Ave
South of Lincoln St

Scale: 1" = 5'

LEGEND
88.83
SQ.FT. Monolithic curb
and sidewalks
(SQ.FT.)



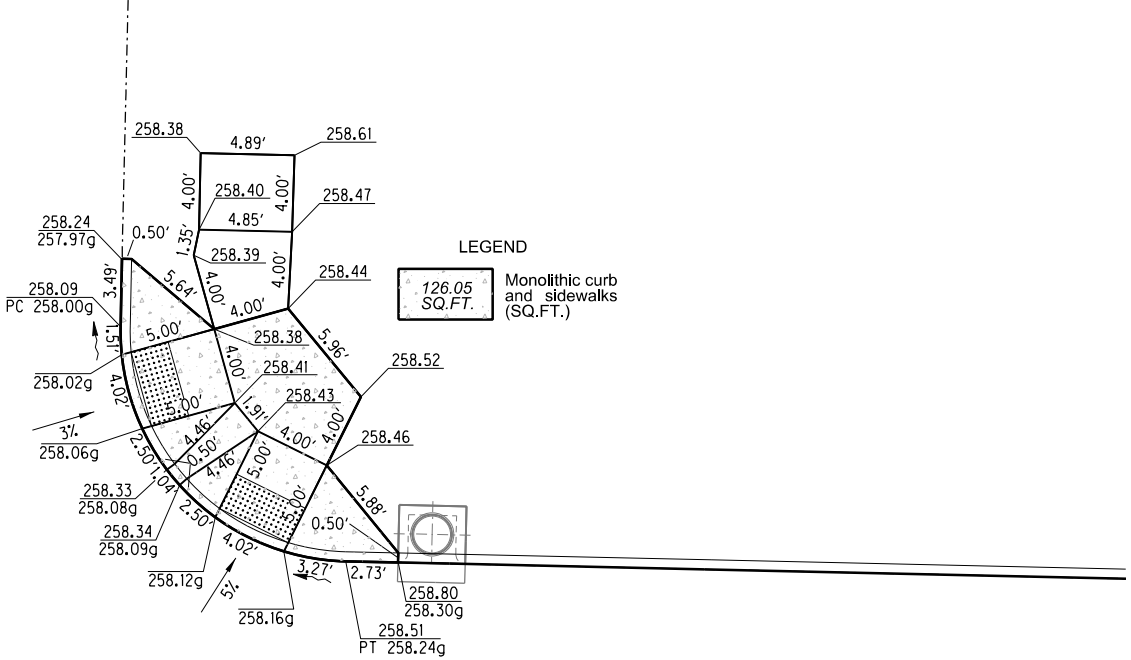
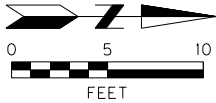
SE Lincoln St

"80" Line

Plan

SE 80th Ave at SE Lincoln St

Scale: 1" = 5'



LEGEND

126.05
SQ.FT. Monolithic curb
and sidewalks
(SQ.FT.)

DESIGNED BY
R. Bennett

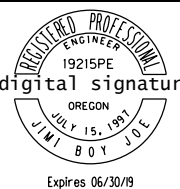
DATE APPROVED
June 2019

CAD BY
P. Ferreira

DIV. ENGINEER
S. Townsen

CHECKED BY
T. Bowers

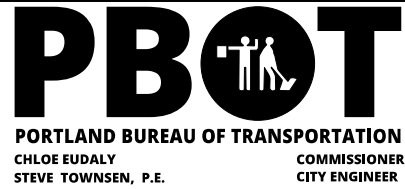
APPROVALS:



APPROVALS:

SUPERVISING ENGINEER
REG. PROF. ENGR. NO. 84470PE

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



S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.

Elevation Detail
Plans

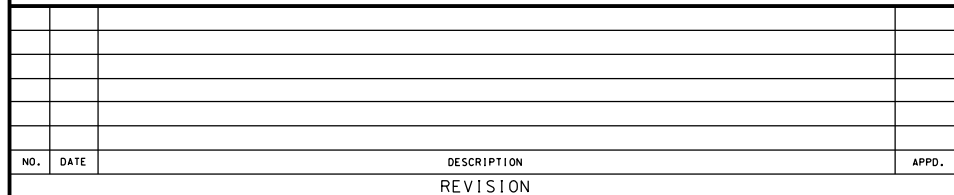
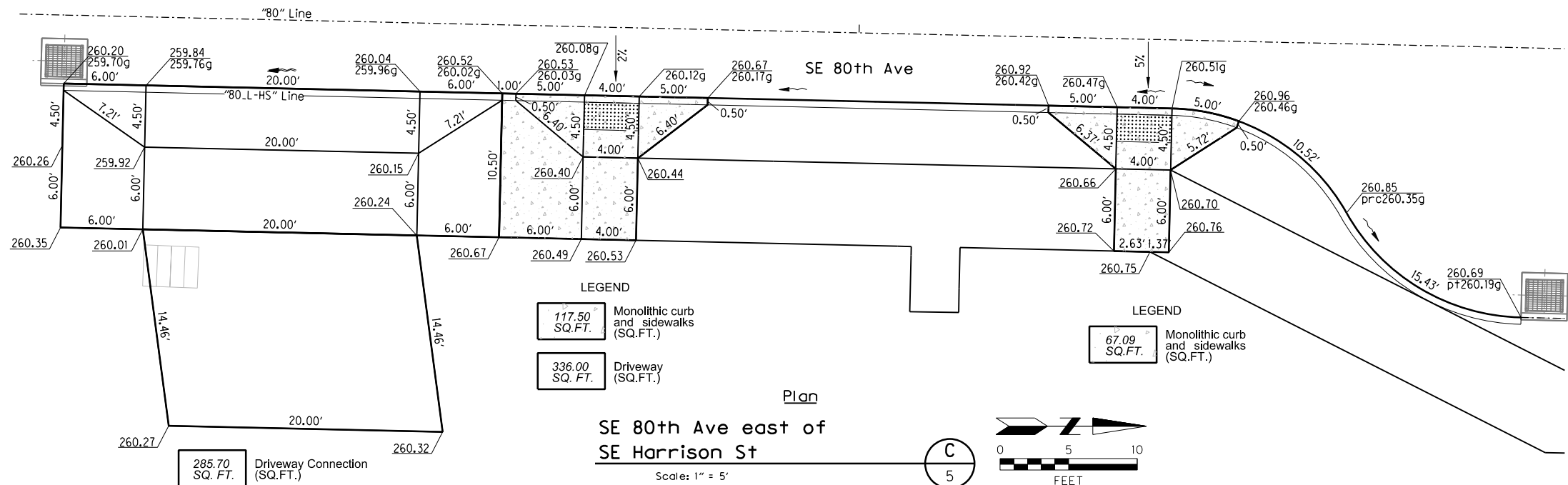
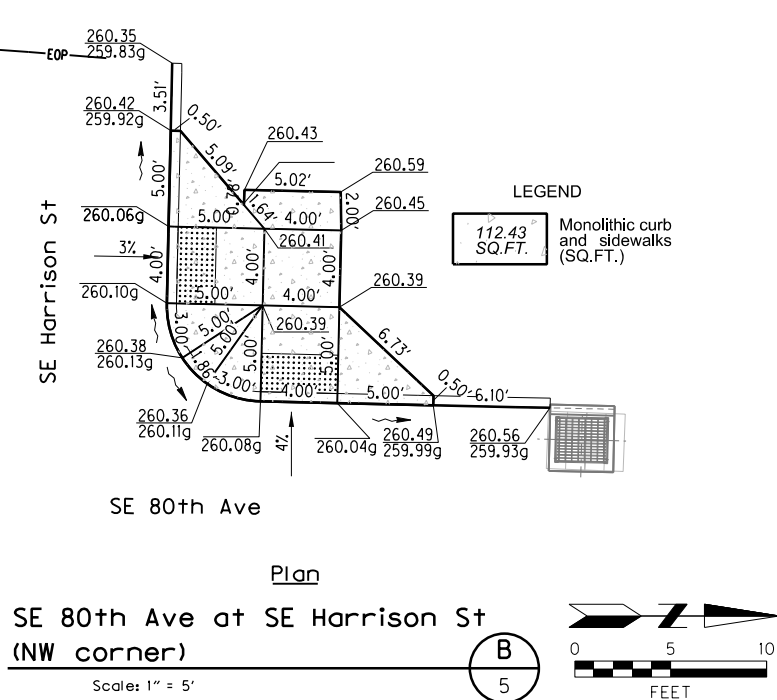
1/4 SECTION

3238

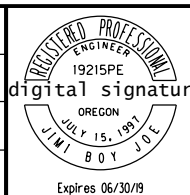
PROJECT NO.
T00728
E11115

SHEET NO.

2F-1



DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>T. Bowers</i>	



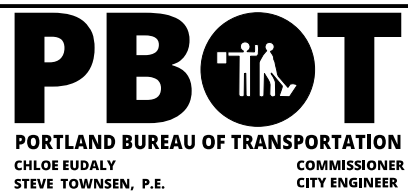
APPROVALS:

Ea.B. Montoya

SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE

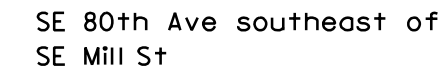
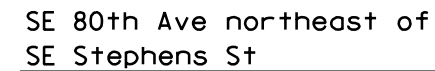
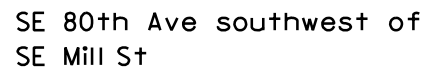
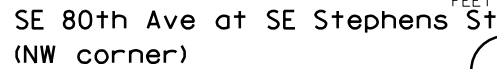
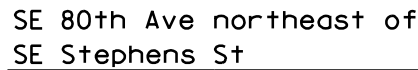
Steve Tamm

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



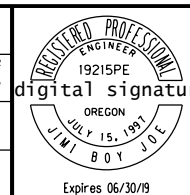
*S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.*

***Elevation Detail
Plans***



NO.	DATE	DESCRIPTION REVISION	APPD.

DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsend</i>
CHECKED BY <i>T. Bowers</i>	



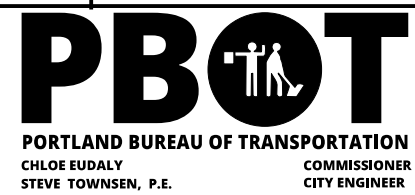
APPROVALS:

Eaßberg

SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE

Stein

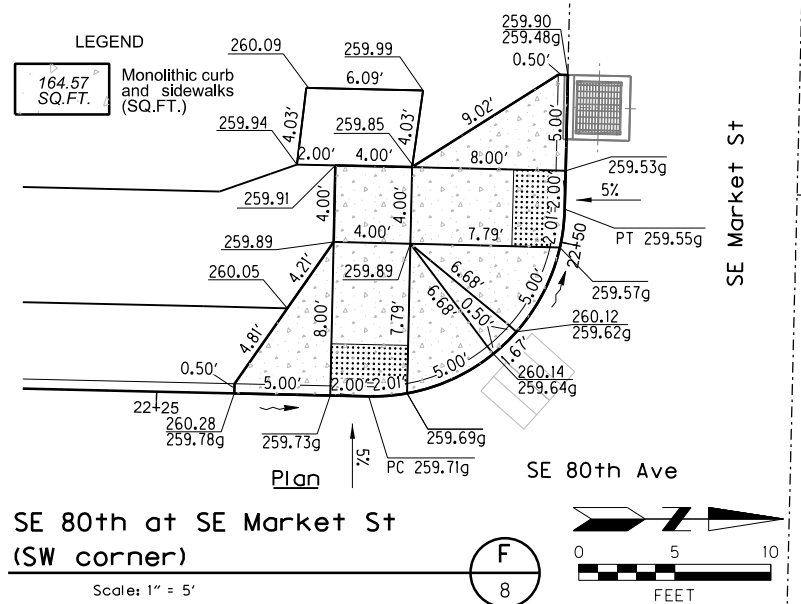
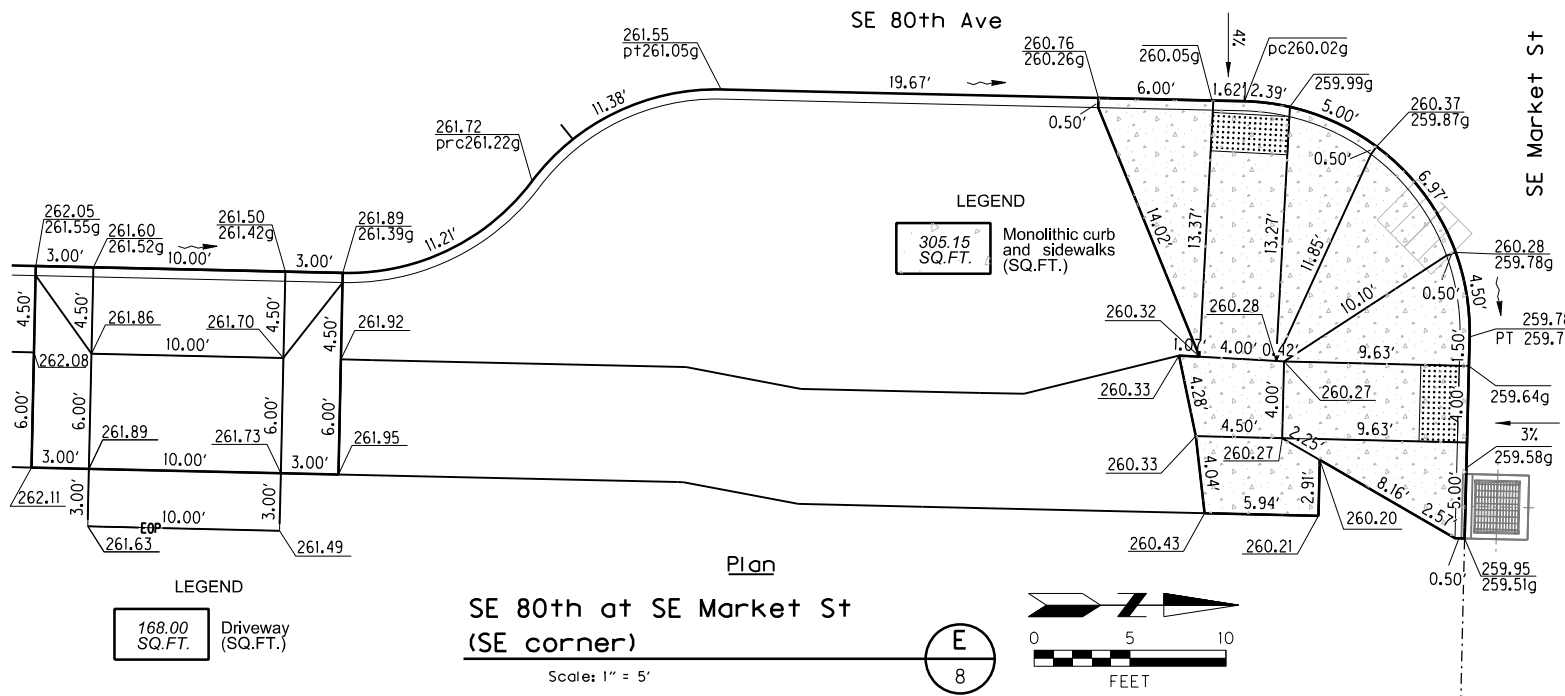
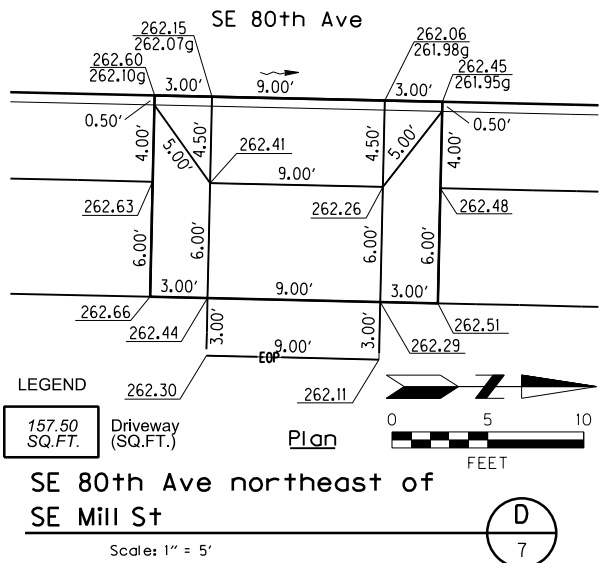
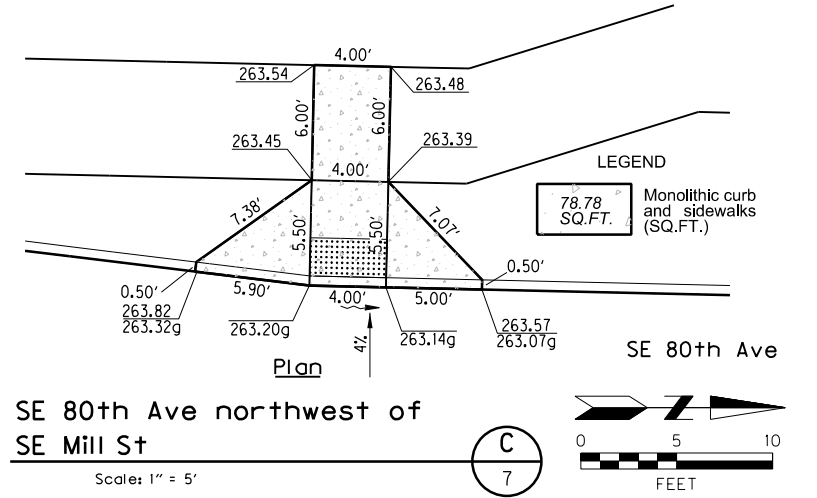
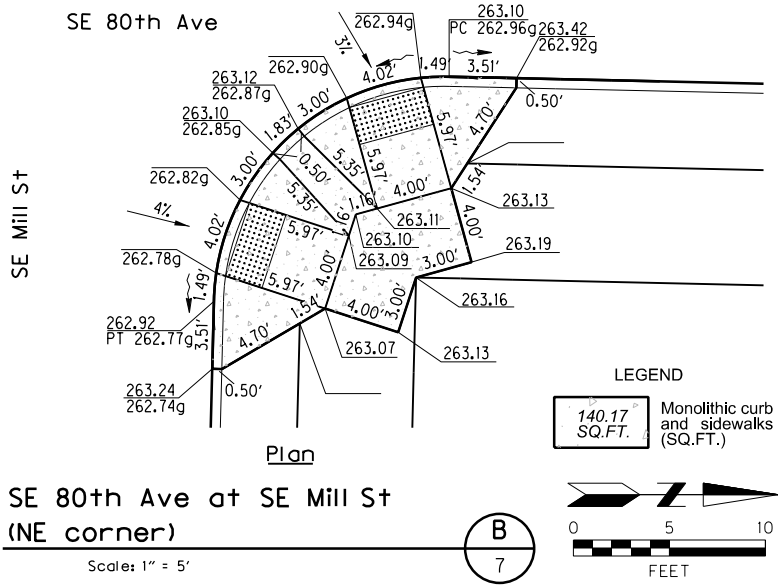
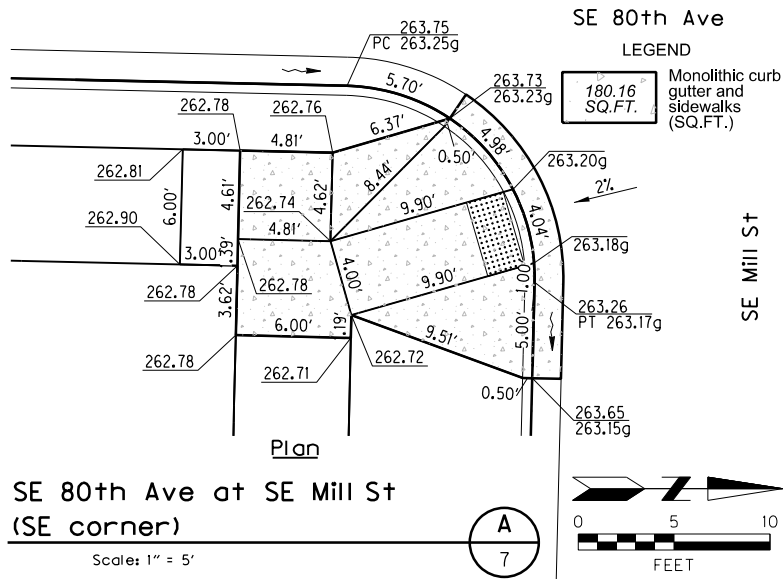
CITY ENGINEER REG. PROF. ENGR. NO. 51538PE



Elevation Detail Plans

4 SECTION	3238
PROJECT NO.	T00728 E11115
SHEET NO.	2F-3

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DESIGNED BY R. Bennett	DATE APPROVED June 2019
CAD BY P. Ferreira	DIV. ENGINEER S. Townsen
CHECKED BY T. Bowers	

REGISTERED PROFESSIONAL ENGINEER
19215PE
JULY 15, 1997
JOE
Expires 06/30/19

APPROVALS:

SUPERVISING ENGINEER
CITY ENGINEER

REG. PROF. ENGR. NO. 84470PE
REG. PROF. ENGR. NO. 51538PE

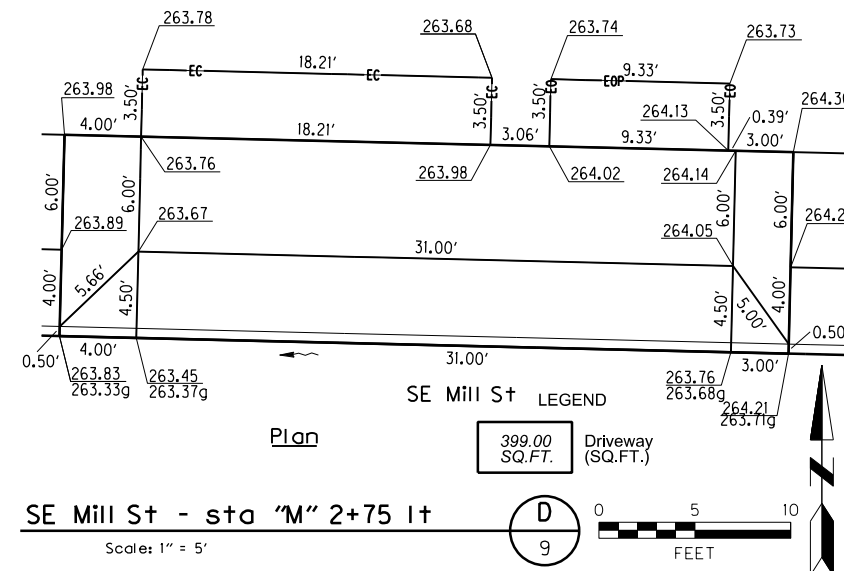
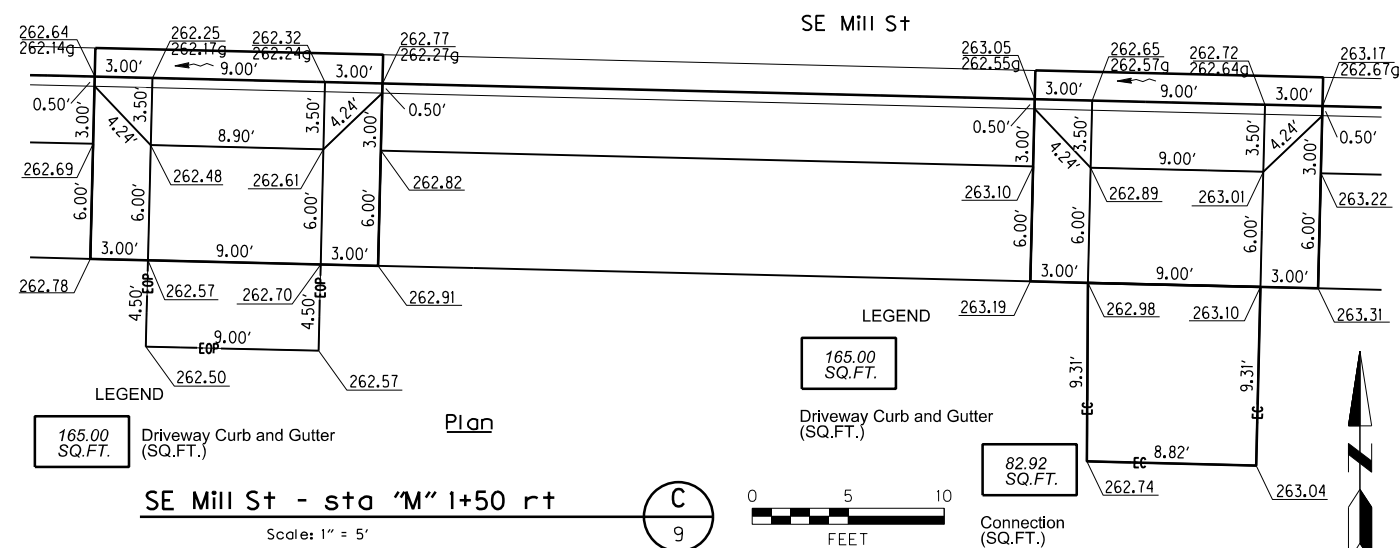
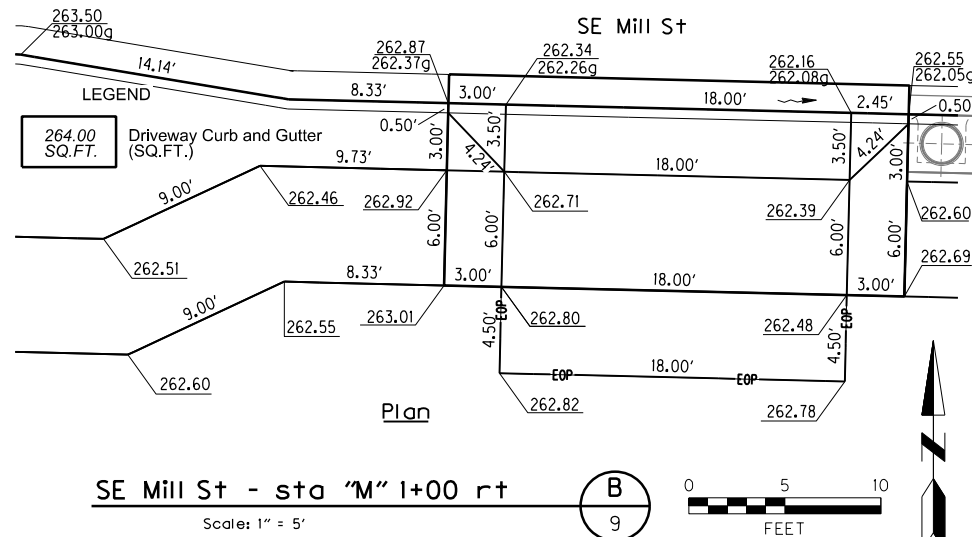
PB**OT**
PORTLAND BUREAU OF TRANSPORTATION
CHLOE EUDALY
STEVE TOWNSEN, P.E.
COMMISSIONER
CITY ENGINEER



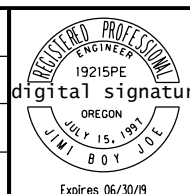
S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.

Elevation Detail
Plans

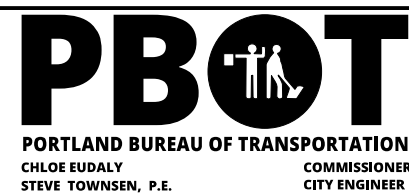
1/4 SECTION
3238
PROJECT NO.
T00728
E11115
SHEET NO.
2F-4

[illegible]

DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>T. Bowers</i>	



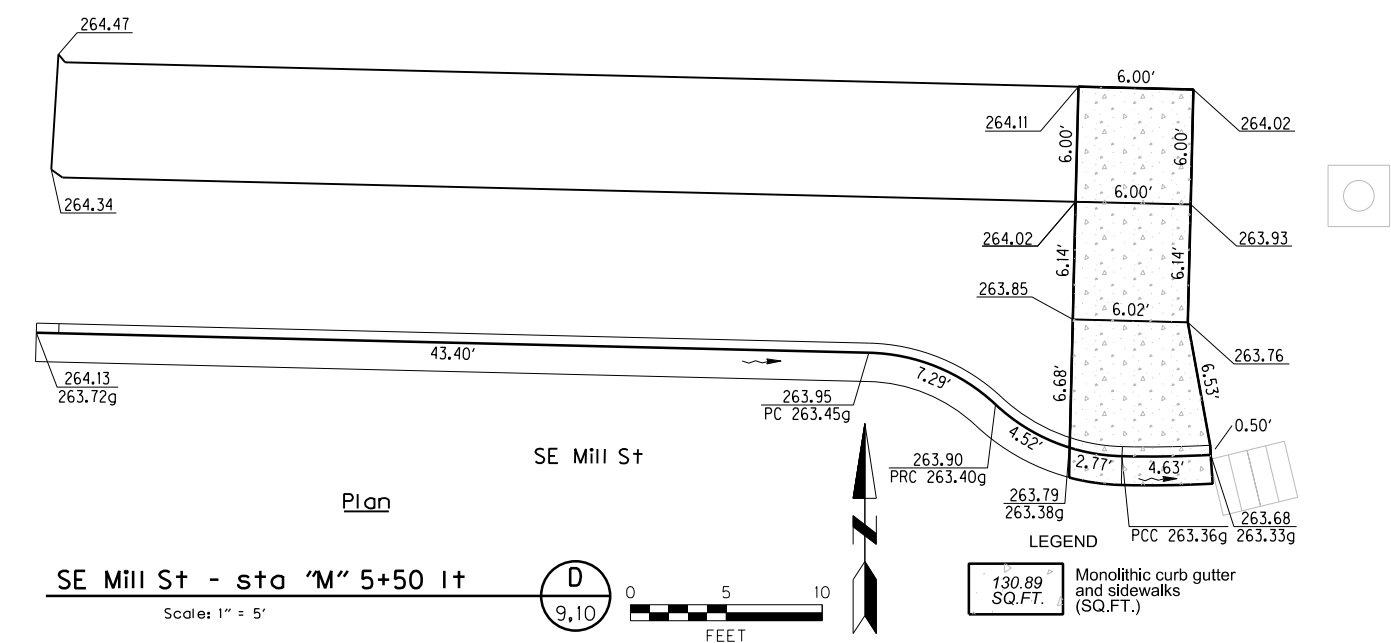
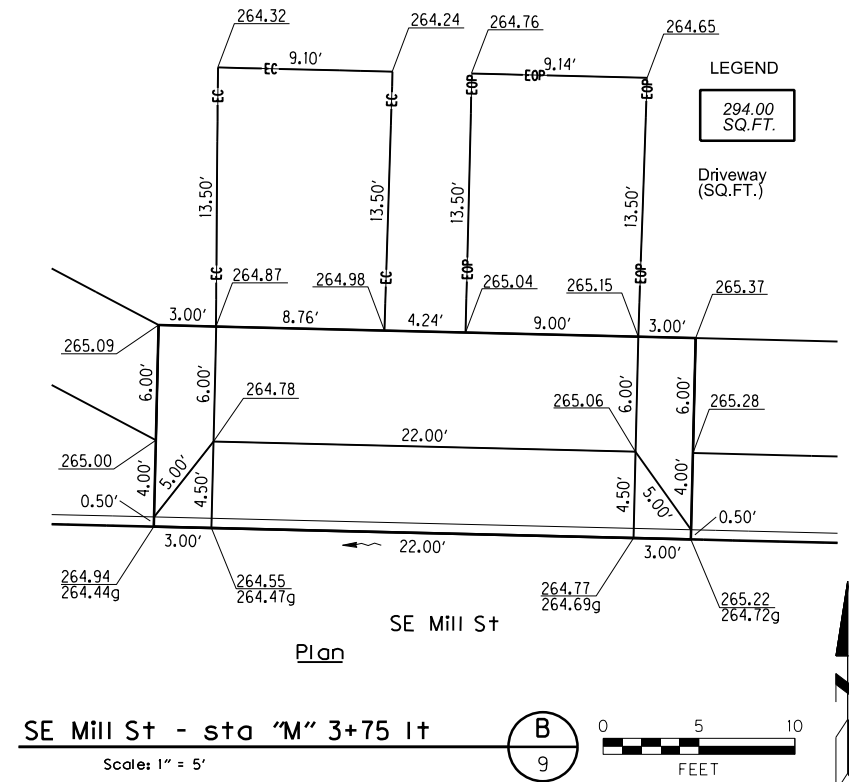
APPROVALS:	
	REG. PROF. ENGR. NO. 84470PE
SUPERVISING ENGINEER	
	REG. PROF. ENGR. NO. 51538PE
CITY ENGINEER	



*S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.*

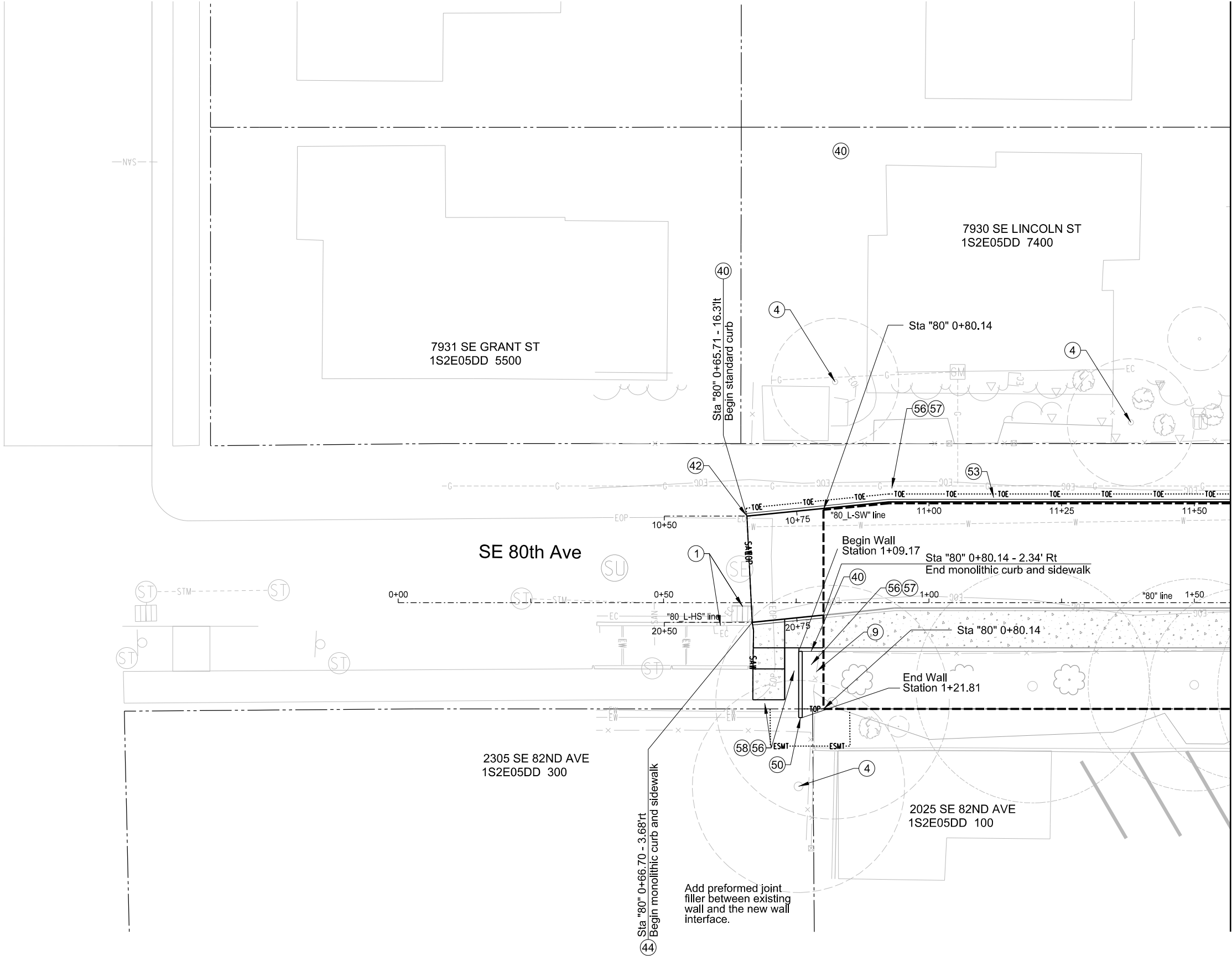
***Elevation Detail
Plans***

1/4 SECTION
3238
PROJECT NO. T00728 E11115
SHEET NO. 2F-5



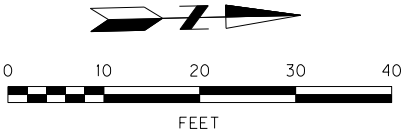
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				CAD BY P. Ferreira	DIV. ENGINEER S. Townsen		 SUPERVISING ENGINEER					REG. PROF. ENGR. NO. 84470PE	Elevation Detail Plans
				CHECKED BY T. Bowers			 CITY ENGINEER					REG. PROF. ENGR. NO. 51538PE	
NO.	DATE	DESCRIPTION		APPD.									
		REVISION											

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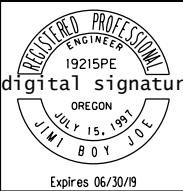
- Construction Notes
- 1 Install inlet protection - 2. See Std Drg No RD1010.
 - 4 Save tree - 3.
Orange mesh fence 3½ ' tall is required.
 - 5 Remove tree - 1.
 - 9 Remove and salvage fence.
 - 40 Construct standard curb. See Std Drg No P-540.
 - 42 Construct curb end. See Std Drg No P-544.
 - 44 Construct monolithic curb and sidewalk.
See Sht 2A-1 and Std Drg No P-551.
 - 50 Construct retaining wall. See R Sheets.
 - 53 Construct aggregate base - 6" thick.
See Sheet 2A-1
 - 56 Install topsoil - 6in thick.
 - 57 Install lawn seeding.
 - 58 Install bark mulch - 6in thick

Legend:
Construction by others
PBOT Public Works Permit



NO.	DATE	DESCRIPTION	APPD.
REVISION			

DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>T. Bowers</i>	



APPROVALS:	
SUPERVISING ENGINEER <i>Steve Townsen</i>	REG. PROF. ENGR. NO. 84470PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE

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

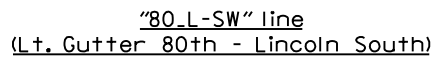
COMMISSIONER
CITY ENGINEER



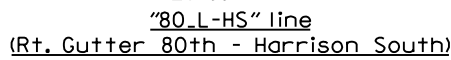
S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.

Street Plan
SE 80th Ave
north of SE Grant St

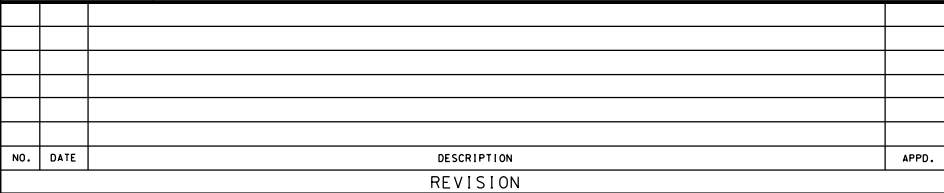
1/4 SECTION 3238
PROJECT NO. T00728 E11115
SHEET NO. 3



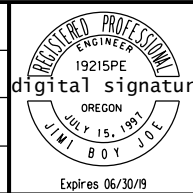
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"Scale: 1" = 1' Vert.
1" = 10' Horiz.



DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>T. Bowers</i>	



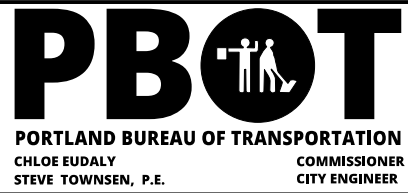
APPROVALS:

EaB Montoya

SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE

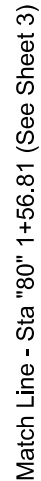
Steve Turner

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



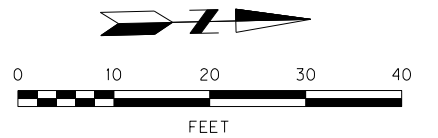
Street Profile
SE 80th Ave
north of SE Grant St

1/4 SECTION
3238
PROJECT NO. T00728 E11115
SHEET NO. 3A



- 1 Install inlet protection - 2. See Std Drg No RD1010.
- 4 Save tree - 4.
Orange mesh fence 3½' tall is required.
- 9 Remove and salvage fence.
- 25 Relocate gas facility (by others).
- 41 Construct standard curb. See Std Drg No P-540.
- 43 Construct concrete sidewalk - 4in thick.
See Std Drg No P-551.
- 44 Construct monolithic curb and sidewalk.
See Sht 2A-1 and Std Drg No P-551.
- 45 Construct monolithic sidewalk ramp.
See Std Drg Nos P-547, P-548 and RD759.
- 51 Construct stormwater facility. See D Sheets.
- 53 Construct aggregate base - 6" thick
See Sheet 2A-1
- 56 Install topsoil - 6in thick.
- 57 Install lawn seeding.
- 60 Construct trench resurfacing.
See Std Drg No P-505.

☐ Construction by others
PBOT Public Works Permit



DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>T. Bowers</i>	

REGISTERED PROFESSIONAL
ENGINEER
19215PE
digital signature

APPROVALS:

Eva B. Hentzen

REGISTERED ENGINEER REG. NO. 5402 EXP. NO. 04/2005

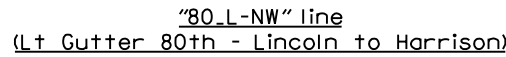
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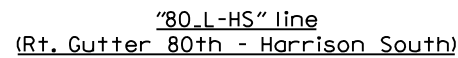
Street Plan
SE 80th Ave
at SE Lincoln St

3238

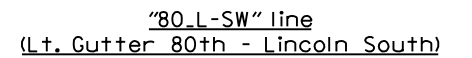
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T00728
E11115



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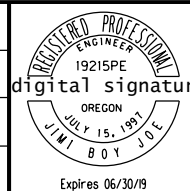
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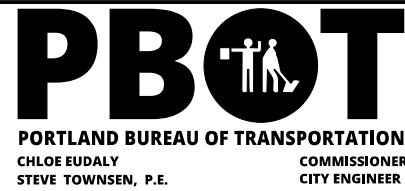
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[illegible]

DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>T. Bowers</i>	



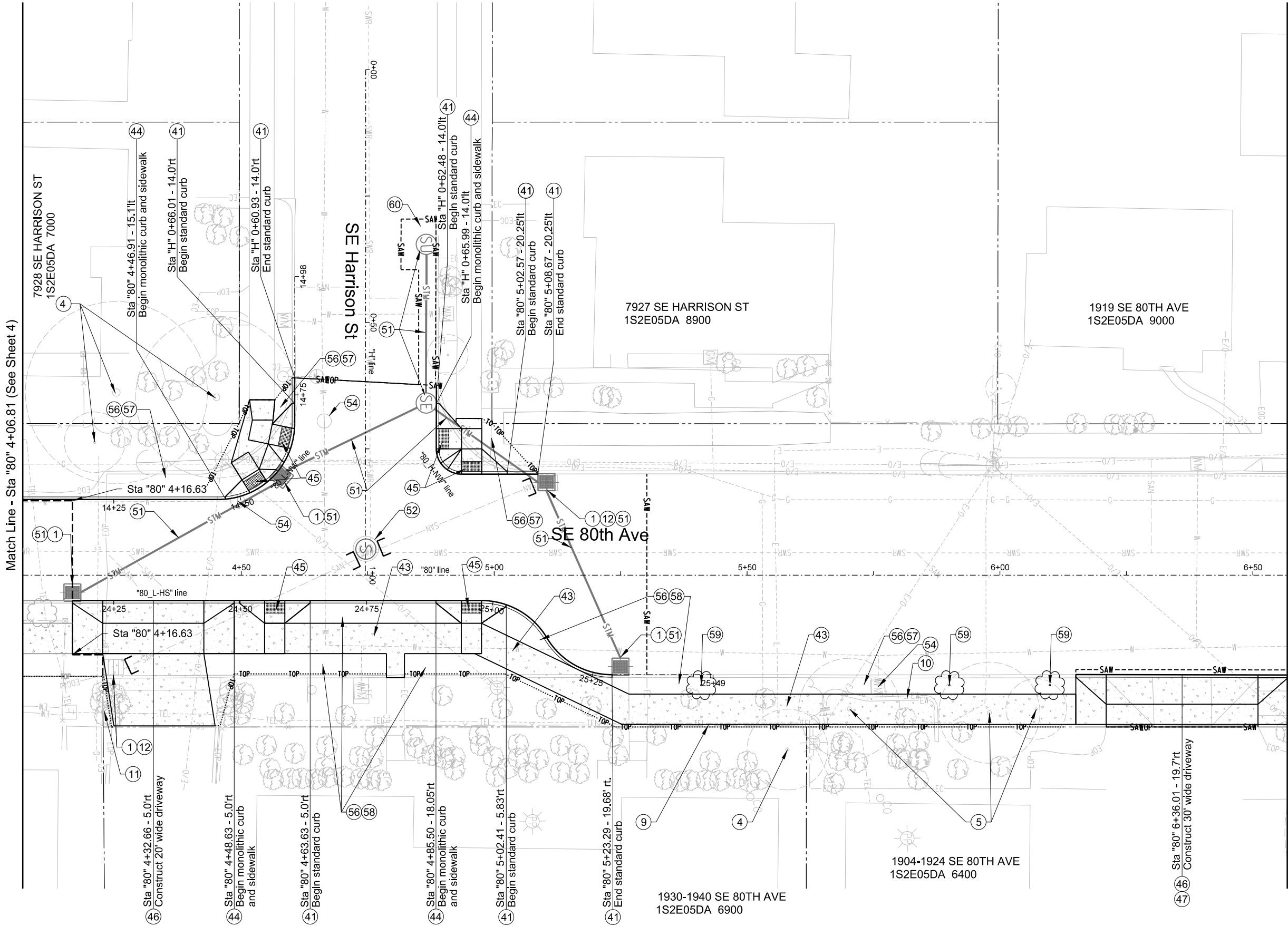
APPROVALS:	
<i>Ea B. Montgen</i>	
3 SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 84470PE
<i>Steve Towne</i>	
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE



Street Profile
SE 80th Ave
at SE Lincoln St

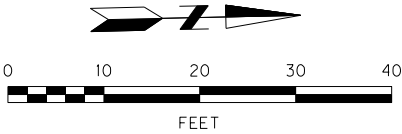
1/4 SECTION
3238
PROJECT NO. T00728 E11115
SHEET NO. 4A

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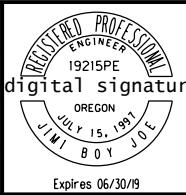
- Construction Notes
- 1 Install inlet protection - 4. See Std Drg No RD1010.
 - 4 Save tree - 4.
Orange mesh fence 3½' tall is required.
 - 5 Remove tree - 3.
 - 9 Remove and salvage fence.
 - 10 Remove and salvage segemental retaining wall.
 - 11 Remove and salvage commercial signs.
 - 12 Remove inlet and plug inlet pipe on both ends - 2.
See D sheets.
 - 41 Construct standard curb. See Std Drg No P-540.
 - 43 Construct concrete sidewalk - 4in thick.
See Std Drg No P-551.
 - 44 Construct monolithic curb and sidewalk.
See Std Drg No P-551.
 - 45 Construct monolithic sidewalk ramp.
See Std Drg Nos P-547, P-548 and RD759.
 - 46 Construct concrete driveway.
See 2F sheets and Std Drg No P-528.
 - 47 Construct AC driveway connection.
See Std Drg No P-536.
 - 51 Construct stormwater facility. See D Sheets.
 - 52 Adjust manhole (minor) - 1.
See Std. Drg. No. P-507
 - 54 Adjust box - 3.
 - 56 Install topsoil - 6in thick.
 - 57 Install lawn seeding.
 - 58 Install bark mulch - 6in thick.
 - 59 Plant tree (by others).
 - 60 Construct trench resurfacing.
See Std Drg No P-505.

Legend:
Construction by others
PBOT Public Works Permit

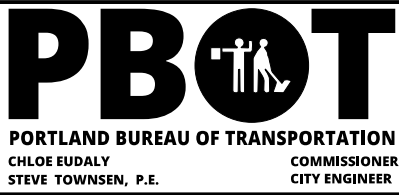


NO.	DATE	DESCRIPTION	APPRO.
REVISION			

DESIGNED BY R. Bennett	DATE APPROVED June 2019
CAD BY P. Ferreira	DIV. ENGINEER S. Townsen
CHECKED BY T. Bowers	



APPROVALS:	
SUPERVISING ENGINEER <i>Steve Townsen</i>	REG. PROF. ENGR. NO. 84470PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE



S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.

Street Plan
SE 80th Ave
at SE Harrison St

1/4 SECTION 3238
PROJECT NO. T00728 E11115
SHEET NO. 5

Plot Date: 6/24/2019 9:42:09 AM Filename: S:_LIDesign\T00728 - SE 80th Ave and Mill St LID\CAD\PLAN_SHEETS\SH 05A STREET PROFILE\PLOT_SHT_05A.dgn

WARNING

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1

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

NO.	DATE	DESCRIPTION	APPD.	
REVISION				

DESIGNED BY	R. Bennett	DATE APPROVED	June 2019
CAD BY	P. Ferreira	DIV. ENGINEER	S. Townsen
CHECKED BY	T. Bowers		
APPD.			

REGISTERED PROFESSIONAL ENGINEER

19215PE

OREGON

JULY 15, 1991

JOE

Expires 06/30/19

digital signature

APPROVALS:	
SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 84470PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE

PBOT

PORTLAND BUREAU OF TRANSPORTATION

CHLOE EUDALY

STEVE TOWNSEN, P.E.

COMMISSIONER

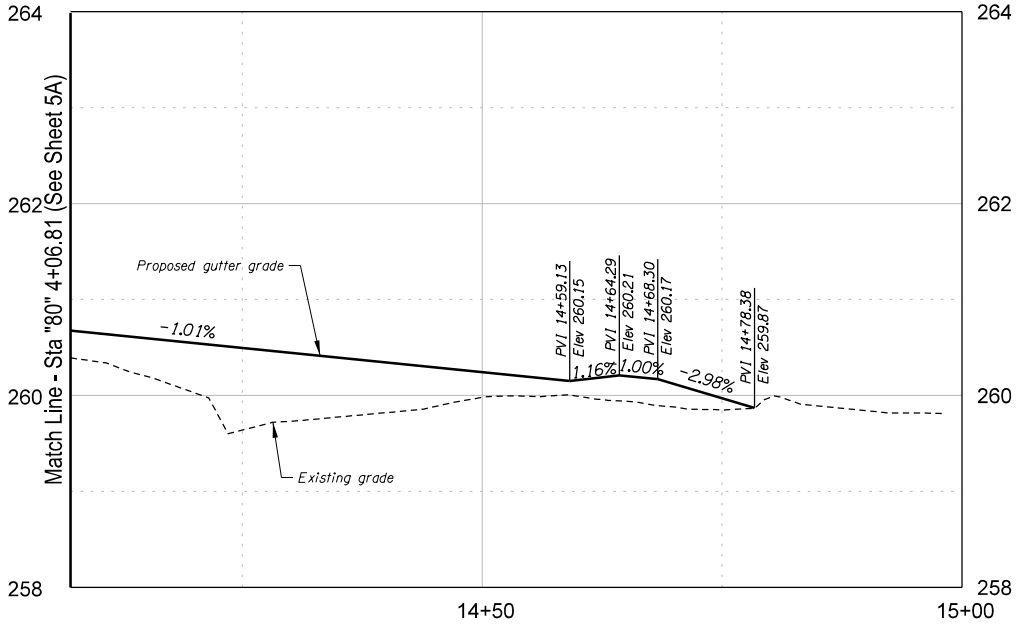
CITY ENGINEER



S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.

Street Profile
SE 80th Ave
at SE Harrison St

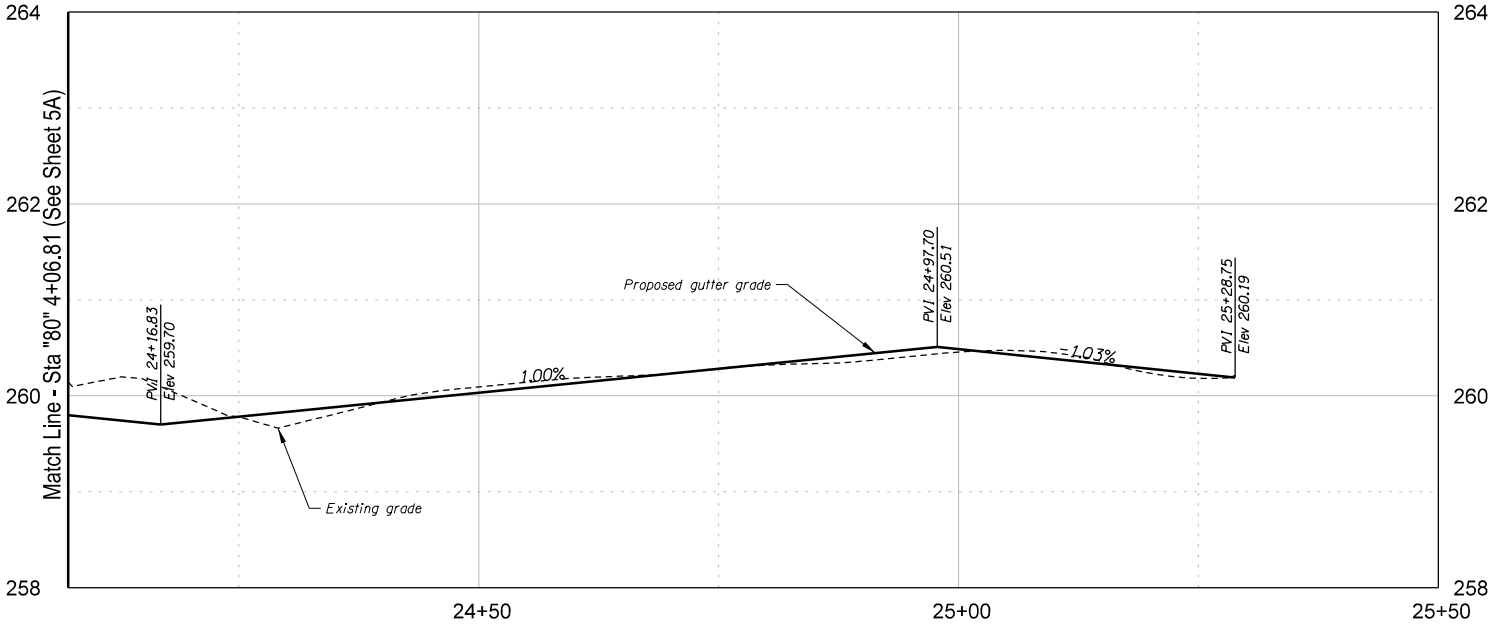
1/4 SECTION
3238
PROJECT NO. T00728 E11115
SHEET NO.
5A



"80_L-NW" line
(Lt. Gutter 80th Lincoln - Harrison)

Profile

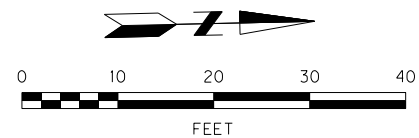
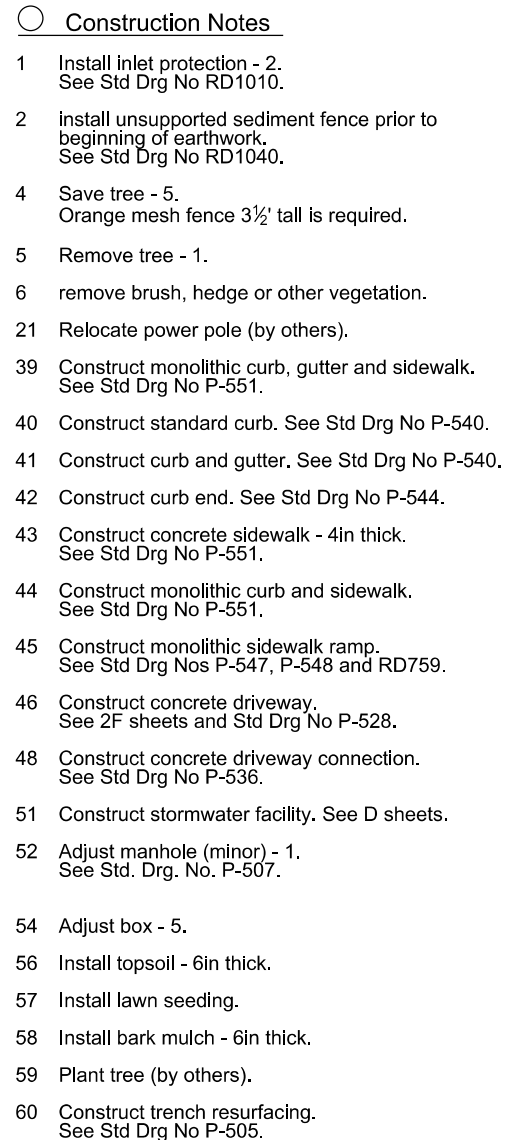
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1" = 10' Horiz.



"80_L-HS" line
(Rt. Gutter 80th - Harrison South)

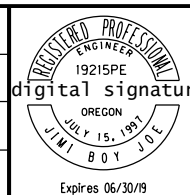
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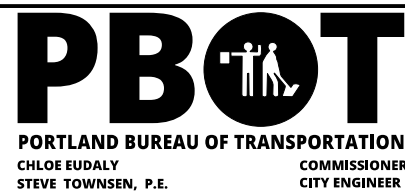


NO.	DATE	DESCRIPTION	APPD.
		REVISION	

DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>T. Bowers</i>	



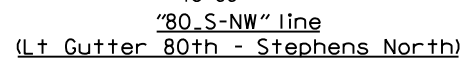
APPROVALS:	
	
SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 84470PE
	
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE



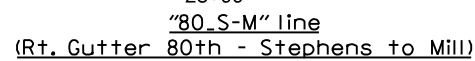
*S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.*

Street Plan
SE 80th Ave
at SE Stephens St

1/4 SECTION
3238
PROJECT NO. T00728 E11115
SHEET NO. 6



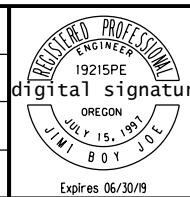
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1" = 10' Horiz.



"Scale: 1" = 1' Vert.
1" = 10' Horiz.

NO.	DATE	DESCRIPTION	APPD.
REVISION			

DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>T. Bowers</i>	



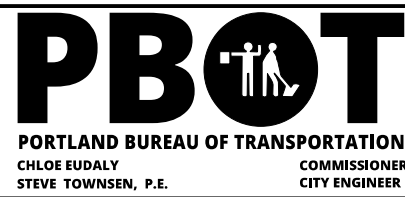
APPROVALS:

Era B. Montoya

SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE

Steve Tamm

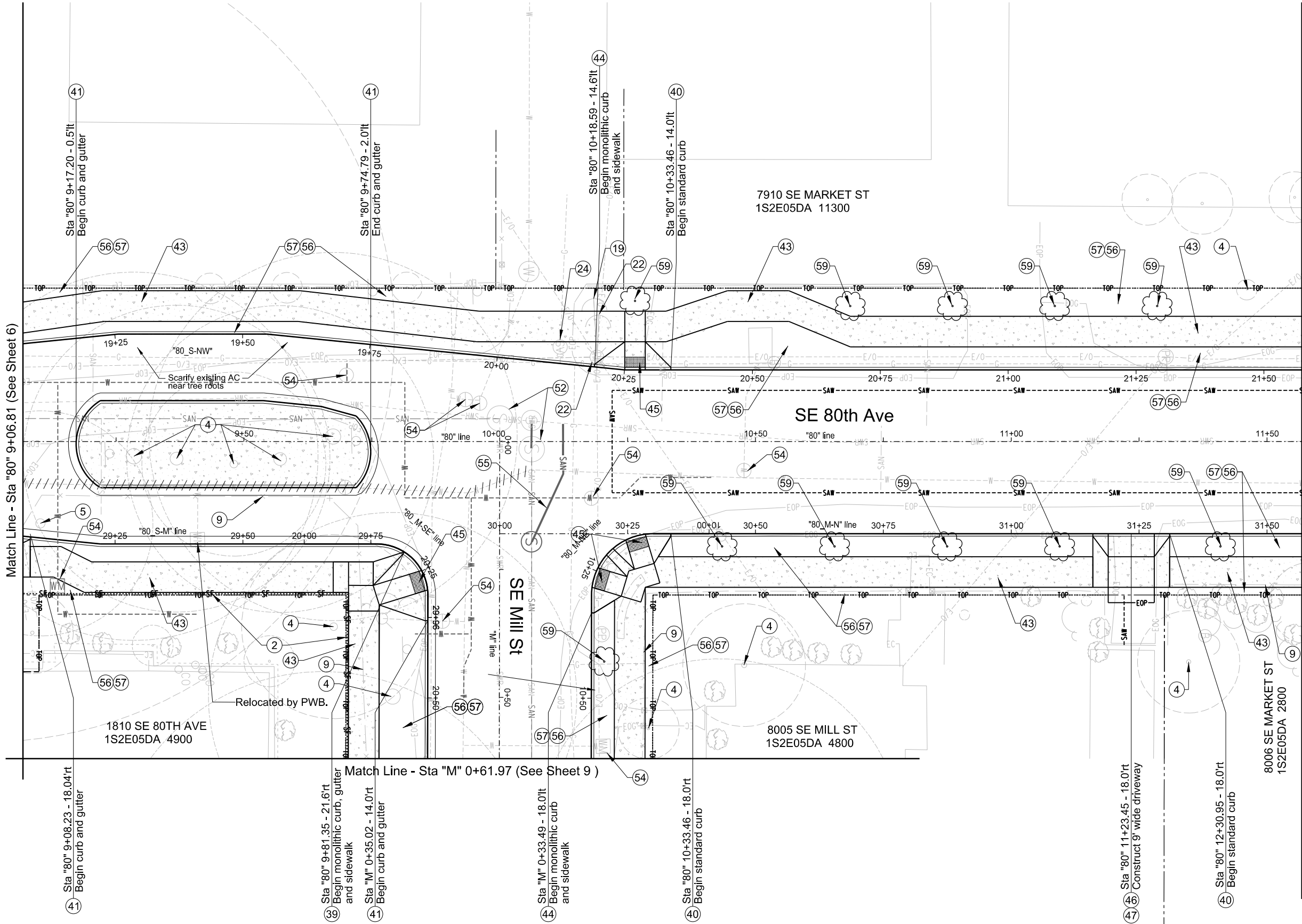
CITY ENGINEER REG. PROF. ENGR. NO. 51538PE



Street Profile
SE 80th Ave
at SE Stephens St

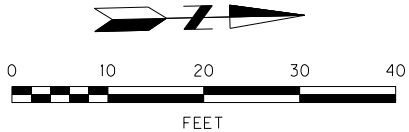
1/4 SECTION	3238
	PROJECT NO. T00728 E11115
	SHEET NO. 6A

Plot Date: 6/24/2019 9:42:21 AM
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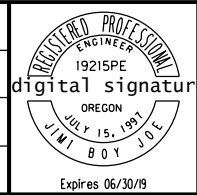
Construction Notes

- 2 Install unsupported silt fence prior to beginning of earthwork. See Std Drg No RD1040.
- 4 Save tree - 11. Orange mesh fence 3½' tall is required.
- 5 Remove tree - 1.
- 9 Remove and salvage fence.
- 19 Relocate cable television guy wire (by others).
- 22 Relocate telephone guy wires (by others).
- 24 Adjust gas facility (by others).
- 39 Construct monolithic curb, gutter and sidewalk. See Std Drg No P-551.
- 40 Construct standard curb. See Std Drg No P-540.
- 41 Construct curb and gutter. See Std Drg No P-540.
- 43 Construct concrete sidewalk - 4in thick. See Std Drg No P-551.
- 44 Construct monolithic curb and sidewalk. See Std Drg No P-551.
- 45 Construct monolithic sidewalk ramp. See Std Drg Nos P-547, P-548 and RD759.
- 46 Construct concrete driveway. See 2F sheets and Std Drg No P-528.
- 47 Construct AC driveway connection. See Std Drg No P-536.
- 52 Adjust manhole (minor) - 2. See Std. Drg. No. P-507
- 54 Adjust box - 7.
- 55 Construct sewer facility. See SA sheets.
- 56 Install topsoil - 6in thick.
- 57 Install lawn seeding.
- 59 Plant tree (by others).



NO.	DATE	DESCRIPTION	APPRO.
REVISION			

DESIGNED BY R. Bennett	DATE APPROVED June 2019
CAD BY P. Ferreira	DIV. ENGINEER S. Townsen
CHECKED BY T. Bowers	



APPROVALS:	
SUPERVISING ENGINEER <i>R. Bennett</i>	REG. PROF. ENGR. NO. 84470PE
CITY ENGINEER <i>Steve Townsen</i>	REG. PROF. ENGR. NO. 51538PE

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

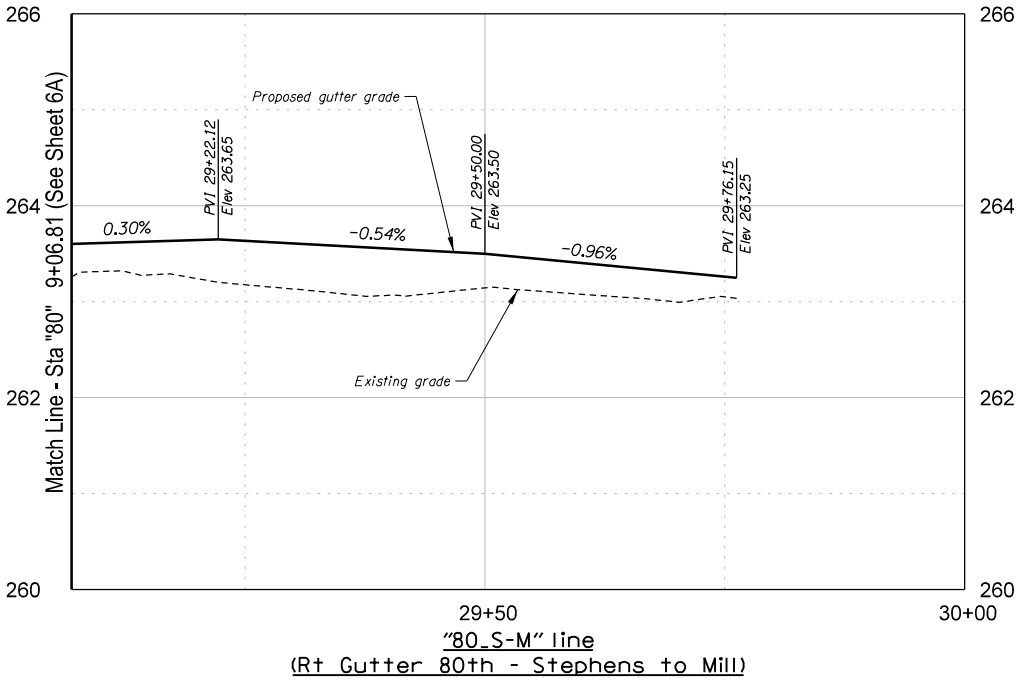
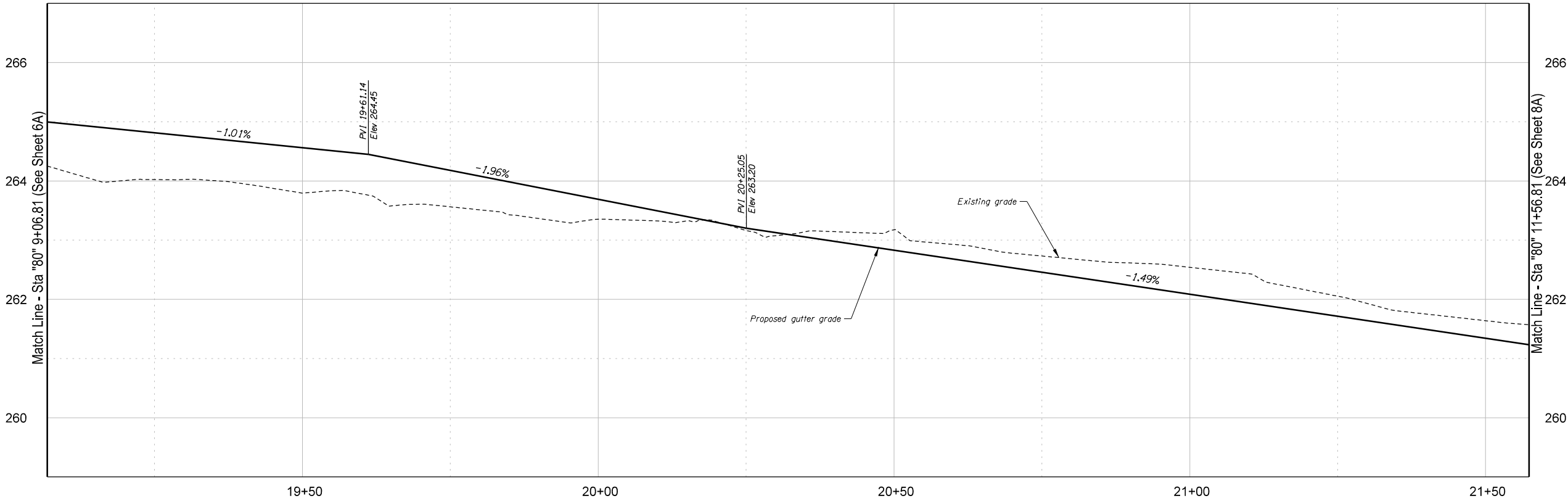


S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.

Street Plan
SE 80th Ave
at SE Mill St

1/4 SECTION 3238
PROJECT NO. T00728 E11115
SHEET NO. 7

Plot Date: 6/24/2019 9:22:14 AM
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WARNING

0 1/2 1

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

NO.	DATE	DESCRIPTION	APPD.
		REVISION	

DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>T. Bowers</i>	

REGISTERED PROFESSIONAL ENGINEER
19215PE
OREGON
JULY 15, 1997
JOE
Expires 06/30/19

APPROVALS:	
SUPERVISING ENGINEER	<i>Joe B. Antognini</i> REG. PROF. ENGR. NO. 84470PE
CITY ENGINEER	<i>Steve Townsen</i> REG. PROF. ENGR. NO. 51538PE

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

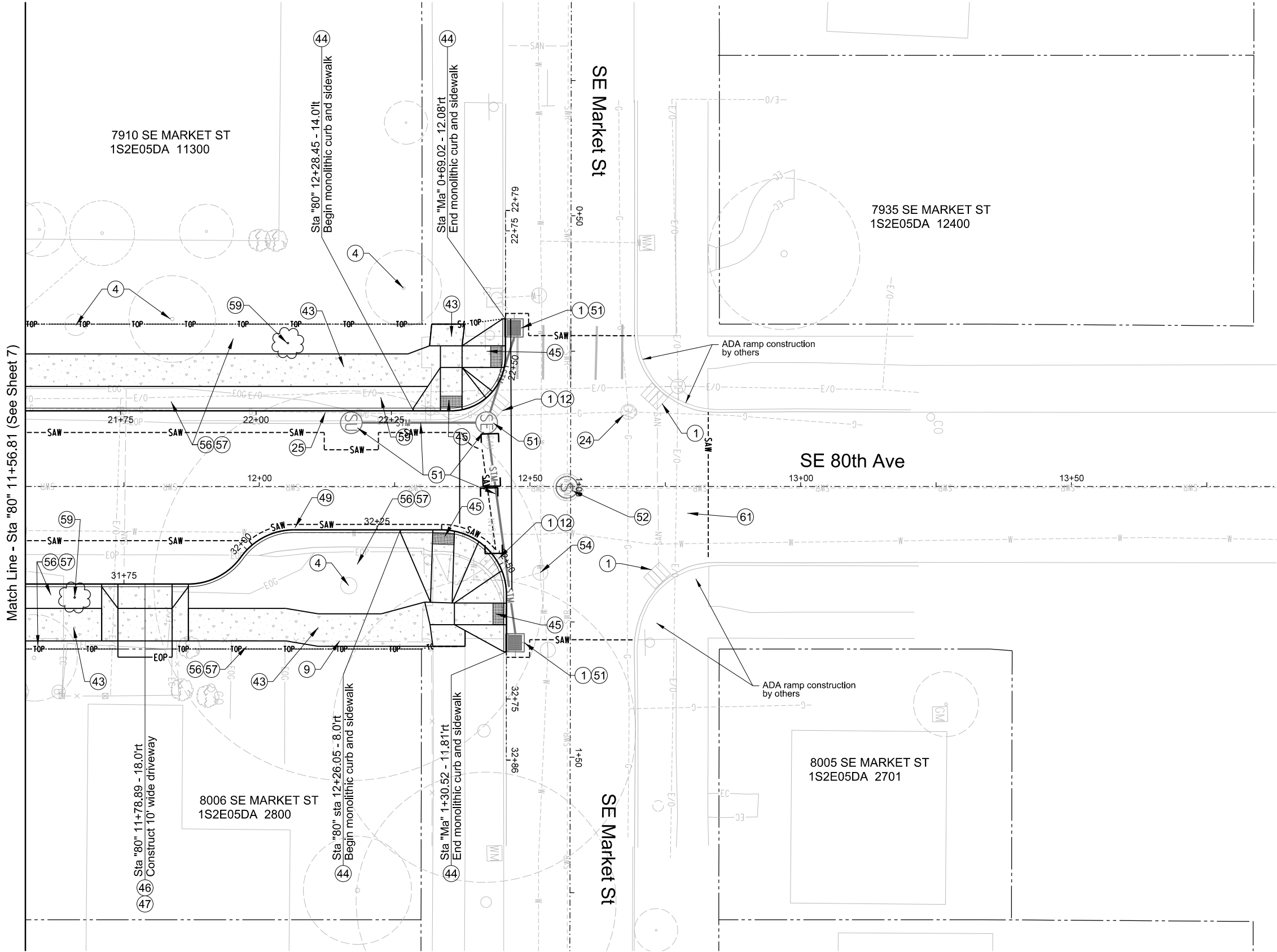


S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.

Street Profile
SE 80th Ave
at SE Mill St

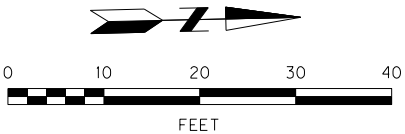
1/4 SECTION 3238
PROJECT NO. T00728 E11115
SHEET NO. 7A

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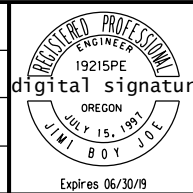
Construction Notes

- 1 Install inlet protection - 6. See Std Drg No RD1010.
- 4 Save tree - 4.
Orange mesh fence 3½' tall is required.
- 9 Remove and salvage fence.
- 12 Remove inlet and plug inlet pipe at both ends - 2.
See D sheets.
- 24 Adjust gas facility (by others).
- 25 Relocate gas facility (by others).
- 43 Construct concrete sidewalk - 4in thick. See Std Drg No P-551.
- 44 Construct monolithic curb and sidewalk. See Std Drg No P-551.
- 45 Construct monolithic sidewalk ramp.
See Std Drg Nos P-547, P-548 and RD759.
- 46 Construct concrete driveway. See 2F sheets and Std. Drg. No. P-528.
- 47 Construct AC driveway connection. See Std. Drg. No. P-536.
- 49 Construct 13" AC pavement repair. See Std. Drg. No. P-506.
- 51 Construct stormwater facility. See D Sheets.
- 52 Adjust manhole (minor) -1.
See Std. Drg. No. P-507
- 54 Adjust box -1.
- 56 Install topsoil 6in thick.
- 57 Install lawn seeding.
- 59 Plant tree (by others).
- 61 Construct 6" AC Pavement on 8" thick aggregate base.



NO.	DATE	DESCRIPTION	APPD.
REVISION			

DESIGNED BY R. Bennett	DATE APPROVED June 2019
CAD BY P. Ferreira	DIV. ENGINEER S. Townsen
CHECKED BY T. Bowers	



APPROVALS:	
SUPERVISING ENGINEER <i>R. Bennett</i>	REG. PROF. ENGR. NO. 84470PE
CITY ENGINEER <i>Steve Townsen</i>	REG. PROF. ENGR. NO. 51538PE

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

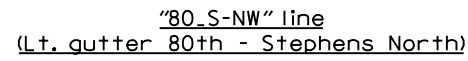
COMMISSIONER
CITY ENGINEER



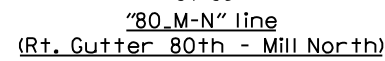
S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.

Street Plan
SE 80th Ave
at SE Market St

1/4 SECTION 3238
PROJECT NO. T00728 E11115
SHEET NO. 8

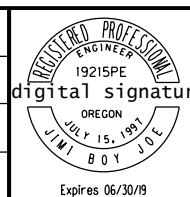


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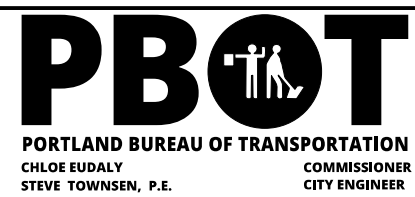


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1" = 10' Horiz.

DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>T. Bowers</i>	

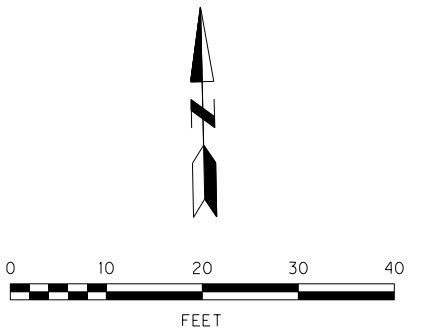
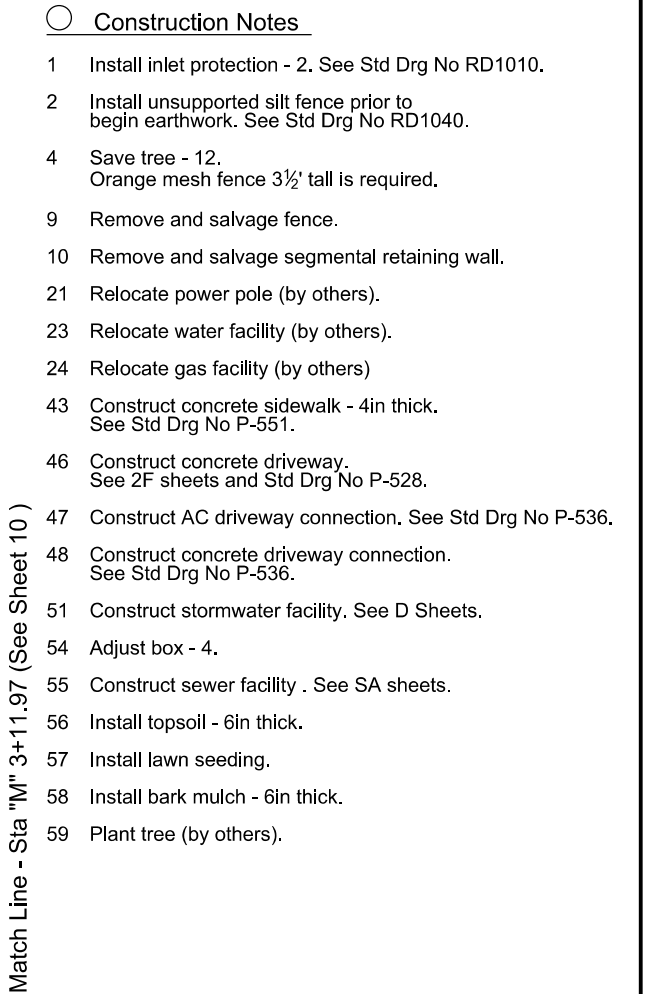


APPROVALS:	
	REG. PROF. ENGR. NO. 84470PE
SUPERVISING ENGINEER	
	REG. PROF. ENGR. NO. 51538PE
CITY ENGINEER	



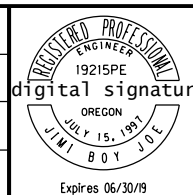
Street Profile
SE 80th Ave
at SE Market St

74 SECTION	3238
PROJECT NO.	T00728 E11115
SHEET NO.	8A



NO.	DATE	DESCRIPTION	APPD.
		REVISION	

DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>
CHECKED BY <i>T. Bowers</i>	



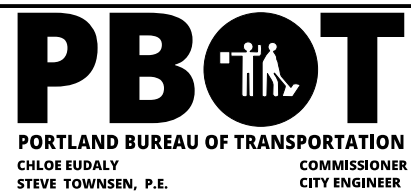
APPROVALS:

Eugene B. Hutzinger

SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE

Steve Towne

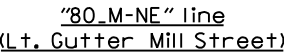
CITY ENGINEER REG. PROF. ENGR. NO. 51538PE



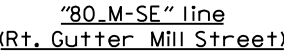
*S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.*

**Street Plan
SE Mill St
east of SE 80th Ave**

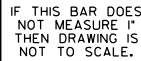
74 SECTION	3238
PROJECT NO.	T00728 E11115
SHEET NO.	9



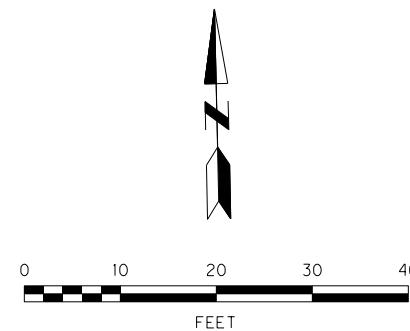
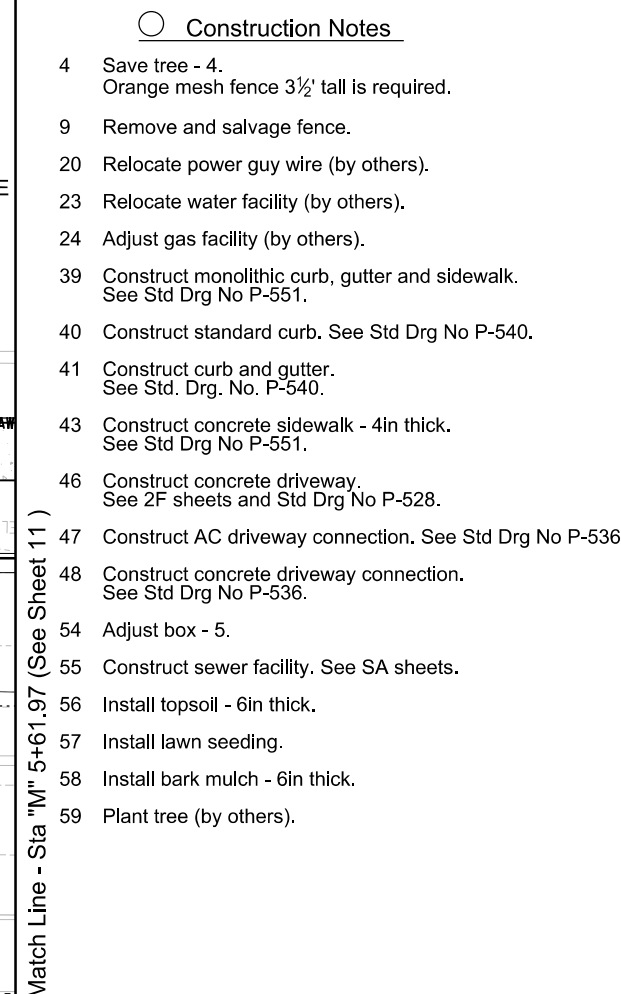
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1" = 10' Horiz.



Scale: 1" = 1' Vert.
1" = 10' Horiz.



			DESIGNED BY <i>R. Bennett</i>	DATE APPROVED <i>June 2019</i>		APPROVALS:			S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Street Profile SE Mill St east of SE 80th Ave	1/4 SECTION 3238
			CAD BY <i>P. Ferreira</i>	DIV. ENGINEER <i>S. Townsen</i>		<i>Esa B. Antigen</i> SUPERVISING ENGINEER REG. PROF. ENGR. NO. 84470PE				PROJECT NO. T00728 E11115
			CHECKED BY <i>T. Bowers</i>			<i>Steve Townsen</i> CITY ENGINEER REG. PROF. ENGR. NO. 51538PE				SHEET NO.
NO.	DATE	DESCRIPTION	APPD.							9A
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Plot Date: 6/24/2019 9:42:38 AM Filename: S:_L\Design\T00728 - SE 80th Ave and Mill St_LID\CAD\PLAN_SHEETS\SH10A STREET PROFILE\PLOT_SHT_10A.dgn

WARNING

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

NO.	DATE	DESCRIPTION	APPD.	
REVISION				

DESIGNED BY	R. Bennett	DATE APPROVED	June 2019
CAD BY	P. Ferreira	DIV. ENGINEER	S. Townsen
CHECKED BY	T. Bowers		
APPD.			

REGISTERED PROFESSIONAL ENGINEER

19215PE

digital signature

OREGON

JULY 15, 1997

JOE

Expires 06/30/19

APPROVALS:	
SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 84470PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE

PBOT

PORTLAND BUREAU OF TRANSPORTATION

CHLOE EUDALY

STEVE TOWNSEN, P.E.

COMMISSIONER

CITY ENGINEER



S.E. 80th Avenue & S.E. Mill Street LID

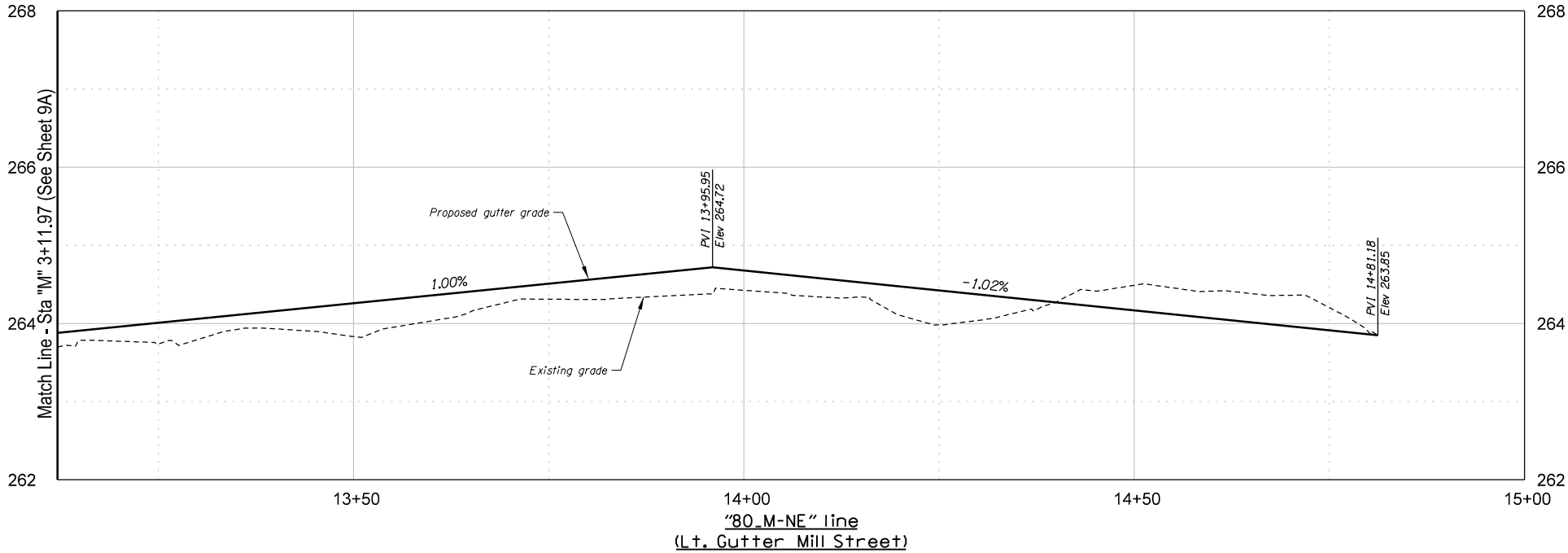
S.E. Lincoln St. to S.E. Market St.

Street Profile

SE Mill St

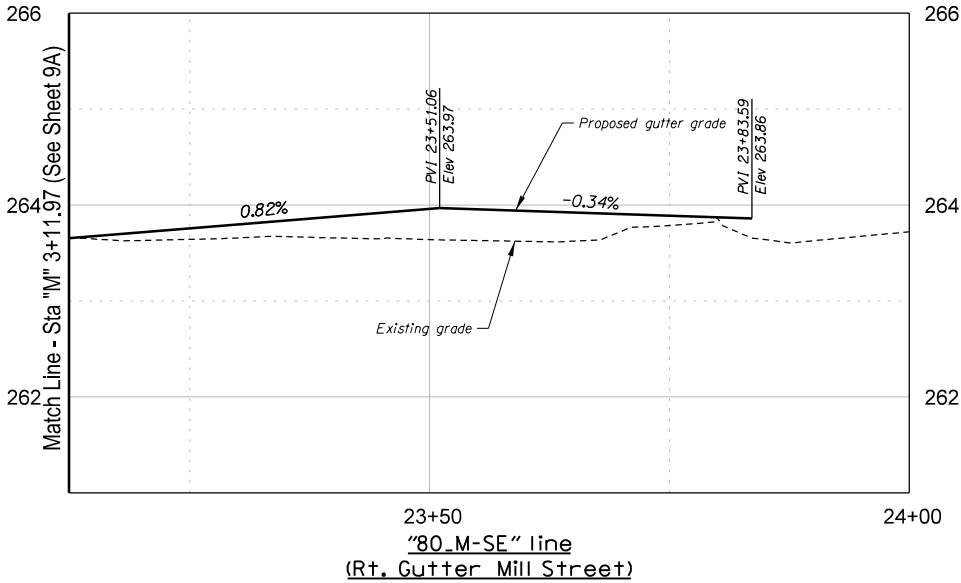
midway SE 80th Ave & SE 82nd Ave

1/4 SECTION
3238
PROJECT NO. T00728
E11115
SHEET NO.



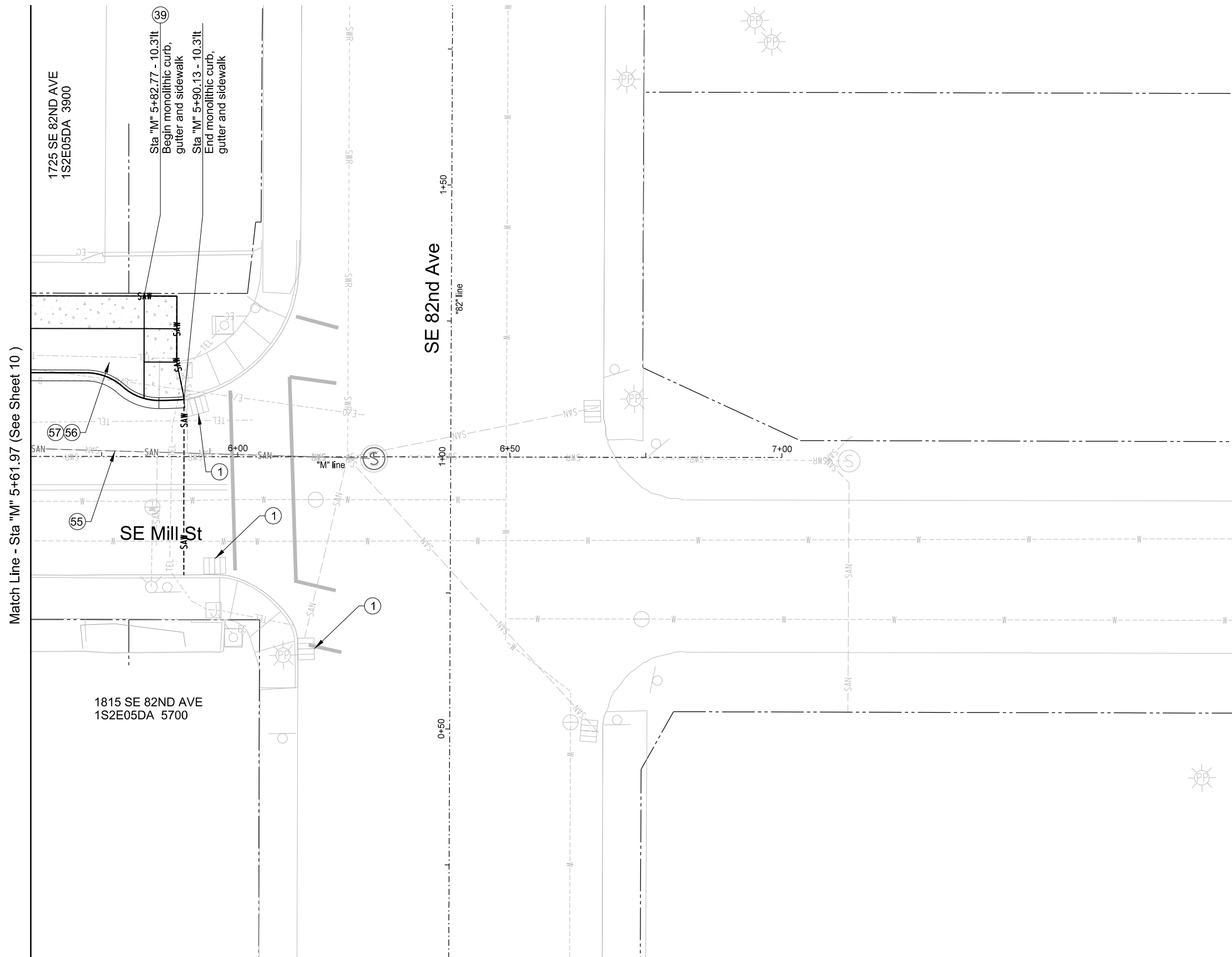
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Scale: 1" = 1' Vert.
1" = 10' Horiz.

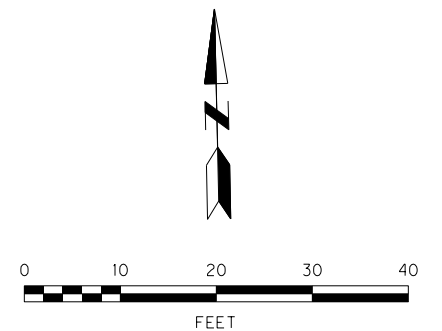


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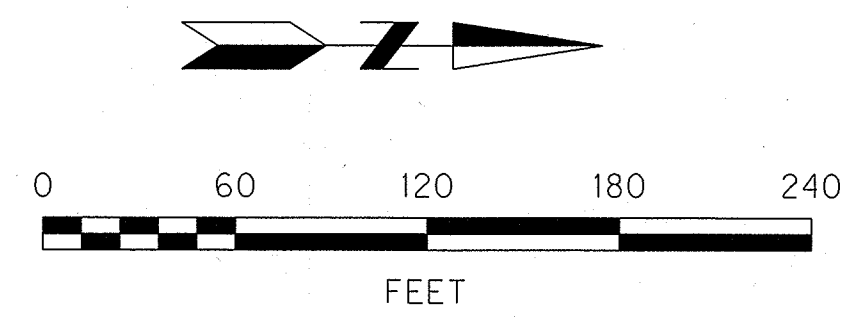
Scale: 1" = 1' Vert.
1" = 10' Horiz.



1 Install inlet protection - 3. See Std Drg No RD1010.
39 Construct monolithic curb, gutter and sidewalk. See Std Drg No P-551.
55 Construct sewer facility. See SA sheets.
56 Install topsoil - 6in thick.
57 Install lawn seeding.



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Plot Date: 6/17/2019 9:00:00 AM Filename: S:_LIDesign\T00728 - SE 80th Ave and Mill St LID\CAD\PLAN SHEETS\SH T D-01A SUMP NOTES AND TABLES\PLOT_SHT_D-01A.dgn

Sump Notes:

- 1

Design flows reflect a factor of safety of 2
- 2

All sumps shall be tested by the contractor as directed and approved by the BES field Inspector.
- 3

Sump testing shall take place after sump construction is complete and before the construction of the sedimentation manhole. Should a sump test fail to verify adequate capacity, an additional sump, constructed in series with the first sump (a maximum of two sumps per system) shall be required. Should a test of two sumps in series fail to verify adequate capacity, an alternative public stormwater destination shall be required, as approved by BES.
- 4

Notify BES field inspector and BES Construction Manager at least 48 hours before beginning sump testing. A BES representative must be present during all sump capacity tests.
- 5

BES shall contact the Portland Water Bureau or applicable water district to arrange for sump test water supply and obtain the necessary permits. Upon receipt of hydrant permit, the Contractor can contact BES Materials Testing Laboratory (MTL) and make arrangements to lease sump testing equipment. Contractor can also lease similar testing equipment from any vendor with BES approval.
- 6

MTL Sump testing equipment is subject to leasing conditions and fees. Note that sump capacity tester is available on a first come – first served basis. The tester and pipe trailers may be rented per day for a maximum of two days per written application. Contact MTL, located at 1405 N River, at (503) 823-2340. Insurance on the MTL leased equipment is required.
- 7

Provide water flow from fire hydrants to sump being tested using an 8-inch nominal diameter pipe. Deliver clean potable water to sumps. Introduction of sediment is not acceptable and may result in failure of sump capacity test and reconstruction of sump.
- 8

The test may be completed using flow from one fire hydrant. However, a second fire hydrant may be necessary to complete the sump test.
- 9

Fill sump with water at an initial rate of 300 gallons per minute (gpm), and record water elevation below sump rim after five minutes. Maintain initial flow rate and continue taking recordings of the water elevation at five minute intervals until the water surface reaches a constant elevation. Then increase flow rate by 300 gpm, and record the water elevation at the new flow rate as described in the initial process. Continue the sump test by increasing the flow rate at increments of 300 gpm until the sump has reached its maximum capacity.
- 10

Upon completion of each sump test, compare tested sump capacity flow rate to the minimum flow rate noted in the Plans. Notify Owner immediately if tested flow rate is less than the minimum flow rate listed.
- 11

Contractor shall sign the sump testing results and submit to the BES field inspector.
- 12

The closest fire hydrant for sump tested is located at the intersections as shown in the Sump Data Table.

Note:

Flow meter must be rented from Portland Water Bureau.

Contact: Aron Anderson
Telephone: 503-823-4256
E-mail: Aron.Anderson@portlandoregon.gov

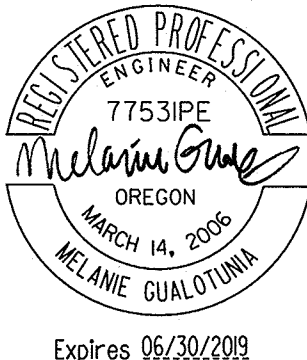
Max flow rates for testing:

SE Lincoln and 80th	#118365 = 310 gpm
SE Harrison and 80th	#118507 = 310 gpm
SE Stephens and 80th	#118464 = 310 gpm
SE Market and 80th	#118511 = 310 gpm
SE Mill and 82nd	#6418550 = 190gpm

Sump Data Table

Sump No.	Location	DEQ ID	UIC Registration ID	Sheet No.	Min. Percolation Rate Required (GPM)	R/W Drainage Area (sf)	Hydrant Location for Sump Testing	Tested Flow Rate (GPM)
1	SE 80th and SE Lincoln St	10102-10043	R00632	D-2	620	15,500	SE Lincoln St and SE 80th E118365 SE Harrison St and SE 80th E118507	
2	SE 80th and SE Harrison St	10102-10042	R00631	D-3	1,490	23,000	SE Harrison St and SE 80th E118507 SE Stephens and SE 80th E118464	
3	SE 80th and SE Stephens St	10102-1209	N/A	D-4	360	10,000	SE Stephens and SE 80th E118464 SE Mill and SE 80th E118513	
4	SE 80th and SE Market St	10102-10040	R00629	D-5	1,490	32,000	SE Market and SE 80th E118511 SE Mill and SE 80th E118513	
5	SE Mill st	10102-10041	R00630	D-6	1,260	26,000	SE Mill and SE 82nd E6418550	

DESIGNED BY	D. Jenkins	DATE APPROVED	June 2019
CAD BY	P. Ferreira	PROGRAM MGR.	J. Dvorak
CHECKED BY	D. Nunamaker	CONSTR. MGR.	L. Moorhead
DESIGN MGR.	M. Gualotunia		



APPROVAL:

W. F. Ryan 6/20/19
CHIEF ENGINEER REG. PROF. ENGR. NO. 16301PE

CITY OF PORTLAND, OREGON

BUREAU OF ENVIRONMENTAL SERVICES

NICK FISH

WILLIAM F. RYAN, P.E.

COMMISSIONER

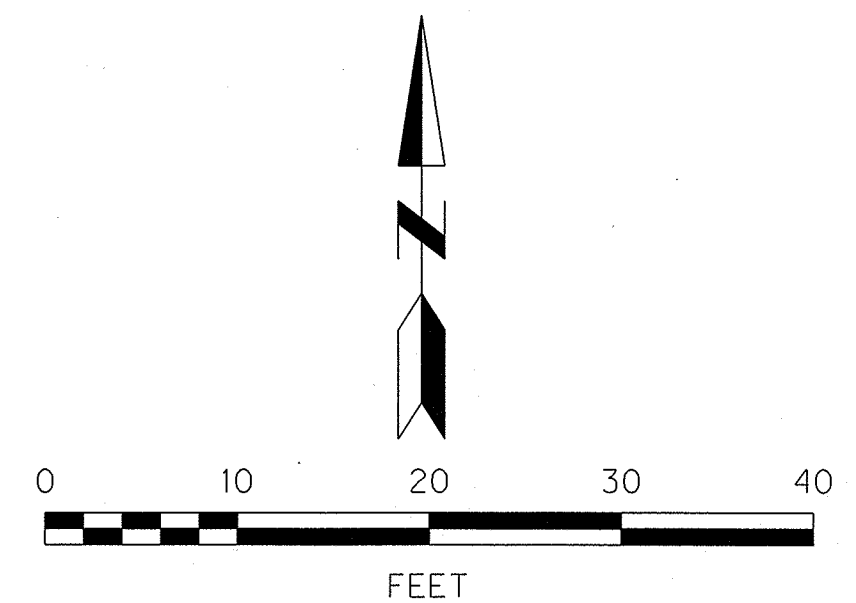
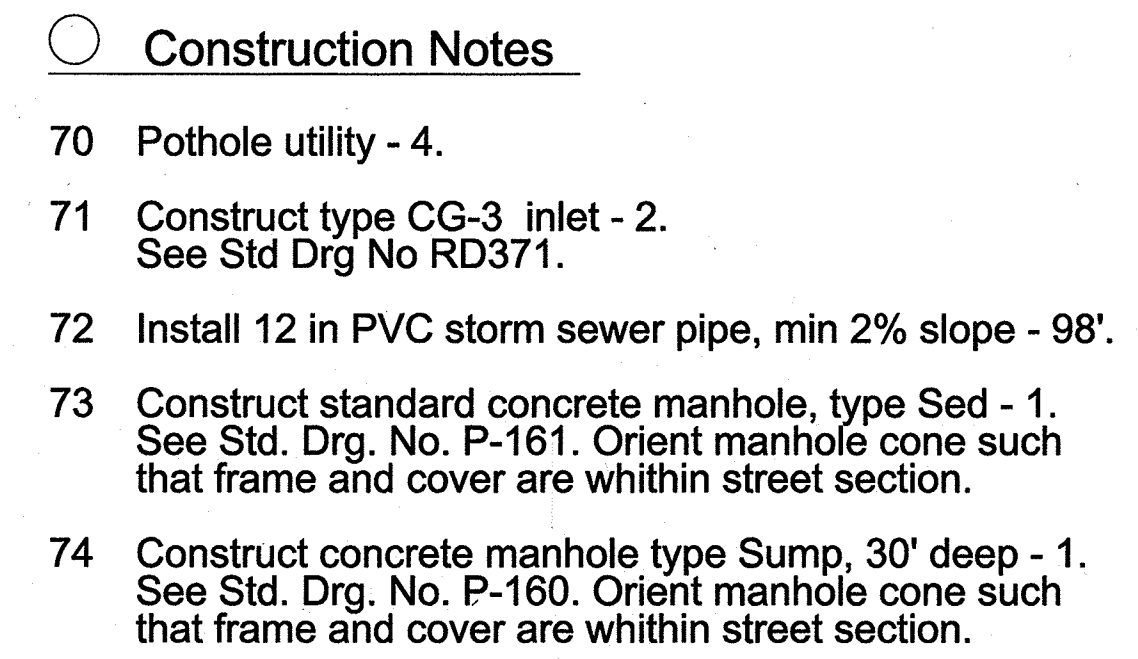
CHIEF ENGINEER



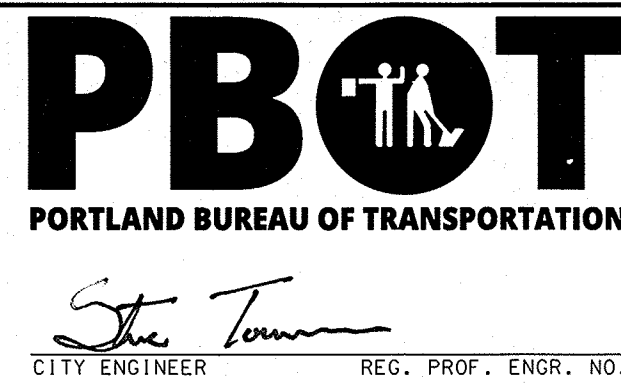
S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.

Sump Notes and Tables

1/4 SECTION
3238
PROJECT NO.
T00728
E11115
SHEET NO.
D-1A



NO.	DATE	DESCRIPTION	APPD.
REVISION			



DESIGNED BY <i>D. Jenkins</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	PROGRAM MGR. <i>J. Dvorak</i>
CHECKED BY <i>D. Nunamaker</i>	CONSTR. MGR. <i>L. Moorhead</i>
DESIGN MGR. <i>M. Gualotunia</i>	



APPROVAL:

Walter F. Ryan 6/20/15

CHIEF ENGINEER REG. PROF. ENGR. NO. 16301P

CITY OF PORTLAND, OREGON

BUREAU OF
ENVIRONMENTAL SERVICES

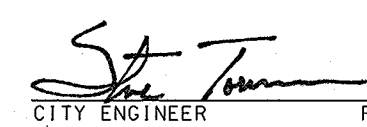
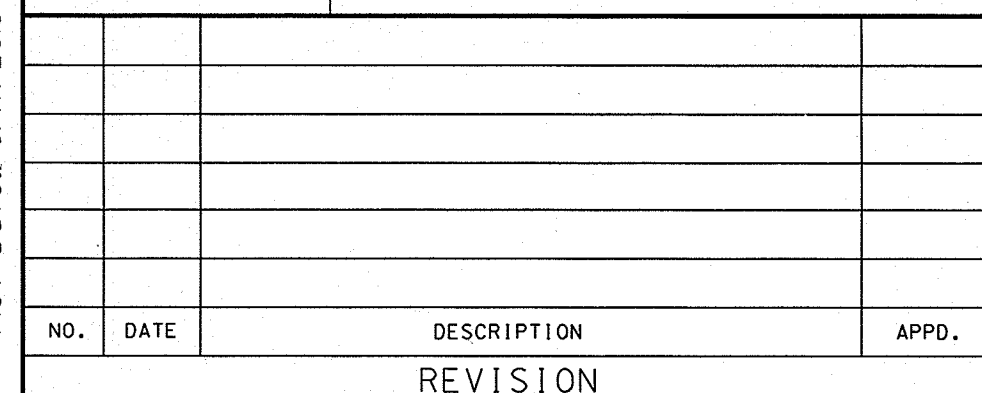
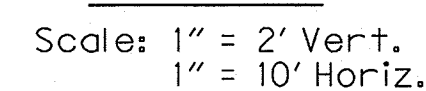
NICK FISH COMMISSIONER

WILLIAM F. RYAN, P.E. CHIEF ENGINEER



**S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.
Stormwater Plan
SE 80th Ave at SE Lincoln St**

74 SECTION
3238
PROJECT NO.
T00728
E11115
SHEET NO.
D-2

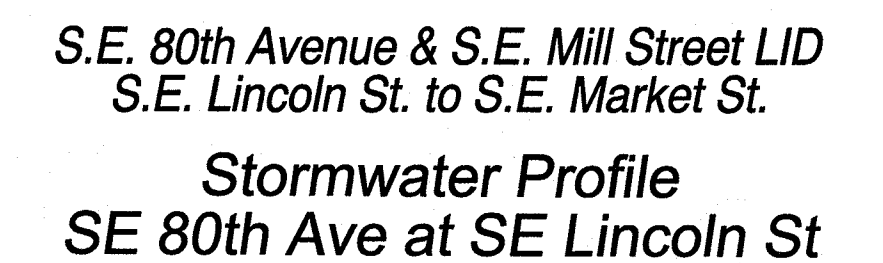


REG. PROF. ENGR. NO. 51538PE DATE

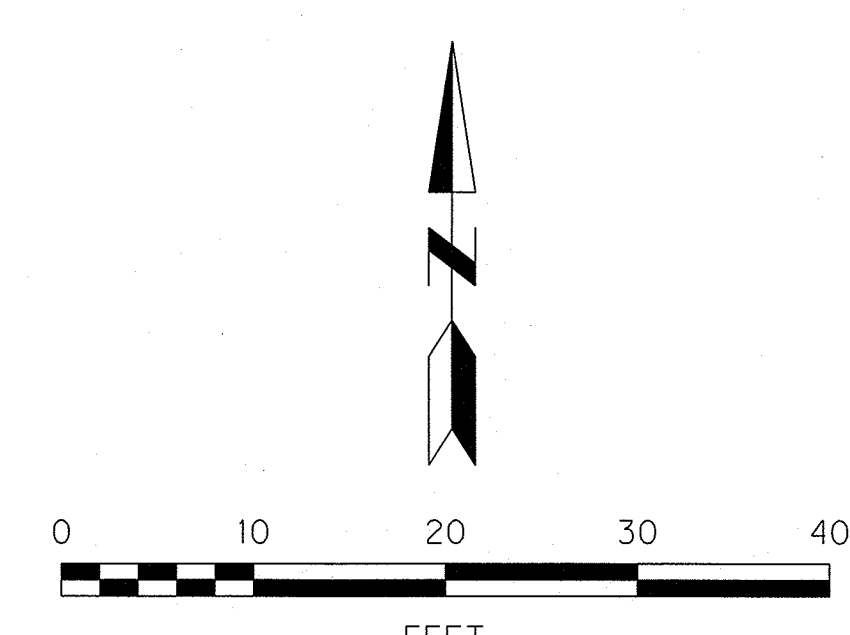
REGISTERED PROFESSIONAL
ENGINEER
7753IPE
Melanie Gualotunia
OREGON
MARCH 14, 2006
MELANIE GUALOTUNIA
Expires 06/30/2019

WILL FOGAN 6/29/19
CHIEF ENGINEER REG. PROF. ENGR. NO. 16301P

COMMISSIONER
CHIEF ENGINEER

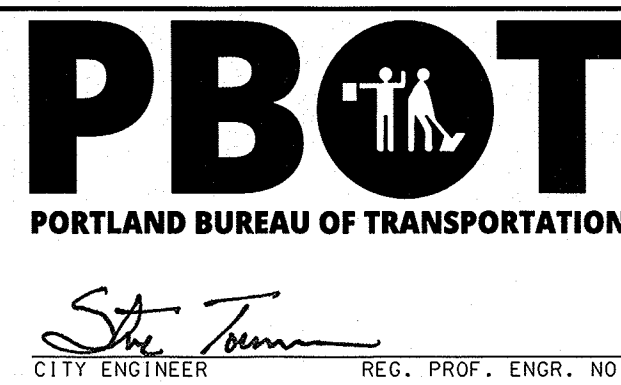


4 SECTION
3238
PROJECT NO.
T00728
E11115
SHEET NO.
D-2A



- 70 Pothole utility - 8.
- 72 Install 12 in. PVC storm sewer pipe, min 2% slope - 167'.
- 73 Construct Std. Concrete Manhole type Sed. - 1.
See Std. Drg. P-161. Orient manhole cone such
that frame and cover are within street section.
- 74 Construct Concrete Manhole type Sump, 30' deep - 1.
See Std. Drg. No. P-160. Orient manhole cone such
that frame and cover are within street section.
- 75 Construct type G2 inlet - 2.
See Std. Drg. No. RD364.
- 76 Construct type CG-2 inlet - 2.
See Std. Drg. No. RD366.

NO.	DATE	DESCRIPTION	APPD.
REVISION			



DESIGNED BY <i>D. Jenkins</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	PROGRAM MGR. <i>J. Dvorak</i>
CHECKED BY <i>D. Nunamaker</i>	CONSTR. MGR. <i>L. Moorhead</i>
DESIGN MGR. <i>M. Gualotunia</i>	



APPROVAL:

With Bryan 6/20/19

CHIEF ENGINEER REG. PROF. ENGR. NO. 16301P

CITY OF PORTLAND, OREGON

**BUREAU OF
ENVIRONMENTAL SERVICES**

NICK FISH

COMMISSIONER

WILLIAM F. RYAN, P.E.

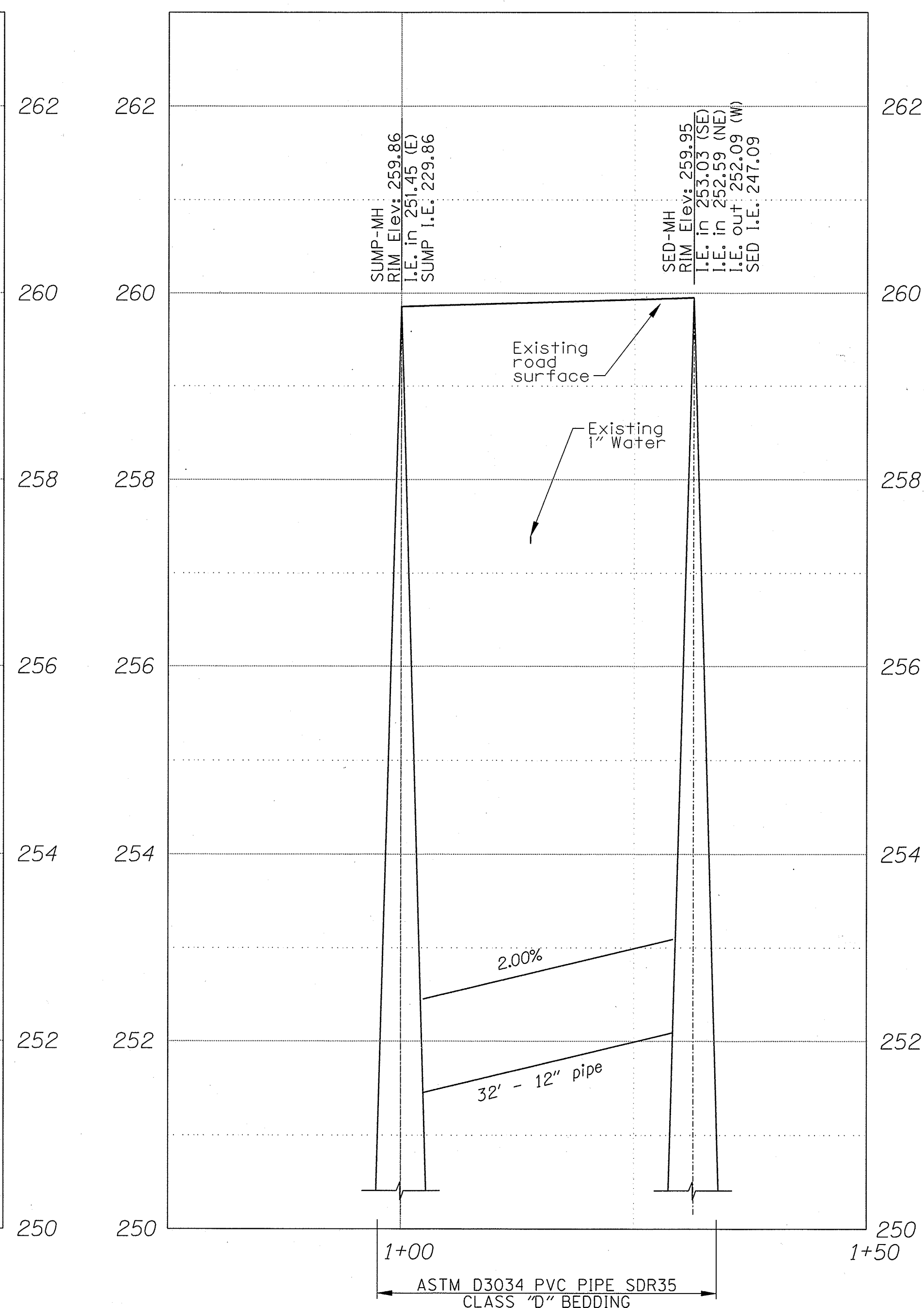
CHIEF ENGINEER



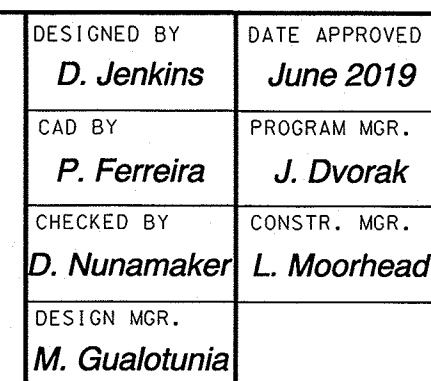
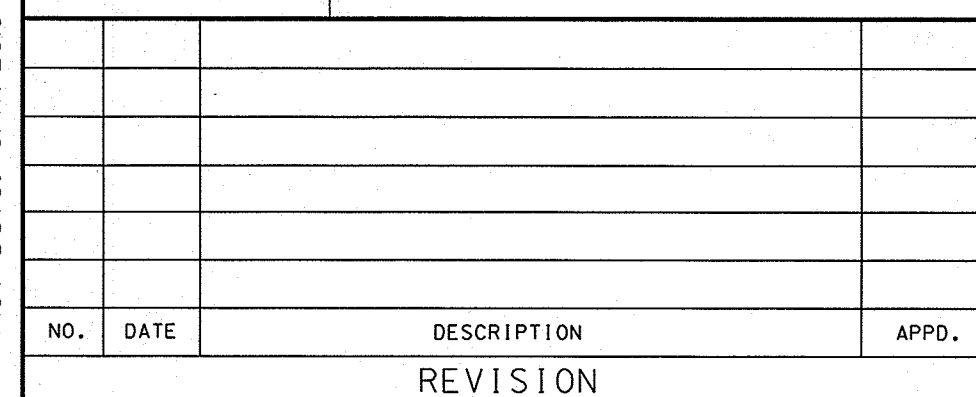
S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.

Stormwater Plan
SE 80th Avenue at SE Harrison St

1/4 SECTION
3238
PROJECT NO. T00728 E11115
SHEET NO. D-3



Scale: 1" = 2' Vert.
1" = 10' Horiz.

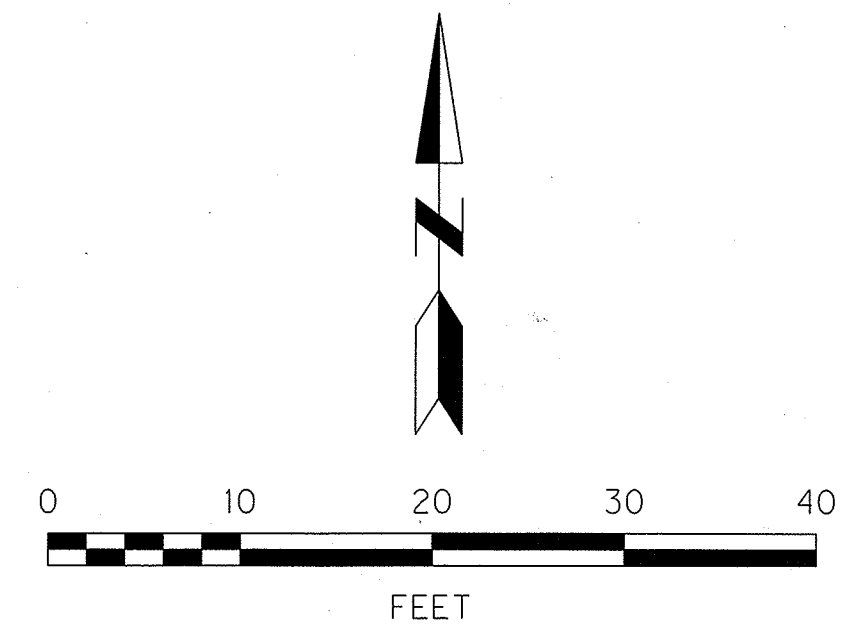
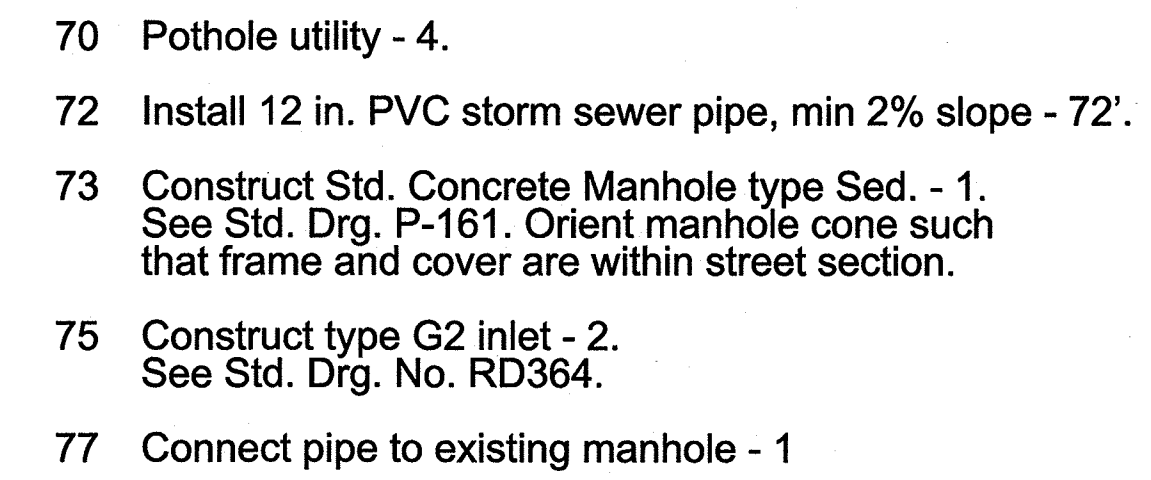


With PEG 6/20/19

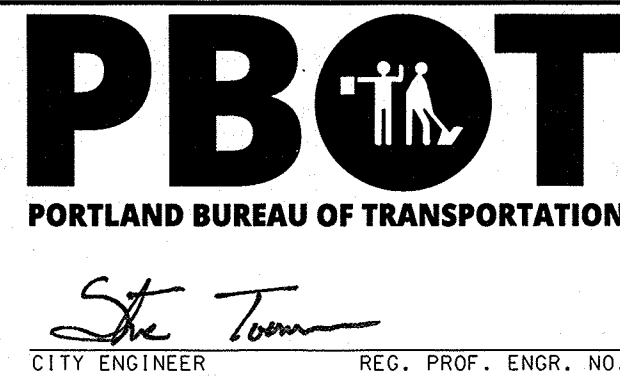
COMMISSIONER
CHIEF ENGINEER



1/4 SECTION
3238
PROJECT NO.
T00728
E11115
SHEET NO.
D-3A



NO.	DATE	DESCRIPTION	APPD.
REVISION			



DESIGNED BY <i>D. Jenkins</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	PROGRAM MGR. <i>J. Dvorak</i>
CHECKED BY <i>D. Nunamaker</i>	CONSTR. MGR. <i>L. Moorhead</i>
DESIGN MGR. <i>M. Gualotunia</i>	



APPROVAL:

Wick Fagan 6/20/19

CHIEF ENGINEER REG. PROF. ENGR. NO. 6301PE

CITY OF PORTLAND, OREGON

BUREAU OF
ENVIRONMENTAL SERVICES

NICK FISH COMMISSIONER

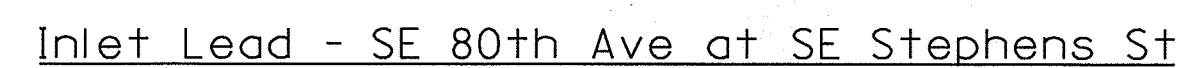
WILLIAM F. RYAN, P.E. CHIEF ENGINEER



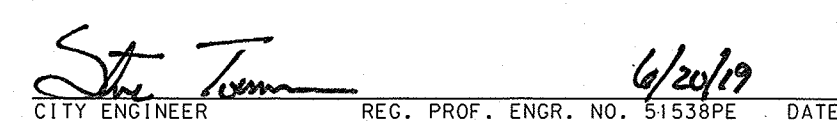
S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.

Stormwater Plan
SE 80th Avenue at SE Stephens St

1/4 SECTION
3238
PROJECT NO.
T00728
E11115
SHEET NO.
D-4

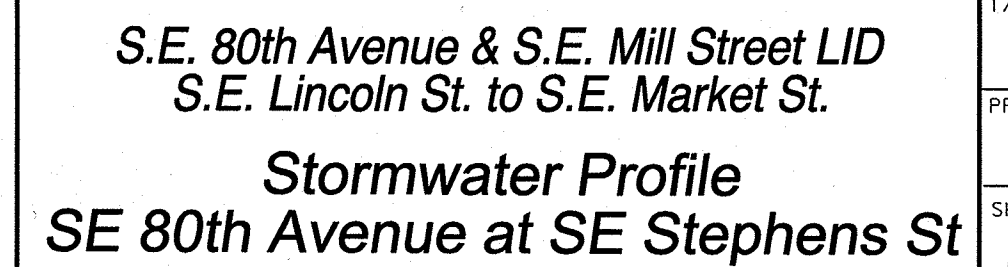


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1" = 10' Horiz.

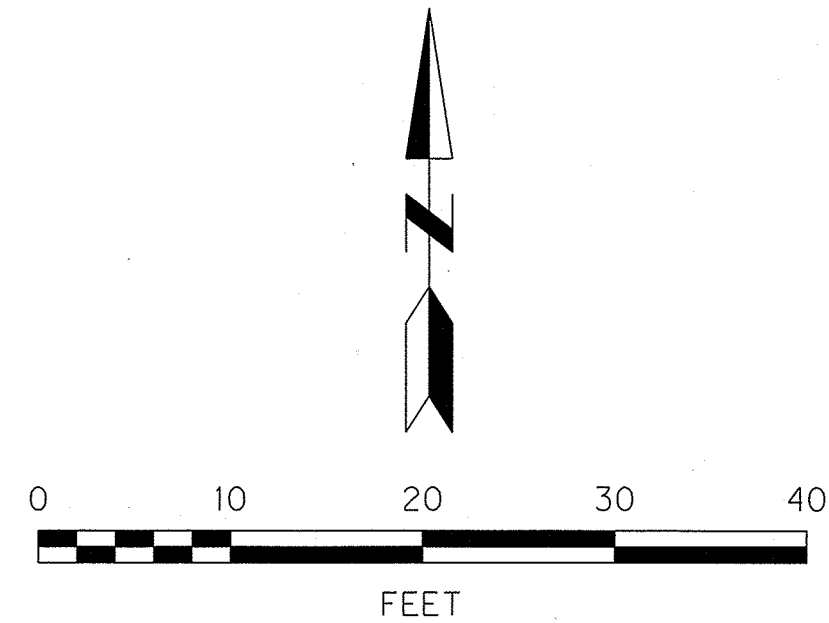
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Wish Eng 6/20/17

COMMISSIONER
CHIEF ENGINEER



1/4 SECTION
3238
PROJECT NO. T00728 E11115
SHEET NO. D-4A

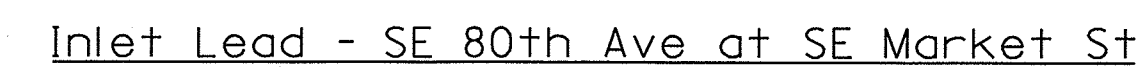


- 70 Pothole utility - 3.
- 72 Install 12 in. PVC storm sewer pipe, min 2% slope - 77'.
- 73 Construct Std. Concrete Manhole type Sed. - 1.
See Std. Drg. P-161. Orient manhole cone such
that frame and cover are within street section.
- 74 Construct Concrete Manhole type Sump, 30' deep - 1.
See Std. Drg. No. P-160. Orient manhole cone such
that frame and cover are within street section.
- 75 Construct type G2 inlet - 2.
See Std. Drg. No. RD364.

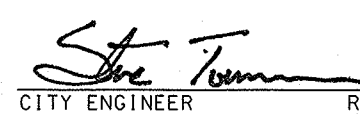
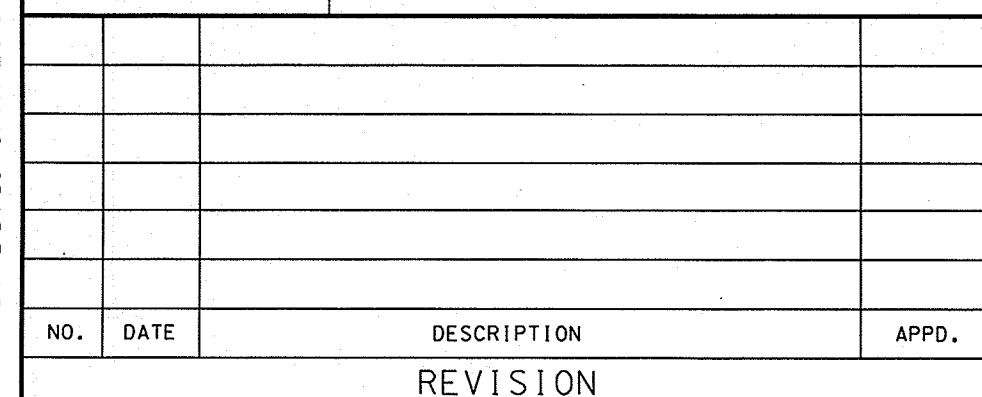
1/4 SECTION
3238
PROJECT NO. T00728 E11115
SHEET NO. D-5



Scale: 1" = 2' Vert.
1" = 10' Horiz.



Scale: 1" = 2' Vert.
1" = 10' Horiz.



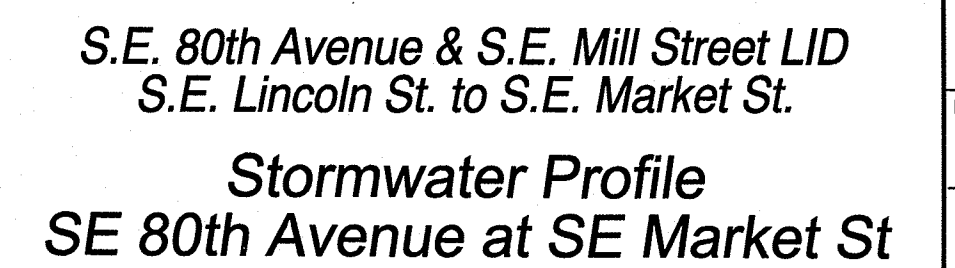
6/20/19

REG. PROF. ENGR. NO. 51538PE

REGISTERED PROFESSIONAL
ENGINEER
77531PE
Melanie Gualotunia
OREGON
MARCH 14, 2006
MELANIE GUALOTUNIA
Expires 06/30/2019

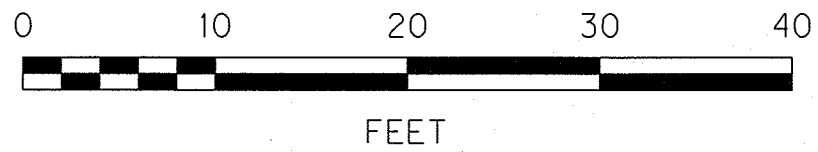
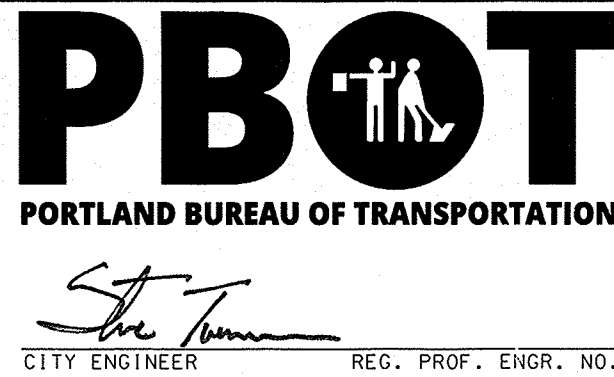
Wah FBZ 6/20/19

COMMISSIONER
CHIEF ENGINEER



4 SECTION
3238
PROJECT NO.
T00728
E11115
SHEET NO.
D-5A

- 70 Pothole utility - 7.
- 71 Construct type CG-3 inlet - 1.
See Std. Drg. No. 371.
- 72 Install 12 in. PVC storm sewer pipe, min 2% slope - 69'.
- 73 Construct Std. Concrete Manhole type Sed. - 1.
See Std. Drg. P-161. Orient manhole cone such
that frame and cover are within furnishing zone.
Do not go into street or curb.
- 74 Construct Concrete Manhole type Sump, 30' deep - 1.
See Std. Drg. No. P-160. Orient manhole cone such
that frame and cover are within furnishing zone.
Do not go into street or curb.
- 76 Construct type C-G2 inlet - 1.
See Std. Drg. No. RD364.
- 79 Install 10 in. PVC storm sewer pipe, min 2% slope - 29'.

[illegible]

DESIGNED BY <i>D. Jenkins</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	PROGRAM MGR. <i>J. Dvorak</i>
CHECKED BY <i>D. Nunamaker</i>	CONSTR. MGR. <i>L. Moorhead</i>
DESIGN MGR. <i>M. Gualotunia</i>	



WILH FBu 6/20/19

NICK FISH COMMISSIONER

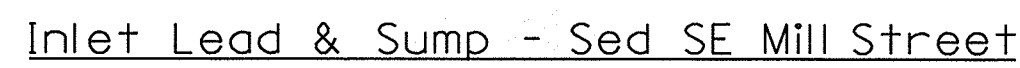
WILLIAM F. RYAN, P.E. CHIEF ENGINEER



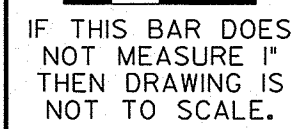
Stormwater Plan

80th Avenue at SE Mill St

1/4 SECTION
3238
PROJECT NO. T00728 E11115
SHEET NO. D6



Scale: 1" = 2' Vert.
1" = 10' Horiz.



PBOT
PORTLAND BUREAU OF TRANSPORTATION

Steve Tomlin
CITY ENGINEER

REG. PROF. ENGR. NO. 10000

St. Town 6/20/19
CITY ENGINEER REG. PROF. ENGR. NO. 51538PE DATE

DATE APPROVED
June 2019

PROGRAM MGR.
J. Dyvorak

CONSTR. MGR.
I Moorhead

DESIGN MGR.
M. Gualotunia



CHIEF ENGINEER

Wilf Ba 6/29/19

REG. PROF. ENGR. NO. 16301PE

WILLIAM F. RYAN, P.E.

CHIEF ENGINEER



S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.

Stormwater Profile
SE Mill Street 115' East of SE 80th

SHEET NO.

D-6A

\\BOPDXP01\PROJECTS\153052_BES_E11142_MILL\07_CAD-GIS\FINAL SUBMITTAL\FROM EMERIO\ONEDRIVE_1_5-15-2019\144-008_SA1.DWG 5/15/2019 12:16

LEGEND

EXISTING:			
	CATCH BASIN/INLET		SANITARY SEWER
	FIRE HYDRANT		STORM SEWER
	WATER VALVE		COMBINED SEWER
	GAS VALVE		SANITARY MANHOLE
	WATER METER		SUMP MANHOLE
	WATER VAULT		DITCH
	TELEPHONE PEDESTAL		END OF SANITARY SEWER
	POWER VAULT		TEMPORARY PLUG
	POLE ANCHOR		LATERAL (HOUSE BRANCHES)
	CLEANOUT		SOIL BORING
	WATER MANHOLE		
	POWER POLE		
	STREET LIGHT		SIDEWALK
	FENCE		BUILDING ADDRESS
	EDGE OF PAVEMENT		56" WATER PIPE
	CURB		
	EDGE OF DRIVEWAY	PROPOSED:	
	EXISTING TREE		COMBINED / SANITARY SEWER
	WATER LINE		ABANDON SEWER
	GAS LINE		MANHOLE
	ELECTRIC		CLEANOUT
	TELEPHONE		PERMANENT PLUG
	FIBER OPTIC		SERVICE LINE (HOUSE BRANCHES)
	OVERHEAD LINE		PROJECT SITE BOUNDARY
	RIGHT OF WAY		
	PROPERTY LINE		PAVEMENT RESTORATION
	ROAD STRIPING		SEDIMENTATION MANHOLE
	STRUCTURE		SUMP MANHOLE
	TRAFFIC ISLAND		CATCH BASIN
	UTILITY LINE FOR LARGER THAN 36"		PROPOSED TREE
	SPEED BUMPS		GUTTER LIP
	BIKE LANE		GUTTER
	DITCH OUTLET		CURB
	DITCH INLET		SIDEWALK
	ELECTRICAL VAULT		
	SIGN/BUS STOP		

GENERAL NOTES:

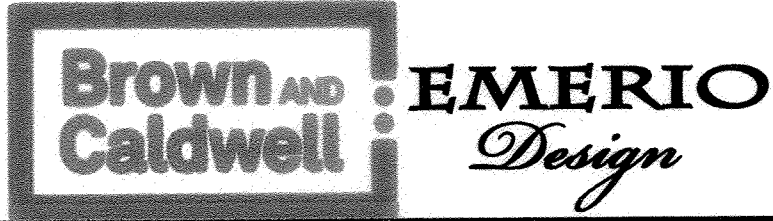
1. CONSTRUCT PER CURRENT CITY OF PORTLAND STANDARD DETAILS AND DRAWINGS, AND DETAIL SHEET SA4.
2. EXISTING GRADES SHOWN ON PROFILES ARE TAKEN ALONG THE CENTERLINE OF THE PIPE. ELEVATIONS ARE PROVIDED BY THE CITY OF PORTLAND. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AND SLOPES.
3. PROTECT ALL TREES UNLESS OTHERWISE NOTED. SEE TREE PROTECTION NOTES AND DETAIL ON SHEET SA4.
4. ALL UTILITIES AND SERVICE LATERALS SHOWN ON PLANS ARE AT APPROXIMATE LOCATIONS ONLY AND MUST BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO CONSTRUCTION.
5. INSTALL INLET INSERT/INLET PROTECTION IN ALL INLETS LOCATED WITHIN A 100' RADIUS FROM THE EDGE OF ALL EXCAVATIONS. SEE SHEET SA5.
6. ALL ACTIVE LATERALS ARE TO BE RECONNECTED TO THE MAINLINE, PER CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS.
7. NOTIFY CHARLES RADOSTA (503-823-5573) IMMEDIATELY UPON DISTURBING A TRAFFIC SIGNAL LOOP DETECTOR. REPLACE LOOP DETECTOR PER SPECIFICATIONS. COORDINATE WITH NORBERTO ADRE FOR LOOP LAYOUT PRIOR TO REPLACEMENT.
8. NOT ALL WATER AND GAS SERVICE LATERALS ARE SHOWN ON PLANS.
9. ALL MANHOLES SHALL BE PRECAST CONCRETE MANHOLE PER STANDARD DRAWINGS P-150, P-151, AND P-152 WITH MANHOLE STEPS PER STANDARD DETAIL P-168 UNLESS OTHERWISE NOTED.
10. RECONSTRUCT SEWER LATERALS SHALL BE AT 2% SLOPE (MINIMUM) UNLESS OTHERWISE APPROVED BY THE ENGINEER.
11. CONTRACTOR TO PROVIDE SUPPORTS TO UTILITIES AS NEEDED TO PROTECT IN PLACE.

CONSTRUCTION NOTES:

- 1 RECONSTRUCT LATERAL TO EXTENT SHOWN AND CONNECT TO THE EXISTING LATERAL.
- 2 RECONNECT LATERAL TO NEW CONSTRUCTED SEWER, BUT DO NOT REMOVE PLUG.
- 3 RECONSTRUCT LATERAL TO EXTENT SHOWN USING A TRENCHLESS CONSTRUCTION METHOD AND CONNECT TO THE EXISTING LATERAL AT PROPERTY LINE. CONTRACTOR TO SUBMIT.
- 4 CONSTRUCT 72" MANHOLE.
- 5 ABANDON EXISTING PIPE.
- 6 ABANDON EXISTING STRUCTURE.
- 7 EXPLORATORY EXCAVATION REQUIRED. CONTRACTOR TO VERIFY INVERT ELEVATION AT CONNECTION POINT, PRIOR TO CONSTRUCTION.
- 8 INSTALL NEW LATERAL CLEANOUT PER DETAIL P-257.
- 9 EXISTING 8" CSP SANITARY PIPE TO BE PLUGGED WITH CONCRETE FROM THE INSIDE OF THE EXISTING 42" CSP PIPE. PLUG SHALL BE FLUSH ON THE INSIDE OF THE 42" PIPE.
- 10 CONSTRUCT 48" MANHOLE.
- 11 CONSTRUCT NEW LATERAL TO PROPERTY LINE WITH TEMPORARY PLUG USING A TRENCHLESS CONSTRUCTION METHOD. CONTRACTOR TO SUBMIT.
- 12 MAINTAIN AND PROTECT THE EXISTING GAS LINE IN PLACE. CONTACT JODI WRIGHT (503-367-4984) WITH NW NATURAL FOR UTILITY SUPPORT AND PROTECTION 1 WEEK PRIOR TO CONSTRUCTION.
- 13 VIDEO INSPECT THE LATERAL.
- 14 RECONNECT LATERAL TO NEW CONSTRUCTED SEWER.

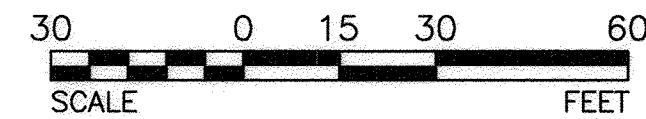
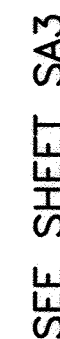
ABBREVIATIONS:

AVE	AVENUE	N	NORTH
BC	BLIND CONNECTION	NE	NORTHEAST
BES	BUREAU OF ENVIRONMENTAL SERVICES	NTS	NOT TO SCALE
CB	CATCH BASIN	NW	NORTHWEST
CLSM	CONTROLLED LOW STRENGTH MATERIAL	OH	OVERHEAD
CO	CLEANOUT	PROP	PROPOSED
COMB	COMBINATION	PVC	POLYVINYL CHLORIDE
CSP	CONCRETE SEWER PIPE	PWB	PORTLAND WATER BUREAU
CTL	CENTURY LINK	RCP	REINFORCED CONCRETE PIPE
DIA	DIAMETER	RW/ROW	RIGHT OF WAY
E	EAST	S	SLOPE, SOUTH
EL	ELEVATION	SE	SOUTHEAST
EUPP	ENGINEER SIGNED/STAMPED UTILITY PLAN	SS	SANITARY SEWER
EXIST	EXISTING	ST	STREET
FO	FIBER OPTIC	STA	STATION
G	GAS	STM	STORM SEWER
HORIZ	HORIZONTAL	SW	SOUTHWEST
IE	INVERT ELEVATION	TEL	TELEPHONE UTILITY
MAX	MAXIMUM	TYP	TYPICAL
MH	MANHOLE	VAR	VARIES
MIN	MINIMUM	VERT	VERTICAL
		W	WEST, WATER



XREF(S) USED: 144-008-SITE ALL PBOT COMBINED FILES 144-008E11142_MAP		DESIGNED BY: AR	DATE APPD: AS	APPROVAL:		CITY OF PORTLAND ENVIRONMENTAL SERVICES						1/4 SECTION 3238
ROTATION ANGLE: _____		DRAWN BY: JSP	PROGRAM MGR: JND	WILLIAM F. RYAN 5/23/19		NICK FISH WILLIAM F. RYAN, P.E. COMMISSIONER CHIEF ENGINEER						JOB NO. E11142
CONSTRUCTED BY: _____		CHECKED BY: YZ	CONST. MGR: LM	BES CHIEF ENGINEER REG. PROF. ENGR. NO. 16301PE		PBOT PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E. COMMISSIONER CITY ENGINEER						T00728
PROJECT COMPLETED: _____		MAP CORRECTED BY: _____	CHECKED BY: _____									SHEET NO. SA1
DRAWING NAME: 144-008_SA1.dwg												1 OF 5
REVISION												

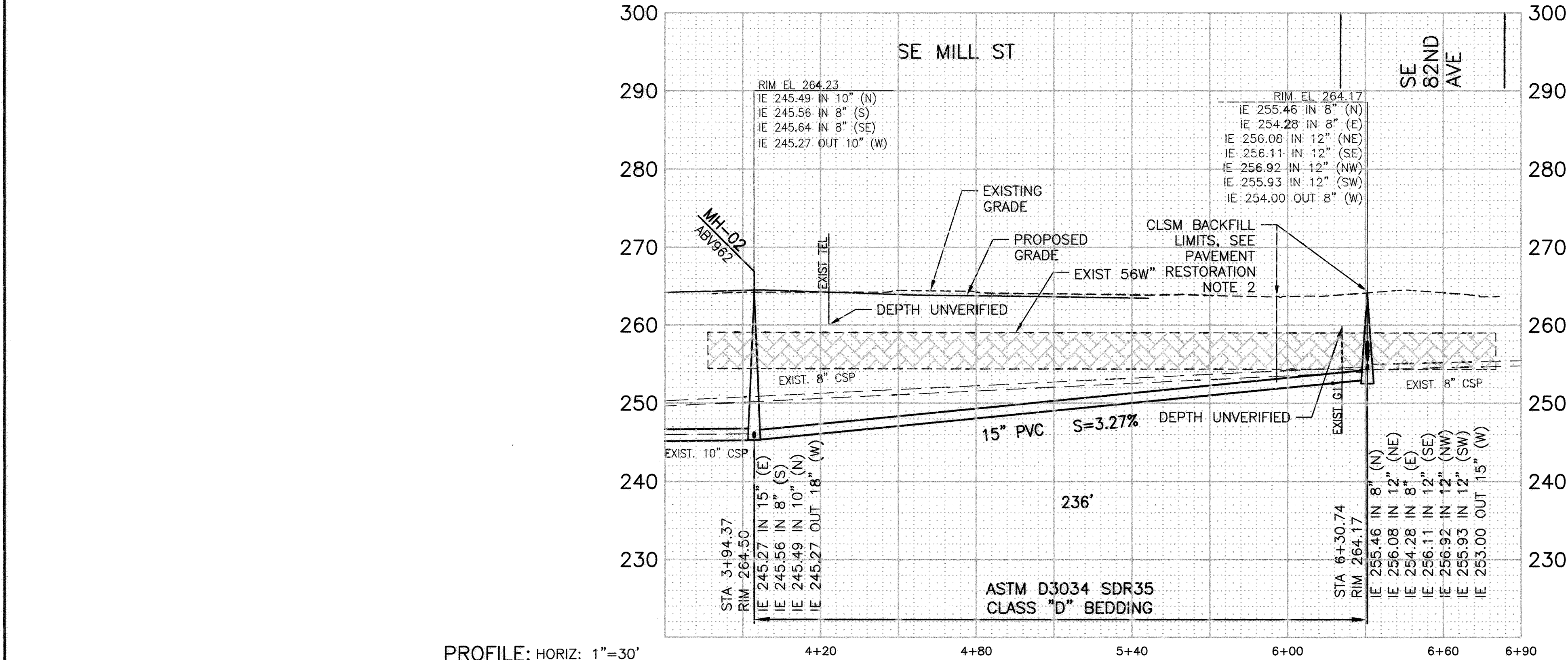
ABBREVIATIONS, LEGEND, AND GENERAL NOTES



- Brown AND Caldwell** **EMERIO**
Design

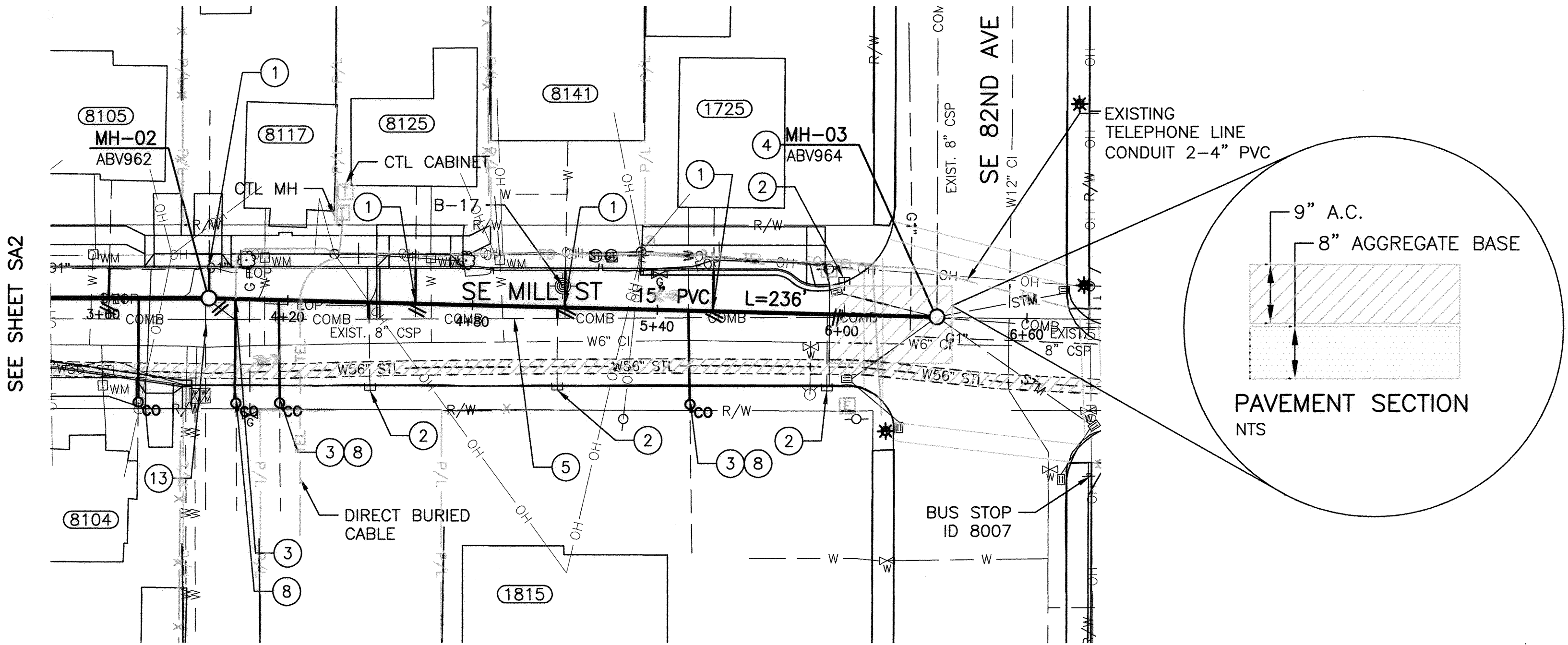
1/4 SECTION
3238
OB NO.
E11142
T00728
SHEET NO.
SA2
2 OF 5

\\BOPDXP001\PROJECTS\153052-BES-E11142-MILL\07_CAD-GIS\FINAL SUBMITTAL\FROM EMERIO\ONEDRIVE_1_5-15-2019\144-008_SA3.DWG 5/15/2019 1:57



PROFILE: HORIZ: 1"=30'
VERT: 1"=10'

SEWER CENTERLINE STATIONING



SHEET NOTES:

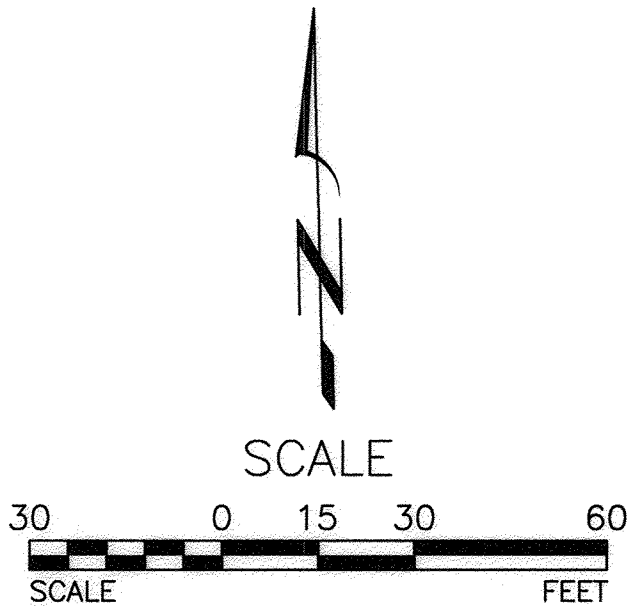
- ENGINEERED SHORING REQUIRED FOR ALL WORK DEEPER THAN 20'.
- A SITE SPECIFIC EUPP IS REQUIRED FOR SUPPORTING AND MAINTAINING IN SERVICE 56 INCH WATER MAIN DURING EXCAVATION AND CONSTRUCTION.
- FIELD VERIFY AND RELAY THE EXISTING INLET LEADS CONNECTING TO MH ABV964 AS DIRECTED BY OWNER'S REPRESENTATIVE.

CONSTRUCTION NOTES:

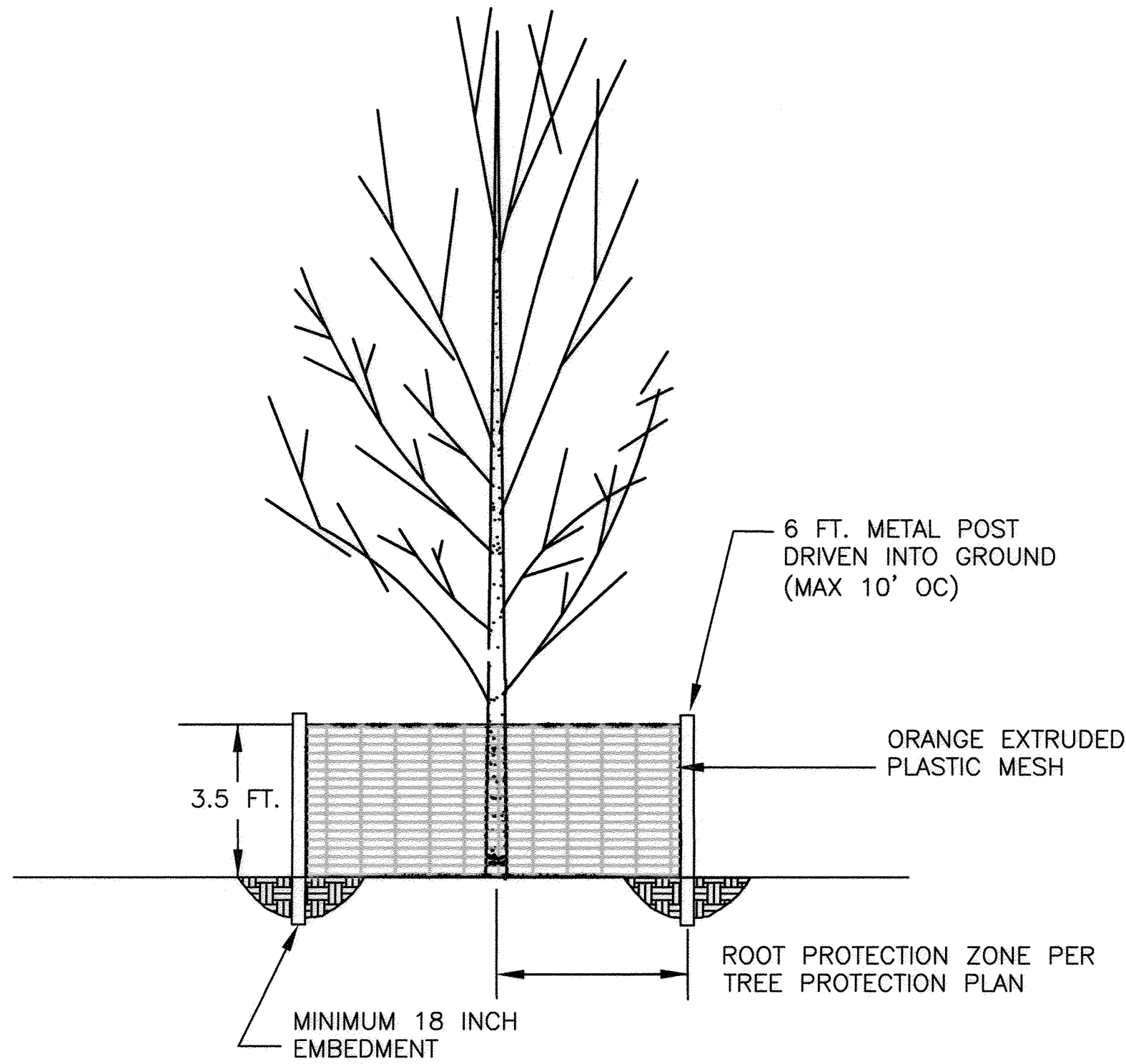
- RECONSTRUCT LATERAL TO EXTENT SHOWN AND CONNECT TO THE EXISTING LATERAL.
- RECONNECT LATERAL TO NEW CONSTRUCTED SEWER, BUT DO NOT REMOVE PLUG.
- RECONSTRUCT LATERAL TO EXTENT SHOWN USING A TRENCHLESS CONSTRUCTION METHOD AND CONNECT TO THE EXISTING LATERAL AT PROPERTY LINE. CONTRACTOR TO SUBMIT.
- CONSTRUCT 72" MANHOLE.
- ABANDON EXISTING PIPE.
- INSTALL NEW LATERAL CLEANOUT PER DETAIL P-257.
- VIDEO INSPECT THE LATERAL.

PAVEMENT RESTORATION NOTES:

- PAVEMENT RESTORATION ON SE 82ND AVE PER PBOT STANDARDS. EXPECTED RESTORATION TO BE APPROXIMATELY 25' X 40'.
- PIPE TRENCH TO BE BACKFILLED WITH CLSM BETWEEN THE PIPE BEDDING AND THE AGGREGATE BASE, APPROXIMATELY FROM STA 5+95.80 TO MH ABV964 FOR PAVEMENT RESTORATION ON SE 82ND AVE.
- A.C. TO BE L3, 1/2" PG 70-22.



XREF(S) USED: 144-008-SITE ALL, PBOT COMBINED FILES 144-008E1142_MAP ROTATION ANGLE: 1.33°				DESIGNED BY: AR DRAWN BY: JSP CHECKED BY: YZ DESIGN MGR: JH		DATE APPD.: PROGRAM MGR: JSP CONST. MGR: JH DESIGN MGR: JH		APPROVAL: WILLIAM F. RYAN, P.E. 5/23/19 NICK FISH, P.E. CHLOE EUDALY, P.E.		CITY OF PORTLAND ENVIRONMENTAL SERVICES NICK FISH, P.E. CHLOE EUDALY, P.E.		REGISTERED PROFESSIONAL ENGINEER RONALD BARD EXPIRES: 12/31/2019		CITY OF PORTLAND 1851		PLAN AND PROFILE SE MILL ST WEST OF SE 82ND AVE		V4 SECTION 3238 JOB NO. E11142 T00728 SHEET NO. SA3 3 OF 5	
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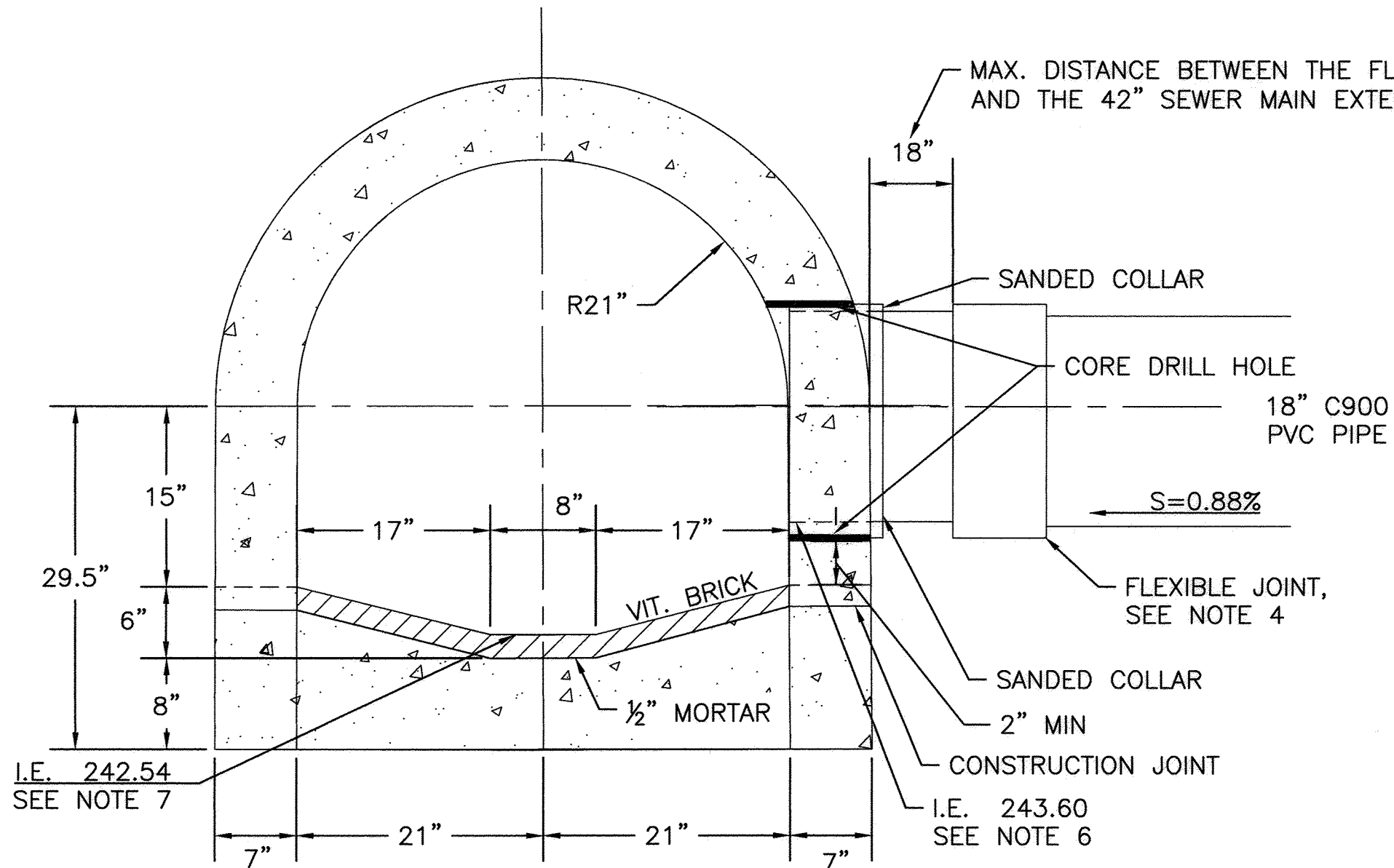
TREE PROTECTION FENCING DETAIL

TREE PROTECTION NOTES

1. INSTALL TREE PROTECTION FENCING (TPF) PRIOR TO ANY GROUND DISTURBING ACTIVITY. INSPECTION AND APPROVAL OF FENCING BY THE URBAN FORESTRY TREE INSPECTOR IS REQUIRED PRIOR TO COMMENCEMENT OF WORK, INCLUDING EQUIPMENT AND MATERIALS STAGING AND MOBILIZATION.
2. CALL 503-823-TREE (8733) TO SCHEDULE THE TREE PROTECTION INSPECTION ONCE THE TPF IS INSTALLED.
3. NO ENTRY IS ALLOWED INTO TREE PROTECTION AREAS FOR THE DURATION OF THE PROJECT UNLESS PERMITTED BY THE URBAN FORESTRY TREE INSPECTOR.
4. TREE PROTECTION FENCING SHALL NOT BE MOVED, ALTERED OR REMOVED THROUGHOUT THE DURATION OF THE PROJECT.
5. WHERE TREE ROOTS ARE ENCOUNTERED OR ANTICIPATED, EXCAVATION SHALL BE COMPLETED WITH HAND TOOLS CAREFULLY WITHOUT DAMAGE (I.E. VAC TRUCK, AIR SPADE, ETC.).
6. TREE ROOTS 2-INCHES AND LARGER IN DIAMETER MAY NOT BE CUT OR DAMAGED WITHOUT A ROOT PRUNING INSPECTION AND PERMIT ISSUED BY THE URBAN FORESTRY TREE INSPECTOR. CALL THE ASSIGNED TREE INSPECTOR OR 503-823-TREE (8733) FOR ROOT INSPECTION PERMITTING SPECIFIC TO THIS PROJECT.

A. INSPECTION AND ISSUANCE OF A PERMIT MAY TAKE UP TO 48 HOURS.

B. IF APPROVED, ROOTS MUST BE PROPERLY PRUNED USING APPROVED ARBORICULTURAL TECHNIQUES.
7. FIELD ADJUSTMENTS OR ALTERNATIVE METHODS MAY BE NEEDED IF LARGE ROOTS ARE ENCOUNTERED. CONTACT THE ASSIGNED TREE INSPECTOR TO DISCUSS.
8. TREES WITHIN THE LIMITS OF DISTURBANCE DESIGNATED TO BE PROTECTED WILL NOT BE REMOVED. CONTRACTOR IS DIRECTED TO COMPLETE CUT AND FILL OPERATIONS WITH CARE NEXT TO THESE TREES.
9. MAINTAIN FENCING THROUGHOUT THE ENTIRE PROJECT. NO ACCESS IS PERMITTED WITHIN FENCED AREAS THROUGH THE DURATION OF THE PROJECT UNLESS OTHERWISE STATED IN THE TREE PROTECTION PLAN.



18" PVC CONNECTION TO EXISTING 42" SEWER PIPE DETAIL
NOT TO SCALE

NOTES:

1. CONFIRM EXISTING SEWER IS IN COMPETENT CONDITION PRIOR TO MAKING CONNECTION.
2. CORE DRILL HOLE FOR CONNECTION.
3. FILL ANNULAR SPACE WITH NON-SHRINK GROUT.
4. FLEXIBLE JOINT TO BE BELL SPIGOT.
5. PROTECT VITRIFIED BRICK LAYER ON THE INVERT.
6. CONTRACTOR SHALL VERIFY THE INVERT ELEVATION FOR THE 18" PVC TIE-IN IN THE FIELD. THE INVERT ELEVATION SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
7. INVERT ELEVATION FOR THE 42" SEWER MAIN WHERE THE 18" PVC TIES IN IS CALCULATED BASED ON THE INVERT ELEVATION OF THE 42" SEWER MAIN AT THE DOWNSTREAM MH ABV959 AND 0.25% SLOPE ASSUMED FROM AS-BUILT INFORMATION. INVERT ELEVATION TO BE FIELD VERIFIED BY CONTRACTOR.

\\BOPDXF001\PROJECTS\153052_BES_E11142_MILL\07_CAD-GIS\FINAL SUBMITTAL\FROM EMERIO\ONEDRIVE_1_5-15-2019\144-008_SA4.DWG 5/15/2019 12:25
BY: JAH/MS/ML/LEAVE

NO.	DATE	DESCRIPTION	APPD.
		REVISION	

XREF(S) USED:	144-008-SITE ALL, PBOT COMBINED FILES
ROTATION ANGLE:	144-008E11142_MAP
CONSTRUCTED BY	
PROJECT COMPLETED	
MAP CORRECTED BY	CHECKED BY
FINAL MAP DATA	
DRAWING NAME:	144-008_SA4.dwg

DESIGNED BY	AR	DATE APPD.	
DRAWN BY	JSP	PROGRAM MGR	JND
CHECKED BY	YZ	COORD. MGR	JMH
DESIGN MGR.	JMH		

APPROVAL:	
BES CHIEF ENGINEER	REC. PROF. ENGR. NO. 16301PE

CITY OF PORTLAND

ENVIRONMENTAL SERVICES

NICK FISH
WILLIAM F. RYAN, P.E.

COMMISSIONER
CHIEF ENGINEER



PBOT

PORTLAND BUREAU OF TRANSPORTATION

CHLOE EUDALY
STEVE TOWNSEN, P.E.

COMMISSIONER
CITY ENGINEER

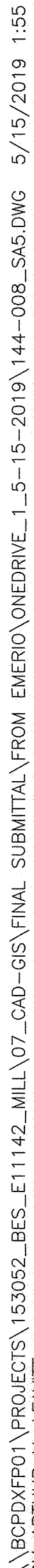
REGISTERED PROFESSIONAL ENGINEER

RONALD BARD

EXPIRES: 12/31/2019



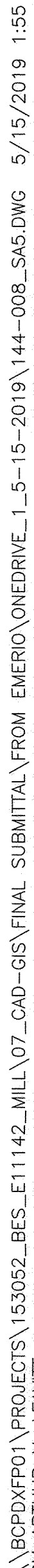
1/4 SECTION
3238
JOB NO. E11142
T00728
SHEET NO. SA4
4 OF 5



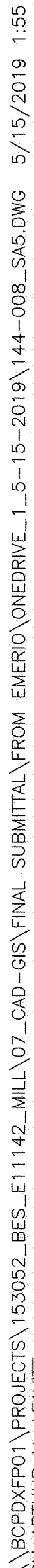
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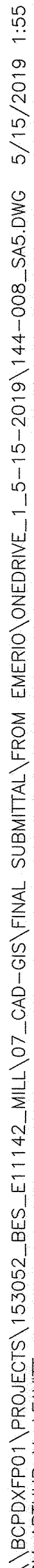
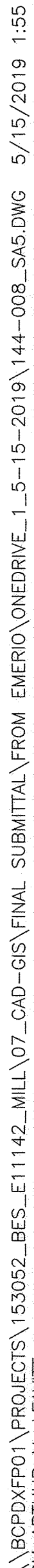


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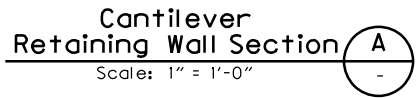


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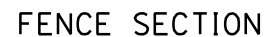


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- WARNING**
- 0 $\frac{1}{2}$ 1
- IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

			DESIGNED BY F. Mangubat	DATE APPROVED June 2019		APPROVALS:			S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Retaining Wall Details and Profile	174 SECTION
			CAD BY P. Ferreira	DIV. ENGINEER S. Townsen		John Cameron Glasgow REG. PROF. ENGR. NO. 80798PE				PROJECT NO. T00728 E11115
			CHECKED BY C. Glasgow			Steve Townsen REG. PROF. ENGR. NO. 51538PE				SHEET NO.
NO.	DATE	DESCRIPTION	APPD.							R-1
REVISION										



Scale: 1" = 1'-0"



FENCE MOUNT RETAINING WALL

Scale: 2" = 1'-0"



Install all fence posts plumb to grade in the longitudinal direction and plumb in transverse direction.

Stretch chain link fabric and fasten to vertical posts at 1'-3" max. centers and 2'-0" max. centers to horizontal brace rails.

Provide steel pipe for the fence posts conforming to ASTM Specification A53 Grade B. Provide all other material for chain link fence (fabric, pipes, and hardware) conforming to AASHTO Specification M181 unless noted otherwise on the contract plans.

Provide all steel plates and shapes conforming to AASHTO Specification M183 (ASTM Specification A36). Provide all bolts conforming to AASHTO Specification M164 (ASTM Specification A325).

Unless noted otherwise, provide and install $\frac{3}{4}$ " diameter concrete anchors AASTHO M314, Gr. 36 (ASTM A307) resin bonded according to City of Portland Specification 00535. Provide anchors embedment such that the required strength is achieved, but not less than 6".

Hot-dip galvanize all steel material after fabrication.

Omit brace rails and allow the chain link fabric to be bulged 1½" out of plane to allow for expansion between posts on either side of an expansion joint. See contract plans for location of fence posts with respect to expansion joints.

Chain link fabric to be within $\frac{1}{4}$ " of concrete surface where applicable (knuckle selvege at top and bottom of fence).

Provide one stretcher bar at the beginning and end of each run. No more than two fabric splices per run spaced at 50 ft.

WARNING

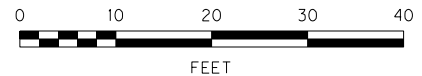
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

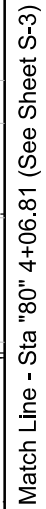
		DESIGNED BY F. Mangubat	DATE APPROVED June 2019		APPROVALS:			S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Retaining Wall Details	1/4 SECTION 3238 PROJECT NO. T00728 E11115 SHEET NO. R-2
		CAD BY P. Ferreira	DIV. ENGINEER S. Townsen		John Cameron Glasgow SUPERVISING ENGINEER REG. PROF. ENGR. NO. 80798PE				
		CHECKED BY C. Glasgow			Steve Townsen CITY ENGINEER REG. PROF. ENGR. NO. 51538PE				
NO.	DATE	DESCRIPTION	APPD.						
		REVISION							



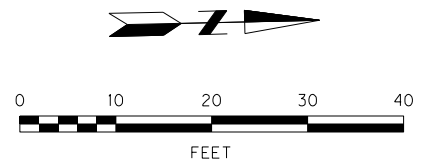
- 1.) Refer to traffic sign bubble legend shown on sheet S-10.
- 2.) Refer to traffic sign & post data table shown on sheet S-11 thru S-12.
- 3.) Refer to signing standard drawings P-400 thru P-420.



			DESIGNED BY J Finkle	DATE APPROVED June 2019		APPROVALS:			S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Striping and Signing Plan SE 80th Ave north of SE Grant St	174 SECTION 3238
			CAD BY P. Ferreira			Lewis Wardrip CITY TRAFFIC ENGINEER REG. PROF. ENGR. NO. 16399PE				PROJECT NO. T00728 E11115
			CHECKED BY L. Wardrip			 CITY ENGINEER REG. PROF. ENGR. NO. 51538PE				SHEET NO. S-1
NO.	DATE	DESCRIPTION	APPD.			Expires 06/20/2019				
REVISION										



- 
- Signing Notes:
- 1.) Refer to traffic sign bubble legend shown on sheet S-10.
 - 2.) Refer to traffic sign & post data table shown on sheet S-11 thru S-12.
 - 3.) Refer to signing standard drawings P-400 thru P-420.

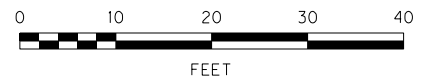


		DESIGNED BY J Finkle		DATE APPROVED June 2019				APPROVALS:						174 SECTION 3238 PROJECT NO. T00728 E11115 SHEET NO. S-2	
		CAD BY P. Ferreira				digital signature 		CITY TRAFFIC ENGINEER 		REG. PROF. ENGR. NO. 16399PE REG. PROF. ENGR. NO. 51538PE		S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Striping and Signing Plan SE 80th Ave at SE Lincoln St			
		CHECKED BY L. Wardrip													
NO. DATE		DESCRIPTION		APPD.											
		REVISION													

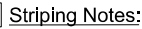


- 1.) Remove all conflicting striping and pavement markings.
- 2.) Refer to pavement marking standard detail blocks shown on Std. Drgs. TM500, P-435, P-440 and P-450.
- 3.) All longitudinal line work to be non-profile, 120 mil., extruded thermoplastic.
- 4.) All transverse line work to be Type "B-HS" thermoplastic.
- 5.) All legend, symbols and arrows to be Type "B-HS" thermoplastic.
- 6.) See shared lane pavement marking placement table on sheet S-13.

- Signing Notes:**
- 1.) Refer to traffic sign bubble legend shown on sheet S-10.
 - 2.) Refer to traffic sign & post data table shown on sheet S-11 thru S-12.
 - 3.) Refer to signing standard drawings P-400 thru P-420.



174 SECTION
3238
PROJECT NO.
T00728
E11115
SHEET NO.
S-3

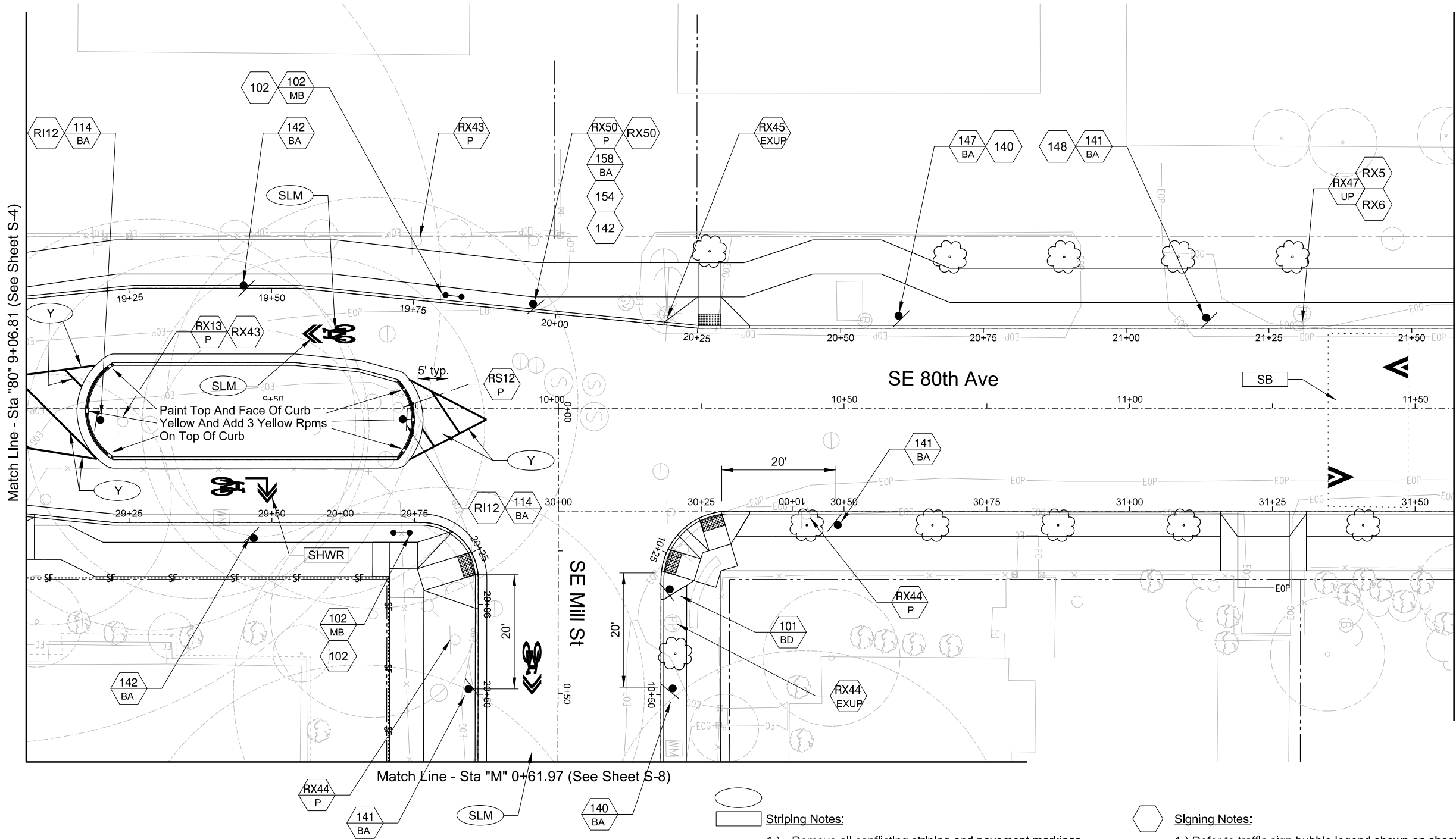


- Signing Notes:

-

				DESIGNED BY J Finkle	DATE APPROVED June 2019		APPROVALS:	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E.	 S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Striping and Signing Plan SE 80th Ave at SE Stephens St	174 SECTION 3238
				CAD BY P. Ferreira			CITY TRAFFIC ENGINEER REG. PROF. ENGR. NO. 16399PE 			PROJECT NO. T00728 E11115
				CHECKED BY L. Wardrip			CITY ENGINEER REG. PROF. ENGR. NO. 51538PE 			SHEET NO.
										S-4
NO.	DATE	DESCRIPTION	APPD.							
REVISION										

Plot Date: 6/24/2019 9:13:22 AM
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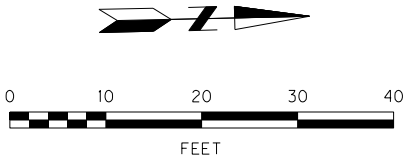


Striping Notes:

- 1.) Remove all conflicting striping and pavement markings.
- 2.) Refer to pavement marking standard detail blocks shown on Std. Drgs. TM500, P-435, P-440 and P-450.
- 3.) All longitudinal line work to be non-profile, 120 mil., extruded thermoplastic.
- 4.) All transverse line work to be Type "B-HS" thermoplastic.
- 5.) All legend, symbols and arrows to be Type "B-HS" thermoplastic.
- 6.) See shared lane pavement marking placement table on sheet S-13.

Signing Notes:

- 1.) Refer to traffic sign bubble legend shown on sheet S-10.
- 2.) Refer to traffic sign & post data table shown on sheet S-11 thru S-12.
- 3.) Refer to signing standard drawings P-400 thru P-420.

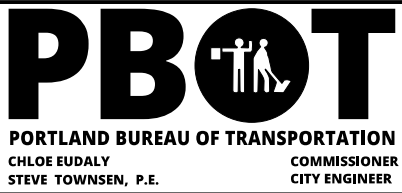


NO.	DATE	DESCRIPTION	APPD.
REVISION			

DESIGNED BY <i>J Finkle</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	
CHECKED BY <i>L. Wardrip</i>	

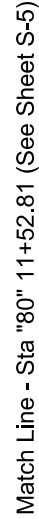


APPROVALS:	
CITY TRAFFIC ENGINEER <i>Lewis Wardrip</i>	REG. PROF. ENGR. NO. 16399PE
CITY ENGINEER <i>Steve Townsend</i>	REG. PROF. ENGR. NO. 51538PE



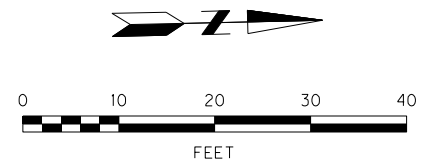
S.E. 80th Avenue & S.E. Mill Street LID
S.E. Lincoln St. to S.E. Market St.
Striping and Signing Plan
SE 80th Ave
at SE Mill St

1/4 SECTION 3238
PROJECT NO. T00728 E11115
SHEET NO. S-5

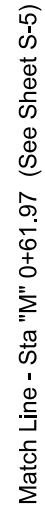


-  Signing Notes:

 - 1.) Refer to traffic sign bubble legend shown on sheet S-10.
 - 2.) Refer to traffic sign & post data table shown on sheet S-11 thru S-12.
 - 3.) Refer to signing standard drawings P-400 thru P-420.



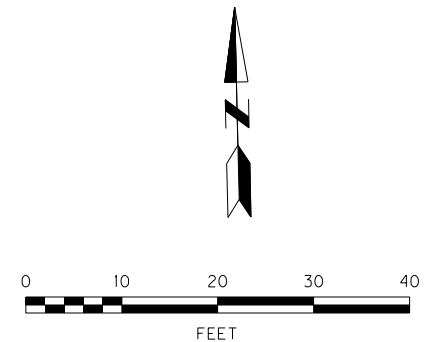
			DESIGNED BY J Finkle	DATE APPROVED June 2019		APPROVALS:			S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Striping and Signing Plan SE 80th Ave at SE Market St	174 SECTION 3238
			CAD BY P. Ferreira			Lewis Wardrip CITY TRAFFIC ENGINEER REG. PROF. ENGR. NO. 16399PE				PROJECT NO. T00728 E11115
			CHECKED BY L. Wardrip			 CITY ENGINEER REG. PROF. ENGR. NO. 51538PE				SHEET NO.
NO.	DATE	DESCRIPTION	APPD.							S-6
REVISION										



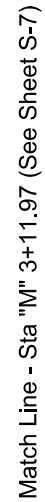
Match Line - Sta "M" 3+11.97 (See Sheet S-8)

-  Signing Notes:

 - 1.) Refer to traffic sign bubble legend shown on sheet S-10.
 - 2.) Refer to traffic sign & post data table shown on sheet S-11 thru S-12.
 - 3.) Refer to signing standard drawings P-400 thru P-420.

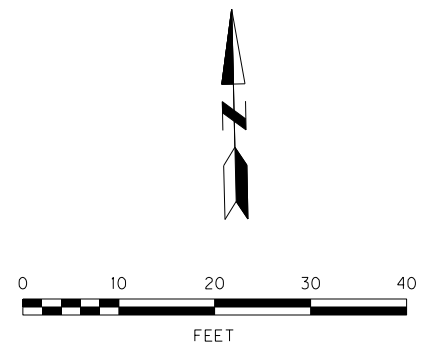


			DESIGNED BY J Finkle	DATE APPROVED June 2019		APPROVALS:			S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Striping and Signing Plan SE Mill St east of SE 80th Ave	174 SECTION 3238	
			CAD BY P. Ferreira			CITY TRAFFIC ENGINEER				REG. PROF. ENGR. NO. 16399PE	PROJECT NO. T00728 E11115
			CHECKED BY L. Wardrip			CITY ENGINEER				REG. PROF. ENGR. NO. 51538PE	SHEET NO.
NO.	DATE	DESCRIPTION	APPD.								S-7
REVISION											



Match Line - Sta "M" 5+61.97 (See Sheet S-9)

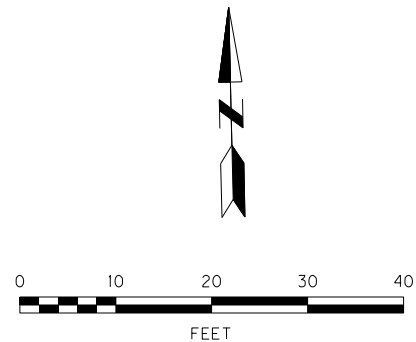
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			DESIGNED BY J Finkle	DATE APPROVED June 2019		APPROVALS:			S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Striping and Signing Plan SE Mill St midway SE 80th Ave & SE 82nd Ave	174 SECTION 3238
			CAD BY P. Ferreira			Lewis Wardrip CITY TRAFFIC ENGINEER REG. PROF. ENGR. NO. 16399PE				PROJECT NO. T00728 E11115
			CHECKED BY L. Wardrip			 CITY ENGINEER REG. PROF. ENGR. NO. 51538PE				SHEET NO.
NO.	DATE	DESCRIPTION	APPD.							
REVISION										S-8



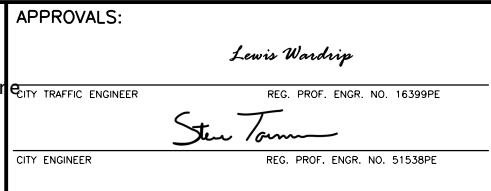
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- Signing Notes:
- 1.) Refer to traffic sign bubble legend shown on sheet S-10.
 - 2.) Refer to traffic sign & post data table shown on sheet S-11 thru S-12.
 - 3.) Refer to signing standard drawings P-400 thru P-420.



			DESIGNED BY J Finkle	DATE APPROVED June 2019		APPROVALS:	 PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY STEVE TOWNSEN, P.E.	 S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Striping and Signing Plan SE Mill St at SE 82nd Ave	174 SECTION 3238
			CAD BY P. Ferreira			Lewis Wardrip CITY TRAFFIC ENGINEER REG. PROF. ENGR. NO. 16399PE			PROJECT NO. T00728 E11115
			CHECKED BY L. Wardrip			 CITY ENGINEER REG. PROF. ENGR. NO. 51538PE			SHEET NO.
NO.	DATE	DESCRIPTION	APPD.						S-9
			REVISION						

		DESIGNED BY J Finkle	DATE APPROVED June 2019		APPROVALS:			S.E. 80th
		CAD BY P. Ferreira						S.E. L
		CHECKED BY L. Wardrip						Sign
DESCRIPTION REVISION		APPD.			CITY TRAFFIC ENGINEER REG. PROF. ENGR. NO. 16399PE CITY ENGINEER REG. PROF. ENGR. NO. 51538PE			

DESIGNED BY <i>J Finkle</i>	DATE APPROVED <i>June 2019</i>
CAD BY <i>P. Ferreira</i>	
CHECKED BY <i>L. Wardrip</i>	



1/4 SECTION	3238
PROJECT NO.	T00728 E11115
SHEET NO.	S-11

Plot Date: 6/24/2018					
NO.	DATE	DESCRIPTION			APPD.
REVISION					

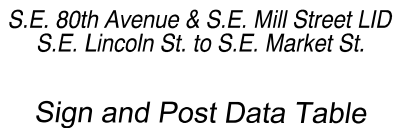
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ENGINEER
16660PE
digital signature
OREGON
JULY 20, 1993
JEANNE-MARIE JEFFREY
Expires 06/20/2019

PBOT

PORTLAND BUREAU OF TRANSPORTATION

CHLOE EUDALY
STEVE TOWNSEN, P.E.

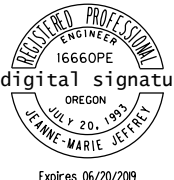
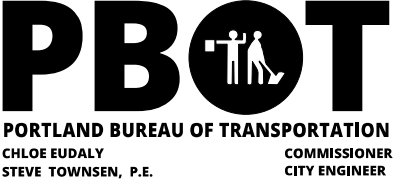
COMMISSIONER
CITY ENGINEER



Plot Date: 6/24/2019 9:13:32 AM
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Share Lane Pavement Marking Placement Table								
Sheet	Location Information					Offset Information	Sharrow Infromation	
	Street	Distance	Direction	Reference 1/	Cross-street	Distance 2/	Type	Orientation
S-4	SE Stephens St	25'	W	W Curb	SE 80th Ave	7'	SLM	WB
S-4	SE 80th Ave	25'	N	N Curb	SE Stephens St	13'	SLM	NB
S-4	SE 80th Ave	89'	N	N Curb	SE Stephens St	13'	SHWR	SB
S-5	SE 80th Ave	40'	S	S Curb	SE Mill St	6.5'	SHWR	NB
S-5	SE 80th Ave	25'	S	S Curb	SE Mill St	5.5'	SLM	SB
S-5	SE Mill St	25'	E	E Curb	SE 80th Ave	13'	SLM	EB
S-7	SE Mill St	112'	E	E Curb	SE 80th Ave	13'	SHWL	WB
S-7	SE Mill St	243'	E	E Curb	SE 80th Ave	13'	SLM	EB
S-8	SE Mill St	380'	E	E Curb	SE 80th Ave	13'	SLM	WB
S-8	SE Mill St	475'	E	E Curb	SE 80th Ave	14'	SLM	EB
S-9	SE Mill St	25'	W	W Curb	SE 82nd Ave	14'	SLM	WB

- 1/ ALL SHARROWS ARE REFERENCED FROM THE PRIMARY CURB LINE (I.E. NOT CURB EXTENSIONS OR BULBS)
- 2/ ALL OFFSETS ARE REFERENCED FROM THE CURB OR EDGE OF PAVEMENT TO THE CENTERLINE OF THE SHARROW IN THE DIRECTION IN WHICH IT IS ORIENTED

				DESIGNED BY <i>J Finkle</i>	DATE APPROVED <i>June 2019</i>		APPROVALS:			S.E. 80th Avenue & S.E. Mill Street LID S.E. Lincoln St. to S.E. Market St. Shared Lane Marking Table	1/4 SECTION 3238
			CAD BY <i>P. Ferreira</i>		CITY TRAFFIC ENGINEER		REG. PROF. ENGR. NO. 16399PE				PROJECT NO. T00728 E11115
			CHECKED BY <i>L. Wardrip</i>		CITY ENGINEER		REG. PROF. ENGR. NO. 51538PE				SHEET NO.
NO.	DATE	DESCRIPTION	APPD.								S-13
REVISION											