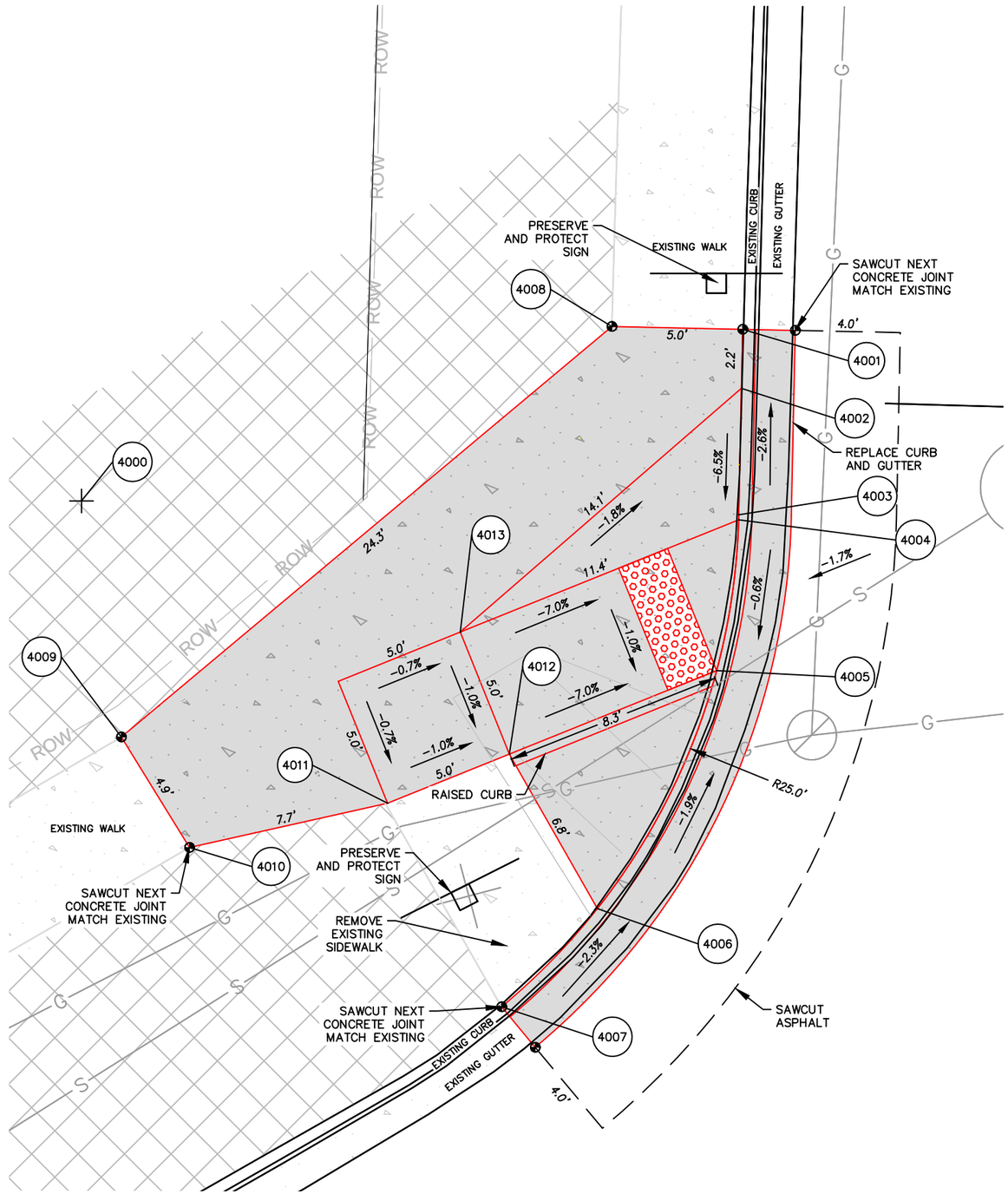
POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4000	879099.186	4287509.307	0.00	25' RAD PT.
4001	879105.716	4287534.448	515.25	TBC
4002	879103.470	4287534.401	515.31	TBC
4003	879098.667	4287534.302	514.99	TBC@PC
4004	879098.471	4287534.297	514.98	TBC
4005	879092.744	4287533.463	514.92	TBC
4006	879083.688	4287528.924	515.60	TBC
4007	879079.957	4287525.284	515.71	TBC
4008	879105.819	4287529.477	515.40	SW
4009	879090.215	4287510.824	516.04	SW
4010	879086.017	4287513.412	515.95	SW
4011	879087.697	4287520.942	515.57	SW
4012	879089.566	4287525.580	515.52	RAMP TOP
4013	879094.203	4287523.710	515.57	RAMP TOP



THURSTON ROAD AND 66TH STREET

NORTHWEST CORNER

No.	Revision/Issue	Date

NOTE:

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SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
70925
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF
EXPIRES: 12/31/22

RAMP DETAILS

1" = 5'

DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

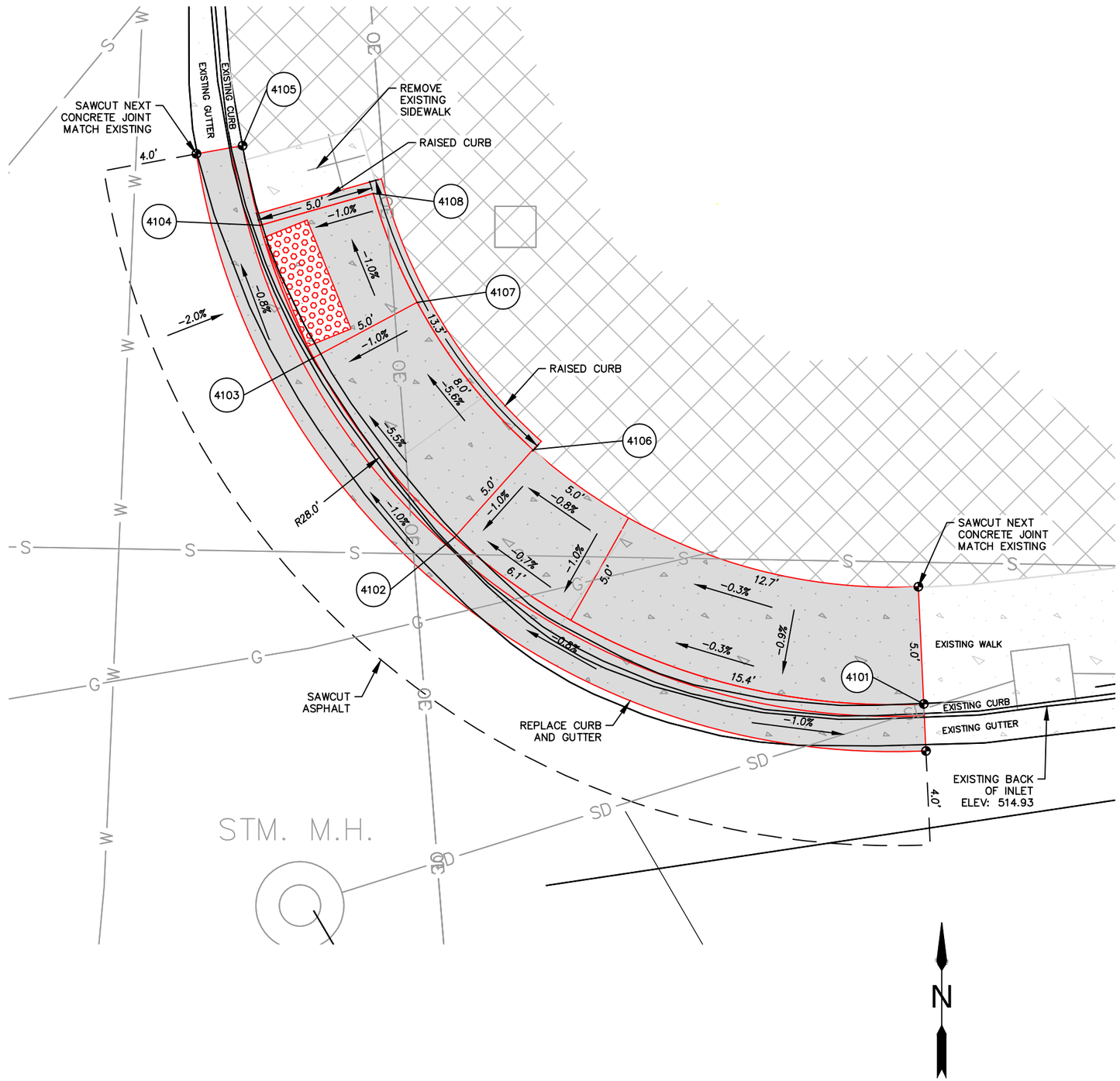
SHEET J40 OF 000

February 24, 2021

00920030_sheets_64th-69th.dwg

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4100	879120.759	4287596.269	0.00	28' RAD PT.
4101	879092.789	4287597.566	515.50	TBC
4102	879099.892	4287577.599	515.50	TBC
4103	879107.529	4287571.592	514.96	TBC
4104	879113.175	4287569.316	514.91	TBC
4105	879116.565	4287568.573	515.34	TBC
4106	879103.618	4287580.933	515.55	RAMP TOP
4107	879109.892	4287575.998	515.01	RAMP BTM
4108	879114.529	4287574.129	514.96	SW



THURSTON ROAD AND 66TH STREET

NORTHEAST CORNER

No.	Revision/Issue	Date

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JUNE 14, 2007
STANLEY ANGELOFF PETROFF
EXPIRES: 12/31/22

RAMP DETAILS

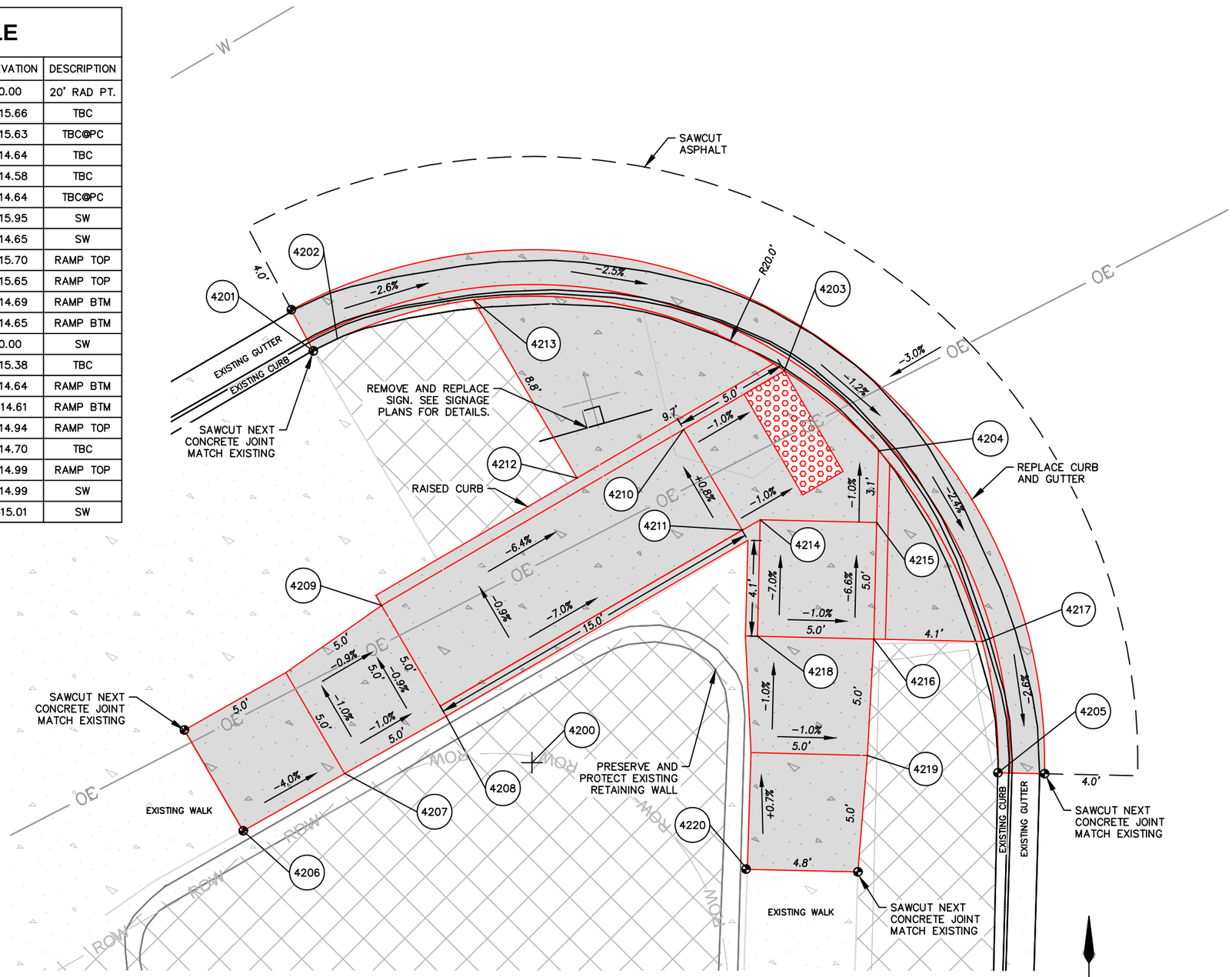
1" = 5'

DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

SHEET J41 OF 000

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4200	878994.841	4287508.666	0.00	20' RAD PT.
4201	879012.504	4287499.284	515.66	TBC
4202	879013.016	4287500.319	515.63	TBC@PC
4203	879011.654	4287519.498	514.64	TBC
4204	879008.218	4287523.534	514.58	TBC
4205	878994.412	4287528.662	514.64	TBC@PC
4206	878991.919	4287496.276	515.95	SW
4207	878994.382	4287500.628	514.65	SW
4208	878996.835	4287504.986	515.70	RAMP TOP
4209	879001.584	4287502.218	515.65	RAMP TOP
4210	879009.136	4287515.178	514.69	RAMP BTM
4211	879004.816	4287517.696	514.65	RAMP BTM
4212	879007.051	4287510.607	0.00	SW
4213	879014.683	4287506.159	515.38	TBC
4214	879005.262	4287518.461	514.64	RAMP BTM
4215	879005.142	4287523.460	514.61	RAMP BTM
4216	879000.143	4287523.339	514.94	RAMP TOP
4217	879000.031	4287527.981	514.70	TBC
4218	879000.264	4287518.341	514.99	RAMP TOP
4219	878995.149	4287523.064	514.99	SW
4220	878990.271	4287517.907	515.01	SW



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THURSTON ROAD AND 66TH STREET

SOUTHWEST CORNER

No.	Revision/Issue	Date

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70925
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF
EXPIRES: 12/31/22

RAMP DETAILS

1" = 5'

DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

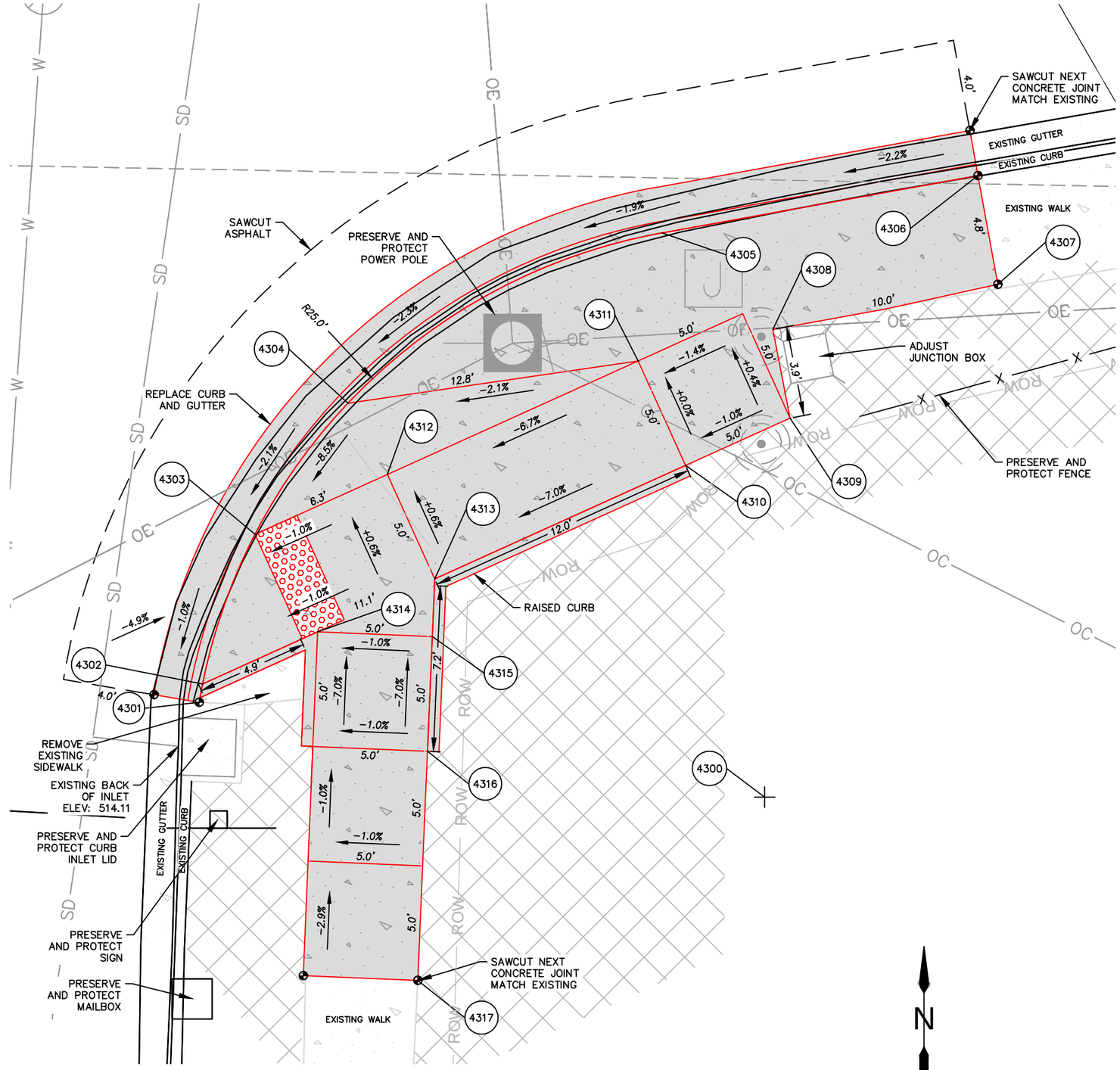
SHEET J42 OF 000

00920030_sheets_64th-69th.dwg

February 24, 2021

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4300	879020.253	4287591.418	0.00	25' RAD PT.
4301	879024.392	4287566.763	514.74	TBC
4302	879025.192	4287566.911	514.22	TBC
4303	879031.716	4287569.201	514.30	TBC
4304	879037.427	4287573.250	514.91	TBC
4305	879044.850	4287586.948	515.26	TBC@PC
4306	879047.353	4287600.716	515.57	TBC
4307	879042.614	4287601.577	515.74	SW
4308	879040.645	4287591.771	515.25	SW
4309	879036.780	4287592.519	515.22	SW
4310	879034.718	4287587.964	515.17	RAMP TOP
4311	879039.274	4287585.903	515.17	RAMP TOP
4312	879034.327	4287574.970	514.37	RAMP BTM
4313	879029.771	4287577.031	514.33	RAMP BTM
4314	879027.463	4287571.929	514.28	RAMP BTM
4315	879027.253	4287576.925	514.33	RAMP BTM
4316	879022.257	4287576.715	514.68	RAMP TOP
4317	879012.266	4287576.294	514.87	SW



THURSTON ROAD AND 66TH STREET

SOUTHEAST CORNER

No.	Revision/Issue	Date

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REGISTERED PROFESSIONAL ENGINEER
70925
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF
EXPIRES: 12/31/22

RAMP DETAILS

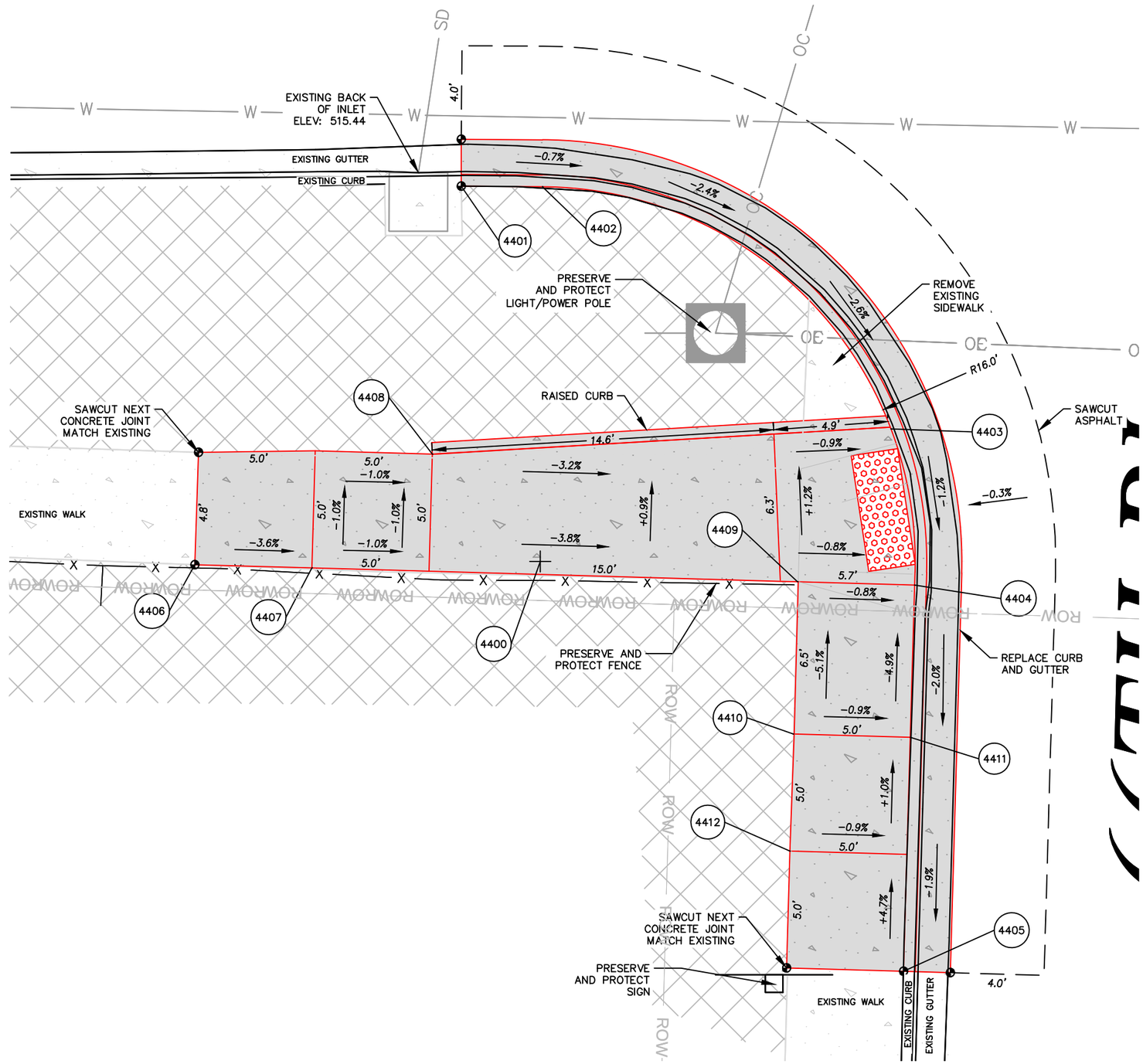
1" = 5'

DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

SHEET J43 OF 000

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4400	879038.065	4287971.654	0.00	16' RAD PT.
4401	879054.084	4287968.278	515.99	TBC
4402	879054.065	4287971.743	516.04	TBC@PC
4403	879043.717	4287986.623	515.15	TBC
4404	879037.051	4287987.632	515.08	TBC@PC
4405	879020.558	4287987.162	515.12	TBC
4406	879037.921	4287956.908	515.93	SW
4407	879037.785	4287961.906	515.75	RAMP TOP
4408	879042.642	4287967.047	515.65	RAMP TOP
4409	879037.194	4287982.634	515.13	RAMP BTM
4410	879030.696	4287982.449	515.45	RAMP TOP
4411	879030.554	4287987.447	515.40	RAMP TOP
4412	879025.698	4287982.306	515.40	SW



THURSTON ROAD AND 66TH PLACE

SOUTHWEST CORNER

No.	Revision/Issue	Date

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JUNE 14, 2007
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EXPIRES: 12/31/22

RAMP DETAILS

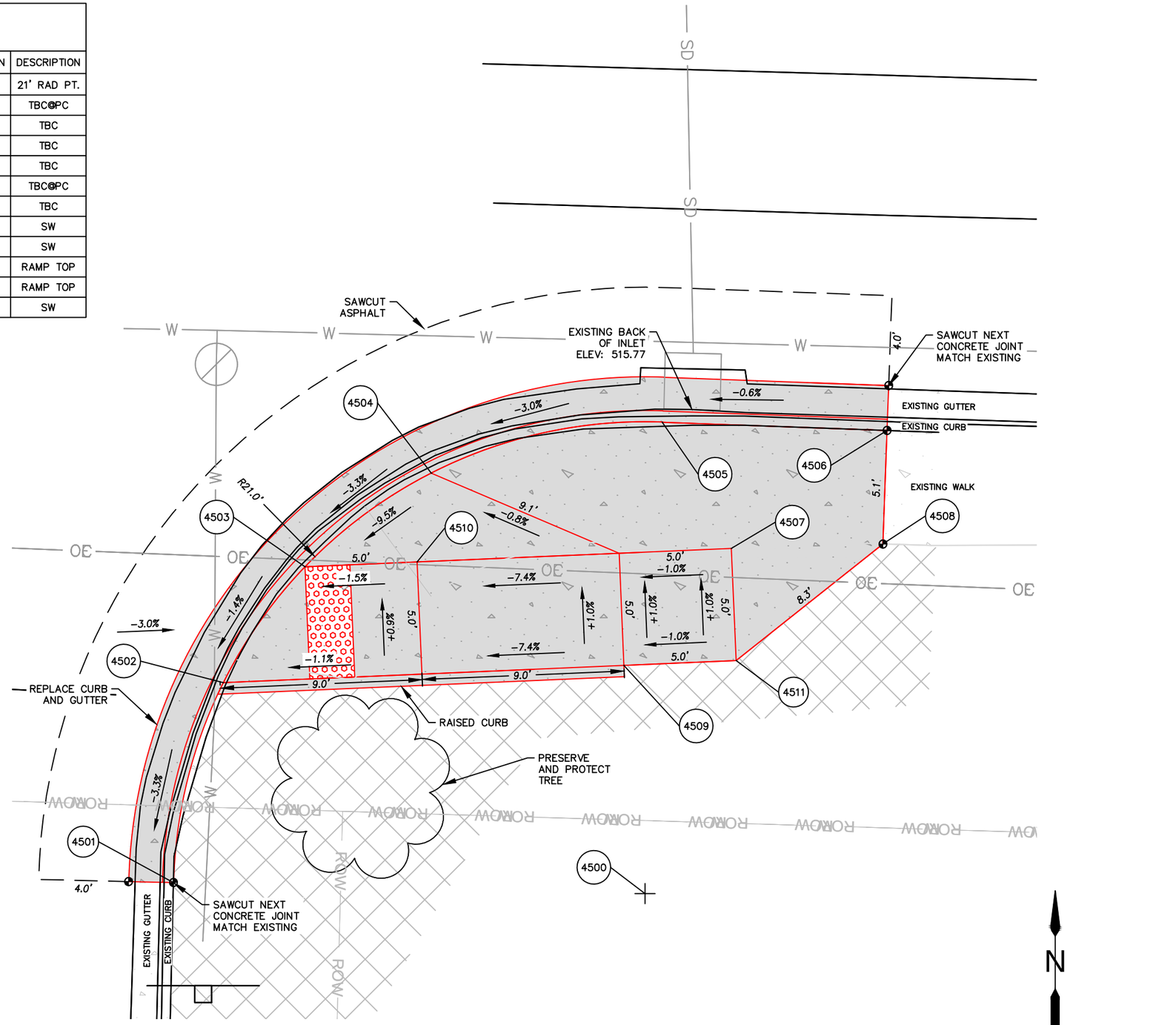
1" = 5'

DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

SHEET J44 OF 000

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4500	879030.953	4288043.339	0.00	21' RAD PT.
4501	879031.446	4288022.344	515.37	TBC@PC
4502	879040.345	4288024.556	515.19	TBC
4503	879045.507	4288028.200	515.26	TBC
4504	879049.672	4288033.821	515.93	TBC
4505	879051.939	4288044.109	516.26	TBC@PC
4506	879051.573	4288054.114	516.36	TBC
4507	879046.324	4288047.182	516.06	SW
4508	879046.522	4288053.929	516.39	SW
4509	879041.113	4288042.402	515.96	RAMP TOP
4510	879045.722	4288033.195	515.34	RAMP TOP
4511	879041.328	4288047.397	516.01	SW



THURSTON ROAD AND 66TH PLACE

SOUTHEAST CORNER

No.	Revision/Issue	Date

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RAMP DETAILS

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DRAWN BY:	S. WEST
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CHECKED BY:	C. SALO

SHEET J45 OF 000

February 24, 2021

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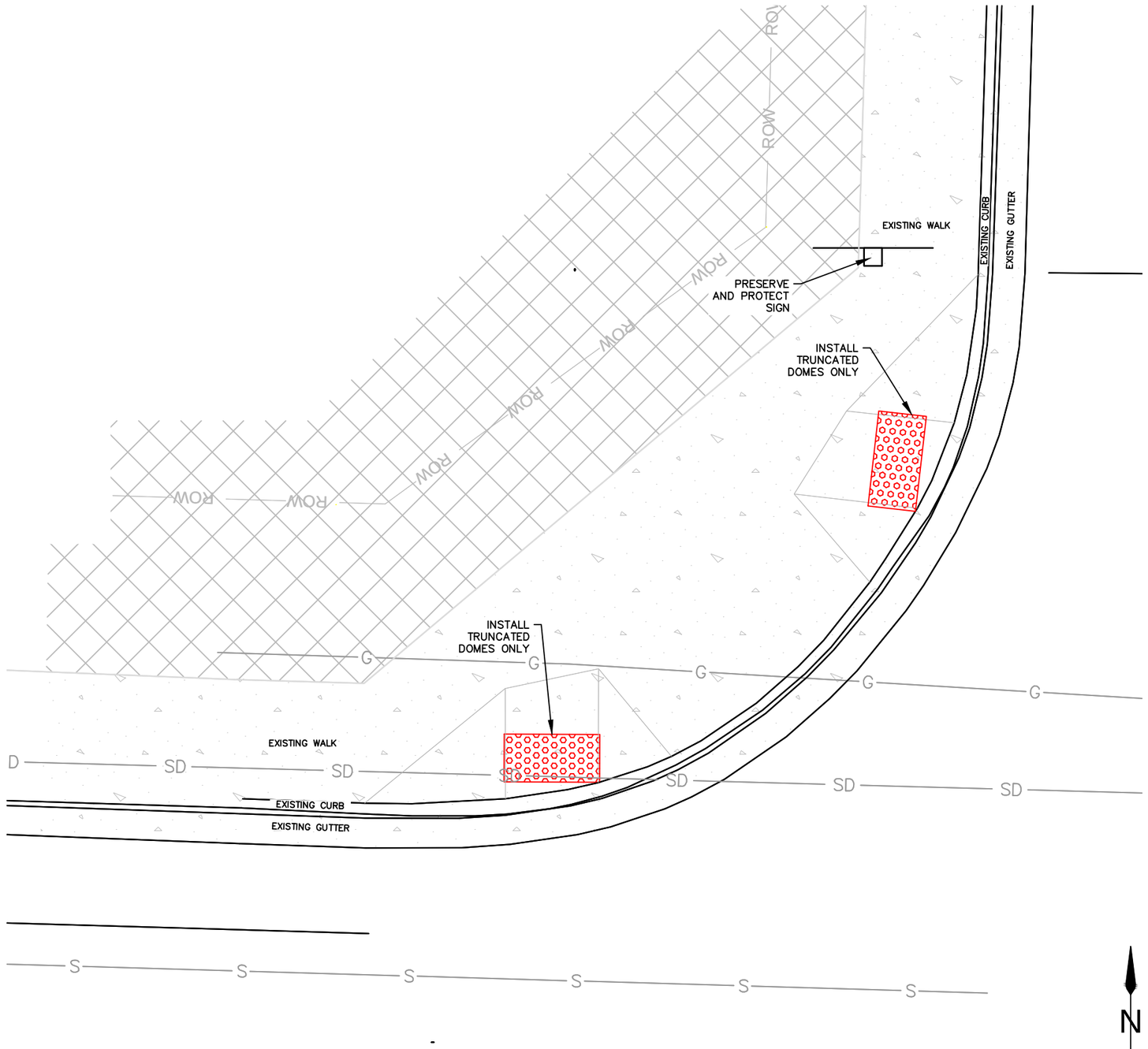

THURSTON ROAD AND 67TH STREET

NORTHWEST CORNER

0 2.5 5 10

No.	Revision/Issue	Date

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EXPIRES: 12/31/22

RAMP DETAILS

1" = 5'	
DRAWN BY:	S. WEST
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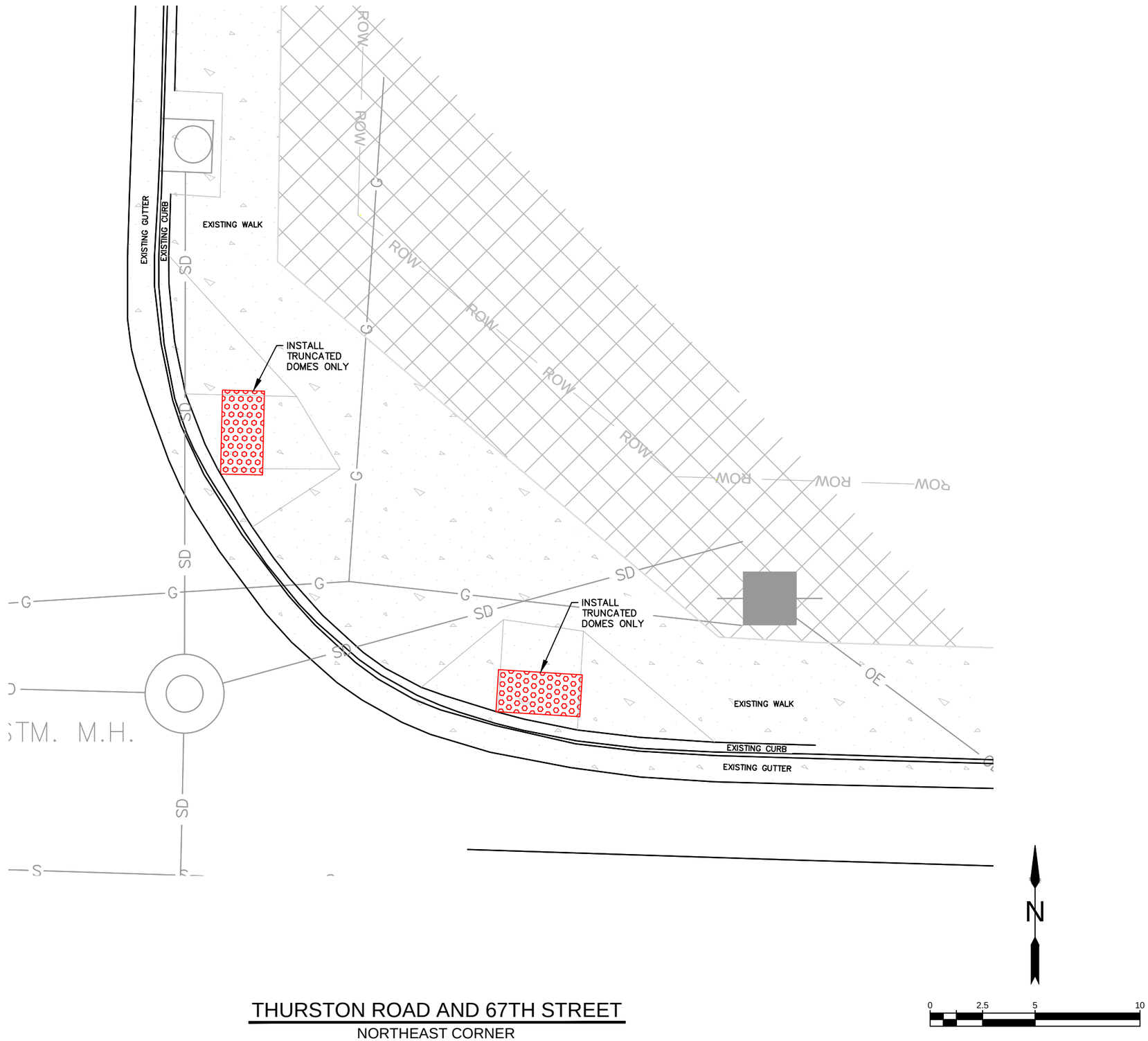
SHEET **J46** OF **000**



THURSTON ROAD AND 67TH STREET

NORTHEAST CORNER

No.	Revision/Issue	Date

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STANLEY ANGELOFF PETROFF
EXPIRES: 12/31/22

RAMP DETAILS

1" = 5'	
DRAWN BY:	S. WEST
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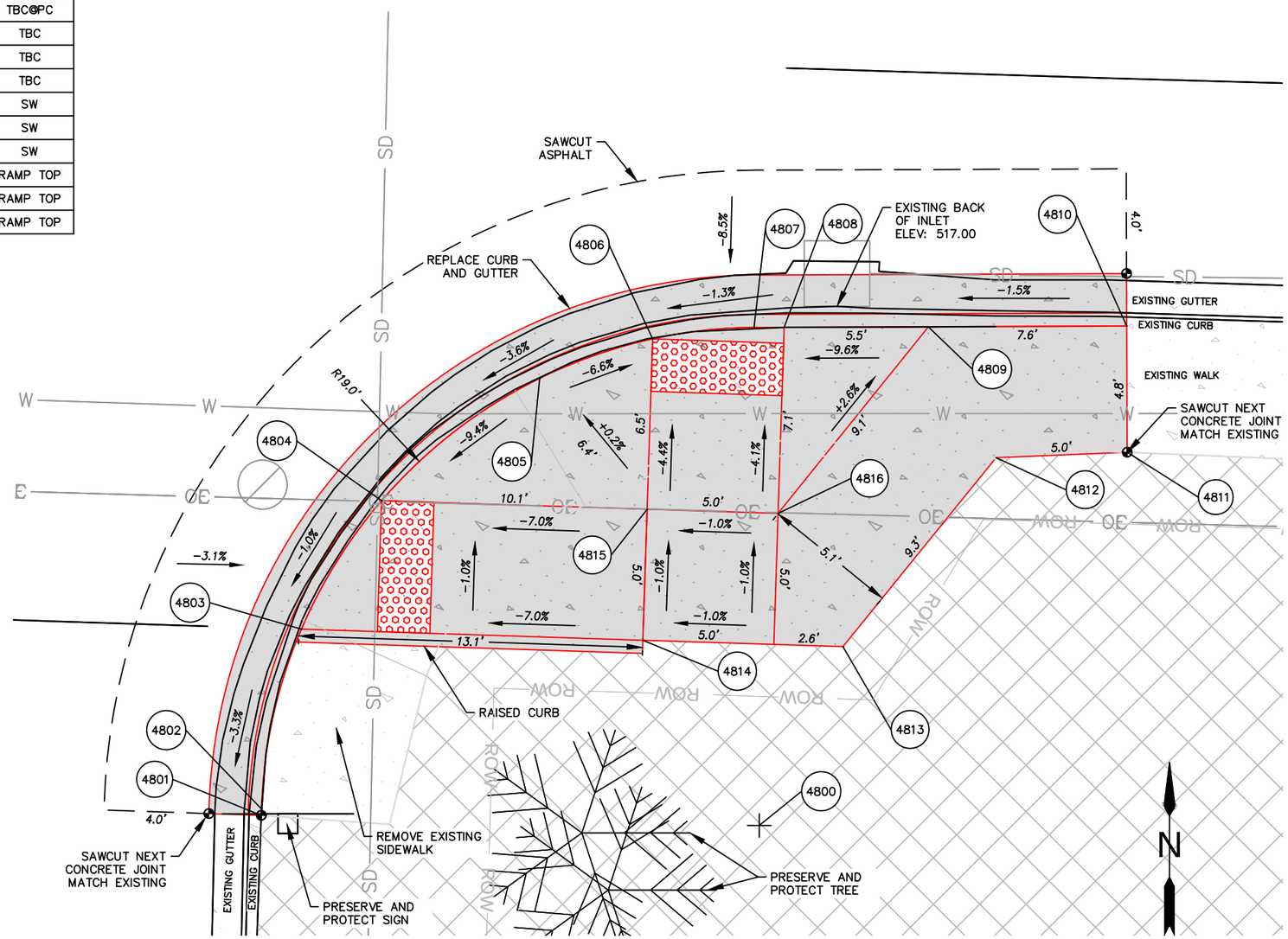
CHECKED BY:	C. SALO

SHEET **J47** OF **000**

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4800	879023.223	4288340.468	0.00	19' RAD PT.
4801	879023.608	4288321.470	516.70	TBC
4802	879023.857	4288321.478	516.71	TBC@PC
4803	879030.710	4288323.005	516.49	TBC
4804	879035.614	4288326.064	516.55	TBC
4805	879040.278	4288332.093	517.27	TBC
4806	879041.783	4288336.402	516.97	TBC
4807	879042.222	4288340.271	517.01	TBC@PC
4808	879042.227	4288341.419	517.02	TBC
4809	879042.247	4288346.919	517.55	TBC
4810	879042.274	4288354.485	517.67	TBC
4811	879037.458	4288354.502	517.87	SW
4812	879037.256	4288349.503	517.70	SW
4813	879030.042	4288343.660	517.39	SW
4814	879030.289	4288336.030	517.31	RAMP TOP
4815	879035.286	4288336.192	517.26	RAMP TOP
4816	879035.125	4288341.189	517.31	RAMP TOP



THURSTON ROAD AND 67TH STREET

SOUTHEAST CORNER

No.	Revision/Issue	Date

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OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF

EXPIRES: 12/31/22

RAMP DETAILS

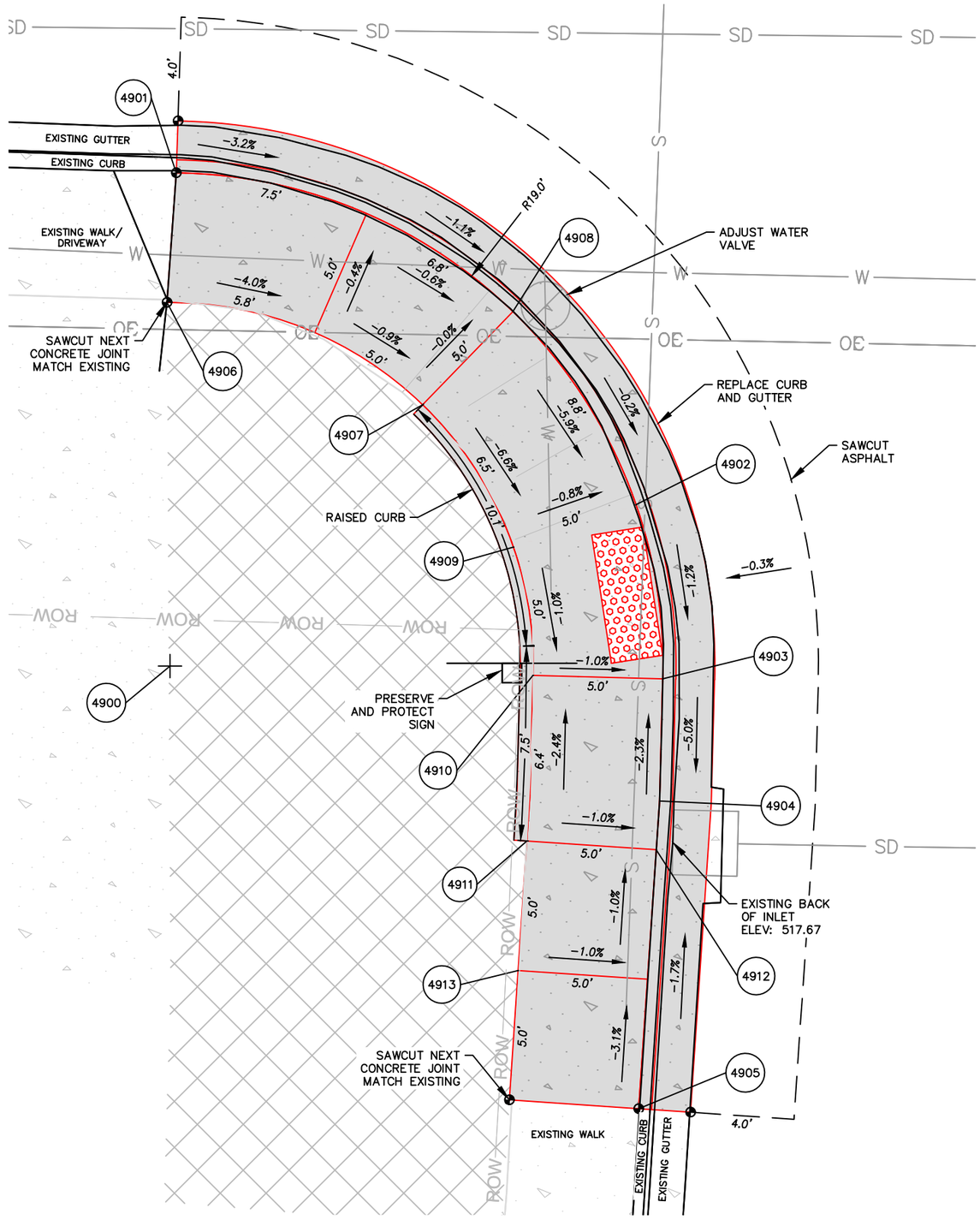
1" = 5'

DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

SHEET **J48** OF **000**

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4900	879017.756	4288523.680	0.00	19' RAD PT.
4901	879036.758	4288523.928	518.86	TBC
4902	879023.967	4288541.636	518.12	TBC
4903	879017.263	4288542.673	518.05	TBC
4904	879012.553	4288542.551	518.16	TBC@PC
4905	879000.699	4288541.749	518.41	TBC
4906	879031.767	4288523.565	518.91	SW
4907	879027.815	4288533.418	518.61	RAMP TOP
4908	879031.407	4288536.896	518.61	RAMP TOP
4909	879022.333	4288536.911	518.15	RAMP TOP
4910	879017.393	4288537.675	518.10	RAMP TOP
4911	879011.013	4288537.435	518.25	RAMP TOP
4912	879010.676	4288542.424	518.20	RAMP TOP
4913	879006.025	4288537.098	518.30	SW



THURSTON ROAD AND 67TH PLACE

SOUTHWEST CORNER

0 2.5 5 10

No.	Revision/Issue	Date

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DOWL
920 Country Club Rd., Suite 100B
Eugene, OR 97401
541-683-6090
WWW.DOWL.COM

Project P21152
HIGHBANKS & THURSTON OVERLAY

City of Springfield
PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

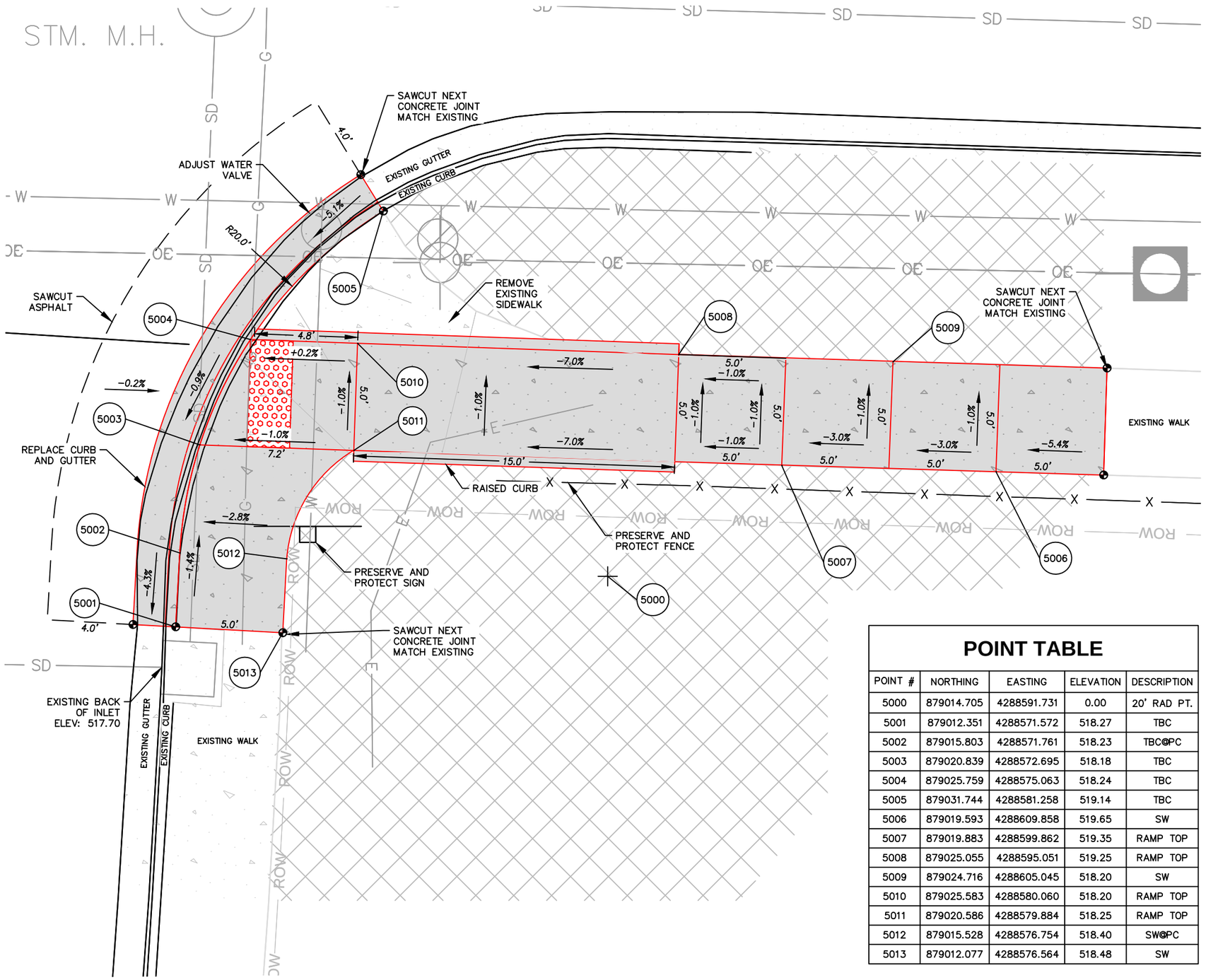
REGISTERED PROFESSIONAL ENGINEER
70925
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF
EXPIRES: 12/31/22

RAMP DETAILS

1" = 5'

DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

SHEET J49 OF 000



POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5000	879014.705	4288591.731	0.00	20' RAD PT.
5001	879012.351	4288571.572	518.27	TBC
5002	879015.803	4288571.761	518.23	TBC@PC
5003	879020.839	4288572.695	518.18	TBC
5004	879025.759	4288575.063	518.24	TBC
5005	879031.744	4288581.258	519.14	TBC
5006	879019.593	4288609.858	519.65	SW
5007	879019.883	4288599.862	519.35	RAMP TOP
5008	879025.055	4288595.051	519.25	RAMP TOP
5009	879024.716	4288605.045	518.20	SW
5010	879025.583	4288580.060	518.20	RAMP TOP
5011	879020.586	4288579.884	518.25	RAMP TOP
5012	879015.528	4288576.754	518.40	SW@PC
5013	879012.077	4288576.564	518.48	SW

N

0 2.5 5 10

THURSTON ROAD AND 67TH PLACE

SOUTHEAST CORNER

No.	Revision/Issue	Date

NOTE:

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70925
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF
EXPIRES: 12/31/22

RAMP DETAILS

1" = 5'

DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

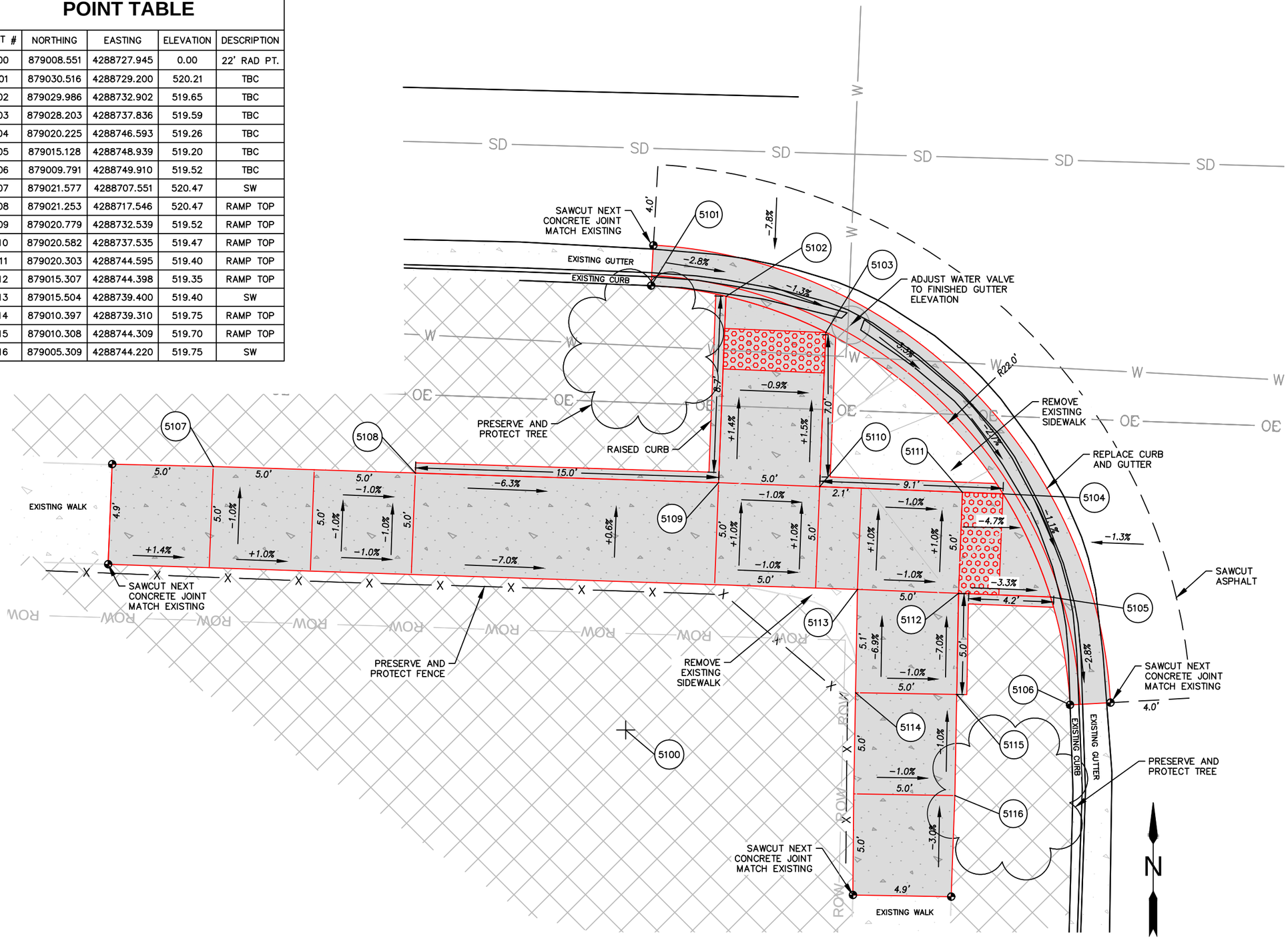
SHEET J50 OF 000

February 24, 2021

00920030_sheets_64th-69th.dwg

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5100	879008.551	4288727.945	0.00	22' RAD PT.
5101	879030.516	4288729.200	520.21	TBC
5102	879029.986	4288732.902	519.65	TBC
5103	879028.203	4288737.836	519.59	TBC
5104	879020.225	4288746.593	519.26	TBC
5105	879015.128	4288748.939	519.20	TBC
5106	879009.791	4288749.910	519.52	TBC
5107	879021.577	4288707.551	520.47	SW
5108	879021.253	4288717.546	520.47	RAMP TOP
5109	879020.779	4288732.539	519.52	RAMP TOP
5110	879020.582	4288737.535	519.47	RAMP TOP
5111	879020.303	4288744.595	519.40	RAMP TOP
5112	879015.307	4288744.398	519.35	RAMP TOP
5113	879015.504	4288739.400	519.40	SW
5114	879010.397	4288739.310	519.75	RAMP TOP
5115	879010.308	4288744.309	519.70	RAMP TOP
5116	879005.309	4288744.220	519.75	SW



THURSTON ROAD AND 68TH STREET

SOUTHWEST CORNER

0 2.5 5 10

No.	Revision/Issue	Date

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SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
70925
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF
EXPIRES: 12/31/22

RAMP DETAILS

1" = 5'

DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

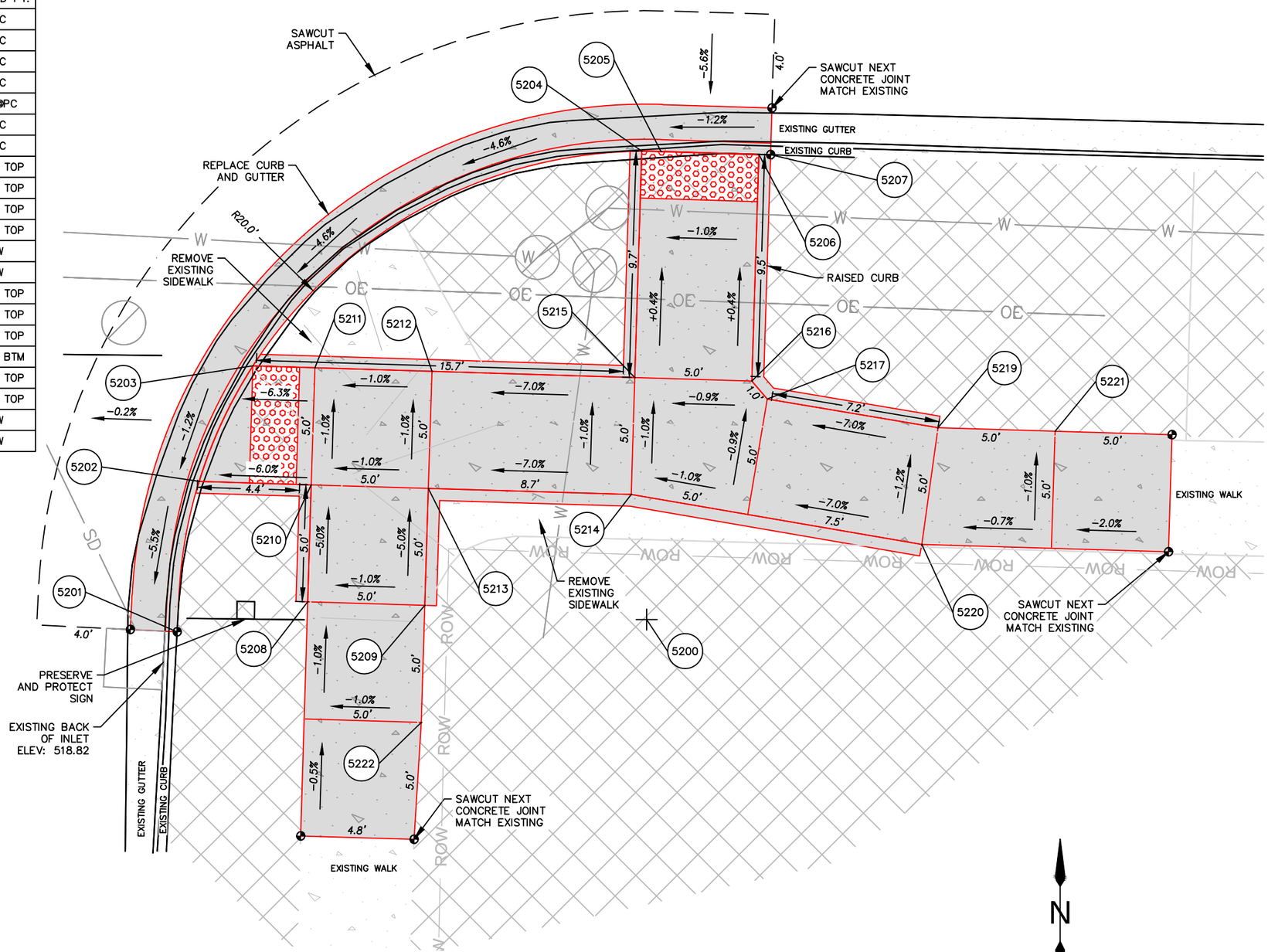
SHEET J51 OF 000

00920030_sheets_64th-69th.dwg

February 24, 2021

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5200	879008.140	4288807.224	0.00	20' RAD PT.
5201	879007.616	4288787.174	519.46	TBC
5202	879014.041	4288788.114	519.37	TBC
5203	879018.974	4288790.412	519.42	TBC
5204	879028.139	4288807.010	520.30	TBC
5205	879028.131	4288807.831	520.31	TBC@PC
5206	879028.004	4288812.008	520.35	TBC
5207	879027.989	4288812.508	520.82	TBC
5208	879008.898	4288792.751	519.91	RAMP TOP
5209	879008.746	4288797.748	519.96	RAMP TOP
5210	879013.896	4288792.903	519.66	RAMP TOP
5211	879018.894	4288793.054	519.61	RAMP TOP
5212	879018.742	4288798.052	519.66	SW
5213	879013.744	4288797.900	519.71	SW
5214	879013.481	4288806.564	520.31	RAMP TOP
5215	879018.478	4288806.716	520.26	RAMP TOP
5216	879018.327	4288811.714	520.31	RAMP TOP
5217	879017.560	4288812.370	520.31	RAMP BTM
5219	879016.334	4288819.657	520.83	RAMP TOP
5220	879011.353	4288818.965	520.89	RAMP TOP
5221	879016.182	4288824.654	520.88	SW
5222	879003.749	4288797.597	520.01	SW



THURSTON ROAD AND 68TH STREET

SOUTHEAST CORNER

No.	Revision/Issue	Date

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SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
70925
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF
EXPIRES: 12/31/22

RAMP DETAILS

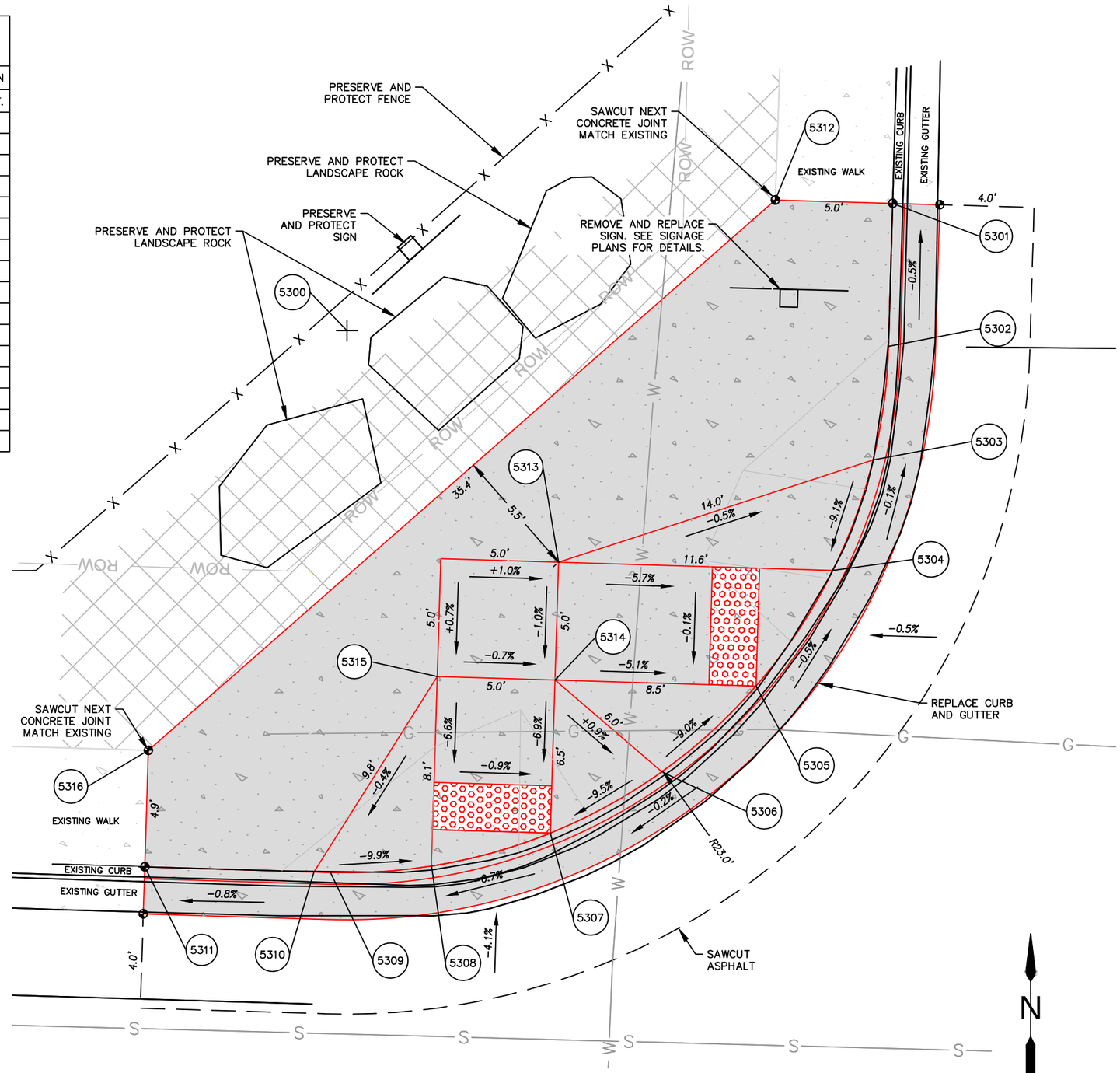
1" = 5'

DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

SHEET J52 OF 000

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5300	879098.597	4288729.386	0.00	23' RAD PT.
5301	879103.999	4288752.552	520.36	TBC
5302	879097.933	4288752.377	520.39	TBC@PC
5303	879093.119	4288751.725	520.42	TBC
5304	879088.421	4288750.013	519.98	TBC
5305	879083.517	4288746.753	520.01	TBC
5306	879079.882	4288742.756	520.50	TBC
5307	879077.279	4288738.020	519.99	TBC
5308	879075.879	4288732.976	519.95	TBC
5309	879075.607	4288728.690	520.37	TBC@PC
5310	879075.629	4288727.991	520.37	TBC
5311	879075.846	4288720.803	520.31	TBC
5312	879104.143	4288747.568	520.41	SW
5313	879088.774	4288738.369	520.50	RAMP TOP
5314	879083.776	4288738.217	520.45	RAMP TOP
5315	879083.927	4288733.220	520.48	RAMP TOP
5316	879080.787	4288720.952	520.41	SW



THURSTON ROAD AND 68TH STREET

NORTHWEST CORNER

No.	Revision/Issue	Date

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REGISTERED PROFESSIONAL ENGINEER
70925
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF
EXPIRES: 12/31/22

RAMP DETAILS

1" = 5'

DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

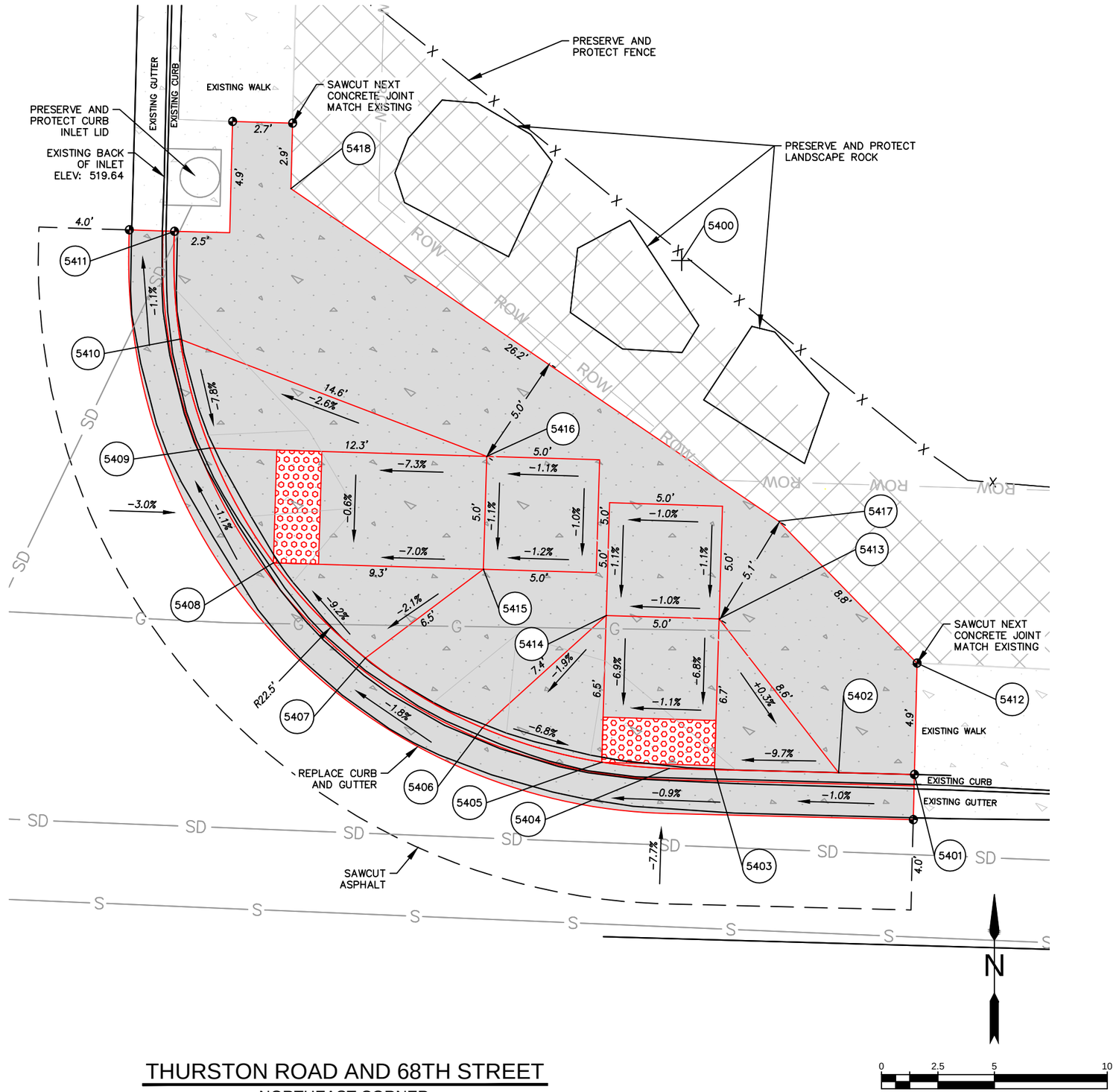
SHEET J53 OF 000

February 24, 2021

00920030_sheets_64th-69th.dwg

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5400	879095.480	4288811.923	0.00	22.5' RAD PT.
5401	879072.715	4288822.223	520.82	TBC
5402	879072.799	4288818.872	520.77	TBC
5403	879072.937	4288813.373	520.24	TBC
5404	879072.987	4288811.360	520.22	TBC@PC
5405	879073.261	4288808.381	520.19	TBC
5406	879074.784	4288803.096	520.57	TBC
5407	879077.877	4288797.909	520.48	TBC
5408	879082.090	4288793.840	519.94	TBC
5409	879087.178	4288791.010	519.88	TBC
5410	879092.002	4288789.693	520.27	TBC
5411	879096.775	4288789.452	520.20	TBC@PC
5412	879077.648	4288822.346	520.89	SW
5413	879079.606	4288813.576	520.70	RAMP TOP
5414	879079.758	4288808.578	520.65	RAMP TOP
5415	879081.809	4288803.138	520.59	RAMP TOP
5416	879086.806	4288803.290	520.64	RAMP TOP
5417	879083.933	4288816.217	520.77	SW
5418	879098.668	4288794.610	520.43	SW



THURSTON ROAD AND 68TH STREET

NORTHEAST CORNER

No.	Revision/Issue	Date

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SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER 70925

OREGON JUNE 14, 2007 STANLEY ANGELOFF PETROFF

EXPIRES: 12/31/22

RAMP DETAILS

1" = 5'

DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

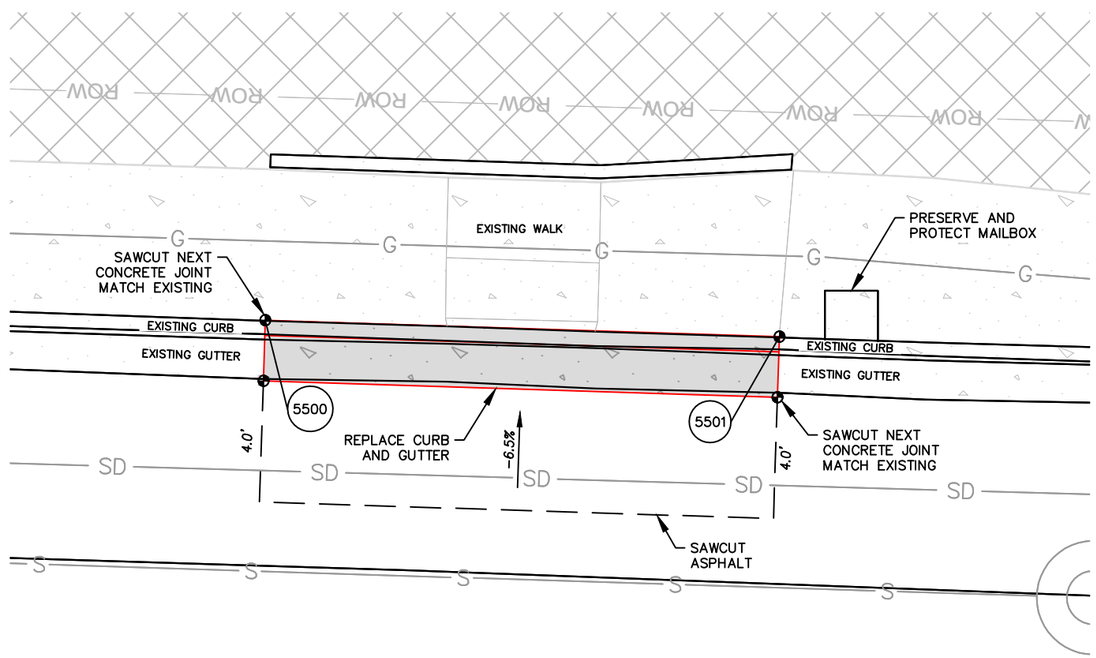
SHEET J54 OF 000

February 24, 2021

00920030_sheets_64th-69th.dwg

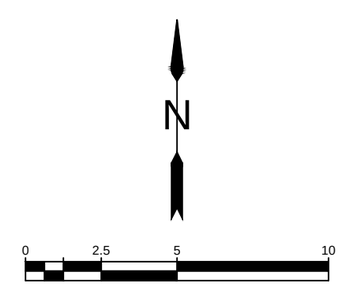
POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5500	879060.715	4289228.477	0.00±	TBC
5501	879060.168	4289245.437	0.00±	TBC



THURSTON ROAD AND 69TH STREET

NORTHWEST CORNER



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EXPIRES: 12/31/22

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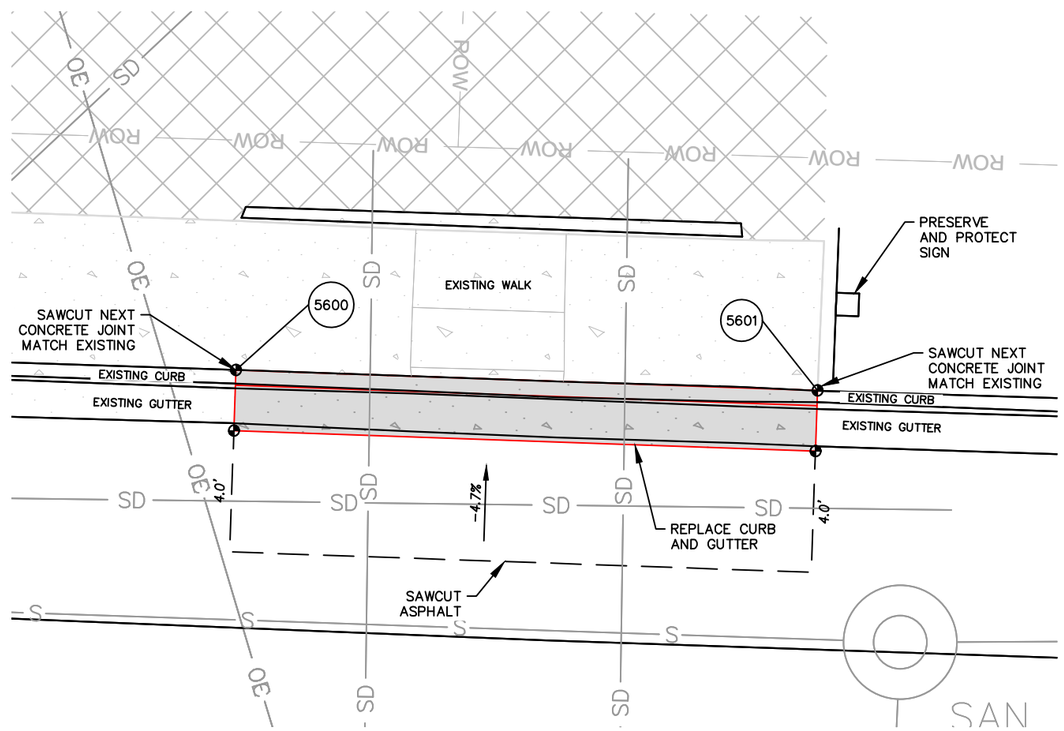
DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

SHEET **J55** OF **000**

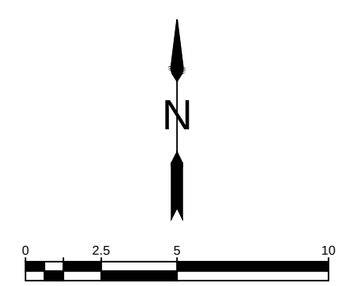
POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5600	879058.381	4289298.005	0.00±	TBC
5601	879057.709	4289317.187	0.00±	TBC



THURSTON ROAD AND 69TH STREET

NORTHEAST CORNER



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70925
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF

EXPIRES: 12/31/22

RAMP DETAILS

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DRAWN BY:	S. WEST
DESIGNED BY:	S. WEST
CHECKED BY:	C. SALO

SHEET **J56** OF **000**

EROSION CONTROL NOTES:

GENERAL NOTES:

1. PLACE INLET/CATCH BASIN PROTECTION AT EXISTING FIXTURES (SEE DETAILS ON SHT. Q02).
2. CONCRETE WASHOUTS ARE NOT PROVIDED ON THIS PROJECT.
3. SAW CUTTING SLURRY IS TO BE VACUUMED.
4. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) OR SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30) SHALL BE IMMEDIATELY STABILIZED WITH AN APPROVED ESC METHOD (SEEDING & MULCHING WITH STRAW, BARK, COMPOST, OR PLASTIC COVERING, ETC.).

EROSION CONTROL STANDARD NOTES:

A. APPROVAL OF THIS EROSION AND SEDIMENT CONTROL PLAN (ESCP) DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).

B. APPROVAL OF THIS ESCP DOES NOT RELIEVE THE PERMIT HOLDER AND OR THE CONTRACTOR FROM ALL OTHER PERMITTING REQUIREMENTS. PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES, ALL OTHER NECESSARY APPROVALS SHALL BE OBTAINED.

C. PRIOR TO ANY GROUND DISTURBANCE ON THE SITE ONE INSPECTION WITH LDAP STAFF IS REQUIRED. ISSUANCE OF THIS PLAN DOES NOT RELIEVE THE PERMIT HOLDER AND OR THE CONTRACTOR FROM ALL OTHER PERMITTING REQUIREMENTS. PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES, ALL OTHER NECESSARY APPROVALS SHALL BE OBTAINED

D. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE MEASURES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.

E. THE IMPLEMENTATION OF THE ESCP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THE EROSION AND SEDIMENT CONTROL MEASURES IS THE RESPONSIBILITY OF THE PERMIT HOLDER AND OR THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY THE CITY AND VEGETATION/LANDSCAPING IS ESTABLISHED PER THE REQUIRED WARRANTY PERIOD.

F. IN THE EVENT THE ESC FACILITIES IDENTIFIED ON THE ESCP ARE NOT FUNCTIONING PROPERLY, THE CONTRACTOR IS RESPONSIBLE FOR IMMEDIATELY IMPLEMENTING CHANGES TO THE ESCP AS DIRECTED BY THE ESCP ENGINEER OR HIS INSPECTOR. THE ENGINEER, HIS INSPECTOR, OR THE CITY MAY STOP ALL CONSTRUCTION ACTIVITY ON SITE UNTIL THE EROSION PROBLEM IS CORRECTED AND ALL ESC FACILITIES ARE FUNCTIONING PROPERLY. IF THE CONTRACTOR DOES NOT IMMEDIATELY IMPLEMENT CHANGES TO THE ESCP IDENTIFIED BY THE ESCP ENGINEER OR HIS INSPECTOR, THE CITY MAY IMPLEMENT THE NECESSARY CHANGES AND REQUIRE PAYMENT FROM THE CONTRACTOR PRIOR TO PROJECT ACCEPTANCE BY THE CITY.

G. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD BY THE ENGINEER PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE PERMIT HOLDER AND OR THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

H. THE EROSION AND SEDIMENT CONTROL MEASURES ON ACTIVE SITES SHALL BE INSPECTED AND MAINTAINED DAILY AND WITHIN THE 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF RAIN PER 24 HOUR PERIOD. MEASURES SHALL BE INSPECTED BY THE PERMIT HOLDER AND OR THE CONTRACTOR AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS OR ADJUSTMENTS SHALL BE MADE IMMEDIATELY. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30).

I. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROTECTED FROM DAMAGE AT ALL TIMES. CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT RE-VEGETATION HAS BEEN STABILIZED. ANY MEASURE THAT IS DAMAGED OR DESTROYED SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

J. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) OR SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30) SHALL BE IMMEDIATELY STABILIZED WITH AN APPROVED ESC METHOD (SEEDING & MULCHING WITH STRAW, BARK, COMPOST, OR PLASTIC COVERING, ETC.).

K. A SUPPLY OF MATERIALS NECESSARY TO MEET COMPLIANCE AND IMPLEMENT THE LDAP OR OTHER BEST MANAGEMENT EROSION PRACTICES UNDER ALL WEATHER CONDITIONS SHALL BE MAINTAINED AT ALL TIMES ON THE CONSTRUCTION SITE.

L. NO HAZARDOUS SUBSTANCES, SUCH AS PAINTS, THINNERS, FUELS, AND OTHER CHEMICALS SHALL BE RELEASED ONTO THE SITE, ADJACENT PROPERTIES, OR INTO WATER FEATURES, THE CITY'S STORM WATER SYSTEM, OR RELATED NATURAL RESOURCES.

M. STREET SWEEPING SHALL BE PERFORMED AS NEEDED OR WHEN DIRECTED BY THE CITY INSPECTOR TO ENSURE PUBLIC RIGHT-OF-WAYS ARE KEPT CLEAN AND FREE OF DEBRIS. STREET FLUSHING IS PROHIBITED.

N. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER WATER-TIGHT TRUCKS SHALL BE USED OR LOADS SHALL BE DRAINED ON SITE UNTIL DRIPPING HAS BEEN REDUCED TO NO MORE THAN ONE GALLON PER HOUR. SEDIMENT LADEN WATER WILL NOT BE ALLOWED TO ENTER THE STORM WATER SYSTEM.

O. EXTRACTED GROUND WATER FROM EXCAVATED TRENCHES SHALL BE DISPOSED OF IN A SUITABLE MANNER WITHOUT DAMAGE TO ADJACENT PROPERTY, CITY'S STORM WATER SYSTEM, WATER FEATURES, AND RELATED NATURAL RESOURCES. APPROVAL OF A DEWATERING SYSTEM DOES NOT GUARANTEE THAT IT WILL MEET COMPLIANCE OR BE ACCEPTABLE FOR USE IN ALL SITUATIONS. MODIFICATIONS TO THE DEWATERING SYSTEM WILL BE REQUIRED IF COMPLIANCE CAN NOT BE MET. AT NO TIME WILL SEDIMENT LADEN WATER BE ALLOWED TO LEAVE THE CONSTRUCTION SITE.

P. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

Q. ANY REQUIRED STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

R. ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY.

S. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO TO THREE INCHES.

T. IN PREPARATION FOR THE WET SEASON, ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE CITY BY SEPTEMBER 15. THE CITY CAN REQUIRES SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES. DISTURBED AREAS IDENTIFIED FOR SEEDING SHALL BE SEEDED PRIOR TO THE BEGINNING OF THE WET SEASON (OCTOBER 1).

No.	Revision/Issue	Date

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING UTILITY LOCATIONS PRIOR TO BEGINNING OF CONSTRUCTION. THESE PLANS MAY NOT SHOW ALL UTILITIES OR THE CORRECT LOCATIONS.

DOWL
920 Country Club Rd., Suite 100B
Eugene, OR 97401
541-683-6090
WWW.DOWL.COM

Project P21152
HIGH BANKS AND THURSTON OVERLAY

City of Springfield

PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
70925
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF

Digitally Signed Date: 2020.11.25 13:40:48-08'00'

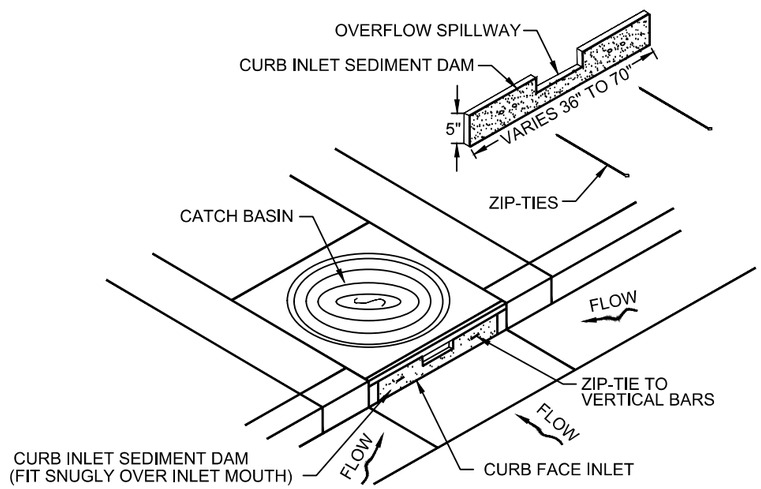
EXPIRES: 12/31/20

EROSION CONTROL

NONE	SHEET Q01 OF 90
DRAWN BY: S. WOLFER	
DESIGNED BY: D. PARK	
CHECKED BY: S. PETROFF	

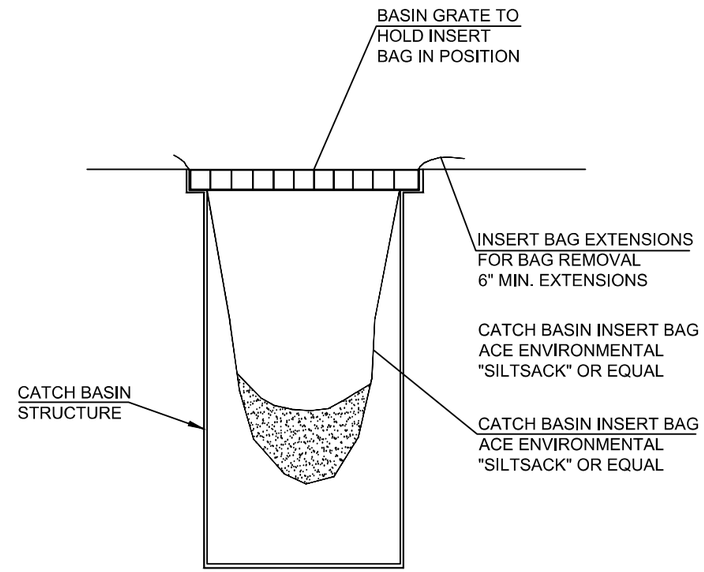
November 17, 2020

phbtxx q01.dwg



CURB INLET SEDIMENT DAM - TYPE 10

INLET PROTECTION



CATCH BASIN INSERT BAG TYPE 3

NOTES:

1. TYPE 3 - PREFABRICATED FILTER INSERTS:
   INSTALL PREFABRICATED FILTER INSERTS ACCORDING TO THE PLANS, SPECIAL PROVISIONS AND MANUFACTURER RECOMMENDATIONS.

   PREFABRICATED INSERTS WITH PROVISIONS FOR OVERFLOW ARE ALLOWED ONLY WHEN ACCOMPANIED BY ADDITIONAL BMP'S TO PREVENT THE POTENTIAL OF SEDIMENTS ENTERED PROJECT STORM SYSTEMS.

   FIELD FABRICATED INSERTS ARE NOT ALLOWED.

2. TYPE 10 - CURB INLET SEDIMENT DAM:
   FIT CURB INLET SEDIMENT DAM SNUGLY INTO INLET MOUTH. CURB INLET SEDIMENT DAM IS REQUIRED FOR USE WITH INLET INSERT WHERE AT-GRADE INLE GRATE AND CURB ARE COMBINED AT A CATCH BASIN.

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SPRINGFIELD OREGON

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70925
Digitally Signed Date: 2020.11.25 13:41:29-08'00'
OREGON
JUNE 14, 2007
STANLEY ANGELOFF PETROFF
EXPIRES: 12/31/20

EROSION & SEDIMENT CONTROL DETAILS

NONE	SHEET Q02 OF 90
DRAWN BY: S. WOLFER	
DESIGNED BY: D. PARK	
CHECKED BY: S. PETROFF	

LEGEND

Y	INSTALL 4" YELLOW LINE.
YB	INSTALL 4" YELLOW BROKEN LINE.
W	INSTALL 4" WHITE LINE.
W-2	INSTALL 8" WHITE LINE.
W-2 / R-20L	INSTALL 8" WHITE CHANNELIZING LINE POSITIONING GUIDE.
W-2 / R-20R	INSTALL 8" WHITE CHANNELIZING LINE POSITIONING GUIDE.
D / R-20	INSTALL DOUBLE NO-PASS POSITIONING GUIDE.
WD	INSTALL 4" WHITE DOTTED LINE.
WD-2	INSTALL 8" WHITE DOTTED LINE.
ND	INSTALL NARROW DOUBLE NO-PASS.
TWL	INSTALL TWO-WAY LEFT TURN.
TM	INSTALL YELLOW TRANSVERSE MEDIAN BARS AT 20' SPACING.
TS	INSTALL WHITE TRANSVERSE SHOULDER BARS AT 20' SPACING.
S	INSTALL 12" WHITE STOP BAR.
S-2	INSTALL 24" WHITE STOP BAR.
CW	INSTALL STANDARD CROSSWALK TWO 1' WHITE BARS.
CW-SC	INSTALL STAGGERED CONTINENTAL CROSSWALK.
LA	INSTALL LEFT TURN ARROW (WHITE).
RA	INSTALL RIGHT TURN ARROW (WHITE).
LSA	INSTALL LEFT TURN STRAIGHT ARROW (WHITE).
BS	INSTALL BIKE LANE STANDARD STENCIL (WHITE).
GRN	INSTALL GREEN BIKE LANE PAVEMENT MARKING.
BLE-G	INSTALL GREEN SUPPLEMENTAL BICYCLE LANE 2" GREEN/WHITE BARS.
SCH	INSTALL "SCHOOL" (WHITE).
XNG	INSTALL "X-ING" (WHITE).
EX W	RETAIN AND PROTECT EXISTING 4" WHITE LINE.
EX Y	RETAIN AND PROTECT EXISTING 4" YELLOW LINE.
EX S	RETAIN AND PROTECT EXISTING STOP BAR.
EX CW	RETAIN AND PROTECT EXISTING STANDARD CROSSWALK TWO 1' WHITE BARS.
EX LSA	RETAIN AND PROTECT EXISTING LEFT TURN STRAIGHT ARROW (WHITE).
EX BS	RETAIN AND PROTECT EXISTING BIKE LANE STANDARD STENCIL (WHITE).
EX RA	RETAIN AND PROTECT EXISTING RIGHT TURN ARROW (WHITE).
EX W-2	RETAIN AND PROTECT EXISTING 8" WHITE DOTTED LINE.
EX D	RETAIN AND PROTECT EXISTING DOUBLE NO-PASS 4" YELLOW LINES.
N / M	INSTALL NEW SIGN (N) ON NEW SIGN SUPPORT.
N	INSTALL NEW SIGN (N).
RXN	REMOVE EXISTING SIGN (N).
RXN / M	REMOVE EXISTING SIGN (N) AND (M) SIGN SUPPORT.
EX / CLN	CLEAN FACE OF EXISTING SIGN WITH SOAP AND WATER. SEE SPECIAL PROVISIONS.
EXN	MAINTAIN AND PROTECT EXISTING SIGN (N) AND SUPPORT.

GENERAL NOTES

1. ALL CROSSWALKS AND BIKE LANE STENCILS SHALL BE TYPE "B-HS" THERMOPLASTIC. LONGITUDINAL PAVEMENT MARKINGS SHALL BE PAINT UNLESS OTHERWISE NOTED. ALL OTHER PAVEMENT LEGENDS AND BARS SHALL BE TYPE "B" THERMOPLASTIC.
2. ALIGN CROSSWALKS WITH SIDEWALK RAMP LOCATIONS OR 5 FT BACK OF EXTENDED EDGE LINE, EDGE OF PAVEMENT, OR CURB FACE.
3. DIMENSIONS SHOWN ARE APPROXIMATE. ALL PAVEMENT MARKINGS SHALL BE APPROVED IN THE FIELD BY THE ENGINEER.
4. REMOVE ALL EXISTING STRIPING THAT CONFLICTS WITH THIS PLAN. EXISTING STRIPING SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
5. THE LOCATIONS OF SIGN INSTALLATIONS SHOWN ARE APPROXIMATE WITH EXACT LOCATIONS TO BE DETERMINED IN THE FIELD.
6. EXISTING SIGNS NOT SHOWN ARE TO REMAIN IN PLACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7. EXISTING STRIPING ON SIDE STREETS SHALL BE MAINTAINED AND PROTECTED, UNLESS OTHERWISE SPECIFIED.
8. ACCOMPANIED BY OREGON STD. DRAWINGS TM200, TM201, TM240, TM500, TM521, TM530, TM531, TM539, TM561, AND CITY OF SPRINGFIELD STD. DRAWINGS 5-18, AND 5-21.

N = SIGN NUMBER
M = MATERIAL:
P = ROUND PIPE SUPPORT
W = WOOD POST
SB = PERFORATED SQUARE BREAKAWAY STEEL
CW = CROSSWALK CLOSURE SUPPORT

No.	Revision/Issue	Date

NOTE:

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DO NOT
SCALE OR LOCATE UTILITY LINES OR MAINS FROM THESE DRAWINGS
CALL FOR UTILITY LOCATES
811 or (1-800-332-2344)

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DKS
720 SW Washington St, Suite 500
Portland, Oregon 97205
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Project 0092-0030
HIGH BANKS AND THURSTON OVERLAY

City of Springfield
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INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER 6339
Celena R Stone
Digitally signed by Celena R Stone
Date: 2020.11.25 15:01:19-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

STRIPING LEGEND

NO SCALE		SHEET SS1 OF 90
DRAWN BY:	MRZ	
DESIGNED BY:	BJM	
CHECKED BY:	CRS	

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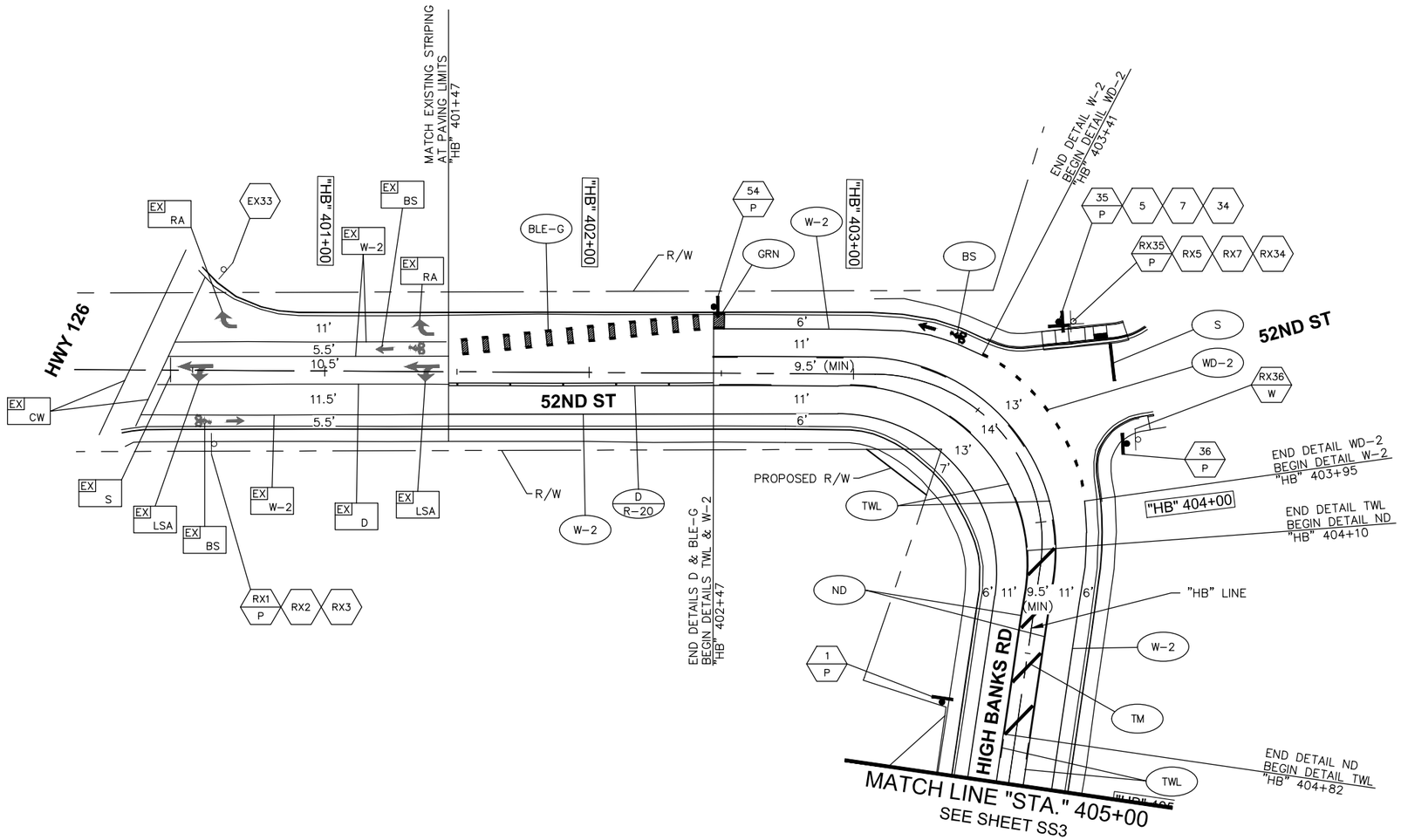

NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS

0 25 50 100

SCALE: 1" = 50'

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No.	Revision/Issue	Date

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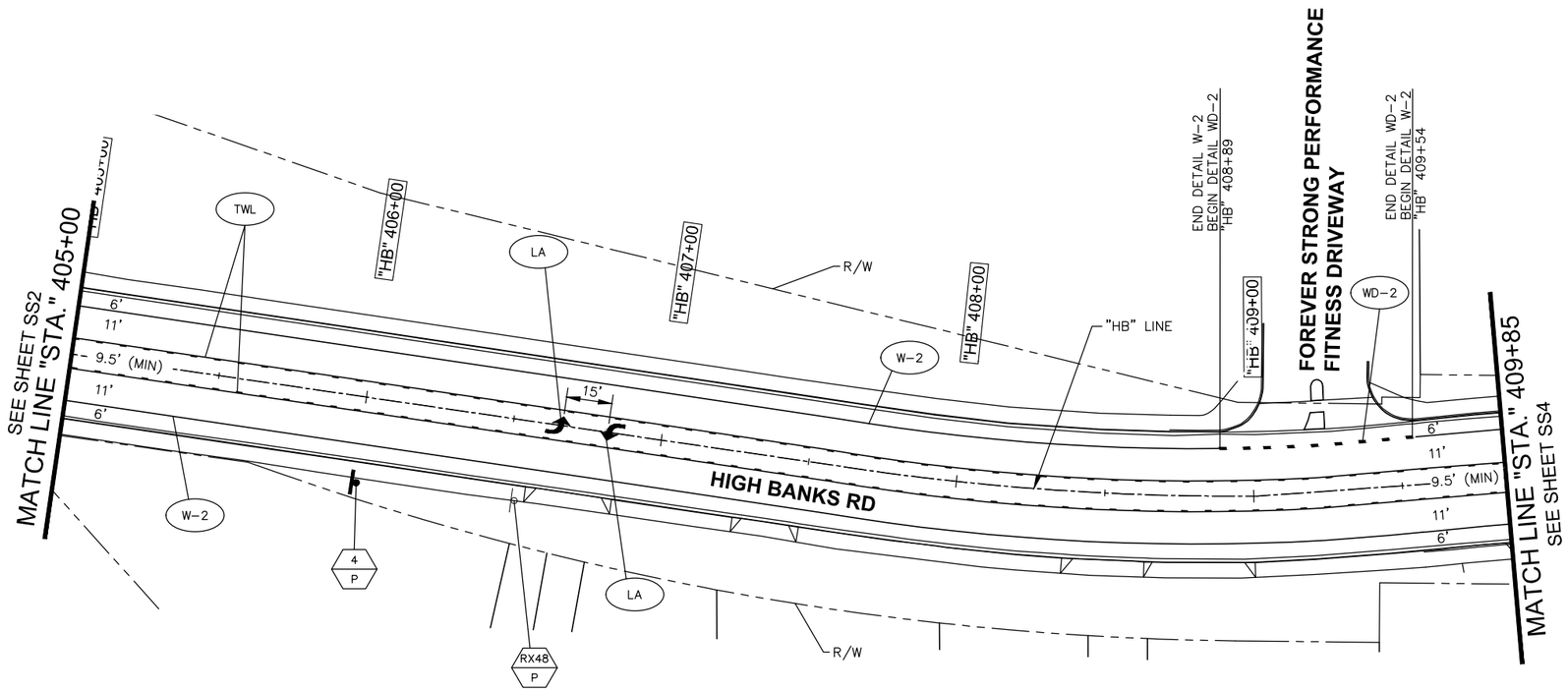
Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 15:02:17-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

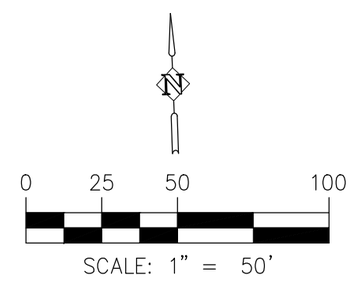
SCALE: 1' = 50'	SHEET SS2 OF 90
DRAWN BY: MRZ	
DESIGNED BY: BJM	
CHECKED BY: CRS	



NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS



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SPRINGFIELD OREGON

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Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 15:03:08-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	*MRZ*
DESIGNED BY:	*BJM*
CHECKED BY:	*CRS*

SHEET SS3 OF 90

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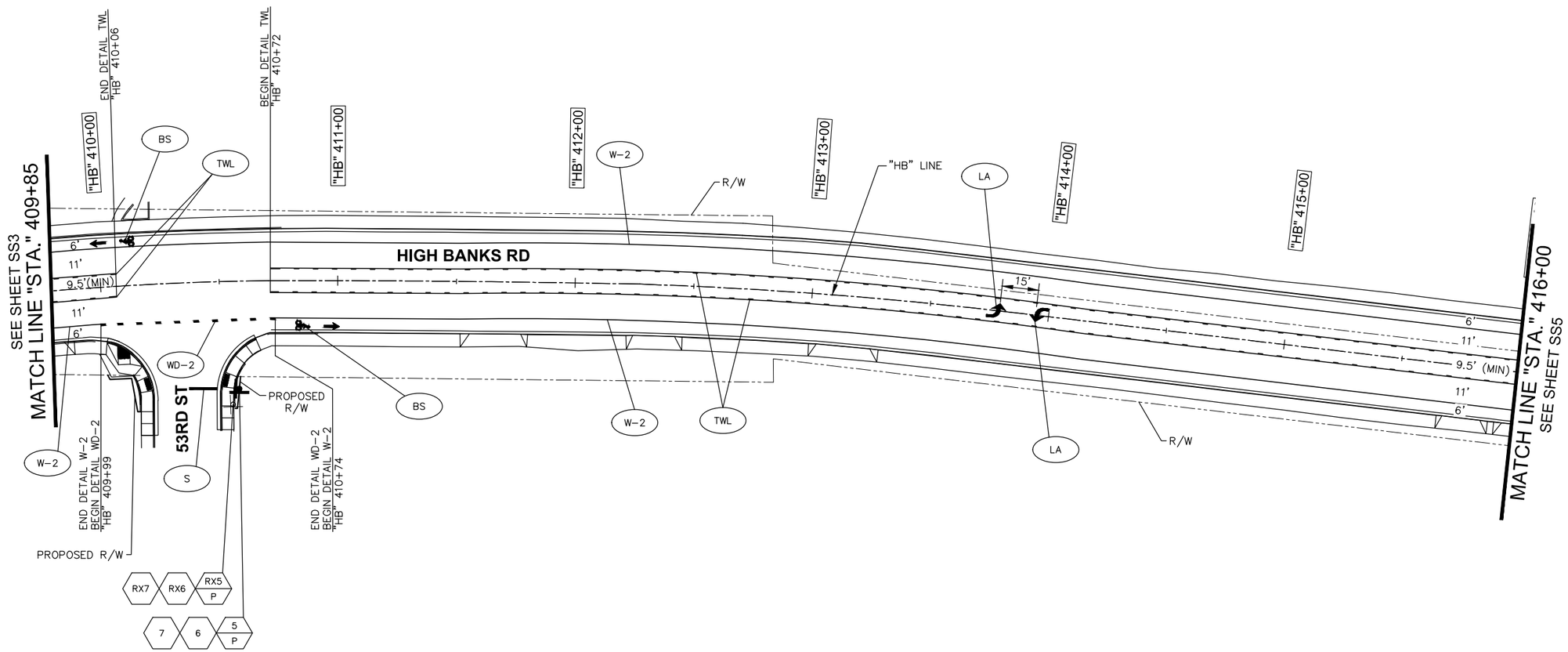

NOTE:
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NOTE:
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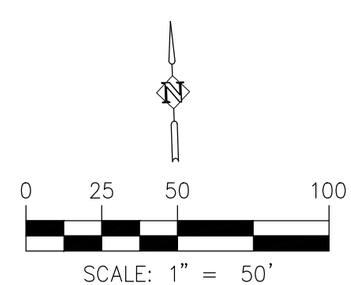

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No.	Revision/Issue	Date

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OREGON
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CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	MRZ
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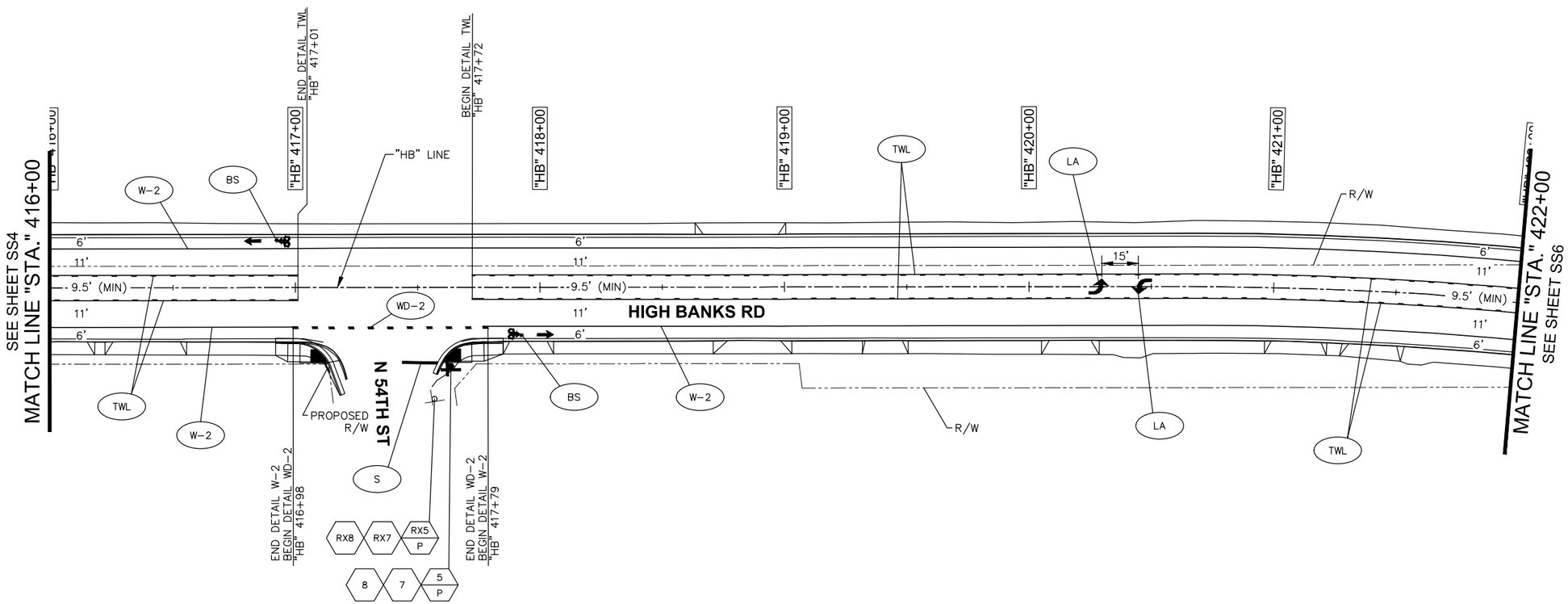
SHEET SS4 OF 90



NOTE:
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NOTE:
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NOTE:
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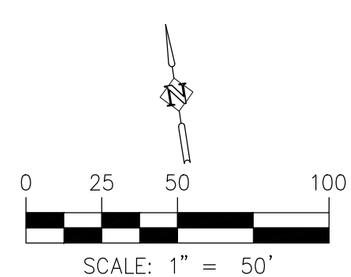

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OREGON
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CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS5 OF 90

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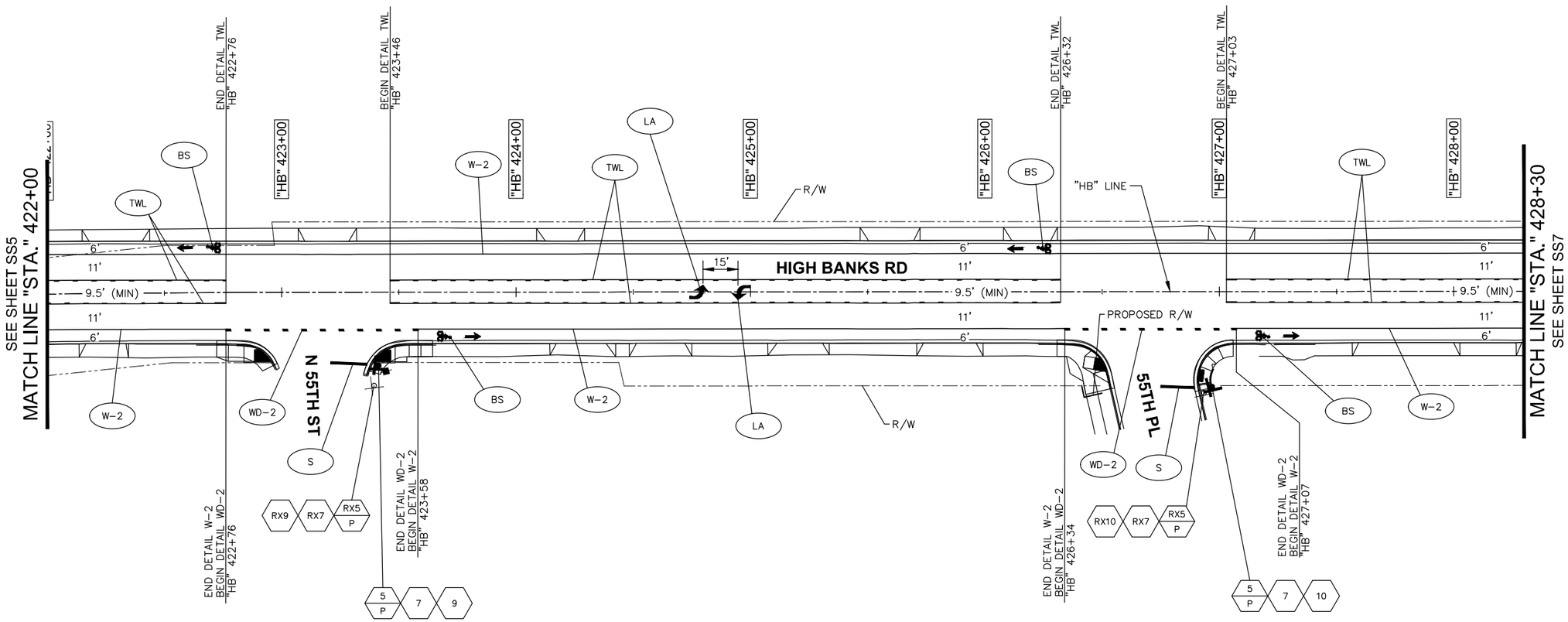

NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
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OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'	SHEET SS6 OF 90
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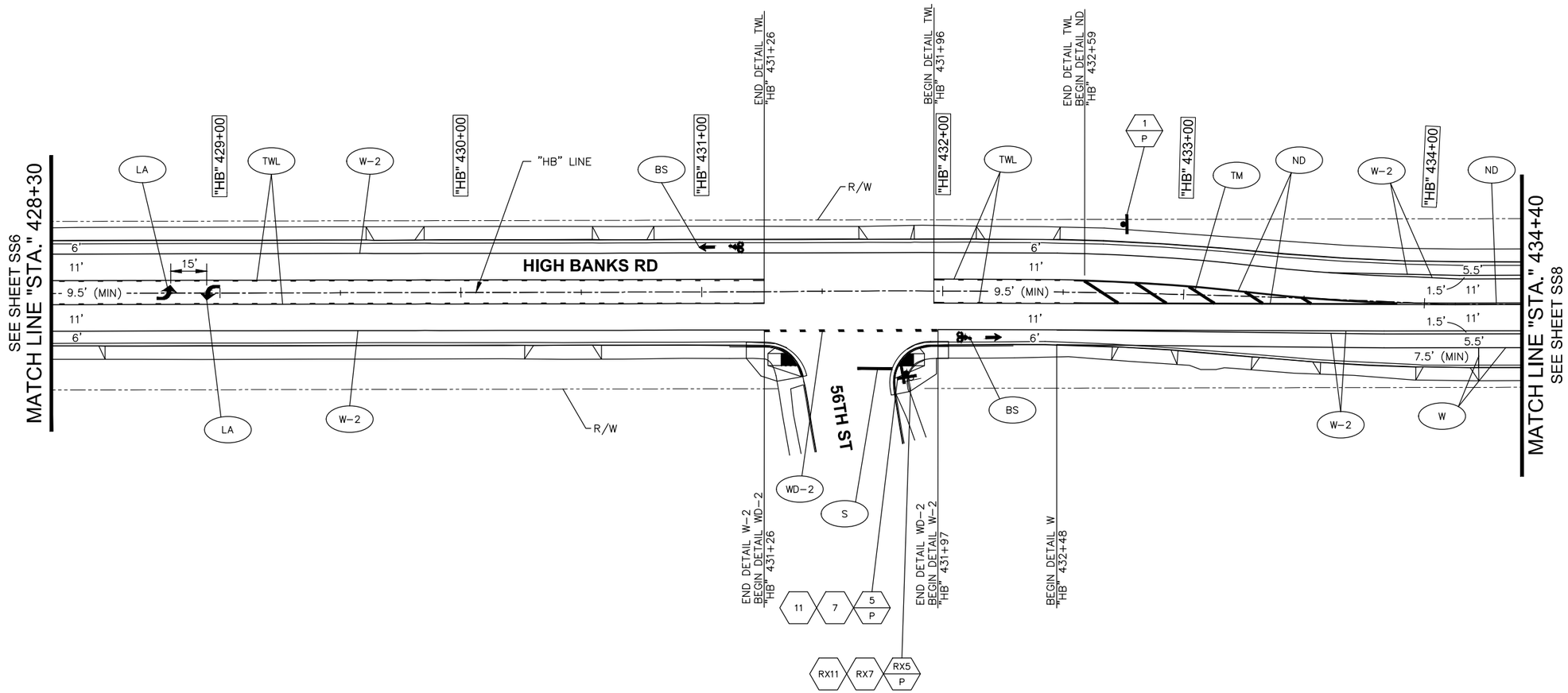

NOTE:
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NOTE:
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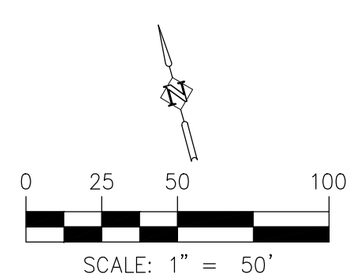
NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS



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No.	Revision/Issue	Date

NOTE:

UTILITY LOCATIONS ARE APPROXIMATE
DO NOT
SCALE OR LOCATE UTILITY LINES OR MAINS FROM THESE DRAWINGS
CALL FOR UTILITY LOCATES
811 or (1-800-332-2344)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING UTILITY LOCATIONS PRIOR TO BEGINNING OF CONSTRUCTION.
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720 SW Washington St, Suite 500
Portland, Oregon 97205
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Project 0092-0030
HIGH BANKS AND THURSTON OVERLAY

City of Springfield

PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

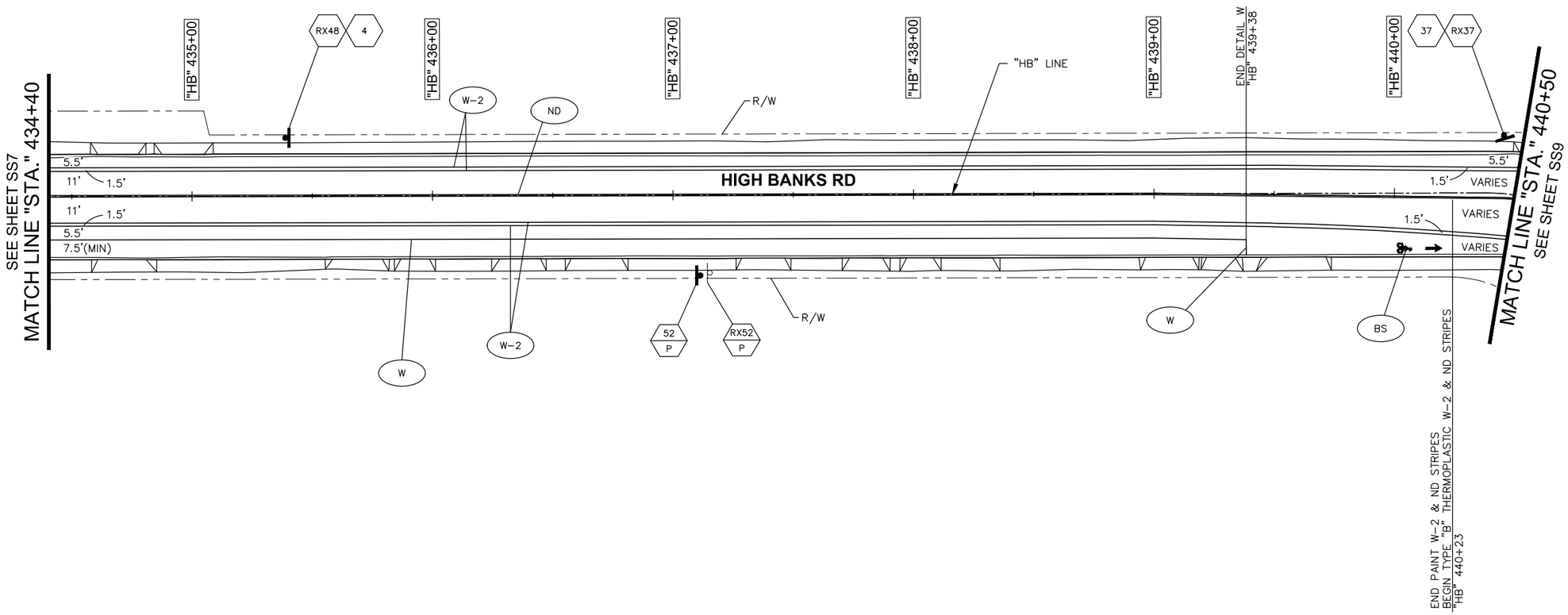
REGISTERED PROFESSIONAL ENGINEER
6339
Celena R Stone
Digitally signed by Celena R Stone
Date: 2020.11.25 15:10:02-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

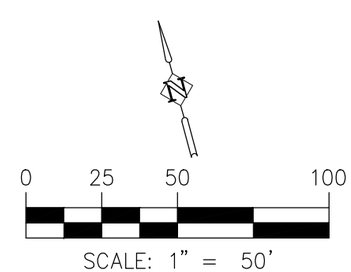
SHEET SS7 OF 90



NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS



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No.	Revision/Issue	Date

NOTE:

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INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

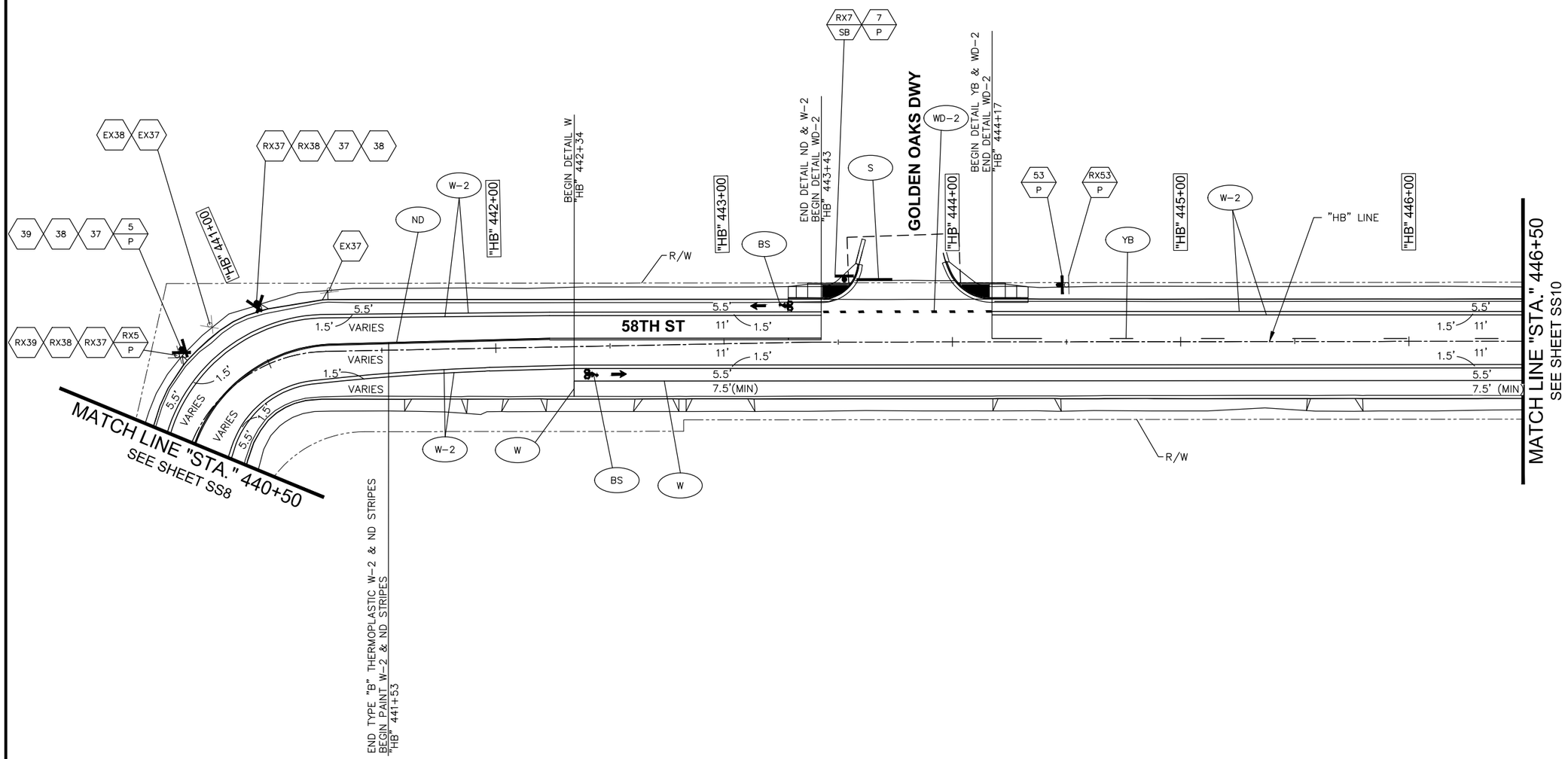
REGISTERED PROFESSIONAL ENGINEER
6339
Celena R Stone
Digitally signed by Celena R Stone
Date: 2020.11.25 15:11:38-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	*MRZ*
DESIGNED BY:	*BJM*
CHECKED BY:	*CRS*

SHEET SS8 OF 90



NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS

0 25 50 100
SCALE: 1" = 50'

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No.	Revision/Issue	Date

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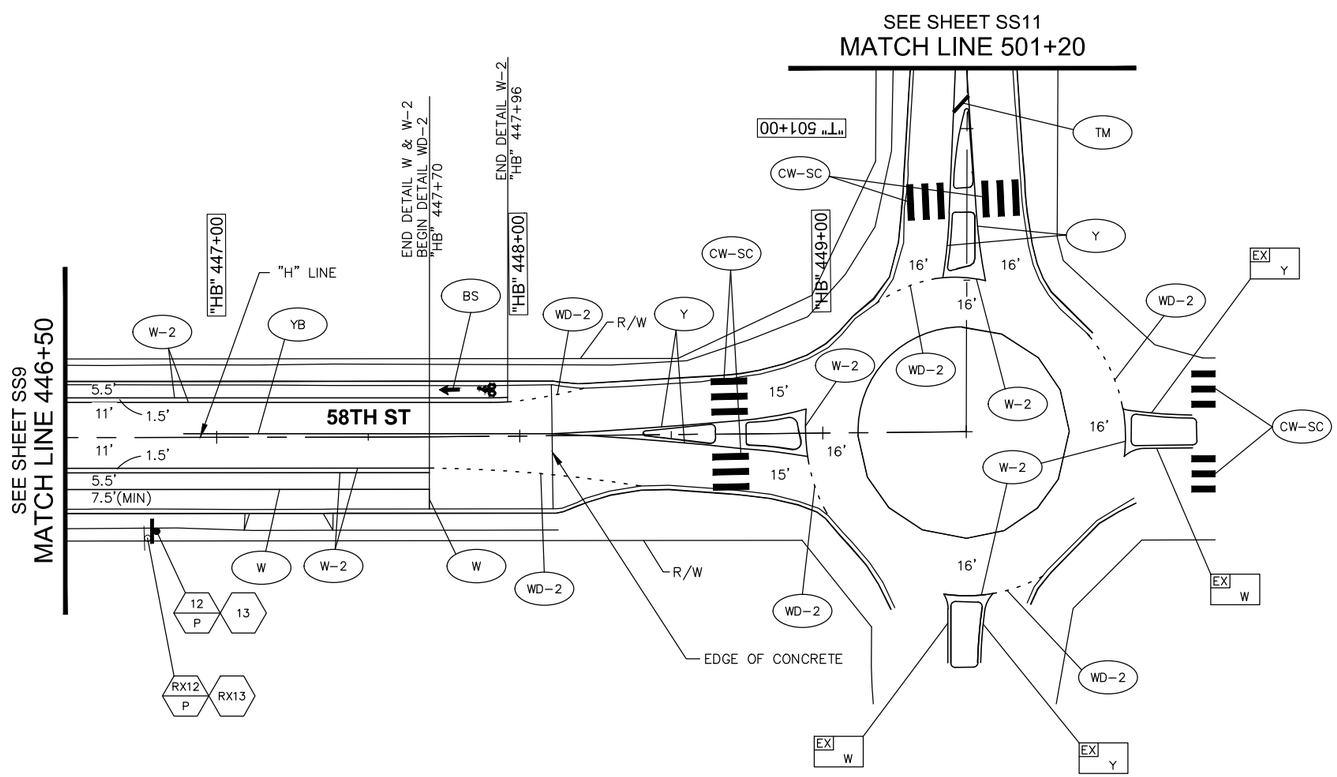
PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
6339
Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 15:24:23-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'	SHEET SS9 OF 90
DRAWN BY: MRZ	
DESIGNED BY: BJM	
CHECKED BY: CRS	



NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS

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SCALE: 1" = 50'

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No.	Revision/Issue	Date

NOTE:

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PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET www.springfield-or.gov
SPRINGFIELD OREGON

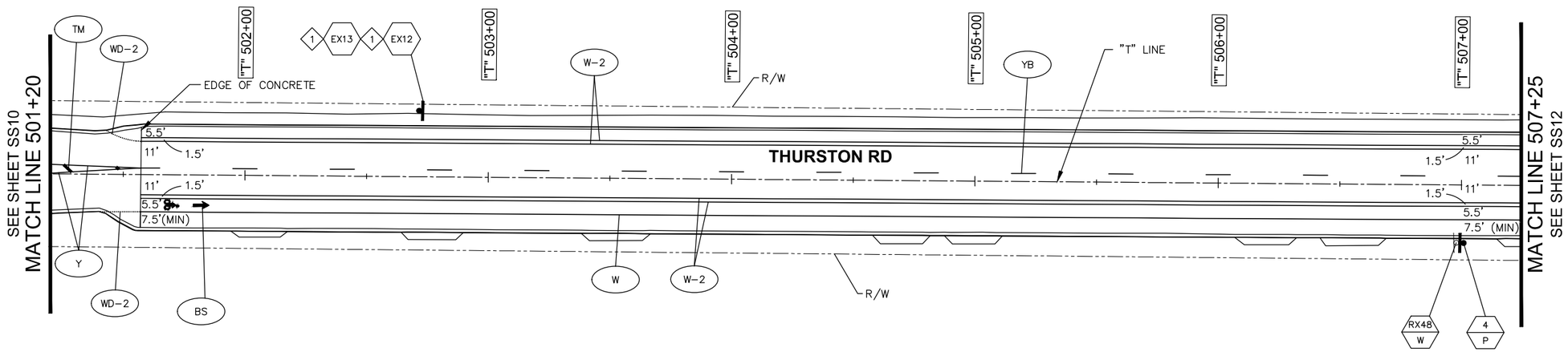
REGISTERED PROFESSIONAL ENGINEER
6339
Celena R Stone
Digitally signed by Celena R Stone
Date: 2020.11.25 15:26:35-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS10 OF 90



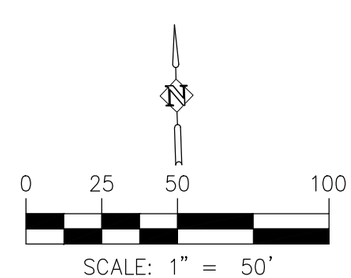
CONSTRUCTION NOTES

1. CLEAN EXISTING SIGN WITH SOAP AND WATER. SEE SPECIAL PROVISIONS.

NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS



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No.	Revision/Issue	Date

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SPRINGFIELD OREGON

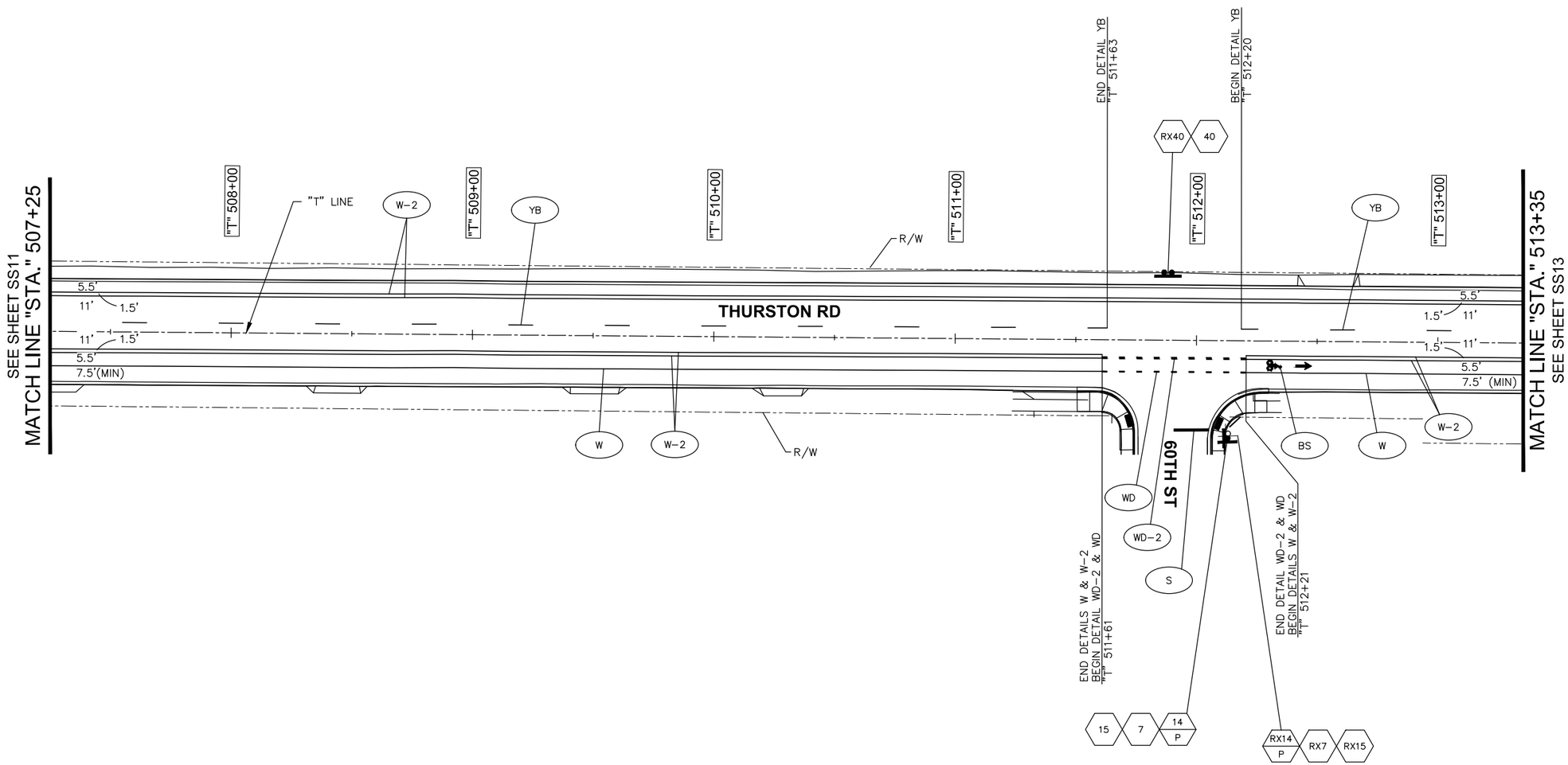
REGISTERED PROFESSIONAL ENGINEER
6339
Celena R Stone
Digitally signed by Celena R Stone
Date: 2020.11.25 15:27:26-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS11 OF 90



NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS

No.	Revision/Issue	Date

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SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER 6339
Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 15:28:07-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS12 OF 90

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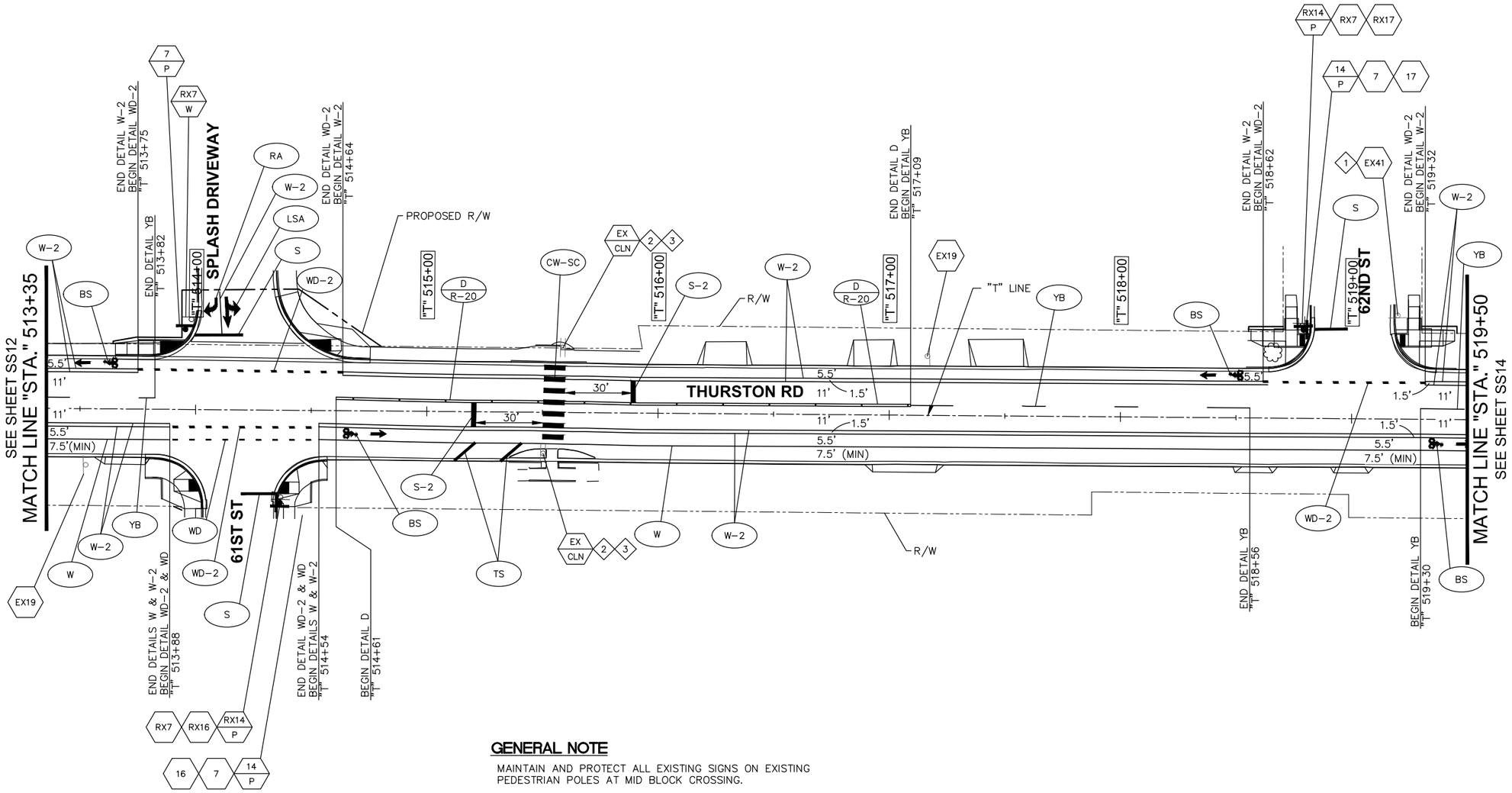

GENERAL NOTE

MAINTAIN AND PROTECT ALL EXISTING SIGNS ON EXISTING PEDESTRIAN POLES AT MID BLOCK CROSSING.

CONSTRUCTION NOTES

1. CLEAN EXISTING SIGN WITH SOAP AND WATER. SEE SPECIAL PROVISIONS.
2. CLEAN EXISTING PEDESTRIAN CROSSING WARNING SIGNS WITH SOAP AND WATER. SEE SPECIAL PROVISIONS.
3. REPLACE PEDESTRIAN PUSH BUTTON SIGN. SEE OREGON STANDARD DRAWING TM467.

NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS

N

0 25 50 100

SCALE: 1" = 50'

No.	Revision/Issue	Date

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REGISTERED PROFESSIONAL ENGINEER 6339
Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 15:29:15-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS13 OF 90

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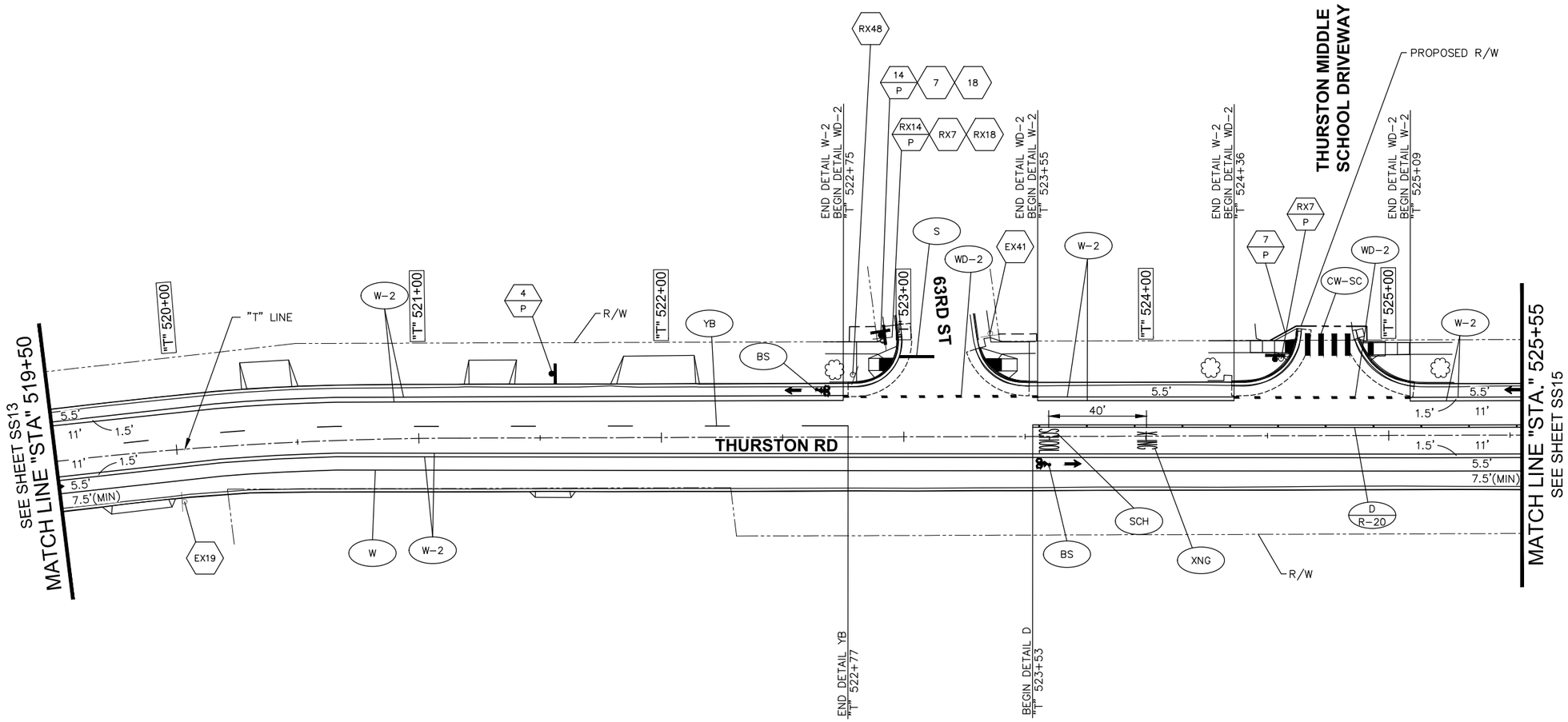
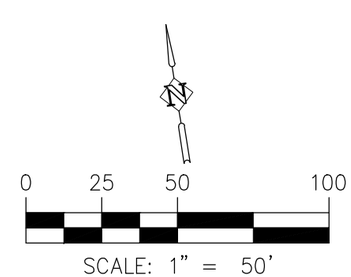


NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS



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No.	Revision/Issue	Date

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INTERNET www.springfield-or.gov
SPRINGFIELD OREGON

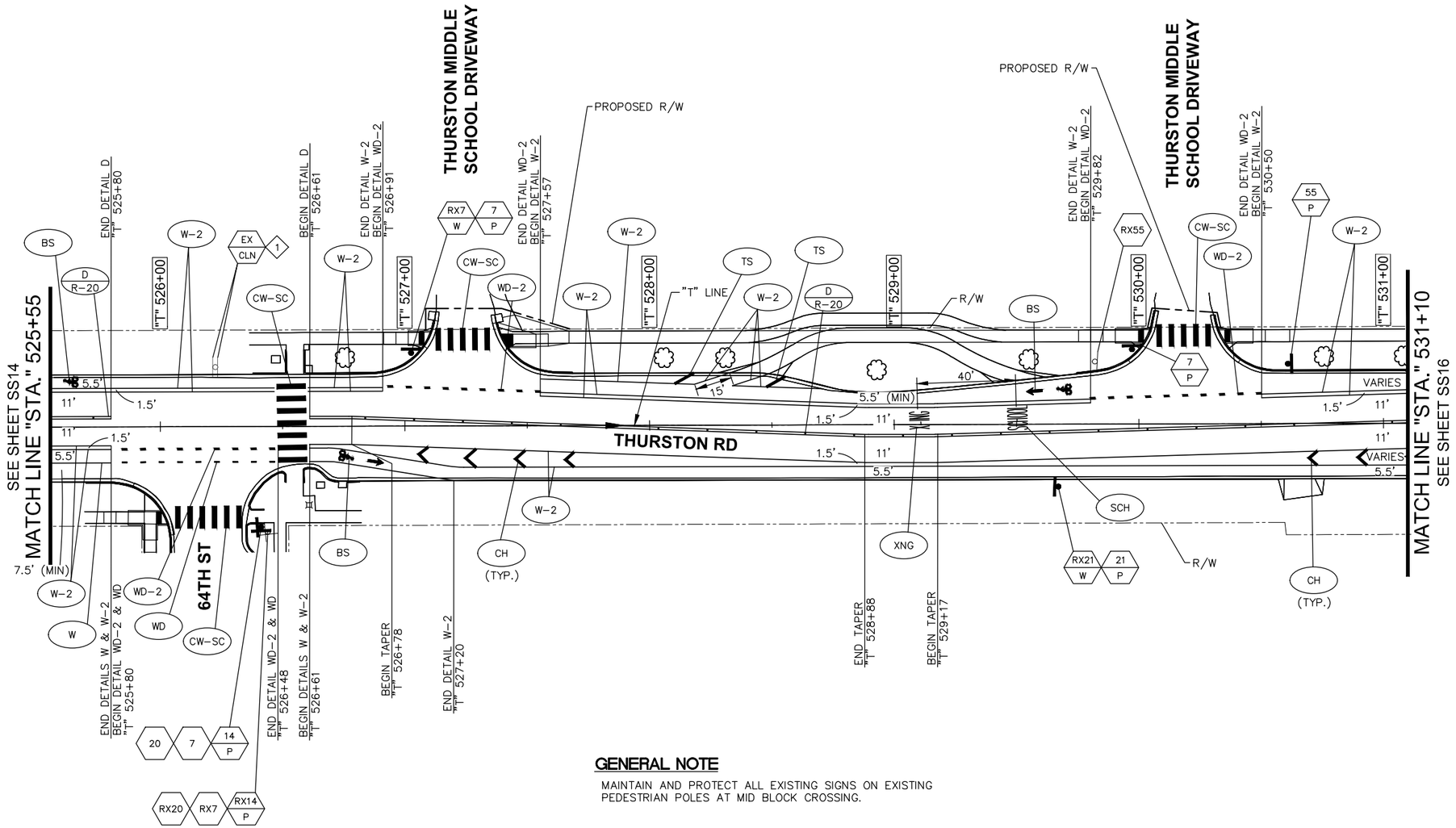
REGISTERED PROFESSIONAL ENGINEER
6339
Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 15:30:17-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	*MRZ*
DESIGNED BY:	*BJM*
CHECKED BY:	*CRS*

SHEET SS14 OF 90



GENERAL NOTE

MAINTAIN AND PROTECT ALL EXISTING SIGNS ON EXISTING PEDESTRIAN POLES AT MID BLOCK CROSSING.

CONSTRUCTION NOTES

1. CLEAN EXISTING "WILLAMALANE PARK & RECREATION DISTRICT THURSTON PARK" SIGN WITH SOAP AND WATER. SEE SPECIAL PROVISIONS.

NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS

0 25 50 100
SCALE: 1" = 50'

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No.	Revision/Issue	Date

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INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

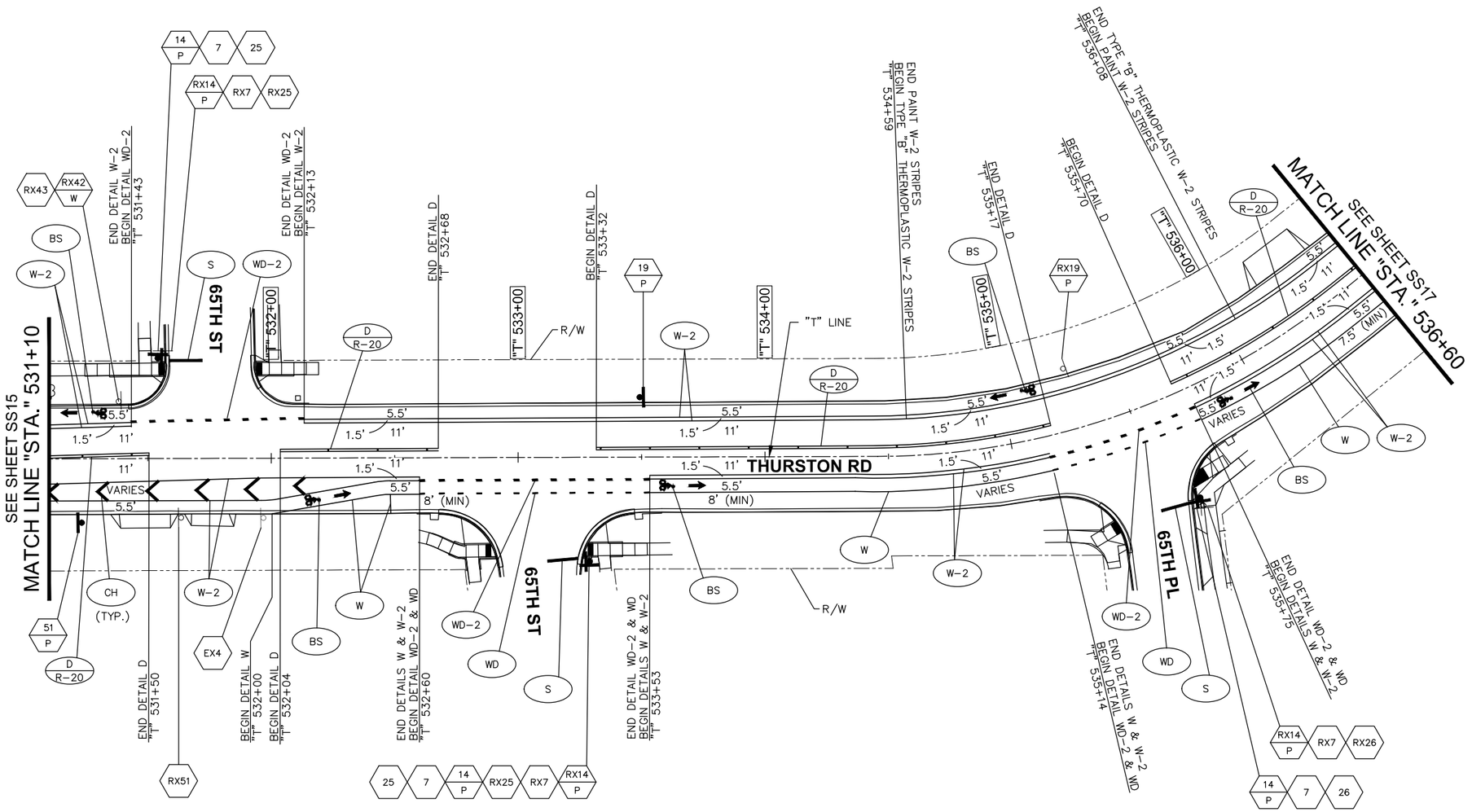
REGISTERED PROFESSIONAL ENGINEER 6339
Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 15:31:10-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

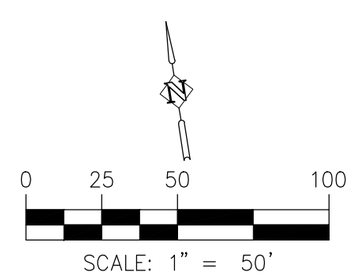
SHEET SS15 OF 90



NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS



No.	Revision/Issue	Date

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INTERNET www.springfield-or.gov

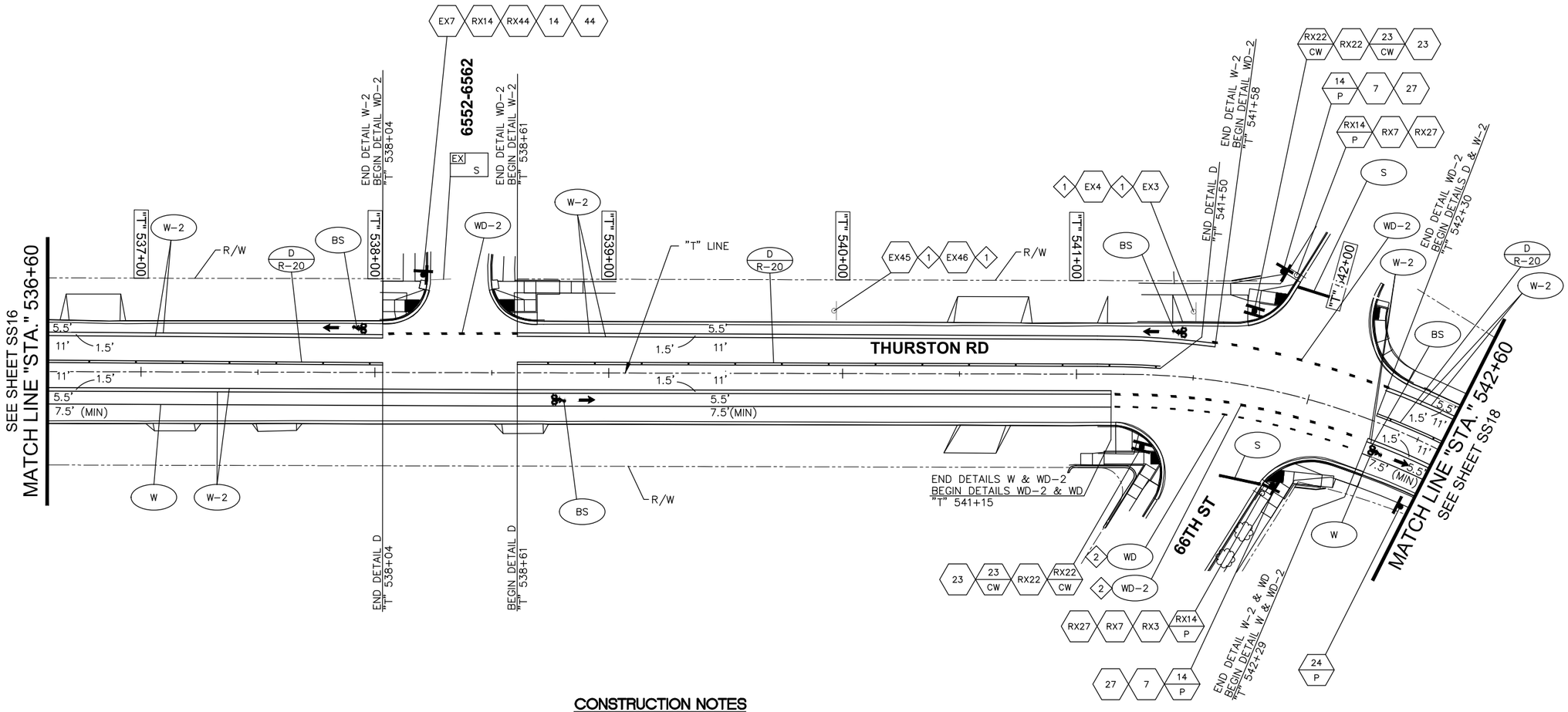
SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
6339
Celena R Stone
Digitally signed by Celena R Stone
Date: 2020.11.25 15:48:00-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'	SHEET SS16 OF 90
DRAWN BY: MRZ	
DESIGNED BY: BJM	
CHECKED BY: CRS	

C:\obec\pwobec01\d0376494\SS16.dwg



CONSTRUCTION NOTES

1. CLEAN EXISTING SIGN WITH SOAP AND WATER. SEE SPECIAL PROVISIONS.
2. PAVEMENT MARKING SHALL BE TYPE "B" THERMOPLASTIC MATERIAL.

NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS

0 25 50 100
SCALE: 1" = 50'

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No.	Revision/Issue	Date

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SPRINGFIELD OREGON

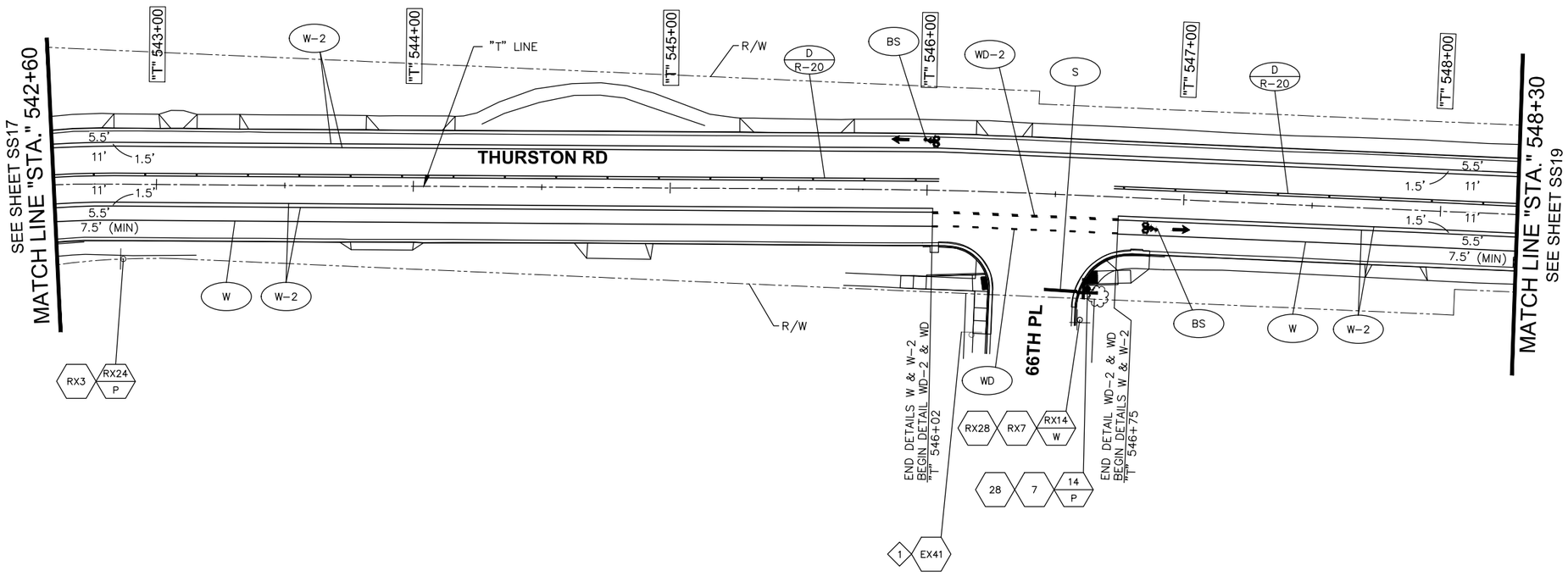
REGISTERED PROFESSIONAL ENGINEER
6339
Celena R Stone
Digitally signed by Celena R Stone
Date: 2020.11.25 15:48:53-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS17 OF 90



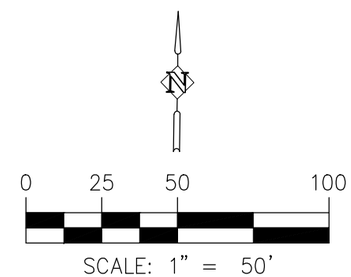
CONSTRUCTION NOTES

1. CLEAN EXISTING SIGN WITH SOAP AND WATER. SEE SPECIAL PROVISIONS.

NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS



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No.	Revision/Issue	Date

NOTE:

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DKS
720 SW Washington St, Suite 500
Portland, Oregon 97205
www.dksassociates.com

Project 0092-0030
HIGH BANKS AND THURSTON OVERLAY

City of Springfield
PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

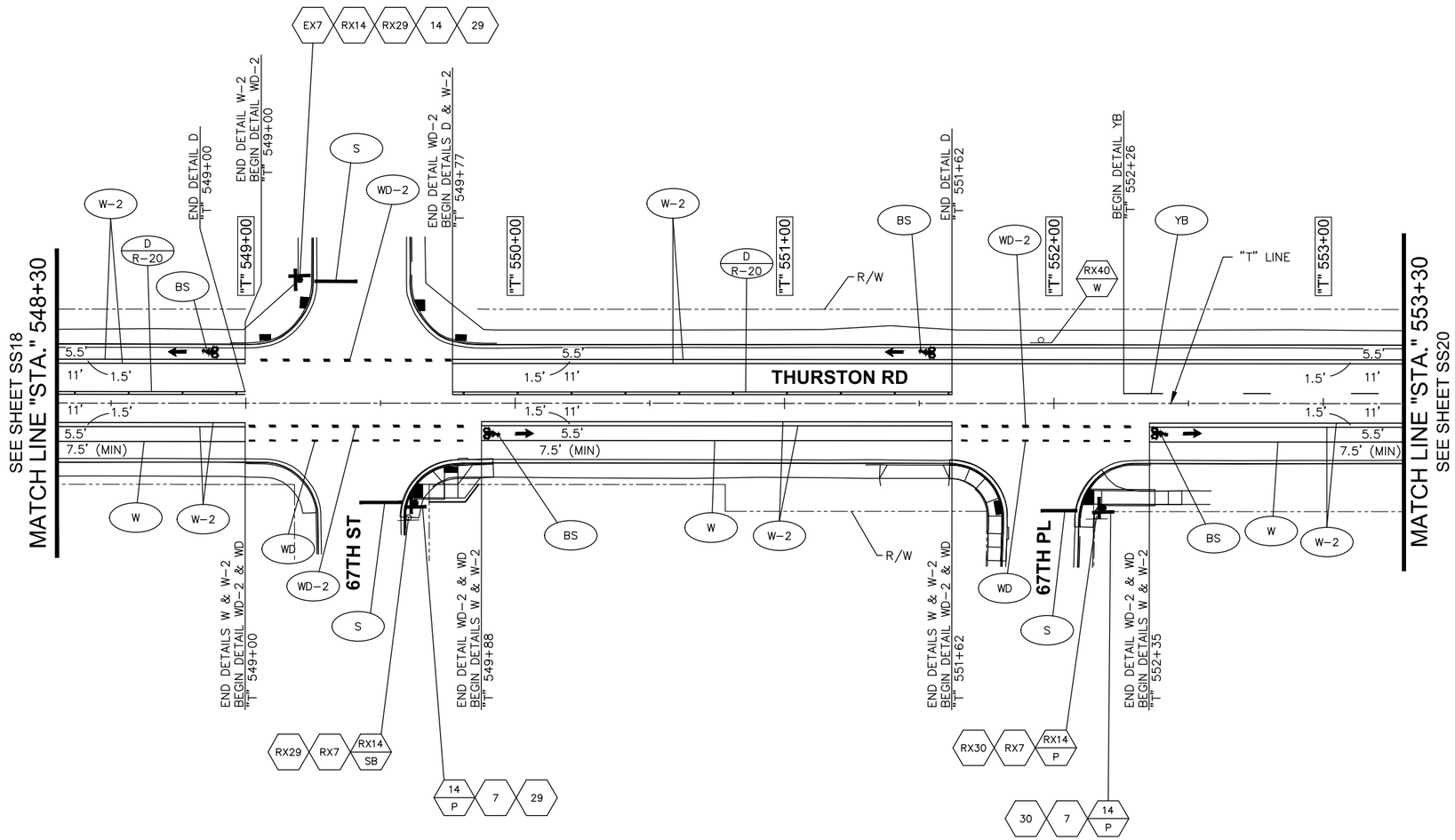
REGISTERED PROFESSIONAL ENGINEER
6339
Celena R Stone
Digitally signed by Celena R Stone
Date: 2020.11.25 15:49:44-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

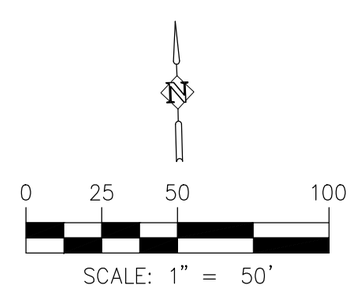
SHEET SS18 OF 90



NOTE:
SEE SHEET SS1 FOR LEGEND

NOTE:
SEE SHEETS SS21 AND SS22 FOR STRIPING DETAILS

NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS



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No.	Revision/Issue	Date

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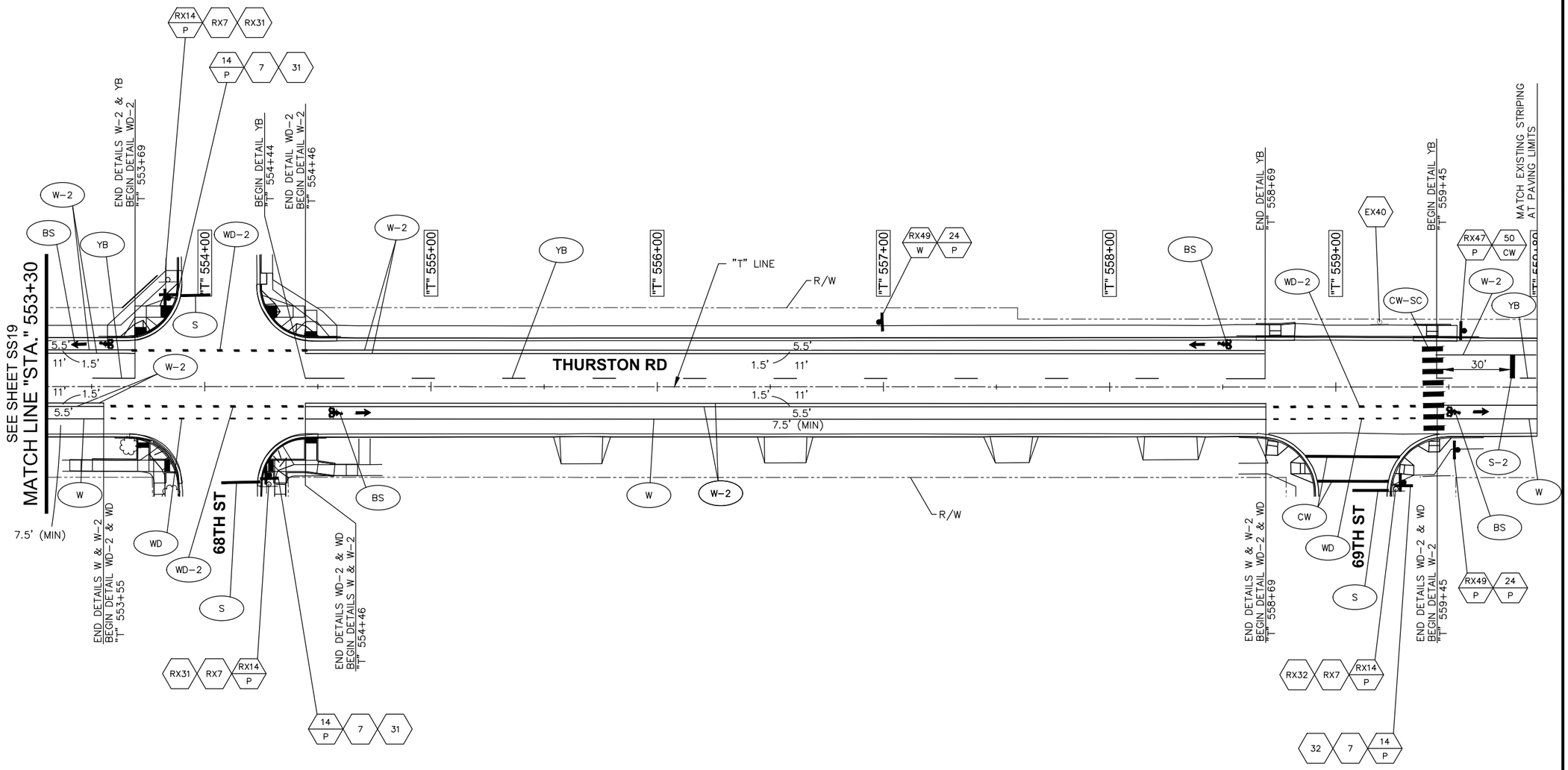
Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 15:52:52-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING & STRIPING PLAN

SCALE: 1' = 50'

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS19 OF 90



NOTE:
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NOTE:
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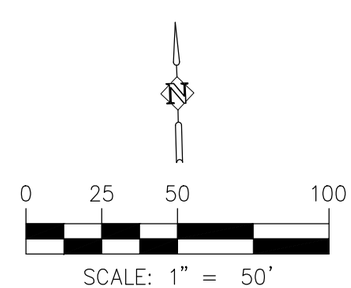
NOTE:
SEE SHEETS SS23 AND SS24 FOR SIGNING DETAILS



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No.	Revision/Issue	Date

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OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

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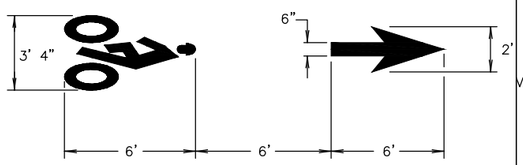
SCALE: 1' = 50'

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS20 OF 90

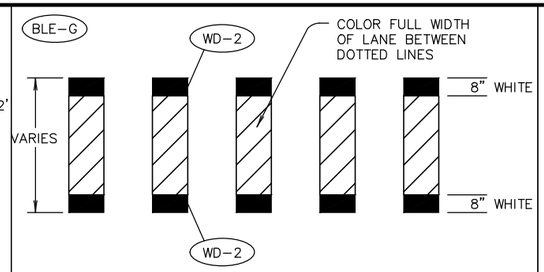
BS



BIKE LANE STANDARD STENCIL (WHITE)

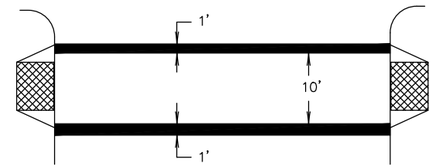
CENTER MARKING WITHIN LANE WIDTH FOR PROPORTION DETAILS, SEE CURRENT VERSION OF STANDARD HIGHWAY SIGNS

BLE-G



GREEN SUPPLEMENTAL BICYCLE LANE DOTTED LINE EXTENSION (GREEN)

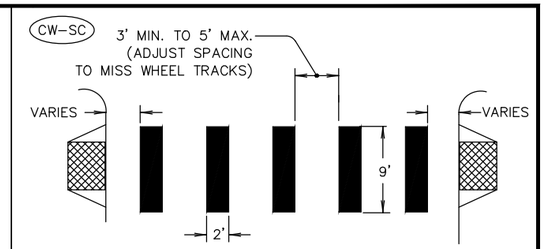
CW



STANDARD CROSSWALK TWO 1' WHITE BARS

INSTALL PER STANDARD DRAWING TM530

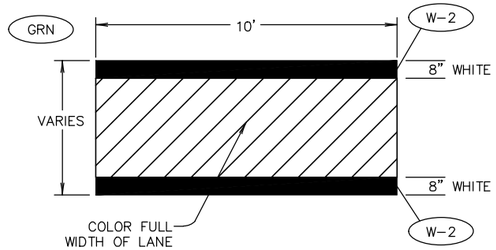
CW-SC



STAGGERED CONTINENTAL CROSSWALK 2' WHITE BARS

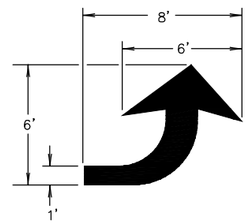
INSTALL PER STANDARD DRAWING TM530

GRN



GREEN SUPPLEMENTAL BICYCLE LANE SOLID LINE (GREEN)

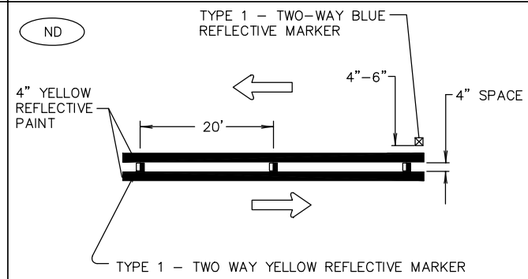
LA



LEFT TURN ARROW (WHITE)

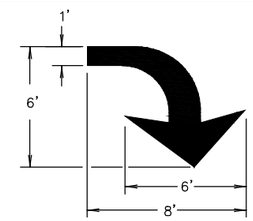
FOR ARROW PROPORTION DETAILS, SEE CURRENT VERSION OF STANDARD HIGHWAY SIGNS

ND



TWO WAY DOUBLE SOLID

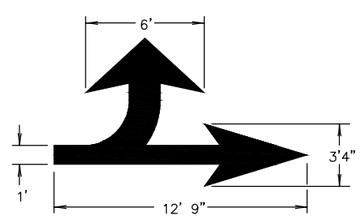
RA



RIGHT TURN ARROW (WHITE)

FOR ARROW PROPORTION DETAILS, SEE CURRENT VERSION OF STANDARD HIGHWAY SIGNS

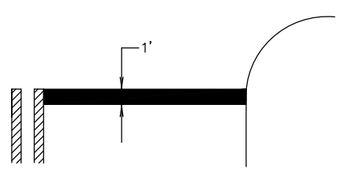
LSA



LEFT TURN STRAIGHT ARROW (WHITE)

FOR ARROW PROPORTION DETAILS, SEE CURRENT VERSION OF STANDARD HIGHWAY SIGNS

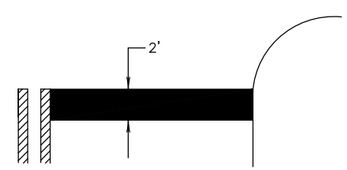
S



STOP BAR 1' WHITE BAR

INSTALL PER STANDARD DRAWING TM530

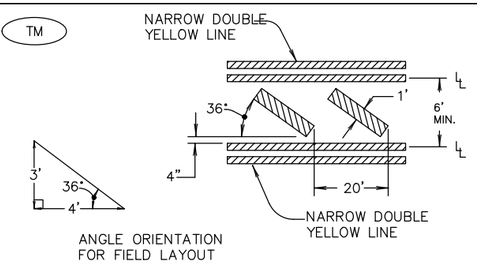
S-2



STOP BAR 2' WHITE BAR

INSTALL PER STANDARD DRAWING TM530

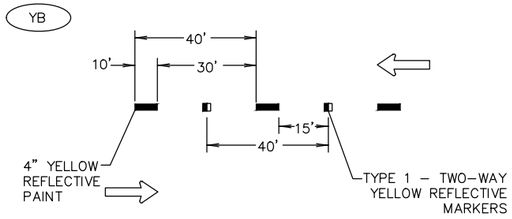
TM



ANGLE ORIENTATION FOR FIELD LAYOUT

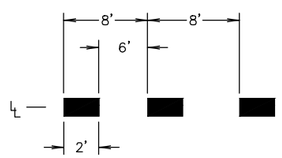
TRANSVERSE MEDIAN BARS
1' YELLOW BARS AT 20' SPACING

YB



TWO-WAY SKIP STRIPE

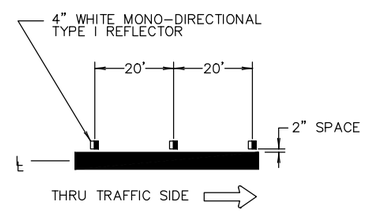
WD-2



8" WHITE DOTTED LINE

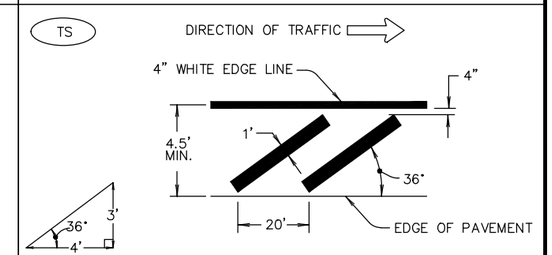
FOR LANE EXTENSIONS AND BIKE LANE EXTENSIONS

W-2
R-20L



CHANNELIZING LINE POSITIONING GUIDE
REFLECTORS WITH 8" WHITE LINE

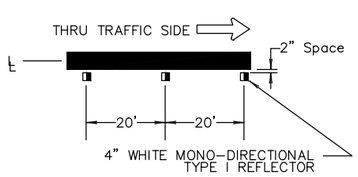
TS



ANGLE ORIENTATION FOR FIELD LAYOUT

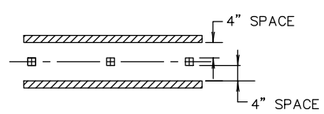
TRANSVERSE SHOULDER BARS
1' WHITE BARS AT 20' SPACING

W-2
R-20R



CHANNELIZING LANE LINE POSITIONING GUIDE
REFLECTORS WITH 8" WHITE LINE

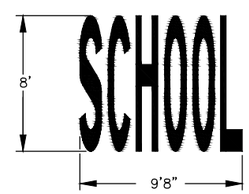
D
R-20



DOUBLE NO-PASS POSITIONING GUIDE

REFLECTORS TWO 4" YELLOW LINES

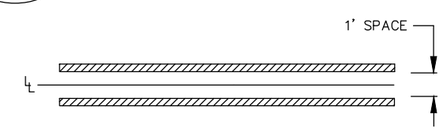
SCH



SCHOOL (WHITE)

CENTER MARKING WITHIN LANE WIDTH
FOR LETTER PROPORTION DETAILS, SEE CURRENT VERSION OF STANDARD HIGHWAY SIGNS

D



DOUBLE NO-PASS
TWO 4" YELLOW LINES

No.	Revision/Issue	Date

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OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

STRIPING DETAILS

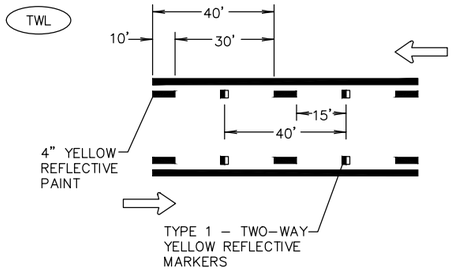
NO SCALE		SHEET SS21 OF 90
DRAWN BY:	MRZ	
DESIGNED BY:	BJM	
CHECKED BY:	CRS	

C:\obec\pwobec01\d0376494\SS21.dwg

W

4" WHITE LINE

TWL

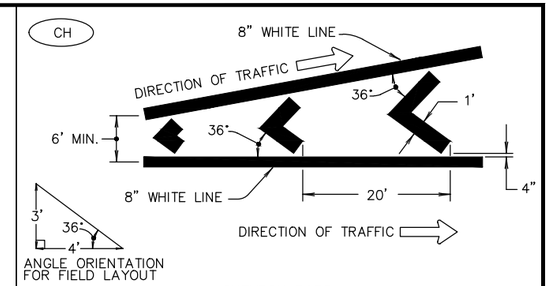


TWO-WAY CENTER TURN LANE

W-2

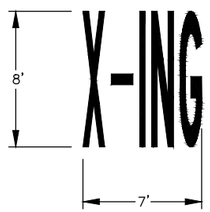
8" WHITE LINE

CH



CHEVRON BARS
1' WHITE BARS AT 20' SPACING

XNG



X-ING (WHITE)

CENTER MARKING WITHIN LANE WIDTH
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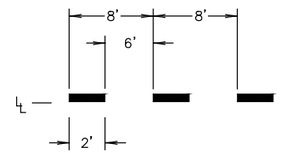
Y

4" YELLOW LINE

WD



4" WHITE DOTTED LINE

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JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

STRIPING DETAILS

NO SCALE

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS22 OF 90

C:\obec\pwobec01\d0376494\SS22.dwg

R3-9b

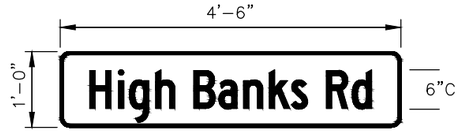
SIGN NO. 1

SIGN NO. 2

SIGN NO. 3

R2-1

SIGN NO. 4



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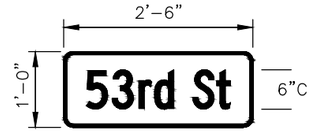

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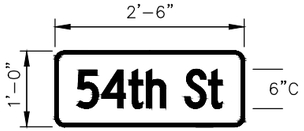
R1-1

SIGN NO. 7



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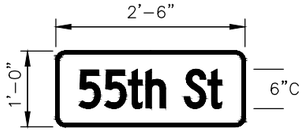

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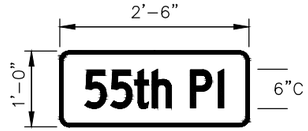

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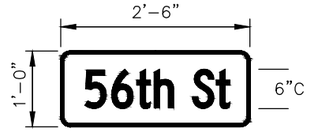

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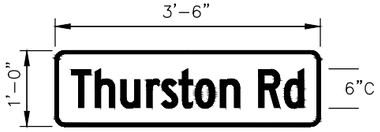
W2-6

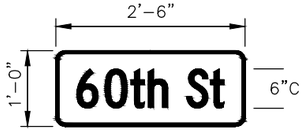
SIGN NO. 12

W13-IP

SIGN NO. 13



**SIGN NO. 14



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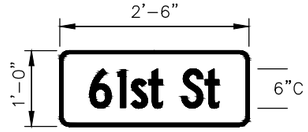

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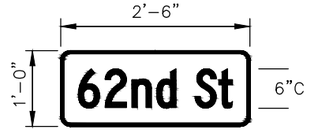
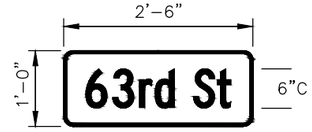
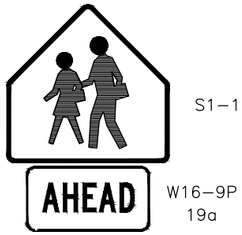


**SIGN NO. 17



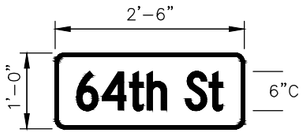
**SIGN NO. 18



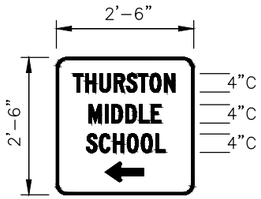
S1-1

W16-9P
19a

SIGN NO. 19



**SIGN NO. 20



SIGN NO. 21

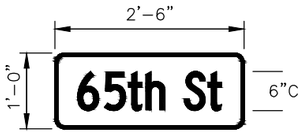
SIGN NO. 22

OR22-7

SIGN NO. 23

R2-1

SIGN NO. 24



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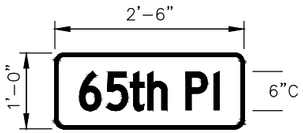

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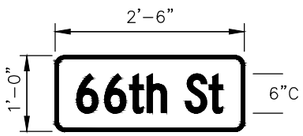

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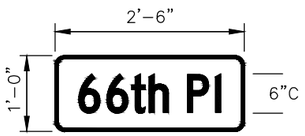
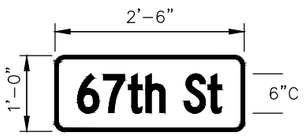
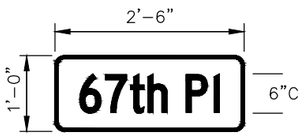


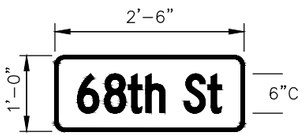
**SIGN NO. 28



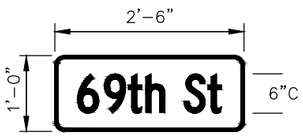
**SIGN NO. 29



**SIGN NO. 30



**SIGN NO. 31



**SIGN NO. 32

SIGNS SHOWN WITH BROKEN BORDERS ARE EXISTING.

**DOUBLE SIDED STREET NAME SIGN TO BE INSTALLED PER SPRINGFIELD STANDARD DRAWING 5-18

No.	Revision/Issue	Date

NOTE:

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City of Springfield

PUBLIC WORKS / ENGINEERING
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PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
6339
Celena R Stone
Digitally signed by Celena R Stone
Date: 2020.11.25 16:00:03-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING DETAILS

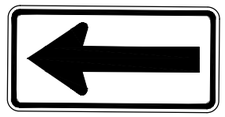
NO SCALE	
DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS23 OF 90

C:\obec\pwobec01\d0376494\SS23.dwg

SIGN NO. 33

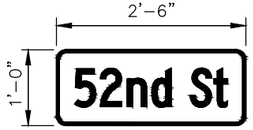
W1–6L



SIGN NO. 34

2'–6"

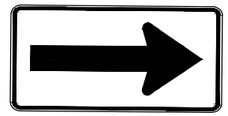
1'–0"



6"C

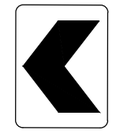
**SIGN NO. 35

W1–6R



**SIGN NO. 36

W1–8L



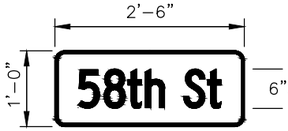
SIGN NO. 37

W1–8R

SIGN NO. 38

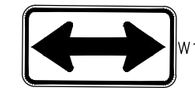
2'–6"

1'–0"



6"C

**SIGN NO. 39



W1–7

SIGN NO. 40

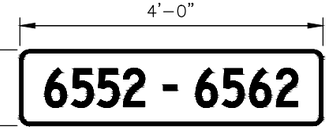
SIGN NO. 41

SIGN NO. 42

SIGN NO. 43

4'–0"

1'–0"



6"C

SIGN NO. 44

SIGN NO. 45

SIGN NO. 46

SIGN NO. 47

SIGN NO. 48

SIGN NO. 49

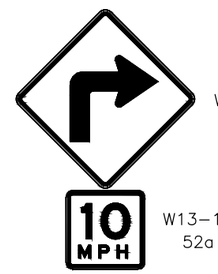
R9–11a

SIGN NO. 50

W1–1L

W13–1P
54a

SIGN NO. 51



W1–1R

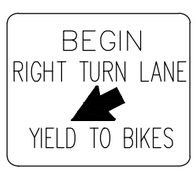
W13–1P
52a

SIGN NO. 52

W1–1L

W13–1P
53a

SIGN NO. 53



R4–4

SIGN NO. 54

2'–6"

2'–6"

4"C

4"C

4"C

SIGN NO. 55

SIGNS SHOWN WITH BROKEN BORDERS ARE EXISTING.

**DOUBLE SIDED STREET NAME SIGN TO BE INSTALLED PER SPRINGFIELD STANDARD DRAWING 5–18

No.	Revision/Issue	Date

NOTE:

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DKS
720 SW Washington St, Suite 500
Portland, Oregon 97205
www.dksassociates.com

Project 0092-0030
HIGH BANKS AND THURSTON OVERLAY

City of Springfield
PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
6339
Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 16:01:44-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING DETAILS

NO SCALE	
DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS24 OF 90

C:\obec\pwobec01\d0376494\SS24.dwg

SIGN AND POST DATA TABLE

SIGN NO.	SIGN LOCATION 4/	SIGN DIMENSIONS		SUB-STRATE			COLOR 1/					LEGEND TYPE		SIGN NO. 2/	TYPE OF SUPPORT															POST		FOOTING		REMARKS
							BACK-GROUND		LEGEND																SECONDARY SIGN SUPPORT					SIZE	LENGTH	LOCATION 3/	MIN. DEPTH 5/	
		WIDTH	HEIGHT	PLYWOOD	SHEET ALUMINUM	EXTRUDED ALUMINUM	ASTM TYPE III OR TYPE IV	ASTM TYPE IX	ASTM TYPE III OR TYPE IV	ASTM TYPE IX	NON-REFLECTIVE	PERMANENT	DEMOUNTABLE		WOOD POST (ODOT TM670-671, TM676)	PERF. STEEL SQUARE TUBE (ODOT TM671, TM676, TM681, TM687-689)	TRIANGULAR BASE BREAKAWAY (ODOT TM602)	MULTI-POST BREAKAWAY (ODOT TM220, TM600-601)	STAINLESS STEEL CLAMP (SSC) (TM677)	SIGNAL POLE MOUNT (ODOT TM880)	CROSSWALK CLOSURE BARRICADE (ODOT TM240)	VERTICAL SIGN MOUNT ON EXISTING STRUCTURE	MILEPOST MARKER POST	ADJUSTABLE SIGN MOUNT	MAST ARM SNS MOUNT	ROUND PIPE SUPPORT (CITY OF SPRINGFIELD STD DWG 5-18)	C 4 X 5.4	C 4 X 7.25	LENGTH (FT.)	(BASED ON ESTIMATED LENGTH)	(MUST BE FIELD VERIFIED)			
1	404+73 RT	24"	36"		✓		SW				BK	✓		1											✓					2" RIGID GALV. STEEL	12'-6"	2'	2'	3/ BACK OF WALK.
1	432+75 LT	24"	36"		✓		SW				BK	✓		1											✓					2" RIGID GALV. STEEL	12'-6"	2'	2'	3/ BACK OF WALK.
4	406+01 RT	24"	30"		✓		SW				BK	✓		4											✓					2" RIGID GALV. STEEL	12'-0"	2'	2'	3/ BACK OF WALK.
4	435+39 LT	24"	30"		✓		SW				BK	✓		4																EXISTING				MOUNT ON EXISTING SIGN SUPPORT.
4	507+02 RT	24"	30"		✓		SW				BK	✓		4											✓					2" RIGID GALV. STEEL	12'-0"	3'	2'	3/ BACK OF WALK.
4	521+55 LT	24"	30"		✓		SW				BK	✓		4											✓					2" RIGID GALV. STEEL	12'-0"	3'	2'	3/ BACK OF WALK.
5	403+52 LT	54"	12"		✓		G		SW			✓		5																				MOUNT WITH SIGNS 7, 34, AND 35.
5	410+57 RT	54"	12"		✓		G		SW			✓		5											✓					2" RIGID GALV. STEEL	12'-0"	1'	2'	3/ BACK OF WALK. MOUNT WITH SIGNS 6 AND 7.
5	417+63 RT	54"	12"		✓		G		SW			✓		5											✓					2" RIGID GALV. STEEL	12'-0"	1'	2'	3/ BACK OF WALK. MOUNT WITH SIGNS 7 AND 8.
5	423+42 RT	54"	12"		✓		G		SW			✓		5											✓					2" RIGID GALV. STEEL	12'-0"	1'	2'	3/ BACK OF WALK. MOUNT WITH SIGNS 7 AND 9.
5	426+97 RT	54"	12"		✓		G		SW			✓		5											✓					2" RIGID GALV. STEEL	12'-0"	1'	2'	3/ BACK OF WALK. MOUNT WITH SIGNS 7 AND 10.
5	431+85 RT	54"	12"		✓		G		SW			✓		5											✓					2" RIGID GALV. STEEL	12'-0"	12'	2'	3/ FACE OF CURB. MOUNT WITH SIGNS 7 AND 11.
5	440+77 LT	54"	12"		✓		G		SW			✓		5											✓					2" RIGID GALV. STEEL	9'-0"	1'	2'	3/ BACK OF WALK. MOUNT WITH SIGNS 37, 38 AND 39.
6	410+57 RT	30"	12"		✓		G		SW			✓		6																				MOUNT WITH SIGNS 5 AND 7.
7	403+52 LT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 7, 34 AND 35.
7	410+57 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 5 AND 6.
7	417+63 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 5 AND 8.
7	423+42 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 5 AND 9.
7	426+97 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 5 AND 10.
7	431+85 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 5 AND 11.
7	443+53 LT	30"	30"		✓		R		SW			✓		7											✓					2" RIGID GALV. STEEL	12'-0"	1'	2'	3/ BACK OF WALK.
7	512+13 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 15
7	513+96 LT	30"	30"		✓		R		SW			✓		7											✓					2" RIGID GALV. STEEL	12'-0"	12'	2'	3/ FACE OF CURB.
7	514+37 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 16.
7	518+79 LT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 17.
7	522+91 LT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 18.
7	524+53 LT	30"	30"		✓		R		SW			✓		7											✓					2" RIGID GALV. STEEL	12'-0"	10'	2'	3/ FACE OF CURB.
7	526+41 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 20.
7	527+02 LT	30"	30"		✓		R		SW			✓		7											✓					2" RIGID GALV. STEEL	12'-0"	8'	2'	3/ FACE OF CURB.
7	529+97 LT	30"	30"		✓		R		SW			✓		7											✓					2" RIGID GALV. STEEL	12'-0"	21'	2'	3/ EDGE OF TRAVEL LANE.
7	531+54 LT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 25.
7	533+29 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 25.
7	535+63 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 26.

1/ BK=BLACK
BL=BLUE
BR=BROWN
FY=FLUORESCENT YELLOW
G=GREEN
O=ORANGE
P=PURPLE
R=RED
RB=RED-BLUE
SW=SILVER-WHITE
W=WHITE
Y=YELLOW
YG=FLOURESCENT YELLOW-GREEN

2/ NOTE: L,C,R ARE LOCATIONS OF POSTS FACING THE SIGN.

L=LEFT POST
C=CENTER POST
R=RIGHT POST

3/ DISTANCE FROM EDGE OF TRAVEL LANE, FACE OF CURB, GUARDRAIL, OR BARRIER TO THE CENTERLINE OF FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWING TM635

4/ NOTE: THE LOCATIONS SHOWN ARE APPROXIMATE EXCEPT FOR SPEED ZONES, SCHOOL ZONES, OBJECT MARKERS AND MILEPOST MARKERS. EXACT LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.

No.	Revision/Issue	Date

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REGISTERED PROFESSIONAL ENGINEER 6339
Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 16:03:08-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING DETAILS

NO SCALE

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS25 OF 90

C:\obec\pwobec01\d0376494\SS25.dwg

SIGN AND POST DATA TABLE

SIGN NO.	SIGN LOCATION 4/	SIGN DIMENSIONS		SUB-STRATE			COLOR 1/					LEGEND TYPE		SIGN NO. 2/	TYPE OF SUPPORT															POST		FOOTING		REMARKS
							BACK-GROUND		LEGEND															SECONDARY SIGN SUPPORT					SIZE	LENGTH	LOCATION 3/	MIN. DEPTH 5/	
		WIDTH	HEIGHT	PLYWOOD	SHEET ALUMINUM	EXTRUDED ALUMINUM	ASTM TYPE III OR TYPE IV	ASTM TYPE IX	ASTM TYPE III OR TYPE IV	ASTM TYPE IX	NON-REFLECTIVE	PERMANENT	DEMOUNTABLE		WOOD POST (ODOT TM670-671, TM676)	PERF. STEEL SQUARE TUBE (ODOT TM671, TM676, TM681, TM687-689)	TRIANGULAR BASE BREAKAWAY (ODOT TM602)	MULTI-POST BREAKAWAY (ODOT TM220, TM600-601)	STAINLESS STEEL CLAMP (SSC) (TM677)	SIGNAL POLE MOUNT (ODOT TM880)	CROSSWALK CLOSURE BARRICADE (ODOT TM240)	VERTICAL SIGN MOUNT ON EXISTING STRUCTURE	MILEPOST MARKER POST	ADJUSTABLE SIGN MOUNT	MAST ARM SNS MOUNT	ROUND PIPE SUPPORT (CITY OF SPRINGFIELD STD DWG 5-18)	C 4 X 5.4	C 4 X 7.25	LENGTH (FT.)	(BASED ON ESTIMATED LENGTH)	(MUST BE FIELD VERIFIED)			
7	541+79 LT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 27.
7	541+95 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 27.
7	546+64 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 28.
7	549+63 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 29.
7	552+18 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 30.
7	553+84 LT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 31.
7	554+29 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 31.
7	559+30 RT	30"	30"		✓		R		SW			✓		7																				MOUNT WITH SIGNS 14 AND 32.
8	417+63 RT	30"	12"		✓		G		SW			✓		8																				MOUNT WITH SIGNS 5 AND 7.
9	423+42 RT	30"	12"		✓		G		SW			✓		9																				MOUNT WITH SIGNS 5 AND 7.
10	426+97 RT	30"	12"		✓		G		SW			✓		10																				MOUNT WITH SIGNS 5 AND 7.
11	431+85 RT	30"	12"		✓		G		SW			✓		11																				MOUNT WITH SIGNS 5 AND 7.
12	446+80 RT	30"	30"		✓		Y				BK	✓		12											✓				2" RIGID GALV. STEEL	13'-0"	0.5'	2'	3/ BACK OF WALK. MOUNT ABOVE SIGN 13.
13	446+80 RT	18"	18"		✓		Y				BK	✓		13																				MOUNT BELOW SIGN 12.
14	512+13 RT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	18'	2'	3/ FACE OF CURB. MOUNT WITH SIGNS 7 AND 15.
14	514+37 RT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	18'	2'	3/ FACE OF CURB. MOUNT WITH SIGNS 7 AND 16.
14	518+79 LT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	17'	2'	3/ FACE OF CURB. MOUNT WITH SIGNS 7 AND 17.
14	522+91 LT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	2'	2'	3/ BACK OF WALK. MOUNT WITH SIGNS 7 AND 18.
14	526+41 RT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	1'	2'	3/ BACK OF WALK. MOUNT WITH SIGNS 7 AND 20.
14	531+54 LT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	1'	2'	3/ BACK OF WALK. MOUNT WITH SIGNS 7 AND 25.
14	533+29 RT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	15'	2'	3/ FACE OF CURB. MOUNT WITH SIGNS 7 AND 25.
14	535+63 RT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	4'	2'	3/ FACE OF CURB. MOUNT WITH SIGNS 7 AND 26.
14	538+21 LT	42"	12"		✓		G		SW			✓		14															EXISTING				3/ FACE OF CURB. MOUNT WITH SIGNS 7 AND 44.
14	541+79 LT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	37'	2'	3/ EDGE OF TRAVEL LANE. MOUNT WITH SIGNS 7 AND 27.
14	541+95 RT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	33'	2'	3/ EDGE OF TRAVEL LANE. MOUNT WITH SIGNS 7 AND 27.
14	546+64 RT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	1'	2'	3/ BACK OF WALK. MOUNT WITH SIGNS 7 AND 28.
14	549+18 LT	42"	12"		✓		G		SW			✓		14															EXISTING				3/ BACK OF WALK. MOUNT WITH SIGNS 7 AND 29.
14	549+63 RT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	1'	2'	3/ BACK OF WALK. MOUNT WITH SIGNS 7 AND 29.
14	552+18 RT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	1'	2'	3/ BACK OF WALK. MOUNT WITH SIGNS 7 AND 30.
14	553+84 LT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	18'	2'	3/ FACE OF CURB. MOUNT WITH SIGNS 7 AND 31.
14	554+29 RT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	1'	2'	3/ BACK OF WALK. MOUNT WITH SIGNS 7 AND 31.
14	559+30 RT	42"	12"		✓		G		SW			✓		14											✓				2" RIGID GALV. STEEL	12'-0"	20'	2'	3/ FACE OF CURB. MOUNT WITH SIGNS 7 AND 32.

1/ BK=BLACK
BL=BLUE
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FY=FLUORESCENT YELLOW
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RB=RED-BLUE
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2/ NOTE: L,C,R ARE LOCATIONS OF POSTS FACING THE SIGN.

L=LEFT POST
C=CENTER POST
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3/ DISTANCE FROM EDGE OF TRAVEL LANE, FACE OF CURB, GUARDRAIL, OR BARRIER TO THE CENTERLINE OF FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWING TM635

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No.	Revision/Issue	Date

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720 SW Washington St, Suite 500
Portland, Oregon 97205
www.dksassociates.com
DKS

Project 0092-0030
HIGH BANKS AND THURSTON OVERLAY

City of Springfield
PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET www.springfield-or.gov
SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER 6339
Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 16:04:38-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING DETAILS

NO SCALE

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS26 OF 90

C:\obec\pwobec01\d0376494\SS26.dwg

SIGN AND POST DATA TABLE

SIGN NO.	SIGN LOCATION 4/	SIGN DIMENSIONS		SUB-STRATE			COLOR 1/					LEGEND TYPE		SIGN NO. 2/	TYPE OF SUPPORT																POST		FOOTING		REMARKS
							BACK-GROUND		LEGEND																	SECONDARY SIGN SUPPORT				SIZE	LENGTH	LOCATION 3/	MIN. DEPTH 5/	
		WIDTH	HEIGHT	PLYWOOD	SHEET ALUMINUM	EXTRUDED ALUMINUM	ASTM TYPE III OR TYPE IV	ASTM TYPE IX	ASTM TYPE III OR TYPE IV	ASTM TYPE IX	NON-REFLECTIVE	PERMANENT	DEMOUNTABLE		WOOD POST (ODOT TM670-671, TM676)	PERF. STEEL SQUARE TUBE (ODOT TM671, TM676, TM681, TM687-688)	TRIANGULAR BASE BREAKAWAY (ODOT TM802)	MULTI-POST BREAKAWAY (ODOT TM220, TM600-601)	STAINLESS STEEL CLAMP (SSC) (TM677)	SIGNAL POLE MOUNT (ODOT TM880)	CROSSWALK CLOSURE BARRICADE (ODOT TM240)	VERTICAL SIGN MOUNT ON EXISTING STRUCTURE	MILEPOST MARKER POST	ADJUSTABLE SIGN MOUNT	MAST ARM SNS MOUNT	ROUND PPE SUPPORT (CITY OF SPRINGFIELD STD DWG 5-18)	C 4 X 5.4	C 4 X 7.25	LENGTH (FT.)	(BASED ON ESTIMATED LENGTH)	(MUST BE FIELD VERIFIED)			
15	512+13 RT	30"	12"		✓		G		SW			✓		15																					MOUNT WITH SIGNS 7 AND 14.
16	514+37 RT	30"	12"		✓		G		SW			✓		16																					MOUNT WITH SIGNS 7 AND 14.
17	518+79 LT	30"	12"		✓		G		SW			✓		17																					MOUNT WITH SIGNS 7 AND 14.
18	522+91 LT	30"	12"		✓		G		SW			✓		18																					MOUNT WITH SIGNS 7 AND 14.
19	533+50 LT	30"	30"		✓		Y				BK	✓		19																	2" RIGID GALV. STEEL	13'-0"	3'	2'	3/FACE OF CURB. MOUNT WITH SIGN 19a.
19a	533+50 LT	24"	12"		✓		Y				BK	✓		19a																					MOUNT WITH SIGN 19.
20	526+41 RT	30"	12"		✓		G		SW			✓		20																					MOUNT WITH SIGNS 7 AND 14.
21	539+67 RT	30"	30"		✓		SW				BK	✓		21												✓					2" RIGID GALV. STEEL	12'-0"	2'	2'	3/BACK OF CURB.
23	541+29 RT	24"	18"		✓		SW				BK	✓		23							✓										BARRICADE		9'		3/FACE OF CURB. MOUNT OPPOSITE SIGN 23.
23	541+29 RT	24"	18"		✓		SW				BK	✓		23																					MOUNT OPPOSITE SIGN 23.
23	541+71 LT	24"	18"		✓		SW				BK	✓		23							✓										BARRICADE		18'		3/EDGE OF TRAVEL LANE. MOUNT OPPOSITE SIGN 23.
23	541+71 LT	24"	18"		✓		SW				BK	✓		23																					MOUNT OPPOSITE SIGN 23.
24	542+56 RT	24"	30"		✓		SW				BK	✓		24												✓					2" RIGID GALV. STEEL	12'-0"	1'	2'	3/BACK OF WALK.
24	556+98 LT	24"	30"		✓		SW				BK	✓		24												✓					2" RIGID GALV. STEEL	12'-0"	1'	2'	3/BACK OF WALK.
24	559+54 RT	24"	30"		✓		SW				BK	✓		24												✓					2" RIGID GALV. STEEL	12'-0"	0.5'	2'	3/BACK OF WALK.
25	531+54 LT	30"	12"		✓		G		SW			✓		25																					MOUNT WITH SIGNS 7 AND 14.
25	533+29 RT	30"	12"		✓		G		SW			✓		25																					MOUNT WITH SIGNS 7 AND 14.
26	535+63 RT	30"	12"		✓		G		SW			✓		26																					MOUNT WITH SIGNS 7 AND 14.
27	541+79 LT	30"	12"		✓		G		SW			✓		27																					MOUNT WITH SIGNS 7 AND 14.
27	541+95 RT	30"	12"		✓		G		SW			✓		27																					MOUNT WITH SIGNS 7 AND 14.
28	546+64 RT	30"	12"		✓		G		SW			✓		28																					MOUNT WITH SIGNS 7 AND 14.
29	549+18 LT	30"	12"		✓		G		SW			✓		29																					MOUNT WITH SIGNS 7 AND 14.
29	549+63 RT	30"	12"		✓		G		SW			✓		29																					MOUNT WITH SIGNS 7 AND 14.
30	552+18 RT	30"	12"		✓		G		SW			✓		30																					MOUNT WITH SIGNS 7 AND 14.
31	553+84 LT	30"	12"		✓		G		SW			✓		31																					MOUNT WITH SIGNS 7 AND 14.
31	554+29 RT	30"	12"		✓		G		SW			✓		31																					MOUNT WITH SIGNS 7 AND 14.

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G=GREEN
O=ORANGE
P=PURPLE
R=RED
RB=RED-BLUE
SW=SILVER-WHITE
W=WHITE
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YG=FLOURESCENT YELLOW-GREEN

2/ NOTE: L,C,R ARE LOCATIONS OF POSTS FACING THE SIGN.

L=LEFT POST
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3/ DISTANCE FROM EDGE OF TRAVEL LANE, FACE OF CURB, GUARDRAIL, OR BARRIER TO THE CENTERLINE OF FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWING TM635

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No.	Revision/Issue	Date

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DKS
720 SW Washington St, Suite 500
Portland, Oregon 97205
www.dksassociates.com

Project 0092-0030
HIGH BANKS AND THURSTON OVERLAY

City of Springfield
PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER 6339
Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 16:06:27-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

SIGNING DETAILS

NO SCALE

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS27 OF 90

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SIGN AND POST DATA TABLE

SIGN NO.	SIGN LOCATION 4/	SIGN DIMENSIONS		SUB-STRATE			COLOR 1/					LEGEND TYPE		SIGN NO. 2/	TYPE OF SUPPORT															POST		FOOTING		REMARKS
							BACK-GROUND		LEGEND																SECONDARY SIGN SUPPORT							LOCATION 3/	MIN. DEPTH 5/	
		WIDTH	HEIGHT	PLYWOOD	SHEET ALUMINUM	EXTRUDED ALUMINUM	ASTM TYPE III OR TYPE IV	ASTM TYPE IX	ASTM TYPE III OR TYPE IV	ASTM TYPE IX	NON-REFLECTIVE	PERMANENT	DEMOUNTABLE		WOOD POST (ODOT TM670-671, TM676)	PERF. STEEL SQUARE TUBE (ODOT TM671, TM676, TM681, TM687-689)	TRIANGULAR BASE BREAKAWAY (ODOT TM602)	MULTI-POST BREAKAWAY (ODOT TM220, TM600-601)	STAINLESS STEEL CLAMP (SSC) (TM677)	SIGNAL POLE MOUNT (ODOT TM680)	CROSSWALK CLOSURE BARRICADE (ODOT TM240)	VERTICAL SIGN MOUNT ON EXISTING STRUCTURE	MILEPOST MARKER POST	ADJUSTABLE SIGN MOUNT	MAST ARM SNS MOUNT	ROUND PIPE SUPPORT (CITY OF SPRINGFIELD STD DWG 5-18)	C 4 X 5.4	C 4 X 7.25	LENGTH (FT.)	SIZE (BASED ON ESTIMATED LENGTH)	LENGTH (MUST BE FIELD VERFIED)			
32	559+30 RT	30"	12"		✓		G		SW			✓		32																				MOUNT WITH SIGNS 7 AND 14.
34	403+52 LT	48"	24"		✓		Y				BK	✓		34																				MOUNT WITH SIGNS 5, 7 AND 35.
35	403+52 LT	30"	12"		✓		G		SW			✓		35											✓				2" RIGID GALV. STEEL	12'-0"	2'	2'	3/BACK OF WALK. MOUNT WITH SIGNS 5, 7 AND 34.
36	403+84 LT	48"	24"		✓		Y				BK	✓		36											✓				2" RIGID GALV. STEEL	9'-0"	3'	3'	3/BACK OF WALK.
37	440+44 LT	12"	18"		✓		Y				BK	✓		37															EXISTING				MOUNT ON EXISTING SUPPORT.
37	440+77 LT	12"	18"		✓		Y				BK	✓		37																				MOUNT WITH SIGNS 5, 38 AND 39.
37	441+03 LT	12"	18"		✓		Y				BK	✓		37															EXISTING				MOUNT ON EXISTING SUPPORT WITH SIGN 38.
38	440+77 LT	12"	18"		✓		Y				BK	✓		37																				MOUNT WITH SIGNS 5, 37 AND 39.
38	441+03 LT	12"	18"		✓		Y				BK	✓		37															EXISTING				MOUNT ON EXISTING SUPPORT WITH SIGN 37.
39	440+77 LT	30"	12"		✓		G		SW			✓		39																				MOUNT WITH SIGNS 5, 37 AND 38.
40	511+91 LT	48"	24"		✓		Y				BK	✓		40															EXISTING				MOUNT ON EXISTING SIGN SUPPORTS.
44	538+21 LT	48"	12"		✓		G		SW			✓		44																				MOUNT WITH SIGNS 7 AND 14.
50	559+57 LT	48"	24"		✓		SW				BK	✓		50							✓								BARRICADE		3'		3/FACE OF CURB.
51	531+23 RT	30"	30"		✓		Y				BK	✓		51											✓				2" RIGID GALV. STEEL	13'-0"	3'	2'	3/BACK OF WALK. MOUNT WITH SIGN 51a.
51a	531+23 RT	18"	18"		✓		Y				BK	✓		51a																				MOUNT WITH SIGN 51.
52	437+11 RT	30"	30"		✓		Y				BK	✓		52											✓				2" RIGID GALV. STEEL	13'-0"	1.5'	2'	3/BACK OF WALK. MOUNT WITH SIGN 52a.
52a	437+11 RT	18"	18"		✓		Y				BK	✓		52a																				MOUNT WITH SIGN 52.
53	444+47 LT	30"	30"		✓		Y				BK	✓		53											✓				2" RIGID GALV. STEEL	13'-0"	0.5'	2'	3/BACK OF WALK. MOUNT WITH SIGN 53a.
53a	444+47 LT	18"	18"		✓		Y				BK	✓		53a																				MOUNT WITH SIGN 53.
54	402+47 LT	36"	30"		✓		SW				BK	✓		54											✓				2" RIGID GALV. STEEL	12'-0"	2'	2'	3/BACK OF CURB.
55	530+61 LT	30"	30"		✓		SW				BK	✓		55											✓				2" RIGID GALV. STEEL	12'-0"	2'	2'	3/BACK OF CURB.

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SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER 6339
Celena R Stone Digitally signed by Celena R Stone Date: 2020.11.25 16:08:32-08'00'
OREGON
JAN. 22, 2007
CELENA R. STONE
EXPIRES: DEC. 31, 2021

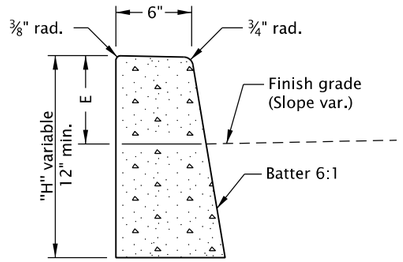
SIGNING DETAILS

NO SCALE

DRAWN BY:	MRZ
DESIGNED BY:	BJM
CHECKED BY:	CRS

SHEET SS28 OF 90

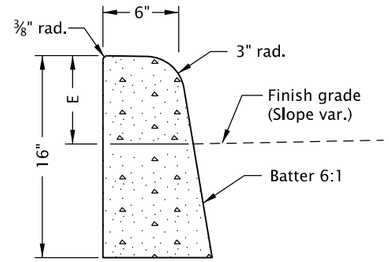
C:\obec\pwobec01\d0376494\SS28.dwg



O.D.O.T. & City of Portland Standard "H"=16"

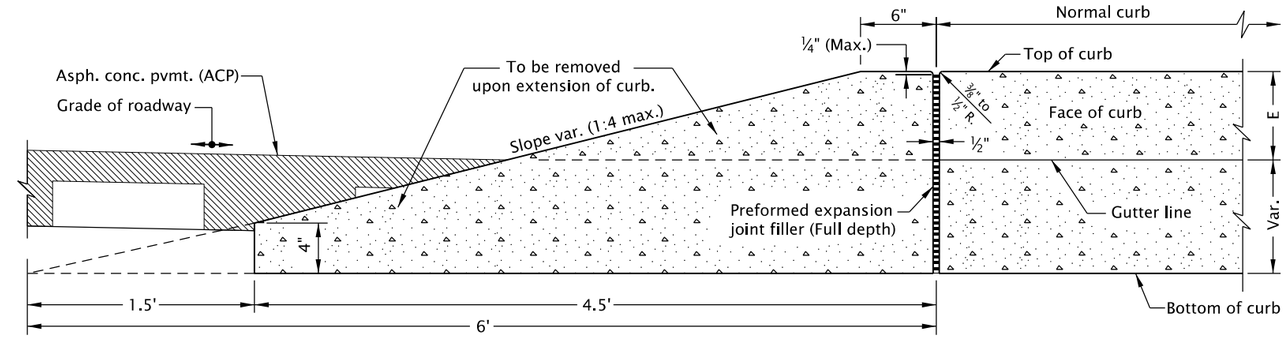
STANDARD CURB

(See general note 11)

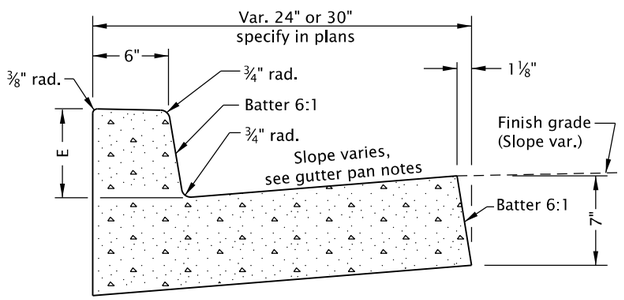


MOUNTABLE CURB

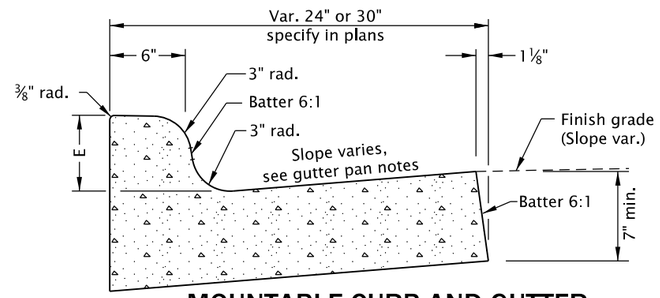
(See general note 11)



CURB ENDING DETAIL



CURB AND GUTTER



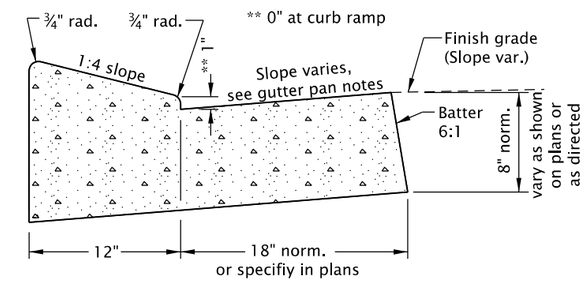
MOUNTABLE CURB AND GUTTER

GUTTER PAN NOTES:

Slope 5.0% normal.

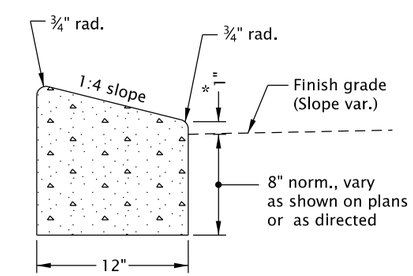
Slope 4.0% max. at curb ramps.

Vary slope as reqd. for drainage. Vary where shown on plans, and allowed by jurisdiction.



LOW PROFILE MOUNTABLE CURB AND GUTTER

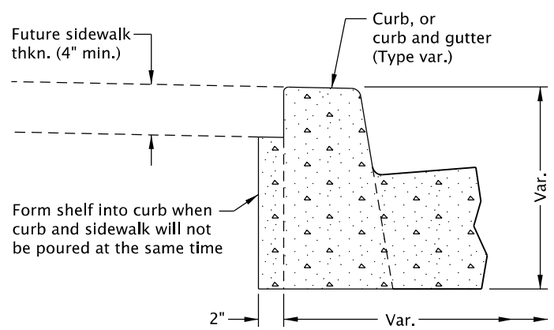
(Where shown on plans)



* 0" for Truck Apron

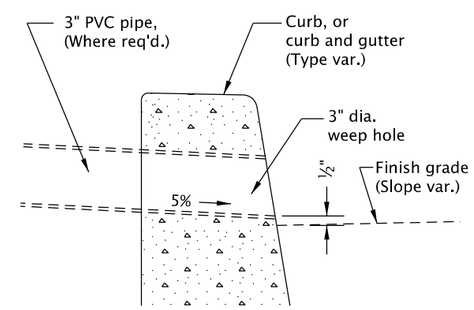
LOW PROFILE MOUNTABLE CURB

(See general note 11)



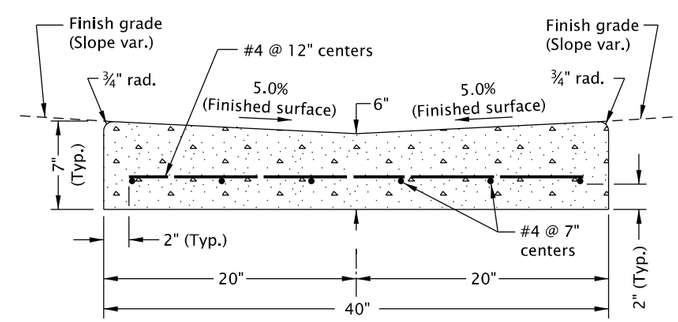
MODIFICATION FOR KEYWAY

(Where shown on plans)



WEEP HOLE DETAIL

(Where shown on plans, and allowed by jurisdiction)



VALLEY GUTTER

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Curb exposure "E" = 6" to 9", as measured vertically from flowline to highest point on curb. Vary as shown on plans or as directed. O.D.O.T standard "E"=7".
2. Const. curb expansion joints at 200' maximum spacing, and at points of tangency, and at ends of each driveways.
3. Const. curb contraction joints at 15' maximum spacing, and at ends of each inlet and curb ramp.
4. Transitions shall be used to connect curbs of different exposures "E". ("E" Is the total vertical dimension of those curb surfaces having a slope of 1:1 or steeper). Minimum desirable transition length shall be 20' for each 1" difference in "E".
5. Tops of all curbs shall slope toward the roadway at 1.5% max. (Max. 2.0% finished surface slope), unless otherwise shown, or as directed.
6. Dimensions are nominal, vary to conform with curb machine approved by the engineer.
7. Dimensions adjacent to radii are measured to the point of intersection of curb surfaces.
8. For sidewalk details, and monolithic curb & sidewalk, see Std. Dwgs. RD720 & RD721.
9. For drainage curbs, see Std. Dwg. RD701.
10. For curb ramp details, see Std. Dwgs. RD900 series.
11. On or along state highways, curb and gutter is required at curb ramp.

CALC. BOOK NO. N/A

SDR DATE 20-JUL-2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

CURBS

2021

DATE	REVISION DESCRIPTION

Effective Date: December 1, 2020 - May 31, 2021

rd700.dgn 20-JUL-2020

W

4" WHITE LINE

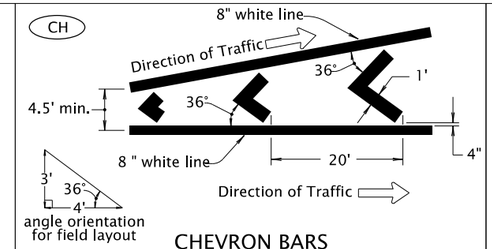
W-2

8" WHITE LINE

Y

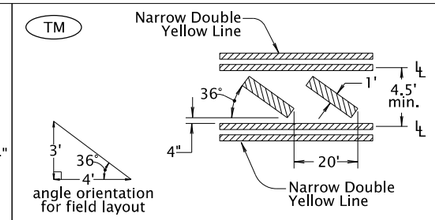
4" YELLOW LINE

CH



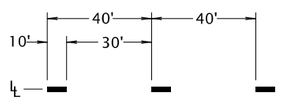
CHEVRON BARS
1' WHITE BARS AT 20' SPACING

TM



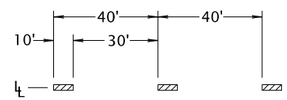
TRANSVERSE MEDIAN BARS
1' YELLOW BARS AT 20' SPACING

WB



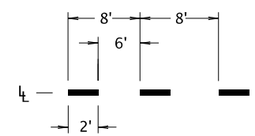
4" WHITE BROKEN LINE

YB



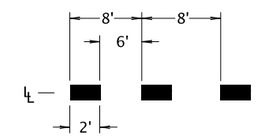
4" YELLOW BROKEN LINE

WD



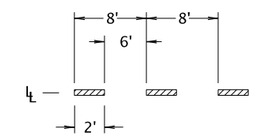
4" WHITE DOTTED LINE
For lane extensions

WD-2



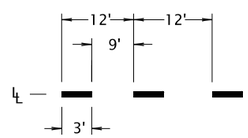
8" WHITE DOTTED LINE
For lane extensions and bike lane extensions

YD



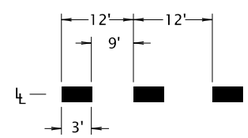
4" YELLOW DOTTED LINE
For lane extensions

DLL



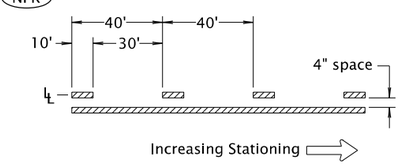
4" WHITE DOTTED LANE LINE
For lane lines in acceleration/deceleration lanes

DLL-2



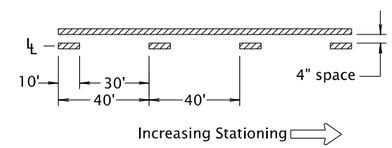
8" WHITE DOTTED LANE LINE
For lane lines in drop lanes

NPR



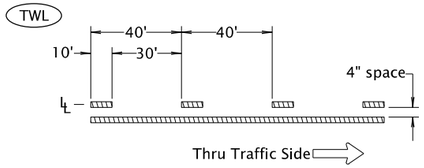
NO-PASS RIGHT
4" YELLOW LINES

NPL



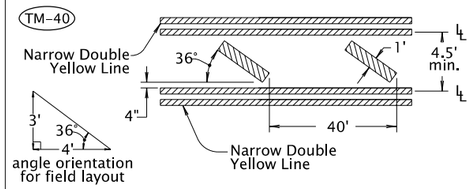
NO-PASS LEFT
4" YELLOW LINES

TWL



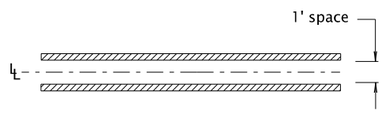
TWO-WAY LEFT TURN
4" YELLOW LINES

TM-40



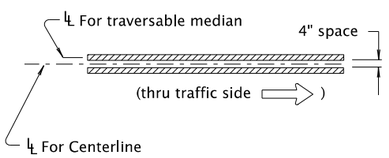
TRANSVERSE MEDIAN BARS
1' YELLOW BARS AT 40' SPACING
For use at painted medians where
distance between left turn refuges exceeds 200'

D



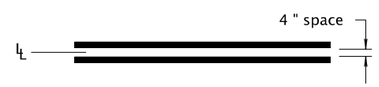
DOUBLE NO-PASS
TWO 4" YELLOW LINES

ND



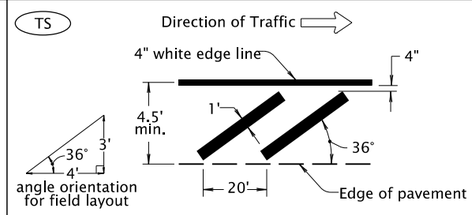
NARROW DOUBLE NO-PASS
TWO 4" YELLOW LINES

NDW



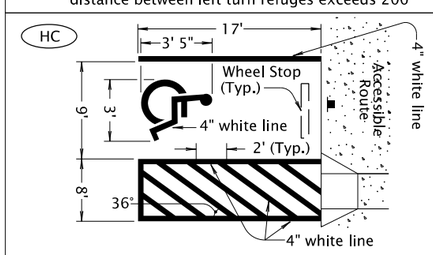
NARROW DOUBLE NO-LANE CHANGE
TWO 4" WHITE LINES

TS



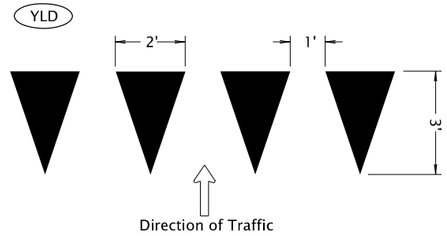
TRANSVERSE SHOULDER BARS
1' WHITE BARS AT 20' SPACING

HC



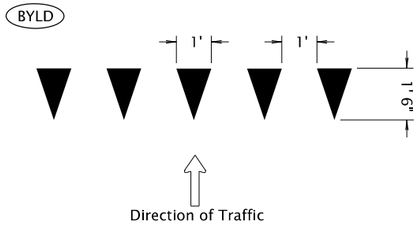
DISABLED PARKING DETAIL (white)

YLD



YIELD LINE (white)

BYLD



BICYCLE YIELD LINE (white)

LEGEND

Direction Of Traffic, Increasing Stationing
Or Thru Traffic Side

℄ — Lane line dimensions are shown on the
striping plans

CALC. BOOK NO. N/A

SDR DATE 07/01/2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.

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OREGON STANDARD DRAWINGS

PAVEMENT MARKING STANDARD DETAIL BLOCKS

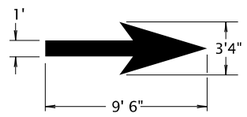
2021

DATE	REVISION DESCRIPTION
07/2020	Changed Min. widths for CH, TM, TM-40, and TS

TM500

Effective Date: December 01, 2020 - May 31, 2021

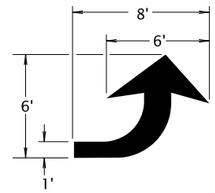
SA



STRAIGHT ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

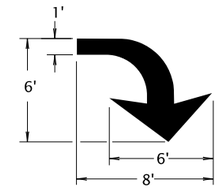
LA



LEFT TURN ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

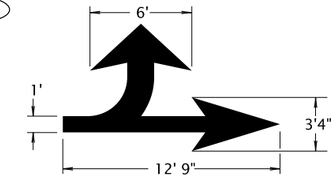
RA



RIGHT TURN ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

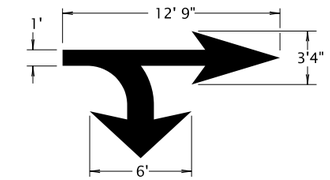
LSA



LEFT TURN STRAIGHT ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

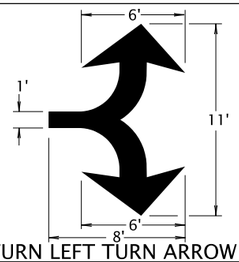
RSA



RIGHT TURN STRAIGHT ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

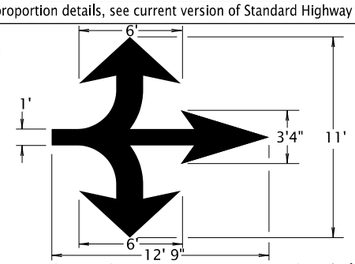
RALA



RIGHT TURN LEFT TURN ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

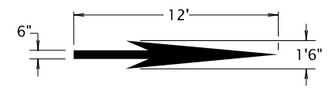
RSLA



RIGHT TURN STRAIGHT LEFT TURN ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

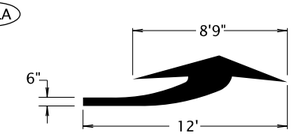
E-SA



ELONGATED STRAIGHT ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

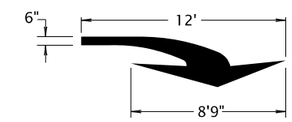
E-LA



ELONGATED LEFT TURN ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

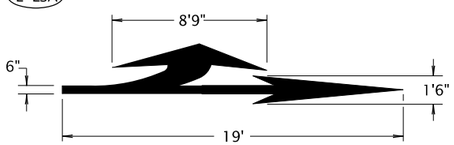
E-RA



ELONGATED RIGHT TURN ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

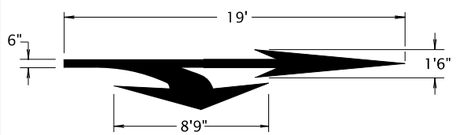
E-LSA



ELONGATED LEFT TURN STRAIGHT ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

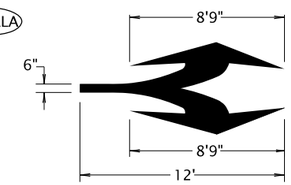
E-RSA



ELONGATED RIGHT TURN STRAIGHT ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

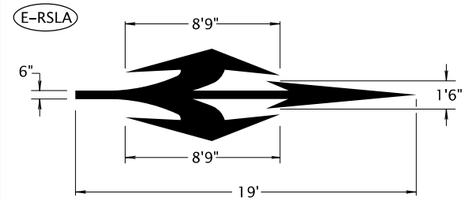
E-RALA



ELONGATED RIGHT TURN LEFT TURN ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

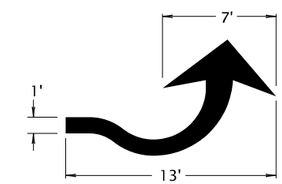
E-RSLA



ELONGATED RIGHT TURN STRAIGHT LEFT TURN ARROW (white)

For arrow proportion details, see current version of Standard Highway Signs

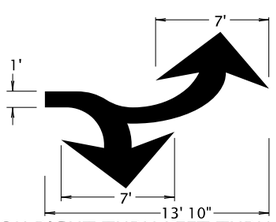
F-LA



FISH-HOOK LEFT TURN ARROW (white)

For arrow proportion details, see the current ODOT Traffic Line Manual

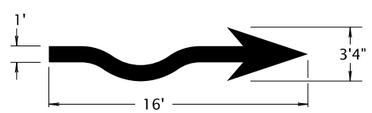
F-RALA



FISH-HOOK RIGHT TURN LEFT TURN ARROW (white)

For arrow proportion details, see the current ODOT Traffic Line Manual

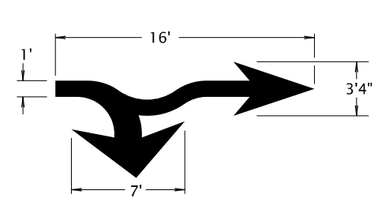
F-SA



FISH-HOOK STRAIGHT ARROW (white)

For arrow proportion details, see the current ODOT Traffic Line Manual

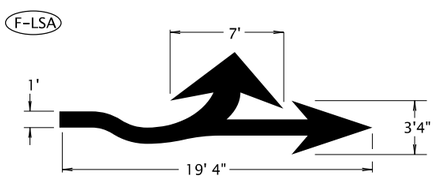
F-RSA



FISH-HOOK RIGHT TURN SRAIGHT ARROW (white)

For arrow proportion details, see the current ODOT Traffic Line Manual

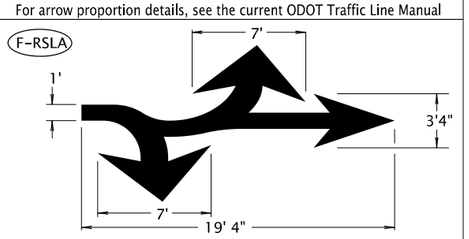
F-LSA



FISH-HOOK LEFT TURN STRAIGHT ARROW (white)

For arrow proportion details, see the current ODOT Traffic Line Manual

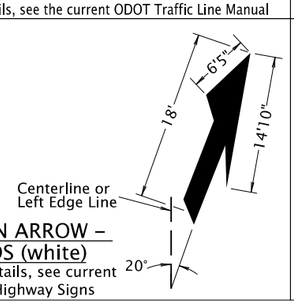
F-RSLA



FISH-HOOK RIGHT TURN STRAIGHT LEFT TURN ARROW (white)

For arrow proportion details, see the current ODOT Traffic Line Manual

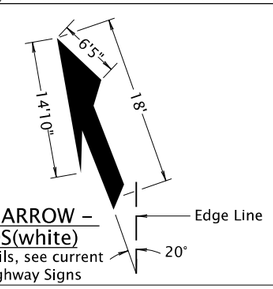
LRA-R



LANE REDUCTION ARROW - LEFT LANE ENDS (white)

For arrow proportion details, see current version of Standard Highway Signs

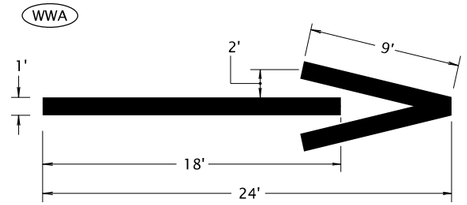
LRA-R



LANE REDUCTION ARROW - RIGHT LANE ENDS(white)

For arrow proportion details, see current version of Standard Highway Signs

WWA



WRONG-WAY ARROW (white)

General Note:

1. Center pavement markings within the lane width.
2. Arrow and letter dimensions nominal, excluding WWA.

CALC. BOOK NO. N/A

SDR DATE 07/01/2020

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

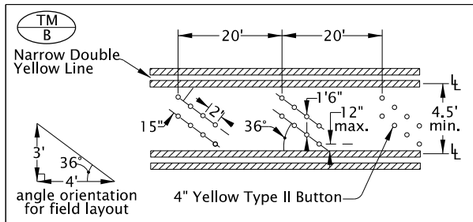
PAVEMENT MARKING STANDARD DETAIL BLOCKS

2021

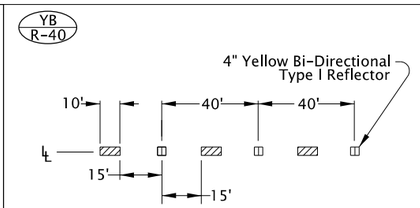
DATE	REVISION DESCRIPTION
07/2020	Some Detail Blocks moved to new Std. Drawing TM504
	Fish-hook Arrows added, LRA split into LRA-L and LRA-R

TM501

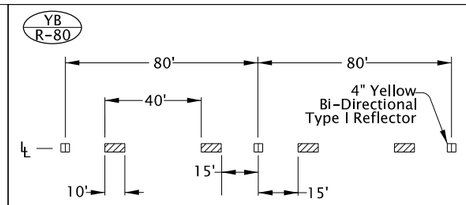
Effective Date: December 01, 2020 - May 31, 2021



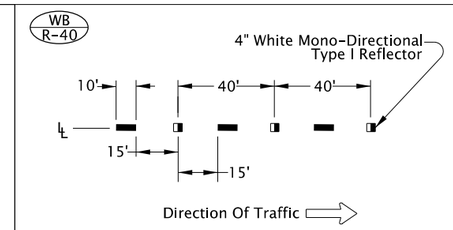
TRANSVERSE MEDIAN BAR SUBSTITUTION BUTTON



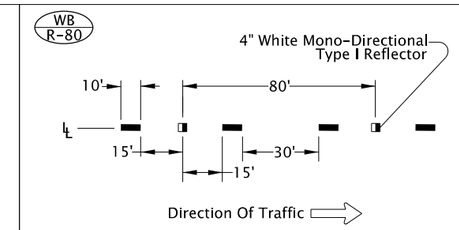
YELLOW BROKEN LINE SUPPLEMENTATION REFLECTORS WITH 4" YELLOW BROKEN LINE



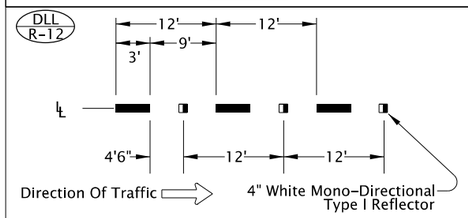
YELLOW BROKEN LINE SUPPLEMENTATION REFLECTORS WITH 4" YELLOW BROKEN LINE



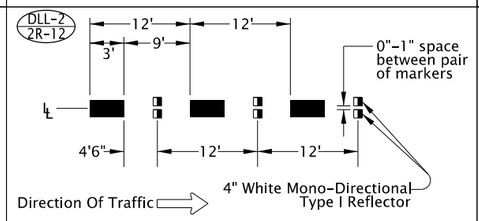
WHITE BROKEN LINE SUPPLEMENTATION REFLECTORS WITH 4" WHITE BROKEN LINE



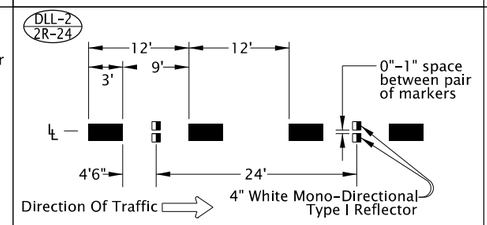
WHITE BROKEN LINE SUPPLEMENTATION REFLECTORS WITH 4" WHITE BROKEN LINE



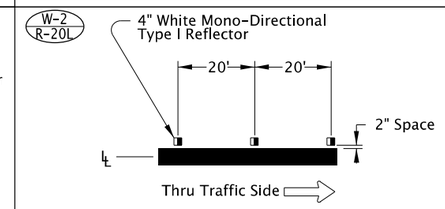
WHITE DOTTED LANE LINE SUPPLEMENTATION REFLECTORS WITH 4" WHITE DOTTED LANE LINE



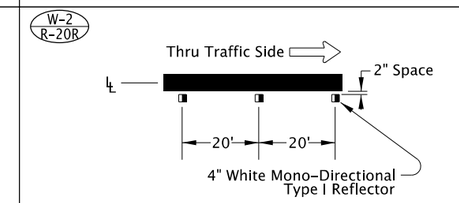
WIDE DOTTED LANE LINE SUPPLEMENTATION REFLECTORS WITH 8" WHITE DOTTED LANE LINE



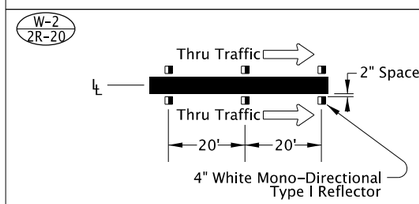
WIDE DOTTED LANE LINE SUPPLEMENTATION REFLECTORS WITH 8" WHITE DOTTED LANE LINE



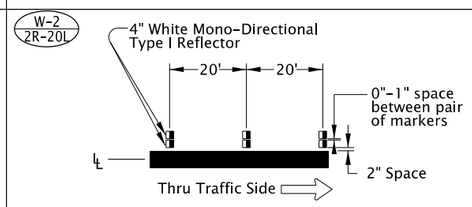
CHANNELIZING LINE POSITIONING GUIDE REFLECTORS WITH 8" WHITE LINE



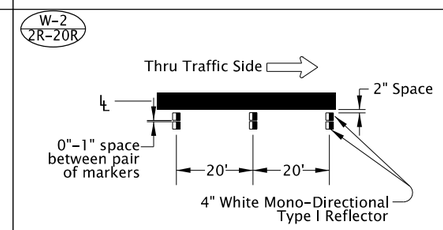
CHANNELIZING LANE LINE POSITIONING GUIDE REFLECTORS WITH 8" WHITE LINE



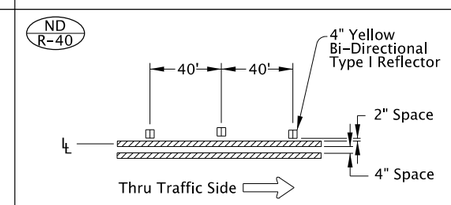
CHANNELIZING LANE LINE POSITIONING GUIDE REFLECTORS WITH 8" WHITE LINE



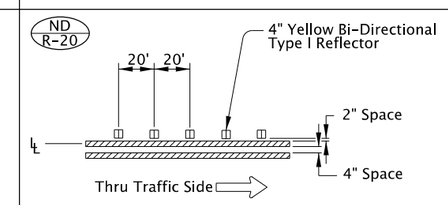
CHANNELIZING LINE SUPPLEMENTATION REFLECTORS WITH 8" WHITE LINE



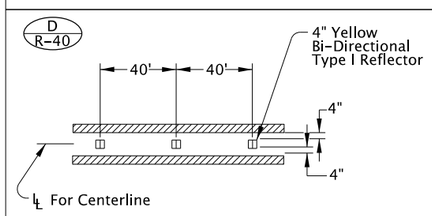
CHANNELIZING LINE SUPPLEMENTATION REFLECTORS WITH 8" WHITE LINE



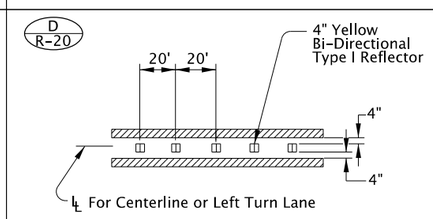
NARROW DOUBLE YELLOW POSITIONING GUIDE REFLECTORS WITH TWO 4" YELLOW LINES



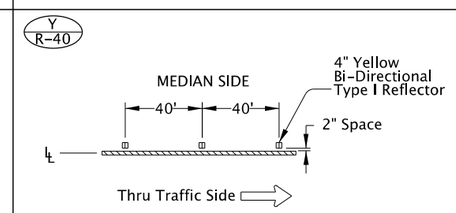
NARROW DOUBLE YELLOW POSITIONING GUIDE REFLECTORS WITH TWO 4" YELLOW LINES



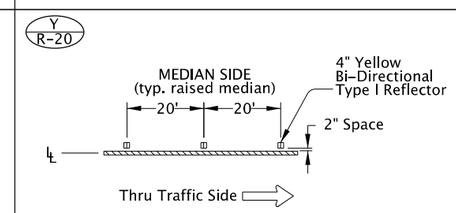
DOUBLE NO-PASS POSITIONING GUIDE REFLECTORS WITH TWO 4" YELLOW LINES



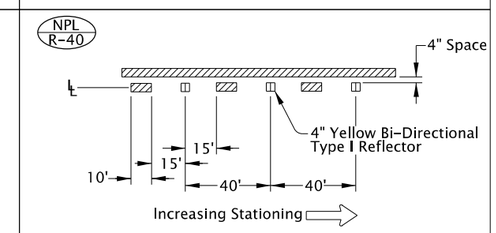
DOUBLE NO-PASS POSITIONING GUIDE REFLECTORS WITH TWO 4" YELLOW LINES



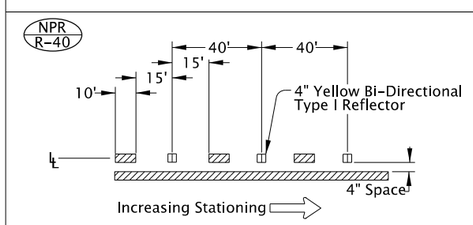
YELLOW LINE POSITIONING GUIDE REFLECTORS WITH 4" YELLOW LINE



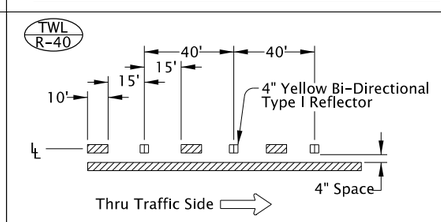
YELLOW LINE POSITIONING GUIDE REFLECTORS WITH 4" YELLOW LINE



NO-PASS LEFT POSITIONING GUIDE REFLECTORS WITH 4" YELLOW LINES



NO-PASS RIGHT POSITIONING GUIDE REFLECTORS WITH 4" YELLOW LINES



TWO WAY LEFT TURN POSITIONING GUIDE REFLECTORS WITH 4" YELLOW LINES

General note:

1) Surface mount Raised Pavement Markers (RPMs) unless otherwise specified.

LEGEND

- Direction Of Travel, Increasing Stationing or Thru Traffic Side
- Lane line dimensions are shown on the striping plans
- Mono-directional crystal white marker reflects white to the left in this symbol
- Bi-directional yellow marker reflects yellow both left and right in this symbol

CALC. BOOK NO. N/A

SDR DATE 07/01/2020

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NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

PAVEMENT MARKING STANDARD DETAIL BLOCKS

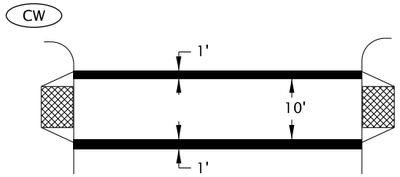
2021

DATE	REVISION DESCRIPTION
07/2020	*Changed min. width of TM/B from 6' to 4.5'*

TM502

Effective Date: December 01, 2020 - May 31, 2021

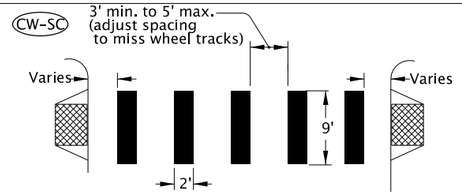
CW



STANDARD CROSSWALK
TWO 1' WHITE BARS

Install per Standard Drawing TM530

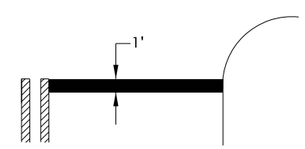
CW-SC



STAGGERED CONTINENTAL CROSSWALK
2' WHITE BARS

Install per Standard Drawing TM530

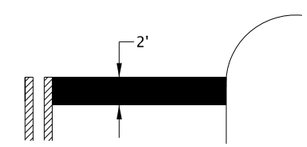
S



STOP BAR
1' WHITE BAR

Install per Standard Drawing TM530

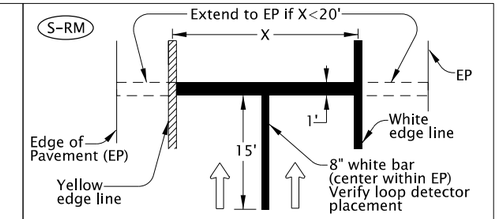
S-2



STOP BAR - LARGE
2' WHITE BAR

Install per Standard Drawing TM530

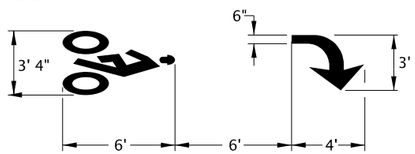
S-RM



RAMP METER STOP BAR
1' & 8" WHITE BARS

For multi-lane ramp meter applications

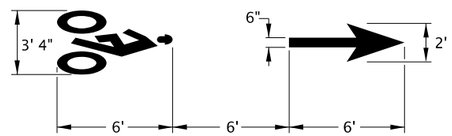
BR



BIKE RIGHT TURN STENCIL (white)

Center marking within lane width
For proportion details, see current version of Standard Highway Signs

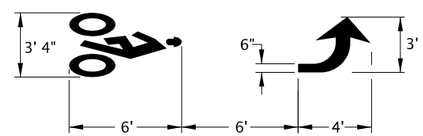
BS



BIKE LANE STANDARD STENCIL (white)

Center marking within lane width
For proportion details, see current version of Standard Highway Signs

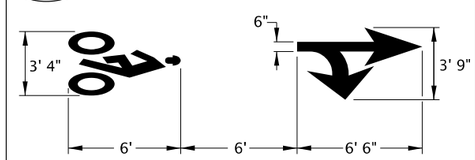
BL



BIKE LEFT TURN STENCIL (white)

Center marking within lane width
For proportion details, see current version of Standard Highway Signs

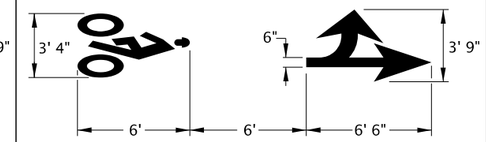
BRS



BIKE RIGHT TURN STRAIGHT STENCIL (white)

Center marking within lane width
For proportion details, see current version of Standard Highway Signs

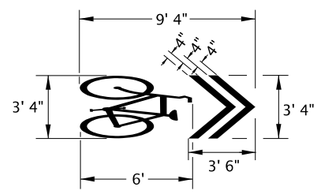
BLS



BIKE LEFT TURN STRAIGHT STENCIL (white)

Center marking within lane width
For proportion details, see current version of Standard Highway Signs

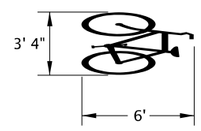
SLM



SHARED LANE MARKING (white)

Center marking within lane width or as shown
For proportion details, see current version of Standard Highway Signs

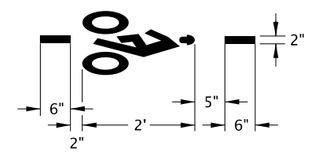
B



BIKE STENCIL (white)

Used for Intersection Bicycle Box applications
Place marking within bicycle box, ceneterd with motor vehicle lane width

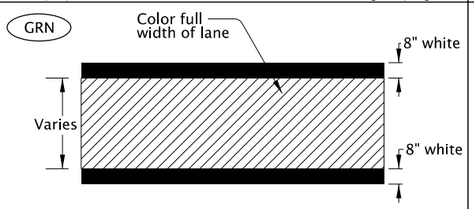
BD



BICYCLE DETECTOR MARKING (white)

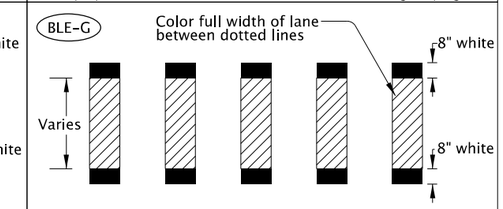
PLace Bicycle Detector Pavement Marking in optimum loction
where bicycle acuates the traffic signal

GRN



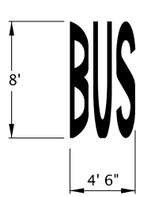
GREEN SUPPLEMENTAL BICYCLE LANE
SOLID LINE (green)

BLE-G



GREEN SUPPLEMENTAL BICYCLE LANE
DOTTED LINE EXTENSION (green)

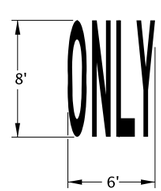
BUS



BUS (white)

Center marking within lane width
For letter proportion details, see current version of Standard Highway Signs

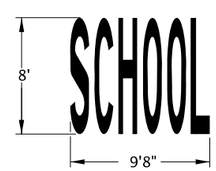
ON



ONLY (white)

Center marking within lane width
For letter proportion details, see current version of Standard Highway Signs

SCH



SCHOOL (white)

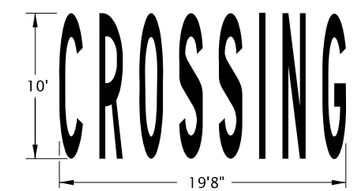
Center marking within lane width
For letter proportion details, see current version of Standard Highway Signs

SCH-LG

SCHOOL - LARGE (white)

Center marking within width of two lanes
For letter proportion details, see current version of Standard Highway Signs

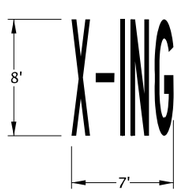
CRS-LG



CROSSING - LARGE (white)

Center marking within width of two lanes
For letter proportion details, see current version of Standard Highway Signs

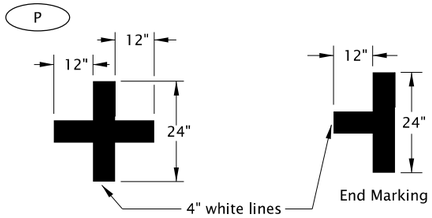
XNG



X-ING (white)

Center marking within lane width
For letter proportion details, see current version of Standard Highway Signs

P



ON-STREET PARKING DETAIL (white)

General Note:

1. Arrow, letter, and bike symbol dimensions nominal.

LEGEND

Direction of Travel

CALC. BOOK NO. N/A

SDR DATE 01/03/2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

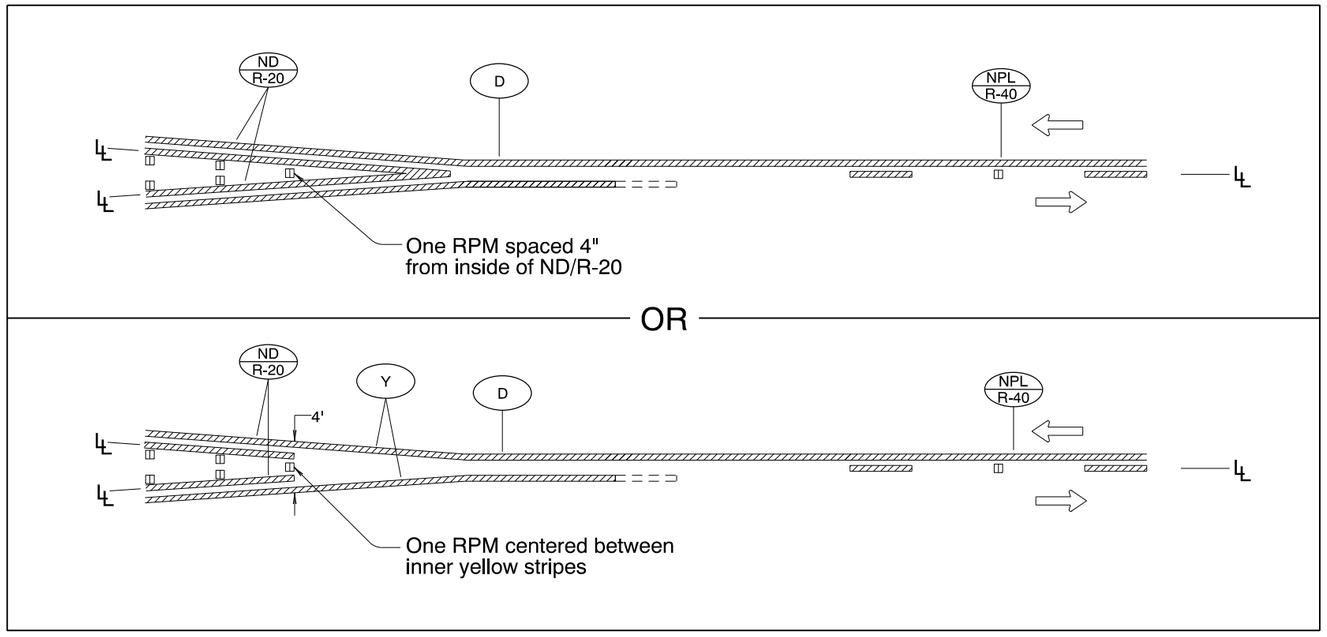
PAVEMENT MARKING STANDARD DETAIL BLOCKS

2021

DATE	REVISION DESCRIPTION

TM503

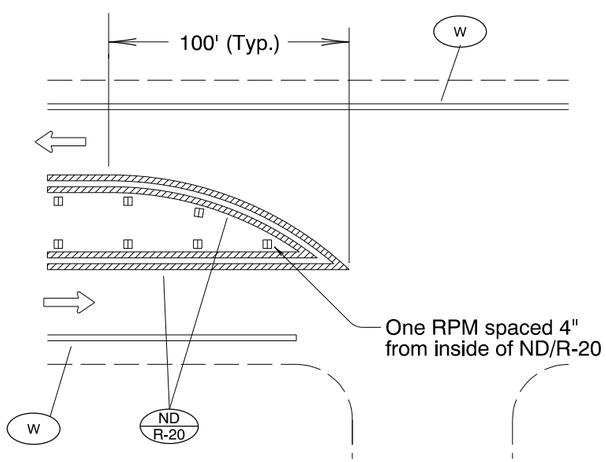
Effective Date: December 01, 2020 - May 31, 2021



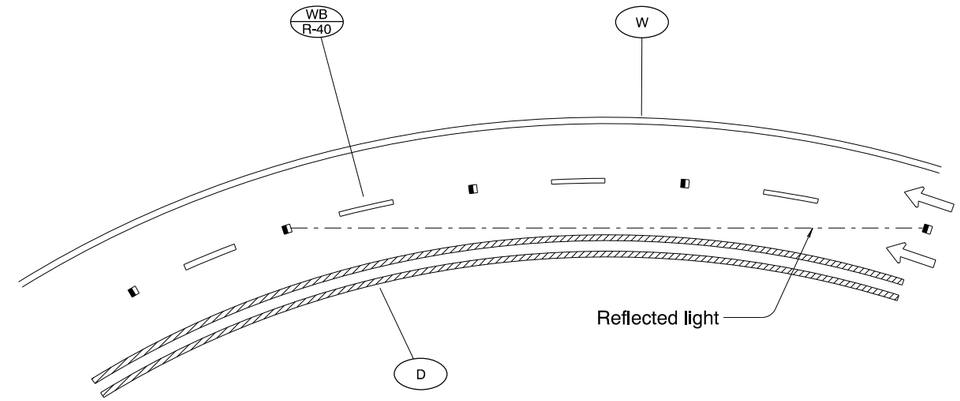
MEDIAN WIDTH TRANSITION

(TWO NARROW DOUBLE YELLOW LINES TO ONE-DIRECTION NO-PASSING LINE)

(Refer to TM539 for additional details)



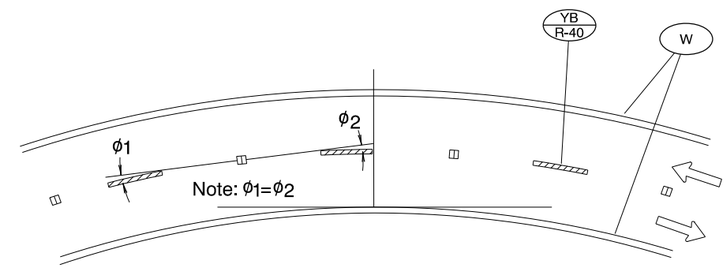
MEDIAN BULLNOSE DETAIL



NOTE:

On one way sections the marker shall be installed with the reflective surface aimed to direct the reflected light back three markers.

(a) PAVEMENT MARKER INSTALLATION FOR MONO-DIRECTIONAL RAISED PAVEMENT MARKERS



(b) PAVEMENT MARKER INSTALLATION FOR BI-DIRECTIONAL RAISED PAVEMENT MARKERS

PAVEMENT MARKER INSTALLATION ON HORIZONTAL CURVES

LEGEND

- Mono-Directional White (marker reflects white to left in this symbol)
- Bi-Directional Yellow (marker reflects yellow to both the left and right in this symbol)
- Increasing stationing from left to right
- Direction of Travel
- ℄ — Lane line dimensions are shown on the striping plans.

To be accompanied by Standard Dwg. Nos. TM500 thru TM504

CALC. BOOK NO. N/A

SDR DATE July 1, 2015

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

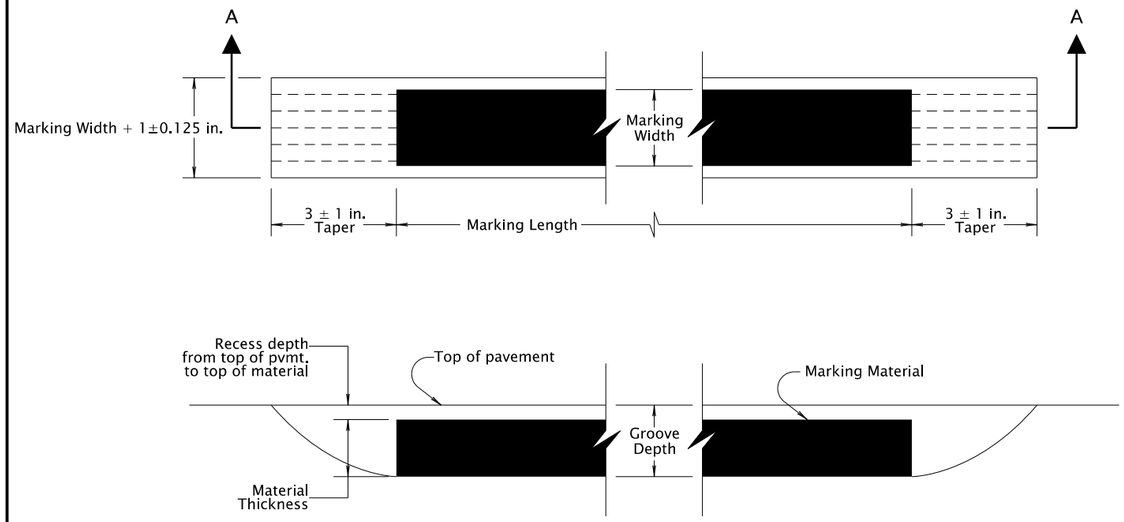
PAVEMENT MARKERS

2021

DATE	REVISION DESCRIPTION
7/10/20	Adjusted detail and changed drawing reference

TM515.dgn 1-3-2017

TM515

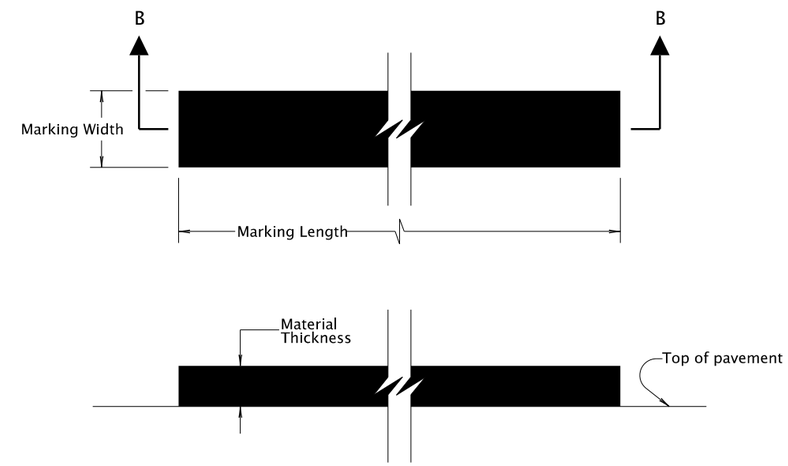


SECTION A – A

GROOVE INSTALLED GROOVE AND MATERIAL DIMENSIONS

Pavement Marking Material Type	Groove Depth	Recess Depth	Material Thickness
Durable Method 'A' & Method 'D'	220 ± 20 mils	45 ± 5 mils	Var.
High Performance	60 ± 10 mils	Var.	25 mils

GROOVE INSTALLED MARKINGS



SECTION B – B

SURFACE INSTALLED MATERIAL THICKNESS

Pavement Marking Material Type	Thickness
Durable Method 'A' & Method 'B' & Method 'D'	120 mils
High Performance	25 mils

SURFACE INSTALLED MARKINGS

General Notes:

1) See Standard Drawing TM500 and/or project plans for marking length and width dimensions.
2) See Standard Specification 00850.46 for marking installation tolerances.

CALC. BOOK NO. N/A

SDR DATE 07/05/2013

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

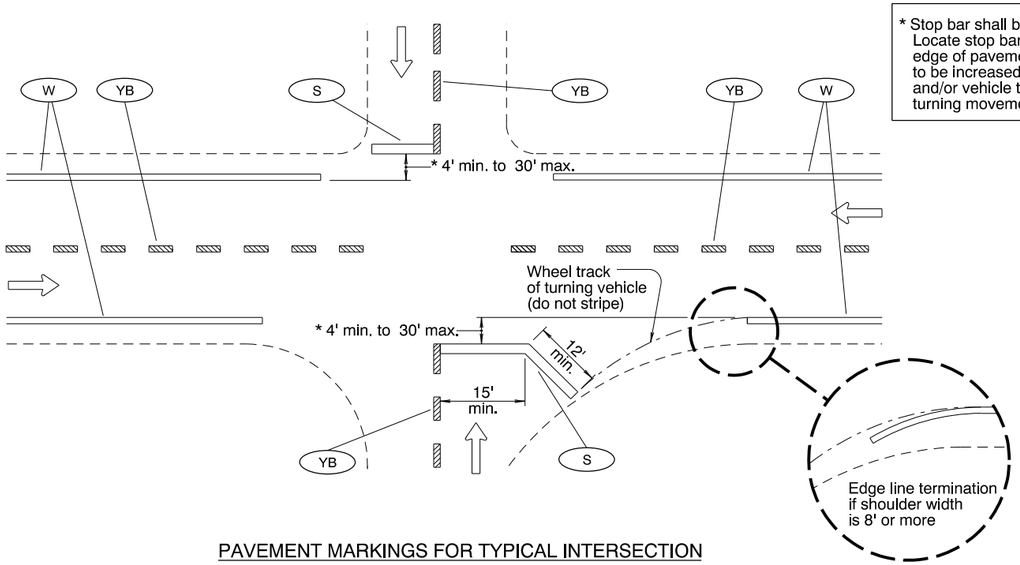
OREGON STANDARD DRAWINGS

DURABLE & HIGH PERFORMANCE PAVEMENT MARKINGS SURFACE & GROOVE INSTALLED NON-PROFILED

2021

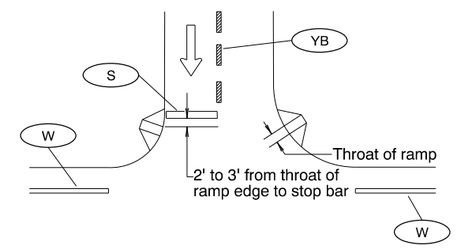
DATE	REVISION DESCRIPTION

TM521

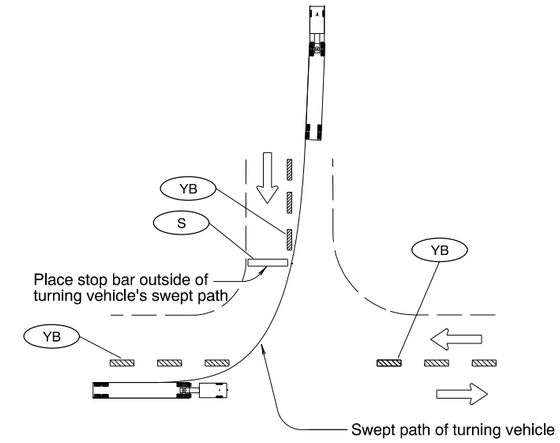


PAVEMENT MARKINGS FOR TYPICAL INTERSECTION

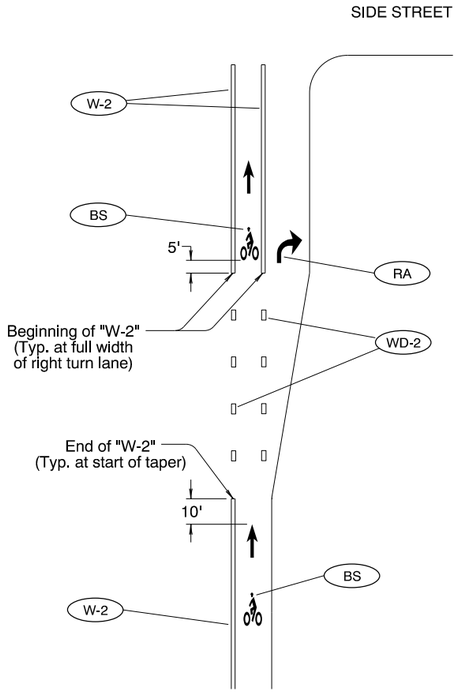
* Stop bar shall be placed as near as possible to the intersecting traveled way. Locate stop bar 4' min. to 30' max. in advance of the extended fog line, edge of pavement, or curb face. Minimum stop bar distance may need to be increased, depending on location of pedestrian ramps (see Detail "A") and/or vehicle turn radii (see Detail "B"). Field verify sight distance and truck turning movements.



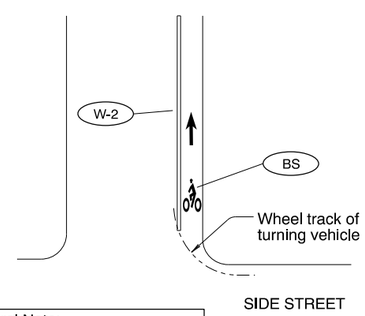
Detail "A"
STOP BAR PLACEMENT WITH
RESPECT TO PEDESTRIAN RAMPS



Detail "B"
STOP BAR PLACEMENT WITH
RESPECT TO TURN RADII



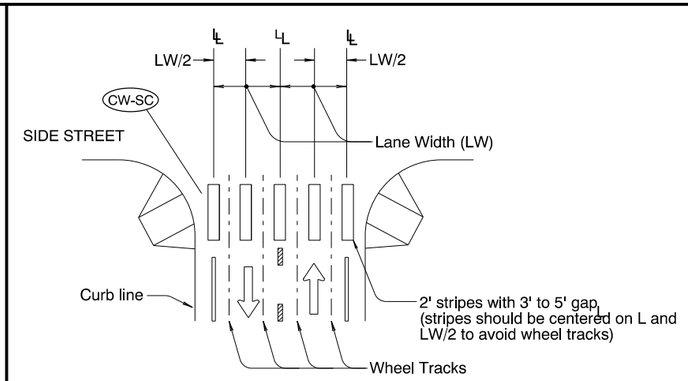
INSTALLATION OF BIKE LANE STENCILS
FOR BIKE LANE SEPARATED BY RIGHT TURN LANE



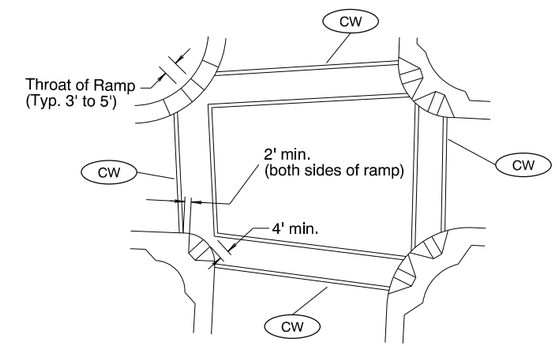
General Note:

Install bike lane stencil to avoid right turning vehicle wheel tracks.

INSTALLATION OF BIKE LANE STENCILS
FOLLOWING INTERSECTIONS



STAGGERED CONTINENTAL LAYOUT



STANDARD CROSSWALK BARS
AT INTERSECTION

To be accompanied by Standard Dwg. Nos. TM500 thru TM504

General Note:

1. Install crosswalk bars such that the throat of the ADA ramp is entirely within crosswalk markings, or 5' back of extended fog line, edge of pavement, or curb face.

LEGEND

Direction of Travel

L - Lane line dimensions are shown on the striping plans

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

CALC. BOOK NO. N/A

SDR DATE July 10, 2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

INTERSECTION PAVEMENT MARKINGS (CROSSWALK, STOP BAR & BIKE LANE STENCIL)

2021

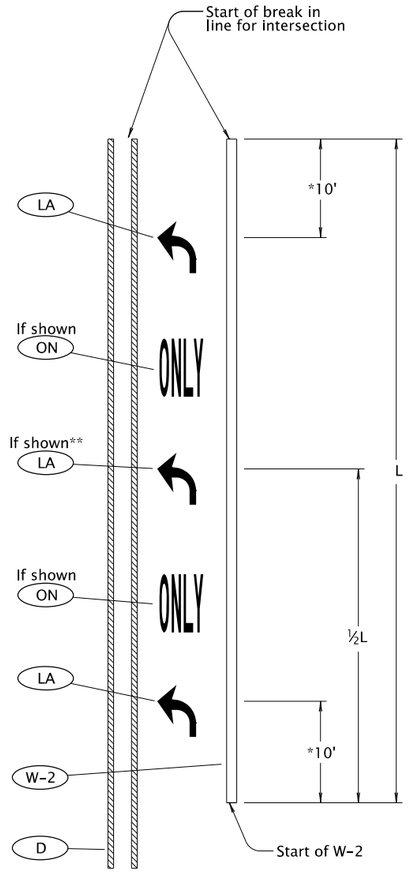
DATE	REVISION DESCRIPTION
7/10/20	Changed drawing reference

TM530.dgn 1-3-2017

TM530

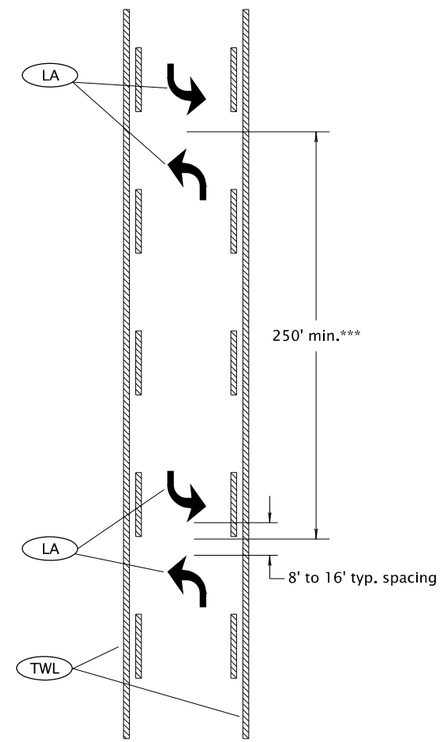
plotfile_TM200s_500s.dgn :: Default 7/30/2020 4:09:47 PM hwyr20m

Effective Date: December 1, 2020 - May 31, 2021



LANE USE ARROW PLACEMENT FOR TURN LANE

DETAIL "A"



TWO-WAY LEFT TURN LANE ARROW PLACEMENT

DETAIL "B"

General Notes:

1) Center pavement marking legends within the lane.

2) Placement of lane use arrows with respect to the 8" wide white line (W-2) channelization shown in Detail "A" applies to both left and right turn lanes.

3) Center "ONLY" markings between lane use arrows.

* 15' when installing elongated arrows.

** When L is greater than 400', install 3rd lane use arrow at ½ L as shown in Detail "A".

*** Double arrows to be placed at even intervals, proportioned within block or as shown.

To be accompanied by Standard Dwg. Nos. TM500 thru TM504

CALC. BOOK NO. N/A

SDR DATE 07/01/2020

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.

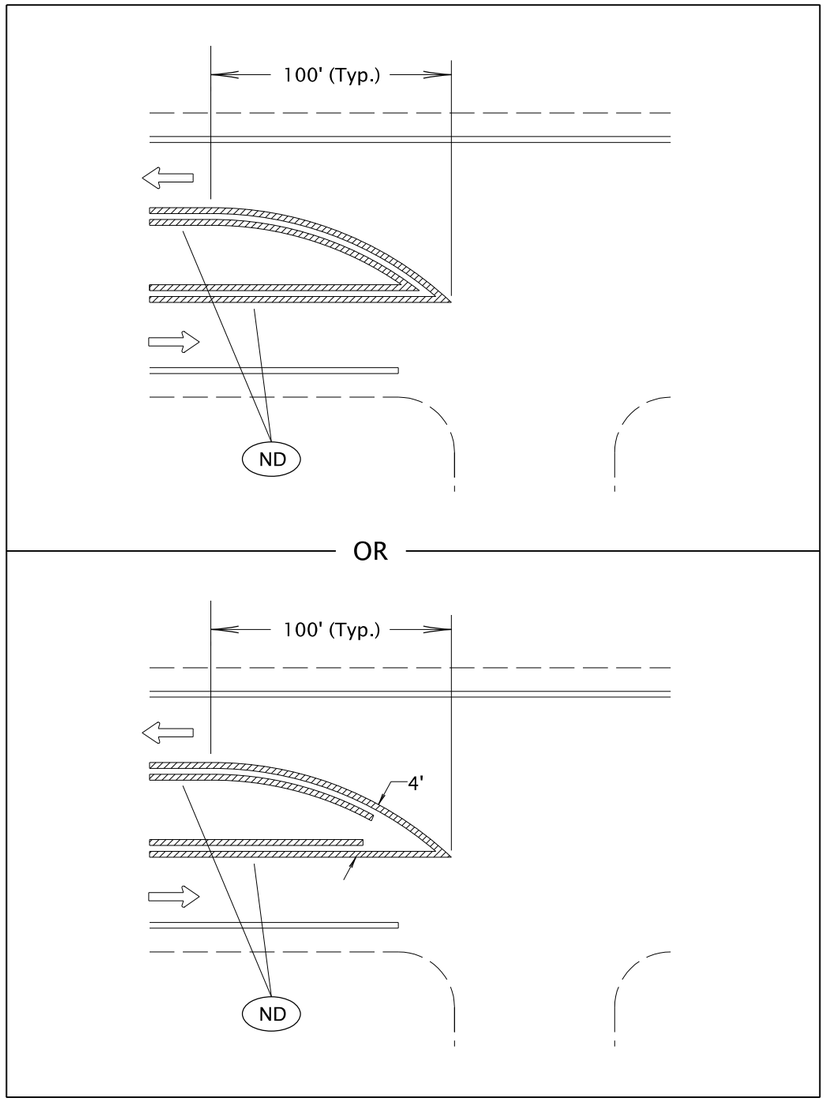
OREGON STANDARD DRAWINGS

TURN ARROW MARKING DETAILS

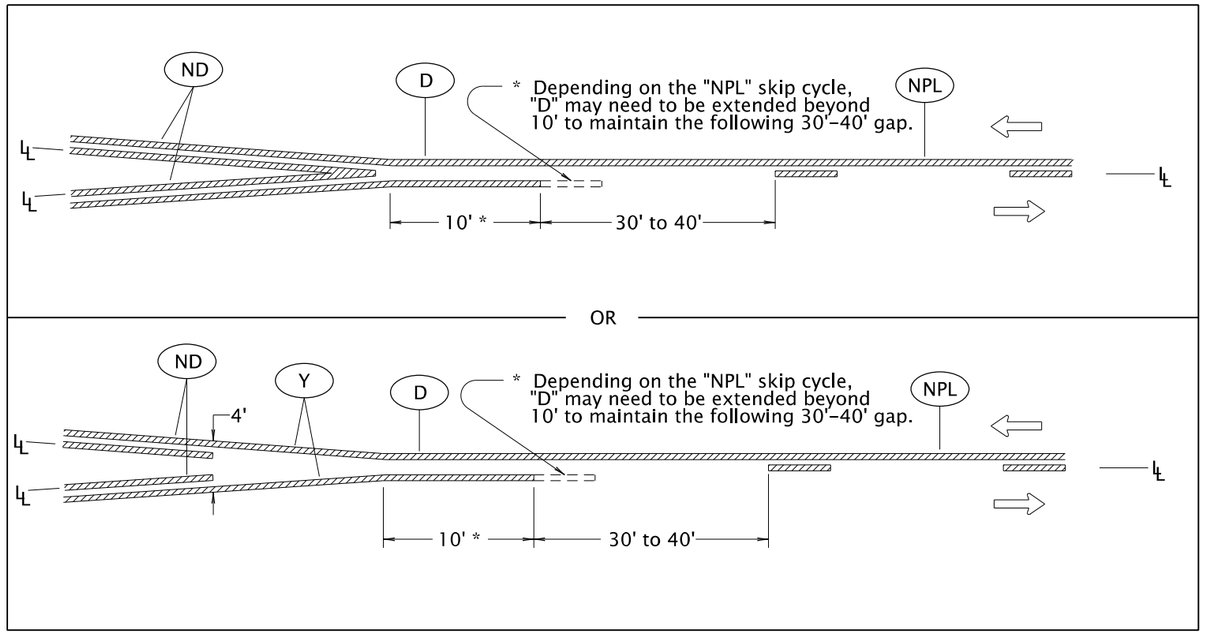
2021

DATE	REVISION DESCRIPTION
07/2020	Extended accompanied by drawings to include TM504

TM531



MEDIAN BULLNOSE DETAIL



MEDIAN WIDTH TRANSITION
(TWO NARROW DOUBLE YELLOW LINES TO ONE-DIRECTION NO-PASSING LINE)

LEGEND

Increasing stationing from left to right

Direction of Travel

Lane line dimensions are shown on the striping plans

To be accompanied by Standard Dwg. Nos. TM500 thru TM504

CALC. BOOK NO. N/A

SDR DATE 07/01/2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.

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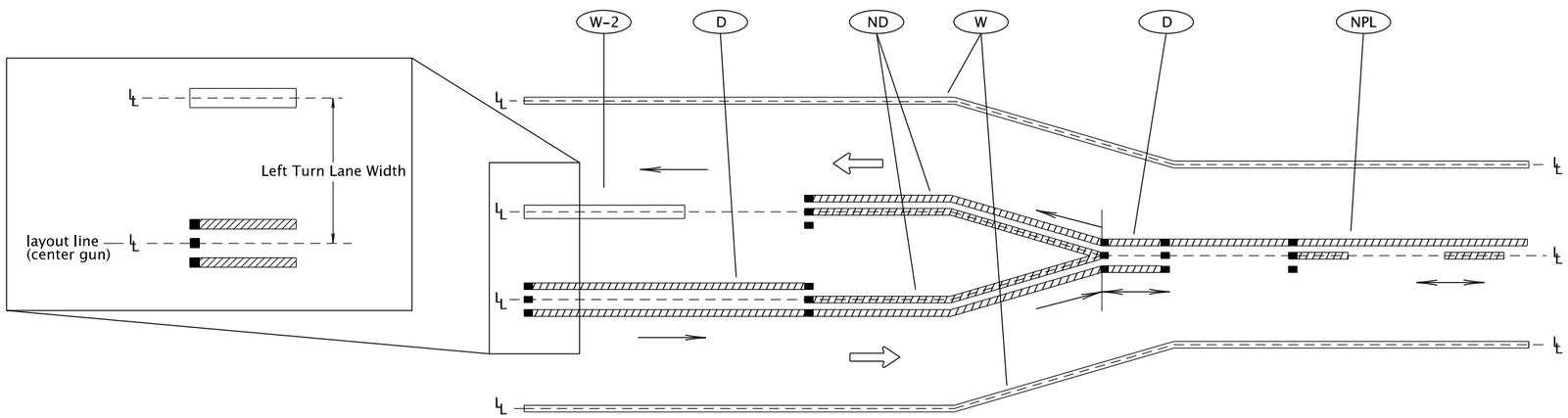
OREGON STANDARD DRAWINGS

MEDIAN AND LEFT TURN CHANNELIZATION DETAILS

2021

DATE	REVISION DESCRIPTION
07/2020	Extended accompanied by drawings to include TM504

TM539



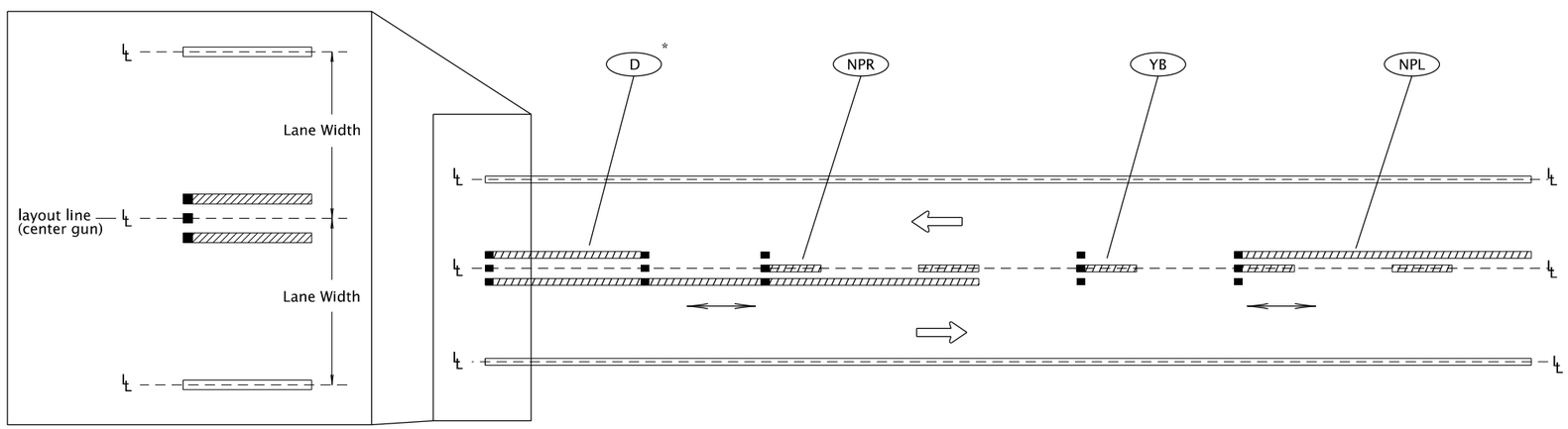
LEFT TURN LANE ALIGNMENT LAYOUT

General note:

1) Install control points for pavement marking alignment layout along the center gun location.
2) Increasing stationing from left to right

LEGEND

- Direction Of Travel and Thru Traffic Side.
- Lane line dimensions are shown on the striping plans.
- Direction of striping truck (may go either direction)
- Direction of striping truck (may go one direction only)
- Three gun installation system (center dot represents center gun)

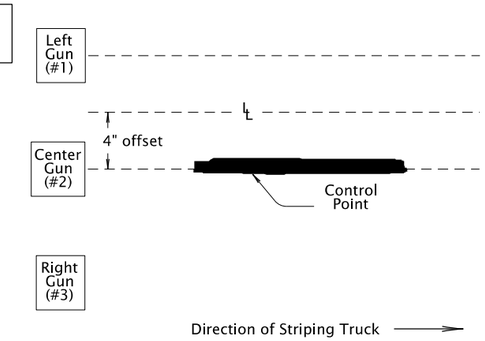


CENTERLINE ALIGNMENT LAYOUT

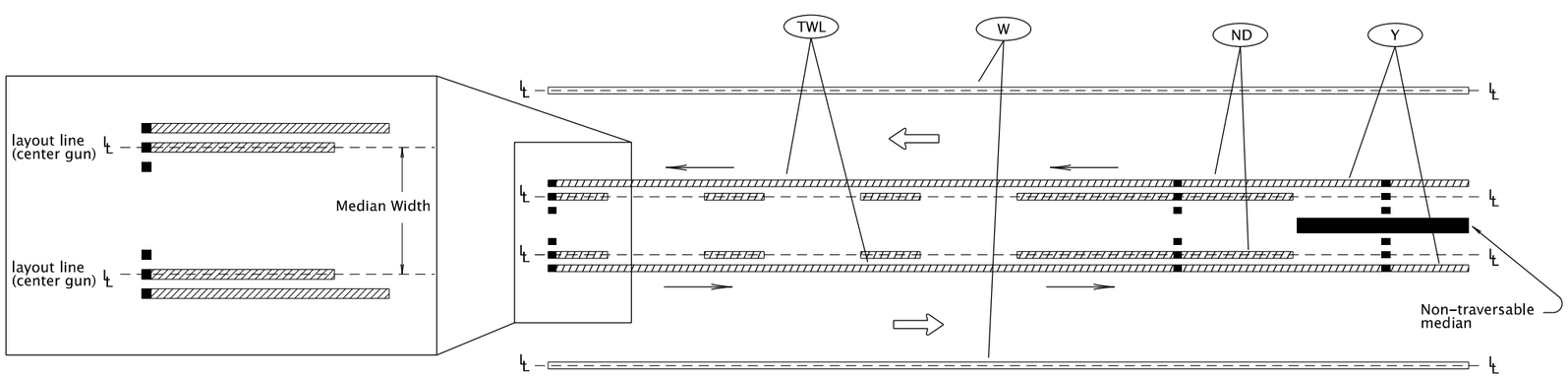
*When ND is used as centerline markings, a control point layout 4" offset from the lane line is required.

Line Types requiring control points to be 4" offset from lane line:

ND
For centerlines only



4" Offset of Lane Line and Center Gun



MEDIAN ALIGNMENT LAYOUT

To be accompanied by Standard Dwg. Nos. TM500 thru TM504

CALC. BOOK NO. N/A

SDR DATE 07/01/2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.

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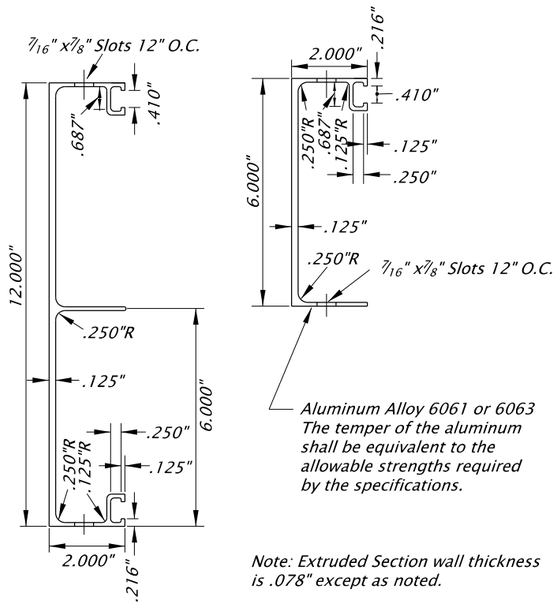
OREGON STANDARD DRAWINGS

ALIGNMENT LAYOUT: LEFT TURN LANE, CENTERLINE & MEDIANS

2021

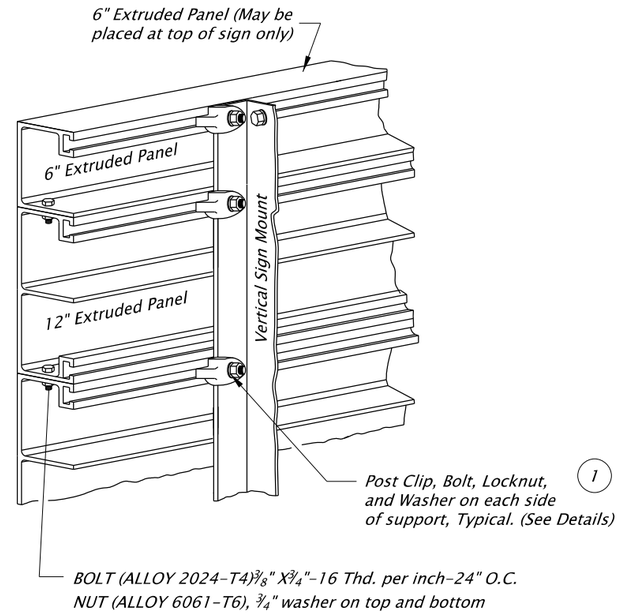
DATE	REVISION DESCRIPTION
07/2020	Extended accompanied by drawings to include TM504

TM561

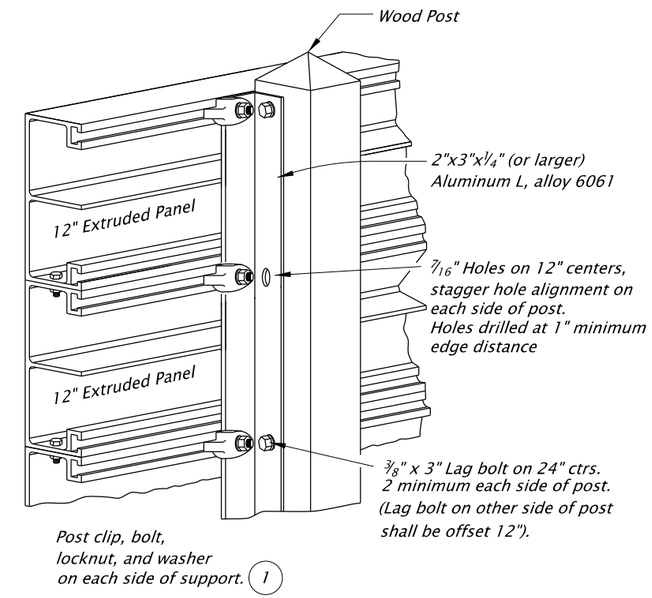


Note: Extruded Section wall thickness is .078" except as noted.

SIGN PANELS & DETAILS

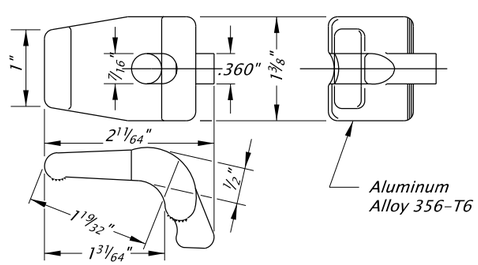


SIGN PANELS ON METAL STRUCTURES
No Scale

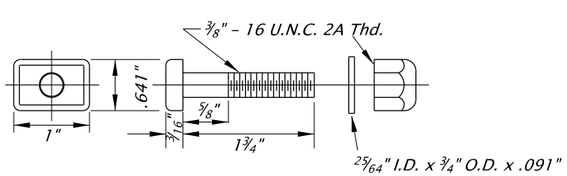


SIGN PANELS ON WOOD POSTS
No Scale

(1) Note:
The locking feature of the nut shall be a nylon insert.

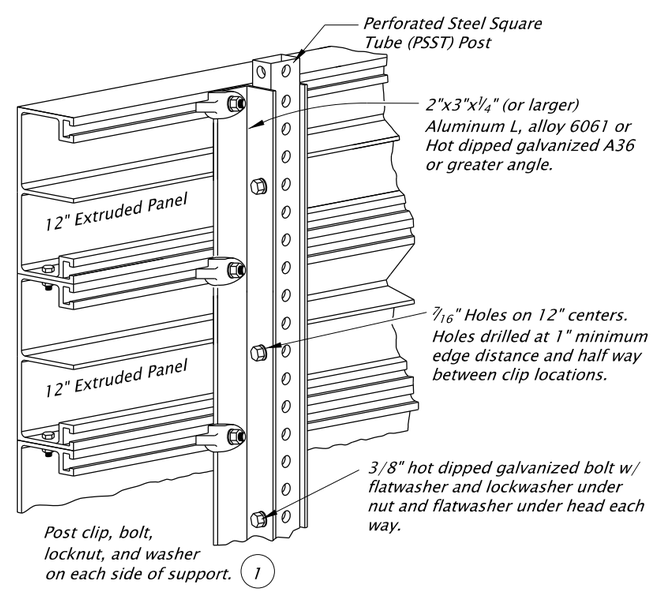


POST CLIP DETAIL

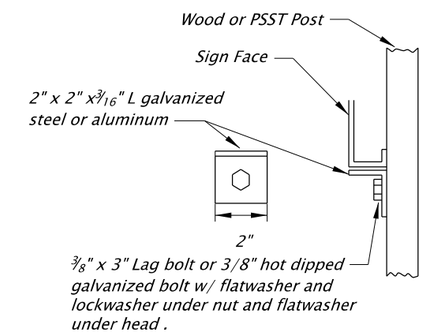


ALUMINUM ALLOYS; BOLT 2024-T4 (1)
LOCKNUT 6061-T6
WASHER (No alloy specified)

POST CLIP BOLT, NUT, & WASHER DETAIL



SIGN PANELS ON PERFORATED STEEL SQUARE TUBE (PSST) POSTS
No Scale



SIGN SUPPORT BRACKET DETAIL
1 Required per post

CALC. BOOK NO. _____ SDR DATE 06-JAN-2017

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

EXTRUDED ALUMINUM PANELS

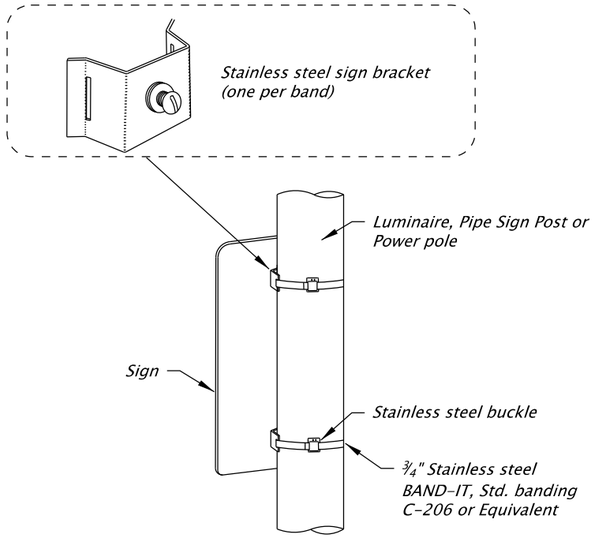
2021

DATE	REVISION DESCRIPTION

tm675.dgn 10-JUL-2020

TM675

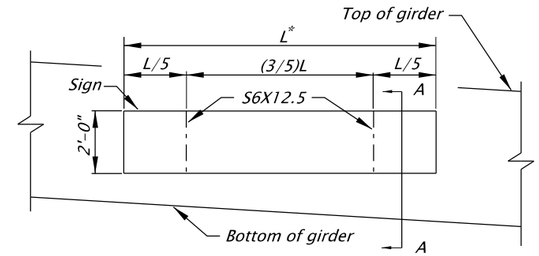
Effective Date: December 1, 2020 – May 31, 2021



Signs mounted to vertical posts that use stainless steel clamps shall not be wider than 36". Use 2 clamps for all signs less than 48" in height and 3 clamps for signs 48" to 60" in height.

STAINLESS STEEL CLAMP (SSC) DETAIL

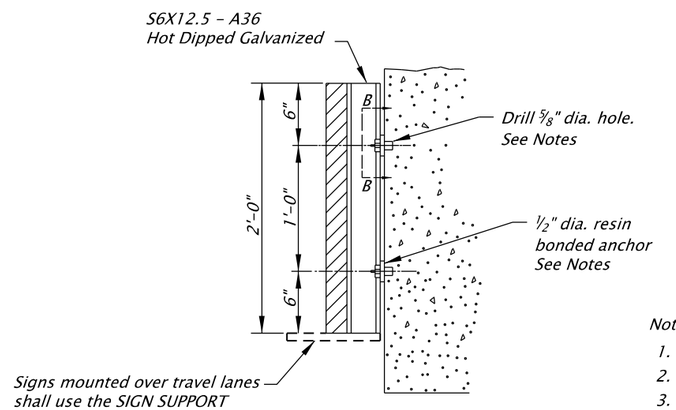
No Scale



** - L maximum is 14'-0".*

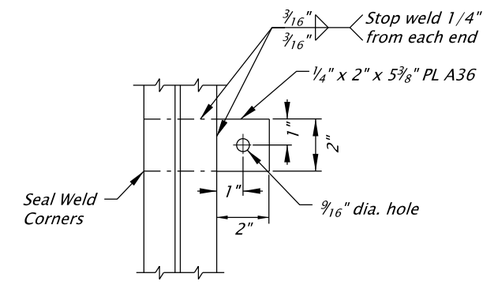
SIGN ELEVATION

No Scale



SECTION A-A

No Scale



SECTION B-B

No Scale

Notes:

1. *Install resin bonded anchors according to Section 00535.*
2. *Resin bonded anchors shall conform to ASTM A307.*
3. *The hole depths shall develop the pullout strength specified in Table 00535-1.*
4. *Tighten 1/2" dia. anchors using 16 ft-lb of torque for waxed galvanized and 40 ft-lb of torque for galvanized only connections.*

ROAD NAME SIGN STRUCTURE MOUNT DETAIL

GENERAL NOTES

1. *For Secondary Sign Mounts See TM678.*

CALC. BOOK NO. _____	SDR DATE 06-JUL-2015
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
	OREGON STANDARD DRAWINGS
	SIGN MOUNTS
	2021

DATE	REVISION DESCRIPTION

tm677.dgn 10-JUL-2020

TM677

TAPER TYPES & FORMULAS	
TAPER	FORMULA
Merging (Lane Closure)	"L"
Shifting	"L"/2 or ½"L"
Shoulder Closure	"L"/3 or ⅓"L"
Flagging (See Drg. TM850)	50' - 100'
Downstream (Termination)	Varies (See Drawings)

★ Use Pre-Construction Posted Speed to select the Speed from the Tables below:

TEMPORARY BARRIER FLARE RATE TABLE	
★SPEED (mph)	MINIMUM FLARE RATE
≤ 30	8:1
35	9:1
40	10:1
45	12:1
50	14:1
55	16:1
60	18:1
65	19:1
70	20:1

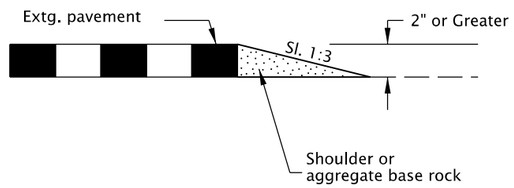
MINIMUM LENGTHS TABLE					
"L" VALUE FOR TAPERS (ft)					BUFFER "B" (ft)
★ SPEED (mph)	W = Lane or Shoulder Width being closed or shifted				
	W ≤ 10	W = 12	W = 14	W = 16	
25	105	125	145	165	75
30	150	180	210	240	100
35	205	245	285	325	125
40	265	320	375	430	150
45	450	540	630	720	180
50	500	600	700	800	210
55	550	660	770	880	250
60	600	720	840	960	285
65	650	780	910	1000	325
70	700	840	980	1000	365
FREEWAYS					
55	1000	1000	1000	1000	250
60	1000	1000	1000	1000	285
65	1000	1000	1000	1000	325
70	1000	1000	1000	1000	365

NOTES:
- For Lane closures where W < 10', use "L" value for W = 10'.
- For Shoulder closures where W < 10', use "L" value for W = 10' or calculate "L" using formula, for Speeds ≥ 45: L = WS, Speeds < 45: L = $S^2W/60$, S = Speed, W=Width

TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE				
★ SPEED (mph)	Sign Spacing (ft)			Max. Channelizing Device Spacing (ft)
	A	B	C	
20 - 30	100	100	100	20
35 - 40	350	350	350	20
45 - 55	500	500	500	40
60 - 70	700	700	700	40
Freeway	1000	1500	2640	40

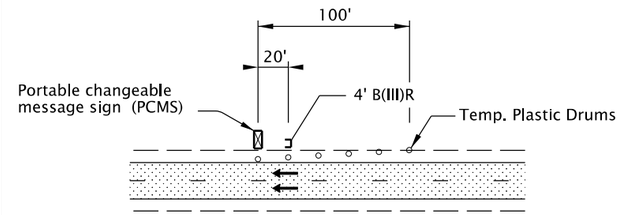
NOTES:
- Place traffic control devices on 10 ft. spacing for intersection and access radii.
- When necessary, sign spacing may be adjusted to fit site conditions. Limit spacing adjustments to 30% of the "A" dimension for all speeds.

NOTES:
- When paved shoulders adjacent to excavations are less than four feet wide protect longitudinal abrupt edge as shown.
- Use aggregate wedge when abrupt edge is 2 inches or greater.



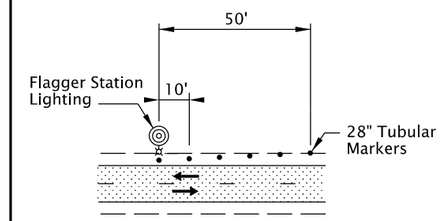
EXCAVATION ABRUPT EDGE

NOTES:
- Install PCMS beyond the outside shoulder, when possible.
- Use the appropriate type of barricade panels for PCMS location. Right shoulder, use Type B(III)R Left shoulder, use Type B(III)L
- Use six drums in shoulder taper on 20' spacing. The drums and barricade may be omitted when PCMS is placed behind a roadside barrier.
- Detail as shown is used for trailered and non-crashworthy components of:
  - Portable Traffic Signals
  - Smart Work Zone Systems



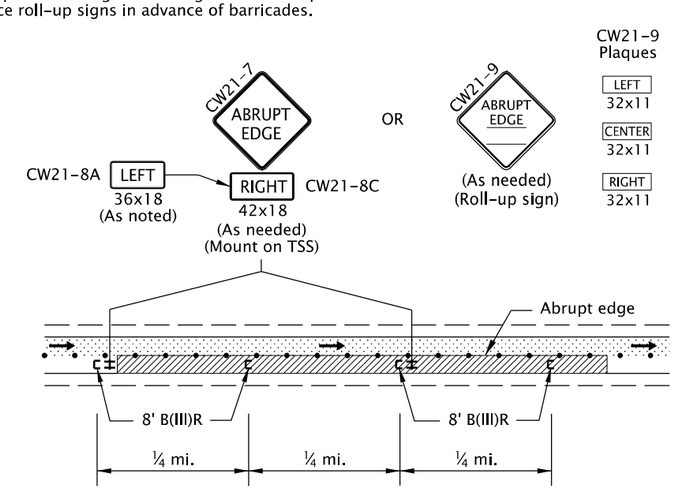
PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) INSTALLATION

NOTES:
- Install Flagger Station Lighting beyond the outside shoulder, where practical.
- Use six tubular markers in shoulder taper on 10' spacing.
- Place cart / generator / power supply off of the shoulder, as far as practical.



FLAGGER STATION LIGHTING DELINEATION

NOTES:
- Abrupt edges may be created by paving, operations, excavations or other roadway work. Use abrupt edge signing for longitudinal abrupt edges of 1 inch or greater.
- If the excavation is located on left side of traffic, replace the 8' B(III)R barricades with 8' B(III)L barricades and replace the "RIGHT" (CW21-8C) riders with "LEFT" (CW21-8A) riders.
- Continue signing and other traffic control devices throughout excavation area at spacings shown.
- If roll-up signs are used, attach the correct (CW21-9) plaques to the sign face using hook and loop fasteners. Place roll-up signs in advance of barricades.



TYPICAL ABRUPT EDGE DELINEATION

GENERAL NOTES FOR ALL TCP DRAWINGS:
- Signs and other Traffic Control Devices (TCD) shown are the minimum required.
- Place a barricade approx. 20' ahead of all sequential arrow boards.
- Arrows shown in roadway are directional arrows to indicate traffic movements.
- All signs are 48" x 48" unless otherwise shown. Use flourescent orange sheeting for the background of all temporary warning signs.
- All diamond shaped warning signs mounted on barrier sign supports shall be 36" by 36". All other signs mounted on barrier sign supports shall not exceed 12 sq. ft. in total sign area.
- Low speed highways have a pre-construction posted speed of 40 mph or less. High speed highways have a pre-construction posted speed of 45 mph or higher.
- Do not locate sign supports in locations designated for bicycle or pedestrian traffic.
- Combine drawing details to complete temporary traffic control for each work activity.
- To be accompanied by Dwg. Nos. TM820 & TM821.

○ ○ ○ Temp. Plastic Drums See TCD Spacing Table for max. spacing.

• • • 28" Tubular Markers See TCD Spacing Table for max. spacing.

UNDER TRAFFIC

UNDER CONSTRUCTION

CALC. BOOK NO. TM09-01

SDR DATE 01-JUL-2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

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OREGON STANDARD DRAWINGS

TABLES, ABRUBT EDGE AND PCMS DETAILS

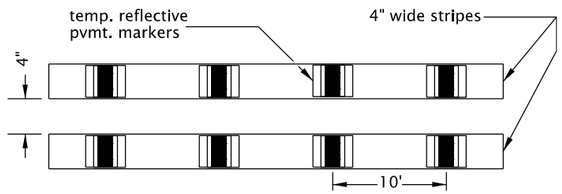
2021

DATE	REVISION DESCRIPTION

tm800.dgn 01-JUL-2020

TM800

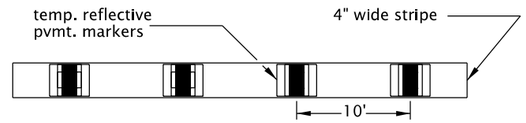
Effective Date: December 1, 2020 - May 31, 2021



LAYOUT "A"
(Supplemented double solid lines)

TYPICAL APPLICATIONS:

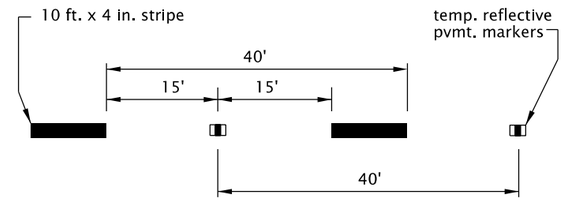
- To prohibit lane changes or passing (include appropriate regulatory signs).
- Freeway or multilane shifts and crossovers.
- For projects in place through winter months.
- Two-lane, two-way centerlines.



LAYOUT "B"
(Supplemented solid line)

TYPICAL APPLICATIONS:

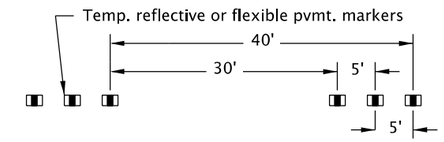
- Alignment shifts or crossovers.
- To discourage lane changes in multilane sections.
- For projects in place through winter months.



LAYOUT "C"
(Supplemented broken lines)

TYPICAL APPLICATIONS:

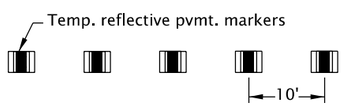
- Freeway and multilane broken lines.
- High ADT 2 lane roads (greater than 10,000).
- For projects in place through winter months.



LAYOUT "D"
(Simulated broken lines)

TYPICAL APPLICATIONS:

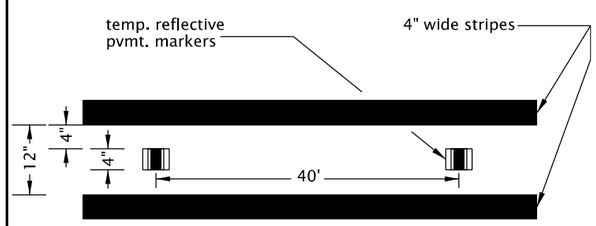
- During staging on finished/existing surfaces.
- HMAC intermediate surfaces.
- Emulsified asphalt surface treatments (chip seals) where permanent pavement markings cannot be placed within two weeks.



LAYOUT "E"
(Simulated Solid Lines)

TYPICAL APPLICATIONS:

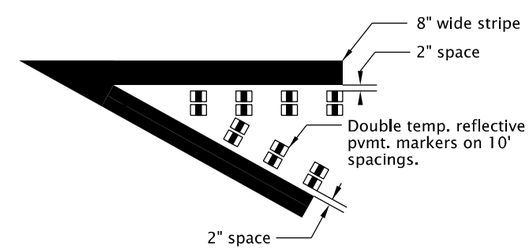
- Alignment shifts or crossovers.
- To discourage lane changes in multilane sections.
- Edge lines for short durations, less than 14 days.



LAYOUT "F"
(Supplemented wide double solid lines)

TYPICAL APPLICATIONS:

- To prohibit lane changes or passing (include appropriate regulatory signs).
- 2 lane, 2 way centerlines.
- 2 lane, 1 way alignments on freeways or multi-lane highways.



LAYOUT "G"
(Supplemented solid 8" line)

TYPICAL APPLICATIONS:

- Gore areas
- Alignment splits (bifurcations)

GENERAL NOTES FOR ALL DETAILS:

- When using Supplemented or Simulated lines:
  1. Yellow Bi-Directional Pavement Markers are required for Two-Way Traffic.
  2. White Mono-Directional Pavement Markers are required for one-way traffic or edge lines.
- Supplemented lines are painted lines enhanced with Reflective Pavement Markers.
- Simulated lines are Reflective Pavement Markers placed in a pattern to substitute for a painted line.
- Pavement marking colors shall conform to the MUTCD.

CALC. BOOK NO. N/A

SDR DATE 01-JUL-2020

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OREGON STANDARD DRAWINGS

TEMPORARY PAVEMENT MARKINGS

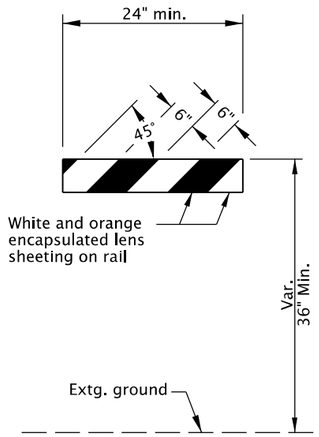
2021

DATE	REVISION DESCRIPTION

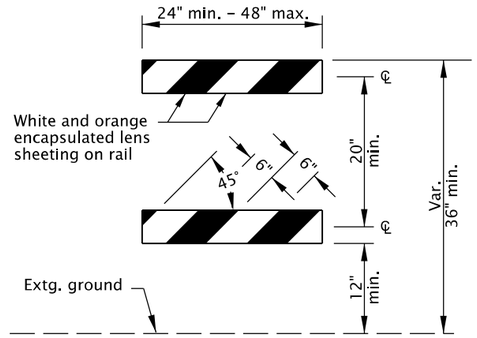
tm810.dgn 01-JUL-2020

TM810

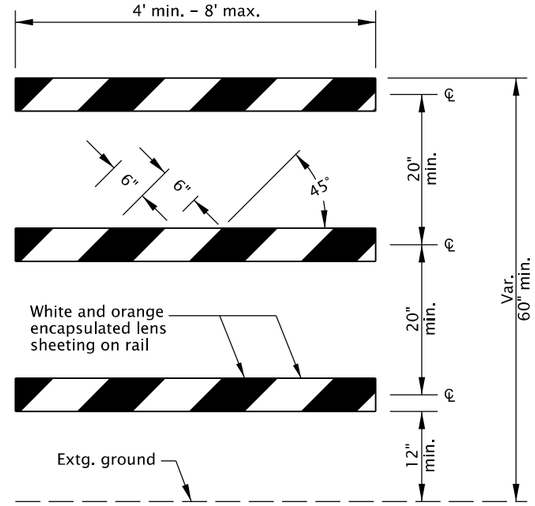
Effective Date: December 1, 2020 - May 31, 2021



TYPE I



TYPE II



TYPE III

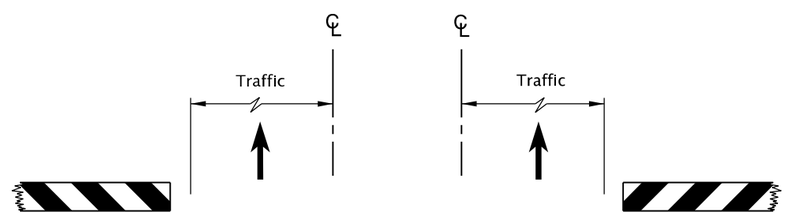
BARRICADE RAIL LAYOUT

GENERAL NOTES FOR ALL DETAILS:

- Sandbags (approximately 25 lb sack filled with sand) may be placed on lower frame to provide additional ballast.
- Ballast shall not extend above bottom rail or be suspended from barricade.
- For rails less than 36" long, 4" wide stripes shall be used.
- Rails must be 8" min. to 12" max. in height.
- Use barricades from ODOT Qualified Products List (QPL).
- Use 4' Type III barricades where horizontal space is limited.
- Do not block bike lanes or shoulders unless the facility is properly closed and signed.
- Do not place barricades in sidewalks unless sidewalk is closed and a temporary pedestrian accessible route (TPAR) is signed according to the TCP. See Dwg. No. TM844.

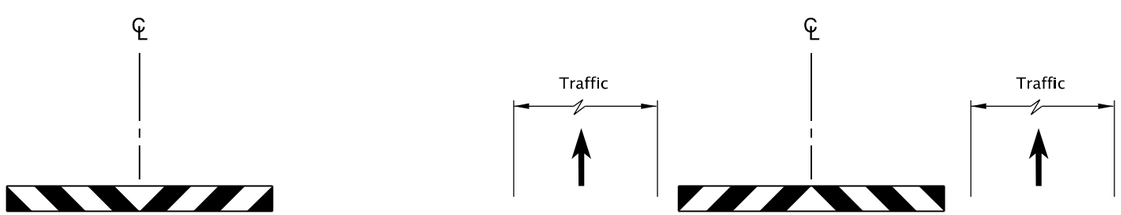
NOTES:

- Markings for barricade rails shall slope downward at an angle of 45° in the direction traffic is to pass.
- Where a barricade extends entirely across a roadway, it is desirable that the stripes slope downward in the direction toward which traffic must turn in detouring.
- Where both right and left turns are provided for, slope the chevron striping downward in both directions from the center of the barricade.
- For full roadway closures, the C or LR barricade may be used. Extend barricades completely across roadway unless access is required for local road users.



LT. SIDE - L
(For approaching traffic)

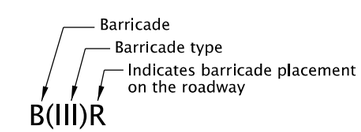
RT. SIDE - R
(For approaching traffic)



CLOSED - C
(For approaching traffic)

LT. / RT. - LR
(For approaching traffic)

DIAGRAM FOR BARRICADE PLACEMENT AND SLOPE MARKING



BARRICADE NOTATION

CALC. BOOK NO. N/A

SDR DATE 01-JUL-2020

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OREGON STANDARD DRAWINGS

TEMPORARY BARRICADES

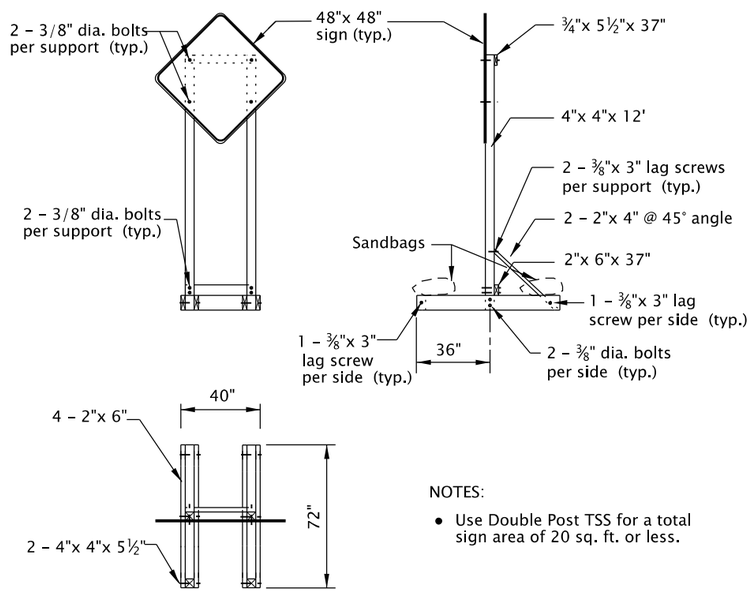
2021

DATE	REVISION DESCRIPTION

tm820.dgn 01-JUL-2020

TM820

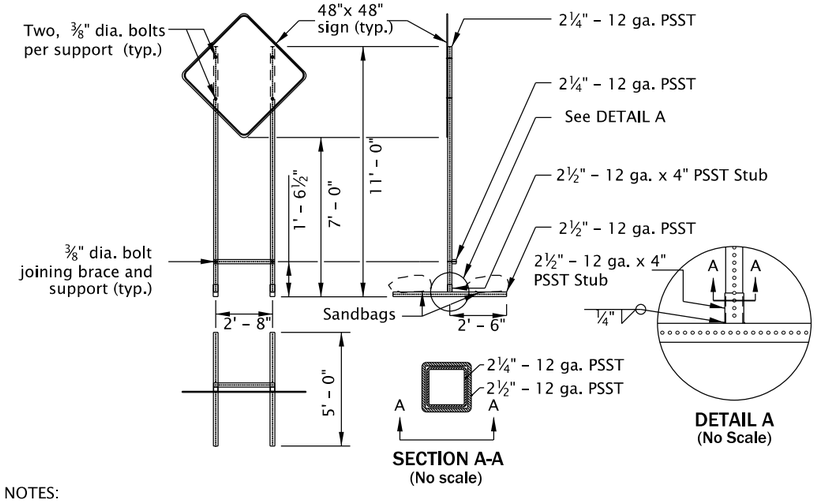
Effective Date: December 1, 2020 - May 31, 2021



NOTES:

- Use Double Post TSS for a total sign area of 20 sq. ft. or less.

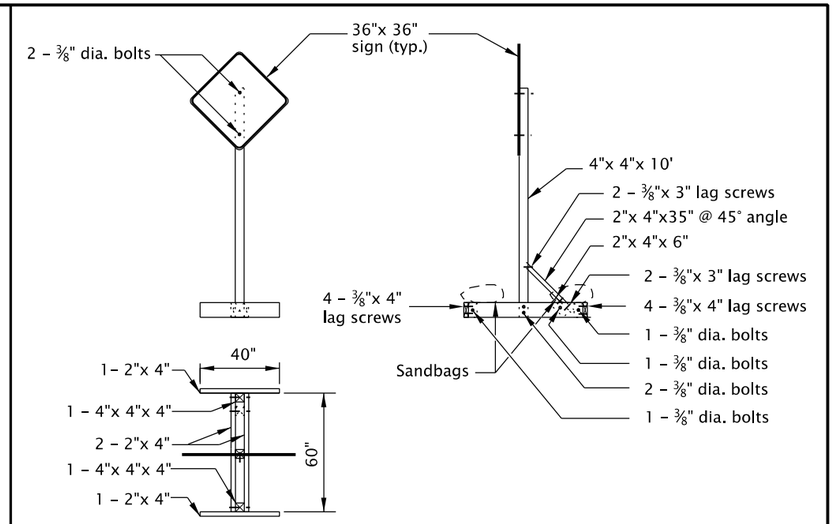
DOUBLE POST DETAIL



NOTES:

- Use PSST TSS's for a total sign area of 16 sq. ft. or less.
- All members shall have a minimum yield stress of 50 ksi.
- Galvanize steel according to ASTM A653 with coating designation G90. Remove Galvanizing from steel before welding. Repair Galvanizing according to ASTM A780.
- Use A325 Bolts or equivalent.
- 2¼" - 12 ga. PSST to extend entire length inside of the 2½" - 12 ga. x 4" PSST Stub.
- Do not use bolt to secure 2¼" PSST inside of the 2½" - 12 ga. x 4" PSST Stub.
- Weld steel according to American Welding Society (AWS) D.1.1.

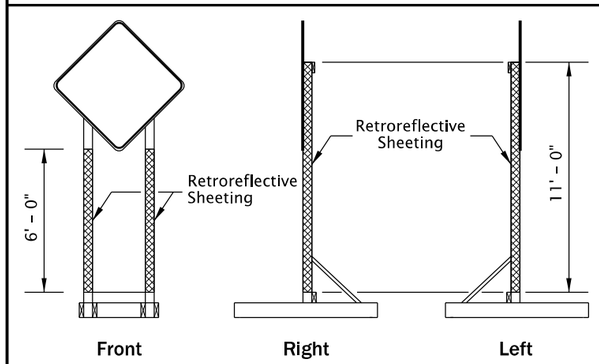
PERFORATED STEEL SQUARE TUBE (PSST) DETAIL



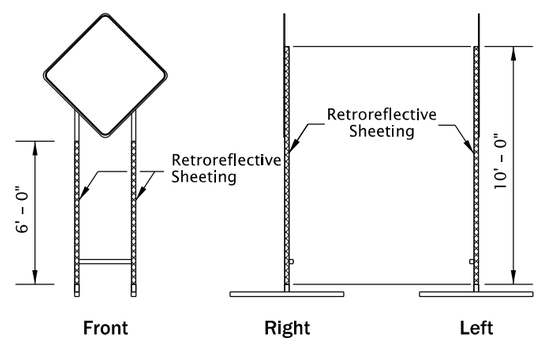
NOTES:

- Use Single Post TSS for a total sign area of 12 sq. ft. or less.
- Use Single Post TSS for mounting "Business Access" (CG20-11) signs. Do not mount signs on Type II or III Barricades.

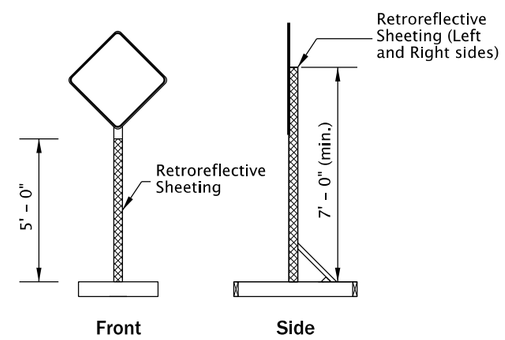
SINGLE POST DETAIL



Double Post



Perforated Steel Square Tube (PSST)



Single Post

TEMPORARY SIGN SUPPORT GENERAL NOTES:

- Do not tip over TSS at any time.
- Do not locate TSS's in locations that block pedestrian or bicycle traffic.
- For wooden TSS's, use either Douglas Fir or Hem Fir, which is surfaced four sides (S4S) and free of heart center (FOHC).
- See "Temporary Sign Placement" detail on TM822 for sign installation heights.
- Do not place or stack ballast more than 24" above the ground.
- When sign is inconsistent with current work zone conditions, cover sign: or turn sign 90 degrees away from approaching traffic. Remove TSS from roadway when signing is not needed for more than 3 days.
- Place a minimum of 50 lbs of sandbags on each of the four TSS supports legs. (25 lb. max per bag) (min. 100 lbs per side of each TSS).
- See Dwg. No. TM204 for flag board mounting detail.

NOTES:

- Apply fluorescent orange, ANSI Type VIII or IX retroreflective sheeting to TSS posts, as shown, for all temporary signs, except "STOP" and "DO NOT ENTER". For "STOP" and "DO NOT ENTER" signs, used red ANSI Type III or IV retroreflective sheeting on the TSS posts.
- Apply sign post retroreflectivity to each TSS post facing front; and to the left and right sides of the TSS, as shown. Use 3" wide sheeting for wood post TSS's. Use 2" wide sheeting for PSST TSS's.
- Sheeting may be applied directly to post material; or applied to a rigid, lightweight substrate, then securely attached to the posts.

SIGN POST REFLECTIVE SHEETING PLACEMENT

CALC. BOOK NO. N/A

SDR DATE 01-JUL-2020

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OREGON STANDARD DRAWINGS

TEMPORARY SIGN SUPPORTS

2021

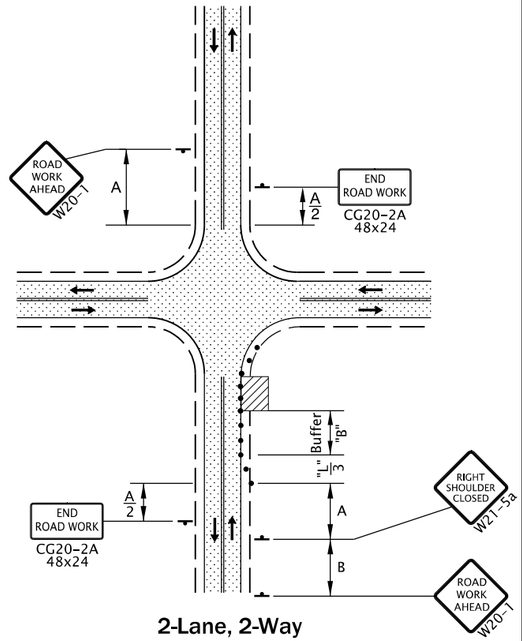
DATE	REVISION DESCRIPTION

Effective Date: December 1, 2020 - May 31, 2021

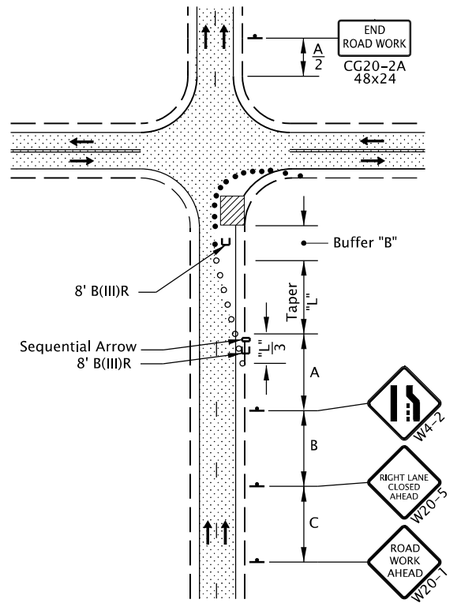
TM821

tm821.dgn 01-JUL-2020

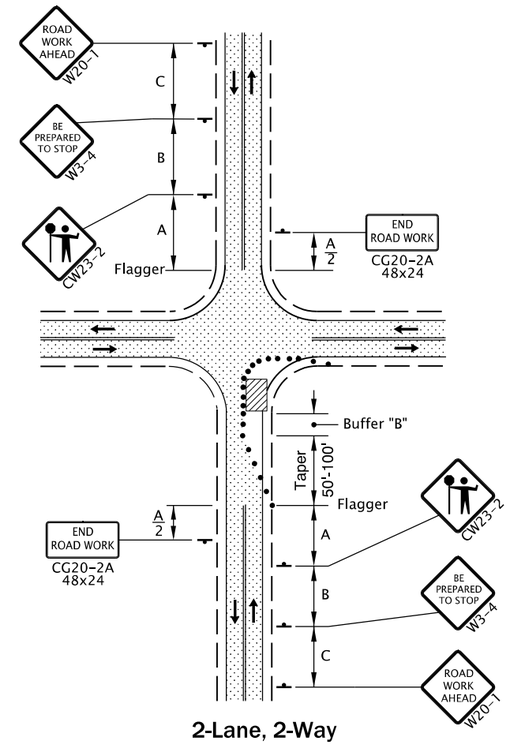
TM821



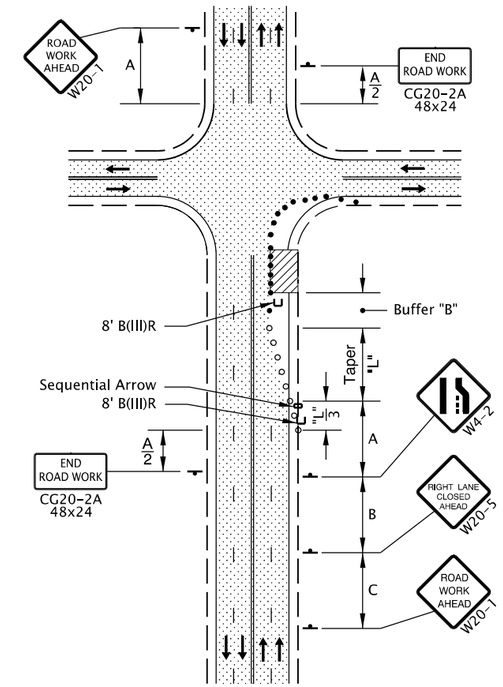
2-Lane, 2-Way
SHOULDER CLOSURE



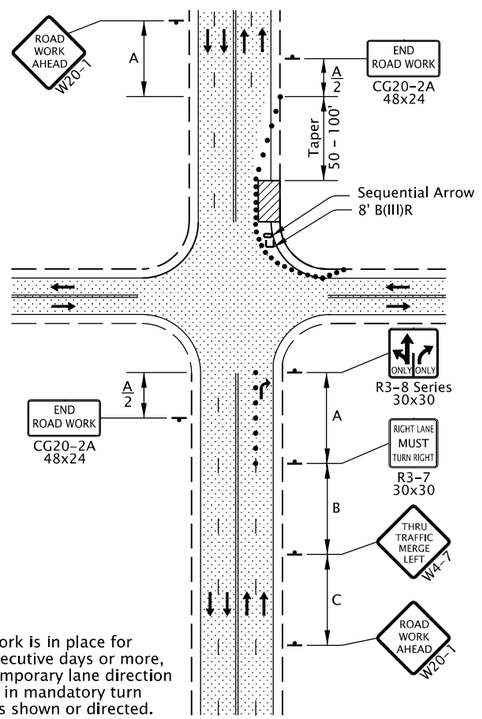
2-LANE, 1-WAY
RIGHT LANE CLOSURE



2-Lane, 2-Way
ONE LANE CLOSURE



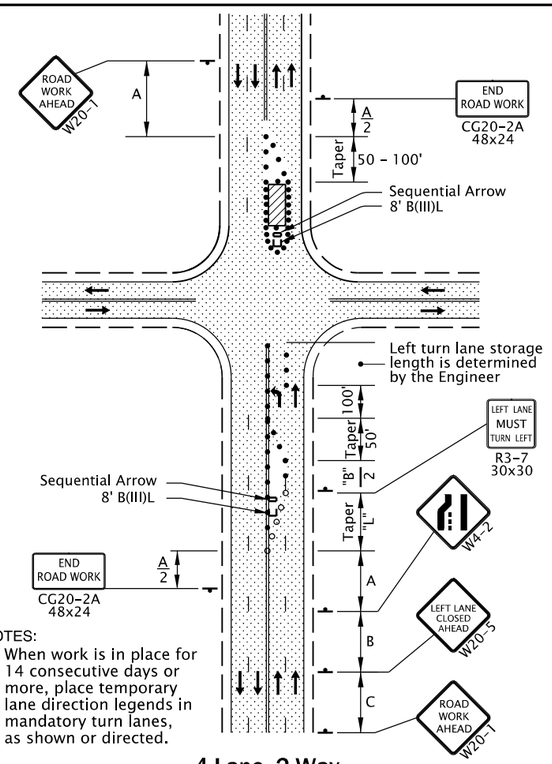
4-Lane, 2-Way
RIGHT LANE CLOSURE, NEAR SIDE



NOTES:

- When work is in place for 14 consecutive days or more, place temporary lane direction legends in mandatory turn lanes, as shown or directed.

4-Lane, 2-Way
RIGHT LANE CLOSURE, FAR SIDE



NOTES:

- When work is in place for 14 consecutive days or more, place temporary lane direction legends in mandatory turn lanes, as shown or directed.

4-Lane, 2-Way
LEFT LANE CLOSURE, FAR SIDE

GENERAL NOTES FOR ALL DETAILS:

- Additional Traffic Control Measures (TCM) may be required for all legs of the intersection.
- The "FLAGGER" (CW23-2) symbol sign shall be used only in conjunction with the "BE PREPARED TO STOP" (W3-4) sign.
- To determine Taper Length ("L") and Buffer Length ("B"), use the "MINIMUM LENGTHS TABLE" on Dwg. TM800.
- For left lane or shoulder work, place TCD to close left lane or shoulder. Use "LEFT LANE CLOSED AHEAD" (W20-5) sign, "LEFT LANE ENDS" (W4-2L) symbol sign, or "LEFT SHOULDER CLOSED" (W21-5a) sign, where applicable.
- To determine sign spacing A, B, and C, use "TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE" on Dwg. TM800.
- When a through road intersects within the work zone, place a "ROAD WORK AHEAD" (W20-1) sign in advance of the intersection at sign spacing A.
- Tubular markers may be used in lane closure tapers where posted speed is 40 mph or less.
- Where shoulder width is limited, Sequential Arrow may be placed within the lane closure taper.
- Place channelizing devices around intersection radii, business accesses and driveways at 10' spacing.
- Install a "BICYCLES ON ROADWAY" (CW11-1) sign in advance of the closure when a bike lane is closed, or when the shoulder is closed and bikes are expected.
- To be accompanied by Dwg. Nos. TM820, TM821 & TM840.

• • • • • 28" Tubular Markers
See TCD Spacing Table on TM800 for max. spacing.

○ ○ ○ ○ ○ Temp. Plastic Drums
See TCD Spacing Table on TM800 for max. spacing.

UNDER TRAFFIC

UNDER CONSTRUCTION

CALC. BOOK NO. N/A

SDR DATE 01-JUL-2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

INTERSECTION WORK ZONE DETAILS

2021

DATE	REVISION DESCRIPTION

tm841.dgn 01-JUL-2020

TM841

Effective Date: December 1, 2020 - May 31, 2021