

SHEET INDEX Sheet 1 - Index & Location Map Sheet 2 - Vicinity Map Sheet 3 - Sign Index Sheet 4 - Sign Table ODOT STANDARD DRAWINGS

TM200 - SIGN INSTALLATION DETAILS TM607 - WOOD POST SIGN SUPPORTS























35 мрн

Sign No. 8









		SIGN	1 & 1	POST DA	TA T,	ABLE		
SIGN	M.P.	SIDE	SIZE	FHA	RIDER	RIDER	POST	POST
No.			(WxH)	MUTCD.	No.	Size	Size	Length
1	0.093	RT	36x36	W1-2a R	na	na	4x6	18
2	0.130	LT	36x36	W1—2a L	na	na	4x6	18
3	0.600	RT	36x36	W1-4R	W13-1	24x24	4x6	20
4	0.786	RT	36x36	W1—2a L	na	na	4x6	18
CL-CR	0.809	RT	18x24	W1-8 R&L	na	па	4×4	16
CL-CR	0.832	RT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	0.852	RT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	0.876	RT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	0.899	RT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	0.921	RT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	0.943	RT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	0.965	RT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	0.987	RT	18x24	W1-8 R&L	na	na	4x4	16
5	1.011	RT	36x36	W1—2a R	na	па	4x6	18
6	1.048	RT	36x36	W1-2	W13-1	24x24	4x6	20
2	16.074	RT	36x36	W1—2a L	na	na	4x6	18
1	16.155	LT	36x36	W1—2a R	па	па	4x6	18
7	16.319	RT	<u>36x36</u>	W1—2a R	na	na	4x6	18
CL-CR	16.336	LT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	16.352	LT	18x24	W1-8 R&L	па	па	4x4	16
CL-CR	16.368	LT	18x24	W1-8 R&L	na	na	4×4	16
CL-CR	16.384	LT	18x24	W1-8 R&L	na	na	4x4	16
4	16.401	LT	36x36	W1—2a L	na	na	4x6	18
4	16.569	RT	36x36	W1—2a L	na	na	4x6	18
CL-CR	16.588	RT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	16.603	RT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	16.620	RT	<u>18x24</u>	<u>W1-8 R&amp;L</u>	na	na	4x4	16
CL-CR	16.637	RT	18x24	<u>W1-8 R&amp;L</u>	na	na	4x4	16
CL-CR	16.653	RT	<u>18x24</u>	W1-8 R&L	na	na	4x4	16
4	16.6/1	RI	<u>36x36</u>	<u>W1-2a L</u>	na	na	4x6	18
5	16.755	RI	<u>36x36</u>	<u>W1-2a R</u>	na	na	4x6	18
8	16.768	RI	<u>36x36</u>	W1 - 4L	W13 - 1	24x24	4x6	20
CL-CR	16.//1	$\lfloor L \rfloor$	18x24	<u>W1-8 R&amp;L</u>	na	na	4x4	16
CL - CR	16.786		<u>18x24</u>	<u>W1-8 R&amp;L</u>	na	na	4x4	16
CL-CR	16.801	$\lfloor L / \rfloor$	18x24	<u>W1-8 R&amp;L</u>	na	na	4x4	16
CL - CR	16.815	$\lfloor L \rfloor$	18x24	<u>W1-8 R&amp;L</u>	na	na	4×4	16
LCL-CR	16.830	$\lfloor L \rfloor$	<u>18x24</u>	<u>  W1-8 R&amp;L</u>	na	na	4x4	16
9	16.846		<u>36x36</u>	<u>W1-2a L</u>	na	na	4x6	18
5	17.069	RT	<u>36x36</u>	<u>W1-2a R</u>	na	na	4×6	18
CL - CR	17.084	$\lfloor L \rfloor$	<u>18x24</u>	<u>W1-8 R&amp;L</u>	na	na	4x4	16
CL-CR	17.099	$ L\Gamma $	18x24	W1-8 R&L	na	na	4x4	16

	(	SIGN	1 & 1	POST DA	TA T,	ABLE		
SIGN	M.P.	SIDE	SIZE	FHA	RIDER	RIDER	POST	POST
No.			(WxH)	MUTCD,	No.	Size	Size	Length
CL-CR	17.114	LT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	17.130	LT	18x24	W1-8 R&L	na	па	4×4	16
CL-CR	17.145	LT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	17.160	LT	18x24	W1-8 R&L	na	na	4x4	16
9	17.176	LT	36x36	W1—2a L	na	па	4x6	18
5	17.339	RT	36x36	W1—2a R	na	na	4x6	18
CL-CR	17.355	LT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	17.370	LT	18x24	W1-8 R&L	na	па	4×4	16
CL-CR	17.385	LT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	17.400	LT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	17.415	LT	18x24	W1-8 R&L	na	na	4×4	16
CL-CR	17.430	LT	18x24	W1-8 R&L	na	na	4x4	16
9	17.446	LT	36x36	W1—2a L	na	na	4x6	18
2	17.899	RT	36x36	W1—2a L	na	па	4x6	18
1	17.981	LT	36x36	W1-2a R	na	na	4x6	18
10	18.432	RT	36x36	W1-2	W13-1	24x24	4x6	20
2	18.469	RT	36x36	W1—2a L	па	па	4x6	18
1	18.578	LT	36x36	W1—2a R	na	na	4x6	18
1	18.612	RT	36x36	W1—2a R	na	na	4x6	18
1	18.859	LT	36x36	W1—2a R	па	па	4x6	18
1	19.064	RT	36x36	W1—2a R	na	na	4x6	18
1	19.469	LT	36x36	W1—2a R	na	na	4x6	18
1	19.971	RT	36x36	W1—2a R	na	na	4x6	18
2	20.061	LT	36x36	W1—2a L	na	na	4x6	18
9	20.119	RT	36x36	W1—2a L	na	na	4x6	18
CL-CR	20.137	RT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	20.153	RT	18x24	<u>W1-8 R&amp;L</u>	na	na	4x4	16
CL-CR	20.170	RT	18x24	<u>W1-8 R&amp;L</u>	na	na	4x4	16
CL-CR	20.186	RT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	20.203	RT	18x24	W1-8 R&L	па	па	4×4	16
<u>CL-CR</u>	20.219	RT	<u>18x24</u>	<u>W1-8 R&amp;L</u>	na	na	4x4	16
5	20.237	RT	36x36	W1—2a R	na	па	4x6	18
CL-CR	20.254	LT	18x24	W1-8 R&L	na	па	4×4	16
5	20.259	RT	36x36	<u>W1—2a R</u>	na	na	4x6	18
CL-CR	20.271	LT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	20.289	LT	18x24	W1-8 R&L	па	па	4x4	16
CL-CR	20.307	LT	<u>18x24</u>	<u>W1-8 R&amp;L</u>	na	na	4x4	16
CL-CR	20.325	LT	18x24	W1-8 R&L	na	na	4x4	16
CL-CR	20.342	LT	18x24	W1-8 R&L	па	па	4×4	16
9	20.361	LT	36x36	W1-2a L	na	na	4x6	18

## NOTES:

- 1) All Signs shall be plywood substrate in accordance with 02910.00
- 2) All Sign Legends shall be black.
- 3) All Sign Backgrounds shall be yellow, retroreflective.
- 4) All Posts shall be Pressure Treated Wood
- 5) CL-CR signs are dual chevrons, mounted on a single post using Engineer approved dual chevron mounting brackets.
- 6) Agency will field locate all signs and verify post length and post size prior to the start of the project.
- 7) Mile Points (M.P.) begin at 0.000, being the intersection of Willow Creek Road and Highway 206.





1-3-2017

TM200.dgn

TM200

General Installation Notes:

- a. Signing details shown on this sheet are intended to convey "typical" conditions only. Individual locations may require installation different from those shown.
- For guidance regarding unique installations or exceptions call the Project Sign Designer or Region Traffic Section.
- b. Locate breakaway supports away from ditches to avoid problems with erosion, corrosion, debris, maintenance and breakaway performance. See Dwg. No. TM635 for more information.
- c. For wood post support details see Dwg. No. TM670.
- d. For perforated steelsquare tube support details see Dwg. No. TM681.
- e. For triangular base breakaway support details see Dwg. No. TM602.
- f. For multi-post breakaway support details see Dwg. No. TM600.
- g. Mounting heights should not be more than 3 inches more than the minimum heights shown, where practical.
- h. 2" vertical spacing between all signs.

### Notes:

- 1). 6' minimum if behind barrier.
- 2). 2' minimum if restricted R/W.
- 3) 20 for ramp terminals.
- 4). 8' minimum if bicycle path underneath.
- 5). 8' minimum if secondary signs attached.
- 6). 5' minimum if outside clearzone, in rural areas and no pedestrians underneath.
- 7). For multi-post installations measure distance from post closest to roadway.

N/A	BASELINE REPORT DATE
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
on and use of this rawing, while de- ccordance with ccepted engineer- les and practices,	OREGON STANDARD DRAWINGS SIGN INSTALLATION DETAILS
d should not be	2018
ut consulting a	DATE REVISION DESCRIPTION
Professional En-	1/08/18 Adjusted slope line on Mounting Height detail for Clarity

TM200

# Effective Date: December 1, 2018 - May 31, 2019



	(X * Y * Z) in ft <sup>3</sup> – Maximum 3 Second Gust Wind Speed (TM671)											Field Drilled	Post Embedme		
85 MPH							95	MPH		1	05 and	110 MP	Diameters	Deptn "D"	
		Number of Posts			,	Numbe	r of Post	<i>'s</i>	Number of Posts						
		1	2	3* X=15'	3 <sup>*</sup> X≥20'	1	2	3 * X=15'	3 <sup>*</sup> X≥20'	1	2	3 * X=15'	3 <sup>*</sup> X≥20'		
ζE	4" x 4"	77	154	165	231	62	124	132	186	56	112	120	168	Not Req'd	4' - 0"
SIZ	4" x 6"	162	324	347	486	130	260	278	390	117	234	250	351	11/2"	5' - 0"
$r_{X}$	6" x 6"	270	540	578	810	216	432	462	648	195	390	417	585	2"	5' - 0"
PC	6" x 8"	494	988	1058	1482	395	790	846	1185	356	712	762	1068	3"	7' - 0"

PERMANENT WOOD POST TABLE

\* – Linear Interpolate X\*Y\*Z 3 post values for signs greater than 15' and less than 20'. \*\* - See note 8

		1	85 Numbe 2	MPH r of Post 3 <sup>*</sup> X=15'	$(\lambda)$ $3 \ S$ $ts$ $x \ge 20'$	( * Y * econd	Z) in Gust 95 Numbe 2	ft <sup>3</sup> – Wind Sp MPH r of Post 3 <sup>*</sup> X=15'	Maximu eed (TM ts 3 <sup>*</sup> X ≥20'	vm 1671) 1 1	05 and Numbe 2	' 110 MP r of Post 3 * X=15'	$H$ is $3^*$ $X \ge 20'$	Field Drilled Hole Diameters	Post Embedmen Depth "D"
Έ	4" x 4"	122	244	261	366	98	196	210	294	88	176	188	264	Not Req'd	4' - 0"
SIZ	4" x 6"	257	514	550	771	205	410	439	615	185	370	396	555	11/2"	5' - 0"
DST b X	6" x 6"	426	852	912	1278	341	682	730	1023	308	616	660	924	2"	5' - 0"
РС	6" x 8"	779	1558	1669	2337	624	1248	1337	1872	563	1126	1206	1689	3″	7' - 0"

TEMPORARY WOOD POST TABLE\*\*

\* - Linear Interpolate X\*Y\*Z 3 post values for signs greater than 15' and less than 20'. \*\* - See note 9



## General Notes:

- 22', 24', 26'.

  - Signals.

  - and G = 1.14.
  - 7. The sign width to sign height or sign height to sign width ratio shall not exceed 5.0. 8. Permanent signing uses an Ir = 0.71 for a recurrence interval of 10 years. 9. Temporary signing uses an Ir = 0.45 for a recurrence interval of 1.5 years. 10. Posts protected by barrier or guardrail do not require field drilled holes. 11. 4" x 4" posts should not be used in snow plow areas.

- The space around the wood post shall be backfilled to finished ground surface. З.
- 4.
- 6. Solidly ram and tamp the layers into the excavation area around the post. Dampen during placement if too dry to compact properly. 7.

- Accompanied by
- CALC. BOOK NO.
- The selection Standard D signed in a generally a ing princip is the sole the user an used without Registered gineer.

- 1. Wood posts are available in the following commercial lengths: 12', 14', 16', 18', 20',
- 2. Material shall be Douglas Fir No. 1 and according to Section 02110.40. 3. For horizontal and vertical clearances of permanent signs refer to TM200 and of temporary signs refer to TM822.
- 4. Wood post design in accordance with the 5th Edition 2009 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic
- 5. Use the 3 second gust wind speeds shown on TM671 for the site specific sign location. 6. General design parameters are Kz = 0.87, SIF (duration factor) = 1.6, Cd (sign) = 1.20,

### Post Embedment Installation:

- 1. Excavate the hole at least 12" larger in diameter than the diagonal dimension of the post. Maintain at least 6" of space around the edges of the post to accomodate compaction equipment.
- 2. Align the post in the hole to a vertical position.
- Backfill with selected general backfill meeting the requirements of 00330.13. 5. Place in layers not greater than 6 inches.
- 8. Replace and finish the surface around the post to match the surrounding surface.

dwgs. TM200, TM671,	TM822
5850	BASELINE REPORT DATE06-JAN-2017
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
on and use of this Drawing, while de-	OREGON STANDARD DRAWINGS
ccordance with ccepted engineer- les and practices, responsibility of	WOOD POST SIGN SUPPORTS
nd should not be	2018
ut consulting a	DATE REVISION DESCRIPTION
Professional En-	