

County Road Standards: Summary of Changes Between ORD 461.10 (2007) and ORD 461.11 (2023)



Updates to the County Road Standards are necessary from time to time to: ensure compliance with current applicable state and federal regulations; reflect advancements in technology; implement further public safety improvements; and clarify local requirements for the County road system.

The tables on the following pages identify the categories of changes made to each standard with the update from Ordinance No. 461.10 (2007) to Ordinance No. 461.11 (2023).

Listed below are some notable changes.

- Cross-gutters are now 12 feet wide instead of 10 feet.
 - Catch basin local depressions are now 3 inches instead of 4 inches.
 - For Urban, Arterial, Major, and Secondary Highways, the curved curb alignment approaching the intersection has been replaced with straight transitions.
 - Typical street section standards 82 through 86 were renumbered to place the standards in order of number of lanes and right-of-way widths.
 - Street light standards call out LED lighting instead of HPSV, and there is separate information for SCE and IID lights.
- Curb ramps:
 - Case A perpendicular curb ramps have revised geometry with 3-sided flared sides (like the Caltrans standard), instead of 4-sided flared sides. The new standard provides more pedestrian access space around traffic signal equipment.
 - Curb ramp standards have lower slope rates for design and construction purposes to ensure that built facilities do not exceed the federal and state requirements for maximum slopes. For example, ramp slopes are now shown as 7.5% instead of 8.33%, with notes that measured as-built facilities may go up to the 8.33% maximum. No construction tolerances are permitted for the construction of accessibility improvements.
 - Additional details and notes have been added.
 - New standards include: full trash capture devices, riprap, safety edge, flashing beacons, video/radar detection, and other traffic engineering standards.
 - There are also other changes to details and notes throughout the set of standards.

Ordinance No. 461.11 County Road Standards effective March 2, 2023

SUMMARY OF UPDATES

Page No. in 2007 Riv Co Road Stds PDF	Std No.	Ordinance No. 461.10 (2007) Road Std Title	Ordinance No. 461.11 (NEW) Road Std Title	Deleted Standard	Added New Standard	Combined or Split Sheets	Applied Revised Border, Title Block	Reformatted Drafting	Modified Title of Standard	Updated Accessibility (ADA) Compliance	Removed Plastic Sheeting (See Std 401)	Added Subgrade Compaction Note	Updated Soil Note	Modified/Added Concrete Specification	Modified the Notes Section	Other Changes to Text, Details	Additional Notes / Comments
1		Index - Page 1	County Road Standards Index - Page 1 of 2				X	X	X								Revised for new, deleted, and modified standard titles and numbers.
2		Index - Page 2	County Road Standards Index - Page 2 of 2				X	X	X							X	
			Acronyms and Abbreviations (Sheet 1 of 3)		X												Added new listing of acronyms and abbreviations.
			Acronyms and Abbreviations (Sheet 2 of 3)		X												
			Acronyms and Abbreviations (Sheet 3 of 3)		X												
3	81-1	8-Lane Expressway (220' R/W)	8-Lane Expressway 152' Improvement (220' R/W)				X	X	X	X					X	X	Added conditional sidewalk.
4	81-2	8-Lane Expressway (220' R/W)	8-Lane Expressway 152' Improvement (220' R/W)				X	X	X								
5	82-1	6-Lane Expressway (220' R/W)	8-Lane Expressway 146' Improvement (220' R/W)				X	X	X	X					X	X	Renumbered old Std 82 to new Std 84.
6	82-2	6-Lane Expressway (220' R/W)	8-Lane Expressway 146' Improvement (220' R/W)				X	X	X							X	Renumbered old Std 86 to new Std 82. Changed old Std 86 from 6 to 8 lanes and 146' to 152' improvement width.
7	83-1	6-Lane Expressway (184' R/W)	8-Lane Expressway 134' Improvement (184' R/W)				X	X	X	X					X	X	Renumbered old Std 83 to new Std 85.
8	83-2	6-Lane Expressway (184' R/W)	8-Lane Expressway 134' Improvement (184' R/W)				X	X	X								Renumbered old Std 87 to new Std 83. Changed median curb notation.
9	84-1	6-Lane Expressway (150' R/W)	6-Lane Expressway 152' Improvement (220' R/W)				X	X	X	X					X		Deleted old Std 84. Renumbered old Std 82 to new Std 84. Added conditional sidewalk.
10	84-2	6-Lane Expressway (150' R/W)	6-Lane Expressway 152' Improvement (220' R/W)				X	X	X								
11	85-1	6-Lane Expressway (142' R/W)	6-Lane Expressway 110' Improvement (184' R/W)				X	X	X	X					X	X	Renumbered old Std 85 to new Std 86.
12	85-2	6-Lane Expressway (142' R/W)	6-Lane Expressway 110' Improvement (184' R/W)				X	X	X							X	Renumbered old Std 83 to new Std 85.
13	86-1	6-Lane Expressway (220' R/W)	6-Lane Expressway 110' Improvement (142' R/W)				X	X	X	X					X	X	Renumbered old Std 86 to new Std 82.
14	86-2	6-Lane Expressway (220' R/W)	6-Lane Expressway 110' Improvement (142' R/W)				X	X	X							X	Renumbered old Std 85 to new Std 86.
15	87-1	8-Lane Expressway (184' R/W)		X													Deleted these sheets. Renumbered old Std 87 to
16	87-2	8-Lane Expressway (184' R/W)		X													new Std 83.

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17	91-1	Urban Arterial Highway (152' R/W)					X	X	X						X	X	
18	91-2	Urban Arterial Highway (152' R/W)					X	X							X		Remove curve in approaching curb and use straight transition.
19	92-1	Arterial Highway (128' R/W)					X	X	X						X	X	
20	92-2	Arterial Highway (128' R/W)					X	X							X		Remove curve in approaching curb and use straight transition.
21	93-1	Major Highway (118' R/W)					X	X	X						X	X	
22	93-2	Major Highway (118' R/W)					X	X							X		Remove curve in approaching curb and use straight transition.
23	94-1	Secondary Highway (100' R/W)					X	X	X						X	X	
24	94-2	Secondary Highway (100' R/W)					X	X							X		Remove curve in approaching curb and use straight transition.
25	95	Mountain Arterial Highway (110' R/W)					X	X							X	X	
26	103	Collector Street (No Access)	Collector Street (No Access) (74' R/W)				X	X	X	X					X	X	
27	104	Enhanced Local Street Adjacent To School or Park	104-1 Enhanced Local Street Adjacent To School or Park (66' R/W)			X	X	X	X	X					X	X	Modified Section "B" to include curb & gutter on both sides.
			104-2 Enhanced Local Street Adjacent To School or Park (66' R/W)		X												
28	105-1	Local Street (56' R/W)	105B Short Local Street (56' R/W)				X	X	X	X					X	X	Renumbered old Std 105-1 to Std 105B. Added curb & gutter.
29	105-2	Local Street (60'R/W)	105A Exterior & Local Street (60' R/W)				X	X	X	X					X	X	Renumbered old Std 105-2 to Std 105A. Added curb & gutter.
			105C Unpaved Local Road / Unpaved Access Road (60' R/W)		X												Added new standard for unpaved roads to be improved with aggregate base.
30	106	Offsite Access Road (60' R/W)	Access Road, Constrained Local Street or Private Street (50'-60' R/W)				X	X	X						X	X	Modified Section "B" to include curb & gutter on both sides.
31	107	Local Frontage Road	Local Frontage Road (52' R/W)				X	X	X	X					X	X	
32	107A	Collector Frontage Road	Collector Frontage Road (59' R/W)				X	X	X	X					X	X	
33	108	Secondary Frontage Road	Secondary Frontage Road (82' R/W)				X	X	X	X					X		
34	109	Major Frontage Road	Major Frontage Road (97' R/W)				X	X	X	X					X	X	
35	111	Industrial Collector Street (78' R/W)					X	X	X						X	X	
36	112	Local Mountain Residential Street (50' R/W)					X	X							X	X	
37	113	Landscape Median					X	X				X			X	X	
38	113A	Crossover Median					X	X							X	X	Added PCC minimum thickness and AB under PCC crossover median.

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39	114	Roadway Design Requirements	114-1			X	X	X						X	X	Added 105A and 105B. Added Curb Return Radius.
			114-2		X		X								X	
40	115	Local and Collector Street Bridge					X	X	X					X	X	
41	116	Urban Arterial Highway Bridge					X	X	X					X	X	
42	117	Arterial Highway Bridge					X	X	X					X	X	Added sidewalk slope. Deleted barrier widths.
43	118	Major Highway Bridge					X	X	X					X	X	
44	119	Secondary Highway Bridge					X	X	X					X	X	
45	136	Collector Rural Road	Collector Rural Road (60' R/W)				X	X	X						X	Changed Caltrans Std A87 to A87B.
46	138	Residential Rural Road	Residential Rural Road (60' R/W)				X	X	X						X	
47	200	Type A-6 Curb	Type A-6 Curb and Gutter 6" Curb Face				X	X	X		X	X				
48	201	Type A-8 Curb	Type A-8 Curb and Gutter 8" Curb Face				X	X	X		X	X				
49	202	Type "C" Curb	Type "C" Curb Rolled Curb				X	X	X		X	X				
			202A Type "W" Curb Wedge Curb		X										X	Added new curb standard.
50	203	Type "D-1" Curb for Existing Pavement	Type "D-1" Curb Only on Existing Pavement				X	X	X		X	X	X		X	
51	204	Type "D" Curb	Type "D" Curb Only				X	X	X			X			X	Added details for sawcutting existing pavement.
52	205	Curb and Gutter Joints					X	X							X	Added 50' interval of expansion joints.
53	206	Residential Driveway with A.C. Dike	Residential Driveway with HMA Dike				X	X	X	X	X			X	X	
54	207	Residential Driveway with Sidewalk at Curb	Residential Drive Approach with Sidewalk at Curb				X	X	X	X	X	X	X	X	X	
55	207A-1	Commercial Driveway (with Sidewalk at Curb)	207A-1 Commercial Drive Approach (with Sidewalk at Curb)			X	X	X	X	X	X	X	X	X	X	
			207A-2 Commercial Drive Approach (with Sidewalk at Curb)		X		X	X	X							
56	207A-2	Commercial Driveway (with Sidewalk at R/W)	207A-3 Commercial Drive Approach (with Sidewalk at R/W)			X	X	X	X	X	X	X	X	X	X	
			207A-4 Commercial Drive Approach (with Sidewalk at R/W)		X		X	X	X	X						
57	208	Driveway Locations at Intersection Curb Returns	Driveway Approach Locations at Intersection Curb Returns				X	X	X							
58	209-1	Cross Gutter (Layout)	Cross Gutter and Spandrel (Layout)				X	X	X					X	X	Increased cross gutter width from 10' to 12'.
59	209-2	Cross Gutter (Typical Section)	Cross Gutter and Spandrel (Typical Section)				X	X	X	X	X	X	X	X	X	Increased thickness of concrete at joint.
60	210	Cross Gutter with Splash Area	Cross Gutter and Spandrel with Splash Area				X	X	X	X	X	X	X	X	X	Increased thickness of concrete at joint.
61	211	Curb Transition					X	X							X	
62	212	Asphalt Concrete Dikes	Hot Mix Asphalt Dikes				X	X	X					X	X	

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63	213	Residential Driveway with Sidewalk at R/W	213-1 Residential Driveway Approach with Sidewalk at R/W			X	X	X	X	X	X	X	X	X	X	
			213-2 Residential Driveway Approach with Sidewalk at R/W		X		X		X							Modified callout for tooled joints.
			214-1 Safety Edge		X											
			214-2 Safety Edge		X											Added new safety edge standard.
64	300-1	Curb Inlet Catch Basin					X	X	X	X					X	Decreased gutter depression from 4" to 3".
65	300-2	Curb Inlet Catch Basin (Specs)	Curb Inlet Catch Basin				X	X	X			X	X	X	X	
66	300A	Fossil Filter					X	X								
67	301	Combination Inlet Catch Basin No. 1	301-1			X	X	X	X	X						
			301-2		X		X	X				X	X	X	X	
68	302-1	Combination Inlet Catch Basin No. 2					X	X		X						
69	302-2	Combination Inlet Catch Basin Specifications	Combination Inlet Catch Basin No. 2				X	X	X			X	X	X		
70	303-1	Flat Outlet Drainage Structure					X	X	X							
71	303-2	Flat Outlet Drainage Structure Details	Flat Outlet Drainage Structure				X	X	X			X	X			
72	304	Curb Support Detail					X	X								Decreased gutter depression from 4" to 3".
73	305	Grate and Frame Detail	305-1			X	X	X							X	
			305-2		X		X	X							X	Added bicycle-safe grate detail.
74	306	Asphalt Concrete Overside Drain	Hot Mix Asphalt Overside Drain				X	X	X							
75	307	P.C.C. Dip Section	PCC Dip Section				X	X	X	X		X	X		X	
76	308-1	Curb Outlet	Curb Outlet Drain				X	X	X							
77	308-2	Curb Outlet	Curb Outlet Drain				X	X	X			X	X			
78	309	Under Sidewalk Drain Cast In Place					X	X		X		X	X			
79	310	Private Drain Through Curb					X	X	X				X			Added option for multiple pipes.
80	311	Gutter Depression for Curb Opening Catch Basins	311-1			X	X	X				X				Decreased gutter depression from 4" to 3".
			311-2		X		X	X								
81	312	Gutter Depression for Grate Opening Catch Basin	312-1			X	X	X				X	X			Decreased gutter depression from 4" to 3".
			312-2		X											

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			313-1 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X												Added new FTCD standards.	
			313-2 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			313-3 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			313-4 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			313-5 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			313-6 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			313-7 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			313-8 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			313-9 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			313-10 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			313-11 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			313-12 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			313-13 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			313-14 Full Trash Capture Device (FTCD) Connector Pipe Screen (CPS)		X													
			314-1 Riprap Energy Dissipator and Apron at Wingwall Storm Drain Outfall		X												Added new riprap standards.	
			314-2 Riprap Energy Dissipator at V-Ditch Outfall		X													
			314-3 Riprap Energy Dissipator and Apron at Straight Headwall Outfall		X													
			313-4 Riprap Energy Dissipator Sizing and Concrete Sill		X													

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82	400-1	Sidewalk, Fire Hydrant, & Utility Pole Location (Sidewalk at Curb)					X X									Reduced sidewalk width behind utility pole from 6' to 5'.
83	400-2	Sidewalk, Fire Hydrant, & Utility Pole Location (Sidewalk at R/W)					X X						X		X	
84	401	Sidewalk and Curb					X X		X			X	X	X	X	Expanded the area of aggregate base and plastic sheeting for certain soil types.
85	403-1	Curb Ramp Case A					X X		X	X	X			X	X	Revised curb ramp geometry. Removed requirement for grooves. Called out tooled joints. Reduced curb ramp slope from 8.33% to 7.5%. Reduced cross slope from 2.00% to 1.5%. Reduced transition side slope from 10.00% to 9%.
86	403-2	Curb Ramp Case B					X X		X	X	X			X	X	Removed requirement for grooves. Called out tooled joints. Reduced ramp slope from 8.33% to 7.5%. Reduced cross slope from 2.00% to 1.5%.
87	403-3	Curb Ramp	Curb Ramp Profile				X X X X								X	Modified the table (Case A) for revised slopes. Added a table for Case B and Case C.
88	403-4	Curb Ramp Construction Notes	403-7 Curb Ramp Notes				X X X X					X	X	X	X	Expanded and clarified notes.
			403-4 Curb Ramp Case C "T" Intersection with Sidewalk at Curb		X											Added a new detail for parallel curb ramp with sidewalk at curb.
			403-5 Curb Ramp Case D "T" Intersection with Sidewalk at R/W		X											Added a new detail for curb ramp with sidewalk at R/W.
			403-6 Curb Ramp Case C and D Location at "T" Intersection		X											Added a new detail to show curb ramp locations at T-intersections.
89	404	Meandering Sidewalk					X X		X	X		X	X	X	X	Added accessibility note.
90	405-1	Multipurpose Trail	405			X	X X		X					X	X	Moved sidewalk location. Added note to refer to Riverside Comprehensive Landscape Guidelines and Standards for fencing requirements.
91	405-2	Multipurpose Trail		X												Removed sheet with fencing details (see comment above).
92	500	Typical Alley and Alley Apron Sections	Alley and Alley Apron Sections				X X X X				X	X	X	X	X	Re-designed to meet ADA requirements.
93	600	Sewer House Connection					X X									
94	601	Sewer Chimney Pipe					X X						X			
95	603	Sewer Cleanout					X X						X			

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		Road Std Title	Road Std Title														
96	604	Sewer Manhole		X													Deleted standards since pre-cast concrete is now used instead of brick.
97	605	Deep Sewer Manhole		X													
98	606	Pre-Cast Concrete Manhole (Eccentric)					X	X						X			
99	607	Pre-Cast Concrete Manhole (Concentric)					X	X						X			
100	608	Manhole Frames and Covers					X	X		X							
101	610	Pre-Cast Rectangular Shallow Manhole					X	X									
102	611	Rectangular Manhole Frame and Cover					X	X								X	Modified geometrics.
103	612	Paving Detail Around Manhole in Unpaved Area					X	X					X		X		
104	700	Typical Water Meter Installation	Water Meter Installation				X	X	X				X			X	Increased cover over water main from 36" to 48" to match Std 817.
105	701	Fire Hydrant Installation					X	X					X		X	X	Changed 18" setback from flow line to nearest part of FH. Increased cover over water main from 36" to 48" to match Std 817.
106	702	Fire Hydrant Installation (Alternate)					X	X							X		Increased cover over water main from 36" to 48" to match Std 817. Changed ordinance reference.
107	703	Valve Box, Frame and Cover					X	X									Increased cover over water main from 36" to 48" to match Std 817.
108	800	Cul-De-Sac					X	X									Added 50' R/W. Deleted 60'/20' combination row. Revised table values.
109	800A	Offset Cul-De-Sac				X	X	X									Added 50' R/W. Deleted 60'/20' combination row. Revised table values.
110	801	Standard Knuckle	801-1 Knuckle			X	X	X	X								
			801-2 Knuckle		X		X	X	X								Added 50' R/W. Deleted 60'/20' combination row. Revised table values.
111	802	Frontage Road Intersection				X	X	X									
112	803	Private Road Connection (Rural Area)				X	X	X								X	Added notation to handle drainage with pipe or cross gutter.
113	805	Property Line Corner Cut-Back, Curb Return Radius	805-1			X	X	X							X		
			805-2		X												Added detail for corner cutbacks for Schedule A Subdivisions with Entry Statements.

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			806 Entry Street 50' Imp / 80' R/W		X												Added new standard.
114	810	Barricade					X	X							X		Added note to meet Caltrans requirements.
115	812	Multiple Mailbox Installation for New Sidewalk					X	X							X	X	Modified geometry of sidewalk around mailbox.
116	813	Multiple Mailbox Installation for Existing Sidewalk					X	X							X	X	
117	814	Bus Turnout					X	X		X			X		X	X	
118	815	Street Name Sign (Curb to Curb Width Greater than 40')		X													Deleted this standard number. Moved to new Std 1220.
119	816	Street Name Sign (Curb to Curb Width Less than 40')		X													Deleted this standard number. Moved to new Std 1221.
120	817-1	Underground Utility Locations					X	X							X	X	Changed the minimum cover over gas lines from 2.5' to 3.5' and 4.0'.
121	817-2	Underground Utility Locations					X	X							X	X	
122	818	Utility Trench Backfill					X	X							X	X	Updated notes.
123	819	Location of Cable TV Ducts at Street Intersections					X	X									
124	820	Fixed Object Placement for Interim Roadway Conditions	Fixed Object Placement for Roadways without Curbs				X	X	X								
125	821	Intersection Sight Distance					X	X							X	X	Updated notes.
126	900	Tie-Out Standards					X	X							X		
127	901	Street Centerline Monument					X	X							X		
128	903	Type "B" Monument					X	X									
129	1000	Residential Lighting	1000-1 Street Lighting (Southern California Edison (SCE) Electric Serving Area)			X	X	X	X						X	X	Changed luminaire from HPSV to LED. Added tables. Updated notes.
			1000-2 Street Lighting (Imperial Irrigation District (IID) Electric Serving Area)		X												Added new standard for street lights in Imperial Irrigation District service area.
			1000-3 Street Lighting		X												Added details for sidewalk location around street lights.
130	1001	Arterial Highway Lighting		X													Deleted this standard. Combined information into Std 1000-1.
131	1101	Tree Setbacks at Corner Cut-Backs and Driveways					X	X									
			1102 Tree Staking Detail		X												
			1103 Backflow Prevention Device Installation		X												Added new landscaping standards.
132	1200	Traffic Signal Pole IISNS Straight Arm Mounting Detail	IISNS Mast Arm Detail				X	X	X						X	X	Modified dimensions.

Page No. in 2007 Riv Co Road Stds PDF	Std No.	Ordinance No. 461.10 (2007) Road Std Title	Ordinance No. 461.11 (NEW) Road Std Title	Deleted Standard	Added New Standard	Combined or Split Sheets	Applied Revised Border, Title Block	Reformatted Drafting	Modified Title of Standard	Updated Accessibility (ADA) Compliance	Removed Plastic Sheeting (See Std 401)	Added Subgrade Compaction Note	Updated Soil Note	Modified/Added Concrete Specification	Modified the Notes Section	Other Changes to Text, Details	Additional Notes / Comments
133	1201	Type E Loop Detector Sawcut & Replacement Detail	1206 Loop Detector Detail				X	X	X							X	Renumbered old Std 1201 to new Std 1206. Updated table and details. New Std 1201 is IISNS Detail.
			1201 IISNS Detail		X												Added new standard for internally illuminated signal name sign.
134	1202	Traffic Signal Detail Sheet	1202-1 Traffic Signal Detail			X	X	X	X						X	X	Updated specifications.
			1202-2 Traffic Signal Detail		X												Added battery backup system details.
			1202-3 Traffic Signal Detail		X												
135	1203	Case "A" Detection Input		X													Deleted loop detection. Replaced with video/radar detection.
136	1204	Case "B" Detection Input		X													
			1205 Video/Radar Detection Detail		X												Added new traffic standards.
			1207-1 ATS Detection Input Assignments		X												
			1207-2 170 & 2070 Detection Input Assignments		X												
			1210 Striping Details and Construction Notes		X												
			1211 Crosswalk and Limit Line Detail		X												
			1215 Solar Powered Flashing Beacon		X												
			1216 Solar Powered Radar Speed Feedback Sign - Local Road		X												
			1217 Solar Powered Radar Speed Feedback Sign - Highway		X												
			1220-1 Street Name Sign (Curb to Curb Width Greater than 60')		X	X	X	X	X	X					X	X	Renumbered old Std 815 to new Std 1220. Details and notes fully reworked.
			1220-2 Street Name Sign (Curb to Curb Width Greater than 60')		X												
			1221-1 Street Name Sign (Curb to Curb Width Less than or Equal to 60')		X	X	X	X	X	X					X	X	Renumbered old Std 816 to new Std 1221. Details and notes fully reworked.
			1221-2 Street Name Sign (Curb to Curb Width Less than or Equal to 60')		X												
			1222-1 Sign Post Installation		X												Added new traffic standards.
			1222-2 Sign Post Installation		X												
			1223 No Parking Sign RV's / Trailers		X												
			1225 Advance Street Name Sign		X												

10 63 19 135 136 63 48 12 14 29 25 67 84