



PUBLIC WORKS DEPARTMENT

DEVELOPMENT ENGINEERING

City of Irvine, One Civic Center Plaza, P.O. Box 19575, Irvine, California 92623-9575 (949) 724-7365

SIGNING AND STRIPING PLAN PREPARATION GUIDELINES

GENERAL

1. All plans shall be prepared on 24"x36" mylars with a 1/2" margin on all sides except the left side which will be 1 1/2".
2. Plan shall be prepared using AutoCAD 2000 or later. The plan shall be provided to the City of Irvine on compact disc (CD) or ZIP disk upon completion of the design.
3. All plans shall be 1"=40' scale.
4. North arrows should point to top or right of sheet if possible.
5. All sheets shall be numbered consecutively, "Sheet ___ of ___," in the lower right of the plan.
6. All lettering shall be 1/10" minimum height and be legible when plans are microfilmed.
7. Plan shall include engineering firm name, address, telephone number, date plans prepared, signature, number and expiration date of Registered Civil Engineer.
8. All stationing shall refer to centerline of street unless otherwise noted and shall read from left to right.
9. All plans shall include the City of Irvine signing and striping general notes. Construction notes and a legend shall also be included.
10. All curbs, raised medians, edge of pavement, driveways, alleys, sidewalks, access ramps and right-of-way shall be shown.
11. All existing regulatory, warning, guide and any special signs shall be shown. This includes parking prohibitions signs, advance street name signs, bus stop signs etc. All existing sign locations shall be field verified.
12. All existing striping, pavement markings and curb markings shall be shown, including bike lanes, parking layouts, and crosswalks and limit lines. All existing striping shall be shown as a thin line and all proposed striping as a thick solid line. Locations and types of existing striping and pavement markings shall be field verified.
13. Jurisdictional boundaries, street names, centerlines and stations shall be shown.
14. Match lines shall be clearly shown and referenced on the plan.
15. Revisions shall be specified with a delta number inside a clouded area wherever they occur on the plan. The revision box on the title sheet and the revision box on the sheet where the revision appears shall show the delta number and revision description, the affected plan sheet numbers, and the Design Engineer's initials in the revision block.



SIGNING AND STRIPING PLAN PREPARATION GUIDELINES **(CONTINUED)**

DESIGN

1. Signing and striping shall conform to Part 2 Signs & Part 3 Markings of the Manual on Uniform Traffic Control Devices (MUTCD) and MUTCD 2003 California Supplement dated May 20, 2004, and any addendums there to or latest edition.
2. Detail 9 lane line striping pattern in Part 3 Markings shall be used on all multilane streets regardless of street design speed.
3. All striping, pavement markings and signage shall be reflectorized.
4. Pavement legends shall match the City of Irvine stencils (Hawkins Stencils or equivalent).
5. Lane dimensions shall be shown at 300-foot intervals and at each end of lane or pavement transitions, match lines and join locations. Also, show length of turn lanes, flares, and reverse tapers.
6. Minimum of 300 feet of roadway with striping details beyond project limits (showing join points) shall be shown.
7. The minimum lane width for a left turn shall be 10 feet.
8. Minimum 150 feet storage for a single left turn shall be provided on streets with a design speed greater than 45 MPH or at signalized intersections. Maximum length for a single left turn lane shall be 300 feet.
9. Minimum bay taper for turn lane shall be as follows:
 - Single left turn lane – 90 feet.
 - Dual left turn lanes – 150 feet.
 - Single left turn lane at driveways or streets with design speed of 25 MPH – 60 feet
 - Single right turn lane shall be 90 feet and dual right turn lane shall be 120 feet.
10. The typical striping for a three (3) lane Major Arterial shall be as follows:
 - Half section of 45 feet - #1 through lane 13 ft., #2 and #3 through lane 12 ft. and 8-foot bike lane.
 - Half section of 44 feet - #1 through lane 13 ft., #2 through lane 11 ft., #3 through lane 12 ft. and 8-foot bike lane.
 - Half section of 41 feet - #1 through lane 12 ft., #2 and #3 through lane 11 ft. and 7-foot bike lane.
11. The typical striping for a two (2) lane Primary Arterial shall be as follows:
 - Half section of 33 feet - #1 through lane 13 ft., #2 through lane 12 ft. and 8-foot bike lane.
12. Lane width adjacent to raised median is 13 ft. and 12 ft. adjacent to painted median.
13. The minimum curb lane width on an Arterial Highway without an on street bike lane shall be 14 ft.
14. A one (1) foot offset in the lane striping through an intersection is acceptable.
15. Crosswalk at intersection shall be striped per the City of Irvine Standard Plan No. 203.
16. City of Irvine Special Sign “No Parking Entire Block” (R26EB) sign (see attachment 1) shall be used at the beginning of the block on streets that parking is prohibited and has raised medians.
17. “BIKE ONLY” legend and arrow shall be installed as part of on-street bike lane striping at the beginning of each block.



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GENERAL NOTES

The following general notes shall be provided on the first plan sheet of the Signing and Striping Plans:

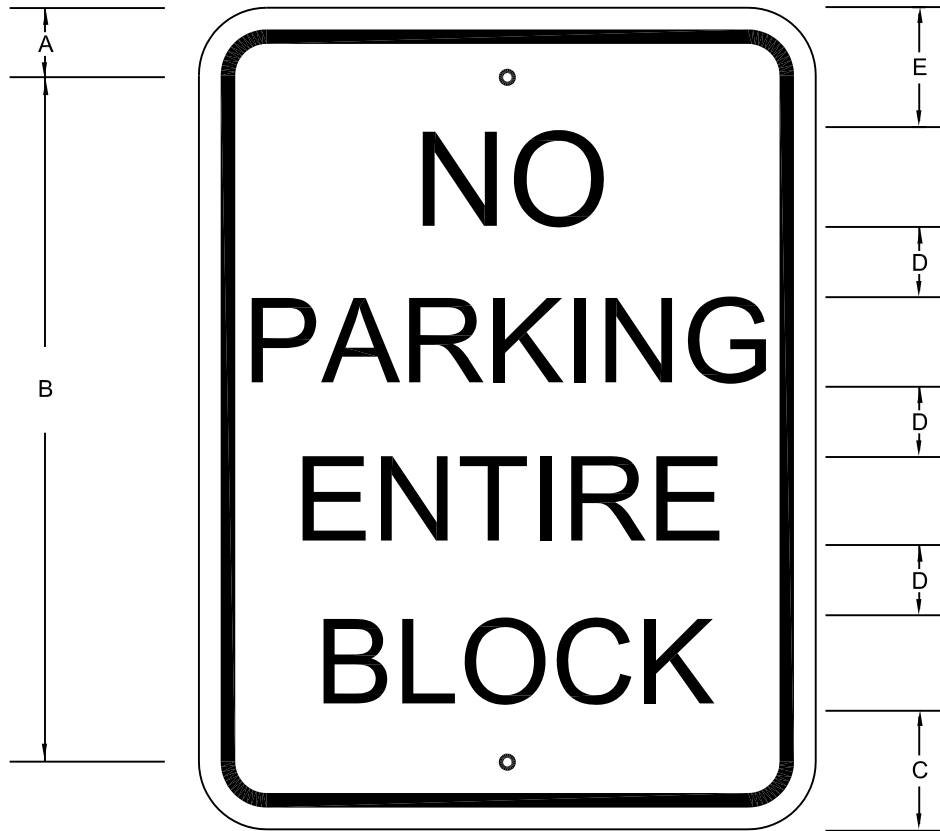
1. SIGNING AND STRIPING SHALL CONFORM TO THE LATEST EDITION, AND REVISIONS OF CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND ANY ADDENDUMS THERE TO OR LATEST EDITION, THESE PLANS AND SPECIAL PROVISIONS.
2. DETAIL 9 LANE LINE STRIPING PATTERN IN CA MUTCD PART 3 MARKINGS SHALL BE USED ON ALL MULTI-LANE STREETS REGARDLESS OF STREET DESIGN SPEED.
3. PAVEMENT LEGENDS SHALL MATCH THE CITY STENCILS (CALTRANS STANDARD METRIC STENCILS OR APPROVED EQUAL).
4. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE REFLECTORIZED AND APPLIED IN TWO COATS. A MINIMUM OF SEVEN DAYS SHALL BE PROVIDED BETWEEN FIRST AND SECOND COATS.
5. ALL GREEN THERMOPLASTIC BIKE PAVEMENT APPLICATIONS SHALL BE PREMARKED AND INSTALLED PER MANUFACTURE'S RECOMMENDATIONS, TO THE SATISFACTION OF THE CITY INSPECTOR.
6. ALL CONFLICTING STRIPINGS, PAVEMENT MARKINGS, AND CURB PAINT SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD BY THE CITY INSPECTOR PRIOR TO INSTALLATION OF NEW STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED.
7. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS OR STRIPING SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY INSPECTOR.
8. THE CONTRACTOR SHALL CONTACT THE CITY OF IRVINE INSPECTION SERVICES FOR INSPECTION 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
9. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. IF CONDITIONS EXIST WHICH ARE CONTRARY TO THOSE SHOWN ON THESE PLANS, THE CITY OF IRVINE INSPECTION SERVICES SHALL BE NOTIFIED BEFORE PROCEEDING WITH WORK.
10. ALL WORK SHALL CONFORM TO THE PLANS AND SPECIFICATIONS IN ALL RESPECTS AND SHALL BE SUBJECT TO APPROVAL BY THE CITY ENGINEER.



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11. ALL TRAFFIC CONTROL WORK FOR CONSTRUCTION SHALL CONFORM TO PART 6 - TEMPORARY TRAFFIC CONTROL OF THE LATEST CA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND ANY ADDENDUMS THERE TO OR LATEST EDITION AND ALL O.S.H.A. REQUIREMENTS.
12. THE CONTRACTOR SHALL HAVE ALL TRAFFIC CONTROL CONSTRUCTION SIGNS, DELINEATORS, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
13. THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC CONTROL SIGNS, DELINEATORS, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC WHILE WORKING IN THE STREET.
14. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED BY THE CITY INSPECTOR / REPRESENTATIVE TO ASSURE PUBLIC SAFETY AT ALL TIMES.
15. THE CONTRACTOR SHALL UTILIZE A FLAGMAN DURING CONSTRUCTION WORK AS DEEMED NECESSARY BY THE CITY INSPECTOR.
16. ARROW BOARDS SHALL BE USED ON ANY LANE CLOSURE ON ARTERIAL STREETS.
17. STRIPING SHALL BE CAT TRACKED AND APPROVED BY THE CITY INSPECTOR PRIOR TO FINAL INSTALLATION.
18. CROSSWALK SHALL CONFORM TO THE CITY OF IRVINE STANDARD PLAN NO. 203.
19. ALL SIGN FACE REFLECTIVE SHEETING SHALL BE HIGH INTENSITY GRADE WITH PROTECTIVE OVERLAY FILM.
20. ALL SIGN POSTS SHALL BE 2-INCH SQUARE 14 GAUGE PERFORATED TELESAR WITH 2-1/4 SQUARE 12 GAUGE X 30-INCH SIGN POST ANCHOR PER THE CITY OF IRVINE REQUIREMENTS OR APPROVED EQUAL. CITY OF IRVINE SPECIAL SIGN R26EB SIGN SHALL BE INSTALLED ON STREET LIGHT POLE IF PRESENT.
21. ADVANCED STREET NAME SIGNS AND STREET NAME SIGNS SHALL BE WHITE LETTERS WITH "IRVINE BROWN" BACKGROUND.
22. BLUE RAISED REFLECTIVE PAVEMENT MARKER SHALL BE INSTALLED ADJACENT TO ALL FIRE HYDRANTS IN ACCORDANCE WITH THE LATEST EDITION CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), AND ANY ADDENDUMS THERE TO.



ALL DIMENSIONS ARE IN INCHES

| CITY CODE | SIZE | BORDER WIDTH | MARGIN WIDTH | LETTER SIZE, SERIES, STROKE WIDTH | | | | | CORNER RADIUS |
|-----------|---------|--------------|--------------|-----------------------------------|--------|--------|--------|--------|---------------|
| | | | | LINE 1 | LINE 2 | LINE 3 | LINE 4 | LINE 5 | |
| R26EB | 18 x 24 | 1/4 | 1/4 | 4D | 3 C | 3 C | 3 C | | 1.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| CITY CODE | SIZE | DIMENSIONS | | | | | | | | | | | | | | | |
|-----------|---------|------------|----|-----|---|-----|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
| R26EB | 18 x 24 | 1.5 | 21 | 2.5 | 2 | 2.5 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

COLOR
 BORDER & LEGEND - RED (REFL)
 BACKGROUND - WHITE (REFL)

FILE: MYDOCUMENT/PLAN REVIEW GUIDELINES/R26EB FINAL.DWG
 3/02/2000

CITY OF IRVINE * PUBLIC WORKS DEPARTMENT * DEVELOPMENT ENGINEERING



NO PARKING ENTIRE BLOCK SIGN DETAIL
 CITY SIGN CODE R26EB

ATTACHMENT

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