

SECTION 700

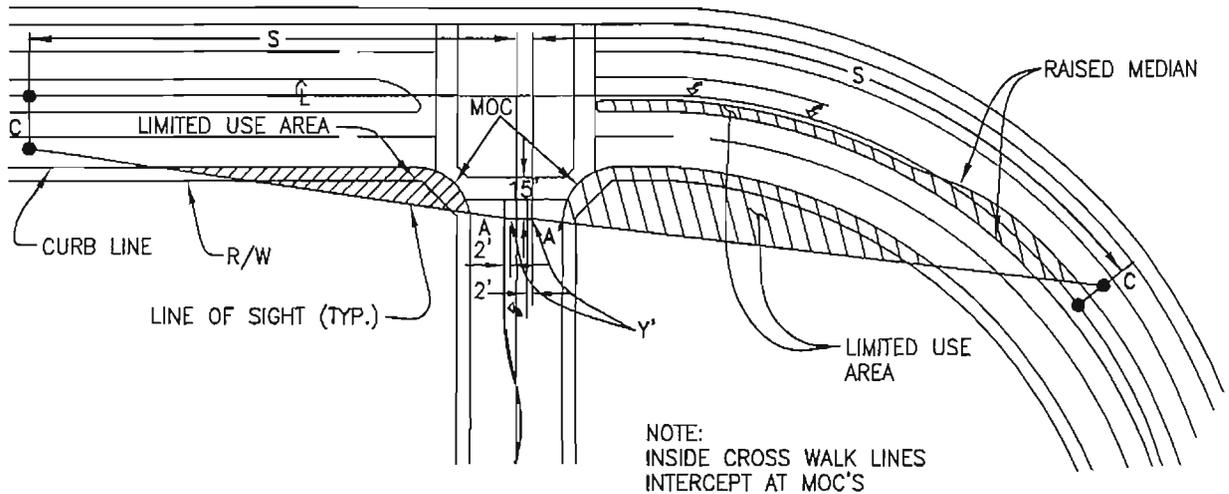
TRAFFIC

DESIGN STANDARDS

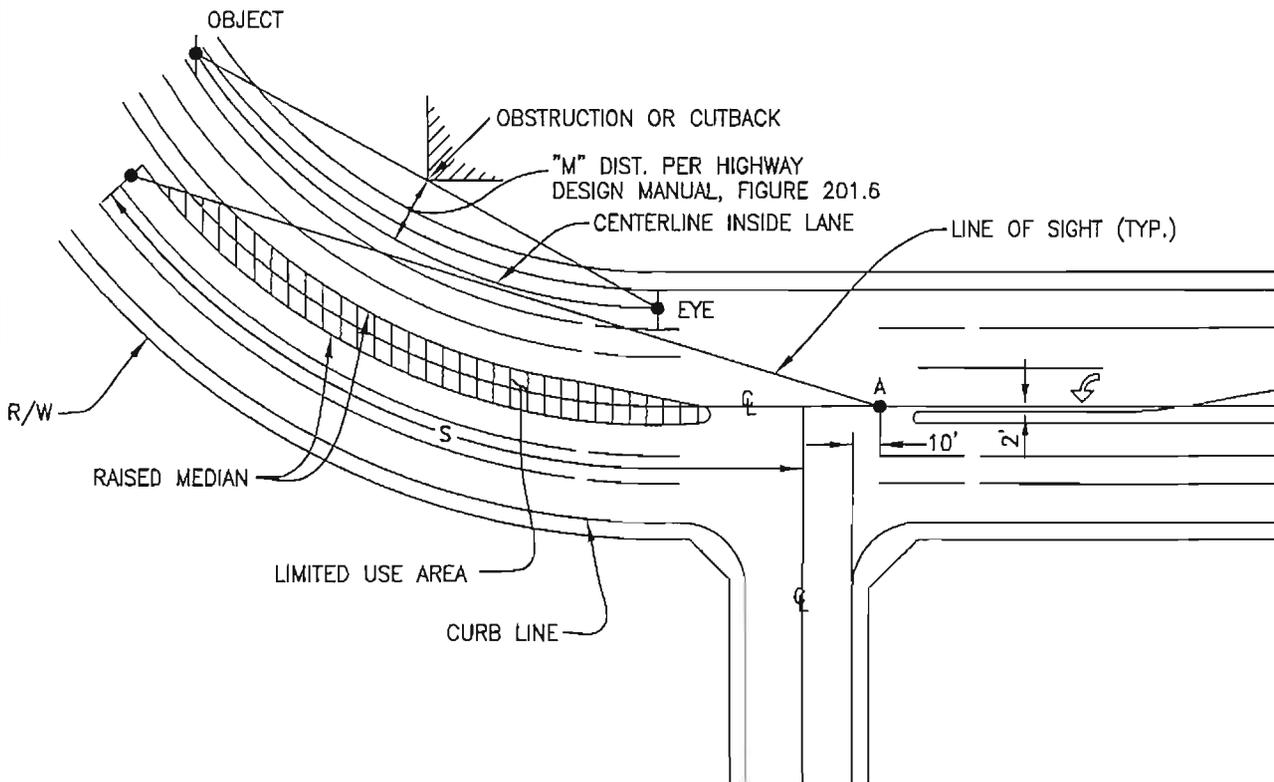
SECTION 700 – TRAFFIC

700 (3 Sheets) Intersection Sight Distance

701 Access Management Requirements



LEFT AND RIGHT TURN OUT
AND CROSS TRAFFIC
SIGHT DISTANCE



LEFT TURN IN
SIGHT DISTANCE



APPROVED BY: *[Signature]* 10.18.06
 CITY ENGINEER DATE
RICARDO SANDOVAL
 REVIEWED BY: *[Signature]*
 DATE OF LAST REVISION: _____

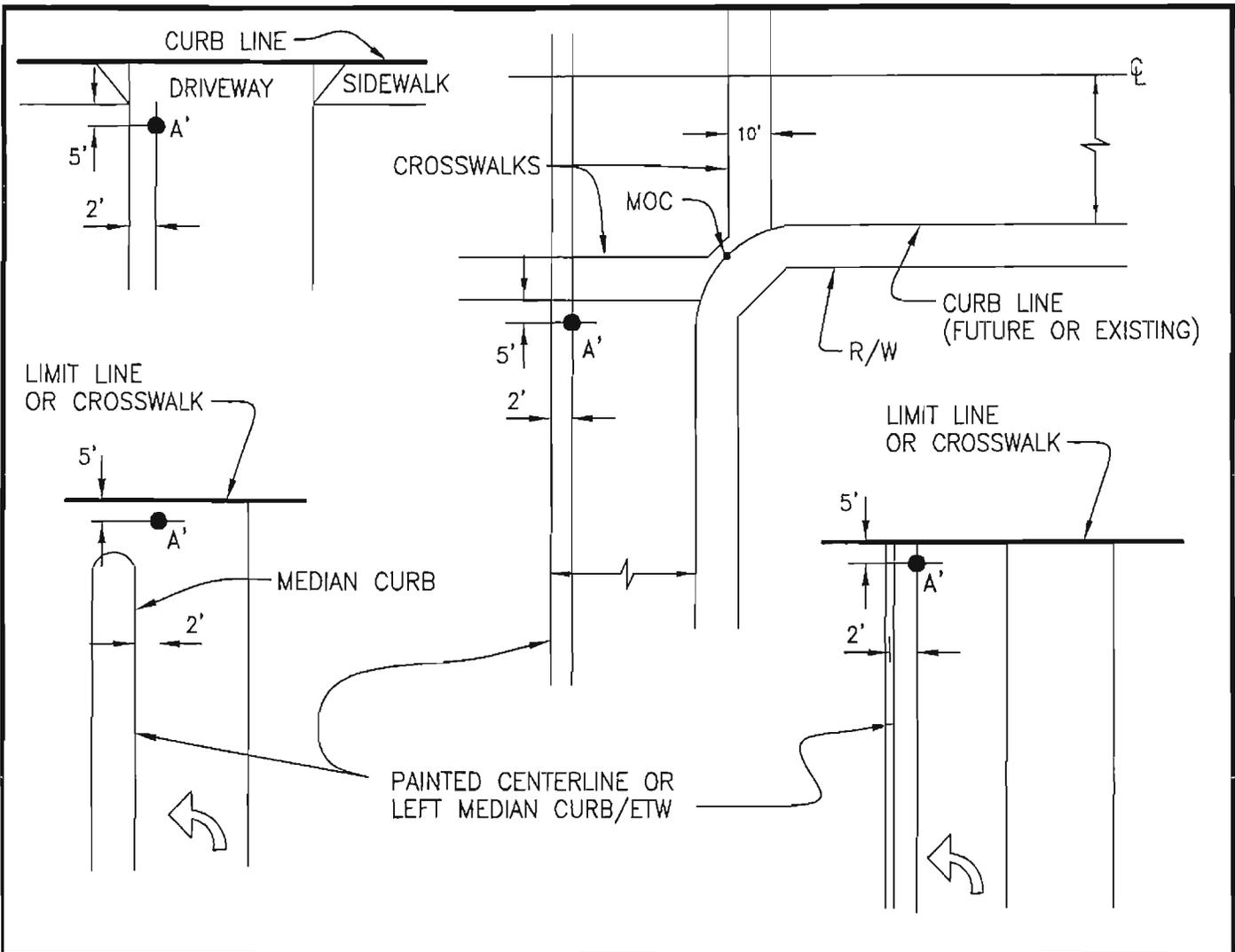
CITY OF FONTANA

INTERSECTION
SIGHT DISTANCE

07/10/06

STD. PLAN NO. 700

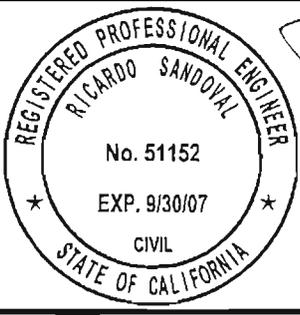
SHT 1 OF 3



DESIGN SPEED OR 85TH PERCENTILE (MPH)	STOPPING DISTANCE (1) (FT)
15	80
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645

- NOTES:
- = POINT OF MEASUREMENT.
 - FOR INTERSECTION CASES, SEE SHEET 3 FOR APPLICATION.
 - REFER TO SHEET 1 FOR LINE OF SITE APPLICATION TO DISTANCE (S).
 - WHERE VEHICLES ARE BACKING INTO ON COMING TRAFFIC, A' SHALL BE 13' VERSUS 5'.
 - MOC - MIDDLE OF CURB RETURN.

(1) STOPPING DISTANCE = SIGHT DISTANCE = S
 SOURCE: AASHTO GEOMETRIC DESIGN OF HIGHWAYS AND STREETS DATED: 2004



APPROVED BY: *Ricardo Sandoval*
 CITY ENGINEER DATE 10.18.06
RICARDO SANDOVAL
 REVIEWED BY: DG
 DATE OF LAST REVISION: _____

CITY OF FONTANA

INTERSECTION SIGHT DISTANCE

07/10/06

STD. PLAN NO. **700** SHT **2** OF **3**

NOTES:

1. THE DISTANCE S REPRESENTS THE INTERSECTION SIGHT DISTANCE MEASURED ALONG THE CENTERLINE OF THE ROAD. THE INTERSECTION SIGHT DISTANCE IS THE DISTANCE REQUIRED TO ALLOW STOPPING DISTANCE FOR THE DRIVER ON THE CROSS ROAD (OR LEFT TURN POCKET) TO SAFELY CROSS THE MAIN ROADWAY OR TURN LEFT WHILE THE APPROACH VEHICLE TRAVELS AT THE ASSUMED DESIGN SPEED OF THE MAIN ROADWAY.
2. THE DISTANCE S SHOULD BE INCREASED BY 20% FROM THE AMOUNT SHOWN ON THE STOPPING DISTANCE TABLE ON SUSTAINED DOWNGRADES STEEPER THAN 3% AND LONGER THAN ONE MILE.
3. POINTS A AND A' ARE THE LOCATIONS OF A DRIVER'S LINE OF SIGHT (3.5 FOOT EYE HEIGHT) TO ONCOMING VEHICLES (4.25 FOOT OBJECT HEIGHT) LOCATED AT POINTS C AND C WHILE IN A VEHICLE AT AN INTERSECTION 5 FEET BACK FROM THE PROJECTION OF THE FIRST CROSSWALK LINE LEADING INTO THE INTERSECTION. IN NO CASE SHALL POINTS A AND A' BE LESS THAN FIFTEEN FEET FROM THE EDGE OF THE TRAVELED WAY.
4. THE DISTANCE Y' IS THE 2 FOOT DISTANCE MEASURED FROM THE LEFT EDGE OF THE TRAVELED WAY TO THE LOCATION OF THE DRIVER.
5. THE LIMITED USE AREA IS DETERMINED BY THE GRAPHICAL METHOD USING THE APPROPRIATE DISTANCES GIVEN IN THE ABOVE TABLE. IT SHALL BE USED FOR THE PURPOSE OF PROHIBITING OR CLEARING OBSTRUCTIONS IN ORDER TO MAINTAIN ADEQUATE SIGHT DISTANCE AT INTERSECTIONS.
6. THE LINE OF SIGHT LINE SHALL BE SHOWN AT INTERSECTIONS ON ALL LANDSCAPING PLANS, GRADING PLANS, AND TENTATIVE TRACT PLANS. IN CASES, WHERE AN INTERSECTION IS LOCATED ON A VERTICAL CURVE, A PROFILE OF THE LINE OF SIGHT MAY BE REQUIRED. THE LANDSCAPE PLAN SUBMITTED SHALL SHOW THE NAME, LOCATION AND MATURE DIMENSIONS, PLOTTED TO SCALE OF ALL THE PROPOSED TREES WITHIN THE LIMITED USE AREA.
7. OBSTRUCTIONS SUCH AS BUS SHELTERS, WALLS OR LANDSCAPING WITHIN THE LIMITED USE AREA WHICH COULD RESTRICT THE LINE OF SIGHT SHALL NOT BE PERMITTED. DRIVEWAYS ARE NOT PERMITTED WITHIN "T" INTERSECTION AREA DUE TO SIGHT DISTANCE RESTRICTION BY ENTERING VEHICLES.
 - a. PLANTS AND SHRUBS WITHIN THE LIMITED USE ARE SHALL BE OF THE TYPE THAT WILL GROW NO HIGHER THAN 30 INCHES ABOVE THE TOP OF CURB AND SHALL BE MAINTAINED AT A HEIGHT WHICH WILL ASSURE THAT THE 30 INCH MAXIMUM HEIGHT IS NOT EXCEEDED BETWEEN MAINTENANCE INTERVALS. MAINTENANCE AT A LOWER HEIGHT MAY BE REQUIRED ON CREST VERTICAL CURVES PER NOTE 6 ABOVE.
 - b. A PROFILE DETAIL OF THE LINE OF SIGHT MAY BE REQUIRED TO VERIFY 12" MINIMUM VERTICAL CLEARANCE ABOVE VARIABLE HEIGHT OBSTRUCTIONS SUCH AS SLOPE LANDSCAPING, PLANTS, SHRUBS AND PERIMETER WALLS.
 - c. THE TOE OF SLOPE MAY NOT ENCROACH INTO THE LIMITED USE AREA UNLESS THE REQUIREMENTS OF (b) ABOVE ARE SATISFIED.
 - d. IN LIEU OF PROVIDING A PROFILE OF THE LINE OF SIGHT PER NOTE 7.b. ABOVE, THE TOE OF SLOPE SHALL NOT ENCROACH INTO THE LIMITED USE AREA, AND THE LIMITED USE AREA SHALL SLOPE 2% MAXIMUM BETWEEN THE LINE OF SIGHT AND THE BACK OF SIDEWALK.
8. NO PARKING OF ANY KIND IS TO BE ALLOWED WITHIN THE LIMITED USE AREA.
9. TREES ARE GENERALLY NOT PERMITTED WITHIN ANY PORTION OF THE LIMITED USE AREA. EXCEPTIONS ARE ALLOWED WHEN THE SPECIES HAS A MATURE DIAMETER OF LESS THAN 6 INCHES.
10. MEDIAN AREAS LESS THAN FIVE (5) FEET IN WIDTH SHALL NOT BE LANDSCAPED.
11. INTERSECTION SIGHT DISTANCE AT RIGHT ANGLE INTERSECTIONS IS MEASURED FROM THE IDENTIFIED MEASUREMENT POINT A' , IN ACCORDANCE WITH THE DIAGRAMS ON SHEET 2.



APPROVED BY:

Ricardo Sandoval 10-18-06

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RICARDO SANDOVAL

DATE

REVIEWED BY: *DL*

DATE OF LAST REVISION: _____

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STD. PLAN NO. **700**

SHT **3** OF **3**

