

EL DORADO COUNTY STANDARD PLANS

ATTACHMENT 4

ADOPTED MONTH, DAY, YEAR



EL DORADO COUNTY STANDARD PLANS

FUTURE AMENDMENTS:

DATE RESOLUTION NUMBER SECTION AMENDED



EL DORADO COUNTY STANDARD PLANS

ADOPTED BY THE BOARD OF SUPERVISORS MONTH, DAY, YEAR RESOLUTION NUMBER XXX-2009

JOHN L. KNIGHT, DISTRICT I
RAY NUTTING, DISTRICT II
JAMES R. SWEENEY, DISTRICT III
RONALD BRIGGS, DISTRICT IV
NORMA SANTIAGO, DISTRICT V

PLANNING COMMISSION

LOU RAIN, DISTRICT I
DAVE PRATT, DISTRICT II
TOM HEFLIN, DISTRICT III
WALTER MATHEWS, DISTRICT IV
ALAN TOLHURST, DISTRICT V



PREPARED BY:

DEPARTMENT OF TRANSPORTATION

WITH ASSISTANCE FROM THE FOLLOWING:

DEVELOPMENT SERVICES DEPARTMENT
EL DORADO COUNTY COUNSEL
SURVEYOR'S OFFICE
SURVEYORS, ARCHITECTS, GEOLOGISTS, ENGINEERS (SAGE)
EL DORADO COUNTY FIRE PROTECTION DISTRICTS
CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION (CAL FIRE)
ECONOMIC DEVELOPMENT ADVISORY COMMITTEE (EDAC)
REGULATORY REFORM SUB-COMMITTEE



County of El Dorado Standard Plans

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Section 2 - Roads and Streets

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RD-02	Horizontal Alignment and Superelevation Requirements
	(NEW - Replaces DISM Text)
RD-03	Grade Breaks and Vertical Curvature Requirements
	(NEW - Replaces DISM Text)
RS-01	Six-Lane Divided Road (NEW)
RS-02	Six-Lane Divided Road – Bridge Sections (NEW)
RS-03	Four-Lane Divided Road (Replaces 101A, 101B)
RS-04	Four-Lane Divided Road – Bridge Sections (NEW)
RS-05	Four-Lane Undivided Road (Replaces 101A, 101B)
RS-06	Four-Lane Undivided Road – Bridge Sections (NEW)
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RS-08	Major Two-Lane Undivided Road – Bridge Section (NEW)
RS-20	Local Roads – El Dorado Hills Community Region (Replaces 101B)
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	Dorado/Shingle Springs Community Regions (Replaces 101B)
RS-22	Local Roads - Camino/Pollock Pines Community Regions (Replaces 101B)
RS-23	Local Roads – Rural Regions & Rural Centers (Replaces 101B)
RS-25	Local Roads – Tahoe Region (Replaces 101B)
RS-30	Private Roads – Rural Regions & Rural Centers (Replaces 101C)

NOTES:

- 1. The Standard Plans above replace those listed in parentheses.
- 2. RS-01, RS-02, RS-04, RS-06 and RS-08 are new Standard Plans.
- 3. Existing Standard Plans not listed above shall continue to be used where appropriate until such time that they can be updated and replaced.



REQUIREMENTS

GENERAL DESIGN



DEPARTMENT OF TRANSPORTATION DORADO COUNTY

DESIGN STANDARDS

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TRANSPORTATION WARE, P.E. NO. C61036 EL DORADO COUNTY DEPARTMENT OF

JAMES W. 1 DIRECTOR,

SUPERVISOR'S RESOLUTION NO.

BOARD OF

NOTES:

Design Practice:

Design of Streets and Highways shall be performed under the direction of a professional Civil Engineer, licensed in accordance with the California Business and Professions Code. Use of these standards or referenced documents are not a substitute for sound professional engineering design.

Reference Documents

The County of El Dorado requires the design of streets and highways in accordance with the following reference documents:

- 1. County of El Dorado Standard Plans
- 2. A Policy on Geometric Design of Highways and Streets American Association of State Highway and Transportation Officials
- 3. Caltrans Highway Design Manual, and Design Memorandums
- 4. Guidelines for Geometric Design of Very Low-Volume Local Roads (ADT <= 400) American Association of State Highway and Transportation Officials
- California Manual of Uniform Traffic Control Devices (California MUTCD) Highway Capacity Manual Special Report No. 209 Transportation Research 6.
- 7. AASHTO Roadside Design Guide
- 8. Caltrans Standard Specifications and Standard Special Provisions

The most current adopted version of these documents should be consulted when performing design of Streets and Highways.

The county engineer may approve deviations or modifications to the application of the standard plans in accordance with the Department of Transportation design exception policy.

Applicability

RD Series Standard Plans shall be used for the design of Local Roads and Collectors carrying less than 4000 ADT.

The Department of Transportation should be consulted for design standards required for General Plan Roadways and Collectors carrying more than 4000 ADT.

REQUIREMENTS

DORADO COUNTY

JAMES W. 1 DIRECTOR,

SUPERVISOR'S RESOLUTION NO.

Р BOARD

NOTES:

Horizontal Alignment

Design speed of the highway shall be controlled by the horizontal alignment whenever feasible.

Whenever possible, reversing curves shall be connected by a tangent with a minimum length of 100'.

In no case shall tangents between reversing curves be less than required for superelevation runout or runoff.

Maximum angle point without a horizontal curve is 30 minutes.

The minimum radii of horizontal curves is determined by the formula Rmin = V /15 (e+f) where:

R_{min} = minimum design curve radius in feet

V = design speed in miles per hour

e = superelevation rate in feet per foot

f = design friction factor.

Design friction factors (f) are presented in the following table:

DESIGN SPEED (MPH)	FRICTION FACTOR (f)
20	0.27
25	0.23
30	0.20
35	0.18
40	0.16
45	0.15
50	0.14

In a normal crown section, superelevation (e) value is -0.02.

Where practical and feasible, curve radii in excess of the minimum required values should be used.

<u>Superelevation</u>

Superelevation for Local Streets is discouraged.

Superelevation for collector streets and highways with ADT's below 2500 may be designed in accordance with Method 2 of Reference Document 3 (Page 148, Design for Low-Speed Urban Streets)

For new construction, a standard superelevation rate of Normal Crown, 2%, 4% or 6% should be selected.

At intersections on local streets within Community Regions, or intersections where high truck volumes are anticipated, the maximum superelevation rate is 4%.

GRADE BREAKS AND VERTICAL CURVATURE REQUIREMENTS

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SUPERVISOR'S RESOLUTION NO.

R BOARD

NOTES:

- The vertical profiles shall be designed to exceed the design speed of the horizontal alignment whenever feasible.
- Maximum Grade Break O Local Roads - 2%
- 0.5% o Collectors
- Vertical Curves

Vertical curves shall be designed based on the formula $L = K \times A$, where L is the required length of vertical curve, K is the distance required to achieve a 1% change in grade, and A is the algebraic grade difference between the incoming and outgoing profile tangents.

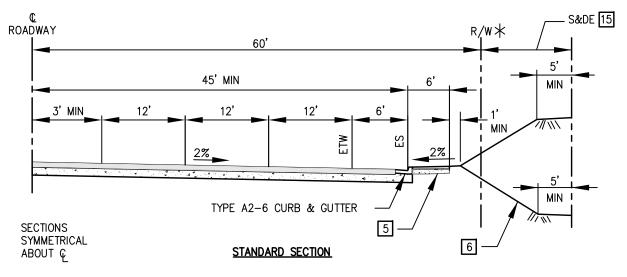
Design K values shall be selected from the following table based on design speed:

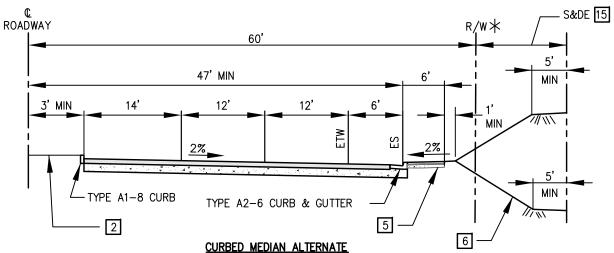
DESIGN SPEED (MPH)	STOPPING SIGHT DISTANCE (Ft)	MINIMUM K VALUE for CREST VERTICAL CURVES (Ft/%)	MINIMUM K VALUE for SAG VERTICAL CURVES (Ft/%)
20	115	7	17
25	155	12	26
30	200	19	37
35	250	29	49
40	305	44	64
45	360	61	79
50	425	84	96

Selected from Exhibit 5-2. Design Controls for Stopping Sight Distance and for Crest and Sag Vertical Curves (A Policy on Geometric Design of Highways and Streets, AASHTO, 2004)

For small changes in grade where sight distance is not infringed by the vertical curve, a minimum length vertical curve of 100' is suggested.

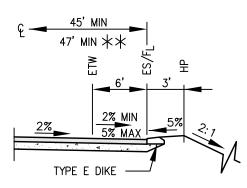
APPROVED BY:





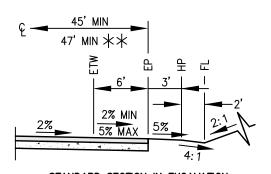
* ADDITIONAL RIGHT-OF-WAY MAY BE REQUIRED WHEN ROAD COINCIDES WITH A DESIGNATED ROUTE FOR AN ADDITIONAL PUBLIC FACILITY (I.E. PEDESTRIAN, BICYCLE, OR EQUESTRIAN TRAIL)

** DIMENSIONS FOR CURBED MEDIAN ALTERNATIVE



STANDARD SECTION IN EMBANKMENT

- RURAL FILL SECTION -SEE NOTE 9



STANDARD SECTION IN EXCAVATION

- RURAL CUT SECTION -SEE NOTE 9

NOT TO SCALE

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION DATE:

BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY

DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



SIX-LANE DIVIDED ROAD

STD. **PLAN**

RS-01 SHT 1 OF 2

REVISED - BOS 02/14/1

10-1101.3D.9

NOTES:

- . THE STANDARD SECTION SHALL BE USED EXCEPT AS NOTED BELOW. THE CURBED MEDIAN ALTERNATE MAY BE ACCEPTABLE UNDER ANY OF THE FOLLOWING CONDITIONS AND SUBJECT TO APPROVAL OF THE COUNTY.
 - . WHEN IT FILLS A GAP ON A STRETCH OF ROADWAY ALREADY BUILT WITH CURBED MEDIAN.
 - B. WHEN IT IS A SHORT SECTION NEAR INTERSECTION FOR DELINEATION AND/OR PLACING TRAFFIC CONTROL DEVICES.
 - C. WHEN NECESSARY TO CONTROL TURN MOVEMENTS AND ACCESS ON HEAVILY TRAVELED ROADS WITH MULTIPLE DRIVEWAYS.
 - D. WHEN IT IS TO BE LANDSCAPED
- 2. IF THE CURBED MEDIAN ALTERNATIVE IS USED, THE FOLLOWING APPLIES:
 - A. SEE STANDARD PLAN RS-45 FOR MEDIAN DETAILS.
 - B. SEE STANDARD PLAN MC-20 FOR TYPE A1-8 CURB.
 - C. THE MEDIAN SHALL BE PAVED WITH 2" HMA AND APPROVED SOIL STERILANT UNLESS LANDSCAPING OR OTHER SURFACING IS APPROVED BY THE COUNTY.
 - D. LANDSCAPED MEDIANS SHALL NOT BE MAINTAINED WITH ROAD FUNDS; AN APPROVED METHOD OF FUNDING MAINTENANCE SHALL BE ESTABLISHED PRIOR TO APPROVAL OF STREET IMPROVEMENT PLANS.
- 3. 6' MEDIAN WIDTH IS MINIMUM FOR A DIVIDED ROADWAY. ADDITIONAL WIDTH IS REQUIRED FOR TWO-WAY LEFT-TURN LANES (TWLTL) AND AT INTERSECTIONS WHERE LEFT-TURN POCKETS ARE NECESSARY.
- 4. SEE STANDARD PLAN MC-20 FOR CURBS (A2-6, A1-8).
- 5. SEE STANDARD PLAN MC-01 FOR SIDEWALK DETAILS. SIDEWALK LOCATION MAY VARY. MAINTAIN MIN. 6" CLEARANCE FROM R/W LINE.
- 6. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL, UNLESS A GEOTECHNICAL ENGINEER DETERMINES THAT A STEEPER SLOPE WILL BE SAFE FOR THE INTENDED USE AND WILL NOT BE SUSCEPTIBLE TO EROSION. SLOPES CONSTRUCTED FOUR HORIZONTAL TO ONE VERTICAL OR FLATTER DO NOT REQUIRE SLOPE EASEMENTS.
- 7. MAXIMUM STREET GRADES WITHOUT APPROVED DESIGN EXCEPTION:

BELOW 3000' ELEVATION:

GENERAL PLAN ROADWAYS AND COLLECTOR ROADWAYS WHERE ADT >10,000 = 8% COLLECTOR ROADWAYS WHERE ADT >4000 AND <10,000 = 10% LOCAL ROADWAYS AND COLLECTOR ROADWAYS WHERE ADT <4000 = 12%

ABOVE 3000' ELEVATION:

10% ALL ROADWAYS

- MINIMUM STREET FLOW LINE GRADES SHALL BE 0.5% REVERSE GRADE, VERTICAL CURVES EXCEPTED.
- 9. ROADS IN RURAL REGIONS, RURAL CENTERS, AND THE CAMINO/POLLOCK PINES COMMUNITY REGION ARE NOT REQUIRED TO HAVE PCC CURB, GUTTER AND SIDEWALK. SHOULDERS SHALL BE PAVED TO THE WIDTH SHOWN (6'). ALTERNATE DITCH SECTIONS MAY BE APPROVED OR REQUIRED.
- 10. STRUCTURAL SECTION SHALL BE BASED ON "R" VALUE AND "T.I.". DESIGN TO BE SUBMITTED TO DOT FOR REVIEW AND APPROVAL.
- 11. HOT MIX ASPHALT (HMA) SHALL BE TYPE A, 1/2"; AGGREGATE BASE (AB) SHALL BE CLASS 2, 3/4"
- 12. THE TOP 6" OF SUBGRADE AND ALL BASE AND SUBBASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
- 13. SUBGRADE ENHANCEMENT GEOTEXTILE SHOULD BE CONSIDERED FOR NATIVE SOIL R-VALUES LESS THAN 20.
- 14. FOUNDATION SLOPES STEEPER THAN FIVE HORIZONTAL TO ONE VERTICAL ARE TO BE KEYED WHEN PLACING EMBANKMENT FILL. KEYS PER GRADING REQUIREMENTS.
- 15. SLOPE & DRAINAGE EASEMENTS (S&DE) SHALL EXTEND 5' MIN. BEYOND HINGE POINTS, TOE OF SLOPES, AND DRAINAGE STRUCTURES. SEE STANDARD PLAN RS—11 FOR ADDITIONAL SLOPE DETAILS.

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SIX-LANE DIVIDED ROAD



ENT OF TRANSPORTATION STANDARDS

COUNTY

DATE:

JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

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REVISED - BOS 02/14/11

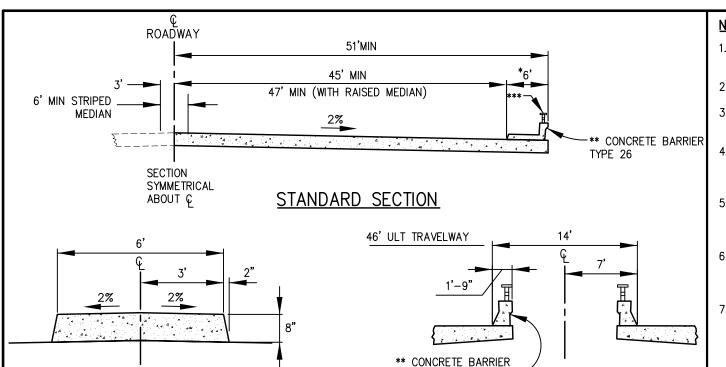
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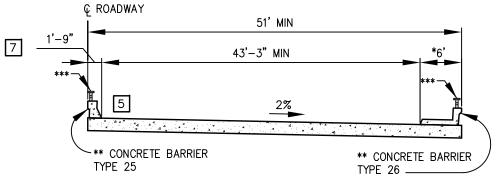


TYPE 25 -

NOTES:

- ULTIMATE BRIDGE TYPICAL SECTIONS TO BE APPROVED BY THE COUNTY.
- 2. BRIDGE TYPE TO BE APPROVED BY THE COUNTY.
- MEDIAN WIDTH SUBJECT TO VARIATION DEPENDING ON INTERSECTION PROXIMITY.
- CURBED MEDIAN OR OPEN MEDIAN ALTERNATE TO BE USED ONLY WHEN APPROACHING ROAD ALSO HAS A RAISED MEDIAN.
- WHERE BIKE LANE IS ADJACENT TO TYPE 25
 BARRIER, USE CALTRANS BRIDGE STANDARD DETAIL
 SHEET XS16-500e, "TUBULAR BICYCLE RAILING".
- 6. WIDTH OF BRIDGE STRUCTURE SHALL BE CONSISTENT WITH APPROVED ROADWAY UNLESS OTHERWISE APPROVED BY COUNTY.
- 7. ALTERNATE DESIGNS ALLOWED/REQURED WHERE FUTURE MEDIAN IS PLANNED.

- * RAISED SIDEWALK TO BE PROVIDED WHEN WARRANTED
- ** SEE CALTRANS STANDARD PLANS
- *** TYPE 7 CHAIN LINK FENCE RAILING REQUIRED IN LIEU OF TUBULAR HAND RAILING WHEN STRUCTURE SPANS OVER A PUBLIC ROADWAY



OPEN MEDIAN

ALTERNATE

TWO LANES

(PHASED CONSTRUCTION-INITIAL PHASE)

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DATE: DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

CURBED MEDIAN

ALTERNATE

EL DORADO COUNTY

DEPARTMENT OF TRANSPORTATION

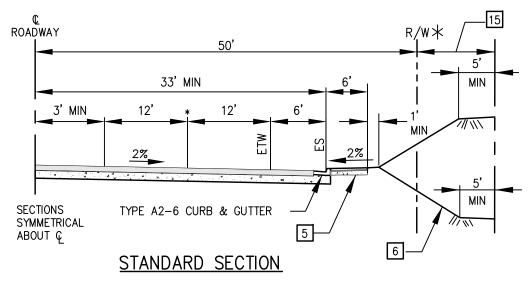
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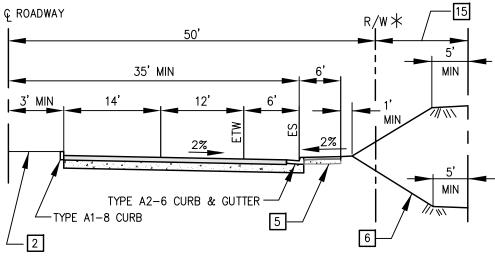


SIX-LANE
DIVIDED ROAD
BRIDGE SECTIONS
REVISED - ROS 02/14/11

STD. PLAN

RS-02

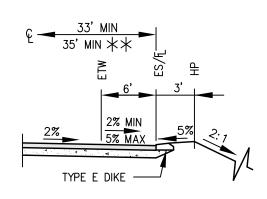




CURBED MEDIAN ALTERNATE

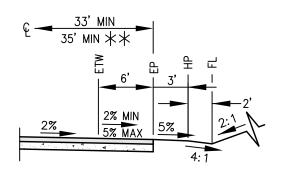
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** DIMENSIONS FOR CURBED MEDIAN ALTERNATIVE



STANDARD SECTION IN EMBANKMENT

- RURAL FILL SECTION -SEE NOTE 9



STANDARD SECTION IN EXCAVATION

- RURAL CUT SECTION -SEE NOTE 9

NOT TO SCALE

APPROVED BY: JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY

DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



FOUR-LANE DIVIDED ROAD

STD. PLAN

RS-03

REVISED - BOS 02/14/11 SHT 1 0F 2

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NOTES:

- THE STANDARD SECTION SHALL BE USED EXCEPT AS NOTED BELOW. THE CURBED MEDIAN ALTERNATE MAY BE ACCEPTABLE
 UNDER ANY OF THE FOLLOWING CONDITIONS AND SUBJECT TO APPROVAL OF THE COUNTY.
 - A. WHEN IT FILLS A GAP ON A STRETCH OF ROADWAY ALREADY BUILT WITH CURBED MEDIAN.
 - B. WHEN IT IS A SHORT SECTION NEAR INTERSECTION FOR DELINEATION AND/OR PLACING TRAFFIC CONTROL DEVICES.
 - C. WHEN NECESSARY TO CONTROL TURN MOVEMENTS AND ACCESS ON HEAVILY TRAVELED ROADS WITH MULTIPLE DRIVEWAYS.
 - D. WHEN IT IS TO BE LANDSCAPED
- 2. IF THE CURBED MEDIAN ALTERNATIVE IS USED, THE FOLLOWING APPLIES:
 - A. SEE STANDARD PLAN RS-45 FOR MEDIAN DETAILS.
 - B. SEE STANDARD PLAN MC-20 FOR TYPE A1-8 CURB.
 - C. THE MEDIAN SHALL BE PAVED WITH 2" HMA AND APPROVED SOIL STERILANT UNLESS LANDSCAPING OR OTHER SURFACING IS APPROVED BY THE COUNTY.
 - D. LANDSCAPED MEDIANS SHALL NOT BE MAINTAINED WITH ROAD FUNDS; AN APPROVED METHOD OF FUNDING MAINTENANCE SHALL BE ESTABLISHED PRIOR TO APPROVAL OF STREET IMPROVEMENT PLANS.
- 3. 6' MEDIAN WIDTH IS MINIMUM FOR A DIVIDED ROADWAY. ADDITIONAL WIDTH IS REQUIRED FOR TWO-WAY LEFT-TURN LANES (TWLTL) AND AT INTERSECTIONS WHERE LEFT-TURN POCKETS ARE NECESSARY.
- 4. SEE STANDARD PLAN MC-20 FOR CURBS (A2-6, A1-8).
- SEE STANDARD PLAN MC-01 FOR SIDEWALK DETAILS. SIDEWALK LOCATION MAY VARY. MAINTAIN MIN. 6" CLEARANCE FROM R/W LINE.
- 6. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL, UNLESS A GEOTECHNICAL ENGINEER DETERMINES THAT A STEEPER SLOPE WILL BE SAFE FOR THE INTENDED USE AND WILL NOT BE SUSCEPTIBLE TO EROSION. SLOPES CONSTRUCTED FOUR HORIZONTAL TO ONE VERTICAL OR FLATTER DO NOT REQUIRE SLOPE EASEMENTS.
- 7. MAXIMUM STREET GRADES WITHOUT APPROVED DESIGN EXCEPTION:

BELOW 3000' ELEVATION:

GENERAL PLAN ROADWAYS AND COLLECTOR ROADWAYS WHERE ADT >10,000 = 8% COLLECTOR ROADWAYS WHERE ADT >4000 AND <10,000 = 10% LOCAL ROADWAYS AND COLLECTOR ROADWAYS WHERE ADT <4000 = 12%

ABOVE 3000' ELEVATION:

10% ALL ROADWAYS

- 8. MINIMUM STREET FLOW LINE GRADES SHALL BE 0.5% REVERSE GRADE, VERTICAL CURVES EXCEPTED.
- 9. ROADS IN RURAL REGIONS, RURAL CENTERS, AND THE CAMINO/POLLOCK PINES COMMUNITY REGION ARE NOT REQUIRED TO HAVE PCC CURB, GUTTER AND SIDEWALK. SHOULDERS SHALL BE PAVED TO THE WIDTH SHOWN (6'). ALTERNATE DITCH SECTIONS MAY BE APPROVED OR REQUIRED.
- 10. STRUCTURAL SECTION SHALL BE BASED ON "R" VALUE AND "T.I.". DESIGN TO BE SUBMITTED TO DOT FOR REVIEW AND APPROVAL.
- 11. HOT MIX ASPHALT (HMA) SHALL BE TYPE A, 1/2"; AGGREGATE BASE (AB) SHALL BE CLASS 2, 3/4"
- 12. THE TOP 6" OF SUBGRADE AND ALL BASE AND SUBBASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
- 13. SUBGRADE ENHANCEMENT GEOTEXTILE SHOULD BE CONSIDERED FOR NATIVE SOIL R-VALUES LESS THAN 20.
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- 15. SLOPE & DRAINAGE EASEMENTS (S&DE) SHALL EXTEND 5' MIN. BEYOND HINGE POINTS, TOE OF SLOPES, AND DRAINAGE STRUCTURES. SEE STANDARD PLAN RS—11 FOR ADDITIONAL SLOPE DETAILS.

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R

FOUR-LANE



DESIGN STANDARDS

COUNTY

DORADO

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DATE:

W. WARE, P.E. NO. C61036)R, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

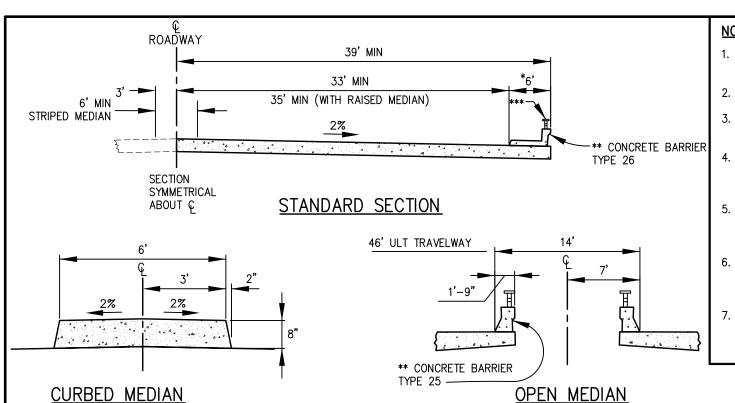
RESOLUTION

SUPERVISOR'S

P

APPROVED BY:

DRAFT (12-08-10)



NOTES:

- ULTIMATE BRIDGE TYPICAL SECTIONS TO BE APPROVED BY THE COUNTY.
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- 5. WHERE BIKE LANE IS ADJACENT TO TYPE 25
 BARRIER, USE CALTRANS BRIDGE STANDARD DETAIL
 SHEET XS16-500e, "TUBULAR BICYCLE RAILING"
- 6. WIDTH OF BRIDGE STRUCTURE SHALL BE CONSISTENT WITH APPROVED ROADWAY UNLESS OTHERWISE APPROVED BY COUNTY.
- 7. ALTERNATE DESIGNS ALLOWED/REQURED WHERE FUTURE MEDIAN IS PLANNED.

* RAISED SIDEWALK TO BE PROVIDED WHEN

** SEE CALTRANS STANDARD PLANS

WARRANTED

*** TYPE 7 CHAIN LINK FENCE RAILING REQUIRED IN LIEU OF TUBULAR HAND RAILING WHEN STRUCTURE SPANS OVER A PUBLIC ROADWAY

ALTERNATE © ROADWAY 42' 34'-3" *** *** CONCRETE BARRIER TYPE 25 *** CONCRETE BARRIER TYPE 26

TWO LANES

(PHASED CONSTRUCTION-INITIAL PHASE)

NOT TO SCALE

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DATE: DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

ALTERNATE

EL DORADO COUNTY

DEPARTMENT OF TRANSPORTATION

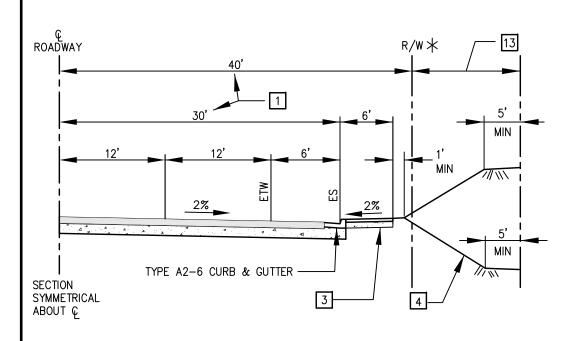
DESIGN STANDARDS

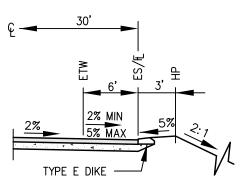


FOUR-LANE DIVIDED ROAD BRIDGE SECTIONS STD. PLAN

RS-04

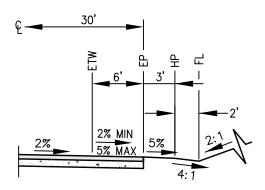
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STANDARD SECTION IN EMBANKMENT

- RURAL FILL SECTION -SEE NOTE 7



STANDARD SECTION IN EXCAVATION

RURAL CUT SECTION —
 SEE NOTE 7

* ADDITIONAL RIGHT-OF-WAY MAY BE REQUIRED WHEN ROAD COINCIDES WITH A DESIGNATED ROUTE FOR AN ADDITIONAL PUBLIC FACILITY (I.E. PEDESTRIAN, BICYCLE, OR EQUESTRIAN TRAIL)

NOT TO SCALE

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036
DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY

DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



FOUR-LANE UNDIVIDED ROAD

STD. PLAN

RS-05

REVISED - BOS 02/14/1

SHT 1 OF 2

10-1101.3D.15

NOTES:

- PROVIDE FOR A TWELVE (12') FOOT LEFT TURN POCKET WITHIN 400' OF ANY INTERSECTION WITH A GENERAL PLAN DESIGNATED ROAD OR HIGH-VOLUME (GREATER THAN 400 PEAK HOUR) LOCAL ROAD, UNLESS OTHERWISE APPROVED BY THE COUNTY.
- 2. SEE STANDARD PLAN MC-20 FOR CURBS (A2-6, A1-8).
- 3. SEE STANDARD PLAN MC-01 FOR SIDEWALK DETAILS. SIDEWALK LOCATIONS MAY VARY. MAINTAIN 6" MIN. CLEARANCE FROM R/W LINE.
- CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL, UNLESS A GEOTECHNICAL ENGINEER DETERMINES THAT A STEEPER SLOPE WILL BE SAFE FOR THE INTENDED USE AND WILL NOT BE SUSCEPTIBLE TO EROSION. SLOPES CONSTRUCTED FOUR HORIZONTAL TO ONE VERTICAL OR FLATTER DO NOT REQUIRE SLOPE EASEMENTS.
- 5. MAXIMUM STREET GRADES WITHOUT APPROVED DESIGN EXCEPTION:

BELOW 3000' ELEVATION:

GENERAL PLAN ROADWAYS AND COLLECTOR ROADWAYS WHERE ADT >10.000 = 8% COLLECTOR ROADWAYS WHERE ADT >4000 AND <10,000 = 10% LOCAL ROADWAYS AND COLLECTOR ROADWAYS WHERE ADT <4000 = 12%

ABOVE 3000' ELEVATION:

10% ALL ROADWAYS

- MINIMUM STREET FLOW LINE GRADES SHALL BE 0.5% REVERSE GRADE VERTICAL CURVES EXCEPTED.
- ROADS IN RURAL REGIONS, RURAL CENTERS, AND THE CAMINO/POLLOCK PINES COMMUNITY REGION ARE NOT REQUIRED TO HAVE PCC CURB, GUTTER AND SIDEWALK. SHOULDERS SHALL BE PAVED TO THE WIDTH SHOWN (6'). ALTERNATE DITCH SECTIONS MAY BE APPROVED OR REQUIRED.
- 8. STRUCTURAL SECTION SHALL BE BASED ON "R" VALUE AND "T.I.". DESIGN TO BE SUBMITTED TO DOT FOR REVIEW AND APPROVAL.
- 9. HOT MIX ASPHALT (HMA) SHALL BE TYPE A, 1/2"; AGGREGATE BASE (AB) SHALL BE CLASS 2, 3/4"
- 10. THE TOP 6" OF SUBGRADE AND ALL BASE AND SUBBASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
- 11. SUBGRADE ENHANCEMENT GEOTEXTILE SHOULD BE CONSIDERED FOR NATIVE SOIL R-VALUES LESS THAN 20.
- 12. FOUNDATION SLOPES STEEPER THAN FIVE HORIZONTAL TO ONE VERTICAL SHALL BE KEYED WHEN PLACING EMBANKMENT FILL, KEYS PER GRADING REQUIREMENTS.
- 13. SLOPE & DRAINAGE EASEMENTS (S&DE) SHALL EXTEND 5' MIN. BEYOND HINGE POINTS, TOE OF SLOPES, AND DRAINAGE STRUCTURES. SEE STANDARD PLAN RS-11 FOR ADDITIONAL SLOPE DETAILS.

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

DATE:

DESIGN STANDARDS

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

FOUR-LANE UNDIVIDED ROAD

STD. **PLAN**

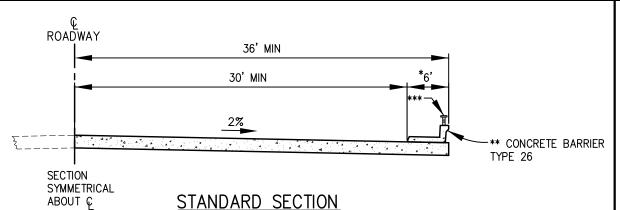
SHT 2 OF 2

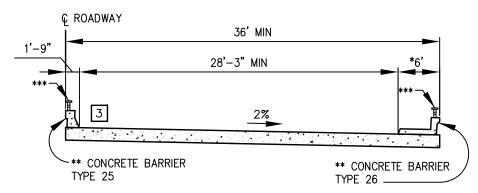
RS-05

REVISED - BOS 02/14/1

10-1101.3D.16

DRAFT (12-08-10)





TWO LANES

(PHASED CONSTRUCTION-INITIAL PHASE)

- * RAISED SIDEWALK TO BE PROVIDED WHEN WARRANTED
- ** SEE CALTRANS STANDARD PLANS
- *** TYPE 7 CHAIN LINK FENCE RAILING REQUIRED IN LIEU OF TUBULAR HAND RAILING WHEN STRUCTURE SPANS OVER A PUBLIC ROADWAY

NOT TO SCALE

NOTES:

- ULTIMATE BRIDGE TYPICAL SECTIONS TO BE APPROVED BY THE COUNTY.
- 2. BRIDGE TYPE TO BE APPROVED BY THE COUNTY.
- WHERE BIKE LANE IS ADJACENT TO TYPE 25
 BARRIER, USE CALTRANS BRIDGE STANDARD DETAIL
 SHEET XS16-500e, "TUBULAR BICYCLE RAILING".
 ADDITIONAL WIDTH MAY BE REQUIRED.
- 4. WIDTH OF BRIDGE STRUCTURE SHALL BE CONSISTENT WITH APPROVED ROADWAY UNLESS OTHERWISE APPROVED BY COUNTY.

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DATE: DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

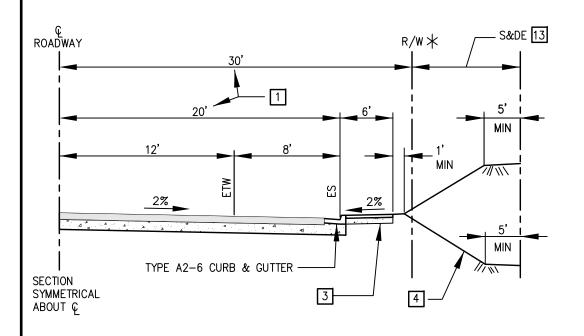
DESIGN STANDARDS

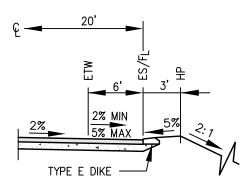


FOUR-LANE UNDIVIDED ROAD BRIDGE SECTIONS STD. PLAN

RS-06

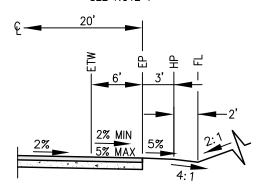
REVISED - BOS 02/14/11





STANDARD SECTION IN EMBANKMENT

- RURAL FILL SECTION -SEE NOTE 7



STANDARD SECTION IN EXCAVATION

- RURAL CUT SECTION -SEE NOTE 7

* ADDITIONAL RIGHT-OF-WAY MAY BE REQUIRED WHEN ROAD COINCIDES WITH A DESIGNATED ROUTE FOR AN ADDITIONAL PUBLIC FACILITY (I.E. PEDESTRIAN, BICYCLE, OR EQUESTRIAN TRAIL)

NOT TO SCALE

APPROVED BY:

DATE: JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY

DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



MAJOR TWO-LANE UNDIVIDED ROAD

PLAN RS-07

STD.

REVISED - ROS 02/14/1

SHT 1 OF 2

10-1101.3D.18

NOTES:

- PROVIDE FOR A TWELVE (12') FOOT LEFT TURN POCKET WITHIN 400' OF ANY INTERSECTION WITH A GENERAL PLAN DESIGNATED ROAD OR HIGH-VOLUME (GREATER THAN 400 PEAK HOUR) LOCAL ROAD, UNLESS OTHERWISE APPROVED BY THE COUNTY.
- 2. SEE STANDARD PLAN MC-20 FOR CURBS (A2-6, A1-8).
- 3. SEE STANDARD PLAN MC-01 FOR SIDEWALK DETAILS. SIDEWALK LOCATIONS MAY VARY. MAINTAIN 6" MIN. CLEARANCE FROM R/W LINE.
- CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL, UNLESS A GEOTECHNICAL ENGINEER DETERMINES THAT A STEEPER SLOPE WILL BE SAFE FOR THE INTENDED USE AND WILL NOT BE SUSCEPTIBLE TO EROSION. SLOPES CONSTRUCTED FOUR HORIZONTAL TO ONE VERTICAL OR FLATTER DO NOT REQUIRE SLOPE EASEMENTS.
- MAXIMUM STREET GRADES WITHOUT APPROVED DESIGN EXCEPTION:

BELOW 3000' ELEVATION:

GENERAL PLAN ROADWAYS AND COLLECTOR ROADWAYS WHERE ADT >10,000 = 8% COLLECTOR ROADWAYS WHERE ADT >4000 AND <10,000 = 10% LOCAL ROADWAYS AND COLLECTOR ROADWAYS WHERE ADT <4000 = 12%

ABOVE 3000' ELEVATION:

10% ALL ROADWAYS

- MINIMUM STREET FLOW LINE GRADES SHALL BE 0.5%. REVERSE GRADE VERTICAL CURVES EXCEPTED.
- ROADS IN RURAL REGIONS, RURAL CENTERS, AND THE CAMINO/POLLOCK PINES COMMUNITY REGION ARE NOT REQUIRED TO HAVE PCC CURB, GUTTER AND SIDEWALK. SHOULDERS SHALL BE PAVED TO THE WIDTH SHOWN (6'). ALTERNATE DITCH SECTIONS MAY BE APPROVED OR REQUIRED.
- STRUCTURAL SECTION SHALL BE BASED ON "R" VALUE AND "T.I.". DESIGN TO BE SUBMITTED TO DOT FOR REVIEW AND APPROVAL.

DATE:

- HOT MIX ASPHALT (HMA) SHALL BE TYPE A, 1/2": AGGREGATE BASE (AB) SHALL BE CLASS 2, 3/4"
- 10. THE TOP 6" OF SUBGRADE AND ALL BASE AND SUBBASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
- 11. SUBGRADE ENHANCEMENT GEOTEXTILE SHOULD BE CONSIDERED FOR NATIVE SOIL R-VALUES LESS THAN 20.
- 12. FOUNDATION SLOPES STEEPER THAN FIVE HORIZONTAL TO ONE VERTICAL SHALL BE KEYED WHEN PLACING EMBANKMENT FILL, KEYS PER GRADING REQUIREMENTS.
- 13. SLOPE & DRAINAGE EASEMENTS (S&DE) SHALL EXTEND 5' MIN. BEYOND HINGE POINTS. TOE OF SLOPES. AND DRAINAGE STRUCTURES. SEE STANDARD PLAN RS—11 FOR ADDITIONAL SLOPE DETAILS.

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036
DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



MAJOR TWO-LANE UNDIVIDED ROAD

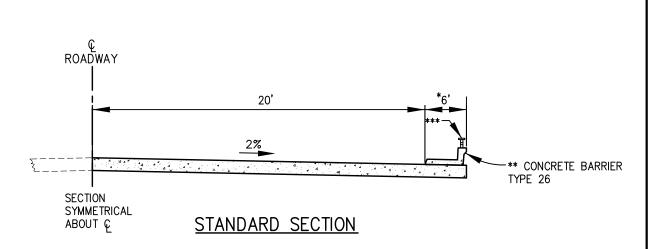
STD. **PLAN**

SHT 2 OF 2

RS-07

REVISED - BOS 02/14/1

DRAFT (12-08-10)



NOTES:

- 1. ULTIMATE BRIDGE TYPICAL SECTIONS TO BE APPROVED BY THE COUNTY.
- 2. BRIDGE TYPE TO BE APPROVED BY THE COUNTY.
- WIDTH OF BRIDGE STRUCTURE SHALL BE CONSISTENT WITH APPROVED ROADWAY UNLESS OTHERWISE APPROVED BY COUNTY.

- RAISED SIDEWALK TO BE PROVIDED WHEN WARRANTED
- ** SEE CALTRANS STANDARD PLANS
- *** TYPE 7 CHAIN LINK FENCE RAILING REQUIRED IN LIEU OF TUBULAR HAND RAILING WHEN STRUCTURE SPANS OVER A PUBLIC ROADWAY

NOT TO SCALE

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION DATE:

BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY

DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



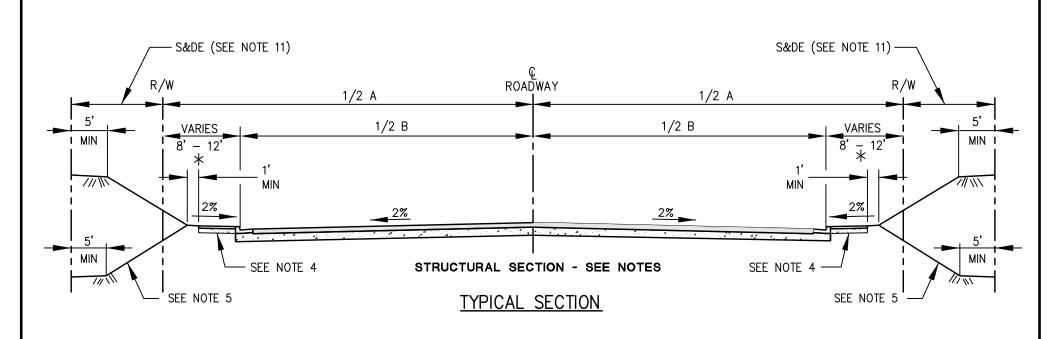
MAJOR TWO-LANE UNDIVIDED ROAD **BRIDGE SECTIONS**

STD. **PLAN**

REVISED - BOS 02/14/1

10-1101.3D.20

RS-08



LEGEND

A = WIDTH OF RIGHT OF WAY IN FEET B = WIDTH OF ROADWAY IN FEET * ADDITIONAL RIGHT OF WAY MAY BE REQUIRED WHEN ROAD COINCIDES WITH A DESIGNATED ROUTE FOR AN ADDITIONAL PUBLIC FACILITY (I.E. PEDESTRIAN, BICYCLE, OR EQUESTRIAN TRAIL)

AVG DAILY TRAFFIC	CLASSIFICATION	TYPICAL ACCESS BY:	RESIDENTIAL FRONTAGE ALLOWED	MINIMUM DESIGN SPEED	А	В	SIDEWALK	MAX GRADE	CURB TYPE
4000-10,000	NON-RES. COLLECTOR	NON-RES. LOCAL STREETS AND DRIVEWAY BOTH SIDES	N/A	35	70	54	BOTH SIDES	10%	A2-6
<4,000	NON-RES. LOCAL	NON-RES. LOCAL STREETS AND DRIVEWAY BOTH SIDES	N/A	25	60	44	BOTH SIDES	10%	A2-6
4000-10,000	COLLECTOR	LOCAL STREETS	NONE	35-45	60	40	BOTH SIDES	10%	A2-6
2500-4000	COLLECTOR	LOCAL STREETS	NONE	35	60	36	BOTH SIDES	12%	A2-6
500-2500	LOCAL	LOCAL STREETS AND DRIVEWAY BOTH SIDES	BOTH SIDES	25	60	36	BOTH SIDES	12%	C-2
<500	LOCAL	DRIVEWAY BOTH SIDES	BOTH SIDES	25	50	32	BOTH SIDES	12%	C-2

→ MAXIMUM GRADE FOR ALL STREETS ABOVE 3000' ELEVATIONS = 10%

DATE:

NOT TO SCALE

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



LOCAL ROADS
EL DORADO HILLS
COMMUNITY REGION
REVISED - BOS 02/14/1

PLAN RS-20

STD.

SHT 1 OF 2

GENERAL NOTES:

- SIDEWALKS SHALL BE CONSTRUCTED WHERE REQUIRED BY THE LAND DEVELOPMENT MANUAL.
- 2. BASIC CRITERIA:
 - 12' TRAVEL LANES FOR VOLUMES GREATER THAN 500 ADT.
 - 10' MINIMUM TRAVEL LANES FOR VOLUMES LESS THAN 500 ADT.
 - ROADWAY WIDTH, B, SHALL BE 50' WITHIN 100' OF CURB RETURN OF AN INTERSECTION WITH A HIGHER CLASSIFICATION ROAD. CURB & GUTTER TRANSITION SHALL BE CONSTRUCTED BETWEEN 100' & 140' FROM CURB RETURN. FOR NON-RESIDENTIAL ROADWAYS, AND LOCAL COLLECTOR ROADWAYS, PAVEMENT CROWNLINE SHALL BE CENTERED BETWEEN CURBS.
- MINIMUM STREET FLOW LINE GRADE SHALL BE 0.5%, REVERSE GRADE VERTICAL CURVES EXCEPTED.
- 4. SEE STANDARD PLAN MC-01 FOR SIDEWALK DETAILS. SIDEWALK LOCATION MAY VARY. MAINTAIN MIN. 6" CLEARANCE FROM R/W LINE.
- 5. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL, UNLESS A GEOTECHNICAL ENGINEER DETERMINES THAT A STEEPER SLOPE WILL BE SAFE FOR THE INTENDED USE AND WILL NOT BE SUSCEPTIBLE TO EROSION, SLOPES CONSTRUCTED FOUR HORIZONTAL TO ONE VERTICAL OR FLATTER DO NOT REQUIRE SLOPE EASEMENTS.
- 6. STRUCTURAL SECTION SHALL BE BASED ON "R" VALUE AND "T.I.". DESIGN TO BE SUBMITTED TO DOT FOR REVIEW AND APPROVAL.
- 7. HOT MIX ASPHALT (HMA) SHALL BE TYPE A, 1/2"; AGGREGATE BASE (AB) SHALL BE CLASS 2, 3/4".
- THE TOP 6" OF SUBGRADE AND ALL BASE AND SUB-BASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
- 9. SUBGRADE ENHANCEMENT GEOTEXTILE SHOULD BE CONSIDERED FOR NATIVE SOIL R-VALUES LESS THAN 20.
- 10. SLOPES OVER FIVE HORIZONTAL TO ONE VERTICAL SHALL BE KEYED WHEN PLACING EMBANKMENT FILL, KEYS PER GRADING REQUIREMENTS.
- 11. SLOPE AND DRAINAGE EASEMENTS (S&DE) SHALL EXTEND 5' BEYOND HINGE POINTS. TOE OF SLOPES, AND DRAINAGE STRUCTURES.
- 12. DESIGN SPEED FOR LOCAL STREETS WITH RESIDENTIAL FRONTAGE SHALL BE 25 MILES PER HOUR. DESIGN SPEED FOR STREETS WITHOUT RESIDENTIAL FRONTAGE SHALL BE 35 MILES PER HOUR. STREET ALIGNMENT AND PROFILE SHALL COMPLY WITH THE CRITERIA FOR SAFE STOPPING SIGHT DISTANCE FOR THESE DESIGN SPEEDS.
- 13. STREET SYSTEMS SHOULD BE LAID OUT TO DISCOURAGE TRAVEL AT HIGHER THAN DESIGN SPEEDS BY INCORPORATING CURVES, KNUCKLES AND "T" INTERSECTIONS AT NO MORE THAN 1000' INTERVALS, DEPENDING ON TERRAIN. CONTINUOUS STRAIGHT STREETS CONNECTING TWO ARTERIAL HIGHWAYS, WHICH WOULD ACT AS A "SHORTCUT" THROUGH A RESIDENTIAL AREA, SHALL BE AVOIDED.
- 14. STREETS SHALL INTERSECT AT RIGHT ANGLES WHEREVER POSSIBLE. STREETS SHALL NOT INTERSECT AT GREATER THAN 20° SKEW TO RIGHT ANGLE. FOUR—LEGGED INTERSECTIONS SHALL BE AVOIDED EXCEPT AT SIGNALIZED LOCATIONS. INTERSECTIONS SHALL HAVE ADEQUATE SIGHT DISTANCE IN CONFORMANCE WITH STD PLAN RS—40. INTERSECTIONS ON CREST VERTICAL CURVES OR ON THE INSIDE OF HORIZONTAL CURVES SHALL BE AVOIDED. THE MINIMUM DISTANCE BETWEEN INTERSECTIONS ON SHALL BE 300 FEET ON COLLECTOR ROADWAYS AND 250 FEET ON LOCAL ROADWAYS MEASURED FROM CENTERLINE.
- 15. THE LOCATION OF ANY INTERSECTION SHALL BE REVIEWED BY THE COUNTY ENGINEER TO DETERMINE SAFETY AND COMPATIBILITY FOR SIGNAL PROGRESSION. TRAFFIC AT ANY INTERSECTION MAY BE ULTIMATELY RESTRICTED TO RIGHT TURN IN AND OUT ONLY.
 - 16. FUELS REDUCTION ZONE, OF 20 FEET ON EITHER SIDE OF THE ROAD CENTERLINE, MUST BE CLEARED INCLUDING THE FOLLOWING:
 - ALL BRUSH REMOVED.
 - · ALL TREES LIMBED UP TO 10 FEET.
 - WEEDS AND GRASS MOWED TO A 2 INCH STUBBLE.
 - 15 FOOT VERTICAL CLEARANCE CREATED DIRECTLY ABOVE THE HORIZONTALLY CLEARED AREA.

DATE:

NOT TO SCALE

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

DESIGN STANDARDS

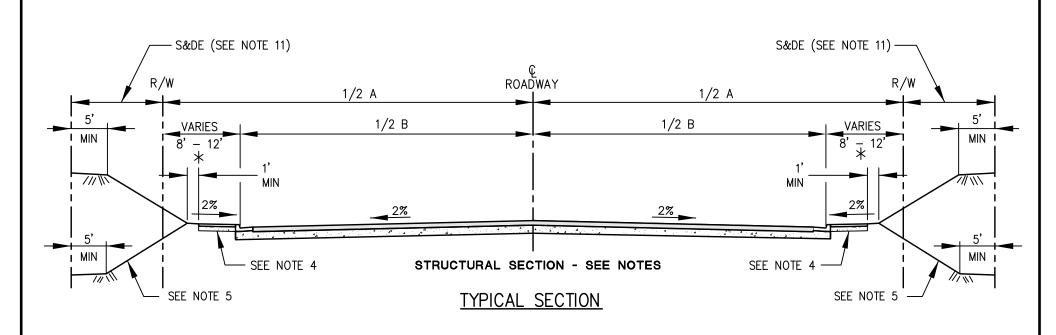
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION



LOCAL ROADS EL DORADO HILLS COMMUNITY REGION STD. PLAN

RS-20

REVISED - BOS 02/14/11 1 SHT 2 OF 2



LEGEND

A = WIDTH OF RIGHT OF WAY IN FEET B = WIDTH OF ROADWAY IN FEET * ADDITIONAL RIGHT OF WAY MAY BE REQUIRED WHEN ROAD COINCIDES WITH A DESIGNATED ROUTE FOR AN ADDITIONAL PUBLIC FACILITY (I.E. PEDESTRIAN, BICYCLE, OR EQUESTRIAN TRAIL)

AVG DAILY TRAFFIC	CLASSIFICATION	TYPICAL ACCESS BY:	RESIDENTIAL FRONTAGE ALLOWED	MINIMUM DESIGN SPEED	А	В	SIDEWALK	MAX GRADE	CURB TYPE
4000-10,000	NON-RES. COLLECTOR	NON-RES. LOCAL STREETS AND DRIVEWAY BOTH SIDES	N/A	35	70	54	BOTH SIDES	10%	A2-6
<4,000	NON-RES. LOCAL	NON-RES. LOCAL STREETS AND DRIVEWAY BOTH SIDES	N/A	25	60	44	BOTH SIDES	10%	A2-6
4000-10,000	COLLECTOR	LOCAL STREETS	NONE	35-45	60	40	BOTH SIDES	10%	A2-6
2500-4000	COLLECTOR	LOCAL STREETS	NONE	35	60	36	BOTH SIDES	12%	A2-6
500-2500	LOCAL	LOCAL STREETS AND DRIVEWAY BOTH SIDES	BOTH SIDES	25	50	32	BOTH SIDES	12%	C-2
<500	LOCAL	DRIVEWAY BOTH SIDES	BOTH SIDES	25	50	28	BOTH SIDES	12%	C-2

♦ MAXIMUM GRADE FOR ALL STREETS ABOVE 3000' ELEVATIONS = 10%

DATE:

NOT TO SCALE

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



LOCAL ROADS
CAMERON PARK/PLACERVILLE/
DIAMOND SPRINGS/EL DORADO/
SHINGLE SPRINGS
COMMUNITY REGIONS
REVISED - BOS 02/14/12

STD. PLAN

RS-21

SHT 1 OF 2

GENERAL NOTES:

- 1. SIDEWALKS SHALL BE CONSTRUCTED WHERE REQUIRED BY THE LAND DEVELOPMENT MANUAL.
- BASIC CRITERIA:
 - 12' TRAVEL LANES FOR VOLUMES GREATER THAN 500 ADT.
 - 10' MINIMUM TRAVEL LANES FOR VOLUMES LESS THAN 500 ADT.
 - ROADWAY WIDTH, B, SHALL BE 50' WITHIN 100' OF CURB RETURN OF AN INTERSECTION WITH A HIGHER CLASSIFICATION ROAD. CURB & GUTTER TRANSITION SHALL BE CONSTRUCTED BETWEEN 100' & 140' FROM CURB RETURN. FOR NON-RESIDENTIAL ROADWAYS, AND LOCAL COLLECTOR ROADWAYS, PAVEMENT CROWNLINE SHALL BE CENTERED BETWEEN CURBS.
- MINIMUM STREET FLOW LINE GRADE SHALL BE 0.5% REVERSE GRADE VERTICAL CURVES EXCEPTED.
- 4. SEE STANDARD PLAN MC-01 FOR SIDEWALK DETAILS. SIDEWALK LOCATION MAY VARY. MAINTAIN MIN. 6" CLEARANCE FROM R/W LINE.
- 5. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL, UNLESS A GEOTECHNICAL ENGINEER DETERMINES THAT A STEEPER SLOPE WILL BE SAFE FOR THE INTENDED USE AND WILL NOT BE SUSCEPTIBLE TO EROSION. SLOPES CONSTRUCTED FOUR HORIZONTAL TO ONE VERTICAL OR FLATTER DO NOT REQUIRE SLOPE EASEMENTS.
- 6. STRUCTURAL SECTION SHALL BE BASED ON "R" VALUE AND "T.I.". DESIGN TO BE SUBMITTED TO DOT FOR REVIEW AND APPROVAL.
- HOT MIX ASPHALT (HMA) SHALL BE TYPE A. 1/2": AGGREGATE BASE (AB) SHALL BE CLASS 2. 3/4".
- THE TOP 6" OF SUBGRADE AND ALL BASE AND SUB-BASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
- SUBGRADE ENHANCEMENT GEOTEXTILE SHOULD BE CONSIDERED FOR NATIVE SOIL R-VALUES LESS THAN 20.
- 10. SLOPES OVER FIVE HORIZONTAL TO ONE VERTICAL SHALL BE KEYED WHEN PLACING EMBANKMENT FILL. KEYS PER GRADING REQUIREMENTS.
- 11. SLOPE AND DRAINAGE EASEMENTS (S&DE) SHALL EXTEND 5' BEYOND HINGE POINTS, TOE OF SLOPES, AND DRAINAGE STRUCTURES.
- 12. DESIGN SPEED FOR LOCAL STREETS WITH RESIDENTIAL FRONTAGE SHALL BE 25 MILES PER HOUR. DESIGN SPEED FOR STREETS WITHOUT RESIDENTIAL FRONTAGE SHALL BE 35 MILES PER HOUR. STREET ALIGNMENT AND PROFILE SHALL COMPLY WITH THE CRITERIA FOR SAFE STOPPING SIGHT DISTANCE FOR THESE DESIGN SPEEDS.
- 13. STREET SYSTEMS SHOULD BE LAID OUT TO DISCOURAGE TRAVEL AT HIGHER THAN DESIGN SPEEDS BY INCORPORATING CURVES, KNUCKLES AND "T" INTERSECTIONS AT NO MORE THAN 1000' INTERVALS, DEPENDING ON TERRAIN. CONTINUOUS STRAIGHT STREETS CONNECTING TWO ARTERIAL HIGHWAYS, WHICH WOULD ACT AS A "SHORTCUT" THROUGH A RESIDENTIAL AREA, SHALL BE AVOIDED.
- 14. STREETS SHALL INTERSECT AT RIGHT ANGLES WHEREVER POSSIBLE. STREETS SHALL NOT INTERSECT AT GREATER THAN 20° SKEW TO RIGHT ANGLE. FOUR-LEGGED INTERSECTIONS SHALL BE AVOIDED EXCEPT AT SIGNALIZED LOCATIONS. INTERSECTIONS SHALL HAVE ADEQUATE SIGHT DISTANCE IN CONFORMANCE WITH STD PLAN RS-40. INTERSECTIONS ON CREST VERTICAL CURVES OR ON THE INSIDE OF HORIZONTAL CURVES SHALL BE AVOIDED. THE MINIMUM DISTANCE BETWEEN INTERSECTIONS ON SHALL BE 300 FEET ON COLLECTOR ROADWAYS AND 250 FEET ON LOCAL ROADWAYS MEASURED FROM CENTERLINE.
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 - 16. A FUELS REDUCTION ZONE, OF 20 FEET ON EITHER SIDE OF THE ROAD CENTERLINE, MUST BE CLEARED INCLUDING THE FOLLOWING:
 - ALL BRUSH REMOVED.
 - · ALL TREES LIMBED UP TO 10 FEET.
 - WEEDS AND GRASS MOWED TO A 2 INCH STUBBLE.
 - 15 FOOT VERTICAL CLEARANCE CREATED DIRECTLY ABOVE THE HORIZONTALLY CLEARED AREA.

DATE:

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036

DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



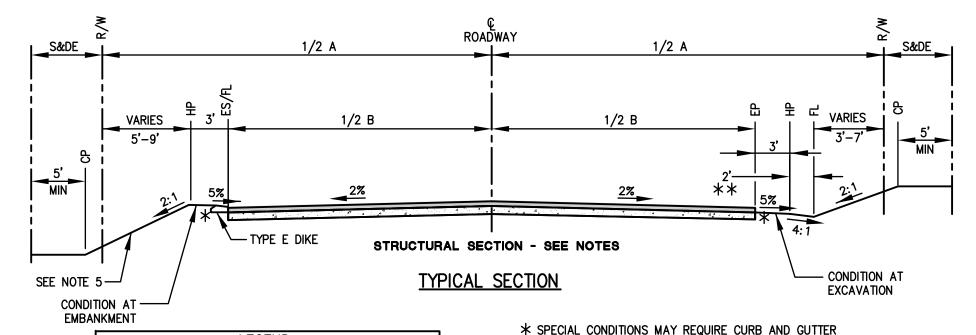
LOCAL ROADS CAMERON PARK/PLACERVILLE/ DIAMOND SPRINGS/EL DORADO/ SHINGLE SPRINGS COMMUNITY REGIONS

REVISED - BOS 02/14/1

STD. PLAN

RS-21

⊿ SHT 2 OF 2



LEGEND

A = WIDTH OF RIGHT OF WAY IN FEET

B = WIDTH OF ROADWAY IN FEET

·

** ALTERNATE DITCH SECTIONS MAY BE APPROVED OR REQUIRED

AVG DAILY TRAFFIC	CLASSIFICATION	TYPICAL ACCESS BY:	RESIDENTIAL FRONTAGE ALLOWED	MINIMUM DESIGN SPEED	A	В	MAX +
4000-10,000	NON-RES. COLLECTOR	NON-RES. LOCAL STREETS AND DRIVEWAY BOTH SIDES	N/A	35	70	54	10%
<4,000	NON-RES. LOCAL	NON-RES. LOCAL STREETS AND DRIVEWAY BOTH SIDES	N/A	25	60	44	10%
4000-10,000	COLLECTOR	LOCAL STREETS	NONE	35-45	60	40	10%
2500-4000	COLLECTOR	LOCAL STREETS	NONE	35	60	36	12%
500-2500	LOCAL	LOCAL STREETS AND DRIVEWAY BOTH SIDES	BOTH SIDES	25	50	32	12%
<500	LOCAL	DRIVEWAY BOTH SIDES	BOTH SIDES	25	50	28	12%

MAXIMUM GRADE FOR ALL STREETS ABOVE 3000' ELEVATIONS = 10%

DATE:

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY

DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



LOCAL ROADS
CAMINO/POLLOCK PINES
COMMUNITY REGION

STD. PLAN

NOT TO SCALE

RS-22

SHT 1 OF 2

GENERAL NOTES:

- SIDEWALKS MAY BE REQUIRED TO PROVIDE CONTINUOUS PEDESTRIAN ROUTES.
- 2. BASIC CRITERIA:
 - 12' TRAVEL LANES FOR VOLUMES GREATER THAN 500 ADT.
 - 10' MINIMUM TRAVEL LANES FOR VOLUMES LESS THAN 500 ADT.
 - ROADWAY WIDTH, B, SHALL BE 50' WITHIN 100' OF CURB RETURN OF AN INTERSECTION WITH A HIGHER CLASSIFICATION ROAD. CURB & GUTTER TRANSITION SHALL BE CONSTRUCTED BETWEEN 100' & 140' FROM CURB RETURN. FOR NON-RESIDENTIAL ROADWAYS, AND LOCAL COLLECTOR ROADWAYS, PAVEMENT CROWNLINE SHALL BE CENTERED BETWEEN CURBS.
- MINIMUM STREET FLOW LINE GRADE SHALL BE 0.5%, REVERSE GRADE VERTICAL CURVES EXCEPTED.
- 4. SEE STANDARD PLAN MC-01 FOR SIDEWALK DETAILS. SIDEWALK LOCATION MAY VARY. MAINTAIN MIN. 6" CLEARANCE FROM R/W LINE.
- 5. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL, UNLESS A GEOTECHNICAL ENGINEER DETERMINES THAT A STEEPER SLOPE WILL BE SAFE FOR THE INTENDED USE AND WILL NOT BE SUSCEPTIBLE TO EROSION, SLOPES CONSTRUCTED FOUR HORIZONTAL TO ONE VERTICAL OR FLATTER DO NOT REQUIRE SLOPE EASEMENTS.
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- 8. THE TOP 6" OF SUBGRADE AND ALL BASE AND SUB-BASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
- SUBGRADE ENHANCEMENT GEOTEXTILE SHOULD BE CONSIDERED FOR NATIVE SOIL R-VALUES LESS THAN 20.
- 10. SLOPES OVER FIVE HORIZONTAL TO ONE VERTICAL SHALL BE KEYED WHEN PLACING EMBANKMENT FILL, KEYS PER GRADING REQUIREMENTS.
- 11. SLOPE AND DRAINAGE EASEMENTS (S&DE) SHALL EXTEND 5' BEYOND HINGE POINTS. TOE OF SLOPES, AND DRAINAGE STRUCTURES.
- 12. DESIGN SPEED FOR LOCAL STREETS WITH RESIDENTIAL FRONTAGE SHALL BE 25 MILES PER HOUR. DESIGN SPEED FOR STREETS WITHOUT RESIDENTIAL FRONTAGE SHALL BE 35 MILES PER HOUR. STREET ALIGNMENT AND PROFILE SHALL COMPLY WITH THE CRITERIA FOR SAFE STOPPING SIGHT DISTANCE FOR THESE DESIGN SPEEDS.
- 13. STREET SYSTEMS SHOULD BE LAID OUT TO DISCOURAGE TRAVEL AT HIGHER THAN DESIGN SPEEDS BY INCORPORATING CURVES, KNUCKLES AND "T" INTERSECTIONS AT NO MORE THAN 1000' INTERVALS, DEPENDING ON TERRAIN. CONTINUOUS STRAIGHT STREETS CONNECTING TWO ARTERIAL HIGHWAYS, WHICH WOULD ACT AS A "SHORTCUT" THROUGH A RESIDENTIAL AREA, SHALL BE AVOIDED.
- 14. STREETS SHALL INTERSECT AT RIGHT ANGLES WHEREVER POSSIBLE. STREETS SHALL NOT INTERSECT AT GREATER THAN 20° SKEW TO RIGHT ANGLE. FOUR—LEGGED INTERSECTIONS SHALL BE AVOIDED EXCEPT AT SIGNALIZED LOCATIONS. INTERSECTIONS SHALL HAVE ADEQUATE SIGHT DISTANCE IN CONFORMANCE WITH STD PLAN RS—40. INTERSECTIONS ON CREST VERTICAL CURVES OR ON THE INSIDE OF HORIZONTAL CURVES SHALL BE AVOIDED. THE MINIMUM DISTANCE BETWEEN INTERSECTIONS ON SHALL BE 300 FEET ON COLLECTOR ROADWAYS AND 250 FEET ON LOCAL ROADWAYS MEASURED FROM CENTERLINE.
- 15. THE LOCATION OF ANY INTERSECTION SHALL BE REVIEWED BY THE COUNTY ENGINEER TO DETERMINE SAFETY AND COMPATIBILITY FOR SIGNAL PROGRESSION. TRAFFIC AT ANY INTERSECTION MAY BE ULTIMATELY RESTRICTED TO RIGHT TURN IN AND OUT ONLY.
 - 16. A FUELS REDUCTION ZONE, OF 20 FEET ON EITHER SIDE OF THE ROAD CENTERLINE, MUST BE CLEARED INCLUDING THE FOLLOWING:
 - · ALL BRUSH REMOVED.
 - ALL TREES LIMBED UP TO 10 FEET.
 - WEEDS AND GRASS MOWED TO A 2 INCH STUBBLE.
 - 15 FOOT VERTICAL CLEARANCE CREATED DIRECTLY ABOVE THE HORIZONTALLY CLEARED AREA.

DATE:

NOT TO SCALE

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

DESIGN STANDARDS

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

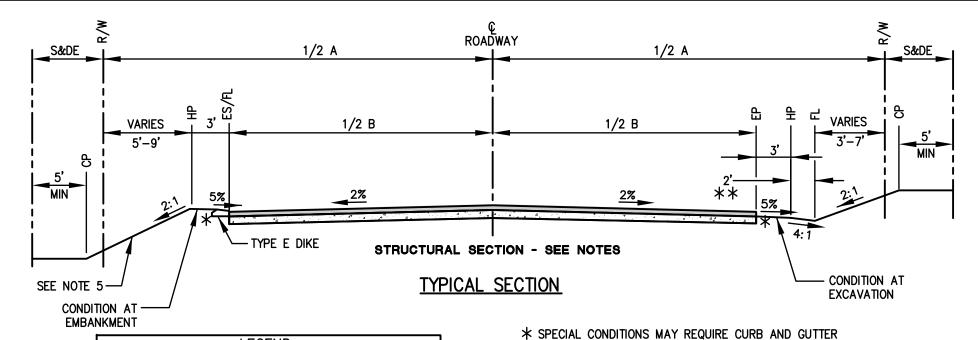


LOCAL ROADS
CAMINO/POLLOCK PINES
COMMUNITY REGION

STD. PLAN

RS-22

REVISED - BOS 02/14/ 1 SHT 2 0F 2



LEGEND	
A = WIDTH OF RIGHT OF WAY IN FEET B = WIDTH OF ROADWAY IN FEET	

** ALTERNATE DITCH SECTIONS MAY BE APPROVED OR REQUIRED

AVG DAILY TRAFFIC	CLASSIFICATION	TYPICAL ACCESS BY:	RESIDENTIAL FRONTAGE ALLOWED	MINIMUM DESIGN SPEED	A	В	MAX +
4000-10,000	NON-RES. COLLECTOR	NON-RES. LOCAL STREETS AND DRIVEWAY BOTH SIDES	N/A	40	70	54	10%
400-4,000	NON-RES. LOCAL	NON-RES. LOCAL STREETS AND DRIVEWAY BOTH SIDES	N/A	40	60	44	10%
<400	NON-RES. LOCAL	NON-RES. LOCAL STREETS AND DRIVEWAY BOTH SIDES	N/A	25	60	44	10%
4000-10,000	COLLECTOR	LOCAL STREETS	NONE	40	60	40	10%
2500-4000	COLLECTOR	LOCAL STREETS	NONE	40	60	36	12%
500-2500	LOCAL	LOCAL STREETS AND DRIVEWAY BOTH SIDES	BOTH SIDES	40	50	28	12%
<500	LOCAL	DRIVEWAY BOTH SIDES	BOTH SIDES	25	50	24	12%

◆ MAXIMUM GRADE FOR ALL STREETS ABOVE 3000' ELEVATIONS = 10%

DATE:

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BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY

DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



LOCAL ROADS **RURAL REGIONS** & RURAL CENTERS

STD. **PLAN**

NOT TO SCALE

RS-23

SHT 1 OF 2

GENERAL NOTES:

- SIDEWALKS MAY BE REQUIRED TO PROVIDE CONTINUOUS PEDESTRIAN ROUTES.
- 2. BASIC CRITERIA:
 - 12' TRAVEL LANES FOR VOLUMES GREATER THAN 500 ADT.
 - 10' MINIMUM TRAVEL LANES FOR VOLUMES LESS THAN 500 ADT.
 - ROADWAY WIDTH, B. SHALL BE 50' WITHIN 100' OF CURB RETURN OF AN INTERSECTION WITH A HIGHER CLASSIFICATION ROAD, CURB & GUTTER TRANSITION SHALL BE CONSTRUCTED BETWEEN 100' & 140' FROM CURB RETURN. FOR NON-RESIDENTIAL ROADWAYS, AND LOCAL COLLECTOR ROADWAYS, PAVEMENT CROWNLINE SHALL BE CENTERED BETWEEN CURBS.
- MINIMUM STREET FLOW LINE GRADE SHALL BE 0.5% REVERSE GRADE VERTICAL CURVES EXCEPTED.
- SEE STANDARD PLAN MC-01 FOR SIDEWALK DETAILS. SIDEWALK LOCATION MAY VARY, MAINTAIN MIN. 6" CLEARANCE FROM R/W LINE.
- 5. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL, UNLESS A GEOTECHNICAL ENGINEER DETERMINES THAT A STEEPER SLOPE WILL BE SAFE FOR THE INTENDED USE AND WILL NOT BE SUSCEPTIBLE TO EROSION. SLOPES CONSTRUCTED FOUR HORIZONTAL TO ONE VERTICAL OR FLATTER DO NOT REQUIRE SLOPE EASEMENTS.
- STRUCTURAL SECTION SHALL BE BASED ON "R" VALUE AND "T.I.". DESIGN TO BE SUBMITTED TO DOT FOR REVIEW AND APPROVAL.
- 7. HOT MIX ASPHALT (HMA) SHALL BE TYPE A, 1/2"; AGGREGATE BASE (AB) SHALL BE CLASS 2, 3/4".
- THE TOP 6" OF SUBGRADE AND ALL BASE AND SUB-BASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
- SUBGRADE ENHANCEMENT GEOTEXTILE SHOULD BE CONSIDERED FOR NATIVE SOIL R-VALUES LESS THAN 20.
- SLOPES OVER FIVE HORIZONTAL TO ONE VERTICAL SHALL BE KEYED WHEN PLACING EMBANKMENT FILL. KEYS PER GRADING REQUIREMENTS.
- SLOPE AND DRAINAGE EASEMENTS (S&DE) SHALL EXTEND 5' BEYOND HINGE POINTS. TOE OF SLOPES. AND DRAINAGE STRUCTURES.
- 12. DESIGN SPEED FOR LOCAL STREETS WITH RESIDENTIAL FRONTAGE SHALL BE 25 MILES PER HOUR. DESIGN SPEED FOR STREETS WITHOUT RESIDENTIAL FRONTAGE SHALL BE 35 MILES PER HOUR. STREET ALIGNMENT AND PROFILE SHALL COMPLY WITH THE CRITERIA FOR SAFE STOPPING SIGHT DISTANCE FOR THESE DESIGN SPEEDS.
- 13. STREET SYSTEMS SHOULD BE LAID OUT TO DISCOURAGE TRAVEL AT HIGHER THAN DESIGN SPEEDS BY INCORPORATING CURVES, KNUCKLES AND "T" INTERSECTIONS AT NO MORE THAN 1000' INTERVALS, DEPENDING ON TERRAIN. CONTINUOUS STRAIGHT STREETS CONNECTING TWO ARTERIAL HIGHWAYS, WHICH WOULD ACT AS A "SHORTCUT" THROUGH A RESIDENTIAL AREA, SHALL BE AVOIDED.
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 - ALL BRUSH REMOVED.
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 - WEEDS AND GRASS MOWED TO A 2 INCH STUBBLE.
 - 15 FOOT VERTICAL CLEARANCE CREATED DIRECTLY ABOVE THE HORIZONTALLY CLEARED AREA.

DATE:

NOT TO SCALE

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

DESIGN STANDARDS

EL DORADO COUNTY

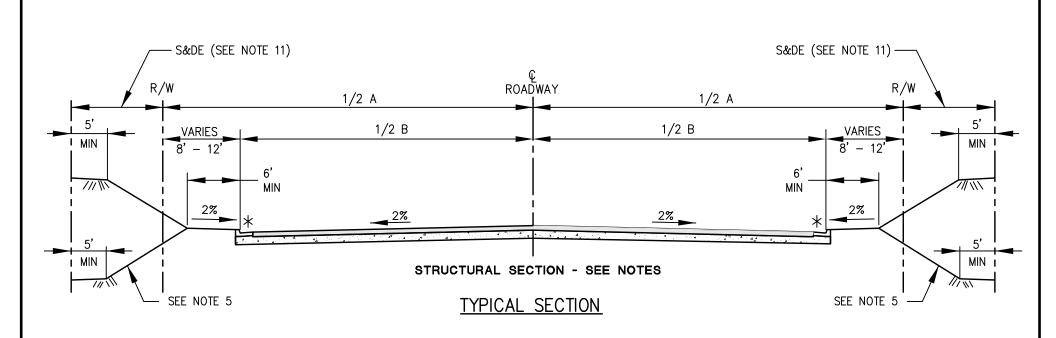
DEPARTMENT OF TRANSPORTATION

LOCAL ROADS RURAL REGIONS & RURAL CENTERS

STD. **PLAN**

RS-23

1 SHT 2 OF 2 REVISED - ROS 02/14/



LEGEND

A = WIDTH OF RIGHT OF WAY IN FEET B = WIDTH OF ROADWAY IN FEET

* ROLLED CURB AND GUTTER SHALL BE COUNTY TYPE 1. SPECIAL CONDITIONS MAY REQUIRE OTHER TYPES OR ROADSIDE DITCHES

AVG DAILY TRAFFIC	CLASSIFICATION	TYPICAL ACCESS BY:	RESIDENTIAL FRONTAGE ALLOWED	MINIMUM DESIGN SPEED	А	В	MAX GRADE
4000-10,000	NON-RES. COLLECTOR	NON-RES. LOCAL STREETS AND DRIVEWAY BOTH SIDES	N/A	35	70	54	10%
<4,000	NON-RES. LOCAL	NON-RES. LOCAL STREETS AND DRIVEWAY BOTH SIDES	N/A	25	60	44	10%
4000-10,000	COLLECTOR	LOCAL STREETS	NONE	35-45	60	40	10%
2500-4000	COLLECTOR	LOCAL STREETS	NONE	35	60	36	10%
500-2500	LOCAL	LOCAL STREETS AND DRIVEWAY BOTH SIDES	BOTH SIDES	25	50	32	10%
<500	LOCAL	DRIVEWAY BOTH SIDES	BOTH SIDES	25	50	28	10%

APPROVED BY:

JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION DATE:

BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY

DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



LOCAL ROADS TAHOE REGION

PLAN RS-25

STD.

NOT TO SCALE

REVISED - ROS 02/14/1

SHT 1 OF 2

GENERAL NOTES:

- SIDEWALKS MAY BE REQUIRED TO PROVIDE CONTINUOUS PEDESTRIAN ROUTES.
- 2. BASIC CRITERIA:
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NOT TO SCALE

JAMES W. WARE, P.E. NO. C61036 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION

EL DORADO COUNTY

DESIGN STANDARDS



LOCAL ROADS TAHOE REGIONS

STD. PLAN

RS-25

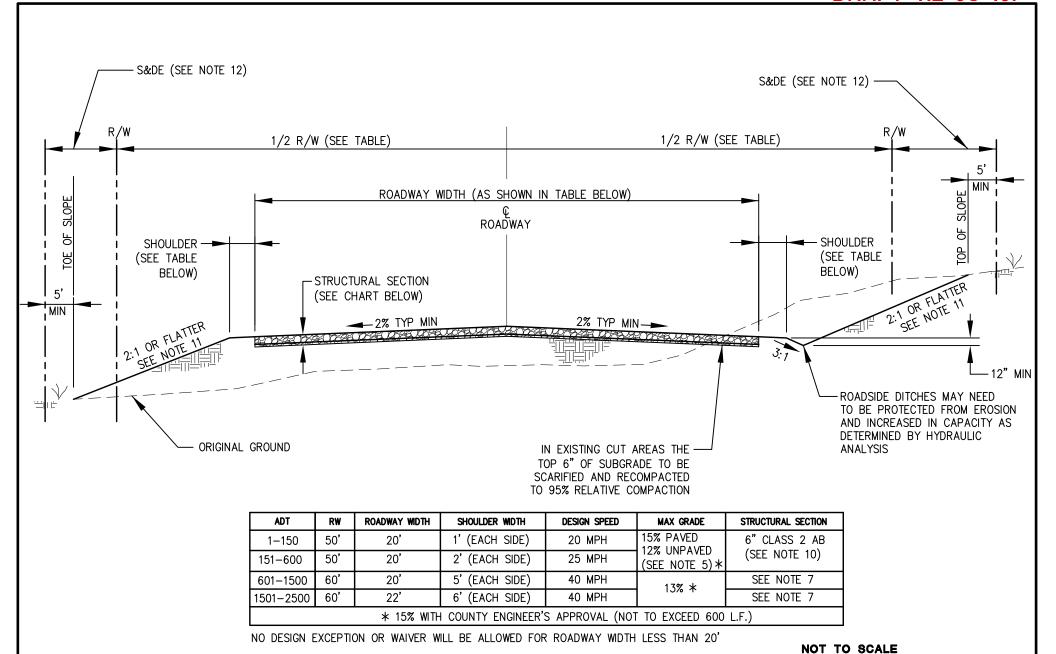
1 SHT 2 OF 2 REVISED - ROS 02/14/

10-1101.3D.30

APPROVED BY:

BOARD OF SUPERVISOR'S RESOLUTION NO.

DATE:



APPROVED BY:

JAMES W. WARE, P.E. NO. C61036
DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

BOARD OF SUPERVISOR'S RESOLUTION NO.

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



PRIVATE ROADS RURAL REGIONS & RURAL CENTERS

RS-30

SHT 1 OF 2

STD.

PLAN

EVISED - BOS 02/14/1

10-1101.3D.31

NOTES:

- 1. THIS STANDARD PLAN (RS-30) REPLACES PRIOR STANDARD PLAN 101C. STANDARD PLAN RS-23 SHALL BE USED FOR ALL COUNTY MAINTAINED LOCAL ROADS IN RURAL REGIONS AND RURAL CENTERS. COUNTY MAINTAINED LOCAL ROADS WITHIN COMMUNITY REGIONS SHALL USE STANDARD PLAN RS-20 THROUGH 22, AS APPROPRIATE.
- 2. ADT DATA SHOWN IN THE TABLE ARE THE FORECASTED FOR 20-YEAR OUT DAILY VOLUMES.
- ROADS ABOVE 3000 FT ELEVATION SHALL BE PAVED REGARDLESS OF ADT.
- MAXIMUM ROAD GRADE IS 15% ROADS STEEPER THAN 12% SHALL BE PAVED REGARDLESS OF ADT OR LOCATION.
- DOUBLE-CHIP SEAL MAY BE SUBSTITUTED FOR 2" OF AB FOR ROADS WITH ADT BELOW 601.
- WIDENING OF EXISTING ON-SITE ROADS SHALL COMPLY WITH STRUCTURAL SECTION REQUIRED AND MEET OR EXCEED THE SURFACING OF THE EXISTING ROAD.
- 7. STRUCTURAL SECTION SHALL BE BASED ON "R" VALUE AND "T.I". DESIGN TO BE SUBMITTED TO DOT FOR REVIEW AND APPROVAL, ALL ROADS SHALL BE CAPABLE OF SUPPORTING LEGAL WEIGHT VEHICLES AND EXEMPT VEHICLES PURSUANT TO SECTION 35550 et.seq. OF THE CALIFORNIA VEHICLE CODE.
- 8. HOT MIX ASPHALT (HMA) SHALL BE TYPE A, 1/2"; AGGREGATE BASE (AB) SHALL BE CLASS 2, 3/4".
- 9. THE TOP 6" OF SUBGRADE AND ALL BASE AND SUB-BASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
- 10. SUBGRADE ENHANCEMENT GEOTEXTILE SHOULD BE CONSIDERED FOR NATIVE SOIL R-VALUES LESS THAN 20.
- 11. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL, UNLESS A GEOTECHNICAL ENGINEER DETERMINES THAT A STEEPER SLOPE WILL BE SAFE FOR THE INTENDED USE AND WILL NOT BE SUSCEPTIBLE TO EROSION. SLOPES CONSTRUCTED FOUR HORIZONTAL TO ONE VERTICAL OR FLATTER DO NOT REQUIRE SLOPE EASEMENTS.
- 12. SLOPE & DRAINAGE EASEMENTS (S&DE) SHALL EXTEND 5' BEYOND HINGE POINTS, TOE OF SLOPES, AND DRAINAGE STRUCTURES.
- 13. SHOULDERS SHALL BE DRIVABLE SURFACES BUT DO NOT REQUIRE PAVING.
- 14. DEAD END ROADS IN EXCESS OF 500' SHALL HAVE A MINIMUM ROADWAY WIDTH OF 26', NOT INCLUDING THE SHOULDER WIDTH REQUIREMENT SHOWN IN THE TABLE, FOR THE ENTIRE LENGTH OF THE ROAD. THIS REQUIREMENT CANNOT BE MODIFIED BY DESIGN EXCEPTION OR WAIVER.
- 15. A FUELS REDUCTION ZONE. OF 20 FEET ON EITHER SIDE OF THE ROAD CENTERLINE, MUST BE CLEARED INCLUDING THE FOLLOWING: ALL BRUSH REMOVED.
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APPROVED BY:

JAMES W. WARE, P.E. NO. C61036
DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

DATE:

DESIGN STANDARDS

EL DORADO COUNTY



PRIVATE ROADS **RURAL REGIONS & RURAL CENTERS**

STD. **PLAN**

RS-30

SHT 2 OF 2

10-1101.3D.32

BOARD OF SUPERVISOR'S RESOLUTION NO.