

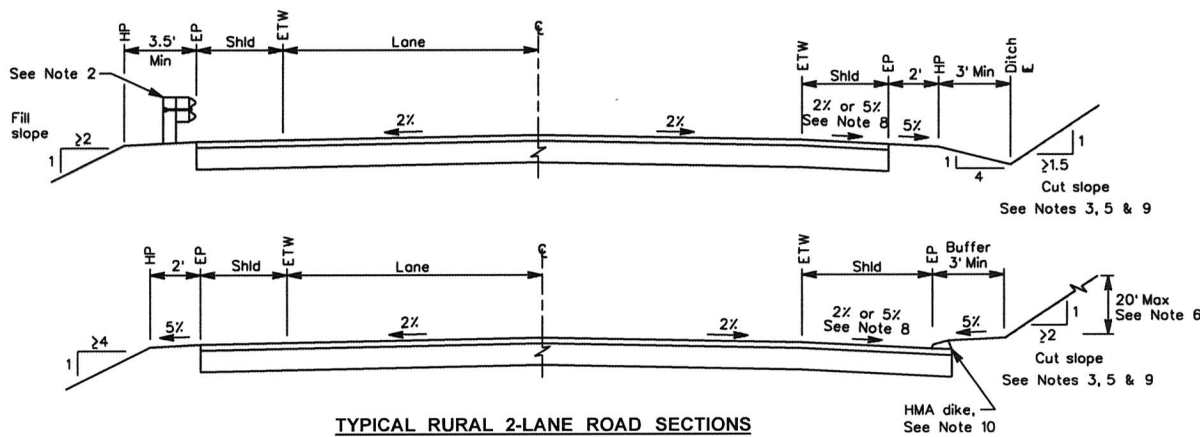
Julia R. Bueren
 PUBLIC WORKS DIRECTOR
 March 11, 2014
 PLANS APPROVAL DATE

PROFESSIONAL ENGINEER
 JULIA R. BUEREN
 No. 37937
 CIVIL
 STATE OF CALIFORNIA

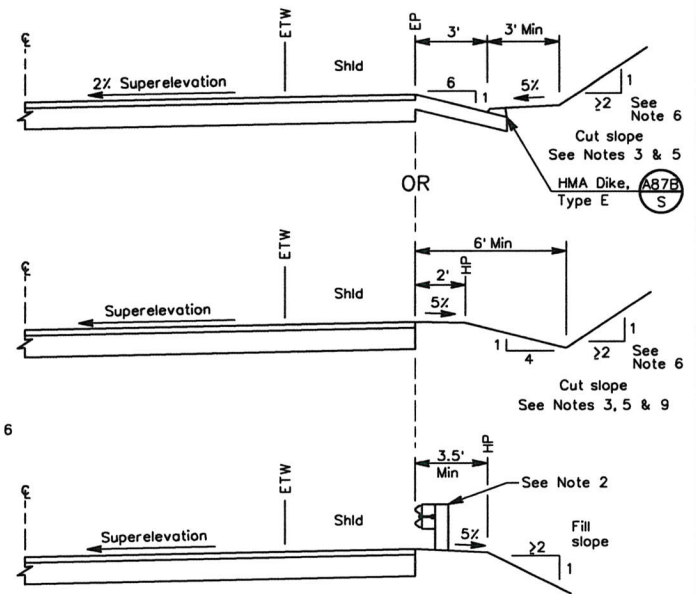
The County of Contra Costa or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

MINIMUM TWO - LANE RURAL SHOULDER/LANE WIDTHS

	ADT < 200	< 400	< 1000	< 3000	< 6000	> 6000
Shld/Lane/Lane/Shld	1'/11'/11'/1' See Note 4	2'/11'/11'/2' See Note 4	4'/12'/12'/4'	5'/12'/12'/5'	6'/12'/12'/6'	8'/12'/12'/8'
TOTAL PAVEMENT WIDTH	24'	26'	32'	34'	36'	40'



TYPICAL RURAL 2-LANE ROAD SECTIONS



TYPICAL RURAL 2-LANE ROAD SUPERELEVATED SECTION

NOTES:

- These guidelines do not override County Ordinance Code requirements for development projects. Based on various factors such as accident history, alignment and traffic speed, the County Traffic Engineer may require paved shoulders wider than these minimums in isolated locations or for long segments of roadway.
- Guardrail may be required, depending on embankment height and steepness of slope. (See Chapter 7 of the California Department of Transportation's Traffic Manual).
- Distance to cut slope from ETW shall be increased for sight distance in curves. (See Chapter 200 of the California Department of Transportation's Highway Design Manual).
- Paved shoulders shall be 4', if shoulders are designated as bike lanes.
- A wider swale and/or buffer between toe of slope and roadway should be considered where there is potential rock fall, the slope is highly erosive or there is significant longitudinal surface flows.
- If cut slope is > 20' vertically to bench or top of cut, buffer width shall be increased.
- Design ADT shall be approved by the Public Works Department.
- 5% cross slope for shoulders greater than 4 ft wide, typical.
- Cut slopes steeper than 2 horizontal to 1 vertical require geotechnical engineer's approval.
- HMA dikes shall be Type E or F per or as specified on the plans.

STD. PLAN CA53

COUNTY OF CONTRA COSTA
 PUBLIC WORKS DEPARTMENT

MARTINEZ, CALIFORNIA
 STANDARD PLAN

TWO LANE RURAL ROAD GUIDELINES

SCALE: NO SCALE

DATE: 3/14

DRAWN BY: L. COSTA

PLAN NO.

CHECKED BY: M. HOLLINGSWORTH

CA53

NO.	DATE	REVISION DESCRIPTION	BY