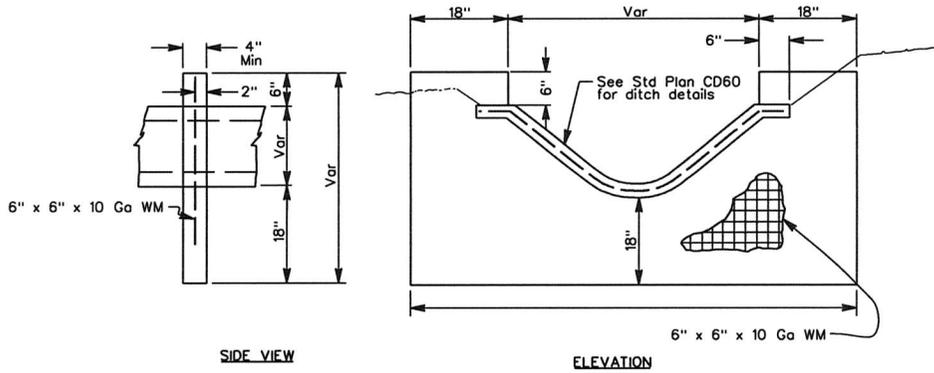


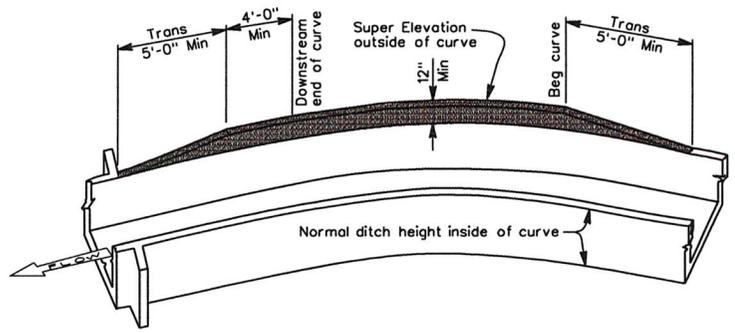
*Julia R. Bueren*  
 PUBLIC WORKS DIRECTOR  
 March 11, 2014  
 PLANS APPROVAL DATE

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

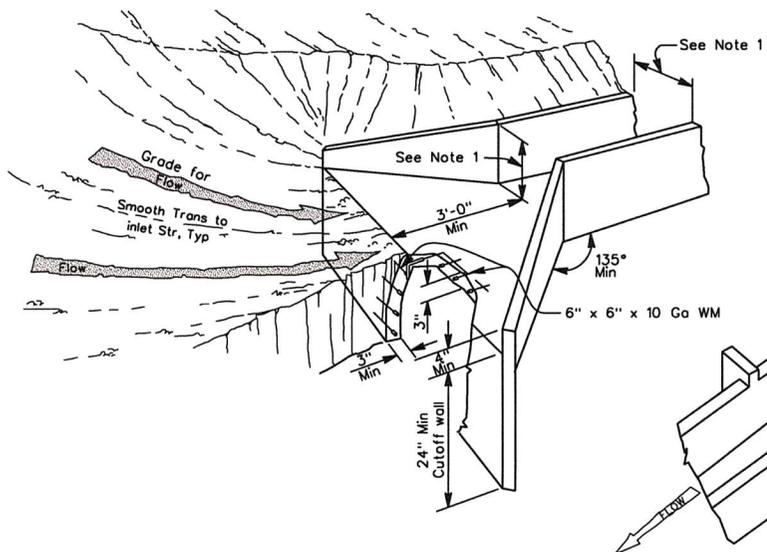
The County of Contra Costa or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



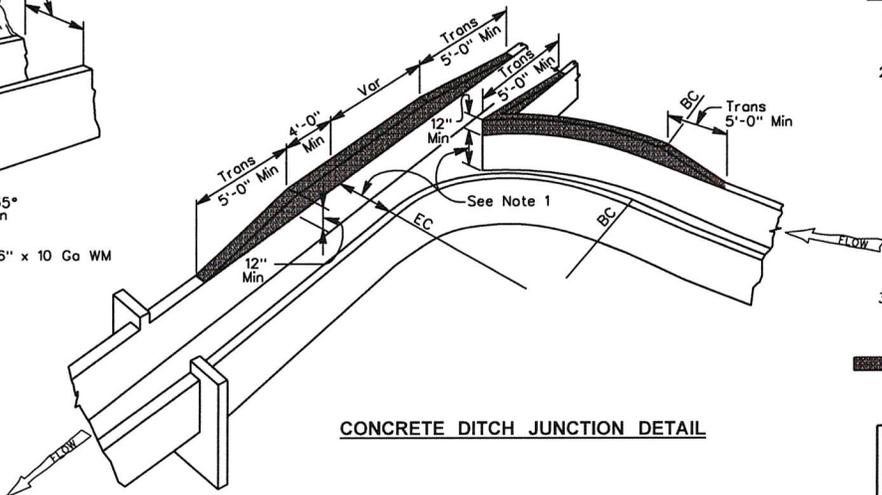
**CONCRETE DITCH CUTOFF WALL**



**SUPERELEVATION OF CONCRETE DITCH CURBS**  
 ALL CURVES W/RADIUS  $\leq$  50 ft



**CONCRETE DITCH INLET STRUCTURE**



**CONCRETE DITCH JUNCTION DETAIL**

- NOTES:**
- Channel shape shall conform to Standard Plan CD60. Shape of channel shown on this plan for clarity.
  - Location of cutoff walls shall be as follows:
    - At the transition from earth to concrete 'V' ditches.
    - Below all wyes and junctions.
    - At the E.C. of all vertical curves or below any abrupt break in steep to flatter gradient.
    - At the E.C. of sharp horizontal curves ( $\leq$  30' R) or abrupt turns.
    - At such other locations along a concrete lined ditch where in the opinion of the Public Works Department, cutoff walls are necessary to direct or contain the flow within the ditch.
  - The alignment shall be approved by the Public Works Department, after excavation before concrete is poured.
- Denotes superelevated portion of channel wall

COUNTY OF CONTRA COSTA  
 PUBLIC WORKS DEPARTMENT  
 MARTINEZ, CALIFORNIA  
 STANDARD PLAN

**CONCRETE 'V' DITCH  
 DETAILS**

SCALE: NO SCALE      DATE: 3/14  
 DRAWN BY: H. HUSSEY      PLAN NO. CD61  
 CHECKED BY: M. HOLLINGSWORTH

NO.	DATE	REVISION DESCRIPTION	BY