

V.C.

GRADES AND VERTICAL CURVE LENGTHS SHALL BE AS

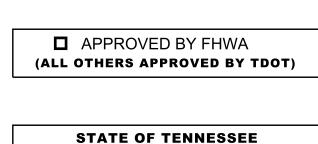
SHOWN ON RAMP PROFILES CONTAINED WITHIN THE PLANS.

GRADES AND VERTICAL CURVE LENGTHS SHALL BE AS

SHOWN ON RAMP PROFILES CONTAINED WITHIN THE PLANS.

V.C.

GENERAL NOTES AND MINIMUM IS 60°. PROPOSED SHOULDER LINES SHALL TIE INTO EXISTING SHOULDER LINES.



REV. 10-23-69: RETRACED DRAWING.

D-R-2(68) TO RP-R-1.

GENERAL NOTES.

DESCRIPTION.

AND REDREW SHEET.

REV. 07-01-72: CHANGED DEPARTMENT

REV. 01-01-76: CHANGED DWG. NO. FROM

REV. 03-15-76: DELETED REFERENCE TO OLD DWG. NO. AND SUBSTITUTED NEW

REV. 06-06-80: REVISED GUIDE TABLE

☐ REV. 05-27-96: REDREW DRAWING. MADE

■ REV. 05-27-01: CHANGED PAY ITEM 203-01

REV. 06-28-19: REMOVED GUIDE TABLE

NOTES. FOR ROADWAYS & DRIVEWAYS:

ADDED REQUIREMENTS FOR A FLAT AREA

AND PROPOSED APPROACH GRADES TO THE & PROFILE OF RAMP IN EXCAVATION AND EMBANKMENT DETAILS. RENAMED

REV. 10-16-20: THE START OF THE 10'

OF 0% WAS MOVED FROM EDGE

OF SHOULDER TO THE EDGE OF PAVEMENT ON PLANS AND PROFILES.

REVISED GENERAL NOTE (J).

FOR RAMPS. REVISED ALL GENERAL

MINOR REVISIONS AS NEEDED.

FOR RAMP DESIGN AND NUMBERED

DRAWING DEPARTMENT OF TRANSPORTATION STANDARD RAMP DETAILS

STANDARD

FOR ROADWAYS AND DRIVEWAYS

- ALIGNMENT OF INTERSECTING ROADWAYS AND PRIVATE DRIVES (RAMPS) SHALL BE MODIFIED SO AS TO ATTAIN ADEQUATE SIGHT DISTANCES AND DESIRABLE GRADES. DESIRABLE SKEW IS 90°
- SEE AASHTO CURRENT PUBLICATION "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS" AND TDOT "ROADWAY DESIGN GUIDELINES" FOR INTERSECTION & INTERCHANGE DESIGN REQUIREMENTS.
- WHERE EXISTING SHOULDER LINES AND EDGES OF EXISTING PAVEMENT ARE NOT THE SAME.
- PROFILE OF EMBANKMENT AND EXCAVATION RAMPS ARE THE SAME EXCEPT FOR LOCATION OF SIDE DRAIN AND DITCHES.
- ALL ROADWAYS AND PRIVATE DRIVES (RAMPS) THAT REQUIRE SIDE DRAINS SHALL USE STANDARD DRAWING NO. D-SEW-1A, UNLESS THE ENDWALL IS PROTECTED BY GUARDRAIL.
- ALL ROADWAYS AND RAMPS AT INTERSECTIONS AND INTERCHANGES SHALL HAVE A FLAT SPACE AT THE TIE IN POINT OF THE INTERSECTING ROADWAY OF 30' TO 50' IN LENGTH WITH A GRADE OF 0.00% DESIRABLE TO A 2.00% MAX. SEE \P PROFILE OF RAMP IN EXCAVATION AND EMBANKMENT DETAILS.
- ANY NECESSARY EXCAVATION FOR INSTALLING RAMPS OR ROADWAYS SHALL BE PAID FOR UNDER ITEM 203-01, ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED), C.Y.
- DRIVEWAY VERTICAL CURVE LENGTHS SHALL BE BASED ON K VALUES OF: CREST, K = 1 AND SAG, K = 2.
- L (LENGTH OF VERTICAL CURVE)
- $K = \frac{L \text{ (ALGEBRAIC DIFFERENCE OF GRADE)}}{A \text{ (ALGEBRAIC DIFFERENCE OF GRADE)}}$
 - OR K x A = L (VERTICAL CURVE LENGTH)
- SHOULDERS NOT REQUIRED FOR DRIVEWAYS.
- DUE TO SAFETY CONCERNS, IT IS DESIRABLE FOR ALL PRIVATE DRIVES AND BUSINESS ENTRANCES TO HAVE A FLAT SPACE AT THE TIE IN POINT OF THE INTERSECTING ROADWAY OF 10' MINIMUM IN LENGTH WITH A GRADE OF 0.00% DESIRABLE TO A 2.00% MAX. SEE € PROFILE OF RAMP IN EXCAVATION AND EMBANKMENT DETAILS. FOR ADDITIONAL TDOT DRIVEWAY REQUIREMENTS SEE "MANUAL FOR CONSTRUCTING DRIVEWAY ENTRANCES ON STATE HIGHWAYS".

PROPOSED ROADWAY # EDGE OF -10/16/2020 12:09:41 PM P:\StandDraw\DESIGN STANDARDS` PAVEMENT PAVEMENT NOT TO SCALE

FLAT AREA(F)

FLAT AREA (J)

-FLOW LINE OF DITCH

0.0 % (LEVEL) GRADE TO 2.0 % MAX. B F J

P.C.

V.C.

V.C.

SIDE DRAIN TO BE LOCATED

AT POINT OF DRAINAGE.

PROFILE OF RAMP IN EMBANKMENT

PROFILE OF RAMP IN EXCAVATION

P.T.

GROUND LINE

MIN. 10' FOR DRIVEWAYS

MIN. 30' TO 50' FOR ROADWAYS

MIN. 10' FOR DRIVEWAYS

EDGE OF

SHOULDER

FLAT AREA(F)

FLAT AREA (J)

EDGE OF

SHOULDER

PROP.

SHLD.

PROP.

SHLD.

PROPOSED ROADWAY

EDGE OF -

ON ALL PAVING PROJECTS THE ROADWAY AND DRIVEWAY SURFACE MATERIAL SHALL

4 OF ROADWAY

BE PLACED FLUSH WITH ADJACENT EDGE

PAVEMENT

PAVEMENT

RP-R-1