STANDARD	TITLE						
CS-1, 1A	TYPICAL METHODS OF GRADING SIDE SLOPES			701.01			
CS-2	SUGGESTED DRAINAGE TREATMENT AT BEGINNING OF FILLS			701.02			
CS-2A	TYPICAL METHODS OF GRADING SIDE SLOPES			701.03			
CS-3	TYPICAL METHODS OF GRADING SIDE SLOPES			701.04			
CS-3A	TYPICAL METHODS OF GRADING SIDE SLOPES			701.05			
CS-3B	TYPICAL METHODS OF GRADING SIDE SLOPES			701.06			
CS-4	TYPICAL METHODS OF GRADING SIDE SLOPES			701.07			
CS-4A	TYPICAL METHODS OF GRADING SIDE SLOPES			701.08			
CS-4B	TYPICAL METHODS OF GRADING SIDE SLOPES			701.09			
CS-4C	TYPICAL METHODS OF GRADING SIDE SLOPES			701.10			
CS-4E	TYPICAL METHODS OF GRADING SIDE SLOPES			701.11			
GS-10	MINIMUM DESIGN CRITERIA FOR TEMPORARY DETOURS (MOT)	SEE VDOT'S ROAD DESIGN MANUA		VOID			
GS-11	STANDARD SHOULDER DESIGN FOR ALL SYSTEMS EXCEPT LOCAL ROADS AND STREETS	SEE VDOT'S ROAD DESIGN MANUA	AL FOR GS STANDARDS	VOID			
GS-12	STANDARD SHOULDER DESIGN FOR LOCAL ROADS AND STREETS	SEE VDOT'S ROAD DESIGN MANUA	AL FOR GS STANDARDS	VOID			
GS-13	STANDARD GRADED MEDIAN DESIGNS	SEE VDOT'S ROAD DESIGN MANUA	AL FOR GS STANDARDS	VOID			
	INIDEX OF SHEETS		<b>\</b> VDOT				

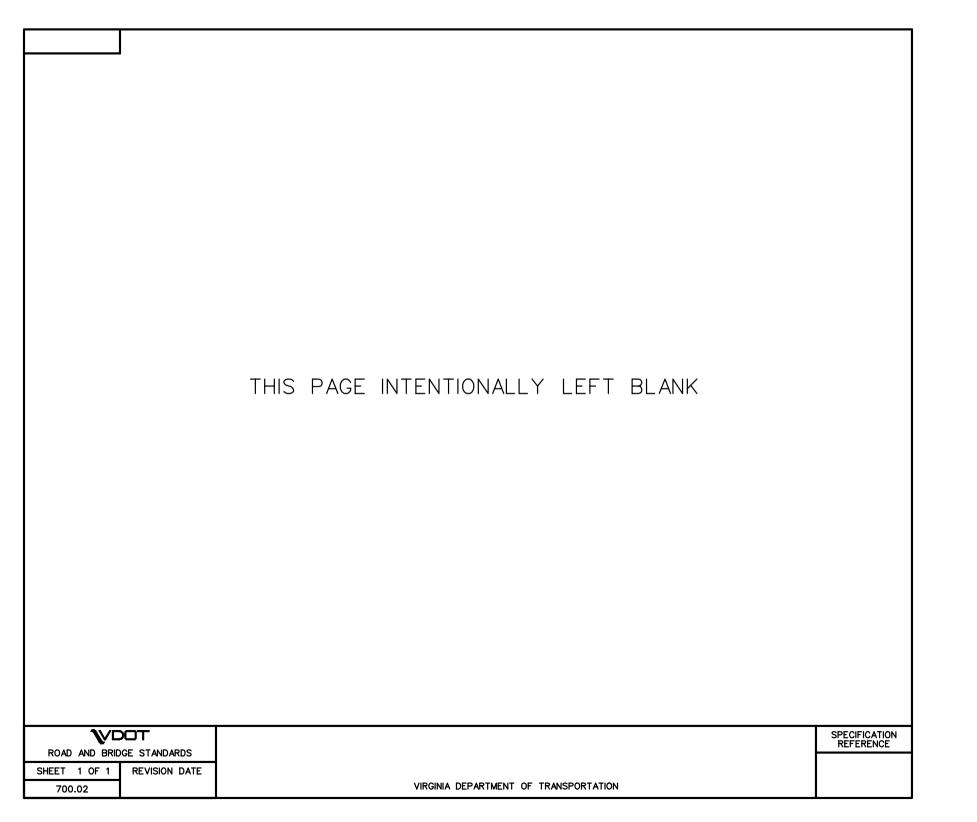
INDEX OF SHEETS SECTION 700-GEOMETRIC DESIGN

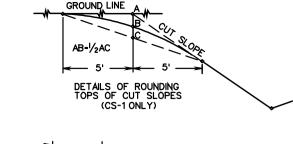
VIRGINIA DEPARTMENT OF TRANSPORTATION

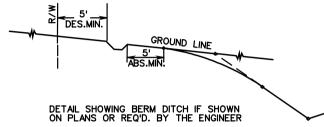
ROAD AND BRIDGE STANDARDS

REVISION DATE 7/12

SHEET 1 OF 1







SLOPE ROUNDING (STD. CS-1)TO BE AS DETAILED ABOVE, UNLESS SPECIFICALLY EXCEPTED ON PROJECT TYPICAL SECTION(S).

SEE STANDARD CS-2A FOR SUGGESTED METHODS OF FINISHING SLOPES TO FIT VARIOUS CONDITIONS.

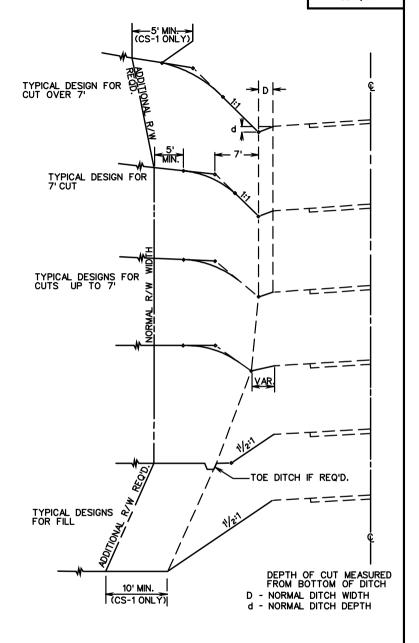
SEE STANDARD CS-2 FOR SUGGESTED METHOD OF TRANSITIONING FROM CUT TO FILL.

ALL SLOPES SHALL BE FINISHED IN ACCORDANCE WITH THIS PLAN AND NOTES HEREON. EXCEPTIONS: LACK OF RIGHT OF WAY, ROCK OUT-CROP, OR WHERE DESIRABLE TO SAVE TREES, SHRUBBERY, ETC., AS MAY BE DIRECTED BY THE ENGINEER. SHOULD THIS RESULT IN SURPLUS EXCAVATION MATERIAL, SUCH SURPLUS SHALL BE USED AS DIRECTED BY THE ENGINEER, IN LIEU OF BORROW, TO WIDEN FILLS, OR GRADE WITHIN THE RIGHT OF WAY. SHOULD IT RESULT IN INSUFFICIENT EXCAVATION MATERIAL, SUCH MATERIAL SHALL BE OBTAINED AS DIRECTED BY THE ENGINEER.

WHEN FOUND EXPEDIENT, STANDARD DITCH WIDTH AND DEPTH MAY BE INCREASED; THE DISTANCE BETWEEN BOTTOM OF DITCH AND MINIMUM RIGHT OF WAY LINE TO REMAIN AS SHOWN FOR STANDARD DITCH.

IN SHALLOW CUTS, WHERE POSSIBLE, KEEP THE CUT SLOPE, AT LEAST AS STEEP AS THE DITCH SLOPE BY WIDENING THE DITCH, HOLDING THE STANDARD DEPTH.

ST'D. CS-1: AS DETAILED HEREON WITH CUT SLOPE ROUNDING. ST'D. CS-1A: AS DETAILED HEREON EXCEPT THAT CUT SLOPE ROUNDING IS TO BE ELIMINATED.



SPECIFICATION
REFERENCE

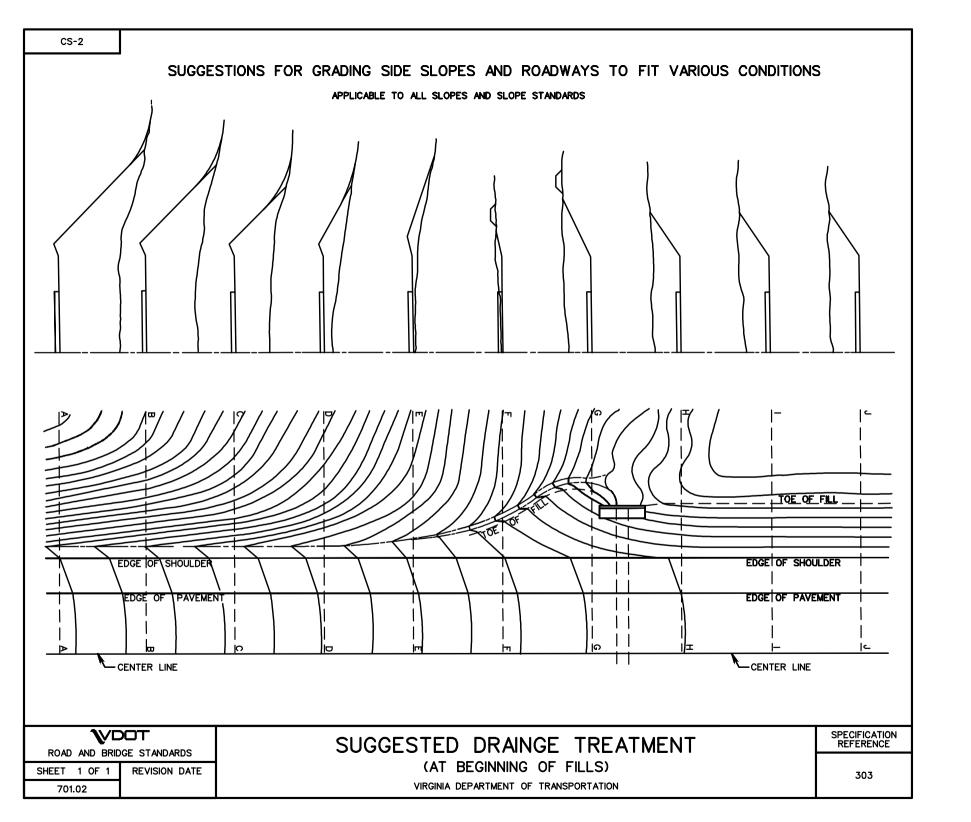
TYPICAL METHODS OF GRADING SIDE SLOPES

ROAD AND BRIDGE STANDARDS

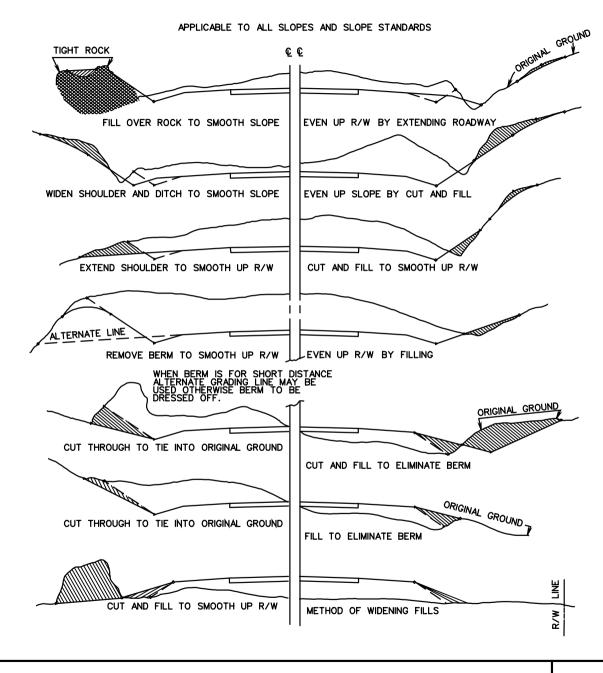
REVISION DATE

701.01

303



#### SUGGESTIONS FOR GRADING SIDE SLOPES AND ROADWAYS TO FIT VARIOUS CONDITIONS



SPECIFICATION REFERENCE

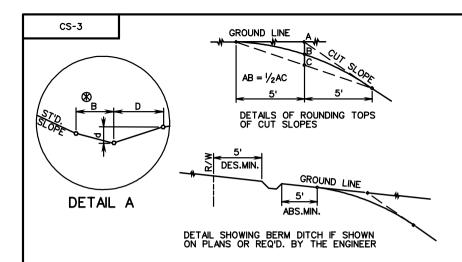
TYPICAL METHODS OF GRADING SIDE SLOPES

ROAD AND BRIDGE STANDARDS

303

VIRGINIA DEPARTMENT OF TRANSPORTATION

REVISION DATE



SLOPE ROUNDING TO BE IN ACCORDANCE WITH ABOVE DETAIL UNLESS. SPECIFICALLY EXCEPTED ON PROJECT TYPICAL SECTION(S).

SEE STANDARD CS-2A FOR SUGGESTED METHODS OF FINISHING SLOPES TO FIT VARIOUS CONDITIONS.

SEE STANDARD CS-2 FOR SUGGESTED METHOD OF TRANSITIONING FROM CUT

ALL SLOPES SHALL BE FINISHED IN ACCORDANCE WITH THIS PLAN AND NOTES HEREON. EXCEPTIONS: LACK OF RIGHT OF WAY, ROCK OUT-CROP, OR WHERE DESIRABLE TO SAVE TREES, SHRUBBERY, ETC., AS MAY BE DIRECTED BY THE ENGINEER. SHOULD THIS RESULT IN SURPLUS EXCAVATION MATERIAL, SUCH SURPLUS SHALL BE USED AS DIRECTED BY THE ENGINEER, IN LIEU OF BORROW, TO WIDEN FILLS, OR GRADE WITHIN THE RIGHT OF WAY. SHOULD IT RESULT IN INSUFFICIENT EXCAVATION MATERIAL, SUCH MATERIAL SHALL BE OBTAINED AS DIRECTED BY THE ENGINEER.

IN SHALLOW CUTS, WHERE POSSIBLE, KEEP THE CUT SLOPE AT LEAST AS STEEP AS THE DITCH SLOPE BY WIDENING THE DITCH, HOLDING THE STANDARD DEPTH.

MAXIMUM SLOPE RATE SHALL NOT BE CHANGED MORE THAN TWICE IN A CUT.

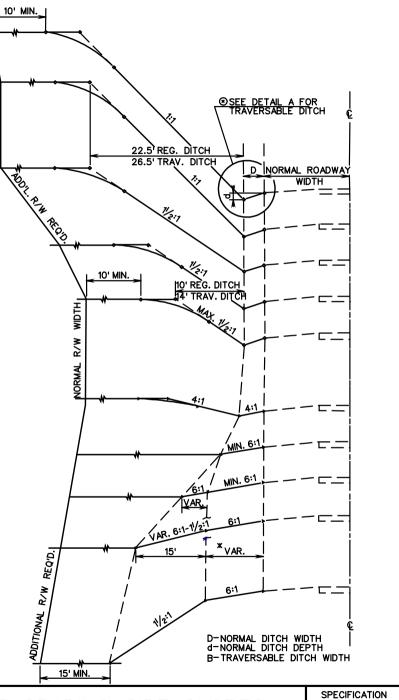
IF METHOD SHOWN FOR TRANSITIONING FROM 11/2:1 SLOPES AND VICE VERSA, PRODUCES TRANSITIONS TOO SHORT, THEY SHALL BE INCREASED TO 100' IN

WHEN RECOVERABLE AREAS ARE NOT INDICATED ON THE TYPICAL SECTION, THE FILL SLOPE IS TO BE APPLIED TO THE NORMAL SHOULDER WIDTH BREAK POINT.

- SEE TYPICAL SECTION FOR DITCH WIDTH.
- SEE TYPICAL SECTION FOR RECOVERABLE AREA WIDTH TO BE USED WITH NORMAL FILL SHOULDER WIDTH.

WHEN FOUND EXPEDIENT, STANDARD DITCH WIDTH AND DEPTH MAY BE INCREASED. THE DISTANCE BETWEEN BOTTOM OF DITCH AND MINIMUM OF RIGHT OF WAY LINE TO REMAIN AS SHOWN FOR STANDARD DITCH.

IN CUTS UP 400' IN LENGTH 1/2:1 SLOPES MAY BE CARRIED THROUGH REGARDLESS OF DEPTH, PROVIDED RIGHT OF WAY IS AVAILABLE.



**\**VDOT

701.04

ROAD AND BRIDGE STANDARDS

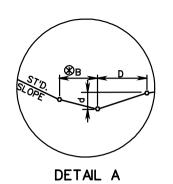
REVISION DATE SHEET 1 OF 1

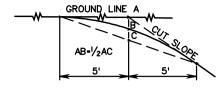
TYPICAL METHODS OF GRADING SIDE SLOPES

VIRGINIA DEPARTMENT OF TRANSPORTATION

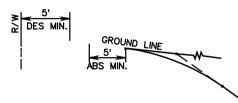
REFERENCE

303





DETAILS OF ROUNDING TOPS OF CUT SLOPES



DETAIL SHOWING BERM DITCH IF SHOWN ON PLANS OR REQ'D BY THE ENGINEER

SLOPE ROUNDING TO BE IN ACCORDANCE WITH ABOVE DETAIL UNLESS SPECIFICALLY EXCEPTED ON PROJECT TYPICAL SECTION(S).

SEE STANDARD CS-2A FOR SUGGESTED METHODS OF FINISHING SLOPES TO FIT VARIOUS CONDITIONS.

SEE STANDARD CS-2 FOR SUGGESTED METHOD OF TRANSITIONING FROM CUT TO FILL.

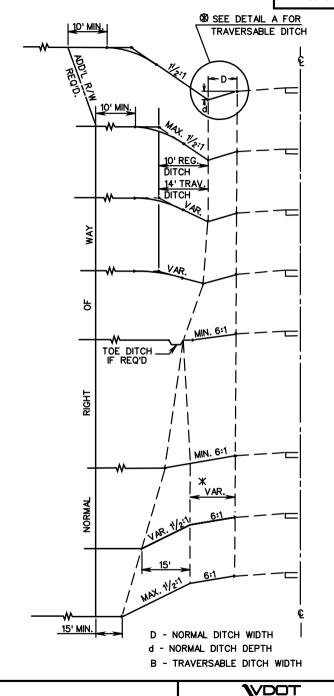
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IN SHALLOW CUTS, WHERE POSSIBLE, KEEP THE CUT SLOPE AT LEAST AS STEEP AS THE DITCH SLOPE BY WIDENING THE DITCH, HOLDING THE STANDARD DEPTH.

WHEN RECOVERABLE AREAS ARE NOT INDICATED ON THE TYPICAL SECTION, THE FILL SLOPE IS TO BE APPLIED TO THE NORMAL SHOULDER WIDTH BREAK POINT.

- SEE TYPICAL SECTION FOR TRAVERSABLE DITCH WIDTH AND SLOPE.
- $\ensuremath{\mathsf{X}}$  SEE TYPICAL SECTION FOR RECOVERABLE AREA WIDTH TO BE USED WITH NORMAL FILL SHOULDER WIDTH.



SPECIFICATION REFERENCE

TYPICAL METHODS OF GRADING SIDE SLOPES

ROAD AND BRIDGE STANDARDS

**REVISION DATE** 

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VIRGINIA DEPARTMENT OF TRANSPORTATION

SLOPE ROUNDING TO BE IN ACCORDANCE WITH ABOVE DETAIL UNLESS SPECIFICALLY EXCEPTED ON PROJECT TYPICAL SECTION(S).

DETAIL SHOWING BERM DITCH IF SHOWN ON PLANS OR REQ'D. BY THE ENGINEER

ARS.MIN

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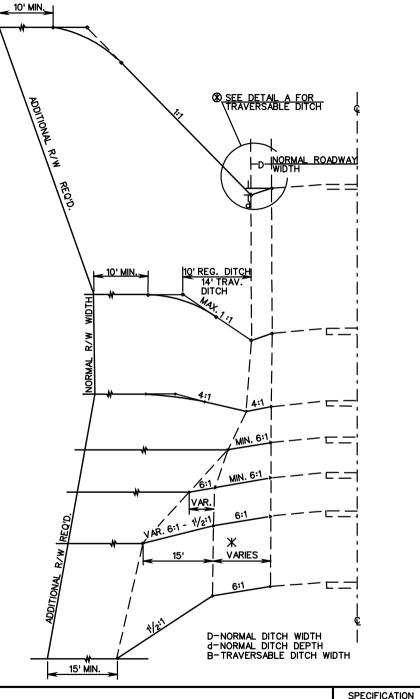
IN CUTS UP TO 400' IN LENGTH 11/2: 1 SLOPES MAY BE CARRIED THROUGH REGARDLESS OF DEPTH, PROVIDED RIGHT OF WAY IS AVAILABLE.

MAXIMUM SLOPE RATE SHALL NOT BE CHANGED MORE THAN TWICE IN A CUT.

IF METHOD SHOWN FOR TRANSITIONING FROM 11/2: 1 TO 1:1 SLOPES AND VICE VERSA PRODUCES TRANSITONS TOO SHORT, THEY SHALL BE INCREASED TO 100' IN LENGTH.

WHEN RECOVERABLE AREAS ARE NOT INDICATED ON THE TYPICAL SECTION, THE FILL SLOPE IS TO BE APPLIED TO THE NORMAL SHOULDER WIDTH BREAK POINT.

- (X) SEE TYPICAL SECTION FOR DITCH WIDTH
- \* SEE TYPICAL SECTION FOR RECOVERABLE AREA WIDTH TO BE USED WITH NORMAL FILL SHOULDER WIDTH



**\**VDOT

ROAD AND BRIDGE STANDARDS

SHEET 1 OF 1

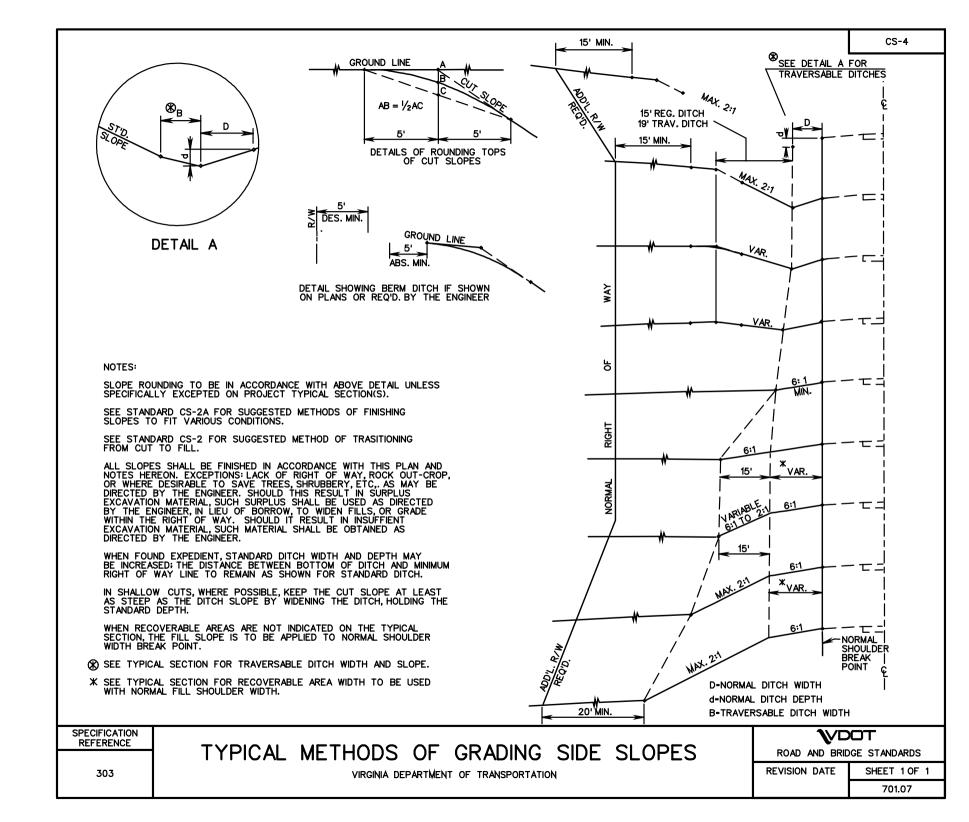
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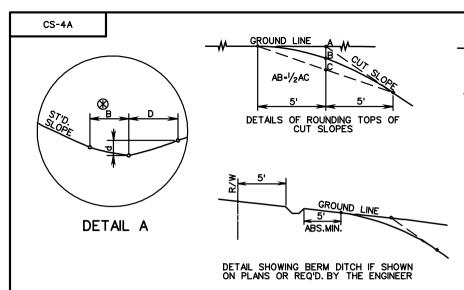
REVISION DATE

TYPICAL METHODS OF GRADING SIDE SLOPES

REFERENCE

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SLOPE ROUNDING TO BE IN ACCORDANCE WITH ABOVE DETAIL UNLESS SPECIFICALLY EXCEPTED ON PROJECT TYPICAL SECTION(S).

SEE STANDARD CS-2A FOR SUGGESTED METHODS OF FINISHING SLOPES TO FIT VARIOUS CONDITIONS.

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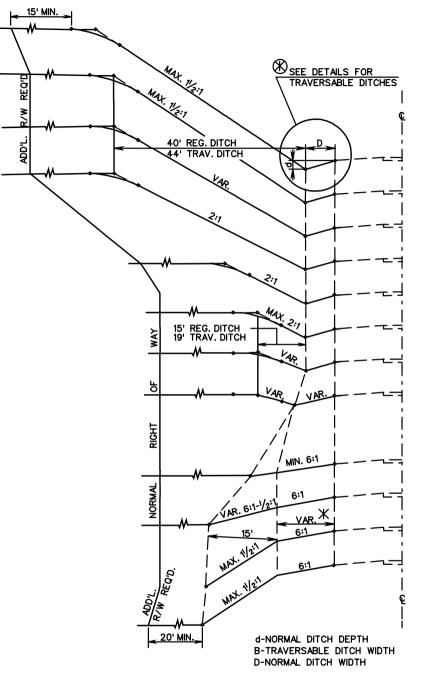
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MAXIMUM SLOPE RATE SHALL NOT BE CHANGED MORE THAN TWICE IN A CUT. IF METHOD SHOWN FOR TRANSITIONING FROM 2:1 TO 1/2:1 SLOPES AND VICE VERSA PRODUCES TRANSITIONS TOO SHORT, THEY SHALL BE INCREASED TO

- X SEE TYPICAL SECTIONS FOR RECOVERABLE AREA WIDTH WHEN RECOVERABLE AREAS ARE NOT INDICATED ON THE TYPICAL SECTION, THE FILL SLOPE IS TO BE APPLIED TO THE NORMAL SHOULDER WIDTH BREAK POINT.
- SEE TYPICAL SECTION FOR TRAVERSABLE DITCH WIDTH AND SLOPE.



**\**VDOT

ROAD AND BRIDGE STANDARDS

REVISION DATE

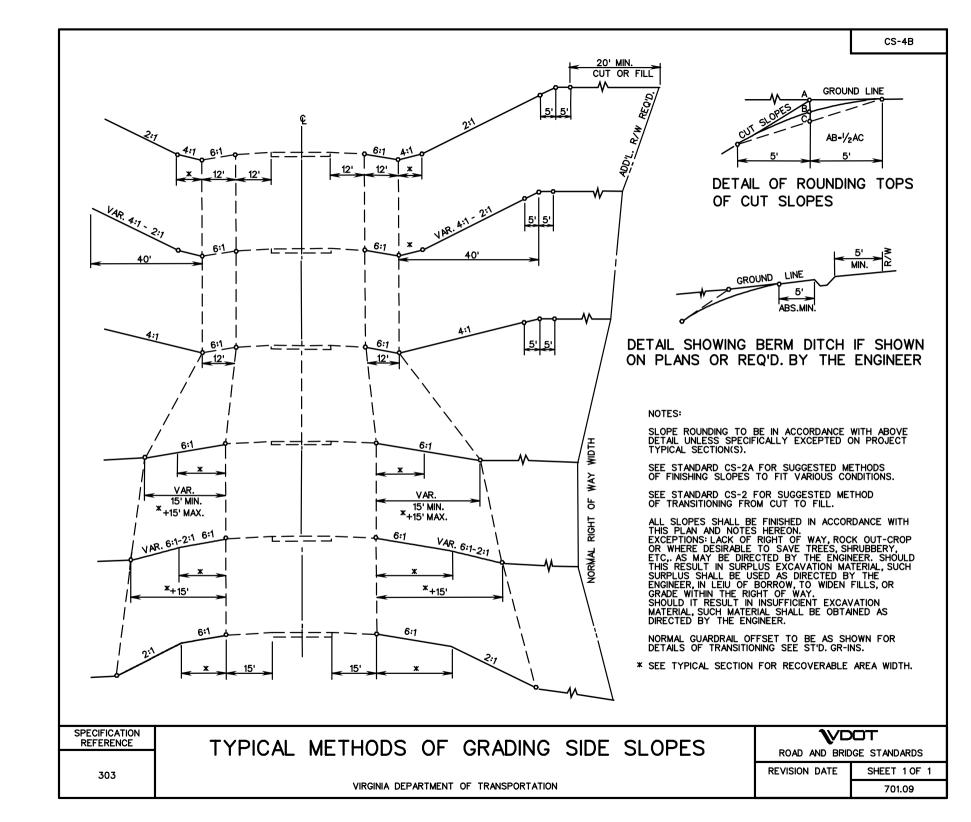
SHEET 1 OF 1

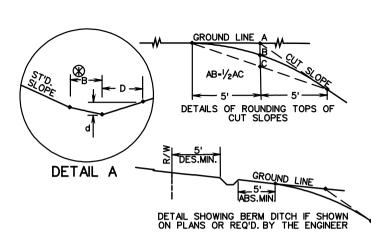
701.08

TYPICAL METHODS OF GRADING SIDE SLOPES

SPECIFICATION REFERENCE

303





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SEE STANDARD CS-2A FOR SUGGESTED METHODS OF FINISHING SLOPES TO FIT VARIOUS CONDITIONS.

SEE STANDARD CS-2 FOR SUGGESTED METHOD OF TRANSITIONING FROM CUT TO FILL.

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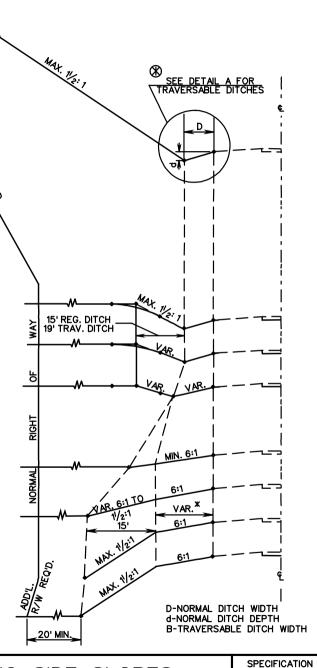
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- \* SEE TYPICAL SECTION FOR RECOVERABLE AREA WIDTH WHEN RECOVERABLE AREAS ARE NOT INDICATED ON THE TYPICAL SECTION. THE FILL SLOPE IS TO BE APPLIED TO THE NORMAL SHOULDER WIDTH BREAK POINT.
- SEE TYPICAL SECTION FOR TRAVERSABLE DITCH WIDTH AND SLOPE.



**\**VDOT

ROAD AND BRIDGE STANDARDS

REVISION DATE

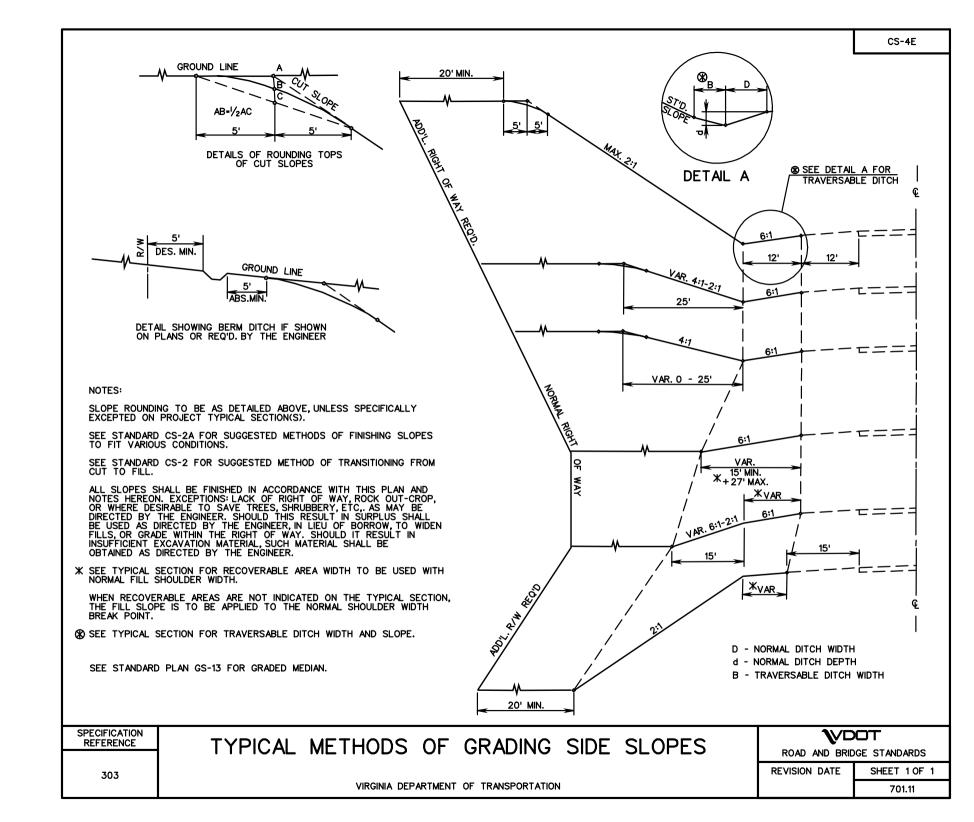
SHEET 1 OF 1 701.10

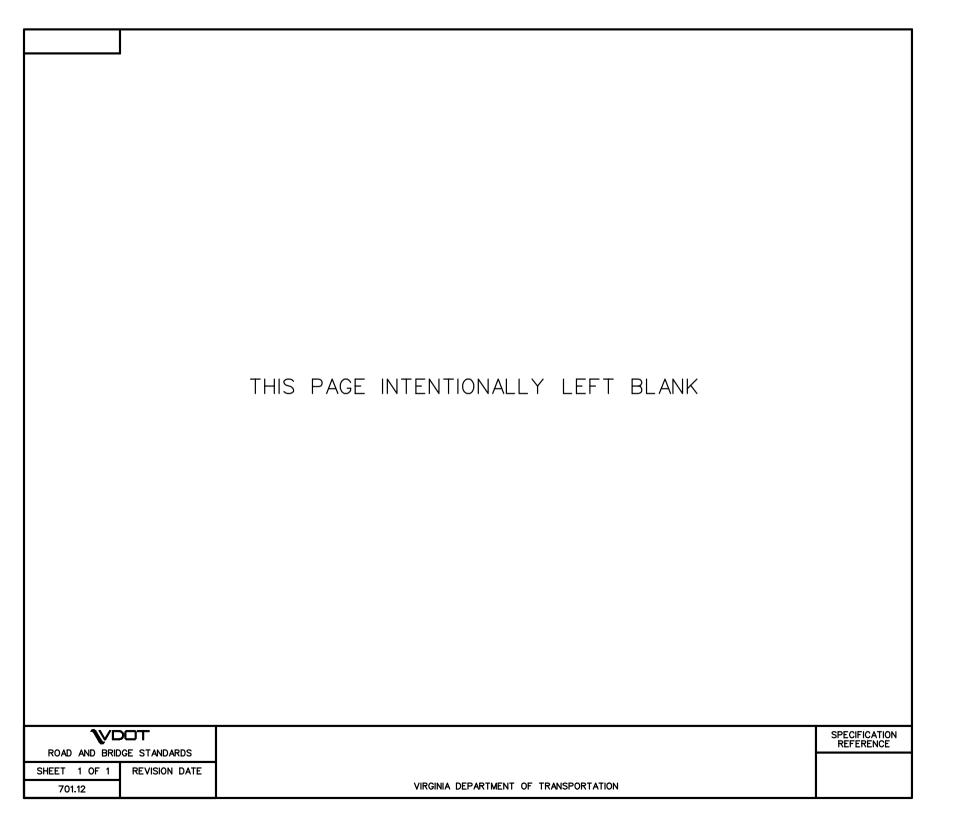
TYPICAL METHODS OF GRADING SIDE SLOPES

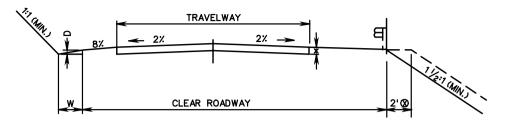
15' MIN.

REFERENCE

303







X SEE PLANS FOR BASE DEPTH AND TYPE AND PAVED SURFACE TREATMENT WHERE REQUIRED.

TYPICAL SECTION

♦ FOR GUARDRAIL: ADD 2'TO 4'SHOULDERS ADD 3'TO ALL OTHER SHOULDERS

BRIDGE WIDTH = APPROACH ROADWAY WIDTH (CLEAR ROADWAY).

	WIDTHS FOR TWO WAY TRAFFIC (LESSER WIDTH MAY BE USED FOR ONE-WAY)							
TYPE	CURRENT ADT	* TRAVELWAY WIDTH	SURF	ACE PAVED	MIN. & ROADWAY SHOULDER TO SHOULDER	DITCH WIDTH (W)	DITCH DEPTH (D)	PAY ITEM
Α	0-250	18'	/		22'	4'	16"	LF.
В	251- 750	20'	/		24' ABS. 30' DES.	4'	16"	LF.
С	751- 2000	22'		/	30' ABS. 34' DES.	4'	16"	* *
D	2001- 5500	24'		/	40'	4'	16"	* *
Е	5501- 15,000	24'		/	40'	4'	16"	* *
F	15,000- ABOVE	24'		/	40'	6'	18"	* *

GEOMETRICS							
DESIGN SPEED M.P.H.		20	30	40	50	60	70
MIN. RADII		108' R	251' R	465' R	760' R	1204' R	1821' R
MAX. % GRADE	DES. ABS.	8% 16%	7% 14%	7% 13%	6% 10%	5% 6%	5% 6%
STOPPING SIGHT DISTANCE	DES. MIN.	125'	200'	325' 305'	475' 425'	650' 570'	850' 730'
MAXIMUM SUPERELEVATION		8%	8%	8%	8%	8%	8%

IF GEOMETRICS AND WIDTHS SHOWN IN THESE CHARTS ARE GREATER THAN THE FINISHED CONTRACT DESIGN, APPROVAL MAY BE GRANTED BY THE DEPARTMENT FOR LESSER VALUES.

\* CURVES TO BE WIDENED IN ACCORDANCE WITH ST'D. TC-5.01R.

\*\* PAID FOR BY INDIVIDUAL QUANTITIES.

SPECIFICATION REFERENCE	MINIMUM	DESIGN	CRITERIA F	FOR	TEMPORARY	DETOURS
510			INTENANCE		. —	22.00.0

VIRGINIA DEPARTMENT OF TRANSPORTATION

ROAD AND BRIDGE STANDARDS

REVISION DATE SHEET 1 OF 1



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ROAD AND BRIDGE STANDARDS

SHEET 1 OF 1 REVISION DATE

702.02

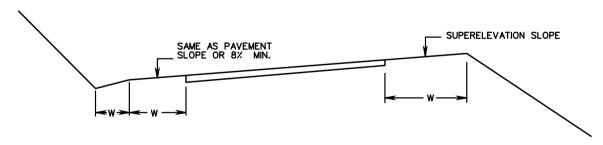
STANDARD SHOULDER DESIGN FOR ALL SYSTEMS EXCEPT LOCAL ROADS AND STREETS

### TANGENT SECTION



FOR WIDTHS OF SHOULDERS AND DITCHES (W) SEE STANDARDS..

### SUPERELEVATED SECTION



FOR WIDTHS OF SHOULDERS AND DITCHES (W) SEE STANDARDS.

SPECIFICATION REFERENCE STANDARD SHOULDER DESIGN FOR LOCAL ROADS & STREETS

VIRGINIA DEPARTMENT OF TRANSPORTATION

**WDOT** 

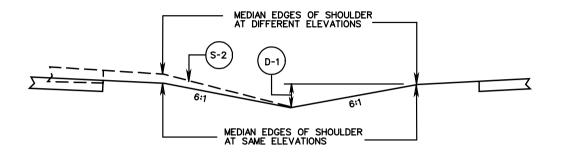
ROAD AND BRIDGE STANDARDS

REVISION DATE

SHEET 1 OF 1

# MEDIAN EDGES OF SHOULDER AT SAME OR APPROXIMATELY SAME ELEVATION

(GRADING TO CENTER OF MEDIAN)



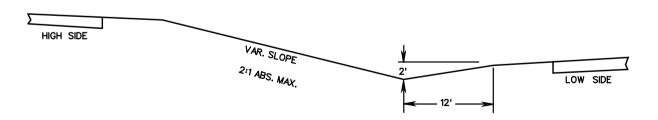
D-1 VARIABLE DEPTH (2' MIN.)

S-2) VARIABLE SLOPE

HOLD A 6:1 SLOPE FROM THE EDGES OF MEDIAN SHOULDERS (FROM THE LOWER MEDIAN SHOULDER IF AT DIFFERENT ELEVATIONS) TO THE CENTER OF MEDIAN. .

# MEDIAN EDGES OF SHOULDER AT DIFFERENT ELEVATIONS

(GRADING FROM HIGH SHOULDER TO DITCH ADJACENT TO LOWER ROADWAY)



HOLD A 2' DITCH DEPTH, 12' WIDE, ADJACENT TO LOWER SHOULDER.

ROAD AND BRIDGE STANDARDS

## STANDARD GRADED MEDIAN DESIGNS

SPECIFICATION REFERENCE

VIRGINIA DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 1 REVISION DATE 702.04