Scale: 1" Horizontal = feet TBM 1" Vertical = feet TBI							TBM D	escri _l Elev	ption & ration:							<u>S</u>	Stream Cross—Section									Numbers in circles correspond to Design Notes listed at the bottom of this sheet. Match number to appropriate detail to determine expected construction methods.											
																																					.
=					_																+				_											=	.
																																				≡ I	.
												1	1				4			0.1 لمست.																=	.
=												_	LOC	cations of	initiai	cuts	to provid	ie tr	ie requ	iirea o:i	en	trance and	exit si	opes :	start (יים אינ										=	.
												-	sta	ition	+_		and stat	ion .		_+	<u>_</u> .	Excess m	iaterial t	o be	dispos	sed										± 1	.
													of	out of fl	oodplai	in in I	ocation(s) ap	proved	by the	land	downer.														=	.
=																																				=	.
_									-			-													\rightarrow					_						= 1	.
=																					-															=	,
																																				\equiv	. 9
=									+			-													+					_						=	ang r
																																					esi)rav
=																														_						≠ I	
																																					1
=	_								_			_	_												\rightarrow					_						= I	1
															$+$ \mp						=															∓ I	ı
\pm																																				⋣ I	ı
						=															+				=					=	$=$ \equiv					# I	ı
													=								\pm										=					≢Ι	ı
						\vdash																+														# I	ı
																					\pm															=	ı
		\pm			\pm																\pm											\pm				<u></u>	ı
																																					1
																																				=	ı
																																				∓ I	ı
																																					ı
																									\Rightarrow											= 1	ı
																																				\equiv	ı
=																									\Rightarrow					_						=	ı
																																					1
=																																				= 1	ı
																																				≡	ı
																																					ı
																																				≢ I	ı
																																					ı
=									_												_															# I	1
																																					ı
=					+				+			_							_			\rightarrow			\rightarrow					_						≠ I	1
																																				≡	ı
																			_			1 1			_											± I	1
==																									\Rightarrow											=	ı
\equiv		_											_								+															≢ I	ı
																																				=	ı
		-																			+				1											₩ I	ı
					\perp																\perp															≡ I	ı
						\vdash																+														# I	ı
																																				= I	ı
=					\pm																\pm															# I	ı
=																					=					:										∓ I	ı
\pm																																				± I	
						\vdash																								=						# I	
1) Local slopes flatter be se armor Excess	cations are s Graded. ed with mate	of the hown. de sid Grade VDOT	e initial Ramp e slopes to 2:1 #1 sto be dis on appr	cuts to slope s to 3: if they one ove posed o	o pro to be 1 if are ar geo of ou	e 8:1 they to otext it of	1 or are be tile.		so stre the place below	the rame ambed. natural sed to how the e	nps blen Do no flow pa narden c existing in the used as (non-	d na it plo th of <u>hann</u> natur will h -wove	turally ice sto the s el bott al grad nave the	s needs to into the stream. It is to must de of the recomment tensile st	existir will ob Any st be in stream g min ded):	ng ostruct <u>one</u> stalled m.	5) If they the f may	the shall encir be s	urer's livesto l be ar ng will seeded.	specificon ock will had rmored value restrict All se	atior nave with acc edin	on both as and sto access to stone (Se ess then g will be blishment	apled in the slee note the slop done	place opes 1). I es	. as Co f 8) is fe fr	Fencing required conservation on direct rocking. The construction of the conservation	and n Dis et fe etly o his v torn stree	l approventict per ncing acception of the contract of the cont	red by I ersonnel. cross the d to the the pe along w he even	e sti per rmar ith tl t of	ream mane nent f he fer a flo	so the solution of the solutio	at it orian				S, NRC
			provide ing stre				to	the			20 pound			bursting								nor for sti #357 stor			se fe	eparate poencing. The	osts his v	erected vill allow	next to , for ea	the sier	ripar repair	rian r shou	ld				

6 inches of VDOT #1 stone placed over

used on a frequent basis by livestock.

geotextile. Refer to sheet 2 of 2 for drawings

of the actual layer details. Additional finer stone may be brought in as a cap to provide a more

suitable hoof-contact zone if the crossing will be

strength.

* Elongation at failure greater than 50%.

* 90 pound minimum puncture strength.

150 hours exposure to Ultraviolet light.

* 70% minimum residual tensile strength in

excavated six inches (or until a stable foundation

Standard Drawings shall NOT b altered without State Conservation Engineer Approval

is reached) and backfilled with VDOT #1 stone.

If no stone is needed to harden the "stream

VA-ENG-S0-801 SHEET 1

VIRGINIA ENGINEERING STANDARD DRAWING

/s/ | Mathew Lyons, <u>SCE</u>

STANDARD DWG NO:

2/05

File Name VA—ENG— SO-INT801.dwg Drawing Name Stream Crossing Design Sheet

the cross-stream fencing be torn down.

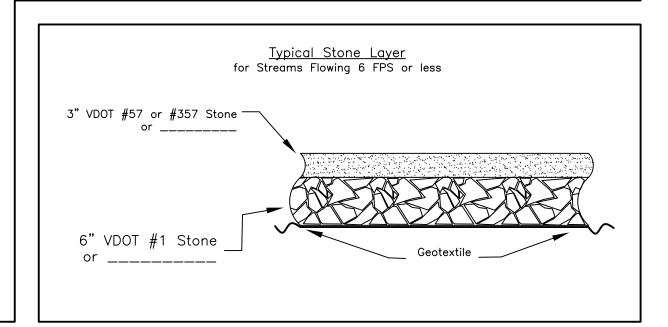
Cross-stream fencing shall be of a type approved

by local NRCS or Conservation District personnel.

Crossing width to be _____feet wide 1

<u>Typical Plan View</u> Showing typical fencing detail (no scale)

- 1) End Permanent riparian fencing here.
- 2) Begin cross stream riparian fencing here.
- 3) Cross the stream with fencing that is not attached directly to the permanent riparian fencing. Double fence posts at the fence intersections will prevent permanent fence damage in a flood. Type of fence to be approved by local NRCS or Conservation District.
- 4) Seed side slopes according to the Plant Establishment Guide for Virginia if fence runs along edge of ramp. If the fence must be installed along top of slope or the side slopes are too steep to be stable then armor the slope with 4" to 6" thick layer of VDOT #1 stone over geotextile. Side slopes must be 2:1 or flatter.
- 5) Ramp slopes are to be 8:1 or flatter.



Notice to Landowners and Contractors— Unless otherwise specifically shown by means of plan view, profiles, and elevations, this construction plan represents only surface conditions and layout requirements. No representation is made by the NRCS, USDA, as to the existence of unmarked underground hazards. Prior to the start of construction, it is the responsibility of the landowner to contact Miss Utility of Virginia at 1-800-552-7001 or 1-800-257-7777.

VIRGINIA ENGINEERING	STA	NDARD DRAW	ING	
/s/ Mathew Lyons, SCE		Standard D altered with Conservatio	nout Štate	
STANDARD DWG NO:	VA	-ENG-SO-80)1	
DATE 2 /OF		CLIEFT 0	٥٢	2

									2	Stre	am	Pro	ofile														
														=						=			_				=
					-			-							-		-				-						
																											\blacksquare
																											=
																											=
																											=
																- i			- i		-						=
																		-									
																											\blacksquare
																											=
																											=

Natural Resources Conservation Service United States Department of Adriculture

File Name
VA—ENG—
SO—INT801.dwg
Drawing Name
Stream Crossing
Design Sheet

heet