FEI	DERAL HIGI	HWAY ADMINISTRATIO	Sheet No:	1	of	6		
		DAMAGE SURVEY F		•	DSR No:		2-2.88	
	(-	Title 23, Federal-Aid System/F	ederal Domain)		•			
Applicant:			County:	State:	Inspection	o: NC 2004-1-FS Date:	<u>ز</u>	-
Forest Service	- Pisgah NF	- I	Burke	NC	11-22-04			
	0 (No., Name of Road and Mile Po	ost,Map Grid)		ADT: 75			
Mortimer Pied	mont, NFSR 98	82, MP. 2.88						
Bridge Data:	ļ	Road Data:	Classification: ML4		Photograpl 982-2.88-0	h #: 982-2.88-01 าว	, 982-2.8	38-02,
Туре:		Traveled Way Width: 12	Surface Type: AGG	Thickness:	_ 502-2.00 0	3		
ID#:		· ·	,	4"	†			
		Shoulder Width: 2 mage: Due to excessive	Pre-storm cond: good Scope/Description of Re		I sting Slope	by means of Soil	Nailing F	ailing
rainfail and ex Water overflow	isting culvert co wed over the roa adbed and fill slo	ouldn't handle the water. nadbed and approximately lope became saturated and	Areas. 20 feet steel rod will be launched into the faliure area stablizing the fill slope and maintaining adequate travelway width. Rip-Rap nor Soil could be placed re regain the travelway width at this site and continue sloughing into the stream. We propose soil launching steel nails into this site using 3 rows on nails on 3 foot cneters, supporting a x 12' coconut mat and twisted wire mesh facing.					
Quantity	Unit	COST E	Item Description	ICY REPAIRS*		Unit Price	С	Cost
Quantity	Olin		Item Description			Office root	<u>_</u>	USI
		 				<u> </u>		
		1						
Proposed:	Force	e Account Contra	act	Total Emer	gency Repa	iirs		
·			STIMATE for PERMAN		<u> </u>			
Quantity	Unit		Item Description	INT KEFAINO		Unit Price	C	Cost
1	LS	Mobilization, Trackhoe with	Soil Nail Launcher			\$3,500.00		\$3,500
60	LF	Launching Soil Nails including	g coconut matting with tw	isted wire mesh		\$600.00	<u> </u>	\$36,000
250	LF	Silt Fence				\$7.50		\$1,875
180	SY	Seed and Mulch				\$7.50	⊢—	\$1,350
1	LS	Tempoary Traffic Control				\$1,800.00	⊢—	\$1,800
24	HR	Flaggers				\$32.00		\$768
		 						
						 		
								
						ſ	ſ	
			S	ubtotal Permanent	Repairs (co	ntinuation sheet)	Í	
Proposed:			ontract XX		Total Per	rmanent Repairs		\$45,293
Identify Better	ment, if any, an	nd provide justification*		Preliminary Engi	ineering		<u> </u>	\$6,794
				Construction En	gineering	ŀ	<u> </u>	\$4,529
				Right-of-Way		ŀ	<u> </u>	
				Other Bond (2.5	,	ŀ	⊢——	1132
				TOTAL ESTIMA (Emergency and Per			1	\$57,749
Submitted By:	(Name and Title)			Signature: / X /	-,	9,	Date:Jul	y 6, 2005
	Forest Engi	ineer				!	1	, .
Reviewed By:	(Name and Title)		1	Signature:			Date:	
		l	Eligible Ineligible			ŀ	1	
Recommende	d By: (Name and	Title)	 	Signature:			Date:	
recommende	2 Dy. (Hamo and		Eligible Ineligible					

^{*}Attach Supplemental Sheets if necessary

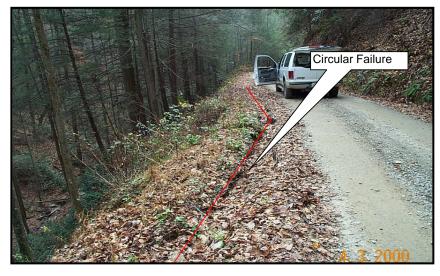
FEDERAL HIGHWAY ADM	INISTRATIO	N, Federal La	nds Highway	Sheet No:	2	of	6
DAMAGE SURVE	Y REPORT	(Supplemental Sh	eet)	DSR No:	9	82-2.88	}
(Title 23, Federa		Disaster No:	: NC 2	004-1-F	:S		
Applicant:	County:	State:	NC	Inspection D	Jate:		
USDA Forest Service - Pisgah NF	Burke			11-22-04			
Location of Damage (Route No., Name of I Mortimer Piedmont, NFSR 982, MP. 2.88		Post,Map Grid)		ADT: 75			



982-2.88-01



982-2.88-02



982-2.88-03

Location of Damage (Route No., Name of Road and Mile Post, Map Grid)	Sheet No:	3	of	6
Mortimer Piedmont, NFSR 982, MP. 2.88	DSR No:		982-2.88	

DSR No. NFNC 4663-1.78

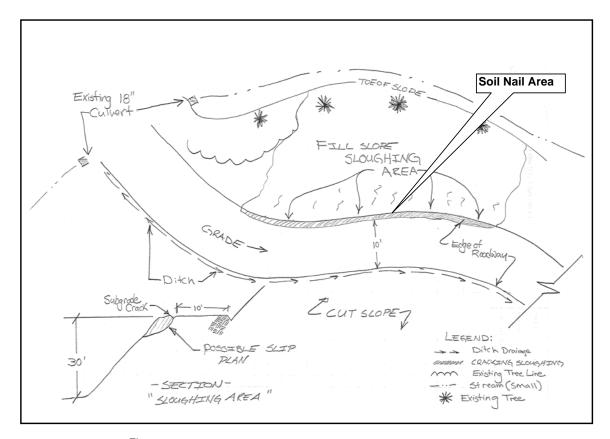
Betterment Justification Replace Earth Embankment vs.Stablization by Soil Nailing

	REPAIR IN-KIND BETTERMENT									
excavation (60' x 10' x 12') Borrow Exaggregate Base Surfacing Bub Grade Base Geed all disturbed areas Bilt fence		Replace Ea	rth Embankme	nt	Stabilize Earth by Soil Nailing Failure Areas					
	UNIT	QUANTITY	UNIT PRICE	COST	UNIT	QUANTITY	UNIT PRICE	COST		
Mobilization	LS	1	\$1,000	\$1,000	LS	1	\$3,500	\$3,500		
Excavation (60' x 10' x 12')	CY	260	\$8	\$2,080						
Borrow	CY	260	\$10	\$2,600						
Aggregate Base Surfacing	Ton	72	\$25	\$1,800	Ton	46	\$25	\$1,150		
Sub Grade Base	Ton	72	\$22	\$1,584	Ton	46	\$22	\$1,012		
Seed all disturbed areas	SY	800	\$8	\$6,000	SY	180	\$8	\$1,350		
Silt fence	LF	200	\$8	\$1,500	LF	200	\$8	\$1,500		
Stabilization using Soil Nailing					LF	60	\$600	\$36,000		
	<u> </u>									
TOTAL				\$16,564				\$44,512		
Cost to repair damage in the future (w/betterment)			every 5 years @ /F, 7%,5,10,15		ent. (Desi	gn Life = 20 Y	'ears)	\$4,600		
Cost to repair damage in the	Assume m	najor repair e	every 5 years @	[®] \$65,000 / €		sign Life = 20	Years)	· ·		
future (w/o betterment)	Earth Rep	lacement:	\$65,000(P/F, 7	%,5,10,15,2 0))			\$119,600		
BENEFIT		(Difference in future repair costs over equal life)								
COST	()	(Additional Cost to repair the site as a result of adding the betterment)								
BENEFIT / COST								4.115		
REMARKS	Stabilization residents.	on using Soi	l Nail Launchin	g offers subs	staintal cos	ts benefits ar	nd reduces impa	acts local		

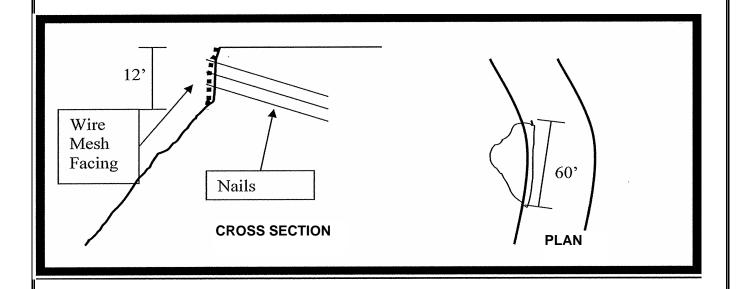
FEDERAL HIGHWAY ADMINISTRATION, Federal Lands Highway						Sheet No:	4	of 6					
	DAN	IAGE SU	RVEY RE	PORT	Γ		DSR No:		982-2.88				
	(Title 23, F	ederal-Aid S	System/Fed	eral Do	omain)			o: NC 2004					
Applicant:				County	y:	State:	Inspection		-1-10				
USDA Forest Service	- Pisgah NF	=		Burke		NC	11-22-04						
Location of Damage (F Mortimer Piedmont, N			ad and Mile	Post,Map Grid) ADT: 75									
Bridge Data:		Road Data	:	Classif	fication: ML4	Photograph #: 982-2.88-01, 982-2 VIL4 982-2.88-03							
Type:		Traveled W			e Type: AGG	Thickness		2 2.00 00					
ID#:			•		orm cond: good	4"							
Description and Cause	e of Damag	Shoulder We: Due to ex		Pre-su		escription of	Repair:						
Description and Cause of Damage. Due to excessive rainfail and existing culvert couldn't handle the water. Water overflowed over the roadbed and approximately 100' of the roadbed and fill slope became saturated and slid down the hill.					This is not		alternative	the top of th	ne subgrade. (60'				
		(COST ESTI	MATE	for EMERGENC	Y REPAIRS	S*						
Quantity Unit					m Description			Unit Price	Cost				
								\$0.00	\$0				
									\$0				
									\$0				
									\$0				
									\$0 \$0				
									\$0				
Proposed: Force Account Contract Total E					Γotal Emerge	ency Renair							
тторовов.	1 0100 7100							oney respan	Ψ				
Quantity	Unit	<u> </u>	COSTESII		for PERMANEN m Description	II REPAIRS	5*	Unit Price	Cost				
1	LS	Mobilization	n	110	III Doddinpilori			\$1,000.00	\$1,000				
260	CY		Unsuitable	Materi	al			\$8.00	\$2,080				
260	CY	Borrow Ma						\$10.00	\$2,600				
72	Ton	Aggregate	Base Surfac	cing				\$25.00	\$1,800				
72	Ton	Sub Grade	Base					\$22.00	\$1,584				
800	SY	Flaggers						\$7.50	\$6,000				
200	LF	Silt Fence						\$7.50	\$1,500				
1	LS		Traffic Cont	rol				\$1,800.00	\$1,800				
24	HR	Flagers						\$32.00	\$768				
									\$0				
									\$0 \$0				
									\$0				
									\$0				
					Subtotal Perr	nanent Repa	airs (continua	ation sheet)					
Proposed:	Force Acc	count	(Contrac			otal Permane		\$19,132				
Identify Betterment, if	any, and pro	ovide justific	ation*			Preliminar	y Engineerin	ng	\$2,870				
						Constructi	on Engineer	ing	\$1,913				
						Right-of-V	V ay		\$0				
						Other Bo	, ,		478				
							STIMATED C and Permanen		\$24,393				
Submitted By: (Name ar Lynn Hicks Fores	,	er				Signature		т керапэ)	Date:July 6, 2005				
Reviewed						Signature	:		Date:				
By: (Name			Eliç	gible	Ineligible								
and Title) Recomme						Signature			Date:				
nded By: Eli				مامان	Ineligible	oignature.			Date.				

^{*}Attach Supplemental Sheets if necessary

FEDERAL HIGHWAY AD	MINISTRATI	ON, Federal L	ands Highway	Sheet No:	5	of	6
DAMAGE SUR	EY REPORT	(Supplemental S	heet)	DSR No:	98	82-2.8	8
(Title 23, Fed	leral-Aid System	/Federal Domain)		Disaster No	: NC 20	004-1-	FS
Applicant:	County:	State:	NC	Inspection D	Date:		
USDA Forest Service - Pisgah NF	Burke			11-22-04			
Location of Damage (Route No., Name		e Post,Map Grid)		ADT: 75			
Mortimer Piedmont, NFSR 982, MP. 2.	88						



Flaggers



FEDERAL HIGHWAY ADMINIST	Sheet No:	6	of	6			
DAMAGE SURVEY RE	DSR No:		982-2.88				
					NC 200	4-1-FS	
Applicant:	USDA	County:	State:	Inspection Da	ate:		
Forest Service - Pisgah NF	Burke	NC	11-22-04				
Location of Damage (Route No., Name of Ro	,Map Grid)		ADT: 75				
Mortimer Piedmont, NFSR 982, MP. 2.88							

