REQUEST FOR BOARD ACTION

HENDERSON COUNTY BOARD OF COMMISSIONERS

MEETING DATE:	September 5, 2017
SUBJECT:	Conditional Letter of Map Revision (CLOMR) Request by NCDOT
PRESENTER:	Natalie Berry, Project Engineer/Floodplain Administrator
ATTACHMENTS:	Yes 1. NCDOT 2. Sample Letter 3. Alternates Considered 4. Impact table 5. Maps of affected property

SUMMARY OF REQUEST:

On August 17, 2017 Mark Shown with the Hydraulics Unit of NCDOT in Raleigh contacted the Henderson County Floodplain Administrator in regards to replacing an existing bridge at the intersection of Hooper Lane and Mills River in the Town of Mills River due to deficencies. The subject bridge is located at the border of Town of Mills River and Henderson County jurisdiction, and in the Federal Emergency Management Agency (FEMA) designated special flood hazard area (SFHA).

This project proposes to replace the existing bridge with one that is larger in size and will increase the flood water elevation by 0.2 feet on properties located in Henderson County. For affected parcels of land, see attached map. One of the affected parcels is located outside of the special flood hazard area prior to replacement and would be included after replacement.

NCDOT has four (4) alternatives to the current design that would not affect the adjacent property owners, which are included as part of this item.

Before NCDOT can proceed with construction, a community official must sign an acknowledgement form either in agreement or disagreement with the project. In addition, the community must send notification letters to those affected properties making them aware of the potential increase. The acknowledgement form and a sample letter are included in this packet for information.

BOARD ACTION REQUESTED:

The Board is requested to review and discuss NCDOT's proposal, and direct staff accordingly.

Suggested Motion(s):

No motion suggested.



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR JAMES H. TROGDON, III Secretary

June 28, 2017

Ms. Natalie Berry, PE Project Engineer Henderson County 100 N. King Street Hendersonville, NC 28792

SUBJECT: Request for Conditional Letter of Map Revision on Mills River, Henderson County, SR 1353 Hooper Lane

Ms. Berry:

We are enclosing the CLOMR submittal package for the subject project for your review.

The proposed roadway project involves the replacement of Bridge 147 on SR 1353 (Hooper Lane). The new roadway is designed as a two-lane with shoulder section facility. The project will encroach on the Mills River, which is included in a FEMA Flood Hazard Zone detailed study. This study has a regulatory floodway established.

If you as a representative of the community are in agreement with the proposal to allow development of the highway project, please sign Part D of the MT-2 Form 1 (Page 2 of 3), attached to this cover letter and return to me at the address shown on the next page. (Alternatively, a scanned copy can be emailed to Marc Shown (<u>mshown@ncdot.gov</u>) if desired).

A complete copy of the package has already been sent to Stephen Garrett at N.C. Floodplain Mapping Program (FMP) for their technical review. If there are any questions about this review please contact Steve at (919) 825-2316.

FEMA and the N.C. Floodplain Mapping Program require that all affected property owners be notified of the CLOMR in writing. The property owner notification list and the floodway change notification letters are in the attached CLOMR package. Please pay special attention to the list of affected property owners to ensure that they are correctly identified.

Telephone: (919) 707-6700 Fax: (919) 250-4108 Customer Service: 1-877-368-4968 *Location:* 1020 BIRCH RIDGE DRIVE RALEIGH, NC 27610

Website: www.ncdot.gov

Ms. Natalie Berry Page 2 June 28, 2017

When we notify you that NC Floodplain Mapping has completed their technical review, please print the letters on your letter head and send them to the affected property owners. In addition, please send me a copy of each of these letters to the address below:

North Carolina Department of Transportation Hydraulics Unit Attn: Marc Shown, PE 1590 Mail Service Center Raleigh, NC 27699-1590

I will then forward them on to FMP for their use.

If you have any questions or need further assistance, please contact Marc Shown, PE at (919) 707-6751.

Sincerely,

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Marc Shown, P.E. NCDOT Hydraulics Engineer

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 1 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless it displays a valid OMB control number. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 20958-3005, Paperwork Reduction Project (1660-0016). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. Please do not send your completed survey to the above address.

PRIVACY ACT STATEMENT

AUTHORITY: The National Flood Insurance Act of 1968, Public Law 90-448, as amended by the Flood Disaster Protection Act of 1973, Public Law 93-234.

PRINCIPAL PURPOSE(S): This information is being collected for the purpose of determining an applicant's eligibility to request changes to National Flood Insurance Program (NFIP) Flood Insurance Rate Maps (FIRM).

ROUTINE USE(S): The information on this form may be disclosed as generally permitted under 5 U.S.C § 552a(b) of the Privacy Act of 1974, as amended. This includes using this information as necessary and authorized by the routine uses published in DHS/FEMA/NFIP/LOMA-1 National Flood Insurance Program (NFIP); Letter of Map Amendment (LOMA) February 15, 2006, 71 FR 7990.

DISCLOSURE: The disclosure of information on this form is voluntary; however, failure to provide the information requested may delay or prevent FEMA from processing a determination regarding a requested change to a (NFIP) Flood Insurance Rate Maps (FIRM).

A. REQUESTED RESPONSE FROM DHS-FEMA

This request is for a (check one):

CLOMR: A letter from DHS-FEMA commenting on whether a proposed project, if built as proposed, would justify a map revision, or proposed hydrology changes (See 44 CFR Ch. 1, Parts 60, 65 & 72).

LOMR: A letter from DHS-FEMA officially revising the current NFIP map to show the changes to floodplains, regulatory floodway or flood elevations. (See 44 CFR Ch. 1, Parts 60, 65 & 72)

B. OVERVIEW

1.	1. The NFIP map panel(s) affected for all impacted communities is (are):										
Con	ommunity No. Community Name						State	Map No.	Panel No.	Effective Date	
Exa	mple	mple: 480301 City of Katy 480287 Harris County						TX TX	48473C 48201C	0005D 0220G	02/08/83 09/28/90
370	Henderson County							NC	370096	9641J	10/02/08
370	025		Mills River, To	wn of				NC	370096	9641J	10/02/08
2.	a. Flooding Source: Mills River										
	b. Types of Flooding. A Rivenne Coastai Shanow Flooding (e.g., Zones AO and AH)										
	Alluvial fan Lakes Other (Attach Description)										
3.	Project Name/Identifier: SF-440147										
4.	FEMA zone designations affected: AE (choices: A, AH, AO, A1-A30, A99, AE, AR, V, V1-V30, VE, B, C, D, X)										
5.	5. Basis for Request and Type of Revision:										
	a. The basis for this revision request is (check all that apply)										
		Physical Change		Improved Methodology/Data		Regulatory Floodway Revision		Revision [Base Map Changes		
	Coastal Analysis		🛛 Hydraulic Analysis		Hydrologic Analysis		[Corrections			
	U Weir-Dam Changes		Levee Certification		Alluvial Fan Analysis		[Natural Changes			
	New Topographic Data Other (Attach Description)										
	Note: A photograph and narrative description of the area of concern is not required, but is very helpful during review.										

b. The area of revision encompasses the following structures (check all that apply)								
Structures:	Channelization	/ee/Floodwall	Bridge/Culvert					
	🗌 Dam 🔤 Fill		Other (Attach Des	scriptio	n)			
6. 🛛 Documentation of ESA compliance is submitted (required to initiate CLOMR review). Please refer to the instructions for more information.								
	C. RE	/IEW FEE						
Has the review fee for the appropriate request category been included? Xes Fee amount: \$6,750								
] No, Attach Explana	ation				
Please see the DHS-FEMA Web site	at http://www.fema.gov/plan/prevent	/fhm/frm_fees.shtm f	or Fee Amounts and	Exem	ptions.			
	D. 510	NATURE						
All documents submitted in support of fine or imprisonment under Title 18 of	this request are correct to the best o the United States Code, Section 100	my knowledge. I ur 1.	derstand that any fals	se state	ement may be punishable by			
Name: Marc Shown, PE		Company: NCD	OT Hydraulics Unit					
Mailing Address: 1590 Mail Service Center		Daytime Telepho	Daytime Telephone No.: (919) 707-6751 Fax No.:					
Raleigh, NC 27699-1590		E-Mail Address: mshown@ncdot.gov						
Signature of Requester (required):			Date:					
As the community official responsible for floodplain management, I hereby acknowledge that we have received and reviewed this Letter of Map Revision (LOMR) or conditional LOMR request. Based upon the community's review, we find the completed or proposed project meets or is designed to meet all of the community floodplain management requirements, including the requirements for when fill is placed in the regulatory floodway, and that all necessary Federal, State, and local permits have been, or in the case of a conditional LOMR, will be obtained. For Conditional LOMR requests, the applicant has documented Endangered Species Act (ESA) compliance to FEMA prior to FEMA's review of the Conditional LOMR application. For LOMR requests, I acknowledge that compliance with Sections 9 and 10 of the ESA has been achieved independently of FEMA's process. For actions authorized, funded, or being carried out by Federal or State agencies, documentation from the agency showing its compliance with Section 7(a)(2) of the ESA will be submitted. In addition, we have determined that the land and any existing or proposed structures to be removed from the SFHA are or will be reasonably safe from flooding as defined in 44CFR 65.2(c), and that we have available upon request by FEMA, all analyses and								
Community Official's Name and Title: Natalie J. Berry PE, Project Engineer Community Name: Henderson County								
Mailing Address:		Daytime Telepho	ne No.: 828-694-625	1	Fax No.: 828-697-4533			
Hendersonville, NC 28792		E-Mail Address:	nberry@hendersonco	ountync	ntync.org			
Community Official's Signature (requir	ed):		Date:					
CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR								
This certification is to be signed and sealed by a licensed land surveyor, registered professional engineer, or architect authorized by law to certify elevation information data, hydrologic and hydraulic analysis, and any other supporting information as per NFIP regulations paragraph 65.2(b) and as described in the MT-2 Forms Instructions. All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.								
Certifier's Name: Bradley S. Ridnour		License No.: 033	License No.: 033023 Expiration					
Company Name: Vaughn & Melton C	onsulting Engineers	Telephone No.: 606-364-6729 Fax No.: n/a			o.: n/a			
Signature: Bradley S. Kidu	nour, PE	Date:5/15/201	7 E-Mail Address: b	bsridno	our@vaughnmelton.com			
73D412120A31454								

Ensure the forms that are appropriate to your revision request are included in your submittal.							
Form Name and (Number)	Required if	TH. CARO					
Riverine Hydrology and Hydraulics Form (Form 2)	New or revised discharges or water-surface elevations	ROFESSION AL					
☑ Riverine Structures Form (Form 3)	Channel is modified, addition/revision of bridge/culverts, addition/revision of levee/floodwall, addition/revision of c	Jam 033023					
Coastal Analysis Form (Form 4)	New or revised coastal elevations	-Docusigned by MONEER					
Coastal Structures Form (Form 5)	Addition/revision of coastal structure	Bradley S. Ridnow, PE					
Alluvial Fan Flooding Form (Form 6)	Flood control measures on alluvial fans	73D412120A31454 5/15/2017					

{Date}

Mills River Partners 4112 Haywood Road Mills River, NC 28759

Re: Notification of increases in 1% (100-year) annual chance water-surface elevations and/or future flood hazard revisions

The Flood Insurance Rate Map (FIRM) for a community depicts the Special Flood Hazard Area (SFHA), the area which has been determined to be subject to a 1% (100-year) or greater chance of flooding in any given year. The floodway is the portion of the floodplain that includes the channel of a river or other watercourse and the adjacent land area that must be reserved in order to discharge the 1% annual chance (base) flood without cumulatively increasing the water-surface elevation by more than a designated height. The FIRM is used to determine flood insurance rates and to help the community with floodplain management.

The North Carolina Department of Transportation (NCDOT) is applying for a Conditional Letter of Map Revision (CLOMR) from the Federal Emergency Management Agency (DHS-FEMA) to revise FIRM 3700964100J for the Town of Mills River, NC and Unincorporated Henderson County, NC along Mills River. The NCDOT is proposing to replace the existing crossing over Mills River at SR 1353 (Hooper Lane) due to the structural deficiency rating of the existing bridge.

The proposed project will result in increases in the 1% annual chance (base) water-surface elevations for a portion of Mills River.

Once the project has been completed, a Letter of Map Revision (LOMR) request should be submitted that will, in part, revise the following flood hazards along Mills River.

1. The floodway will be revised from river station 3638, approximately 1,108 feet downstream of the crossing over Mills River at SR 1353 (Hooper Lane), to river station 6123, approximately 1,377 feet upstream of the crossing over Mills River at SR 1353 (Hooper Lane), which is a total distance of approximately 2,485 feet, along Mills River.

2. Base Flood Elevations (BFEs) will increase along Mills River.

This letter is to inform you of the proposed project that may affect flood elevations on your property at 4055 Haywood Road. This letter is also to inform you of the potential changes to the effective flood hazard information that would result after the project is completed and a LOMR request is submitted to FEMA.

Maps and a detailed analysis of the proposed flood hazard revisions can be reviewed at the Town Center at 124 Town Center Drive, Mills River NC. If you have any questions or concerns about the proposed project or its effect on your property, you may contact Jeff Wells of Town of Mills River at (828) 890-2901 from Mon to Fri 9:00 AM to 2:00 PM.

Sincerely,

Natalie J. Berry, PE, Project Engineer

Henderson County 100 North King Street Henderson, NC 2879

Alternates Considered

The following methods to mitigate the increase in the base flood elevations (BFEs) and eliminate the requirement for the CLOMR were considered as alternates for this project:

- 1. Do not replace the bridge due to impacts associated with the floodplain.
- Replace the bridge at or as close to its original location as possible, using a detour or staged construction to manage traffic. Replacing the bridge at its original location would eliminate the increases to the flood caused by relocating the bridge downstream, eliminating the need for a CLOMR.
- 3. Modify the bridge geometry. Changes in bridge geometry can change the amount of overtopping and overbank flow, which can result in in lower BFEs eliminating the need for a CLOMR.
- 4. Modify the bridge deck elevations. As with bridge geometry, changes in bridge deck elevations can change the amount of overtopping flow, which can result in in lower BFEs, eliminating the need for a CLOMR.

If the bridge is not replaced, it could be a potential danger to vehicles, farming equipment, and pedestrians that use the bridge since it has been deemed structurally insufficient.

There is high daily usage of local farming equipment accessing crops adjacent to both ends of the bridge. This eliminates the possibility of staged construction and makes the use of detour routes unfavorable. In addition, there is a major underground waterline that serves the city of Asheville, NC which crosses Mills River immediately downstream of the existing bridge. It is critical that this waterline not be disturbed during construction. This makes replacing the bridge at the original location in any fashion undesirable due to concerns about the increased bridge width impacting this water line.

Both the existing and proposed bridge are perched bridges. In all models (effective, corrected, and revised) the low chord of the structure is above the 100-year floodplain. In addition, the floodplain and floodway are extremely wide relative to the bridge structure, with a large percentage of the 100-year flow bypassing the bridge in the overbank regions. Given the hydraulics of perched bridges, combined with the width of the floodplain, changes in the bridge deck geometry and elevations would have little impact on the BFE.

Preliminary hydraulic modeling of the proposed bridge found that impacts would be very minimal and would not impact any structures.

Given the structural insufficiency of the existing bridge, the high costs and difficulties associated with maintaining the original bridge location, the hydraulics of the site, and minimal hydraulic impacts, it was decided that obtaining a CLOMR was the most cost effective option.

HEC-RAS River Stat Plan W.S. Elev W.S. Elev M.S. Elev M.S. Elev M.S. Elev M.S. Elev M.S. Elev Top Wath (ft) Top Wath Top Wath Enc Stat L Enc Stat Enc Stat L (ft) Project Impact (ft) Project Impact (ft) Project Impact 3638 Corrected 2054.5 2055.3 0.8 890 4000 4890 0.0 4553 Corrected 2056.7 2057.7 1.0 1250 4350 5600 0.0 4657 Revised 2056.8 2057.8 1.0 1250 4350 5600 0.0 4667 Revised 2056.8 2057.7 0.9 1085 3965 5050 n/a 4679 Duplicate 2057.4 2057.7 0.4 1199 4280 5670 n/a 4720 Duplicate 2057.5 2058.0 0.6 1159 3861 5020 0.2 4745 BR D Revised 2057.5 2058.0 1.1 159	Table 6. Project Impact SF-440147									
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4720 Duplicate 4720 2057.2 2058.2 2058.2 100 1159 3861 5020 4350 4720 Revised 2057.7 2058.7 1.0 1159 3861 5020 5670 4746 BR D Duplicate Corrected 2057.3 2058.3 1.0 1159 3861 5020 n/a 4746 BR U Duplicate Corrected 2057.3 2058.3 1.0 1195 3805 5000 n/a 4746 BR U Duplicate Corrected 2057.3 2058.3 1.0 1195 3805 5000 n/a 4770 Duplicate A770 2057.8 2058.4 0.0 1195 3805 5600 0.1 4770 Revised 2057.9 2058.8 0.0 1250 4350 5600 0.1 4839 Duplicate A839 Revised 2058.4 2058.9 0.5 1250 4350 5600 0.0 6123 Corrected 2060.4	4683	BR U	Revised	2057.4	2057.7	0.4	1390	4280	5670	n/a
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4746 BR D Duplicate Corrected 2057.3 2058.3 1.0 1159 3861 5020 n/a 4746 BR U Duplicate 2057.3 2058.3 1.0 1159 3861 5020 n/a 4746 BR U Duplicate 2057.3 2058.3 1.0 1195 3805 5000 n/a 4776 BR U Corrected 2057.3 2058.7 0.0 11250 4350 5600 0.1 4770 Corrected 2057.8 2058.7 0.0 1250 4350 5600 0.0 4839 Duplicate 2057.8 2058.4 2058.9 0.5 1250 4350 5600 0.0 6123 Duplicate 2057.4 2058.4 2058.9 0.5 1250 4350 5600 0.0 6123 Duplicate 2060.4 2061.4 1.0 1120 1700 2820 0.0 7444 Duplicate 2062.8 2063.2		4720	Revised	2057.7	2058.7	1.0	1390	4280	5670	
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4770 Duplicate 2057.3 2058.2 1.0 1195 3805 5000 0.1 4770 Revised 2057.8 2058.8 0.9 1250 4350 5600 0.1 4839 Duplicate 2057.8 2058.8 0.9 1250 4350 5600 0.0 4839 Corrected 2058.4 2058.9 0.5 1250 4350 5600 0.0 6123 Duplicate 2060.1 2061.1 1.0 1120 1700 2820 0.0 6123 Corrected 2060.4 2061.4 1.0 1120 1700 2820 0.0 6123 Revised 2060.4 2061.4 1.0 1120 1700 2820 0.0 7444 Duplicate 2062.8 2063.2 0.4 889 1900 2789 0.0 7444 Revised 2065.5 2066.4 0.9 1110 3400 4510 0.0 8606	4746	BR U	Corrected	2057.5	2058.6	1.1	1250	4350	5600	
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11358Duplicate2070.82071.10.31106380049060.011358Corrected2070.82071.10.3110638004906		10300	Revised	2068.4	2069.3	0.9	1150	3400	4550	
11358 Corrected 2070.8 2071.1 0.3 1106 3800 4906 0.0		11250	Duplicato	2070.0	2074 4	0.2	1100	2000	4006	0.0
		11350	Corrected	2070.8 2070 R	2071.1	0.3	1100	3800	4900 1906	0.0
11358 Revised 2070.8 2071.1 0.3 1106 3800 4906		11358	Revised	2070.8	2071.1	0.3	1106	3800	4906	



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