

CESAW-ECP-PE 17 April 2015

PUBLIC NOTICE MODIFIED DESIGN

DRAFT INTEGRATED FEASIBILITY REPORT AND ENVIRONMENTAL ASSESSMENT PRINCEVILLE, NORTH CAROLINA FLOOD RISK MANAGEMENT

Comment Deadline: Within 30 days of the date of this Notice.

proposed a plan to reduce the flooding risk to the extent practicable for the Town of Princeville (Corps) for public review. The Princeville, North Carolina draft Integrated Feasibility Report and EA levee in the Town of Princeville, North Carolina was released by the U.S. Army Corps of Engineers Environmental Assessment (Report/EA) that evaluated the environmental impacts of construction of a WHOM IT MAY CONCERN: In March 2014, a draft Integrated Feasibility Report and

draft report did not discuss the ~5 acres of wetland impacts associated with this relocation. All of the impacted wetlands are situated on property belonging to the State of NC, the Non-Federal Sponsor for side of the road will reduce life safety risks by protecting the evacuation route. The draft feasibility evacuation route from Dare County, NC to Interstate 95, placement of the roadside levee on the River potential existed that the levee could be relocated from the east to the west side of the road; however, the report/EA stated that NCDOT had expressed this concern about levee placement, and indicated that the (IEPR) of the proposed plan, and in comments received from the NC Division of Transportation to wetlands that existed on west side of US Highway 64. During Independent External Peer Review of US Highway 64. The original location of the levee on the east side of US Highway 64 avoided impacts relocation of the roadside levee from the east side (Town) of US Highway 64 to the west side (Tar River) proposed. The most significant modification is in Segment 2 of the proposed project (Figure 1) and is the this project. would not protect this section of road from flood inundation. As US Highway 64 is a primary hurricane (NCDOT), it was pointed out that placement of the roadside levee on the east side of the US Highway 64 Based on comments received on the proposed project plan, modifications to the design of the project are

plan, as well as the proposed design modifications are described below and are summarized in Table 1. comments received during public review of the March 2014 draft report and IEPR review. The proposed Several other minor changes to the original design are also proposed. These changes were made based on

the project included the addition of flap gates at ungated culverts at eight (8) locations, addressing a low spot in the existing embankment height of US Highway 64 by adding additional fill material, addressing specific proposed project features, consult the draft report and EA Highway 258, NC-111, and Shiloh Farms Road. The plan also included interior drainage features and non-structural measures to maximize flood risk reduction. Non-Structural features include flood warning the existing NC Highway 33 underpass, and construction of levee segments in specific portions of US Previous Design: As described in the draft Report/Environmental Assessment (EA) dated March 2014, and evacuation plans, flood risk management education, and communication plans. For details on

(River) side of U. S. Highway 64. Flood walls will no longer be required. An overall view of the plan is levee along the eastern (Town) side of U. S. Highway 64 with a "shoulder" levee (only), on the western Proposed Revised Design: The revised design replaces the previous design feature of flood walls and shown in Figure 1.

Segment 1: The original design remains unchanged. (Figure 2)

elevation. The "shoulder" levee would be 3,450 linear feet long, with a fill volume of 61,500 cubic yards, this realigned levee (Figure 3). drainage pipes in the realigned levee. levee. Mitigation for these wetland impacts is described in detail below. Segment 2 begins at the end of a portion of which would occupy approximately 4.54 acres of wetlands on the River side of the existing existing Highway 64 western embankment, to prevent overtopping up to the design event water surface the eastern side of Highway 64 and includes the installation of a "shoulder" levee along a low spot on the **Segment 2:** The revised design omits the previously proposed construction of a 300-foot flood wall on Segment 1 and runs north to the existing northern levee reach near the westbound bridge abutment of Highway 64 over the Tar River. The original design included the installation of flap gates on four (4) The revised design proposes flap gates at six (6) culverts within

no longer required (Figure 4). Segment 3: The only design change consists of removing the originally proposed stability berm, which is

Strickland Drive, required the adjustment of access and to also serve as a second avenue for egress to connect the eastern portion of Princeville to a specifications hurricane evacuation route. Segment 4: Modifications in this segment may potentially require elevating up to 27 driveways and The revised design would extend Harris Hill Lane by 800 feet, to provide construction to meet the new road elevations. All such work will comply will Other Segment 4 project features remain unchanged. The original design about 15 residential and 3 commercial driveways and one subdivision meet current design standards with NCDOT's (Figure

	Previous Design	Proposed Modifications
Segment 1	Raising of the US HWY 64/ US HWY 33 interchange to 43 ft to prevent	No change
	floodflows from entering the Town	
	Installation of flapgates at 1 triple box culvert and 1 pipe culvert	No change
Segment 2	Abandonment of the existing southern levee south of HWY 64	No change
	Realignment and extension of the southern portion of the US HWY 64	Installation of a 3,450 linear ft shoulder levee along the western
	levee for 950 ft	(River) side of the existing US HWY 64
	Construction of a 300 linear ft flood wall and 2,900 linear ft of new	No flood wall required
	earthen levee along the eastern shoulder of US HWY 64	
	Installation of flapgates on 4 drainage pipes in the realigned levee	Installation of flapgates on 6 culverts
Segment 3	Addition of ~400 ft long, 16 ft wide 18 in deep stability berm at the	Stability berm no longer required
	inside toe of the existing levee	
Segment 4	Raising of the intersection of US HWY 258 and its connection by a new	Extention of Harris Hill Ln by 800 ft to provide construction access
	levee segment to the existing northern end of the existing levee	and egress for an adjacent neighborhood
	project	
	Installation of 3,400 linear ft of new levee across existing	No Change
	farmland/pasture	
	Elevating portion of NC HWY 111	No Change
	Elevating intersection NC HWY 111 and Shiloh Farm Rd	No Change
	Elevating 1,375 ft of Shiloh Farm Rd	No Change
	Elevating 15 residential and 3 commercial driveways and a sub-	Elevating 27 driveways and Strickland Drive
	division entrance	

Table 1. Previous Design and Proposed Design Modifications

adjacent to the Tar River. These are the only new impacts that would result from implementation of the alignment along the west side of Highway 64 would impact approximately 4.54 acres of riparian wetlands Impact Analysis for the Proposed Revised Design: The proposed project modifications will result in additional impacts to riparian wetlands adjacent to the Tar River (Figures 6 and 7). The new levee adequately addressed all impacts associated with the project. access or staging areas. With the exception of the new wetland impacts in Segment 2, the 2014 Report/EA proposed project modifications. Also, there would be no new impacts associated with the construction

as mitigation in the Tar River watershed. mitigation credit for impacts to the 2.04 acres of high quality habitat/high functional value wetland. acres of low quality habitat/ low functional value wetlands and purchase of 4.25 acres of in-lieu fee includes purchase of 2.50 acres of in-lieu fee mitigation credit from the NC DMS for impacts to the 2.50 functioning wetland area and 2.04 acres of high functioning wetland area. The proposed mitigation function assessment that ensures adequate mitigation for impacts to approximately 2.50 acres of low Resource agencies support this approach and NCDMS confirmed they have lands available for purchase **Proposed Mitigation for Wetland Impacts:** The proposed mitigation will be based on a wetland

comments in determining whether a Finding of No Significant Impact (FONSI) or Environmental Impact Statement (EIS) will be completed. Written comments pertinent to the proposed work should be submitted to: Ms. Teresa Bullard, USACE, Wilmington District, 69 Darlington Avenue, Wilmington, mail within 30 days of the date of this notice. The USACE, Wilmington District will consider these persons of the proposed design changes. Comments must be submitted in writing via regular mail or e-**Commenting Information:** Carolina 28403-1343. This Public Notice is being distributed to notify all known interested Email address: Teresa.r.bullard@usace.army.mil.

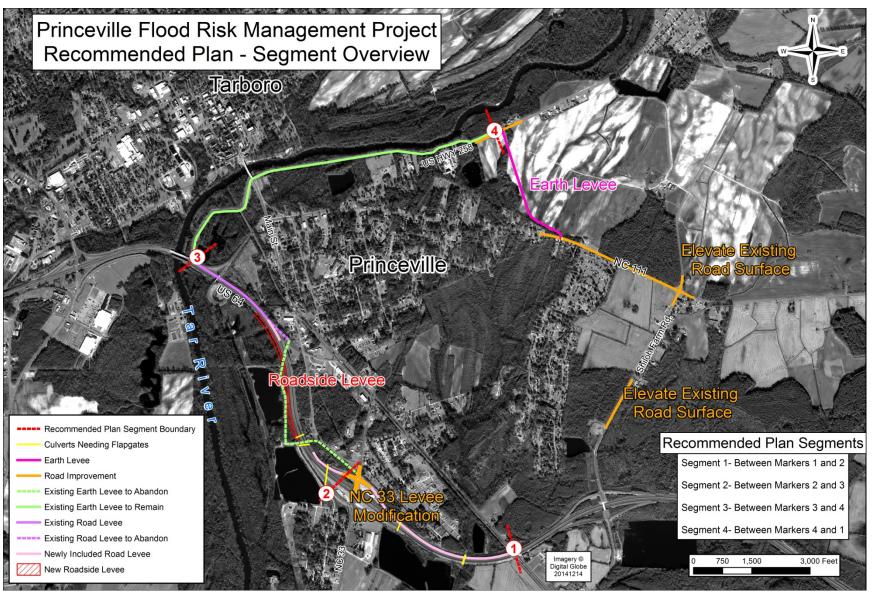


Figure 1

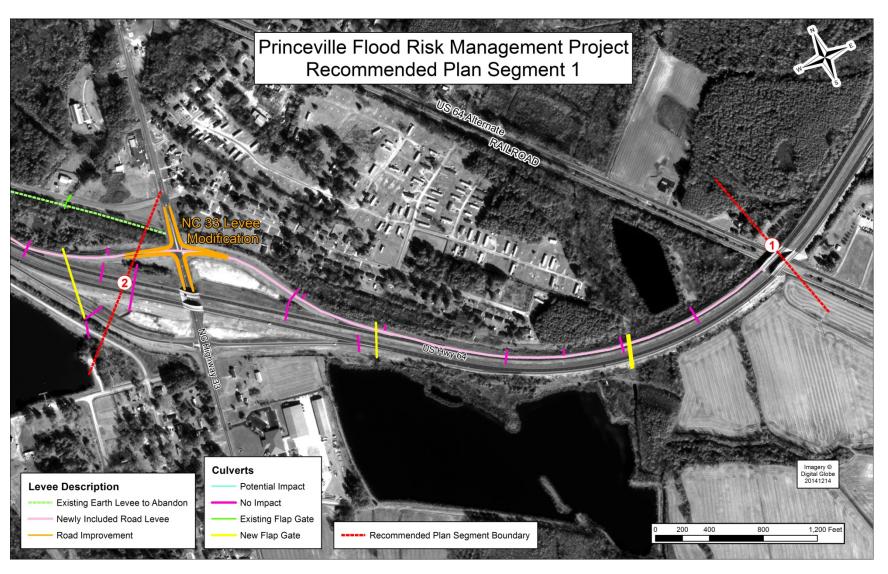


Figure 2

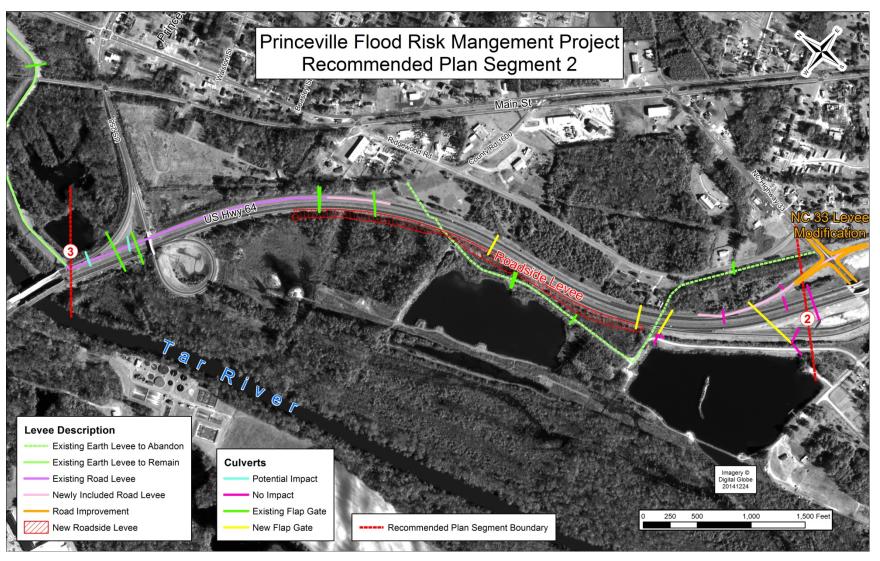


Figure 3

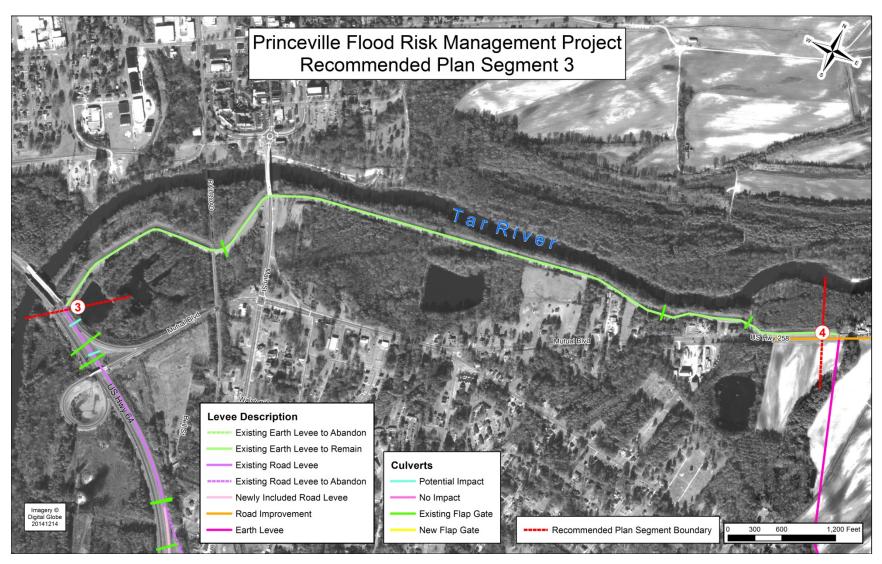


Figure 4

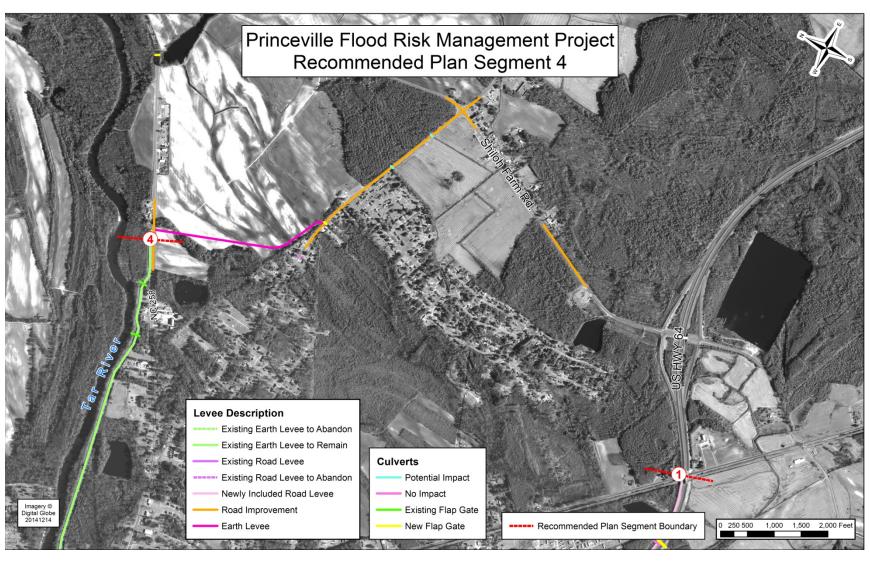


Figure 5

