



TO OFFICE: District 5

DATE: June 22, 2020

ATTENTION: Jim Armstrong

COUNTY: Marion

FROM: Jim Phillips

PROJ. NO.: NHSN-163-3(58)--2R-63

PIN: 20-63-163-010

FOLDER: [Final Concept Marion, Ia 163 Median MP 38.7.docx](#)

OFFICE: District 5

SUBJECT: FY 2022 NR Concept Statement - **FINAL**

PROJECT DATA:

ROUTE AND LOCATION: IA 163 at the intersection with 198th Ave.

LENGTH: 0.1 Miles (MP 38.65 to MP 38.75)

PLANNING CLASSIFICATION: Commercial and Industrial

MAINTENANCE SERVICE LEVEL: B

NHS ROUTE: YES

TRAFFIC: 2018: 11,100 ADT with 15% Trucks

PURPOSE AND NEED:

There is an existing granular surfaced median crossing at the intersection of IA 163 and 198th Ave in Marion County, just north of Pella. Maintenance staff regularly makes surface repairs to this granular median crossing due to increased traffic using this crossing to access 198th Ave.

A church off 198th Ave was built around 2004 and prior to that when the 4-lane was built in 1996, the dead-end road only served about 4 residents. It is assumed it was decided to not pave this median crossing at that time due to low volumes at the intersection. There are roughly 150 parking spaces at the church, and this would equate to about 300 additional trips at least on Sundays if at full capacity.





RECOMMENDATIONS:

This proposed project would include a paved median with 150' EB left turn lane to bring it up to our normal design standards. Design Manual 3E-2 states that median crossings should be paved and include left turn lanes at all public side roads.

As-built plans shows an existing median drain culvert under the EB lane about 100' east of the intersection. The final design should verify that this does not need to be extended. UAC the existing longitudinal subdrains.

No clearing and grubbing required. No known environmental or cultural impacts.

No ROW will be required.



CRASH ANALYSIS:

5-year crash history shows one PDO crash at this intersection.

COST ESTIMATE:

16" Class 13 Excavation	12,000
6" Modified Subbase	15,000
10" PCC Pavement	72,800
Erosion Control	5,000
Traffic Control	10,000
Misc. & Contingency	<u>32,850</u>
	\$147,650

FUNDS PROGRAMMED:

Recommended for programming (NR funds) in FY 2022 at an estimated cost of \$150,000.

PROJECT IMPACTS:

Designed by: Design

Design Impact	Assistance Requested (Y/N)	Remarks
ADA:	N	
Agreements/Notification Letters:	N	
Bridges and Structures:	N	
Consultant:	N	
Contracts:	N	
Design/Methods:	Y	Complete the final plans
Location and Environment:	N	
Maintenance: (Oskaloosa)	N	
Project Management:	N	
Railroad:	N	
RCE: (Chariton)	N	
Right of Way:	N	
Soils:	N	
Survey/Photogrammetry:	Y	Field survey
Systems Planning:	Y	Completing intersection count summer of 2020
Traffic and Safety:	N	
Utilities:	N	
Other:		

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