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Public Works

City Transit
263-8152

MEMORANDUM

Equipment Maintenance
Roadway Maintenance
Collection & Drainage
Building & Grounds
Engineering

To: Randy Hill, Public Works Director
FROM: Jim Edgmond, City Engineer
DATE: June 26, 2015
RE: Musser to Wiggins Road Trail, survey proposal for new route

INTRODUCTION:

The ROW for this trail presented multiple problems. One of the last problems in the trail ROW was getting from 33rd Street to 41st Street. A land owner in this area recently has agreed to a different route that will make the trail slightly shorter and allow the trail to be a dedicated trail down to the Deep Lakes Park.

BACKGROUND:

This land owner agreement allows the trail to be on the common property line between two properties. However, to make sure that this condition of the agreement is met the owner requested the property line be surveyed. This proposal allows for the survey and remonumentation, if needed, of the property line. This property line (s) has also become over grown with trees and brush and a significant effort may be needed to clear brush and trees to do this survey. The proposal is a not to exceed amount of \$20,000.00. It also includes fee to convert this survey into the easement acquisition plat and to provide Cadd base drawings for the trail design documents.

RECOMMENDATION/RATIONALE:

Recommend city council approve this proposal for survey and easement plat for the Musser to Wiggins Road trail alignment.

BACKUP INFORMATION:

1. Concept Trail alignment
2. M&W Proposal

Lutz Engineering & Consulting PLC

111 Middle Road
Muscatine, Iowa 52761

Jim Edgmond
City Engineer
Muscatine Public Works
1459 Washington Street
Muscatine, Iowa 52761

PROPOSAL

December 10, 2015

RE: Engineering and Consulting Services
Musser Park to Wiggen's Rd Trail

Dear Jim,

I appreciate the opportunity to submit this proposal to the City of Muscatine. The Musser Park to Wiggen's Road Trail project alignment revisions have been completed and new preliminary plan and profile sheets have been submitted to the City. To further the development process toward bidding through IDOT, other steps will need completed. Lutz Engineering proposes to work together with City Staff and project coordinators to complete the necessary steps in the most efficient manner.

Lutz Engineering proposes to provide the following services for the project.

Status Plans

1. Meet with Staff to confirm alignment and adjustments.
2. Confirm status plan set contents.
3. Update key plan sheets according to alignment revisions.
4. Restructure bid items for asphalt on certain trail lengths and concrete on others but with no alternate bidding.
5. Add and delete tables as necessary for general content and delete outdated information.
6. Submit plans to City for purpose of coordinating with IDOT.
7. Address City review comments and resubmit as necessary.

Check Plans

1. Continue plan development to show easements acquired.
2. Identify removals on plan sheets and add to tables.
3. Add detail for all driveways, ramps, culverts, fences, etc.
4. Develop cross sections for Deep Lakes Park.
5. Add typical cross sections for Park area.
6. Adjust profile and template to achieve earthwork goals.
7. Add earthwork tables.
8. Add Stewart Road Ditch sections if necessary.
9. Prepare alignment tables where necessary.
10. Assemble all quantities to tables.
11. Add S sheets for new alignment lengths.

12. Modify traffic control sheets and notes.
13. Adjust bid items and add estimate reference information.
14. Upload check plans to IDOT.
15. Enter and revise all bid items through IDOT system.
16. Prepare construction cost estimate and submit.

Constructability Review

1. Meet with Staff to review bid items, estimate reference and tables.
2. Review traffic control, and plan notes.
3. Identify any ambiguous work and mark to clarify.

Final Plans

1. Refine and adjust plans to incorporate IDOT comments.
2. Incorporate revisions from constructability review.
3. Add any other detail or bid information required.
4. Revise cost estimate.
5. Upload plan set to IDOT.
6. Revise bid items through IDOT system.

All investigations required by IDOT for NEPA approval by others. Property and easement negotiations are by others. Railroad coordination and access negotiation are by others. Easement plats and same on cad files are provided by others.

Lutz Engineering proposes to perform the above Musser Trail services for lump sum fees according to the outline and schedule below with letting date on June 21, 2016. Plan preparation will be expedited with a goal to achieve May letting, however, NEPA approval may dictate a June letting.

<u>Item</u>	<u>Fee</u>	<u>Project Submittal Date</u>	<u>IDOT June letting Submittal Deadlines</u>
Status Plans	\$3,000	1/05/16	
Check Plans	\$16,000	2/15/16	3/01/16
Constructability review	\$390.00	2/17/16	
Final Plans & PDC	\$5,000	3/15/16	3/22/16

Work outside the above scope can be performed on an hourly rate basis if necessary.

Sincerely,



Jon Lutz PE
 Lutz Engineering & Consulting
 (563) 506-4274
www.LutzEC.com
Jon@LutzEC.com

Accepted _____

Title _____

Date _____

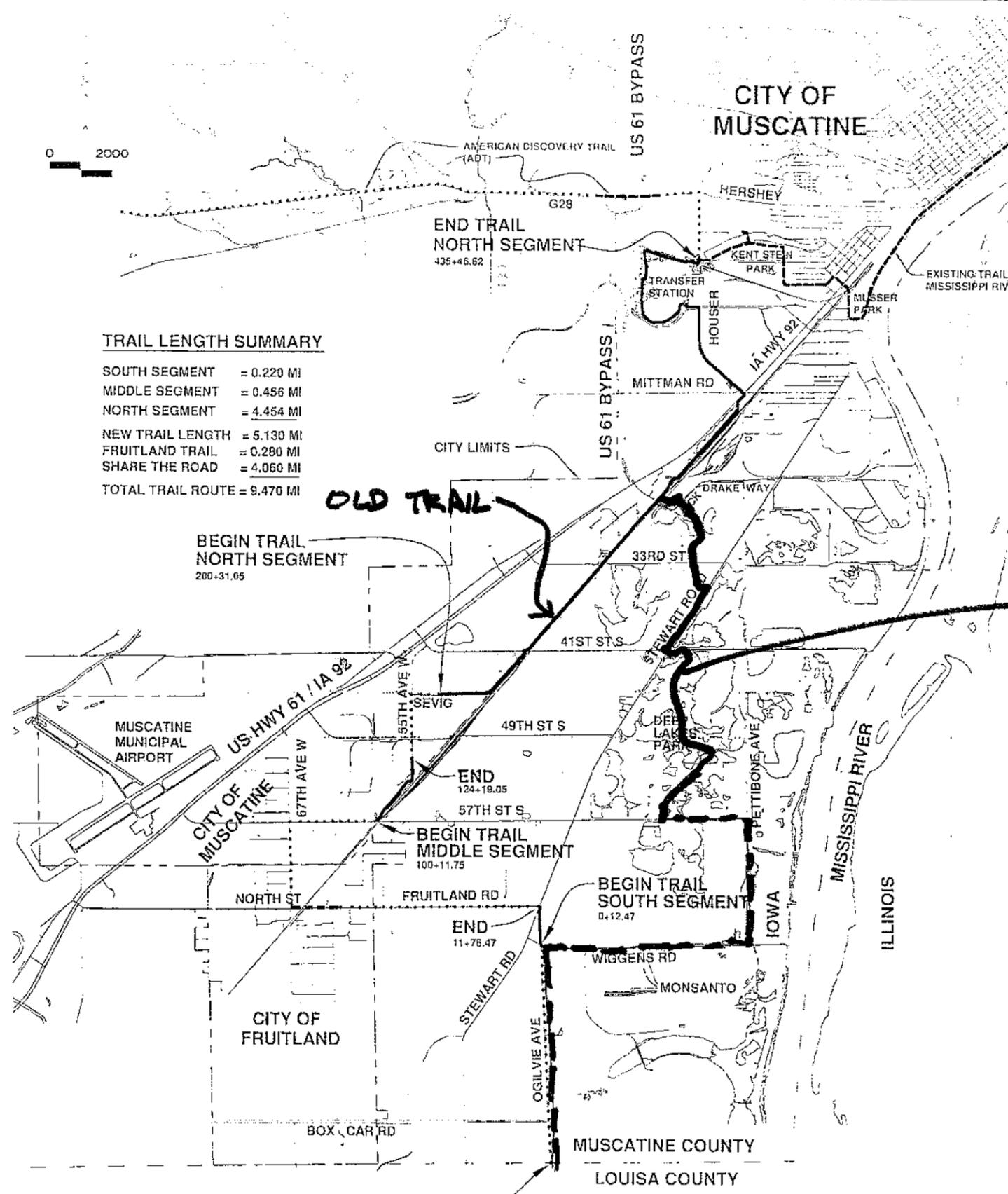
PROJECT DESCRIPTION

00-12
10-18-05

THIS PROJECT INVOLVES CONSTRUCTION OF A 10' WIDE ASPHALT OR CONCRETE TRAIL FROM HOUSER STREET AT KENT STEIN PARK TO THE INTERSECTION OF WIGGENS ROAD AND OGILVIE AVE IN MUSCATINE COUNTY, IOWA. THE TRAIL IS BROKEN INTO A 0.220 MILE SOUTH SEGMENT, A 0.456 MILE MIDDLE SEGMENT AND A 4.454 MILE NORTH SEGMENT. TRAIL CONSTRUCTION WILL INCLUDE CLEARING & GRUBBING, MINOR GRADING, ROCK SUBBASE AND HMA OR PCC PAVEMENT. CULVERT INSTALLATION, DITCHES AND SEEDING IS INCLUDED ALONG THE TRAIL.

TRAIL LENGTH SUMMARY

SOUTH SEGMENT = 0.220 MI
 MIDDLE SEGMENT = 0.456 MI
 NORTH SEGMENT = 4.454 MI
 NEW TRAIL LENGTH = 5.130 MI
 FRUITLAND TRAIL = 0.280 MI
 SHARE THE ROAD = 4.060 MI
 TOTAL TRAIL ROUTE = 9.470 MI



OLD TRAIL

NEW TRAIL

TRAIL COMPLETED TO LOUISA COUNTY
 EXTENSION OF MRT THROUGH MUSCATINE COUNTY

VICINITY MAP

LEGEND

- EXISTING TRAIL
- NEW TRAIL
- SHARE THE ROAD