

MEMORANDUM

TO: Programs, Projects, and Operations Subcommittee
FROM: Eric Williams, Natural Resources Planner
SUBJECT: West Douglas County Trail
PS&E Plans Review and Cost Estimate
DATE: May 7, 2020

Nebraska Department of Transportation (NDOT) has received the Plans, Specifications, and Estimates (PS&E) plans for the Western Douglas County Trail (WDCT) from the design consultant, Ehrhart Griffin & Associates (EGA). NDOT has asked that the NRD approve both the plan set and the cost estimate of with a total project cost of \$7,490,596.55.

In October 2018, the NRD approved Program Agreement Supplement #1 with NDOT which detailed a total project cost estimate of \$5,142,802.25. Following the approval of that agreement, the Right-of-Way (ROW) plan set was completed, and NRD staff worked with NDOT through the ROW process. During ROW negotiations with property owners, comments were received which triggered changes including a re-design of the span length of the bridge, and the need to include a fence below the bridge along the edge of the property line. These comments and the redesign which was required caused delays to the project schedule, and a significant increase in overall project cost. A summary breakdown of the cost increase was provided by NDOT along with the updated overall project cost estimate, see attached.

The Program Agreement originally signed at the start of this project indicate that federal funds would cover 80% of the cost up to a maximum. The NRD would be responsible for 20% of the cost matched to the federal funding, and any additional costs on top of the federal funding maximum. As listed in the Program Agreement with NDOT, the DPU (federal) funds are capped at \$5,039,440.00 for the project.

NDOT has provided an updated estimate for the construction expense, including construction engineering, with a total \$5,952,321.40. Included with the expenditures to date for design of the project and ROW acquisition, and subtracting the federal funds to be expended for the project, the remaining local share is estimated to be \$1,956,192.40.

Following the PS&E review, the project is expected to be bid this summer with construction to begin toward the end of 2020.

- **It is recommended that the Subcommittee recommend to the Board that the attached resolution be adopted authorizing the General Manager to signify the approval of the Plans, Specifications, and Estimates (PS&E) package, including the updated cost estimate, for the Western Douglas County Trail Project.**



- Trail Alignment
- City Boundary



Figure 2
Location Map
Western Douglas County Trail
Douglas County, Nebraska

RESOLUTION
APPROVAL OF PRELIMINARY PLANS, SPECIFICATIONS, AND ESTIMATES
(PS&E)

Papio-Missouri River NRD

Resolution No. _____

Whereas: Papio-Missouri River NRD (LPA) and State entered into an LPA Program Agreement for State to assist LPA in the development and construction of an LPA Federal-aid transportation project;

Whereas: The State or the design consultant has developed the project plans to the point where they are ready to submit to State’s PS & E Section for final edits for a bid letting;

Whereas: The LPA Program Agreement requires the LPA to review the preliminary PS & E package and either request modification or approve them as acceptable at this stage;

Whereas: LPA wishes to approve the preliminary PS & E package as prepared.

Be It Resolved by the Board of Directors of the Papio-Missouri River NRD that:

The General Manager, John Winkler, is hereby authorized to sign the bottom of this resolution and submit it to the State signifying the LPA’s approval of the preliminary PS & E package.

NDOT Project Number: DPU-28(87)

NDOT Control Number: 22227

NDOT Project Description: Western Douglas County Trail

Adopted this _____ day of _____, _____ at _____ Nebraska.
(Month) (Year)

The Board of Directors of the Papio-Missouri River NRD, Nebraska

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Board/Council Member _____
Moved the adoption of said resolution
Member _____ Seconded the Motion
Roll Call: _____ Yes _____ No _____ Abstained _____ Absent
Resolution adopted, signed and billed as adopted

PAPIO-MISSOURI RIVER NRD
NEBRASKA

General Manager

Attest:

Signature Natural Resource Planner

From: Soula, Jeffrey [mailto:jeffrey.soula@nebraska.gov]
Sent: Monday, April 20, 2020 14:10 PM
To: Williams, Eric <ewilliams@pacionrd.org>; Jaber-Taylor, Nicole <nicole.taylor@nebraska.gov>
Cc: Gibson, Jodi <Jodi.Gibson@nebraska.gov>
Subject: RE: CN 22227; DPU-28(87); Western Douglas Co Trail - STATUS 45 ESTIMATE

Eric,

We wanted to let you know that the construction costs are estimated to exceed the earmark money that is remaining on the project.

Construction cost: \$5,173,757.74
Construction Engineering: 778,563.66

Total estimated construction expenses: \$5,952,321.40. Federal funds will pick up 80%, up to the remainder of the earmark, which is \$3,996,129. Local Share is currently estimate to be \$1,956,192.40. Should the bids come in higher, the extra cost will all be locally funded because there won't be any additional federal funds. If this is going to affect the plan to Let the project this summer/fall, please let us know.

Thanks
Jeff Soula, PE
NDOT Local Projects
402-479-3562

From: Jaber-Taylor, Nicole <nicole.taylor@nebraska.gov>
Sent: Monday, April 20, 2020 10:58 AM
To: Williams, Eric <ewilliams@pacionrd.org>
Cc: Soula, Jeffrey <jeffrey.soula@nebraska.gov>; Gibson, Jodi <Jodi.Gibson@nebraska.gov>
Subject: FW: CN 22227; DPU-28(87); Western Douglas Co Trail - STATUS 45 ESTIMATE

Eric – attached is the recent estimate that our PS&E division has put together. There's a balance of \$3,996,129 left currently on the earmark funds.

From: Divis, Wayne <wayne.divis@nebraska.gov>
Sent: Friday, April 17, 2020 3:12 PM
To: Jaber-Taylor, Nicole <nicole.taylor@nebraska.gov>; Soula, Jeffrey <jeffrey.soula@nebraska.gov>; NDOT Super Team D2 <NDOT.SuperTeamD2@nebraska.gov>; NDOT D2-DE-DCE-ST <NDOT.D2-DE-DCE-ST@nebraska.gov>
Cc: Hosler, Cindy <Cindy.Hosler@nebraska.gov>
Subject: CN 22227; DPU-28(87); Western Douglas Co Trail - STATUS 45 ESTIMATE

Please see the attached STATUS 45 ESTIMATE for CN 22227 – Western Douglas Co Trail.

This estimate reflects an increase of \$1,600,000 above the status 30 estimate dated 10/8/2018 due to the following. Consultant prices were used for this estimate.

Group 1 – Grading, increased by \$187,000 due to increased quantity and price of Earthwork Measured by Embankment.
Group 6 - Bridge, increased by \$1,080,000 due to increased Pedestrian Bridge cost and the addition of Class 47BD-4000 Concrete and HP 10 Inch X 42 LB Steel Piling.
Group 7B – Fencing, increased by \$100,000 due to increased quantity of 8 Foot Chain-link Fence.

Wayne Divis
Highway Contracts Project Coordinator

Nebraska Department of Transportation

WESTERN DOUGLAS COUNTY TRAIL
DOUGLAS COUNTY, NEBRASKA
DPU-28(87), C.N. 22227

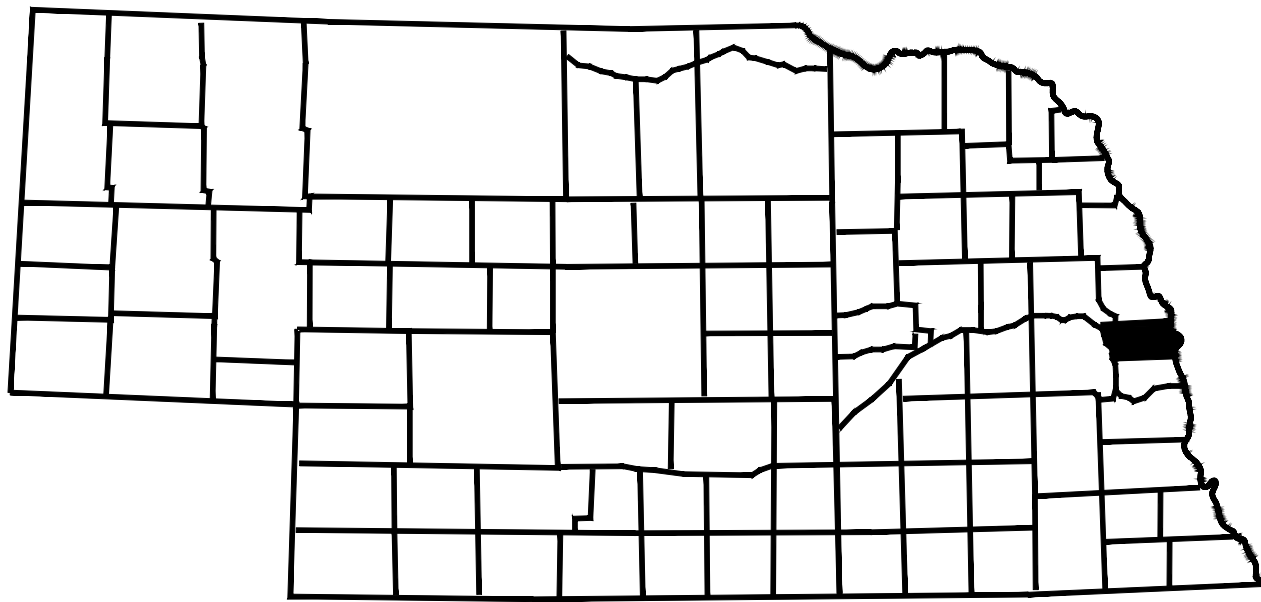
INDEX OF SHEETS

| SHEET NO. | SHEET TITLE |
|------------|--|
| A1 | COVER SHEET |
| B1 TO B3 | TYPICAL SECTIONS |
| C1 | SUMMARY OF QUANTITIES |
| D1 | BORING LOCATION MAP |
| D2 TO D3 | SOILS AND GEOTECHNICAL INFORMATION |
| E1 TO E3 | WETLAND AREAS |
| E4 TO E5 | AERIAL PHOTOS - INDEX OF SHEETS |
| F1 TO F5 | HORIZONTAL ALIGNMENT LINE AND CURVE DATA |
| G1 TO G2 | MISCELLANEOUS DETAILS |
| G3 | GENERAL NOTES |
| G4 | DETOUR ROUTE MAP |
| J1 TO J5 | REMOVAL PLANS |
| J6 TO J11 | STORMWATER POLLUTION PREVENTION PLAN |
| J12 TO J19 | STORM SEWER PLAN AND PROFILES |
| L1 TO L10 | PLAN AND PROFILE SHEETS |
| M1 TO M2 | TRAIL SIGNAGE DETAILS |
| R1 TO R7 | WESTERN DOUGLAS COUNTY TRAIL PEDESTRIAN BRIDGE AND UNDERPASS |
| W1 TO W6 | RIGHT OF WAY PLANS |
| X1 TO X20 | CROSS SECTIONS |

NDOT STANDARD PLANS

| | |
|---------|---|
| 301-R12 | PAVEMENT DETAILS |
| 303-R3 | CURB RAMPS |
| 410-R4 | FLARED END SECTIONS FOR CULVERT PIPES |
| 411-R2 | BEDDING AND BACKFILL REQUIREMENTS FOR CONCRETE PIPE |
| 413-R3 | BAR GRATE FOR FLARED END SECTION |
| 425-R5 | COLLARS AND ELBOWS FOR CONCRETE PIPE |
| 428-R4 | CONCRETE PLUGS AND FIELD TAP DETAILS |
| 435-R2 | MAHOLE |
| 501-R7 | EROSION CONTROL |
| 502-R2 | SILT FENCE DETAILS |
| 710-R5 | FENCE DETAILS |
| 920-R7 | TRAFFIC CONTROL, CONSTRUCTION AND MAINTENANCE |
| 921-R8 | TRAFFIC CONTROL, CONSTRUCTION AND MAINTENANCE |

WORK ON THIS PROJECT IS AUTHORIZED PURSUANT TO THE CONDITIONS STIPULATED IN THE ARMY CORPS OF ENGINEERS GENERAL/NATIONWIDE /INDIVIDUAL PERMIT.



VICINITY MAP
SECTION 36, T16N, R09E
SECTION 31, T16N, R10E
JUNE 2018
EGA PROJECT NO. 041422E



TOTAL NET LENGTH OF TRAIL:
8879 FEET
APPROXIMATELY 1.68 MILES

PLANNER

CARY THOMSEN
RDG
900 FARNAM ON THE MALL
SUITE 100
OMAHA, NE 68102
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CIVIL ENGINEER

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3552 FARNAM STREET
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330 N 117TH STREET
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jficenec@eacg.com

| VALLEY NEBRASKA PEDESTRIAN CROSSING STUDY TRAFFIC COUNT - CENTER STREET (270th STREET) AT TRAIL CROSSING | |
|--|-----|
| AM PEAK HOUR TOTAL | 146 |
| PM PEAK HOUR TOTAL | 147 |

BENCHMARKS

DOUGLAS COUNTY CONTROL POINT DCCP05 - ELEVATION 1134.377
NE SPCS NORTHING: 556544.026
NE SPCS EASTING: 2645287.541
MONUMENT AND CAP ON WEST SIDE OF N 270th STREET AND 1235 FEET SOUTH OF THE CENTERLINE OF E. MEIGS ROAD.

THE WORK ON THIS PROJECT CONSISTS OF GROUPS

1-GRADING, 3-CONCRETE PAVEMENT, 4-CULVERTS, 5-EROSION
6-BRIDGES, 7B-FENCING, 8C-SIGNING, 9-TRAFFIC AND
LIGHTING, AND 10-GENERAL

GROUPS 1, 3, 4, 5, 6, 7B, 8C, 9, & 10 ARE INCLUDED
IN THE LETTING OF _____.

THE 2017 NEBRASKA STANDARD SPECIFICATIONS FOR HIGHWAY
CONSTRUCTION, THE SUPPLEMENTAL SPECIFICATIONS TO THE
STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE
SPECIAL PROVISIONS APPLY TO THIS PROJECT.

I, TERRY MORRISON, AM THE
COORDINATING PROFESSIONAL
FOR THE WESTERN DOUGLAS
COUNTY TRAIL PROJECT

