TO OFFICE: District 5, District Engineer
ATTENTION: Jim Armstrong
FROM: Jim Phillips

DATE: Nov. 13, 2018
REF. NO.: 500
County: Lee
Project: HSIPX-002-9(39)- -3L-56
NHSX-002-9(38)- $3 \mathrm{H}-56$
PIN 19-56-002-010

OFFICE: District 5 Design
SUBJECT: FY'20 - HSIPX and 3R Project Concept - FINAL
DATE OF REVIEW: May 22 2018; PARTICIPANTS: District - Jim Phillips

## PROJECT DATA

ROUTE: NHS, IA 2, 2 lanes, Lee Co., beginning at US 218 (MP 248.77), then east to US 61 (MP 257.57). Length 8.80 miles

PLANNING CLASSIFICATION: 3;
MAINTENANCE SERVICE LEVEL: C;
TRAFFIC: Est. No. 3346 dated August 16, 2018
2020 --- 3,500 AADT with 10\% trucks;
2040 --- 4,100 AADT with 11\% trucks.

## PAVEMENT HISTORY:

The data below is from Deighton's Total Infrastructure Management System (dTIMS) Feb 2018

| MP to MP | Dir. | Type | PCI-2 | IRI | RUT |  | FRICT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FAULT |  |  |  |  |  |  |  |
| $248.77-254.18$ | B | PCC | $56^{*}$ | 174 | - | 51 | 0.09 |
| $254.18-257.57$ | B | PCC | $53^{*}$ | 194 | 0.13 | 51 | .09 |

*per June 5, 2018 Quick Look Trend for 2017.
MP 248.77 - MP 254.18 (31' b-b Urban and $24^{\prime} \mathrm{ft}$. Rural w/ 8" PCC)
ORIGINAL PAVEMENT: 31 'b-b and 24 ft . wide, 8 inch PCC; 112 ft . wide climbing lane,
10 ft wide stabilized earth shoulder Proj F-2-9(11)--20-56
COARSE AGGREGATE SOURCE: Farmington-Com, C. Lst., Dur. I,
YEAR CONSTRUCTED: 1979
MP 254.18 - MP 257.57 (24' ft. Rural w/ 8" PCC)
ORIGINAL PAVEMENT: 24 ft . wide, 8 inch PCC; 212 ft . wide climbing lane,
10 ft wide stabilized earth shoulder Proj FN-2-9(17)--20-56
COARSE AGGREGATE SOURCE: Farmington-Com, C. Lst., Dur. I,
YEAR CONSTRUCTED: 1979
YEAR CONSTRUCTED: 1972 Proj FN-2-9(12)--20-56 1612 ft. Reconstruction

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## PAVEMENT HISTORY cont'd:

MP 257.57 - MP 257.95 (44’ ft. 3 Lane Rural w/ 10" PCC at Jct. US 61)
ORIGINAL PAVEMENT: 44 ft . wide, 10 inch PCC; widens 28 ft . to 44 ft ,
8 ft wide granular shoulder Proj NHSX-061-1(117)—3H-56
YEAR CONSTRUCTED: 2011

## EXISTING CONDITIONS AND CAUSES OF DISTRESS:

This two lane corridor has edge-of-pavement, granular shoulder edge rutting.
The PCC pavement is $24^{\prime}$ wide. This roadway has no locations where $1-2 \mathrm{ft}$. wide edge rut treatment / HMA widening unit exists.

In general, the pavement appears generally durable and sound. Pavement cores were obtained at transverse joints and found no significant from the bottom, to the top PCC deterioration. Here is a ProjectWise directory to the core photographs: pw:<br>projectwise.dot.int.lan:PWMain\Documents\Projects\5600201019\DistrictDesign\DOCS\PD and Traffic and Map\IA 2 Lee Cores at transverse joints $91818120180918 \_145642$ core $1259+094$ EB 8 inch.jpg

| Pavement Cores at Transverse Joints to observe lower deterioration, and DBR potential Sept. 18, 2018 and Oct. 11, 2018 and Oct. 18,2018 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Highway lowa 2 Lee <br> MP 248.77 to 257.77 | Core No | Milepost | Direction | Thickness, in. | comment | photo |
|  | 1 | 249.094 | EB | 8 |  | 642 |
|  | 2 | 249.123 | WB | 6.75 | broken | 117 |
|  | 3 | 250.564 | EB | 8 | along trans. Jt., not at jt. | 417,421 |
|  | 4 | 255.34 | EB | 7.87 |  | 228,229,230 |
|  |  | 255.798 | WB | 7.87 | at longitud. Fatigue crack | 848 |
|  | 5 | 252 | EB | 8.25 | inside trav. way | 222,328 |
|  | 6 | 253 | EB | 9 | inside trav. Way at Jt. | 441, 624 |
|  | 7 | 253 | EB | 8.25 | inside trav. Way at Jt. | 734, 852 |
|  | 8 | 256.62 | EB | 8.75 | long. Cracking on slope, at Jt. | 834,122,804 |
|  | 9 | 256.86 | EB | 8.75 | long. Cracking on slope, at Jt. | 350,440,006 |
|  | 10 | 256.87 | EB | $8.5+1.5$ | exist composite transverse jt. | 584,585,593,594 |

A metal detector indicated that dowel bars exist along the longitudinal joint, but no dowel bars along the transverse joints. Some faulting is occurring along the transverse joints and it adversely affects the ride smoothness. The existing pavement has too thin of PCC
thickness at the joints for a dowel bar retrofit - which, if thicker, could have helped to stabilize the pavement slabs from further faulting at the existing sawed transverse joints. There are $3-12 \mathrm{ft}$. wide climbing lanes. MP 253.41-253.94, MP 254.35-255.01, MP 256.35-256.81. Diamond grinding of the first 2 lanes is to be included in grinding.

Fatigue cracking of PCC slabs is occurring along slope from MP 256.39 - 256.83. A 1" HMA Interlayer and a 1.5 " HMA surface course, 36 ft wide, is proposed and includes the $3^{\text {rd }}$ climbing lane. In addition, 1.5 " mill and similarly HMA overlay from MP 256.83 256.94, west of Bridge Maint. No. 5657.1S002

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SAFETY CONSIDERATIONS: Design Manual Section 1C-1 ACCEPTABLE VALUES FOR 3R ROADWAY FEATURES
Per Design Manual Section 1C-1

| Design Element | Acceptable <br> Value | Actual <br> Value | Meets <br> Criteria |
| :--- | :---: | :---: | :---: |
| 1. Regulatory Speed (mph) | 55 | 55 | Yes |
| 2. Min. Vertical Curve <br> Crest k value $=114$ pass sight dist <br> Sag min k value $=115$ headlight sight <br> dist. (35 mph) L=KA | 49 | 49 mph | Yes |
| 3. Max. Horizontal Curve <br> (degrees) | 6 | 3 deg | Yes |
| 4. Max. Gradient | $6 \%$ | $4.65 \%$ | Yes |
| 5. Lane Width (feet) | 11 | 12 | Yes |
| 6. Parking Lane Width (feet) | --- | --- | --- |
| 7. Shoulder Width (feet) | 6 | 10 | Yes |
| 8. Foreslopes | $3: 1$ | $6: 1$ | Yes |
| 9. Transverse Slopes | $6: 1$ | $<6: 1$ | unknown |
| 10. Horizontal Clearance (feet) | --- | N/A | N/A |
| 11. Bridge Width (feet) | $24+6+6=36$ | N/A | N/A |
| 12. Vertical Clearance-Over NHS (feet) | 16.5 | N/A | N/A |
| 13. Vertical Clearance-Over Local (feet) | 14.5 | N/A | N/A |

3 : There are eleven (11) Superelevated, horizontal curve locations. See sh. 6 of 1975 plans RF-218-1(8)- -3556 and Sh 6 of 1975 plans, FN-218-1(9)-21-56. The original cross slopes and superelevations will be maintained since they are below $8 \%$ and no problems exist per Design Manual 2A-2.
7.) Paved shoulders

The existing shoulders are less that 10 ft . at no locations: The crash rate is above the statewide average. The traffic volume is mostly below 3000 vpd and the horizontal alignment is generally straight. 4 ft paved shoulders with rumble strips are to be included. See pg.4-5 for the proposed shoulders for this project.
8.) The majority of the foreslopes are $6: 1$ or flatter on the project, unless noted in the plan and profile. See sh. 2A of 1978 plans RF-2-9(9)- -35-56 and Sh 2A of 1978 plans, RF-2-9(16)- $35-56$.
9.) Transverse slopes at entrances, dikes, and sideroads may be steeper than $6: 1$ at some locations on the project. Since this is a NHS route, these will be flattened and the pipes extended to the current guidelines of $8: 1$ with drainage structures and $10: 1$ without drainage structures. See Design Manual 3F-3. Apron guards are to be included on entrance pipes, 24 inches or greater in diameter.

10 : Horizontal Clearance: Clearing and Grubbing -There are a number of mature trees within the clear zone / clear runout width that should be removed- especially those on the outside of horizontal curves. These trees will be removed as directed by the engineer. Prior to removal, the trees are to be reviewed for environmental clearances (Office of Location and Environment).

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## SAFETY CONSIDERATION cont'd.:

1-Oct-18
CRASH HISTORY ON FY 2020 (Amendment) 3R PROJECT, by JRP

| la 2, Lee (38) | 3R NHSX-002-9(38)- -3H--56 |  |  | Safety HSIPX-002-9(39)--3L-56 PIN 19-56 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 202 | ADT |  |  |  |  | Rates |  |  |
| Location | Roadway Miles | All <br> Vehicles | Trucks | Crash <br> History <br> Years | Total <br> Crashes | Run <br> Off <br> the <br> $\operatorname{Road}(\mathrm{ROR})$ | NonCollision Related | Total <br> Crashes (crashes/ /HMVMT) | Rate for <br> Intersections (crashes/ /MEV) | Average <br> Statewide Rate |
| MP 248.77 to 257.57 | 8.8 | 3500 | 10\% | $\begin{gathered} 5 \mathrm{yr} .2013- \\ 2017 \end{gathered}$ | 99 | 7 | 65 | 176 |  | 93 |

The Statewide roadway Rural average is 93 Crashes / One Hundred Million Vehicle Miles of Travel (HMVMT).

The 5 year crash history from Jan. 2013 to Dec. 2017 shows that there were 99 total accidents of various types. The more frequent major causes were animal ( 65 of 99 ), run off the road (7 of 99), crossing the centerline (5 of 99), and running a stop sign (4 of 99). A total rate of $176 / \mathrm{HMVM}$ which is higher than the statewide rural average of $93 / \mathrm{HMVM}$. There were 4 fatalities and 4 major injuries. Of the 8 fatalities / major injuries, 4 were due to running off the road to the right, 2 were due to crossing the centerline, 1 ran a stop sign, and 1 lost control.

The Safety Program is seeking to achieve more 4 ft . paved shoulders on 2-lane roadways. This segment of highway have been identified as a part of the Ia. $\underline{2}$ NHS highway system that would benefit by the addition of 4 ft paved shoulders with rumble strips. Centerline rumble strips could also help to alleviate the frequency of crossing the centerline accidents.

The existing outside shoulder cross-slope has been field checked at a few random locations and found to have an average cross slope of $4 \%$, and an average width of 12.5 ft ., rather than the design width of 10 ft . It is anticipated that additional virgin aggregate material will be needed to "top-off" the remaining granular shoulder after the addition of the $\mathbf{4}$ foot paved shoulders. In various locations, the existing shoulder is graded wider than the design width. The shoulder will be extended / tapered wider, outside the design width, with Cl .13 excavated material (granular), and rolled down to match the existing foreslope.

## FULL WIDTH HMA PAVED SHOULDER AT GUARDRAIL

Additional cost for full width x 9" deep paved shoulders ("beyond" the 4 ft fundamental cost) will be added for all guardrail, per detail 7156 , to maintain safety height criteria and improve long-term maintenance of the shoulder cross section. The estimate includes additional costs to accommodate temporary removal and reinstallation of the existing guardrail during HMA placement of the paved shoulder.

The 4 existing cable rails are to be removed and replaced with High Tension cable rail and full width x 9" deep paved shoulders. The locations are: MP 249.81-249.936 N. side; MP 252.9-252.99 S. side; MP 255.67-255.85 N. side; and MP 256.06-256.26 N. side.

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## HMA PAVED SHOULDER

Construct 4 ft . x 6 inch deep HMA paved shoulders along both sides of US 218.
UAC 4 ft . of the 7 existing, 7-12' wide HMA surface fillets, at residential gravel entrances, per Typical 7139. The existing HMA fillets at entrances, beyond 4 ft are to be quantified and removed with Class 13 excavation. Construction of new 4 ft . fillets, via the mainline 4 ft paved shoulder, is needed at the other entrances where none currently exist.

With the exception of gravel public side road intersections that Lee County may want paved, also include 10 ' wide by $6^{\prime \prime}$ thick HMA fillets at all non-paved county side roads. (The proposed typical 4' wide paved shoulder will be gapped and replaced with the wider 10' HMA fillets).

Lee County was contacted and declined to participate in the funding, within the project limits, HMA paved approaches ( 6 " or 9 " in depth) of approximately 50 ' in length at nonpaved side roads (beyond the proposed 4 ft . paved shoulder). The county appreciates the 10 ft . HMA fillets.

There are no (0) side road T-intersections that do not have a safety dike.

## STRUCTURES (Bridges):

The following bridges are located within the project limits and do not require concrete bridge rail retrofits but one requires guardrail updates as indicated. The guardrail length will be upgraded (extended to current clear zone requirements).
MP 254.4 (Sta. 774+31.9) Maint. Bridge No. 5654.4S002 (FHWA No. 033261)
44' x 291' pretensioned concrete beam bridge carrying IA 2 over Big Sugar Creek, located 3.4 mi . W. of Jct. US 61

Official Sufficiency Rating: 96.3
This bridge (built in 1979) has stub concrete abutments on H pile (not moveable). W-beam style bolted guardrail connections at the concrete bridge end posts are in place, and they need updated to the currently approved asymmetric style (Road Standard, BA-200 series). Remove the existing 250 lf of guardrail and install approximately 450 lf of new guardrail per road standard, BA-250, grade the foreslope per EW-301, and pave the shoulder per Std. detail 7156. Plus, for the traffic control of future bridge work, a thickened 4 ft x 9 " paved shoulder is to be extended 300 ft from the bridge ends. The existing concrete rail is $34 "$ tall.

MP 257.1 (Sta. $918+00$ ) Maint. Bridge No. 5657.1S002 (FHWA No. 033271)
44 ' x 242 ' prestressed concrete bridge carrying IA 2 over DevilCreek, located 0.5 mi . W. of
Jct. US 61
Official Sufficiency Rating: 91.7
This bridge (built in 1973) has integral concrete abutments supported on H friction piling. (moveable). An HMA leveling course has been placed on both bridge approaches. This bridge had a deck overlay, and new guardrails constructed in 2018 per Proj. BRFN-002-$9(28)-$-39-56. Therefore, UAC the existing guardrail and paved shoulders. The existing concrete rail is 35 " tall.

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## STRUCTURES (Bridges) cont'd:

MP 257.4 Ia 2 Maint. Bridge No. 5657.40002 (FHWA No. 609570 )
$60^{\prime} \times 272$ ' carrying IA 2 over US 61, located at the Jct. of Ia 2 Milepost 57.4 and US 61
Milepost 18.6
Official Sufficiency Rating: 100
This bridge (built in 2011) has integral concrete abutments (moveable).
The existing guardrail includes approved asymmetric style thrie beams (Road Standard, BA-200 series). The 106.25 lf guardrail at the approach ends will be UAC and not be improved as a part of this project. There is no existing guardrail in the trailing ends and none are needed.

## LARGE CULVERTS

There are 4 large box culverts ( $5^{\prime} \times 5$ ' or larger) on this project:
8 'x 8 ' MP 248.4 (Sta. $521+80$ ) with 10 'x 8 ' tapered inlet,
5'x5' MP 248.8 (Sta $542+50$ ) with 6' x 5 ' tapered inlet,
6'x5' MP 251.7 (Sta 692+85) with 6'x5' tapered inlet,
4 'x 5.5 ' Stockpass MP 252.8 (Sta $751+02$ ) that also conveys 12 Ac. of drainage.
These sites have no existing guard rail. There is suitable foreslope grading. No guard rail is needed.

## SMALL CULVERT REPAIR

There are 11 flumes, and 32 small culverts ( $5^{\prime} \times 5^{\prime}$ or smaller) within the project that may be considered for extension or repair within existing right of way.

## FEASIBLE ALTERNATES:

Structural analysis 8/20/18, based on 8/16/18 Traffic Est. No. 3346 :
Estimate: Lee, 2, Est\# 3346, Dated 8/16/18
Est. Location From ECL of Donnellson to US 61
Date: 8/20/18
FWD

| MP | MP | Dir. | TESTED | AVG K <br> (psi/in) | STRUC <br> Needed | $\mathbf{8 0 \%}$ SR | (in) | PAVEMENT (TEST SECTION BOOK) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 248.77 | 254.18 | B | $05 / 15 / 2012$ | 97 | 5.1 | 2.99 | 5.0 | 1979 F-2-9(11)--20-56 PCC 8.0 |
| 254.18 | 257.57 | B | $08 / 25 / 2015$ | 91 | 5.14 | 2.74 | 5.7 | 1979 FN-2-9(17)--21-56 PCC 8.0 |
| 257.57 | 257.77 | B | $05 / 06 / 2014$ | 165 | 5 | 4.87 | 0 | 2000 NHS-61-1(103)--3H-56 PCC 9.5 GSB 11.0 |

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## PROPOSED CONCEPT:

MP 248.77 to 257.77 Rural, Ia 2 from the US 218 Jct., east to the US 61 Interchange:
For this Concept, a holding strategy will be implemented to diamond grind the pavement surface to improve the ride (IRI) - which may also be a benefit for a future year HMA overlay to provide the needed additional pavement structure.
This concept includes diamond grinding of the 24 ft . wide pavement, 4 ft . wide x 6 inch HMA (PG 58-28S, 3/4" Standard Base) paved shoulders, 6 ft . wide x 1 inch Type B granular shoulders, subdrains, milled HMA shoulder and milled PCC centerline rumble strips.
The Soils Office indicates that this project has $81 \%$ existing subdrain coverage per 1993 Proj. FN-2-$9(11)--21-56$. Subdrain gaps seem to coincide with areas that include shallow ditches and/or development near the road. This project includes $15 \%$ additional subdrain coverage.
Right of way is not required for this project. Traffic will be maintained during construction (no detour).

| 3R, Pavement and roadside |  |
| :---: | :---: |
| Clearing and grubbing, pg. 3 note 10 | \$ 3,000 |
| Pipe Repairs, pg. 6 | \$ 25,000 |
| Transverse slope flattening at entrances, pg. 3 note 9 | \$ 20,000 |
| Full Depth patching | \$ 75,000 |
| Pavement grinding, limestone, incl. 2 climbing lanes | \$ 438,200 |
| MP 256.39-256.83 Hill, Interlayer, 1" x $36 \mathrm{ft} \mathrm{incl} .\mathrm{climb} \mathrm{lane}, \mathrm{pg}$. | \$ 39,900 |
| HMA Surface, 1.5 " x 44 ft , incl. paved shld. | \$ 59,100 |
| MP $256.83-256.94$ W. Appr. to bridge, Scarify HMA 1.5", pg. 2 | \$ 1,500 |
| Interlayer and Binder PG 58-34E, 1 " x $24 \mathrm{ft} \mathrm{incl}$. | \$ 6,700 |
| HMA Surface, PG 58-28H, 1.5 " x 32 ft , incl. paved shld. | \$ 10,800 |
| Milled PCC Centerline Rumble strips | 4,300 |
| Milled HMA Centerline Rumble strips, MP 256.39-256.94 | 300 |
| Remove cable rail and place High Tension Cable rail, pg. 4 | \$ 23,400 |
| 9 " Paved shoulder at cable rail, pg. 4 | \$ 137,100 |
| Longitudinal subdrains, pg 7 | \$ 44,600 |
| 3R Subtotal | \$ 888,900 |
| Traffic Control 1.2\%, Mobilization 5\%, Contingency 10\% | \$ 144,000 |
| 3R Total | \$1,032,900 |
| HSIPX, Safety, Paved Shoulders |  |
| Cl. 13 Excavation | \$ 88,900 |
| HMA base widening, PG 58-28S pg. 4 | \$ 868,800 |
| Milled HMA Shoulder Rumble strips, pg. 3 note 7 | \$ 16,500 |
| Granular Shoulders, pg. 4 | \$ 76,100 |
| W-beam Guardrail updates, and 9" paved shld. pg. 5 | \$ 121,200 |
| HSIPX Subtotal | \$1,171,500 |
| Traffic Control 1.2\%, Mobilization 5\%, Contingency 4.76\% | \$ 128,500 |
| HSIPX Total | \$1,300,000 |
| Total 3R and HSIPX | \$2,332,900 |
| Lee County side roads, pg. 5 |  |
| TOTAL | \$2,332,900 |

## FUNDS PROGRAMMED, pending:

This project is proposed as FY 2020 candidate.

$$
\begin{aligned}
& \text { 3R Program } \$ 1,032,900 \\
& \text { HSIPX Program } \$ 1,300,000 \\
& \text { Lee County Funding } \$ \quad 0 \\
& \text { Total \$2,332,900 }
\end{aligned}
$$

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SCHEDULE: The letting date is pending the program funding. Plans are to be prepared for a December 2019 letting.

| 3R PROJECT SCHEDULE SYSTEM <br> TRIGGERS \& NEEDS | YES | NO |
| :--- | :---: | :---: |
| TRIGGERS: |  |  |
| Metric Project - plans will convert to English stations |  | X |
| Consultant Involved |  | X |
| Lighting |  | X |
| Traffic Signals |  | X |
| Traffic Signs |  | X |
| Railroad, pg. 5 |  | X |
| Access Control |  | X |
| NEEDS: |  | X |
| Survey (topographic, borrow site, property lines) |  | X |
| Geotechnical / Borrow Site / Slope stabilization |  | X |
| Right of Way |  | X |
| Structures |  | X |
| Utility Relocations | X |  |
| County Agreement (pave 50 ft. at gravel side roads) |  |  |

cc:

| J. R. Selmer | C. Purcell | M. J. Kennerly |
| :--- | :--- | :--- |
| K. D. Nicholson | D. L. Maifield | C. B. Brakke |
| S. J. Megivern | M. D. Masteller | B. R. Smith |
| F. W. Todey | A. A. Welch | N. M. Miller |
| C. C. Poole | J. Nelson | G. A. Novey |
| M. A. Swenson | P. C. Keen | R. A. Younie |
| S. P. Anderson | D. R. Tebben | B. D. Hofer |
| K. Brink | D. L. Newell | B. E. Azeltine |
| W. Musgrove T. D. Hanson FHWA (Program.Delivery- <br> IA@dot.gov)   <br> S. J. Gent T. D. Crouch J.W. Laaser-Webb  <br> W.A. Sorenson D. E. Sprengeler E. C. Wright <br> M. Van Dyke J. R. Webb T. Quam <br> J. Woodcock M. Hobbs (Rail) A.J. Klein E. Engle (Rail) <br> J. R. Phillips B. M. Clancy M. E. Ross <br> R. Porter L. Finarty L. Giarmo J. Garton |  |  |

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