

**SUPPLEMENTAL AGREEMENT NO. 4  
FOR PROFESSIONAL SERVICES  
City of Olathe, Kansas**

This Supplemental Agreement made this \_\_\_\_\_ day of \_\_\_\_\_, 2020, by and between the City of Olathe, hereinafter referred to as the "City", and HNTB Corporation, hereinafter referred to as the "Consultant".

WITNESSETH:

WHEREAS, the City and Consultant have previously entered into an Agreement, dated September 20, 2016 ("the Agreement"), to furnish Professional Services for

Project No. 3-C-026-16, I-35 & 119<sup>th</sup> Street Interchange Project,

hereinafter referred to as the "Project"; and

WHEREAS, Section II.B.2 of the Agreement provides that Consultant shall provide, with City's concurrence, services in addition to those listed in the Professional Services Agreement, when such services are requested or authorized in writing by the City.

WHEREAS, this Supplemental Agreement No. 4 between the parties heretofore is to provide additional Professional Services in the way of **Additional Final Design Services** (HNTB Project Number 64686-DS-001) for the Project as outlined in **Exhibit A** of this Supplemental Agreement No. 4, attached hereto and incorporated herein by reference; and

WHEREAS, the City is desirous of entering into Supplemental Agreement No. 4 to pay the Consultant for additional services rendered to the City related to the Project; and

WHEREAS, the City is authorized and empowered to contract with the Consultant for the necessary additional professional services under the Agreement, and necessary funds for the payment of said services related to the Project are available and authorized under the Agreement.

NOW THEREFORE, the parties hereby agree as follows:

- A. The total fee for the aforementioned additional professional services provided pursuant to this Supplemental Agreement No. 4 is \$656,553.00 which raises the total fee for all services provided under the Agreement from \$2,491,166.22 to \$3,147,719.22.
- B. The HNTB Schedule of Rates in Exhibit C of the Agreement is hereby amended as outlined in **Exhibit B** of this Supplemental Agreement No. 4.
- C. That project completion date in Section II.D. of the Agreement is hereby

amended as follows:

- All work must be completed on or before December 31, 2020.

D. That Section III of the Agreement is hereby amended to include the professional services as outlined in the proposal attached hereto as Exhibit A and made a part thereof.

IN ALL OTHER RESPECTS, the terms and conditions of the Agreement shall remain in full force and effect, except as specifically modified by this Supplemental Agreement No. 4, including all policies of insurance which shall cover the work authorized by this Supplemental Agreement No. 4.

IN WITNESS WHEREOF, the parties hereto have caused this Supplemental Agreement No. 4 to be executed as of the day and year first above written.

**CITY OF OLATHE, KANSAS**

By: \_\_\_\_\_  
Michael E. Copeland, Mayor

ATTEST:

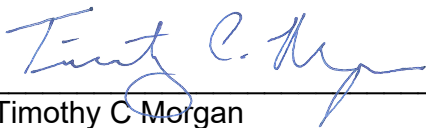
\_\_\_\_\_  
City Clerk

(Seal)

APPROVED AS TO FORM:

\_\_\_\_\_  
City Attorney/Deputy City Attorney/Assistant City Attorney

\_\_\_\_\_  
**HNTB Corporation**

By:   
\_\_\_\_\_  
Timothy C Morgan  
Vice President

## Exhibit A - Additional Final Design Scope of Services

The original agreement with HNTB provided for a Concept Study to develop the recommended improvements for the I-35 & 119<sup>th</sup> Street Interchange design. The concept study concluded with direction to move forward with the preferred alternative Diverging Diamond Interchange (DDI). Generally, this alternative provides for three through lanes in each direction on 119<sup>th</sup> Street from Renner to Strang Line and added auxiliary lanes at the interchange while modifying the 119<sup>th</sup> Street bridges over I-35 and widening the bridges over the BNSF Railway. Supplemental Agreement No. 1 (SA1) was for preliminary design services to move forward with the Diverging Diamond Interchange (DDI) at I-35 and 119<sup>th</sup> Street and associated improvements on 119<sup>th</sup> Street from just west of Renner Road east to Strang Line Road. Supplemental Agreement No. 2 (SA2) with HNTB was for design services to take the design to an Office Check (~90% level). Additionally, SA2 provided for assistance in preparing and submitting a 2019 BUILD Transportation Discretionary Grant, in conjunction with the City of Olathe and KDOT. The project team was notified in November 2019 that they were awarded a \$10 million BUILD Grant. Supplemental Agreement No. 3 (SA3) with HNTB was for additional survey by Wilson and Company incorporating additional improvements at the 119<sup>th</sup> and Renner intersection, west of Renner to Winchester Street. SA3 also includes re-survey of the I-35 and 119<sup>th</sup> Street interchange ramps to incorporate the 2019 KDOT overlay project and additional topo survey east of Strang Line for proposed interchange sign structures.

This Supplemental Agreement No. 4 with HNTB is for additional design services to take the design to bidding plans. This supplemental incorporates bridge and landscaping aesthetics including subcontracting with Zahner Companies for design-assist of the bridge aesthetic fins to be attached to the external barriers of the I-35 bridges. Additional design is included for aesthetic lighting for the I-35 bridges. The supplemental includes design of median landscaping for the medians only on 119<sup>th</sup> Street from Renner to Strang Line. Additionally, this scope of services provides for additional services to incorporate additional design updates for the I-35 and 119<sup>th</sup> interchange ramps to account for the 2019 KDOT overlay project, incorporate additional design to accommodate the Olathe Gateway (MaeGrace) Development in the southwest quadrant of 119<sup>th</sup> and Renner, Johnson County Wastewater improvements and Olathe Water improvements.

Supplemental Agreement No. 4 assumes assistance in preparing, reviewing, and updating the 2019 BUILD Grant agreement. This does not include any services related to the 2019 BUILD Grant during and/or post construction and this may be negotiated as a supplemental agreement. Additional assistance is provided to prepare bidding specifications and contract documents to incorporate an A + B procurement strategy. Bidding Services assume that the project will be bid through the City of Olathe with electronic (pdf) plan set and contract documents for use in electronic bidding via [www.publicpurchase.com](http://www.publicpurchase.com).

HNTB's detailed scope of services is attached. No construction phase engineering services, or construction inspection are included in this scope of services but will be negotiated as a supplemental agreement.

## Assumptions

For the purposes of developing this scope and fee supplemental, the following assumptions have been made:

- a. **Project Limits** - Permanent improvements to 119<sup>th</sup> Street will be limited to ~5300' from ~1640' west of Renner Road to the west curb returns of Strang Line Road. Permanent improvements on each of the four ramps will extend as needed to allow the vertical grades to tie back into existing and add turn lanes. Widening is planned for the 119<sup>th</sup> Street bridges over the BNSF Railway but only modifications are required for the bridges over I-35. No improvements are planned for I-35 through the project area with this supplement.
- b. **Utility Coordination** - Additional utility coordination services are outlined in the attached scope of services to assist the City of Olathe through utility relocations anticipated December 2020.
- c. **Permits/Environmental** - It is assumed there is no need for a U.S. Army Corps of Engineers (USACE) 404 permit or a Kansas Department of Agriculture (KDA) permit. The permitting/environmental services are limited to preparation of the NPDES Notice of Intent (NOI) permit.
- d. **Waterline Design** - It is assumed there will be ~1,000 feet of waterline replacement along 119<sup>th</sup> Street. It is assumed all waterline requiring replacement is owned by Olathe Water.
- e. **Sanitary Sewer Design** - It is assumed that approximately 650 feet and 3 manholes of sanitary sewer will require relocation. It is assumed all sanitary sewer is owned by Johnson County Wastewater. Any other sanitary work is limited to top elevation adjustments.
- f. **Storm Sewer Design** - Capacity of downstream storm sewer systems will not be evaluated as runoff is not expected to increase significantly. Only the proposed storm improvements that correspond with the widening of 119<sup>th</sup> Street west of Winchester will be analyzed; the 86" CMP that drains from south to north west of Winchester will not be evaluated.
- g. **Erosion Control** - All erosion and sediment control will follow KDOT standards and specifications. Erosion control plans will be developed in the PS&E Design phase, but it is assumed the phasing of the erosion control will be limited due to the anticipated construction phasing of the project. The KDOT consent decree does not apply to BLP.
- h. **Bridges** - The previous supplemental was based on previous DDI geometry and did not reflect the current proposed aesthetic improvements. Revised bridge geometry requires a change to the design and details of the girders, deck, substructure and concrete safety barriers. While the proposed girders and substructure will be designed in accordance AASHTO Standard Specifications to match the existing bridge, the proposed barriers and new widened/replaced bridge deck will be updated to meet AASHTO LRFD requirements. The aesthetic improvements include aesthetic fins to be attached to the barriers of the I-35 bridges which will require on-going coordination including up to 3 coordination meetings with Zahner to develop loads, geometry and details. The existing girders and proposed bridge deck will be evaluated for this aesthetic loading. A non-linear handrail and BNSF protection fence will be developed to be used adjacent to sidewalks and over BNSF right of way.
- i. **BNSF Railroad Coordination** - Olathe will administer any BNSF related agreements and lead coordination. One additional meeting is provided with this supplemental.
- j. **Public Involvement/Stakeholder Engagement** - One additional Olathe City Council presentation and one overall public informational meeting are assumed with this

- supplemental.
- k. **Traffic Engineering** - additional scope is provided to address anticipated KDOT Traffic Engineering comments and update the plans for Office Check plans. No additional changes are expected after Office Check.
  - l. **Traffic Management Plan (TMP)** - additional scope is provided to address anticipated KDOT Traffic Engineering comments and update the plans for Office Check plans. No additional changes are expected after Office Check.
  - m. **Aesthetics/Landscaping** -Aesthetics and landscaping supplemental design for both the aesthetic fins and lighting to be attached to the barriers of the I-35 bridges, a non-linear handrail and BNSF protection fence, and median landscaping for the medians only on 119<sup>th</sup> Street from Renner to Strang Line. PS&E and bidding plans for the preferred alternative are included in this supplemental.
  - n. **Pavement Marking/Signing** - It is assumed KDOT is providing structural design for all guide signs.
  - o. **Traffic Signals/Street Lighting/Fiber/ITS** -additional services are outlined in the attached scope of services.

**Construction Phase Services** - No construction phase engineering services, or construction inspection are included in this scope of services but will be negotiated as a supplemental agreement.

## Deliverables

The following Deliverables will be developed and conducted throughout Final Design:

- Traffic Management Plan (TMP) Final Document
- Plans, Specifications, and Estimate (PS&E)
- Bidding Plans, Specifications, and Estimate

## Schedule

It is assumed that additional design services will continue through December 2020, culminating with anticipated bidding and award of the project for construction in December 2020.

- Assumed Notice to Proceed (NTP) - March 17, 2020
- Office Check Plans - June 12, 2020 (revised date from SA 2)
- Traffic Management Plan (TMP) Final Document - June 12, 2020
- Plans, Specifications, and Estimate (PS&E) - August 14, 2020
- Assumed BUILD Grant Agreement Approval - September 4, 2020
- Bidding Plans, Specifications, and Estimate (PS&E) - September 25, 2020
- Assumed Advertisement - September 30, 2020
- Assumed Contractor Bid Opening - November 13, 2020
- Assumed Construction Start - January 5, 2021

**EXHIBIT A - SA 4 - Additional Final Design Scope of Services - 3-C-026-16**

<b>I-35 &amp; 119th Street Interchange - Additional Final Design - SA 4 2/26/2020</b>		<b>Project Manager</b>	<b>Senior Technical Advisor</b>	<b>Senior Engineer</b>	<b>Engineer</b>	<b>Technician</b>	<b>Total</b>	<b>Total Costs</b>
<b>Item of Work</b>		\$240	\$210	\$170	\$115	\$140		
<b>1.0 Additional Final Design</b>								
1.1	<b>I-35 and 119th KDOT Ramp Overlay Design Updates</b>							
1.1.1	Coordinate with KDOT and process additional survey to update existing surface for 4 interchange ramps and tie-ins to 119th Street	4			4	4	12	\$ 1,980
1.1.2	Update Typical Sections per final KDOT pavement recommendations for interchange ramps			1	8	12	21	\$ 2,770
1.1.3	Update vertical alignments, superelevation transitions, plan, profile, intersection detail and superelevation plans sheets to accommodate ramp overlays		2	16	48	8	74	\$ 9,780
1.1.4	Update proposed surface model and roadway cross sections for 4 interchange ramps		1	8	32	2	43	\$ 5,530
	<b>I-35 and 119th KDOT Ramp Overlay Design Updates</b>	<b>4</b>	<b>3</b>	<b>25</b>	<b>92</b>	<b>26</b>	<b>150</b>	<b>\$ 20,060</b>
1.2	<b>Olathe Gateway (MaeGrace) Development Coordination and Design Updates</b>							
1.2.1	City/Developer coordination and concept exhibit to confirm limits of improvements	8			8	4	20	\$ 3,400
1.2.2	Create and Update typical sections and determine horizontal geometry for 119th WB Right turn lane at Renner Road and Renner Road SB Right turn lane at 119th Street including lane width, tapers, storage length, sidewalk, and tie-ins.			2	8	4	14	\$ 1,820
1.2.3	Create and Update curb profile and curb profiles sheets for widening of 119th WB Right turn lane at Renner Road and Renner Road SB Right turn lane at 119th Street	1		2	8	2	13	\$ 1,780
1.2.4	Create and Update surface model/cross sections every 25 feet for 119th WB Right turn lane at Renner Road and Renner Road SB Right turn lane at 119th Street			2	12	2	16	\$ 2,000
1.2.5	Create and Update plan sheets (plan scale 1"=20') for widening of 119th WB Right turn lane at Renner Road and Renner Road SB Right turn lane at 119th Street (assumes 3 new plan sheets and revisions to 4 plan sheets)			8	16	8	32	\$ 4,320
1.2.6	Update intersection detail sheets for 119th Street and Renner Road Intersection			4	24	4	32	\$ 4,000
1.2.7	119th and Renner storm drainage updates due to added WB and SB right turn lanes (redraw drainage areas, perform storm sewer pipe calculations, update pipe profiles and construct notes on plan sheets, update drainage area map)	2		20	40	12	74	\$ 10,160
1.2.8	Olathe Gateway storm drainage design (review as-builts, determine drainage areas, space curb inlets, lay out pipe network/outlets/tie-ins, perform storm sewer pipe calculations, develop pipe profiles, assess utility impacts, incorporate construct notes into roadway plan sheets, update drainage area map)	2		4	16	4	26	\$ 3,560
1.2.9	Prepare and Update Traffic Signal Modification Plan (119th Street and Barney Blvd.)			8		4	12	\$ 1,920
1.2.10	Additional Fiber Optic Interconnect Layout west of Renner Road to Barney Blvd. and on Renner Road north of 119th			8		2	10	\$ 1,640
1.2.11	Create and Update pavement marking, signing and traffic control sheets/notes			2	8	4	14	\$ 1,820
	<b>Olathe Gateway (MaeGrace) Development Coordination and Design Updates</b>	<b>13</b>		<b>60</b>	<b>140</b>	<b>50</b>	<b>263</b>	<b>\$ 36,420</b>
1.3	<b>PS&amp;E Plans Roadway Design and Plan Development</b>							
1.3.1	Address Office Check comments	4		16	40	8	68	\$ 9,400
1.3.2	Update plans, proposed surface model and roadway cross sections based on ROW Acquisition comments or Utility Relocation changes	4		8	16	4	32	\$ 4,720
1.3.3	Create and update exhibits for design and coordination meetings between Office Check and Bidding (Assume 3 meetings)	2		8		16	26	\$ 4,080
1.3.4	Prepare deliverables for PS&E plan submittal	2		8		16	26	\$ 4,080
1.3.5	Update roadway summaries of quantities, recapitulation of quantities per Office Check comments			8	16		24	\$ 3,200
1.3.6	Update construction cost estimate per Office Check Comments		4		8		12	\$ 1,760
	<b>PS&amp;E Plans Roadway Design and Plan Development</b>	<b>12</b>	<b>4</b>	<b>48</b>	<b>80</b>	<b>44</b>	<b>188</b>	<b>\$ 27,240</b>
1.4	<b>PS&amp;E Plans Drainage and Erosion Control Design</b>							
	<b>Drainage</b>							
1.4.1	Address Office Check comments and update for PS&E plans	1		4	8	6	19	\$ 2,680
1.4.2	Make final updates/revisions to drainage plan and profile sheets			4	8	8	20	\$ 2,720
1.4.3	Assemble, update and finalize City/other standard and special details to include in plans				2	4	6	\$ 790
1.4.4	Update and finalize storm sewer calculation table				4	4	8	\$ 1,020
1.4.5	Update drainage quantity tables			4	8	2	14	\$ 1,880
1.4.6	Plan consistency check (plans, pipe profiles, DA map)			2	4		6	\$ 800
	<b>Erosion Control</b>							
1.4.7	Finalize phased erosion and sediment control design (includes additional for Olathe Gateway Development)			8	16	8	32	\$ 4,320
1.4.8	Update erosion and sediment control quantities and cost estimate			2	4	1	7	\$ 940
1.4.9	Finalize erosion and sediment control details			2	2	4	8	\$ 510
	<b>PS&amp;E Plans Drainage and Erosion Control Design</b>	<b>1</b>		<b>24</b>	<b>56</b>	<b>35</b>	<b>116</b>	<b>\$ 15,660</b>
1.5	<b>Johnson County Wastewater (JCW) Design and Plan Development</b>							
1.5.1	Meetings / Coordination (client & owner)	2		2			4	\$ 820
1.5.2	Cover Sheet			2	4	8	14	\$ 1,920
1.5.3	Plan & Profile Sheets	2		6	8	16	32	\$ 4,660
1.5.4	Standard Details				2	2	4	\$ 510
1.5.5	Quantities and Cost Estimate	2		2	4		8	\$ 1,280
	<b>Johnson County Wastewater (JCW) Design and Plan Development</b>	<b>6</b>		<b>12</b>	<b>18</b>	<b>26</b>	<b>62</b>	<b>\$ 9,190</b>
1.6	<b>Olathe Water Design and Plan Development</b>							
1.6.1	Meetings / Coordination (client & owner)	2		2			4	\$ 820
1.6.2	Horizontal and Vertical design of 119th 24" main relocation along south side of 119th due to road and storm updates at Olathe Gateway Development (assumes 265 linear feet)			2	8		10	\$ 1,260
1.6.3	Horizontal and Vertical design of 8" and 16" mains relocation along north side of 119th just east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation)			4	16		20	\$ 2,520
1.6.4	Office Check Water Line Plan and Profile Sheets (plan scale 1"=20') (Assumes 3 sheets)			2	16	16	34	\$ 4,420
1.6.5	Waterline Connection Details (assumes 3)	1		4	4	8	17	\$ 2,500
1.6.6	Address Office Check Waterline comments and update plan, profile, and connection details for PS&E Submittal	1			4	8	13	\$ 1,820
1.6.7	Assemble, update and finalize Olathe Standard Waterline Detail sheets for Office Check and PS&E submittals				2	2	4	\$ 510
1.6.8	Olathe Water Quantities and Cost Estimate for Office Check and PS&E Submittals	2		2	4		8	\$ 1,280
	<b>Olathe Water Design and Plan Development</b>	<b>6</b>		<b>16</b>	<b>54</b>	<b>34</b>	<b>110</b>	<b>\$ 15,130</b>
1.7	<b>PS&amp;E Plans Bridge and Wall Final Design and Aesthetics</b>							
	<b>119th Street over I-35 (EB &amp; WB Detailed Separately)</b>							
1.7.1.1	Deck Design & Detailing for Aesthetic and LRFD Loading			14	18		32	\$ 4,450
1.7.1.2	Girder Elevations Due to Aesthetic Loading			6	10	8	24	\$ 3,290
1.7.1.3	Aesthetic Specifications and Aesthetic Attachment Details	12		30	48	60	150	\$ 21,900
1.7.1.4	Median Barrier Capacity Check (KDOT Direction)			24	36		60	\$ 8,220
	<b>119th Street over I-35 (EB &amp; WB Detailed Separately)</b>	<b>12</b>		<b>74</b>	<b>112</b>	<b>68</b>	<b>266</b>	<b>\$ 37,860</b>
	<b>119th Street over BNSF &amp; Old Kansas City Road (EB &amp; WB Detailed Separately)</b>							
1.7.2.1	Abutment Widening Design and Details (4 Unique Locations)			20	40	50	110	\$ 15,000
1.7.2.2	Handrail Details (Developing Special Details and Design)			16	30	40	86	\$ 11,770
1.7.2.3	Superstructure & Substructure Redesign (Geometry Change)			100	130		230	\$ 31,950
	<b>119th Street over BNSF &amp; Old Kansas City Road (EB &amp; WB Detailed Separately)</b>			<b>136</b>	<b>200</b>	<b>90</b>	<b>426</b>	<b>\$ 58,720</b>
1.7.3	<b>General Details</b>							
1.7.3.1	Non-Standard CSB & Transition Details (5 Sheets)			16	36	40	92	\$ 12,460
1.7.3.2	Addressing Office Check Comments	4		16	20	32	72	\$ 10,460
	<b>General Details</b>	<b>4</b>		<b>32</b>	<b>56</b>	<b>72</b>	<b>164</b>	<b>\$ 22,920</b>

**EXHIBIT A - SA 4 - Additional Final Design Scope of Services - 3-C-026-16**

<b>I-35 &amp; 119th Street Interchange - Additional Final Design - SA 4 2/26/2020</b>		<b>Project Manager</b>	<b>Senior Technical Advisor</b>	<b>Senior Engineer</b>	<b>Engineer</b>	<b>Technician</b>	<b>Total</b>	<b>Total Costs</b>
<b>Item of Work</b>		\$240	\$210	\$170	\$115	\$140		
1.7.4	<b>Bridge Aesthetics Zahner Design-Assist</b>							
1.7.4.1	Develop and provide structural design parameters, fin geometry, and loading criteria for development of project specific fins		16	16			32	\$ 6,080
1.7.4.2	Additional City, KDOT & Aesthetic (Zahner) Meetings (assumes 3 people for 4 meetings)		12	36			48	\$ 8,640
1.7.4.3	Coordination with Zahner through Design Assist (assumes 10 months Design-Assist)		10	10			20	\$ 3,800
1.7.4.4	Address Comments through PS&E and Final Check		16	24		24	64	\$ 10,800
<b>Bridge Aesthetics Zahner Design-Assist</b>			<b>54</b>	<b>86</b>		<b>24</b>	<b>164</b>	<b>\$ 29,320</b>
<b>PS&amp;E Plans Bridge and Wall Final Design and Aesthetics</b>		<b>16</b>	<b>54</b>	<b>328</b>	<b>368</b>	<b>254</b>	<b>1020</b>	<b>\$ 148,820</b>
<b>1.8 PS&amp;E and Bidding Plans Corridor Aesthetics/Landscape Design</b>								
1.8.1	Assist City in preparing KDOT Non-Highway Use of Right-of-Way Permit application package including exhibits showing existing and proposed aesthetics within KDOT "zone of influence"	2		8	16	8	34	\$ 4,800
1.8.2	Address comments and finalize KDOT Non-Highway Use of ROW Permit package	2		4	8	4	18	\$ 2,640
1.8.3	Final Landscape Plan Sheets (9)		2			42	44	\$ 6,300
1.8.4	Final Brick Layout Sheets (9)		2			32	34	\$ 4,900
1.8.5	Final Brick Details Sheet (1)		1			24	25	\$ 3,570
1.8.6	Final Landscape Details and Schedule Sheets (2)		1			8	9	\$ 1,330
1.8.7	Final Specifications for Landscape and Brick Pavers		2			10	12	\$ 1,820
1.8.8	Final Cost Estimate		1			4	5	\$ 770
<b>PS&amp;E and Bidding Plans Corridor Aesthetics/Landscape Design</b>		<b>4</b>	<b>9</b>	<b>12</b>	<b>24</b>	<b>132</b>	<b>181</b>	<b>\$ 26,130</b>
<b>1.9 PS&amp;E and Bidding Plans Traffic Engineering</b>								
1.9.1	Address Traffic Engineering Comments		8	16			24	\$ 4,400
1.9.2	Update signing details, standards, and quantities and signing quantity tables (includes post type, size, and length determination)			4	24	4	32	\$ 4,000
1.9.3	Update pavement marking quantities and pavement marking quantity tables			4	12	4	20	\$ 2,620
1.9.4	Update traffic control plans to address Traffic Engineering comments (includes consideration for impacts of I-35 bridge demo)		2	4	24	16	46	\$ 6,100
1.9.5	Update traffic detour plans for proposed closures		1	2	8	8	19	\$ 2,590
1.9.6	Update traffic control detail sheets, standards, and quantities		1	4	24	2	31	\$ 3,930
1.9.7	Update and Finalize TMP based on Traffic Engineering Comments		8	24		8	40	\$ 6,880
<b>PS&amp;E and Bidding Plans Traffic Engineering</b>			<b>20</b>	<b>58</b>	<b>92</b>	<b>42</b>	<b>212</b>	<b>\$ 30,520</b>
<b>1.10 PS&amp;E and Bidding Plans Lighting, Signals, Fiber, and ITS</b>								
1.10.1	Address Office Check Comments and make final updates for PS&E and bid plans	8		24			32	\$ 6,000
1.10.2	Lighting Layout Plans Modifications on Renner Road north of 119th Street			4		2	6	\$ 960
1.10.3	Prepare and Update Traffic Signal Modification Plan (119th Street and Strang Line Road)			16		4	20	\$ 3,280
1.10.4	Aesthetic Lighting for I-35 bridges							\$ -
1.10.4.1	a. Lighting System Design & Plan Production		4	40		16	60	\$ 9,880
1.10.4.2	b. Special Details		4	40		16	60	\$ 9,880
1.10.4.3	c. Lighting Controls for Color Changing		4	16		8	28	\$ 4,680
1.10.4.4	d. Specs and/or Special Provisions		8	16			24	\$ 4,400
1.10.4.5	e. Meetings		2	6			8	\$ 1,440
1.10.4.6	f. Quantities and Cost Estimates			8			8	\$ 1,360
1.10.4.7	g. QC		12				12	\$ 2,520
1.10.5	ITS - Coordinate on new power service location			2			2	\$ 340
1.10.6	ITS - Relocate power supply and routing for new service feed		1	4		6	11	\$ 1,730
1.10.7	ITS - Voltage drop calculations and wire sizing		1	2			3	\$ 550
1.10.8	ITS - Develop quantities			2			2	\$ 340
1.10.9	ITS - Develop cost estimate			1			3	\$ 550
1.10.10	Update Quantities and Cost Estimates for Lighting, Signal, Fiber Interconnect, and ITS				16		16	\$ 2,720
1.10.11	QA/QC of PS&E Lighting, Signal, Fiber Interconnect, and ITS Design	8					8	\$ 1,920
<b>PS&amp;E and Bidding Plans Lighting, Signals, Fiber, and ITS</b>		<b>16</b>	<b>37</b>	<b>198</b>		<b>52</b>	<b>303</b>	<b>\$ 52,550</b>
<b>1.11 PS&amp;E and Bidding Specifications and Contract Documents</b>								
1.11.1	Prepare draft contract specifications (City of Olathe to provide base document) document preparation including KDOT special provisions (assumes Olathe has base and reference to KDOT specifications as needed)			48	40		88	\$ 12,760
1.11.2	Identify desired schedule outcomes and develop an A + B procurement strategy that focuses selection of the best value proposer on those outcomes.	40		40			80	\$ 16,400
1.11.3	Evaluate construction schedule alternatives and road user costs to establish specific scoring/evaluation criteria.	20		20			40	\$ 8,200
1.11.4	Develop a project procurement special provision that outlines the procurement process and defines the proposal submittal requirements and evaluation criteria.	8		8			16	\$ 3,280
1.11.5	Prepare for and participate in a project pre-bid meeting to provide an overview of the procurement process to prospective bidders.	16		16			32	\$ 6,560
1.11.6	Support the City in the evaluation and selection of the best value proposer.	16		16			32	\$ 6,560
<b>PS&amp;E and Bidding Specifications and Contract Documents</b>		<b>100</b>		<b>148</b>	<b>40</b>		<b>288</b>	<b>\$ 53,760</b>
<b>1.12 Additional Utility Coordination</b>								
1.12.1	Update and maintain preliminary Utility Master Plans (relocation scheme) and schedule through Utility Relocations (assumed through December 2020)		24			24	48	\$ 8,400
1.12.2	Assess utilities and potential conflicts based on additional 119th and Renner turn lanes design and currently planned utility relocations. Merge utility impacts with overall project coordination.		4			4	8	\$ 1,400
1.12.3	Coordinate proposed joint trench with K&W (assumes 2 additional meetings through utility relocations)	2	4		4	16	26	\$ 4,020
1.12.4	Create joint trench profile and add to roadway cross sections to aid in identifying conflicts with underground design elements (storm, sanitary, grading)		2		16	4	22	\$ 2,820
1.12.5	General correspondence with utility companies and documenting discussions, meetings, issues, and resolutions			16		16	32	\$ 5,600
1.12.6	Develop Project-Wide Status of Utilities Report (assumes creation at PS&E Plans with updated included in Bidding Services)	1	8			8	17	\$ 3,040
1.12.7	Respond to RFIs during relocation construction & General Correspondence		27			8	35	\$ 6,790
<b>Additional Utility Coordination</b>		<b>3</b>	<b>85</b>		<b>20</b>	<b>80</b>	<b>188</b>	<b>\$ 32,070</b>
<b>1.13 Quality Assurance</b>								
1.13.1	Senior technical review of PS&E Plans	24	32				56	\$ 12,480
1.13.2	Senior technical review of Bidding Plans	8	8				16	\$ 3,600
<b>Quality Assurance</b>		<b>32</b>	<b>40</b>				<b>72</b>	<b>\$ 16,080</b>

**EXHIBIT A - SA 4 - Additional Final Design Scope of Services - 3-C-026-16**

I-35 & 119th Street Interchange - Additional Final Design - SA 4 2/26/2020		Project Manager	Senior Technical Advisor	Senior Engineer	Engineer	Technician	Total	Total Costs
<b>Item of Work</b>		\$240	\$210	\$170	\$115	\$140		
<b>1.14</b>	<b>Public Involvement/Stakeholder Engagement</b>							
1.14.1	Prepare for and attend 1 presentations to Olathe City Council regarding the project. Includes PowerPoint and other exhibits as needed to supplement the presentations.	8		8		4	20	\$ 3,840
1.14.2	Plan and organize logistics for 1 public informational meeting including meeting notices, display boards, comment forms, sign in sheets, and public comment summarization.	8	8	8		4	28	\$ 5,520
<b>Public Involvement/Stakeholder Engagement</b>		<b>16</b>	<b>8</b>	<b>16</b>		<b>8</b>	<b>48</b>	<b>\$ 9,360</b>
<b>1.15</b>	<b>Meetings/Administration</b>							
1.15.1	Update and maintain a detailed design schedule and submit a copy to the City	4		16			20	\$ 3,680
1.15.2	PS&E Plans Review Meeting	8		8			16	\$ 3,280
1.15.3	Railroad Coordination (Assumes one meeting between Office Check and PS&E)	8		8			16	\$ 3,280
1.15.4	Zahner Design-Assist Subcontracting (assumes subcontracting and 3 meetings)	12		12		8	32	\$ 6,040
1.15.5	Ongoing communication with City of Olathe, KDOT and task leads (assumes 10 months from March 2020 through December 2020). Assumes meeting and preparing notes and action items	20		20			40	\$ 8,200
1.15.6	Monthly project review meetings, budget set-up and tracking, scheduling, and invoice preparation (assumes 10 months from March 2020 through December 2020)	10		10		10	30	\$ 5,500
<b>Meetings/Administration</b>		<b>62</b>		<b>74</b>		<b>18</b>	<b>154</b>	<b>\$ 29,980</b>
<b>1.16</b>	<b>2019 Build Grant Agreement Assistance</b>							
<b>1.16.1</b>	<b>Grant Agreement Template Assistance</b>							
1.16.1.1	Prepare and participate in BUILD Grant Kick-Off and update project schedule to complete BUILD Grant Agreement	8	8				16	\$ 3,600
1.16.1.2	Review draft agreement template and assist City of Olathe with comment resolution	16	16				32	\$ 7,200
1.16.1.3	Prepare and participate in BUILD agreement template review with FHWA Division, KDOT, and Olathe (assumes 4 meetings through FHWA Grant Agreement Approval)	32	32				64	\$ 14,400
<b>2019 Build Grant Agreement Assistance</b>		<b>56</b>	<b>56</b>				<b>112</b>	<b>\$ 25,200</b>
<b>1.17</b>	<b>Bidding Services</b>							
<b>Bidding Plan Updates and Specs</b>								
1.17.1	Updates per PS&E review plan comments, right-of-way acquisitions, and utility relocations	4		8	16	16	44	\$ 6,400
1.17.2	Updates for City/KDOT standard details and project specific details	2			4	4	10	\$ 1,500
1.17.3	Update construction quantities and cost estimate	2		2	4	8	16	\$ 2,400
1.17.4	Update contract specifications and contract documents per PS&E comments and per refinements to A+B special provisions	24		24			48	\$ 9,840
1.17.5	Prepare deliverables for Bidding submittal	2		2	4	4	12	\$ 1,840
<b>Final Permitting</b>								
1.17.6	Confirm and update KDHE NPDES NOI Permit Package			4	12		16	\$ 2,060
1.17.7	Prepare draft Stormwater Pollution Prevention Plan (SWPPP) for Contractor		1	2	6		9	\$ 1,240
<b>Bidding</b>								
1.17.8	Provide City with electronic (pdf) plan set and contract documents for use in electronic bidding via www.publicpurchase.com	2		2			4	\$ 820
1.17.9	Provide consultation/answer questions during bidding process	4		8	4		16	\$ 2,780
1.17.10	Arrange for, attend, and prepare meeting minutes for Pre-Bid Conference	6		6			12	\$ 2,460
1.17.11	Prepare written addenda to bidding documents as required or requested. Assumes only minor plan or specification revisions.	2		8	8	4	22	\$ 3,320
1.17.12	Assist City in analyzing bids and making recommendation for award of construction contract	2		4	2		8	\$ 1,390
<b>Bidding Services</b>		<b>50</b>	<b>1</b>	<b>70</b>	<b>60</b>	<b>36</b>	<b>217</b>	<b>\$ 36,050</b>
<b>Total</b>		<b>397</b>	<b>317</b>	<b>1089</b>	<b>1044</b>	<b>837</b>	<b>3684</b>	<b>\$ 584,220</b>
<b>Fee Summary</b>								
<b>Labor:</b>		Project Manager @ \$240/hour		95,280				
		Senior Technical Advisor @ \$210/hour		66,570				
		Senior Engineer @ \$170/hour		185,130				
		Engineer @ \$115/hour		120,060				
		Technician @ \$140/hour		117,180				
		<b>Additional Final Design Estimated Labor Costs:</b>		<b>\$ 584,220.00</b>				
<b>Expenses:</b>		Printing/Plotting/Travel =		1,500				
		Bridge Aesthetics Design Assist (Zahner)=		70,833				
		<b>Total Expense =</b>		<b>\$ 72,333.00</b>				
		<b>Total Supplemental Agreement No. 4 =</b>		<b>\$ 656,553.00</b>				
		<b>Original Contract =</b>		<b>\$ 561,100.00</b>				
		<b>SA No. 1 =</b>		<b>\$ 903,475.00</b>				
		<b>SA No. 2 =</b>		<b>\$ 997,200.00</b>				
		<b>SA No. 3 =</b>		<b>\$ 29,391.22</b>				
		<b>Revised Upper Limit =</b>		<b>\$ 3,147,719.22</b>				



## Exhibit A

### Scope of Services, Compensation, and Schedule

Scope of Service is based on the information presented by HNTB, including the 3D model “119th-I-35\_HNTB\_jkm” as well as meetings and discussions on the scope. Fin system shall be designed at a minimum in accordance with AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries, and Traffic Signals, Sixth Edition 2013. HNTB will assist, as needed, with interpreting the AASHTO criteria for design and loading of the fin system.

The Design Assist Scope of Service under this Agreement consist of the following:

1. 4-6 Design Development meetings with the design team to refine the concepts that have been presented have been planned for. We will further the development of the CloudWall geometry, fin spacing, depth, and other variables that affect the design intent and cost.
2. Preliminary details will be developed to fully describe the system. Details will be provided to the design team to support a CD level release. A professional engineer will be engaged to review member sizing and connections, but stamped drawings and calculations are not provided until the construction phase.
3. Embeds for the concrete connection at the barrier will be specified and a quantity provided during the design assist phase. The embed will be a standard part. Embed maps will be produced at the construction phase.
4. Revised budgets for the construction phase will be presented at the halfway point of the design assist. A full proposal for the supply of the scope will be presented at the conclusion of the design assist.
5. A full-scale mockup will be presented at our Kansas City facility. The mockup is to consist of 4 fins. All parts to be made from aluminum and have a high-performance paint coating applied.

**Table 1: Payment Schedule.**

Services	Description of Service	Duration	Total Contracted Fee
Design Assist Task 1	Initial Design Development Meeting and Kickoff	Within 1 week of Notice to Proceed (NTP)	\$ 15,000.00 HNTB will invoice City of Olathe for pre-payment on March 3, 2020 and will pay Zahner upon receipt of payment from City of Olathe.
Design Assist Task 2	Preliminary System Details, Initial Loads and Reactions to structure	4 weeks after Kickoff Meeting	\$ 20,000.00
Design Assist Task 3	Pricing Iteration 1. Mockup Area Selection	4 weeks after acceptance of task 2 deliverables	\$ 10,000.00
Design Assist Task 4	Embed product specification. Final Fin Parameters and Panel Options, Final Loads and Reactions	6 weeks after feedback on pricing iteration 1 and additional design parameters	\$ 15,000.00
Design Assist Task 5	Final Pricing and Mockup Review (At the Owner's discretion)	6 weeks after design task	\$ 10,833.00
		<b>Total Design Assist Not to Exceed Amount</b>	<b>\$ 70,833.00</b>

All work shall be completed by December 31, 2020.

**EXHIBIT B**  
**Fee & Rate Schedule**

**I-35 & 119<sup>th</sup> Street Interchange**  
**Additional Final Design Services**  
**HNTB Schedule of Rates**

**Rates are effective for services from**  
**January 1, 2020 through December 31, 2020**

<u>Position</u> <u>Classification</u>	<u>Hourly</u> <u>Billing Rate</u>
Group Director	\$ 300.00
Department Manager	\$ 240.00
Section Manager	\$ 195.00
Senior Project Manager	\$ 250.00
Project Manager II	\$ 205.00
Project Manager I	\$ 175.00
Senior Technical Advisor	\$ 210.00
Senior Project Engineer/Senior Squad Leader	\$ 170.00
Project Engineer/Squad Leader	\$ 145.00
Engineer III	\$ 125.00
Engineer II	\$ 115.00
Engineer I	\$ 105.00
Engineer	\$ 95.00
*Engineer Intern	\$ 80.00
*Senior Technician	\$ 140.00
*Technician III	\$ 110.00
*Technician II	\$ 90.00
*Technician I	\$ 75.00
Senior Administrative Assistant	\$ 85.00
Administrative Assistant	\$ 70.00
Office Business Manager	\$ 160.00
Project Analyst	\$ 125.00
Senior Field Representative	\$ 135.00
Field Representative	\$ 120.00
*Inspector II	\$ 90.00
*Inspector I	\$ 75.00
Public Involvement Manager	\$ 160.00

\* For any nonexempt personnel in positions marked with an asterick(\*), overtime will be billed at 1.5 times the hourly labor billing rates shown.