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

	This Supplemental	Agreement ma	de this	day	of _				
2020,	by and between the	e City of Olathe,	hereinafter	referred	to as	the	"City",	and	HNTE
Corpo	ration, hereinafter re	eferred 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 & 119th 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

	Ву:	Michael E. Copeland, Mayor
ATTEST:		
City Clerk		
(Seal)		
APPROVED AS TO FORM:		
City Attorney/Deputy City Attorney/Assist	- ant City	Attorney
	HNTB	Corporation
	Ву:	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 & 119th 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 119th Street from Renner to Strang Line and added auxiliary lanes at the interchange while modifying the 119th 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 119th Street and associated improvements on 119th 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 119th and Renner intersection, west of Renner to Winchester Street. SA3 also includes re-survey of the I-35 and 119th 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 119th 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 119th 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 119th 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.

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.

<u>Assumptions</u>

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

- a. **Project Limits** Permanent improvements to 119th 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 119th 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 119th 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 119th 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.
- I. 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 119th 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	A - SA 4 - Additional Final Design Scope of Services - 3-C-026-16							
	th Street Interchange - Additional Final Design - SA 4	Project Manager	Senior Technical Advisor	Senior Engineer	Engineer	Technician	Total	Total Costs
	Item of Work	\$240	\$210	\$170	\$115	\$140		
	nal Final Design I-35 and 119th KDOT Ramp Overlay Design Updates							
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							
1.1.4	superelevation plans sheets to accommodate ramp overlays Update proposed surface model and roadway cross sections for 4 interchange ramps		1	16 8	48 32	8 2	74 43	\$ 9,780 \$ 5,530
	I-35 and 119th KDOT Ramp Overlay Design Updates	4	3	25	92	26	150	\$ 20,060
1.2 1.2.1	Olathe Gateway (MaeGrace) Development Coordination and Design Updates City/Developer coordination and concept exhibit to confirm limits of improvements	8			8	4	20	\$ 3,400
	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							2,122
1.2.2	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
	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							
1.2.5 1.2.6	sheets and revisions to 4 plan sheets) Update intersection detail sheets for 119th Street and Renner Road Intersection			8 4	16 24	8 4	32 32	\$ 4,320 \$ 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			,		,	- 02	Ψ 1,000
1.2.7	construct notes on plan sheets, update drainage area map)	2		20	40	12	74	\$ 10,160
	Olathe Gateway storm drainage design (review as-builts, determine drainage areas, space curb inlets, lay out pipe							
1.2.8	network/outlets/tie-ins, perform storm sewer pipe calculations, develop pipe profiles, assess utility impacts, incorporate construct notes into roadway plan sheets, update draiange area							
1.2.9	map) Prepare and Update Traffic Signal Modification Plan (119th Street and Barney Blvd.)	2		4 8	16	4	26 12	\$ 3,560 \$ 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 Olathe Gateway (MaeGrace) Development Coordination and Design Updates	13		2	8 140	4 50	14 263	\$ 1,820 \$ 36,420
4.0		13		- 00	140	30	203	\$ 30,420
1.3 1.3.1	PS&E Plans Roadway Design and Plan Development 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 Update roadway summaries of quantities, recapitulation of quantities per Office Check	2		8		16	26	\$ 4,080
1.3.5 1.3.6	comments Update construction cost estimate per Office Check Comments		4	8	16 8		24 12	\$ 3,200 \$ 1,760
1.3.0	PS&E Plans Roadway Design and Plan Development	12	4	48	80	44	188	\$ 1,760 \$ 27,240
1.4	PS&E Plans Drainage and Erosion Control Design							
1.4.1	Drainage Address Office Check comments and update for PS&E plans	1		4	8	6	19	\$ 2,680
1.4.2 1.4.3	Make final updates/revisions to drainage plan and profile sheets Assemble, update and finalize City/other standard and special details to include in plans			4	8 2	8	20 6	\$ 2,720 \$ 790
1.4.4 1.4.5	Update and finalize storm sewer calculation table Update drainage quantity tables			4	4 8	4 2	8	\$ 1,020 \$ 1,880
1.4.6	Plan consistency check (plans, pipe profiles, DA map)			2	4	2	6	\$ 800
1.4.7	Erosion Control Finalize phased erosion and sediment control design (includes additional for Olathe			_		_		\$ -
1.4.8	Gateway Development) Update erosion and sediment control quantities and cost estimate			8 2	16 4	8 1	32 7	\$ 4,320 \$ 940
1.4.9	Finalize erosion and sediment control details PS&E Plans Drainage and Erosion Control Design	1		24	2 56	2 35	4 116	\$ 510 \$ 15,660
1.5	Johnson County Wastewater (JCW) Design and Plan Development							
1.5.1 1.5.2	Meetings / Coordination (client & owner) Cover Sheet	2		2 2	4	8	4 14	\$ 820 \$ 1,920
1.5.3	Plan & Profile Sheets	2		6	8 2	16	32	\$ 4,660
1.5.4 1.5.5	Standard Details Quantities and Cost Estimate	2		2	4	2	8	\$ 510 \$ 1,280
	Johnson County Wastewater (JCW) Design and Plan Development	6		12	18	26	62	\$ 9,190
1.6 1.6.1	Olathe Water Design and Plan Development 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							
1.0.2	road and storm updates at Olathe Gateway Development (assumes 265 linear feet)			2	8		10	\$ 1,260
	Horizontal and Vertical design of 8" and 16" mains relocation along north side of 110th just							0.500
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				40			
	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
1.6.3 1.6.4 1.6.5	east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Waterline Connection Details (assumes 3)	1		4 2 4	16 16 4	16 8	34 17	\$ 2,520 \$ 4,420 \$ 2,500
1.6.4	east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Water	1 1		2	16		34	\$ 4,420
1.6.4 1.6.5	east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Waterline Connection Details (assumes 3) Address Office Check Waterline comments and update plan, profile, and connection details for PS&E Submittal Assemble, update and finalize Olathe Standard Waterline Detail sheets for Office Check			2	16 4	8	34 17 13	\$ 4,420 \$ 2,500 \$ 1,820
1.6.4 1.6.5 1.6.6	east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Waterline Connection Details (assumes 3) Address Office Check Waterline comments and update plan, profile, and connection details for PS&E submittal Assemble, update and finalize Olathe Standard Waterline Detail sheets for Office Check and PS&E submittals Olathe Water Quantities and Cost Estimate for Office Check and PS&E Submittals	1 2		2 4	16 4 4 2 4	8 8 2	34 17 13 4 8	\$ 4,420 \$ 2,500 \$ 1,820 \$ 510 \$ 1,280
1.6.4 1.6.5 1.6.6 1.6.7 1.6.8	east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Waterline Connection Details (assumes 3) Address Office Check Waterline comments and update plan, profile, and connection details for PS&E Submittal Assemble, update and finalize Olathe Standard Waterline Detail sheets for Office Check and PS&E submittals Olathe Water Quantities and Cost Estimate for Office Check and PS&E Submittals Olathe Water Design and Plan Development	1		2 4	16 4 4	8	34 17 13	\$ 4,420 \$ 2,500 \$ 1,820 \$ 510
1.6.4 1.6.5 1.6.6 1.6.7 1.6.8	east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Waterline Connection Details (assumes 3) Address Office Check Waterline comments and update plan, profile, and connection details for PS&E submittal Assemble, update and finalize Olathe Standard Waterline Detail sheets for Office Check and PS&E submittals Olathe Water Quantities and Cost Estimate for Office Check and PS&E Submittals Olathe Water Design and Plan Development PS&E Plans Bridge and Wall Final Design and Aesthetics 119th Street over I-35 (EB & WB Detailed Separately)	1 2		2 4	16 4 4 2 4 54	8 8 2	34 17 13 4 8 110	\$ 4,420 \$ 2,500 \$ 1,820 \$ 510 \$ 1,280 \$ 15,130
1.6.4 1.6.5 1.6.6 1.6.7 1.6.8	east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Waterline Connection Details (assumes 3) Address Office Check Waterline comments and update plan, profile, and connection details for PS&E Submittal Assemble, update and finalize Olathe Standard Waterline Detail sheets for Office Check and PS&E submittals Olathe Water Quantities and Cost Estimate for Office Check and PS&E Submittals Olathe Water Design and Plan Development	1 2		2 4 2 16	16 4 4 2 4 54	8 8 2 34	34 17 13 4 8 110	\$ 4,420 \$ 2,500 \$ 1,820 \$ 510 \$ 1,280 \$ 15,130
1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.7 1.7.1 1.7.1.1 1.7.1.2 1.7.1.2	east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Waterline Connection Details (assumes 3) Address Office Check Waterline comments and update plan, profile, and connection details for PS&E submittal Assemble, update and finalize Olathe Standard Waterline Detail sheets for Office Check and PS&E submittals Olathe Water Quantities and Cost Estimate for Office Check and PS&E submittals Olathe Water Design and Plan Development PS&E Plans Bridge and Wall Final Design and Aesthetics 119th Street over I-35 (EB & WB Detailed Separately) Deck Design & Detailing for Aesthetic and LRFD Loading Girder Elevations Due to Aesthetic Loading Aesthetic Specifications and Aesthetic Attachment Details	1 2		2 4 2 16 14 6 30	16 4 4 2 4 54 54	8 8 2	34 17 13 4 8 110	\$ 4,420 \$ 2,500 \$ 1,820 \$ 510 \$ 15,130 \$ 4,450 \$ 3,290 \$ 21,900
1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.7.1 1.7.1.1 1.7.1.1 1.7.1.2 1.7.1.3	east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Waterline Connection Details (assumes 3) Address Office Check Waterline comments and update plan, profile, and connection details for PS&E Submittal Assemble, update and finalize Olathe Standard Waterline Detail sheets for Office Check and PS&E submittals Olathe Water Quantities and Cost Estimate for Office Check and PS&E Submittals Olathe Water Design and Plan Development PS&E Plans Bridge and Wall Final Design and Aesthetics 119th Street over I-35 (EB & WB Detailed Separately) Deck Design & Detailing for Aesthetic Autachment Details Median Barrier Capacity Check (KDOT Direction) 119th Street over I-35 (EB & WB Detailed Separately)	1 2 6		2 4 2 16 14 6	16 4 4 2 4 54 54	8 8 2 34	34 17 13 4 8 110	\$ 4,420 \$ 2,500 \$ 1,820 \$ 510 \$ 1,280 \$ 15,130 \$ 4,450 \$ 3,290
1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.7 1.7.1 1.7.1.1 1.7.1.2 1.7.1.3 1.7.1.4 1.7.1.2	east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Waterline Connection Details (assumes 3) Address Office Check Waterline comments and update plan, profile, and connection details for PS&E Submittal Assemble, update and finalize Olathe Standard Waterline Detail sheets for Office Check and PS&E submittals Olathe Water Quantities and Cost Estimate for Office Check and PS&E Submittals Olathe Water Design and Plan Development PS&E Plans Bridge and Wall Final Design and Aesthetics 119th Street over 1-35 (EB & WB Detailed Separately) Deck Design & Detailing for Aesthetic Loading Girder Elevations Due to Aesthetic Loading Aesthetic Specifications and Aesthetic Attachment Details Median Barrier Capacity Check (KIOT) Direction) 119th Street over BNSF & Old Kansas City Road (EB & WB Detailed Separately) Abutment Widening Design and Details (4 Unique Locations)	1 2 6		2 4 2 16 14 6 30 24	16 4 4 2 4 54 54 18 10 48 36	8 8 2 34 8 60	34 17 13 4 8 110 32 24 150 60	\$ 4,420 \$ 2,500 \$ 1,820 \$ 510 \$ 1,280 \$ 15,130 \$ 3,290 \$ 21,990 \$ 8,220
1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.7 1.7.1 1.7.1.1 1.7.1.2 1.7.1.3 1.7.1.4	east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Waterline Connection Details (assumes 3) Address Office Check Waterline comments and update plan, profile, and connection details for PS&E submittal Assemble, update and finalize Olathe Standard Waterline Detail sheets for Office Check and PS&E submittals Olathe Water Quantities and Cost Estimate for Office Check and PS&E submittals Olathe Water Design and Plan Development PS&E Plans Bridge and Wall Final Design and Aesthetics 119th Street over I-35 (EB & WB Detailed Separately) Deck Design & Detailing for Aesthetic Adlachment Details Median Barrier Capacity Check (KDOT Direction) 119th Street over BNSF & Old Kansas City Road (EB & WB Detailed Separately) Abutment Widening Design and Details (4 Unique Locations) Handrail Details (Developing Special Details and Design)	1 2 6		2 4 16 14 6 30 24 74	16 4 4 2 4 54 54 18 10 48 36 112	8 8 2 34 8 60 68	34 17 13 4 8 110 32 24 150 60 266	\$ 4,420 \$ 2,500 \$ 1,820 \$ 11,280 \$ 15,130 \$ 4,450 \$ 3,290 \$ 21,900 \$ 6,220 \$ 37,860 \$ 11,770
1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.7 1.7.1 1.7.1.1 1.7.1.2 1.7.1.3 1.7.1.4 1.7.2 1.7.2.1 1.7.2.2	east of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Waterline Connection Details (assumes 3) Address Office Check Waterline comments and update plan, profile, and connection details for PS&E Submittal Assemble, update and finalize Olathe Standard Waterline Detail sheets for Office Check and PS&E submittals Olathe Water Quantities and Cost Estimate for Office Check and PS&E Submittals Olathe Water Design and Plan Development PS&E Plans Bridge and Wall Final Design and Aesthetics 119th Street over I-35 (EB & WB Detailed Separately) Deck Design & Detailing for Aesthetic and LRFD Loading Girder Elevations Due to Aesthetic Loading Aesthetic Specifications and Aesthetic Attachment Details Median Barrier Capacity Check (KDDT Direction) 119th Street over BNSF & Old Kansas City Road (EB & WB Detailed Separately) Handrail Details (Developing Special Details and Design) Superstructure & Substructure Redesign (Geometry Road (EB & WB Detailed Separately)) 119th Street over BNSF & Old Kansas City Road (EB & WB Detailed Separately)	1 2 6		2 4 16 14 6 30 24 74 20 16	16 4 4 2 4 54 54 10 48 36 112 40 30	8 8 2 34 8 60 68	34 17 13 4 8 110 32 24 150 60 266	\$ 4,420 \$ 2,500 \$ 1,820 \$ 510 \$ 1,280 \$ 15,130 \$ 3,290 \$ 21,990 \$ 8,220 \$ 37,860 \$ 15,000
1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.7 1.7.1 1.7.1.1 1.7.1.2 1.7.1.3 1.7.1.4 1.7.2 1.7.2.1 1.7.2.2	aast of Renner and at conflicts east of I-35 along 119th Street (assumes 750 linear feet and only one fire hydrant relocation) Office Check Water Line Plan and Profile Sheets (plan scale 1"=20") (Assumes 3 sheets) Waterline Connection Details (assumes 3) Address Office Check Waterline comments and update plan, profile, and connection details for PS&E Submittal Assemble, update and finalize Olathe Standard Waterline Detail sheets for Office Check and PS&E submittals Olathe Water Quantities and Cost Estimate for Office Check and PS&E Submittals Olathe Water Design and Plan Development PS&E Plans Bridge and Wall Final Design and Aesthetics 119th Street over 1-35 (EB & WB Detailed Separately) Deck Design & Detailing for Aesthetic and ILRFD Loading Girder Elevations Due to Aesthetic Loading Aesthetic Specifications and Aesthetic Attachment Details Median Barrier Capacity Check (KDOT Direction) 119th Street over BNSF & Old Kansas City Road (EB & WB Detailed Separately) Abutment Widening Design and Details (4 Unique Locations) Handrail Details (Developing Special Details and Design) Superstructure & Substructure Redesign (Geometry Change) 119th Street over BNSF & Old Kansas City Road (EB & WB Detailed Separately) General Details Non-Standard CSB & Transition Details (5 Sheets)	1 2 6		2 4 16 14 6 30 24 74 20 16 10	16 4 4 2 4 54 54 18 10 48 36 112 40 30 130	8 8 2 34 8 60 68 50 40	34 17 13 4 8 110 32 24 150 60 266	\$ 4,420 \$ 2,500 \$ 1,820 \$ 15,130 \$ 15,130 \$ 3,290 \$ 21,900 \$ 6,220 \$ 37,860 \$ 11,770 \$ 31,950

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1.7.4.1 Develop a development of the process of the	p and provide structural design parameters, fin geometry, and loading criteria for prement of project specific fins nal City, KDOT & Aesthetic (Zahner) Meetings (assumes 3 people for 4 meetings) nal City, KDOT & Aesthetic (Zahner) Meetings (assumes 10 months Design-Assist) is Comments through PS&E and Final Check **Bridge Aesthetics Zahner Design-Assist** **PS&E Plans Bridge and Wall Final Design and Aesthetics** **PS&E Plans Bridge and Wall Final Design and Aesthetics** **PS&E Plans Bridge and Wall Final Design and Aesthetics** **Inal Bidding Plans Corridor Aesthetics/Landscape Design** City in preparing KDOT Non-Highway Use of Right-of-Way Permit application per including exhibits showing existing and proposed aesthetics within KDOT "zone of ce" **s comments and finalize KDOT Non-Highway Use of ROW Permit package andscape Plan Sheets (9) **rick Layout Sheets (9)** *rick Layout Sheets (9)** *rick Layout Sheets (1)** **andscape Details and Schedule Sheets (2)* **pecifications for Landscape and Brick Pavers* **ost Estimate** **PS&E and Bidding Plans Corridor Aesthetics/Landscape Design** **nd Bidding Plans Traffic Engineering** **s Traffic Engineering Comments** **s signing details, standards, and quantities and signing quantity tables (includes post ze, and length determination) **pavement marking quantities and pavement marking quantity tables traffic control plans to address Traffic Engineering comments (includes eration for impacts of I-35 bridge demo) **traffic detour plans for proposed closures**	2 2	12 10 16 54 54 54 2 2 2 1 1 1 2 9	36 10 24 86 328	16	24 254 8 4 42	48 20 64 164 1020	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,640 3,800 10,800 29,320 148,820
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1.9. PS&E and 1.9.1 Address T 1.9.2 Update sig type, size, 1.9.3 Update ps 1.9.4 Update size type, size, 1.9.4 Update translated to 1.9.5 Update translated to 1.9.5 Update translated tran	PS&E and Bidding Plans Corridor Aesthetics/Landscape Design and Bidding Plans Traffic Engineering so Traffic Engineering Comments so signing details, standards, and quantities and signing quantity tables (includes post zee, and length determination) pavement marking quantities and pavement marking quantity tables traffic control plans to address Traffic Engineering comments (includes erration for impacts of I-35 bridge demo) traffic detour plans for proposed closures	4	9			10	12	\$	1,820
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1.9.2 Update signer, size, 1.9.3 Update part spee, size, 1.9.4 Update translation of the part speed of	signing details, standards, and quantities and signing quantity tables (includes post ze, and length determination) pavement marking quantities and pavement marking quantity tables traffic control plans to address Traffic Engineering comments (includes eration for impacts of I-35 bridge demo) traffic detour plans for proposed closures								
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1.9.4 Update traconsideral 1.9.5 Update traconsideral 1.9.6 Update tra 1.9.6 Update tra 1.9.7 Update an 1.10 PS&E and I 1.10.1 Address C 1.10.2 Lighting La 1.10.3 Prepare al 1.10.4 Aesthetic I 1.10.4.1 a. Lightir 1.10.4.2 b. Specia 1.10.4.3 c. Lightir 1.10.4.4 d. Specia 1.10.4.5 c. Meetin 1.10.4.6 f. Quanti 1.10.4.7 g. QC 1.10.5 ITS - Coor 1.10.6 ITS - Reio 1.10.7 ITS - Volta 1.10.8 ITS - Deve 1.10.1 QA/QC of 1.10.1 QA/QC of 1.11.1 PS&E and I 1.11.2 Identify de focuses se expenses exp	rtaffic control plans to address Traffic Engineering comments (includes eration for impacts of I-35 bridge demo) rtaffic detour plans for proposed closures			4	24	4	32	\$	4,000
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1.9.7 Update an 1.10 PS&E and I 1.10.1 Address C 1.10.2 Lighting La 1.10.3 Prepare at 1.10.4 Aesthetic I 1.10.4.1 a. Lightin 1.10.4.2 b. Specia 1.10.4.3 c. Lightin 1.10.4.5 c. Meetin 1.10.4.6 f. Quanti 1.10.4.7 g. QC 1.10.5 ITS - Coor 1.10.6 ITS - Relo 1.10.7 ITS - Volta 1.10.9 ITS - Deve 1.10.9 ITS - Deve 1.10.1 Update Qc 1.10.1 Update Qc 1.10.1 Update Qc 1.11.1 PS&E and I 1.11.1 PS&E and I 1.11.1 PS&E and I 1.11.1 PS&E and I 1.11.2 Support the 1.11.3 Support the 1.11.5 Support the 1.11.6 Support the 1.11.6 Support the 1.11.1 Update an I 1.11.1 Support the 1.11.2 Additional			1	2	8	8	19	\$	2,590
1.10. PS&E and 1.10.1 Address C 1.10.2 Lighting	e traffic control detail sheets, standards, and quantities e and Finalize TMP based on Traffic Engineering Comments		8	4 24	24	2 8	31 40	\$	3,930 6,880
1.10.1 Address C 1.10.2 Lighting Li 1.10.3 Prepare ai 1.10.4 Aesthetic C 1.10.4.1 a. Lightir 1.10.4.2 b. Speci 1.10.4.3 c. Lightir 1.10.4.4 d. Speci 1.10.4.5 c. Meetir 1.10.4.6 f. Quanti 1.10.4.7 g. QC 1.10.5 ITS - Coor 1.10.6 ITS - Relo 1.10.7 ITS - Volte 1.10.9 ITS - Deve 1.10.9 ITS - Deve 1.10.1 QA/QC of 1.10.1 QA/QC of 1.10.1 QA/QC of 1.10.1 PS&E and 1.11.1 Sevaluate cooring/ev 1.11.2 Sevaluate cooring/ev 1.11.3 Support th 1.11.5 Support th 1.11.6 Support th 1.11.2 Additional	PS&E and Bidding Plans Traffic Engineering		20	58	92	42	212	\$	30,520
1.10.1 Address C 1.10.2 Lighting Li 1.10.3 Prepare ai 1.10.4 Aesthetic C 1.10.4.1 a. Lightir 1.10.4.2 b. Speci 1.10.4.3 c. Lightir 1.10.4.4 d. Speci 1.10.4.5 c. Meetir 1.10.4.6 f. Quanti 1.10.4.7 g. QC 1.10.5 ITS - Coor 1.10.6 ITS - Relo 1.10.7 ITS - Volte 1.10.9 ITS - Deve 1.10.1 QA/QC of 1.11.1 PS&E and 1.11.1 Separe defines the 1.11.2 Support the 1.11.5 Support the 1.11.6 Support the 1.11.1 Additional	nd Bidding Plans Lighting, Signals, Fiber, and ITS								
1.10.3 Prepare at 1.10.4 Aesthetic I 1.10.4.1 a. Lightir 1.10.4.2 b. Specis I.10.4.3 c. Lightir 1.10.4.3 c. Lightir 1.10.4.4 d. Specs 1.10.4.5 e. Meetin 1.10.4.7 g. QC 1.10.5 ITS - Coor 1.10.6 ITS - Reio 1.10.7 ITS - Volte I.10.8 ITS - Deve 1.10.9 ITS - Deve 1.10.1 QA/QC of 1.11.1 QA/Q	s Office Check Comments and make final updates for PS&E and bid plans	8		24			32	\$	6,000
1.10.4 Aesthetic I 1.10.4.1 a. Lightir 1.10.4.2 b. Specic 1.10.4.3 c. Lightir 1.10.4.4 d. Specs 1.10.4.5 e. Meetir 1.10.4.6 f. Quanti 1.10.4.7 g. QC 1.10.5 ITS - Coor 1.10.6 ITS - Relo 1.10.7 ITS - Volte 1.10.8 ITS - Deve 1.10.10 Update Qt 1.10.11 QA/QC of 1.11.1 PS&E and Prepare di 1.11.2 Identify de focuses se 1.11.3 Evaluate c 1.11.3 Evaluate c 1.11.5 Prepare for procureme 1.11.6 Support in 1.11.6 Support in 1.11.2 Additional	g Layout Plans Modifications on Renner Road north of 119th Street			4		2	6	\$	960
1.10.4.1 a. Lightir	e and Update Traffic Signal Modification Plan (119th Street and Strang Line Road)			16		4	20	\$	3,280
1.10.4.2 b. Specia	tic Lighting for I-35 bridges							\$	-
1.10.4.3 c. Lightir 1.10.4.4 d. Specs 1.10.4.5 e. Meetir 1.10.4.6 f. Quanti 1.10.4.7 g. QC 1.10.5 ITS - Coor 1.10.6 ITS - Relo 1.10.7 ITS - Volte 1.10.8 ITS - Deve 1.10.9 ITS - Deve 1.10.10 Update Qt 1.10.11 QA/QC of 1.11 PS&E and Prepare di preparatio KDOT spe 1.11.1 glade General de Gouses se sooring/ev 1.11.2 Evaluate c. Sooring/ev 1.11.4 Develop a defines the 1.11.5 Prepare fc procureme 1.11.6 Support the	hting System Design & Plan Production ecial Details		4	40 40		16 16	60 60	\$	9,880 9,880
1.10.4.5 e. Meetir 1.10.4.6 f. Quanti 1.10.4.6 f. Quanti 1.10.4.7 g. QC 1.10.5 ITS - Coor 1.10.6 ITS - Reloi 1.15 - Reloi 1.15 - Reloi 1.10.7 ITS - Volta 1.10.8 ITS - Deve 1.10.9 ITS - Deve 1.10.10 Update Qc 1.10.11 QA/QC of 1.10.11 QA/QC of 1.11.1 PS&E and 1.11.1 Psear and preparatio KDOT spe Included Includ	hting Controls for Color Changing		4	16		8	28	\$	4,680
1.10.4.6 f. Quanti	ecs and/or Special Provisions		8 2	16 6			24 8	\$	4,400 1,440
1.10.5 ITS - Coor	antities and Cost Estimates			8			8	\$	1,360
1.10.6 ITS - Relo	Coordinate on new power service location		12	2			12	\$	2,520 340
1.10.8 ITS - Deve	elocate power supply and routing for new service feed		1	4		6	11	\$	1,730
1.10.9 ITS - Devel	oltage drop calculations and wire sizing		1	2 2			3 2	\$	550 340
1.10.11 QA/QC of 1.11 PS&E and Prepare d Prepare d preparatio KDOT spe Identify de focuses sc 1.11.3 Evaluate c scoring/ev 1.11.4 Develop a defines the 1.11.5 Prepare fc procureme 1.11.6 Support th 1.12 Additional	evelop cost estimate		1	2			3	\$	550
1.11 PS&E and 1 1.11.1 Prepare di Prepare di Prepare di KDOT spe Identify de focuses se coring/ev 1.11.3 Evaluate c scoring/ev 1.11.4 Develop a defines th 1.11.5 Prepare fo procureme 1.11.6 Support th 1.12 Additional Update an Update an 1.11.1 Update an 1.11.1 PS&E and Inc. 1.11.1	Quantities and Cost Estimates for Lighting, Signal, Fiber Interconnect, and ITS of PS&E Lighting, Signal, Fiber Interconnect, and ITS Design	8		16			16 8	\$	2,720 1,920
1.11.1 Prepare di preparatio KDOT spe Identify de focuses se sooring/ev 1.11.2 Evaluate c scoring/ev 1.11.4 Develop a defines th 1.11.5 Prepare fo procureme 1.11.6 Support th 1.12 Additional 1.12.1 Update an Update an Inferiore prepare for procureme 1.11.6 Update an Update an Inferiore for prepare for procureme 1.11.6 Update an Update an Inferiore for prepare for procureme 1.11.1 Update an Inferiore for prepare for procureme 1.11.1 Update an Inferiore for prepare for pr	PS&E and Bidding Plans Lighting, Signals, Fiber, and ITS		37	198		52	303	\$	52,550
1.11.1 Prepare di preparatio KDOT spe Identify de focuses se sooring/ev 1.11.2 Evaluate c scoring/ev 1.11.4 Develop a defines th 1.11.5 Prepare fo procureme 1.11.6 Support th 1.12 Additional 1.12.1 Update an Inceptation (RD Prepare for procureme 1.11.6 Support th 1.12 Additional 1.12.1 Update an Inceptation (RD Prepare for procureme 1.11.6 Support th 1.12.1 Additional 1.12.1 Update an Inceptation (RD Prepare for prepare for procureme 1.11.6 Support the Inceptation (RD Prepare for p	ad Didding Consistentians and Contract Description								
1.11.2 Identify de focuses se	nd Bidding Specifications and Contract Documents e draft contract specifications (City of Olathe to provide base document) document								
1.11.2 Identify de focuses se 1.11.3 Evaluate c scoring/ev 1.11.4 Develop a defines th 1.11.5 Prepare fc procureme 1.11.6 Support th 1.12 Additional 1.12 Update an	ation including KDOT special provisions (assumes Olathe has base and reference to			40	40		00		40.700
1.11.2 focuses se 1.11.3 Evaluate c scoring/ev 1.11.4 Develop a defines the 1.11.5 Prepare fc procureme 1.11.6 Support th 1.12 Additional	specifications as needed) desired schedule outcomes and develop an A + B procurement strategy that			48	40		88	\$	12,760
1.11.3 scoring/ev 1.11.4 Develop a defines the function of th	s selection of the best value proposer on those outcomes.	40		40			80	\$	16,400
1.11.4 defines the 1.11.5 Prepare fc procureme 1.11.6 Support th 1.12 Additional 1.12 Update an	te construction schedule alternatives and road user costs to establish specific y/evaluation criteria.	20		20			40	\$	8,200
1.11.5 Prepare for procureme 1.11.6 Support th 1.12 Additional Update an	p a project procurement special provision that outlines the procurement process and							Ť	
1.11.6 Support th 1.12 Additional 1.12 Update an	the proposal submittal requirements and evaluation criteria. e for and participate in a project pre-bid meeting to provide an overview of the	8		8			16	\$	3,280
1.12 Additional Update an	ement process to prospective bidders.	16		16			32	\$	6,560
1 12 1 Update an	t the City in the evaluation and selection of the best value proposer. PS&E and Bidding Specifications and Contract Documents	16 100		16 148	40		32 288	\$	6,560 53,760
1 12 1 Update an	-			. 40			_00	Ť	23,730
	nal Utility Coordination and maintain preliminary Utility Master Plans (relocation scheme) and schedule								
	n Utility Relocations (assumed through December 2020)	<u></u>	24			24	48	\$	8,400
	utilities and potential conflicts based on additional 119th and Renner turn lanes								
1.12.2 design and coordination	and compaths along a still to a long time. At the still to the still the still to the still the		4			4	8	\$	1,400
1 12 3 Coordinate	and currently planned utility relocations. Merge utility impacts with overall project nation.	_							
relocations	nation. nate proposed joint trench with K&W (assumes 2 additional meetings through utility	2	4		4	16	26	\$	4,020
1.12.4 with under	nation. nate proposed joint trench with K&W (assumes 2 additional meetings through utility ions)		2		16	4	22	\$	2,820
	nation. anate proposed joint trench with K&W (assumes 2 additional meetings through utility ons) joint trench profile and add to roadway cross sections to aid in identifying conflicts deground design elements (storm, sanitary, grading)		16			16	32	s	5,600
Develop P	nation. nate proposed joint trench with K&W (assumes 2 additional meetings through utility ions) joint trench profile and add to roadway cross sections to aid in identifying conflicts deground design elements (storm, sanitary, grading) al correspondence with utility companies and documenting discussions, meetings,						32	1	
	nation. nate proposed joint trench with K&W (assumes 2 additional meetings through utility lons) joint trench profile and add to roadway cross sections to aid in identifying conflicts degrational design elements (storm, sanitary, grading) all correspondence with utility companies and documenting discussions, meetings, and resolutions project-Wide Status of Utilities Report (assumes creation at PS&E Plans with	1	8 27			<u>8</u> 8	17	\$	3,040
1.12.7 Respond t	nation. nate proposed joint trench with K&W (assumes 2 additional meetings through utility ions) joint trench profile and add to roadway cross sections to aid in identifying conflicts derground design elements (storm, sanitary, grading) al correspondence with utility companies and documenting discussions, meetings, and resolutions p Project-Wide Status of Utilities Report (assumes creation at PS&E Plans with d included in Bidding Services)		85		20	80 80	35 188	\$	6,790 32,070
	nation. nate proposed joint trench with K&W (assumes 2 additional meetings through utility lons) joint trench profile and add to roadway cross sections to aid in identifying conflicts degrational design elements (storm, sanitary, grading) all correspondence with utility companies and documenting discussions, meetings, and resolutions project-Wide Status of Utilities Report (assumes creation at PS&E Plans with	3							
	nation. nate proposed joint trench with K&W (assumes 2 additional meetings through utility tons) joint trench profile and add to roadway cross sections to aid in identifying conflicts deerground design elements (storm, sanitary, grading) al correspondence with utility companies and documenting discussions, meetings, and resolutions p Project-Wide Status of Utilities Report (assumes creation at PS&E Plans with d included in Bidding Services) and to RFI's during relocation construction & General Correspondence Additional Utility Coordination	3					56	\$	12,480
1.13.2 Senior tec	nation. nate proposed joint trench with K&W (assumes 2 additional meetings through utility ons) joint trench profile and add to roadway cross sections to aid in identifying conflicts degrational design elements (storm, sanitary, grading) al correspondence with utility companies and documenting discussions, meetings, and resolutions p Project-Wide Status of Utilities Report (assumes creation at PS&E Plans with d included in Bidding Services) dt to RFI's during relocation construction & General Correspondence	24	32		'		16	\$	3,600

2/26/2020	1 - SA 4 - Additional Final Design Scope of Services - 3-C-026-16 th Street Interchange - Additional Final Design - SA 4	Project Manager	Senior Technical Advisor	Senior Engineer	Engineer	Technician	Total	То	tal Costs
	Item of Work	\$240	\$210	\$170	\$115	\$140			
444	D. h. L.								
	Public Involvement/Stakeholder Engagement Prepare for and attend 1 presentations to Olathe City Council regarding the project.								
1.14.1	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. Public Involvement/Stakeholder Engagement	8 16	8	8 16		4 8	28 48	\$	5,520
	Public involvement/Stakeholder Engagement	16	0	16		0	40	\$	9,360
1.15	Meetings/Administration								
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 1.15.3	PS&E Plans Review Meeting Railroad Coordination (Assumes one meeting between Office Check and PS&E)	8		8			16 16	\$	3,280
1.15.4	Zahner Design-Assist Subcontracting (assumes subcontracting and 3 meetings)	12		12		8	32	\$	3,280 6,040
	Ongoing communication with City of Olathe, KDOT and task leads (assumes 10 months					-		Ť	-,
1.15.5	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
	Meetings/Administration	62		74		18	154	\$	29,980
								,	
	2019 Build Grant Agreement Assistance								
1.16.1	Grant Agreement Template Assistance								
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
	Prepare and participate in BUILD agreement template review with FHWA Division, KDOT,							Ť	.,
1.16.1.3	and Olathe (assumes 4 meetings through FHWA Grant Agreement Approval)	32	32				64	\$	14,400
	2019 Build Grant Agreement Assistance	56	56				112	\$	25,200
1.17	Bidding Services								
	Bidding Plan Updates and Specs								
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 Update contract specifications and contract documents per PS&E comments and per	2		2	4	8	16	\$	2,400
1.17.4	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
	Final Permitting								
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
	Bidding Provide City with electronic (pdf) plan set and contract documents for use in electronic							+	
1.17.8	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	s	2 220
				0	0	4	22	ų.	3,320
1.17.12	Assist City in analyzing bids and making recommendation for award of construction contract	2		4	2		8	\$	1,390
	Bidding Services	50	1	70	60	36	217	\$	36,050
	Total	007	047	4000	4044	007	0004	•	E0 4 000
	Total	397	317	1089	1044	837	3684	\$	584,220
ee Sumn	Labor:				@ \$240/bour	05.000			
	Labor:		Senior Techr Sen	ior Engineer Engineer Technician		95,280 66,570 185,130 120,060 117,180 \$ 584,220.00			
	Expenses:	Additional	Senior Techr Sen	ical Advisor ior Engineer Engineer Technician Estimated L Printing/Plot s Design Ass	@ \$210/hour @ \$170/hour @ \$115/hour @ \$140/hour	66,570 185,130 120,060 117,180 \$ 584,220.00 1,500 70,833			
		Additional Bri	Senior Techr Sen Final Design	nical Advisor ior Engineer Engineer Technician Estimated L Printing/Plot s Design Ass	@ \$210/hour @ \$170/hour @ \$115/hour @ \$140/hour abor Costs: ting/Travel = sist (Zahner)=	66,570 185,130 120,060 117,180 \$ 584,220.00 1,500 70,833 \$ 72,333.00			
		Additional Bri	Senior Techr Sen Final Design	ical Advisor ior Engineer Engineer Technician Estimated L Printing/Plot s Design Ass	© \$210/hour @ \$170/hour @ \$170/hour @ \$145/hour abor Costs: ting/Travel = iist (Zahner)= Il Expense = nent No. 4 =	66,570 185,130 120,060 117,180 \$ 584,220.00 1,500 70,833 \$ 72,333.00 \$ 656,553.00 \$ 561,100.00			
		Additional Bri	Senior Techr Sen Final Design	ical Advisor ior Engineer Engineer Technician Estimated L Printing/Plot s Design Ass	@ \$210/hour @ \$170/hour @ \$170/hour @ \$115/hour abor Costs: ting/Travel = ist (Zahner)= il Expense = ment No. 4 = il Contract = SA No. 1 =	66,570 185,130 120,060 117,180 \$ 584,220.00 1,500 70,833 \$ 72,333.00 \$ 656,553.00 \$ 561,100.00 \$ 903,475.00			
		Additional Bri	Senior Techr Sen Final Design	ical Advisor ior Engineer Engineer Technician Estimated L Printing/Plot s Design Ass	@ \$210/hour @ \$170/hour @ \$170/hour @ \$140/hour abor Costs: ting/Travel = iist (Zahner)= il Expense = ment No. 4 = il Contract = SA No. 1 = SA No. 2 =	66,570 185,130 120,060 117,180 \$ 584,220.00 1,500 70,833 \$ 72,333.00 \$ 656,553.00 \$ 561,100.00 \$ 993,475.00 \$ 997,200.00			
		Additional Bri	Senior Techr Sen Final Design	nical Advisor. ior Engineer Engineer Technician Estimated L Printing/Plot s Design Ass Tota Origina	@ \$210/hour @ \$170/hour @ \$170/hour @ \$140/hour @ \$140/hour abor Costs: ting/Travel = isist (Zahner)= Il Expense = ment No. 4 = Il Contract = SA No. 1 = SA No. 2 = SA No. 3 =	66,570 185,130 120,060 117,180 \$ 584,220.00 1,500 70,833 \$ 72,333.00 \$ 656,553.00 \$ 561,100.00 \$ 993,475.00 \$ 997,200.00			

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	\$ 20,000.00
Design Assist	Pricing Iteration 1. Mockup Area	Meeting 4 weeks after acceptance	\$ 10,000.00
Task 3	Selection 1. Wookup Area Selection	of task 2 deliverables	Ψ 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
		Total Design Assist Not to Exceed Amount	\$ 70,833.00

All work shall be completed by December 31, 2020.

EXHIBIT B

Fee & Rate Schedule

I-35 & 119th Street Interchange Additional Final Design Services HNTB Schedule of Rates

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

January 1, 2020 through December 31, 2020							
Position	Hourly						
Classification	<u>Billir</u>	ng Rate					
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.