

Village of Orland Park
143rd Street Widening - Wolf Road to Southwest Highway
Phase II Design Engineering Services
Section No. 14-00072-00-WR
Cook County

Supplement No. 2

6/26/2025

Design Scopes and Manhours

- Overall Scope of Services
- Manhour Summary Forms
- Subconsultant Scopes and Manhours



TranSystems

2400 Pershing Road, Suite 400
Kansas City, MO 64108
Tel 816 329 8600

www.transystems.com

143rd Street Widening - Wolf Road to Southwest Highway
Phase II Design Engineering Services
Section No. 14-00072-00-WR
Supplement No. 2
June 26, 2025

EXHIBIT A – SCOPE OF ENGINEERING SERVICES

The following scope of services is the second change order to the original Phase II design engineering services contract approved in October 2023 and Change Order #1 approved in March 2025 for the proposed improvements along 143rd Street (IL Route 7) from Wolf Road to Southwest Highway in the Village of Orland Park (Village), Cook County for a total project length of 1.7 miles. This change order will include water main design within the reconstruction limits and the creation of new tasks:

- Task 22 (New Task) – 143rd Street Watermain Design (Contract 1 Limits)
- Task 23 (New Task) – 143rd Street Watermain Design (Contract 2 Limits)

Our understanding is the Village desires to incorporate the design of new 16-inch water main along 143rd Street from Wolf Road to 108th Avenue and new 12-inch Village watermain along 143rd Street from 108th Avenue to Beacon Avenue, which are within the limits of the roadway reconstruction project for Contract 1 (West Avenue to Southwest Highway) and Contract 2 (Wolf Road to West Avenue). This task also includes relocation of existing Village watermain that is in conflict with the proposed roadway reconstruction. The Village would like all water main crossing 143rd Street or other major routes to be replaced. The total approximate length of new and relocated watermain is 10,900 LF with the breakdown between Contract 1 and Contract 2:

- Contract 1 – 2,800 feet
- Contract 2 – 8,100 feet

With the new watermain along 143rd Street, connection to the existing watermain along adjacent side streets will be included. Within the Old Orland area, we anticipate the connection to be 50-feet south of 143rd Street. Local service connections will also be made. The Village stated that there are no lead service lines within the Contract 1 or Contract 2 limits.

The following is a summary of the proposed scope of work and contract modifications that are included in Change Order 2. Subconsultant Christopher B. Burke Engineering, Ltd. will be assisting with the watermain design. CBBEL's level of effort is documented in Exhibit B (Manhour Estimate) and Exhibit B1 (Contract Plans Manhours Estimates).

EXHIBIT A – SCOPE OF ENGINEERING SERVICES – SUPPLEMENT No. 2**143rd Street Widening – Phase II Design Engineering Services****22. 143rd Street Watermain Design (Contract 1)**

This task will include the design of new 12-inch watermain along 143rd Street and “in-conflict” watermain within the Contract 1 limits of construction. The watermain design will be incorporated into the roadway contract plans, specifications and estimates. Separate plan sheets will be created for the water main and other utility relocations. Refer to Exhibit B for lists of tasks included.

- A. Preliminary Design (75%+)
This sub-task consists of completing the preliminary design of the watermain for inclusion in the preliminary roadway design package. It will include advancing the design to a preliminary plan submittal and will include contract plans, specifications and estimates. Refer to Exhibit B1 for listing of tasks included.
- B. Contract Plans - Pre-Final (95%) / Final (100%)
This sub-task consists of completing the design of the watermain for inclusion in the pre-final and final roadway design package. It will include advancing the design to a prefinal and final plan submittals and will include a specifications and estimates. It is anticipated that the contract package will be let through IDOT District 1 Local Roads. Refer to Exhibit B1 for listing of tasks included.
- C. Permitting
This sub-task includes preparing and submitting an IEPA permit application for watermain construction.
- D. Coordination Meetings
This sub-task includes pre-meeting preparation, attendance, and preparation of meeting minutes for:
 - Meet with Village Public Works (2 meetings)

23. 143rd Street Water Main Design (Contract 2)

This task will include the design of new 12-inch watermain along 143rd Street and “in-conflict” watermain within the Contract 2 limits of construction. Separate utility plan sheets will be created for the water main and other utility relocations. The watermain design will be incorporated into the roadway contract plans, specifications and estimates. Refer to Exhibit B for lists of tasks included.

- A. Preliminary Design (75%+)
This sub-task consists of completing the preliminary design of the watermain for inclusion in the preliminary roadway design package. It will include advancing the design to a preliminary plan submittal and will include contract plans, specifications and estimates. Refer to Exhibit B1 for listing of tasks included.
- B. Contract Plans - Pre-Final (95%) / Final (100%)
This sub-task consists of completing the design of the watermain for inclusion in the pre-final and final roadway design package. It will include advancing the design to a prefinal and final plan submittals and will include a specifications and estimates. It is anticipated that the contract package will be let through IDOT District 1 Local Roads. Refer to Exhibit B1 for listing of tasks included.

EXHIBIT A – SCOPE OF ENGINEERING SERVICES – SUPPLEMENT No. 2

143rd Street Widening – Phase II Design Engineering Services

- C. Permitting
This sub-task includes preparing and submitting an IEPA permit application for watermain construction.
- D. Coordination
This sub-task includes pre-meeting preparation, attendance, and preparation of meeting minutes for:
 - Meet with Village Public Works (2 meetings)

Assumptions

The following tasks or items were not included in this scope of services:

- A. Subsurface Utility Engineering (SUE).
- B. Design of private utility relocation plans for Contract 1 and Contract 2.
 - a. However, the contract plans will include the design of 2-4” conduits with associated handholes along one side of the project for future use by the Village.
- C. The inclusion of additional easements/parcels for relocation of the watermain or other Village utilities.
- D. Phase III Design Support Services for Contract 1 and Contract 2.

Manhour Summary Forms

143rd Street Widening - Wolf Road to Southwest Highway
Section 14-00072-00-WR
Phase II Design Engineering Services - Change Order #2
EXHIBIT B - Manhour Estimate

<u>Task and Description</u>	<u>Total Workhours</u>	<u>TS</u>	<u>CBBEL</u>	<u>Teska</u>	<u>Wang</u>	<u>HBK</u>	<u>H&H</u>	<u>MROWCO</u>	<u>SVS</u>
Task 22 - 143rd Street Waterman Design (Contract 1)									
A. Preliminary Design (75%+) - refer to Exhibit B1 for detail				-	-	-	-	-	-
B. Contract Plans - Pre-Final (95%) / Final (100%) -refer to Exhibit B1 for detail	147	-	147	-	-	-	-	-	-
Total for Tasks 22 A/B/C - See Exh B1 for Detail									
C. Permitting	54	-	54	-	-	-	-	-	-
D. Coordination									
1. Village Coordination & Meetings (2)	32	8	24	-	-	-	-	-	-
Task 22 Subtotal:	233	8	225	-	-	-	-	-	-
Task 23 - 143rd Street Waterman Design (Contract 2)									
A. Preliminary Design (75%+) - refer to Exhibit B1 for detail				-	-	-	-	-	-
B. Contract Plans - Pre-Final (95%) / Final (100%) -refer to Exhibit B1 for detail	224	-	224	-	-	-	-	-	-
Total for Tasks 23 A/B/C - See Exh B1 for Detail									
C. Permitting	54	-	54	-	-	-	-	-	-
D. Coordination									
1. Village Coordination & Meetings (2)	34	10	24	-	-	-	-	-	-
Task 23 Subtotal:	312	10	302	-	-	-	-	-	-
Total:	545	18	527	-	-	-	-	-	-

143rd Street Widening - Wolf Road to Southwest Highway
Section 14-00072-00-WR
Phase II Design Engineering Services - Change Order #2
EXHIBIT B1 - Contract Plans Manhours Estimate

	Task 22						Task 23					
	Contract 1 143rd Street Watermain Design						Contract 2 143rd Street Watermain Design					
Sheet Description	Hrs/Sht	Sheets	TSC	Hours		Subtotal	Hrs/Sht	Sheets	TSC	Hours		Subtotal
				CBBEL	Teska					CBBEL	Teska	
A. General Sheets												
Cover Sheet	-	-	-	-	-	-	-	-	-	-	-	-
Index of Sheets	-	-	-	-	-	-	-	-	-	-	-	-
General Notes	-	-	-	-	-	-	-	-	-	-	-	-
Summary of Quantities	-	-	-	-	-	-	-	-	-	-	-	-
Existing Typical Sections - 143rd St	-	-	-	-	-	-	-	-	-	-	-	-
Existing Typical Sections - Cross Roads	-	-	-	-	-	-	-	-	-	-	-	-
Proposed Typical Sections - 143rd St	-	-	-	-	-	-	-	-	-	-	-	-
Proposed Typical Sections - Cross Streets	-	-	-	-	-	-	-	-	-	-	-	-
Proposed Typical Sections - Cross Streets	-	-	-	-	-	-	-	-	-	-	-	-
Proposed Typical Sections - Details	-	-	-	-	-	-	-	-	-	-	-	-
Schedule of Quantities	-	-	-	-	-	-	-	-	-	-	-	-
Alignment, Ties and Benchmarks	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal:		-	-	-	-	-		-	-	-	-	-
B. Maintenance of Traffic Plans												
General Notes	-	-	-	-	-	-	-	-	-	-	-	-
Construction Staging Notes	-	-	-	-	-	-	-	-	-	-	-	-
Typical Sections - Prestage	-	-	-	-	-	-	-	-	-	-	-	-
Typical Sections - Stage 1	-	-	-	-	-	-	-	-	-	-	-	-
Typical Sections - Stage 2	-	-	-	-	-	-	-	-	-	-	-	-
Typical Sections - Stage 3	-	-	-	-	-	-	-	-	-	-	-	-
Temporary Pavement Details	-	-	-	-	-	-	-	-	-	-	-	-
Temporary Informational Signing Details	-	-	-	-	-	-	-	-	-	-	-	-
MOT Plans - Pre-Stage	-	-	-	-	-	-	-	-	-	-	-	-
MOT Plans - Stage 1 (50'=1")	-	-	-	-	-	-	-	-	-	-	-	-
MOT Plans - Stage 2 (50'=1")	-	-	-	-	-	-	-	-	-	-	-	-
MOT Plans - Stage 3 (50'=1")	-	-	-	-	-	-	-	-	-	-	-	-
MOT Plans - Sub-Stages (50'=1")	-	-	-	-	-	-	-	-	-	-	-	-
MOT Plans - Detours	-	-	-	-	-	-	-	-	-	-	-	-
Metra Lot MOT Design & Plans	-	-	-	-	-	-	-	-	-	-	-	-
Winter Shutdown Plans	-	-	-	-	-	-	-	-	-	-	-	-
Intersection Construction Staging Notes	-	-	-	-	-	-	-	-	-	-	-	-
Intersection Construction Detail Sheets	-	-	-	-	-	-	-	-	-	-	-	-
Traffic Control Details	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal:		-	-	-	-	-		-	-	-	-	-
C. Civil Plans												
Removal & Existing Conditions (20"=1')	-	-	-	-	-	-	-	-	-	-	-	-
Roadway Plan & Profile (20"=1')	-	-	-	-	-	-	-	-	-	-	-	-
Construction Details	-	-	-	-	-	-	-	-	-	-	-	-
Erosion & Sediment Control - Sequence of Operations & Notes	-	-	-	-	-	-	-	-	-	-	-	-
Erosion & Sediment Control - Stage 1 (50'=1")	-	-	-	-	-	-	-	-	-	-	-	-
Erosion & Sediment Control - Stage 2 (50'=1")	-	-	-	-	-	-	-	-	-	-	-	-
Erosion & Sediment Control - Stage 3 (50'=1")	-	-	-	-	-	-	-	-	-	-	-	-
Erosion & Sediment Control - Details	-	-	-	-	-	-	-	-	-	-	-	-
Drainage Removal (20'=1")	-	-	-	-	-	-	-	-	-	-	-	-
Drainage Plan & Profile (20'=1")	-	-	-	-	-	-	-	-	-	-	-	-
Drainage Plan & Profile (20'=1") Contract 1	-	-	-	-	-	-	-	-	-	-	-	-
BMP Design Incorporation	-	-	-	-	-	-	-	-	-	-	-	-
Drainage Plan & Profile (20'=1") Contract 2	-	-	-	-	-	-	-	-	-	-	-	-
BMP Design Incorporation	-	-	-	-	-	-	-	-	-	-	-	-

143rd Street Widening - Wolf Road to Southwest Highway
Section 14-00072-00-WR
Phase II Design Engineering Services - Change Order #2
EXHIBIT B1 - Contract Plans Manhours Estimate

	Task 22						Task 23					
	Contract 1 143rd Street Watermain Design						Contract 2 143rd Street Watermain Design					
Sheet Description	Hrs/Sht	Sheets	TSC	Hours		Subtotal	Hrs/Sht	Sheets	TSC	Hours		Subtotal
Watermain/Utility Removal (20'=1")	2	11	-	22	-	22	2	17	-	34	-	34
Watermain Plan & Profile (20'=1") - 75%	5	8	-	40	-	40	5	17	-	85	-	85
Watermain Plan & Profile (20'=1") - 95%/100%	3	8	-	24	-	24	3	17	-	51	-	51
Watermain Schedules	6	2	-	12	-	12	6	4	-	24	-	24
Watermain Details	8	2	-	16	-	16	3	2	-	6	-	6
Schematic Parking Lot Layout Plan (20'=1")	-	-	-	-	-	-	-	-	-	-	-	-
Metra Lot Civil Design Plan (20'=1")	-	-	-	-	-	-	-	-	-	-	-	-
Proposed Layout & Grading Plan (20'=1")	-	-	-	-	-	-	-	-	-	-	-	-
Drainage Schedules	-	-	-	-	-	-	-	-	-	-	-	-
Drainage Details	-	-	-	-	-	-	-	-	-	-	-	-
Drainage/BMP Details	-	-	-	-	-	-	-	-	-	-	-	-
Temporary Drainage Plans (20'=1")	-	-	-	-	-	-	-	-	-	-	-	-
Temporary Drainage Schedules	-	-	-	-	-	-	-	-	-	-	-	-
Intersection Details (20'=1')	-	-	-	-	-	-	-	-	-	-	-	-
ADA Ramp Details (5'=1') (64 ramps @ 4 per sheets)	-	-	-	-	-	-	-	-	-	-	-	-
Pavement Marking Plans (50'=1")	-	-	-	-	-	-	-	-	-	-	-	-
Existing Signing Plans (50'=1")	-	-	-	-	-	-	-	-	-	-	-	-
Proposed Signing Plans (50'=1")	-	-	-	-	-	-	-	-	-	-	-	-
Signing Details	-	-	-	-	-	-	-	-	-	-	-	-
Existing Signing Schedules	-	-	-	-	-	-	-	-	-	-	-	-
Proposed Signing Schedules	-	-	-	-	-	-	-	-	-	-	-	-
BMP Grading Plan & Details (1-acre area)	-	-	-	-	-	-	-	-	-	-	-	-
Landscaping Plans (50'=1") (1-acre area)	-	-	-	-	-	-	-	-	-	-	-	-
Landscaping Details (1-acre area)	-	-	-	-	-	-	-	-	-	-	-	-
Roadway Soil Boring Plans & Logs	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal:		31	-	114	-	114		57	-	200	-	200
D. Traffic Signal & Lighting Plans												
<u>Traffic Signal Plans</u>												
Wolf Rd - Temp & Prop		-	-	-	-	-	-	-	-	-	-	-
108th Ave - Temp & Prop		-	-	-	-	-	-	-	-	-	-	-
Crystal Tree - Prop only		-	-	-	-	-	-	-	-	-	-	-
West Ave - Temp & Prop		-	-	-	-	-	-	-	-	-	-	-
Union Ave - Temp only		-	-	-	-	-	-	-	-	-	-	-
Southwest Hwy - Temp & Prop		-	-	-	-	-	-	-	-	-	-	-
Traffic Signal Interconnect Plans (50'=1")		-	-	-	-	-	-	-	-	-	-	-
<u>Lighting Plans</u>												
Lighting General Notes		-	-	-	-	-	-	-	-	-	-	-
Temporary Lighting Plans (50'=1")		-	-	-	-	-	-	-	-	-	-	-
Roadway Lighting Plans (50'=1")		-	-	-	-	-	-	-	-	-	-	-
Single Line Diagram		-	-	-	-	-	-	-	-	-	-	-
Metra Lot Lighting Design Plans		-	-	-	-	-	-	-	-	-	-	-
Lighting Details		-	-	-	-	-	-	-	-	-	-	-
Subtotal:		-	-	-	-	-		-	-	-	-	-
E. Structural Plans												
<u>Retaining Wall Plans</u>												
Metra Retaining Walls		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.3		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.4		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.5		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.6		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.7		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.8		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.9		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.10		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.11		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.12		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.13		-	-	-	-	-	-	-	-	-	-	-

143rd Street Widening - Wolf Road to Southwest Highway
Section 14-00072-00-WR
Phase II Design Engineering Services - Change Order #2
EXHIBIT B1 - Contract Plans Manhours Estimate

	Task 22						Task 23					
	Contract 1 143rd Street Watermain Design						Contract 2 143rd Street Watermain Design					
Sheet Description	Hrs/Sht	Sheets	TSC	Hours		Subtotal	Hrs/Sht	Sheets	TSC	Hours		Subtotal
Wall No. 1.14		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.15		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.16		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.17		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.18		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.19		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.20		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.21		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.22		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.23		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.24		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.25		-	-	-	-	-	-	-	-	-	-	-
Wall No. 1.26		-	-	-	-	-	-	-	-	-	-	-
Wall No. 2		-	-	-	-	-	-	-	-	-	-	-
Wall No. 2.1		-	-	-	-	-	-	-	-	-	-	-
Wall No. 2.2		-	-	-	-	-	-	-	-	-	-	-
Wall No. 2.3		-	-	-	-	-	-	-	-	-	-	-
Wall No. 2.4		-	-	-	-	-	-	-	-	-	-	-
Wall No. 3		-	-	-	-	-	-	-	-	-	-	-
Wall No. 3.1 (Metra))		-	-	-	-	-	-	-	-	-	-	-
Wall No. 4.1		-	-	-	-	-	-	-	-	-	-	-
Wall No.5.1		-	-	-	-	-	-	-	-	-	-	-
<u>Noise Wall Plans</u>												
Wall No. 1		-	-	-	-	-	-	-	-	-	-	-
<u>Culverts</u>												
Culvert No. 1		-	-	-	-	-	-	-	-	-	-	-
Culvert No. 2		-	-	-	-	-	-	-	-	-	-	-
Culvert No. 3		-	-	-	-	-	-	-	-	-	-	-
Culvert No. 4		-	-	-	-	-	-	-	-	-	-	-
Culvert No. 5		-	-	-	-	-	-	-	-	-	-	-
<u>Bridges</u>												
Comp Storage Multi Use Bridge		-	-	-	-	-	-	-	-	-	-	-
Subtotal:		-	-	-	-	-	-	-	-	-	-	-
F. Cross Sections (10H:5V)												
Mainline at 50 ft intervals & Driveway or Critical section every 250' at 2.5 xs/sheet		-	-	-	-	-	-	-	-	-	-	-
Major Cross Roads at 50 ft intervals & Driveway or Critical section every 250' at 2.5 xs/sheet		-	-	-	-	-	-	-	-	-	-	-
Minor Cross Roads at 50 ft intervals & Driveway or Critical section every 250' at 2.5 xs/sheet		-	-	-	-	-	-	-	-	-	-	-
Subtotal:		-	-	-	-	-	-	-	-	-	-	-
G. Contract Documents												
<u>Specifications</u>												
60%/75% Submittal			-	12	-	12			-	6	-	6
95% Submittal			-	4	-	4			-	2	-	2
100% Submittal			-	3	-	3			-	2	-	2
<u>Design Calculations</u>												
Guardrail Analysis			-		-	-			-	-	-	-
Inlet Spacing Calculations			-	-	-	-			-	-	-	-
Storm Sewer Design			-	-	-	-			-	-	-	-
Ditch Design			-	-	-	-			-	-	-	-
Detention Calculations			-	-	-	-			-	-	-	-
Lighting Calculations			-	-	-	-			-	-	-	-
Quantity Calculations			-	8	-	8			-	8	-	8
<u>Construction Cost Estimates</u>												

143rd Street Widening - Wolf Road to Southwest Highway
Section 14-00072-00-WR
Phase II Design Engineering Services - Change Order #2
EXHIBIT B1 - Contract Plans Manhours Estimate

	Task 22						Task 23					
	Contract 1 143rd Street Watermain Design						Contract 2 143rd Street Watermain Design					
Sheet Description	Hrs/Sht	Sheets	TSC	Hours		Subtotal	Hrs/Sht	Sheets	TSC	Hours		Subtotal
75% Submittal			-	2	-	2			-	2	-	2
95% Submittal			-	2	-	2			-	2	-	2
100% Submittal			-	2	-	2			-	2	-	2
<u>Project Schedules</u>						-						-
Design Scheduling			-	-	-	-			-	-	-	-
Subtotal:			-	33	-	33			-	24	-	24
H. Bid Phase Support												
Prepare Contract Addenda (assume 1 addenda/contract @24 hrs/addendum)			-	-	-	-			-	-	-	-
Preconstruction Bid Meeting Support			-	-	-	-			-	-	-	-
Assist in preparing responses to bidder questions			-	-	-	-			-	-	-	-
Construction Bid review support			-	-	-	-			-	-	-	-
Analysis of Contractor Bids			-	-	-	-			-	-	-	-
Subtotal:			-	-	-	-	-	-	-	-	-	-

GRAND TOTALS	<u>MH Total</u>	<u>Sheets</u>	<u>TSC</u>	<u>CBBEL</u>	<u>Teska</u>	<u>Subtotal</u>	<u>Sheets</u>	<u>TSC</u>	<u>CBBEL</u>	<u>Teska</u>	<u>Subtotal</u>
A. General Sheets	-	-	-	-	-	-	-	-	-	-	-
B. Maintenance of Traffic Plans	-	-	-	-	-	-	-	-	-	-	-
C. Civil Plans	314	31	-	114	-	114	57	-	200	-	200
D. Traffic Signal & Lighting Plans	-	-	-	-	-	-	-	-	-	-	-
E. Structural Plans	-	-	-	-	-	-	-	-	-	-	-
F. Cross Sections	-	-	-	-	-	-	-	-	-	-	-
G. Contract Documents	57	-	-	33	-	33	-	-	24	-	24
H. Bid Phase Support	-	-	-	-	-	-	-	-	-	-	-
TOTALS	371	31	-	147	-	147	57	-	224	-	224

Local Public Agency Village of Orland Park	County Cook	Section Number 14-00072-00-WR
Prime Consultant (Firm) Name TranSystems Corporation	Prepared By Chris Bonus	Date 6/26/2025
Consultant / Subconsultant Name TranSystems	Job Number D-91-180-14	

Note: This is name of the consultant the CECS is being completed for. This name appears at the top of each tab.

Remarks

Phase II Engineering. 143rd Street (IL Route 7) from Wolf Road to Southwest Highway - Supplement No. 2

PAYROLL ESCALATION TABLE

CONTRACT TERM	21	MONTHS	OVERHEAD RATE	149.49%
START DATE	7/1/2025		COMPLEXITY FACTOR	0
RAISE DATE	4/4/2026		% OF RAISE	2.00%
END DATE	3/31/2027			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	7/1/2025	4/4/2026	9	42.86%
1	4/5/2026	4/4/2027	12	58.29%

The total escalation = 1.14%

Local Public Agency	County	Section Number
Village of Orland Park	Cook	14-00072-00-WR
Consultant / Subconsultant Name	Job Number	
TranSystems	D-91-180-14	

PAYROLL RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET FIXED RAISE

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	1.14%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Engineer 5 (E5)	\$78.00	\$78.89
Engineer 4 (E4)	\$77.58	\$78.47
Engineer 3 (E3)	\$71.26	\$72.07
Engineer 2 (E2)	\$60.44	\$61.13
Engineer 1 (E1)	\$47.00	\$47.54
Planner 5 (P5)	\$78.00	\$78.89
Planner 4 (P4)	\$69.92	\$70.72
Planner 3 (P3)	\$48.15	\$48.70
Planner 2 (P2)	\$52.31	\$52.91
Architect 4 (AR4)	\$75.11	\$75.97
Architect 3 (AR3)	\$59.70	\$60.38
Architect 2 (AR2)	\$44.13	\$44.63
Architect 1 (AR1)	\$34.14	\$34.53
Environmental Scientist 4 (SC4)	\$78.00	\$78.89
Industry Specialist 3 (IS3)	\$63.21	\$63.93
Construction Services 4 (CS4)	\$57.47	\$58.13
Construction Services 3 (CS3)	\$48.69	\$49.25
Construction Services 2 (CS2)	\$34.24	\$34.63
Technician 3 (T3)	\$41.14	\$41.61
Technician 1 (T1)	\$20.75	\$20.99
Administrative 3 (A3)	\$51.66	\$52.25
Administrative 2 (A2)	\$34.35	\$34.74

Local Public Agency	County	Section Number
Village of Orland Park	Cook	14-00072-00-WR
Consultant / Subconsultant Name		Job Number
TranSystems		D-91-180-14

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

[illegible]

NOTE: Only subconsultants who fill out a cost estimate that splits out direct labor may be listed on this sheet.

Village of Orland Park

Cook

14-00072-00-WR

TranSystems

D-91-180-14

Local Public Agency

Village of Orland Park

County

Cook

Section Number

14-00072-00-WR

Consultant / Subconsultant Name

TranSystems

Job Number

D-91-180-14

AVERAGE HOURLY PROJECT RATES
EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Task 22 - 143rd Street Watermain Design (Contract 1)			Task 23 - 143rd Street Watermain Design (Contract 2)											
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Engineer 5 (E5)	78.89	4.0	22.22%	17.53	2	25.00%	19.72	2	20.00%	15.78									
Engineer 4 (E4)	78.47	0.0																	
Engineer 3 (E3)	72.07	8.0	44.44%	32.03	4	50.00%	36.04	4	40.00%	28.83									
Engineer 2 (E2)	61.13	6.0	33.33%	20.38	2	25.00%	15.28	4	40.00%	24.45									
Engineer 1 (E1)	47.54	0.0																	
Planner 5 (P5)	78.89	0.0																	
Planner 4 (P4)	70.72	0.0																	
Planner 3 (P3)	48.70	0.0																	
Planner 2 (P2)	52.91	0.0																	
Architect 4 (AR4)	75.97	0.0																	
Architect 3 (AR3)	60.38	0.0																	
Architect 2 (AR2)	44.63	0.0																	
Architect 1 (AR1)	34.53	0.0																	
Environmental Scientist 4 (E4)	78.89	0.0																	
Industry Specialist 3 (IS3)	63.93	0.0																	
Construction Services 4 (C4)	58.13	0.0																	
Construction Services 3 (C3)	49.25	0.0																	
Construction Services 2 (C2)	34.63	0.0																	
Technician 3 (T3)	41.61	0.0																	
Technician 1 (T1)	20.99	0.0																	
Administrative 3 (A3)	52.25	0.0																	
Administrative 2 (A2)	34.74	0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		18.0	100%	\$69.94	8.0	100.00%	\$71.04	10.0	100%	\$69.06	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

Christopher B. Burke Engineering, Ltd. (CBBEL)

Supplement No. 2 Manhours

Local Public Agency

Village of Orland Park

County

Cook

Section Number

14-00072-00-WR

Prime Consultant (Firm) Name

TranSystems

Prepared By

Matt Huffman

Date

6/26/2025

Consultant / Subconsultant Name

Christopher B. Burke Engineering, Ltd.

Job Number

D-91-180-14

Note: This is name of the consultant the CECS is being completed for. This name appears at the top of each tab.

Remarks

Phase II Engineering. 143rd Street (IL Route 7) from Wolf Road to Southwest Highway - Change Order 2

PAYROLL ESCALATION TABLE

CONTRACT TERM	21	MONTHS
START DATE	7/1/2025	
RAISE DATE	1/1/2026	
END DATE	3/31/2027	

OVERHEAD RATE	126.53%
COMPLEXITY FACTOR	0
% OF RAISE	2.00%

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	7/1/2025	1/1/2026	6	28.57%
1	1/2/2026	1/1/2027	12	58.29%
2	1/2/2027	4/1/2027	3	14.86%

The total escalation = 1.72%

Local Public Agency	County	Section Number
Village of Orland Park	Cook	14-00072-00-WR
Consultant / Subconsultant Name		Job Number
Christopher B. Burke Engineering, Ltd.		D-91-180-14

PAYROLL RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET FIXED RAISE

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	1.72%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Engineer VI	\$84.21	\$85.66
Engineer V	\$71.16	\$72.38
Engineer IV	\$58.38	\$59.38
Engineer III	\$46.57	\$47.37
Engineer I/II	\$33.60	\$34.18
Survey V	\$81.89	\$83.30
Survey IV	\$74.00	\$75.27
Survey III	\$64.75	\$65.86
Survey II	\$53.00	\$53.91
Survey I	\$37.56	\$38.21
Engineering Technician V	\$70.17	\$71.38
Engineering Technician IV	\$61.81	\$62.87
Engineering Technician III	\$38.25	\$38.91
Engineering Technician I/II	\$23.33	\$23.73
CAD Manager	\$68.83	\$70.01
CAD Technician II	\$51.81	\$52.70
GIS Specialist III	\$56.00	\$56.96
Landscape Architect	\$63.00	\$64.08
Landscape Designer I/II	\$36.50	\$37.13
Environmental Resource Specialist V	\$73.70	\$74.97
Environmental Resource Specialist IV	\$60.58	\$61.62
Environmental Resource Specialist III	\$51.25	\$52.13
Environmental Resource Specialist I/II	\$29.13	\$29.63
Environmental Resource Technician	\$44.00	\$44.76
Engineering Intern	\$18.67	\$18.99

Local Public Agency

Village of Orland Park

County

Cook

Section Number

14-00072-00-WR

Consultant / Subconsultant Name

Christopher B. Burke Engineering, Ltd.

Job Number

D-91-180-14

DIRECT COSTS WORKSHEET

List ALL direct costs required for this project. Those not listed on the form will not be eligible for reimbursement by the LPA on this project.

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	980	\$0.70	\$686.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	4	\$65.00	\$260.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utlility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Title Reports	Actual Costs			\$0.00
Report Reproduction/Printing	Actual Costs			\$0.00
11x17 Color Laser	Actual Costs			\$0.00
				\$0.00
TOTAL DIRECT COSTS:				\$946.00

Local Public Agency
Village of Orland Park
Consultant / Subconsultant Name
Christopher B. Burke Engineering, Ltd.

County
Cook

Section Number
14-00072-00-WR
Job Number
D-91-180-14

AVERAGE HOURLY PROJECT RATES
EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Watermain Design (Contract 1)			Watermain Design (Contract 2)											
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Engineer VI	85.66	16.0	3.04%	2.60	7	3.11%	2.66	9	2.98%	2.55									
Engineer V	72.38	99.0	18.79%	13.60	44	19.56%	14.16	55	18.21%	13.18									
Engineer IV	59.38	118.0	22.39%	13.30	48	21.33%	12.67	70	23.18%	13.76									
Engineer III	47.37	140.0	26.57%	12.58	60	26.67%	12.63	80	26.49%	12.55									
Engineer I/II	34.18	154.0	29.22%	9.99	66	29.33%	10.03	88	29.14%	9.96									
Survey V	83.30	0.0																	
Survey IV	75.27	0.0																	
Survey III	65.86	0.0																	
Survey II	53.91	0.0																	
Survey I	38.21	0.0																	
Engineering Technician V	71.38	0.0																	
Engineering Technician IV	62.87	0.0																	
Engineering Technician III	38.91	0.0																	
Engineering Technician I/II	23.73	0.0																	
CAD Manager	70.01	0.0																	
CAD Technician II	52.70	0.0																	
GIS Specialist III	56.96	0.0																	
Landscape Architect	64.08	0.0																	
Landscape Designer I/II	37.13	0.0																	
Environmental Resource Specialist V	74.97	0.0																	
Environmental Resource Specialist IV	61.62	0.0																	
Environmental Resource Specialist III	52.13	0.0																	
Environmental Resource Specialist I/II	29.63	0.0																	
Environmental Resource Technician	44.76	0.0																	
Engineering Intern	18.99	0.0																	
		0.0																	
		0.0																	
TOTALS		527.0	100%	\$52.07	225.0	100.00%	\$52.15	302.0	100%	\$52.01	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00