

## **Project Application**

### **General Information**

**Municipality/Lead Agency:** Village of Bartlett

- 1. Contact Person:** Mr. Bob Allen, P.E.
- 2. Contact Phone:** 630.837.0811
- 3. Contact Email:** RAllen@vbartlett.org

Project Location: North Avenue (FAU 1345)

#### **Project Limits:**

- 1. First Reference Point/Street:** Oak Avenue (FAU 2537)
- 2. Second Reference Point/Street:** Lake Street (FAP 345)

### **Existing and Proposed Condition**

#### **Describe the existing condition:**

North Avenue is an east-west collector roadway under the jurisdiction and maintenance of the Village of Bartlett from Oak Street to Prospect Street; between Prospect Street and Lake Street the roadway is under the jurisdiction and maintenance of the Village of Streamwood. The existing cross section consists of one 12-foot travel lane in each direction and an 8-foot paved shoulder with combination concrete curb and gutter along both sides of the pavement. The proposed project will connect to the existing intersection improvement led by the Village of Streamwood (currently in Phase II Engineering) approximately 550 feet west of Lake Street. North Avenue is stop controlled at the intersection with Oak Avenue. There are no traffic signals within the project limits since the proposed project terminates west of Lake Street. Concrete sidewalks are located on both sides of North Avenue within the Village of Bartlett. The existing pavement is in poor condition exhibiting secondary cracking, closely spaced transverse cracking, the first signs of raveling and spot failures.

Please note the Village of Bartlett has not had a project programmed through the Northwest Municipal Conference in recent history.

#### **Describe the proposed improvements:**

The proposed improvements include hot-mix asphalt surface removal, hot-mix asphalt resurfacing with binder and surface courses, combination concrete curb and gutter removal and replacement, sidewalk replacement, detectable warnings, pavement markings and reflective pavement markers.

**Work types (see guide for specific work types):** Road Rehabilitation

**Regional Transportation Significance**

**Roadway Designation:** Collector

**Roadway #2 (if intersection project) :** Choose an item.

**Safety** *(If project does not address safety, leave this section blank)*

**Vehicular Crashes for each of the last three years available:**

- |               |                       |
|---------------|-----------------------|
| 1. Year: 2013 | Vehicular Crashes: 5  |
| 2. Year: 2014 | Vehicular Crashes: 9  |
| 3. Year: 2015 | Vehicular Crashes: 13 |

**Will this project address bicycle and/or pedestrian safety:** Yes

**Please list all the type K (fatality) and A (incapacitating) accidents from the previous five years:**

Type A - 2015

Accident Report #15-0228005290

Angle Collision at the intersection of North Avenue and Hale Avenue

**Describe how the project will address safety and crash/accident history:**

The improvements will include spot sidewalk replacement and new detectable warnings in accordance with ADA guidelines to improve pedestrian accommodations and safety. In addition the pavement will be striped with new pavement markings and raised reflective pavement markers to improve driver visibility and enhance the safety of the motoring public.

**Scope of Project**

**Please enter the scope of work for the project:** The rehabilitation of North Avenue between Oak Avenue and Lake Street will include hot-mix asphalt surface removal, hot-mix asphalt binder course, hot-mix asphalt surface course, base repair, pavement patching, spot curb and gutter removal and replacement, spot sidewalk removal and replacement, detectable warnings, pavement markings and reflective pavement markers.

**Complete Streets/Multimodal**

**Describe any transit or transit access improvements:**

None.

**Describe any pedestrian improvements:**

The project will improve pedestrian accommodations with spot replacement of sidewalks and installation to eliminate trip hazards and installation ADA accessible curb ramps and detectable warnings.

**Describe any bicycle improvements:**

None.

**Are the transit, pedestrian and/or bicycle improvements included within a local, regional or state plan?**

No

**Is the proposed route a local or regional truck route?**

No

**If yes, please list plans and include reference (Exhibit F):**

NA

**Congestion Mitigation** *(If project does not address congestion mitigation, leave this section blank)*

**Does the project improve the level of service (LOS)?** No

1. **Pre-implementation LOS:** Choose an item.
2. **Post-implementation LOS:** Choose an item.

**Please attach LOS analysis as evidence of improvement (Exhibit E).**

### **Intergovernmental Importance**

**Please list the financially contributing project sponsors and partner agencies:** The Village of Bartlett is the project sponsor. The Village of Streamwood will be a participating partner agency. The proposed project will abut and connect with the existing Village of Streamwood intersection improvement of North Avenue at Lake Street (US Route 20).

### **Project Readiness**

**Please choose the appropriate project status:** Phase I Design Approval from IDOT

**If Phase I Engineering has not been initiated with IDOT, please describe any planning or engineering work that the project sponsor has undertaken:**

The project is targeting the November 2018 state letting.

**Project Cost Estimate**

	Federal		Local			Total
	STP	Other (CMAQ, ITEP, etc)	Municipal	State	County	
Phase I Engineering (only for CMAQ/TAP projects)						
Phase II Engineering			\$28,000			\$28,000
Right-Of-Way Acquisition						
Construction (includes Phase III Engineering)	\$647,208		\$161,802			\$809,010

**Note:** See attached funding breakdown for cost participation between the Village of Bartlett and the Village of Streamwood.

**Project Schedule** *(Fill in dates for applicable activities)*

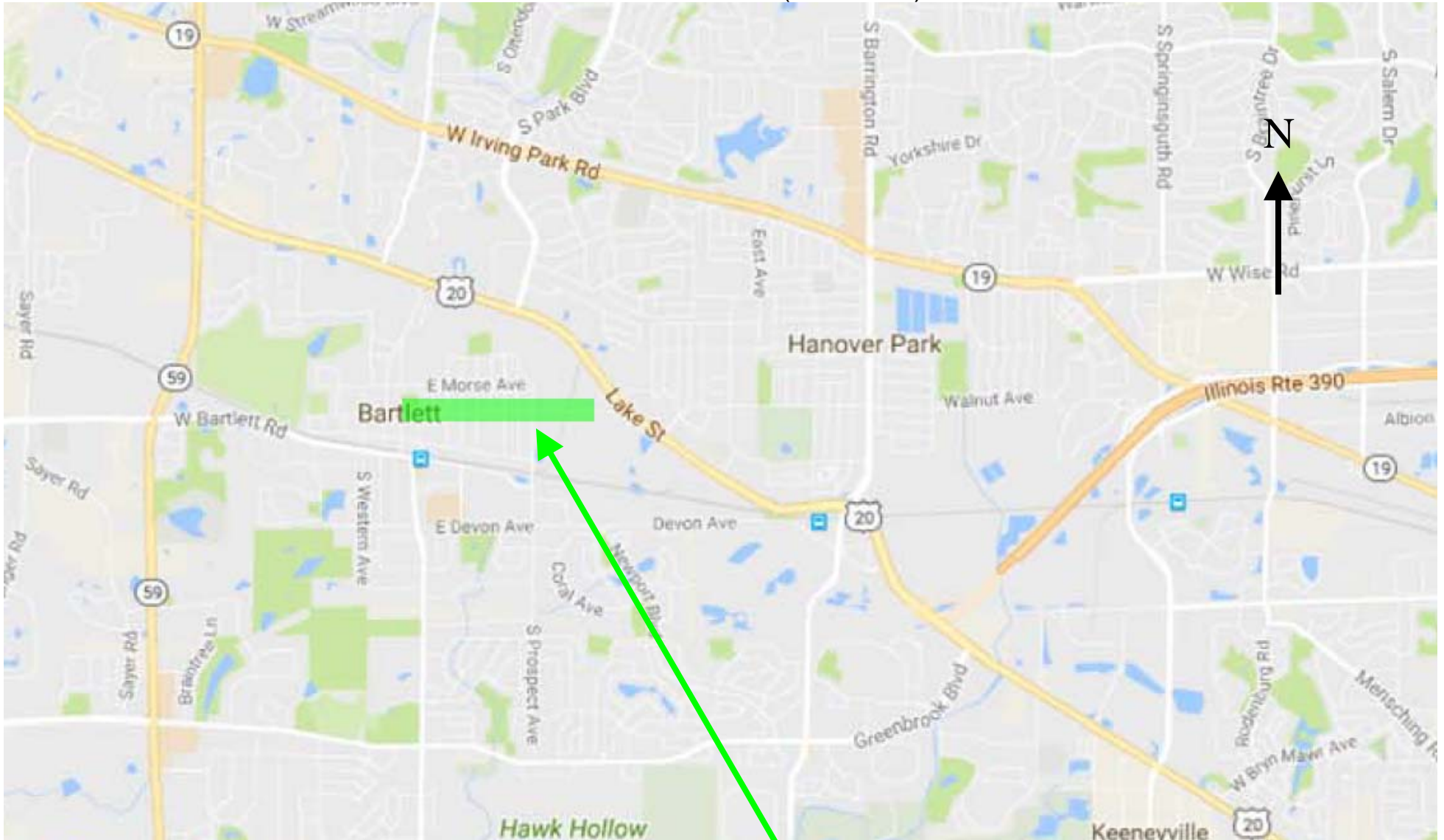
<b>Activity</b>	<b>Estimated Date</b>
<b>Initial Phase I Engineering Kick-off Meeting:</b>	Coordination underway
<b>Submit draft Phase I Engineering Report (PDR) to IDOT: (3-6 month review period)</b>	10/7/2016
<b>Submit Final PDR:</b>	10/14/2016
<b>Submit Draft Local Agency Agreement (BLR 5310) for Phase II Engineering:</b>	NA
<b>Phase I Engineering Design Approval:</b>	10/21/2016
<b>Execute Local Agency Agreement (BLR 5310) for Phase II Engineering:</b>	12/15/2017
<b>Submit of Pre-Final Plans w/ Estimates to IDOT: (1-4 month review period)</b>	6/15/2018
<b>Submit Draft Local Agency Agreement (BLR 5310) for Construction and Phase III Engineering Agreement:</b>	6/15/2018
<b>Execute Local Agency Agreement (BLR 5310) for Construction and Phase III Engineering Agreement:</b>	8/13/2018
<b>Submit Final Plans, Spec. &amp; Estimates (PS&amp;E):</b>	8/13/2018
<b>Right-of-Way Certification:</b>	NA
<b>Target Letting:</b>	11/9/2018

## Exhibits

Please submit the required exhibits with this application:

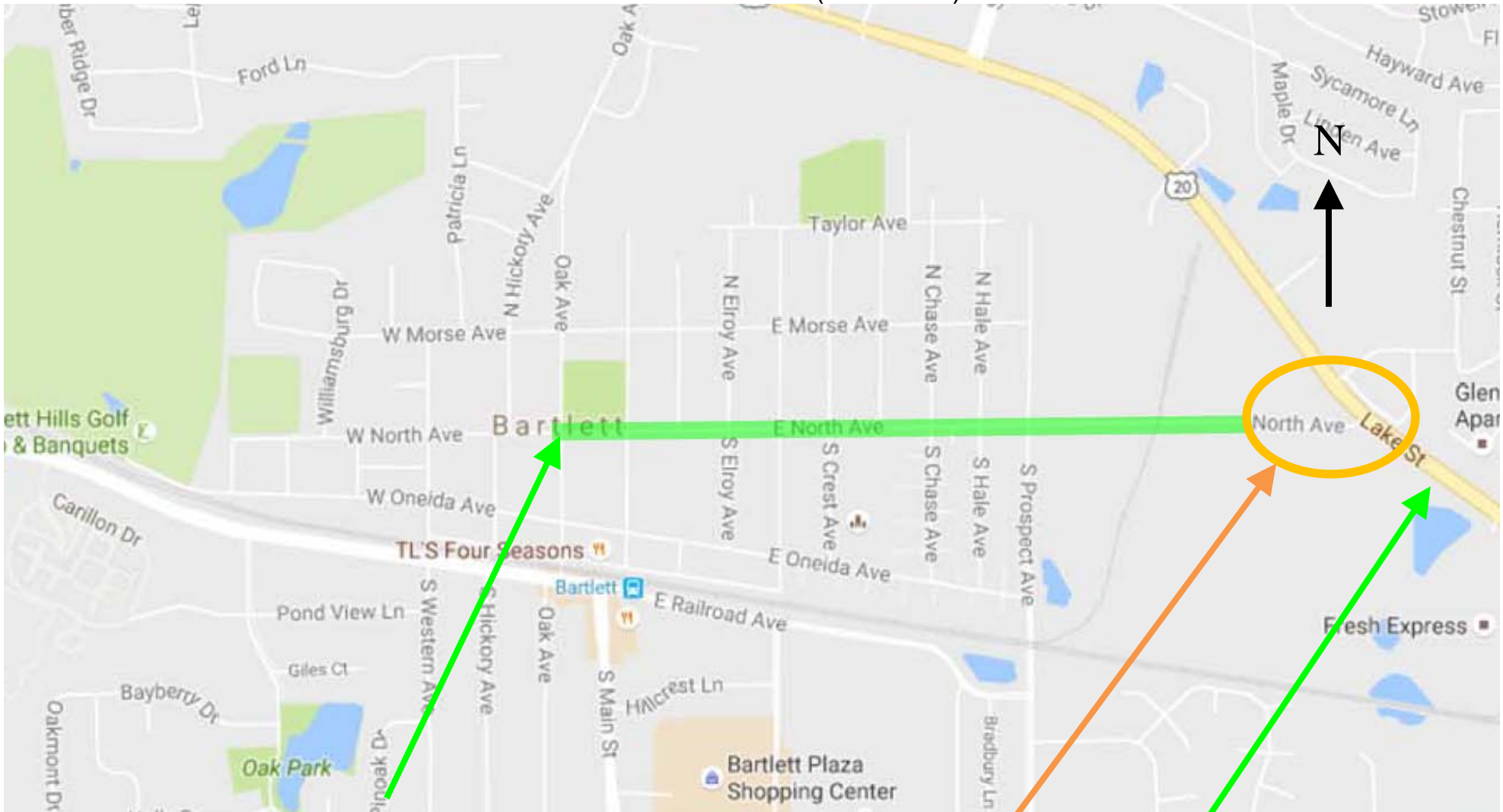
- A. Map showing location of project within the region
- B. Map showing location of project within municipality
- C. Existing typical section
- D. Proposed typical section
- E. ~~Evidence of level of service (LOS) improvement, if applicable.~~ *Not Applicable.*
- F. ~~Local, regional or state plans that include project (you can include reference or excerpt from plans).~~ *Not Applicable.*

**REGIONAL LOCATION MAP**  
**VILLAGE OF BARTLETT**  
NORTH AVENUE (FAU 1345)



**PROJECT LOCATION**

**MUNICIPAL LOCATION MAP  
VILLAGE OF BARTLETT  
NORTH AVENUE (FAU 1345)**

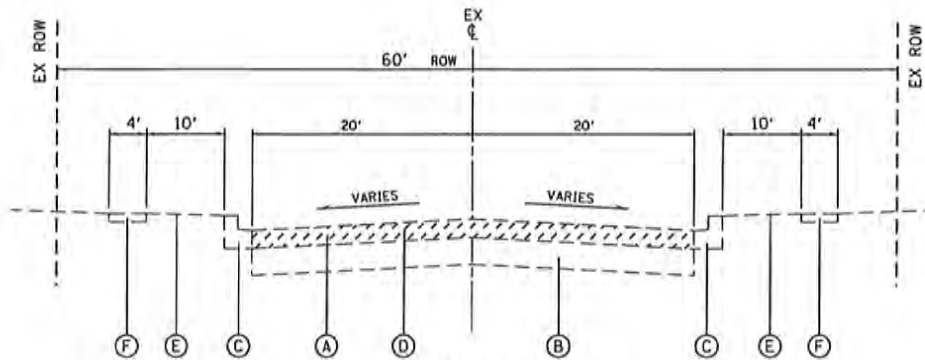


**OAK AVENUE (FAU 2537)**

**NORTH AVE AT LAKE ST  
INTERSECTION PROJECT  
PHASE I APPROVED  
PHASE II UNDERWAY**

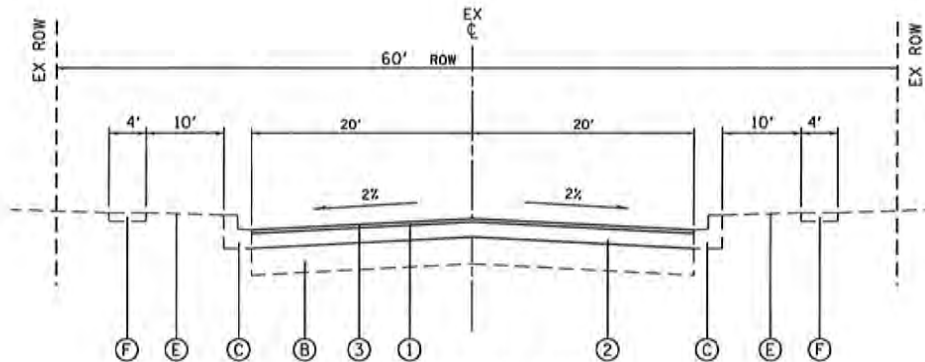
**LAKE STREET (FAP 345)**





**EXISTING TYPICAL SECTION**

NORTH AVENUE



**PROPOSED TYPICAL SECTION**

NORTH AVENUE

**EXISTING LEGEND**

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT; 4"±
- (B) EXISTING AGGREGATE BASE COURSE; 12"±
- (C) EXISTING COMBINATION CONCRETE CURB + GUTTER (SPOT REMOVAL AND REPLACEMENT)
- (D) HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"
- (E) EXISTING GROUND
- (F) EXISTING PCC SIDEWALK (SPOT REMOVAL + REPLACEMENT)

**PROPOSED LEGEND**

- (1) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2 1/4"
- (2) BITUMINOUS MATERIALS (TACK COAT)
- (3) HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50; 1 1/2"

REVISIONS		
#	DATE	BY:
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		



HRGreen.com  
 Illinois Professional Design Firm  
 # 184-001322

**TYPICAL SECTIONS  
 NORTH AVENUE**

SHEET ORIENTATION

DATE: 8/4/16		
HORIZ. SCALE: N.T.S.		
OWN. BY: MPR	DSN. BY: BDH	CHK. BY: AC
SECTION NO. 16-00000-01-GM		
SHEET NO. 1		



**North Avenue Roadway Improvements  
Funding Breakdown  
September 27, 2016**

**VILLAGE OF BARTLETT**

Type of Work	FHWA	BARTLETT	TOTAL
PHASE 2 ENGINEERING	\$0.00	\$21,000.00	<b>\$21,000.00</b>
PHASE 3 CONSTRUCTION SUPERVISION	\$29,360.00	\$7,340.00	<b>\$36,700.00</b>
CONSTRUCTION	\$461,394.00	\$115,348.00	<b>\$576,742.00</b>
<b>BARTLETT SUB-TOTAL</b>	<b>\$490,754.00</b>	<b>\$143,688.00</b>	<b>\$634,442.00</b>

**VILLAGE OF STREAMWOOD**

Type of Work	FHWA	STREAMWOOD	TOTAL
PHASE 2 ENGINEERING	\$0.00	\$7,000.00	<b>\$7,000.00</b>
PHASE 3 CONSTRUCTION SUPERVISION	\$9,364.00	\$2,341.00	<b>\$11,705.00</b>
CONSTRUCTION	\$147,090.00	\$36,773.00	<b>\$183,863.00</b>
<b>STREAMWOOD SUB-TOTAL</b>	<b>\$156,454.00</b>	<b>\$46,114.00</b>	<b>\$202,568.00</b>

<b>FUNDING TOTALS</b>	<b>\$647,208.00</b>	<b>\$189,802.00</b>	<b>\$837,010.00</b>
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<b>BREAKDOWN PER TYPE OF WORK</b>	
PHASE 2 TOTAL	<b>\$28,000.00</b>
PHASE 3 TOTAL	<b>\$48,405.00</b>
CONSTRUCTION TOTAL	<b>\$760,605.00</b>
<b>TOTAL</b>	<b>\$837,010.00</b>



**VILLAGE OF BARTLETT  
NORTH AVENUE ROADWAY REHABILITATION  
PRELIMINARY ESTIMATE OF COST**

JURISDICTION		BARTLETT	STREAMWOOD				
ROADWAY NAME		NORTH AVENUE	NORTH AVENUE	TOTALS	ESTIMATED UNIT COST	ESTIMATED COST	
ROADWAY LIMITS		OAK AVENUE TO PROSPECT STREET	PROSPECT STREET TO WEST OF LAKE STREET				
LENGTH (FOOT)		3,450	1,301				4,751
WIDTH (FOOT)		40	40				VARIES
EXTRA AREA (SQ YD)		2,000	0	2,000			
AREA (SQ YD)		17,334	5,822	23,156			
BITUMINOUS MATERIALS (TACK COAT)	POUND	11,701	3,930	15,631	\$0.50	\$7,815.50	
MIXTURE FOR CRACKS, JOINTS AND FLANGEWAYS	TON	15	10	25	\$150.00	\$3,750.00	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"	TON	2,315	775	3,090	\$68.00	\$210,120.00	
HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50, 1 1/2"	TON	1,575	525	2,100	\$70.00	\$147,000.00	
HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4 INCH	SQ YD	17,334	5,822	23,156	\$4.00	\$92,624.00	
AGGREGATE BASE COURSE REMOVAL & REPLACEMENT, 12 INCH	SQ YD	174	58	232	\$25.00	\$5,800.00	
HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT	SQ YD	250	85	335	\$12.00	\$4,020.00	
THERMOPLASTIC PAVEMENT MARKING - LINE 4 INCH	FOOT	14,490	5,465	19,955	\$0.60	\$11,973.00	
THERMOPLASTIC PAVEMENT MARKING - LINE 6 INCH	FOOT	5,000	0	5,000	\$0.75	\$3,750.00	
THERMOPLASTIC PAVEMENT MARKING - LINE 12 INCH	FOOT	350	0	350	\$2.00	\$700.00	
THERMOPLASTIC PAVEMENT MARKING, LINE 24 INCH	FOOT	200	75	275	\$5.00	\$1,375.00	
RRPM REMOVAL	EACH	400	75	475	\$5.00	\$2,375.00	
RRPM REPLACEMENT	EACH	400	75	475	\$35.00	\$16,625.00	
CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	290	97	387	\$45.00	\$17,415.00	
CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	290	97	387	\$45.00	\$17,415.00	
CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	290	97	387	\$45.00	\$17,415.00	
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	690	265	955	\$40.00	\$38,200.00	
PCC SIDEWALK REMOVAL AND REPLACEMENT	SQ FT	1,430	0	1,430	\$12.00	\$17,160.00	
DETECTABLE WARNINGS	SQ FT	488	0	488	\$30.00	\$14,640.00	
MOBILIZATION	L SUM	0.5	0.5	1	\$10,000.00	\$10,000.00	
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	0.5	0.5	1	\$25,000.00	\$25,000.00	
STRUCTURE ADJUSTMENTS	EACH	50	0	50	\$500.00	\$25,000.00	
TEMPORARY INFORMATION SIGNING	SQ FT	26	25	51	\$25.00	\$1,275.00	
<b>SUB-TOTAL</b>		<b>\$524,300.50</b>	<b>\$167,147.00</b>			<b>\$691,447.50</b>	
<b>CONTINGENCY @ 10%</b>		<b>\$52,435.00</b>	<b>\$16,715.00</b>			<b>\$69,150.00</b>	
<b>PHASE 3 ENGINEERING @ 7%</b>		<b>\$36,700.00</b>	<b>\$11,705.00</b>			<b>\$48,405.00</b>	
<b>TOTAL</b>		<b>\$613,440.00</b>	<b>\$195,570.00</b>			<b>\$809,010.00</b>	

**SUMMARY OF ACCIDENT DATA**

Years: 2013-2015

North Avenue at Oak Avenue

Accident Type	2013			2014			2015		
	#Acc.	#Inj.	#Fat.	#Acc.	#Inj.	#Fat.	#Acc.	#Inj.	#Fat.
Pedestrian									
Bike									
Train									
Animal									
Overturned									
Fixed Object							1	1	
Other Object									
Other non-collision									
Parked vehicle				1					
Turning							2		
Rear End	2			1					
Sideswipe same direction									
Sideswipe opposite direction									
Head on									
Angle	1			2			3	1	
<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>0</b>

	2013	2014	2015	TOTAL
# Accidents with Injuries			2	2
# Accidents with Fatalities				0
# Accidents on Wet Pavement			3	3
# Accidents on Snow/Ice				0

**SUMMARY OF ACCIDENT DATA**

Years: 2013-2015

North Avenue at Prospect Avenue

Accident Type	2013			2014			2015		
	#Acc.	#Inj.	#Fat.	#Acc.	#Inj.	#Fat.	#Acc.	#Inj.	#Fat.
Pedestrian									
Bike									
Train									
Animal									
Overturned									
Fixed Object									
Other Object									
Other non-collision									
Parked vehicle				1					
Turning							1		
Rear End				1					
Sideswipe same direction									
Sideswipe opposite direction									
Head on									
Angle	2	1					2	1	
<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>0</b>

	2013	2014	2015	TOTAL
# Accidents with Injuries	1		1	2
# Accidents with Fatalities				0
# Accidents on Wet Pavement				0
# Accidents on Snow/Ice				0

**SUMMARY OF ACCIDENT DATA**

Years: 2013-2015

North Avenue at Hale Avenue

Accident Type	2013			2014			2015		
	#Acc.	#Inj.	#Fat.	#Acc.	#Inj.	#Fat.	#Acc.	#Inj.	#Fat.
Pedestrian									
Bike									
Train									
Animal									
Overturned									
Fixed Object									
Other Object									
Other non-collision									
Parked vehicle									
Turning									
Rear End									
Sideswipe same direction				1					
Sideswipe opposite direction									
Head on									
Angle							2	1	
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>

	2013	2014	2015	TOTAL
# Accidents with Injuries			1	1
# Accidents with Fatalities				0
# Accidents on Wet Pavement				0
# Accidents on Snow/Ice				0