City of Carroll

112 E. 5th Street Carroll, Iowa 51401-2799 (712) 792-1000 FAX: (712) 792-0139

MEMO TO: Mike Pogge-Weaver, City Manager MJPW

FROM: Randall M. Krauel, Director of Public Works RMK

DATE: January 31, 2018

SUBJECT: West Street Resurfacing STBG Funding Application

An Application for Federal funding under the Surface Transportation Block Grant Program (STBG) has been prepared. The Application is for improvements to West Street from 7th Street to 18th Street. The improvements are projected to include storm sewer construction, pavement scarification, patching, curb repair, sidewalk repair, hot mix asphalt surfacing and other associated work. The West Street segment is recommended based on pavement condition index and field review compared to other Federal-aid eligible routes.

Applications were due February 9. An Application has been submitted, unsigned. It can be withdrawn if so desired. A copy is attached.

The estimated project cost and proposed funding is as follows:

	Estimated Cost	Federal-aid	Local
Construction/Materials	$750,000	$600,000	$150,000
Engineering/Consulting	$125,000	$ 0	$125,000
Total	$875,000	$600,000	$275,000

The Application for funding is for Federal Fiscal Year 2020. The proposed F.Y. 19 – 23 Capital Improvements Program includes projected funding for a Street Rehab – 2019 project in the amount of $700,000. A portion of that funding, or other available funding, could be a source of the Local funding for this project.

The project schedule is currently proposed as follows:

Concept Statement	February, 2019
Preliminary Plans	September, 2019
Check Plans	October, 2019
Final Plans	November, 2019
Contracts	December, 2019
Bid Letting	February, 2020
Construction Completion	October, 2020

The Application requires a Resolution of the City Council committing the local funds and assuring project maintenance.

RECOMMENDATION: Mayor and City Council consideration and passage and approval of the Resolution Committing Funds for Construction and Assuring Operation and Maintenance of the West Street Resurfacing Project.

RMK:ds

attachments (4)

RESOLUTION NO. _____

A RESOLUTION COMMITTING FUNDS FOR CONSTRUCTION AND ASSURING OPERATION AND MAINTENANCE OF THE WEST STREET RESURFACING PROJECT.

WHEREAS, the City of Carroll is desirous of improving the strength and serviceability of West Street from 7th Street to 18th Street; and,

WHEREAS, West Street from 7th Street to 18th Street is eligible to compete on a Regional basis for Federal funding under the Surface Transportation Block Grant Program.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Carroll, Iowa, that application be made for Federal funding under the Surface Transportation Block Grant Program; and,

BE IT FURTHER RESOLVED that funding for the engineering costs and local share, now estimated to equal $275,000, is assured to be made available by the City Council from sources that may be lawfully used for that purpose; and,

BE IT FURTHER RESOLVED, that the project will be operated and maintained by the City Council of the City of Carroll, Iowa, for the useful life of the improvement and the use of any right-of-way acquired will not change without prior approval from the Federal Highway Administration.

Passed and approved by the Carroll City Council this 13th day of February, 2018.

CITY COUNCIL OF THE
CITY OF CARROLL, IOWA

By: _____
Eric P. Jensen, Mayor

ATTEST:

By: _____
Laura A. Schaefer, City Clerk

APPLICATION FOR REGION XII RPA

SURFACE TRANSPORTATION BLOCK GRANT PROGRAM
2019-2022 TRANSPORTATION IMPROVEMENT PROGRAM

Due Date: February 9, 2018 by 4:00 pm

CHECKLIST:	The following items must be provided for all projects.
X	Project Application
X	Project Location Map(s)
X	Resolution from Sponsoring Governmental Entity - commitment of funds - statement on project maintenance
X	Signed Certification Form
X	Reproducible site map that clearly outlines the project area
X	Digital Photos of the existing route
X	Electronic Copy of Full Application to cwhitaker@region12cog.org

All Project Funding is Subject to the Availability of Transportation Funds.

Highway, Road or Street Projects Must be Classified as a Major Collector or Above on the Federal Functional Classification System. Street projects within an Urban Area (cities with a population over 5,000) must be classified as a Collector or Above. Federal Functional Classification Maps are available at www.region12cog.org under the Downloads Section.

1. Applicant: City of Carroll

2. Project Name: West Street Resurfacing

3. Contact Person: Randall M. Krauel Phone Number: (712) 792-1000

Address: 112 E. 5th Street City: Carroll Zip Code: 51401

4. Lead Agency if Multi-Jurisdictional: City of Carroll

5. Project Name: West Street Resurfacing

6. Project Termini (If Applicable): 7th Street to 18th Street

7. Project Length (If Applicable): 0.76 mi.

8. Funding is being Requested for which Federal Fiscal Year: 2020

9. STBG Project Eligibilities: (Check those that apply)

- ☒ Construction, reconstruction, rehabilitation, resurfacing, restoration, preservation, or operational improvements for highways
- ☐ Replacement, rehabilitation, preservation, protection, and anti-icing/deicing for bridges and tunnels on any public road, including construction or reconstruction necessary to accommodate other modes.
- ☐ Construction of new bridges and tunnels on a Federal-aid highway.
- ☐ Inspection and evaluation of bridges, tunnels and other highway assets as well as training for bridge and tunnel inspectors.
- ☐ Capital costs for transit projects.
- ☐ Carpool projects, fringe and corridor parking facilities and programs.
- ☐ Highway and transit safety infrastructure improvements and programs, installation of safety barriers and nets on bridges, hazard eliminations, mitigation of hazards caused by wildlife, railway-highway grade crossings.
- ☐ Highway and transit research, development, technology transfer.
- ☐ Capital and operating costs for traffic monitoring, management and control facilities and programs, including advanced truck stop electrification.
- ☐ Surface transportation planning.
- ☐ Transportation Alternatives.
- ☐ Transportation control measures.
- ☐ Development and establishment of management systems.
- ☐ Environmental mitigation efforts (as under National Highway Performance Program).
- ☐ Intersections with high accident rates or levels of congestion.
- ☐ Infrastructure-based ITS capital improvements.
- ☐ Environmental restoration and pollution abatement.
- ☐ Control of noxious weeds and establishment of native species.
- ☐ Congestion pricing projects and strategies, including electric toll collection and travel demand management strategies and programs.
- ☐ Recreational trails projects.
- ☐ Construction of ferry boats and terminals.
- ☐ Border infrastructure projects.
- ☐ Truck parking facilities.
- ☐ Development and implementation of State asset management plan for the NHS, and similar activities related to the development and implementation of a performance based management program for other public roads.
- ☐ Surface transportation infrastructure modifications within port terminal boundaries, only if necessary to facilitate direct intermodal interchange, transfer, and access into and out of the port.
- ☐ Construction and operational improvements for a minor collector in the same corridor and in proximity to an NHS route if the improvement is more cost-effective (as determined by a benefit-cost analysis) than an NHS improvement and will enhance NHS level of service and regional traffic flow.

10. Type of work:

The West Street Resurfacing project includes resurfacing of existing West Street within the City of Carroll. The project is located on West Street from 7th Street to 18th Street, a length of approximately 0.76 mile. Rehabilitation includes storm sewer construction, pavement scarification, patching, curb repair, sidewalk repair, hot mix asphalt surfacing and other associated work.

West Street within the project area is Federally Functionally Classified a Minor Arterial. The area includes Residential and Business Zoning. The roadway is 25-31 feet back-to-back of curbs. On-street parking is prohibited as follows:

7th Street to 11th Street : East side
11th Street to 13th Street : Both sides
13th Street to 17th Street : East side
17th Street to 18th Street : Both sides

Angle parking is provided and permitted on the West side from 15th Street to 17th Street. The Iowa Pavement Management Program assesses the pavement condition index poor throughout the project length.

11. Project Budget:

ITEM	**COST**
Land/Site Acquisition Costs	$ 0
Construction/Materials Costs	$ 750,000
Engineering/Consulting Costs	$ 125,000
Capital Acquisition Explain:	$ 0
Other (Explain):	$ 0
	$ 0
TOTAL COST	**$ 875,000***

Local Share..... $275,000 Grant Request..... $600,000
**Local % of project...31% **Grant % of project.....69%
**Minimum Highway, Road or Street Project Cost should be no less than $200,000*
*** Please note that the maximum grant amount is 80%.*

12. Please collect traffic data on the segment of roadway that has been proposed for funding.

Traffic Data Information Summary(please attach copies of data collection reports).

Location of Data Collection: West Street at 17th Street

Dates of Data Collection	01-31-18	02-01-18
Average Daily Traffic Count	1,528 vpd	1,453 vpd
Percentage of Trucks	5%	5%
Average Speed	23.8 mph	24.8 mph

IDOT AADT Count: 2330

IDOT Count Year: 2016

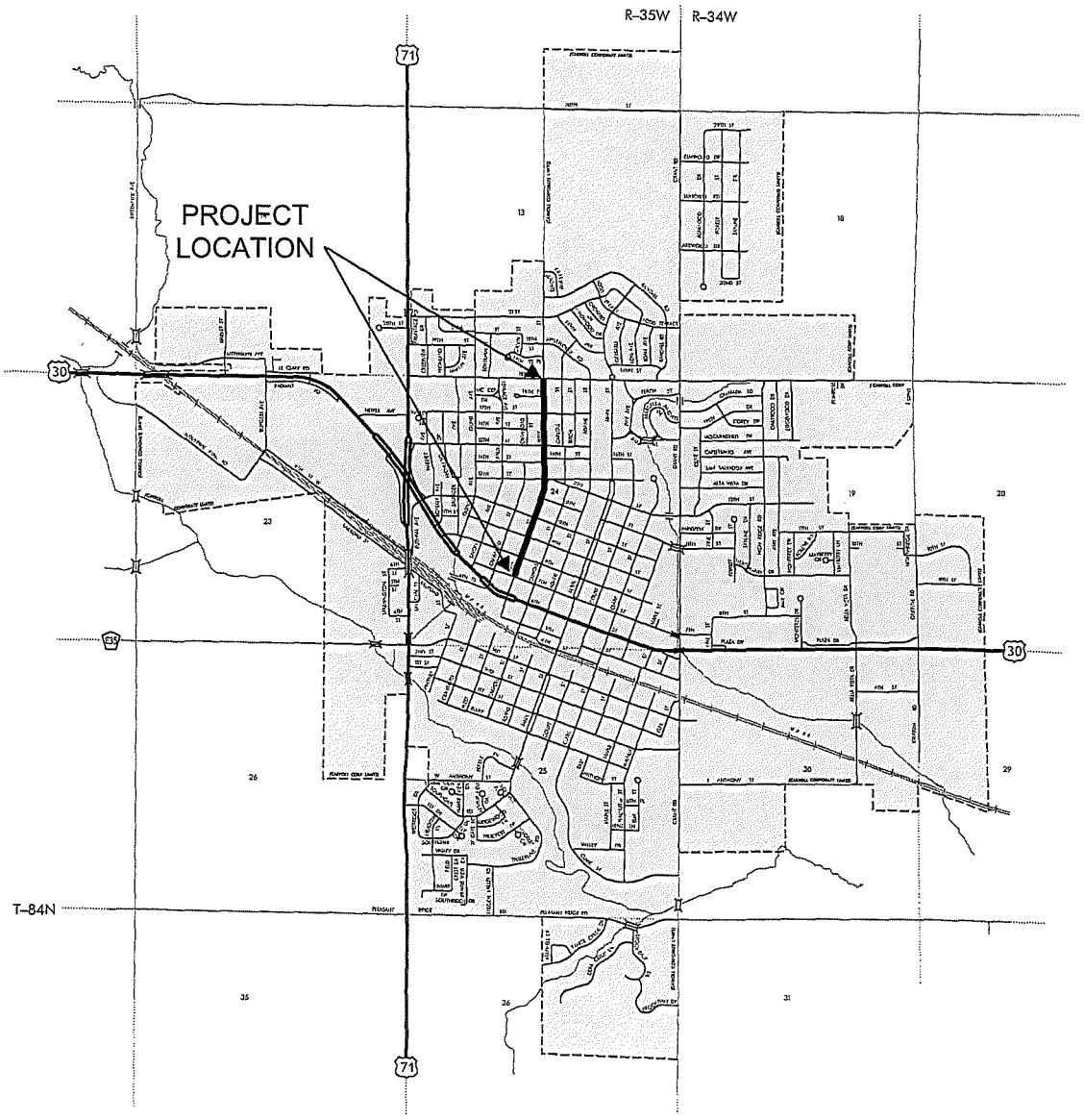
PROJECT CERTIFICATION

To the best of my knowledge and belief, all information included in this application is true and accurate, including the commitment of all physical and financial resources. This application has been duly authorized by the participating local authority. I understand the attached Resolution binds the participating local government(s) to assume responsibility for adequate maintenance of any new or improved facility.

Applicant Name (local governments sponsor): City of Carroll

_____ 02-13-18

Eric P. Jensen, Mayor



PROJECT LOCATION MAP
SURFACE TRANSPORTATION BLOCK GRANT PROGRAM APPLICATION
WEST STREET RESURFACING
7TH STREET to 18TH STREET

N

LEGEND

INTERSTATE ROUTE
FREEWAY OR EXPRESSWAY ROUTE
U.S. NUMBERED ROUTE
BUSINESS ROUTE
STATE NUMBERED ROUTE
UNSIGNED ROUTE
COUNTY NUMBERED ROUTE
SECONDARY ROAD OR ADJOINING CITY STREET
CITY STREET
PARK, INSTITUTION, OR FEDERAL ROAD
RAILROAD
CORPORATION LINE
SECTION LINE
CUL-DE-SAC
SECTION, TOWNSHIP & RANGE NUMBERS 9, T-81N, R-30W

SCALE IN MILES
0 0.1 0.2 0.3 0.4 0.5 0.75 1.0
0 0.1 0.2 0.3 0.4 0.5 1.0 1.5 2.0
SCALE IN KILOMETERS

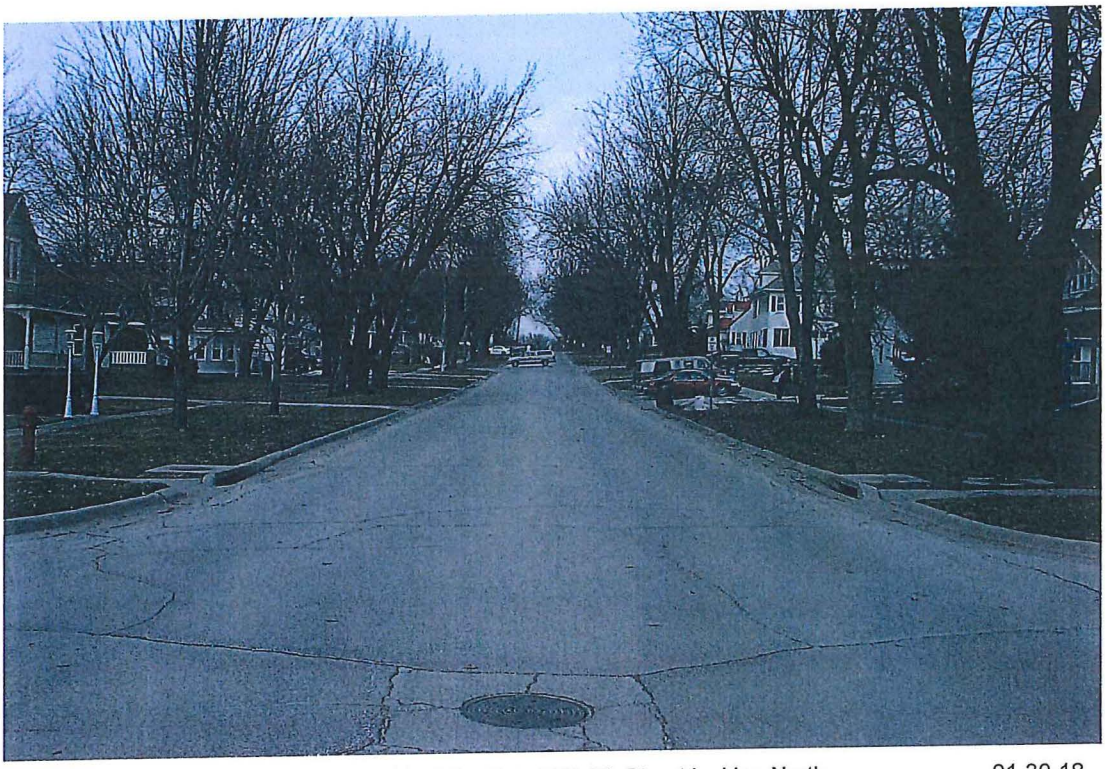
HIGHWAY AND STREET MAP OF

CARROLL
IOWA

PREPARED BY
IOWA DEPARTMENT OF TRANSPORTATION
PLANNING, PROGRAMMING, AND MODAL DIVISION
OFFICE OF SYSTEMS PLANNING
PHONE (515) 239-1664
IN COOPERATION WITH
UNITED STATES DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

14-1125

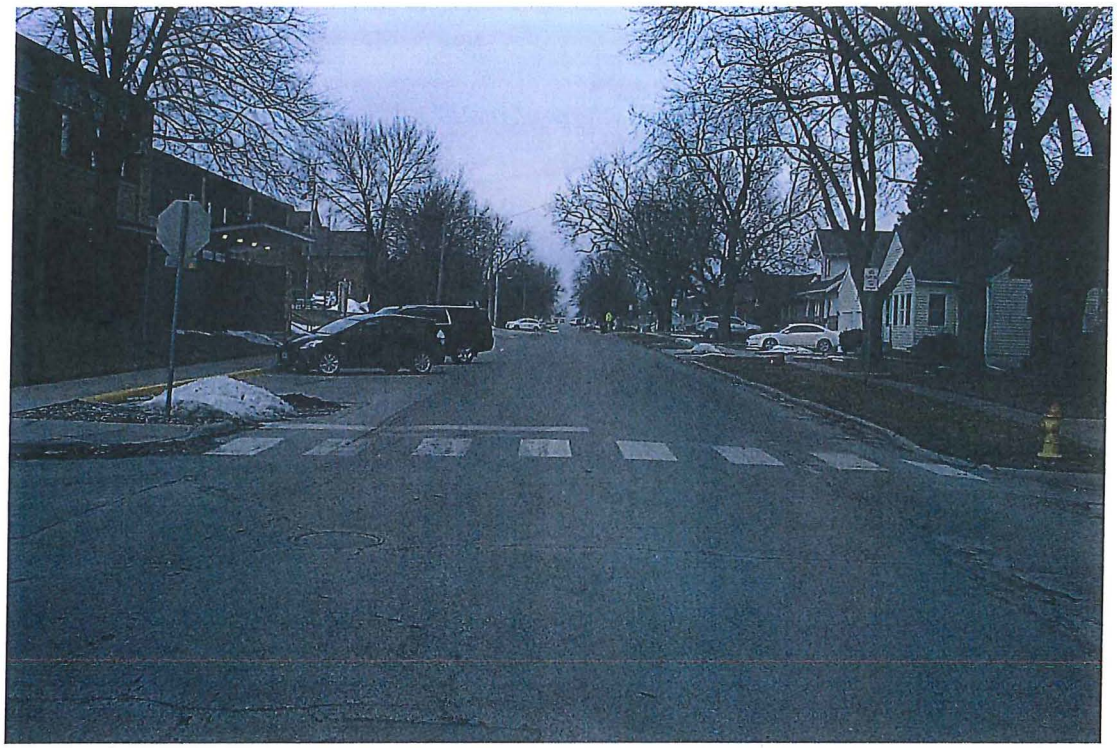
N.West Street and W. 7th Street looking North 01-30-18



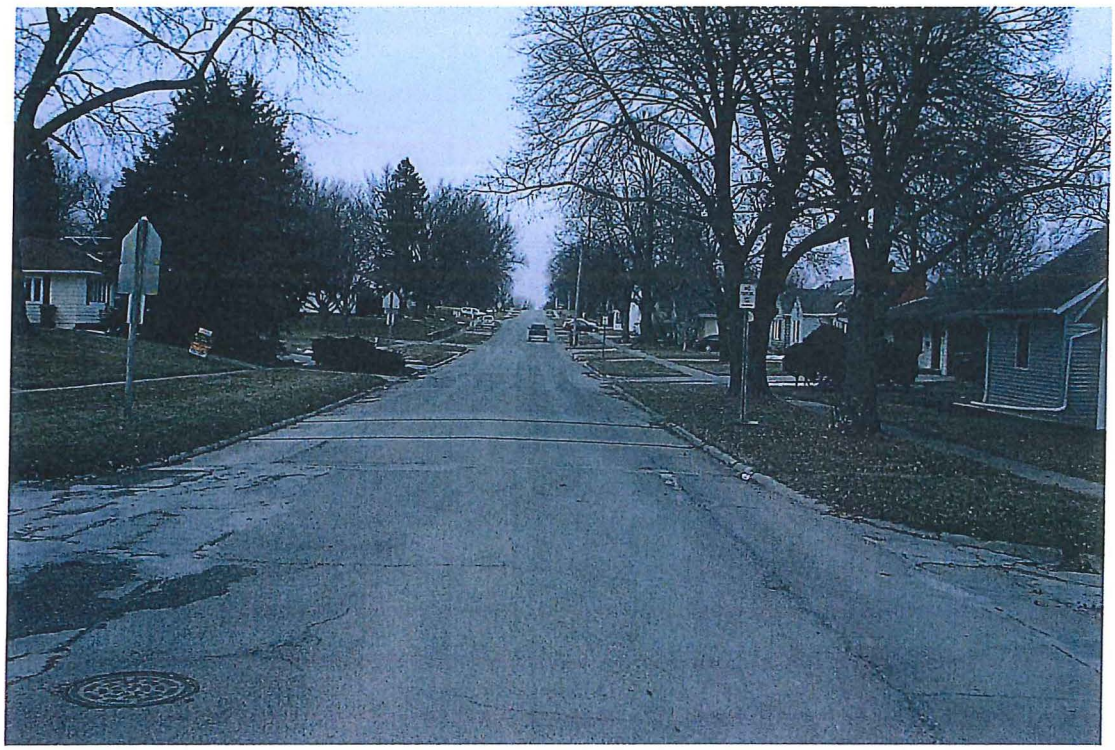
N.West Street and W. 9th Street looking North 01-30-18

N.West Street and W. 11th Street looking North 01-30-18

N.West Street and W. 13th Street looking North 01-30-18



N.West Street and W. 15th Street looking North 01-30-18



N.West Street and W. 17th Street looking North 01-30-18

Street : N. West St.
Between : 17th St. and 18th St. Place

Site: N. West St.
1/31/2018
Wednesday

Daily Classification

Combined Channels

Interval Start	Total	Bike	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	2	0	2	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	2	0	1	1	0	0	0	0	0	0	0	0	0	0
2:00 AM	2	0	0	0	0	2	0	0	0	0	0	0	0	0
3:00 AM	2	0	0	1	0	0	0	0	1	0	0	0	0	0
4:00 AM	4	0	1	2	0	1	0	0	0	0	0	0	0	0
5:00 AM	17	0	9	7	0	1	0	0	0	0	0	0	0	0
6:00 AM	65	0	45	16	1	2	0	0	1	0	0	0	0	0
7:00 AM	152	0	93	50	4	5	0	0	0	0	0	0	0	0
8:00 AM	79	0	36	37	2	3	0	0	1	0	0	0	0	0
9:00 AM	59	0	25	29	0	5	0	0	0	0	0	0	0	0
10:00 AM	68	0	37	20	0	11	0	0	0	0	0	0	0	0
11:00 AM	82	0	56	22	1	3	0	0	0	0	0	0	0	0
12:00 PM	88	0	47	37	0	4	0	0	0	0	0	0	0	0
1:00 PM	92	1	50	38	0	3	0	0	0	0	0	0	0	0
2:00 PM	81	0	47	31	0	3	0	0	0	0	0	0	0	0
3:00 PM	189	0	117	63	2	7	0	0	0	0	0	0	0	0
4:00 PM	154	0	100	50	0	4	0	0	0	0	0	0	0	0
5:00 PM	135	0	84	44	1	6	0	0	0	0	0	0	0	0
6:00 PM	109	0	74	33	0	2	0	0	0	0	0	0	0	0
7:00 PM	61	0	51	10	0	0	0	0	0	0	0	0	0	0
8:00 PM	52	0	36	16	0	0	0	0	0	0	0	0	0	0
9:00 PM	19	0	13	6	0	0	0	0	0	0	0	0	0	0
10:00 PM	12	0	10	2	0	0	0	0	0	0	0	0	0	0
11:00 PM	2	0	1	1	0	0	0	0	0	0	0	0	0	0
Total	1528	1	935	516	11	62	0	0	3	0	0	0	0	0
%		0.1	61.2	33.8	0.7	4.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0

Street : N. West St.
Between : 17th St. and 18th St. Place

Site: N. West St.
2/1/2018
Thursday

Daily Classification

Combined Channels

Interval Start	Total	Bike	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	5	0	4	1	0	0	0	0	0	0	0	0	0	0
1:00 AM	3	0	2	0	0	1	0	0	0	0	0	0	0	0
2:00 AM	2	0	1	1	0	0	0	0	0	0	0	0	0	0
3:00 AM	3	0	2	1	0	0	0	0	0	0	0	0	0	0
4:00 AM	3	0	2	1	0	0	0	0	0	0	0	0	0	0
5:00 AM	17	0	9	6	0	2	0	0	0	0	0	0	0	0
6:00 AM	33	0	22	10	1	0	0	0	0	0	0	0	0	0
7:00 AM	158	0	95	56	4	2	0	0	0	1	0	0	0	0
8:00 AM	103	0	54	45	2	2	0	0	0	0	0	0	0	0
9:00 AM	72	0	48	20	0	4	0	0	0	0	0	0	0	0
10:00 AM	57	0	30	26	0	1	0	0	0	0	0	0	0	0
11:00 AM	111	0	64	42	1	4	0	0	0	0	0	0	0	0
12:00 PM	82	0	48	27	2	5	0	0	0	0	0	0	0	0
1:00 PM	91	0	58	31	0	2	0	0	0	0	0	0	0	0
2:00 PM	76	0	42	27	0	7	0	0	0	0	0	0	0	0
3:00 PM	140	0	82	47	4	7	0	0	0	0	0	0	0	0
4:00 PM	134	0	74	55	0	5	0	0	0	0	0	0	0	0
5:00 PM	136	0	80	48	1	7	0	0	0	0	0	0	0	0
6:00 PM	77	0	52	24	1	0	0	0	0	0	0	0	0	0
7:00 PM	70	0	41	25	0	4	0	0	0	0	0	0	0	0
8:00 PM	45	0	31	14	0	0	0	0	0	0	0	0	0	0
9:00 PM	14	0	12	2	0	0	0	0	0	0	0	0	0	0
10:00 PM	16	0	14	2	0	0	0	0	0	0	0	0	0	0
11:00 PM	5	0	2	3	0	0	0	0	0	0	0	0	0	0
Total	1453	0	869	514	16	53	0	0	0	1	0	0	0	0
%		0.0	59.8	35.4	1.1	3.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

Street : N. West St.
Between : 17th St. and 18th St. Place

Site: N. West St.
1/31/2018
Wednesday

Daily Speed

Combined Channels

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	Avg.
12:00 AM	2	0	0	1	1	0	0	0	0	0	0	0	0	0	25.8
1:00 AM	2	0	0	0	2	0	0	0	0	0	0	0	0	0	26.6
2:00 AM	2	1	1	0	0	0	0	0	0	0	0	0	0	0	14.8
3:00 AM	2	0	1	1	0	0	0	0	0	0	0	0	0	0	19.7
4:00 AM	4	0	0	2	2	0	0	0	0	0	0	0	0	0	25.3
5:00 AM	17	0	0	7	7	3	0	0	0	0	0	0	0	0	27.0
6:00 AM	65	3	17	22	20	2	1	0	0	0	0	0	0	0	22.7
7:00 AM	152	9	22	47	63	11	0	0	0	0	0	0	0	0	23.8
8:00 AM	79	4	11	12	38	13	1	0	0	0	0	0	0	0	25.6
9:00 AM	59	7	9	15	23	4	1	0	0	0	0	0	0	0	23.9
10:00 AM	68	4	8	26	27	3	0	0	0	0	0	0	0	0	23.8
11:00 AM	82	7	5	24	34	11	1	0	0	0	0	0	0	0	24.9
12:00 PM	88	3	14	29	36	5	1	0	0	0	0	0	0	0	24.0
1:00 PM	92	9	24	22	27	9	1	0	0	0	0	0	0	0	22.9
2:00 PM	81	8	5	22	36	9	1	0	0	0	0	0	0	0	24.8
3:00 PM	189	8	32	55	78	16	0	0	0	0	0	0	0	0	24.0
4:00 PM	154	6	19	57	60	12	0	0	0	0	0	0	0	0	24.1
5:00 PM	135	12	25	49	41	6	1	0	0	0	0	1	0	0	23.0
6:00 PM	109	9	18	35	44	3	0	0	0	0	0	0	0	0	23.2
7:00 PM	61	7	8	29	15	2	0	0	0	0	0	0	0	0	22.4
8:00 PM	52	4	16	17	13	2	0	0	0	0	0	0	0	0	21.9
9:00 PM	19	0	4	9	6	0	0	0	0	0	0	0	0	0	23.7
10:00 PM	12	0	1	4	5	2	0	0	0	0	0	0	0	0	25.4
11:00 PM	2	0	0	0	2	0	0	0	0	0	0	0	0	0	26.3
Total	1528	101	240	485	580	113	8	0	0	0	0	1	0	0	23.8
%		6.6	15.7	31.7	38.0	7.4	0.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	

Average (Mean) 23.8 mph **Minimum** 10.4 mph **Maximum** 64.8 mph **Pace Range** 20.1 - 30.1 mph 1076 vehicles (70.4 %)

Percentile Speeds	10%	15%	50%	85%	90%
(mph)	16.1	17.5	24.6	28.4	29.5

Speeds Exceeded	25 mph	35 mph	45 mph	55 mph	65 mph	75 mph
	45.9 % (702)	0.6 % (9)	0.1 % (1)	0.1 % (1)	0.0 % (0)	0.0 % (0)

Street : N. West St.
Between : 17th St. and 18th St. Place

Site: N. West St.
2/1/2018
Thursday

Daily Speed

Combined Channels

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200	Avg.
12:00 AM	5	0	0	3	2	0	0	0	0	0	0	0	0	0	24.4
1:00 AM	3	1	0	1	1	0	0	0	0	0	0	0	0	0	21.5
2:00 AM	2	0	1	1	0	0	0	0	0	0	0	0	0	0	19.9
3:00 AM	3	0	1	1	1	0	0	0	0	0	0	0	0	0	22.9
4:00 AM	3	1	0	0	1	1	0	0	0	0	0	0	0	0	23.9
5:00 AM	17	0	1	3	11	1	1	0	0	0	0	0	0	0	26.9
6:00 AM	33	1	3	11	14	3	0	1	0	0	0	0	0	0	25.6
7:00 AM	158	5	18	67	61	6	0	0	0	0	0	1	0	0	24.2
8:00 AM	103	7	17	30	38	9	1	0	0	0	0	1	0	0	24.2
9:00 AM	72	6	16	15	31	4	0	0	0	0	0	0	0	0	23.3
10:00 AM	57	4	10	12	22	8	1	0	0	0	0	0	0	0	24.3
11:00 AM	111	0	15	42	42	12	0	0	0	0	0	0	0	0	24.7
12:00 PM	82	5	8	15	41	12	1	0	0	0	0	0	0	0	25.6
1:00 PM	91	1	3	32	41	14	0	0	0	0	0	0	0	0	26.3
2:00 PM	76	5	6	12	33	17	3	0	0	0	0	0	0	0	26.3
3:00 PM	140	8	17	35	66	13	1	0	0	0	0	0	0	0	24.8
4:00 PM	134	6	18	38	61	11	0	0	0	0	0	0	0	0	24.4
5:00 PM	136	9	16	37	58	16	0	0	0	0	0	0	0	0	24.4
6:00 PM	77	1	8	22	38	6	2	0	0	0	0	0	0	0	25.5
7:00 PM	70	2	9	22	32	3	0	0	1	1	0	0	0	0	24.9
8:00 PM	45	2	6	12	18	7	0	0	0	0	0	0	0	0	24.8
9:00 PM	14	1	1	6	6	0	0	0	0	0	0	0	0	0	23.5
10:00 PM	16	0	2	3	9	2	0	0	0	0	0	0	0	0	26.3
11:00 PM	5	0	0	0	3	1	0	1	0	0	0	0	0	0	31.2
Total	1453	65	176	420	630	146	10	2	1	1	0	2	0	0	24.8
%		4.5	12.1	28.9	43.4	10.0	0.7	0.1	0.1	0.1	0.0	0.1	0.0	0.0	

Average (Mean) 24.8 mph **Minimum** 10.8 mph **Maximum** 64.8 mph **Pace Range** 20.1 - 30.1 mph 1063 vehicles (73.2 %)

Percentile Speeds	10%	15%	50%	85%	90%
(mph)	17.3	19.4	25.5	29.2	30.1

Speeds Exceeded	25 mph	35 mph	45 mph	55 mph	65 mph	75 mph
	54.5 % (792)	1.1 % (16)	0.3 % (4)	0.1 % (2)	0.0 % (0)	0.0 % (0)