CITY OF WEST DES MOINES
CITY COUNCIL MEETING COMMUNICATION

DATE: **May 15, 2017**

ITEM:

Public Hearing (5:35 p.m.)
2017 HMA Resurfacing Program

FINANCIAL IMPACT:

The Engineering Estimate of Construction Cost was revised slightly to reflect items addressed in Addendum No. 1 and was estimated to be $2,285,022.09 for the 2017 HMA Resurfacing Program. There were two (2) bids submitted with the low bid of $2,514,612.50 being submitted by Des Moines Asphalt & Paving of Ankeny, Iowa. Attached is an analysis from the project engineer which discusses the bid results. Payments will be made from budgeted account no. 500.000.000.5250.490 with the ultimate funding intended to come from Road Use Tax.

BACKGROUND:

The 2017 HMA Resurfacing Program includes Portland Cement Concrete (PCC) street repairs and hot mixed asphalt overlays at various locations throughout the City of West Des Moines (see attached map). The project is anticipated to be completed by November 22, 2017.

OUTSTANDING ISSUES:

None.

RECOMMENDATION:

City Council Adopt:

- Resolution adopting Plans, Specifications, Form of Contract, and Estimate of Costs for 2017 HMA Resurfacing Program;
- Motion receiving and filing Report of Bids;
- Resolution awarding the construction contract to Des Moines Asphalt & Paving.

Lead Staff Member: **Brian J. Hemesath, P.E., Interim City Engineer**

STAFF REVIEWS

Department Director	Brian J. Hemesath, P.E., Interim City Engineer
Appropriations/Finance	Tim Stiles, Finance Director
Legal	Richard Scieszinski, City Attorney
Agenda Acceptance	

PUBLICATION(S) (if applicable)

Published In	Des Moines Register
Dates(s) Published	May 5, 2017

SUBCOMMITTEE REVIEW (if applicable)

Committee	Public Services		
Date Reviewed	May 8, 2017		
Recommendation	Yes	No	Split

RESOLUTION APPROVING ADOPTING PLANS, SPECIFICATIONS, FORM OF CONTRACT, AND ESTIMATE OF COST

WHEREAS, on April 17, 2017, Plans, Specifications, Form of Contract, and Estimate of Cost were filed with the City Clerk for the following described public improvement:

2017 HMA Resurfacing Program
Project No. 0510-003-2017

and,

WHEREAS, notice of hearing on Plans, Specifications, Form of Contract, and Estimate of Cost for said public improvements were published as required by law;

therefore,

BE IT FURTHER RESOLVED BY THE CITY COUNCIL OF THE CITY OF WEST DES MOINES, that the Plans, Specifications, Form of Contract, and Estimate of Costs for said Public Improvement are hereby approved.

PASSED AND APPROVED on this **15th** day of **May, 2017.**

_____
Steven K. Gaer, Mayor

ATTEST:

_____
Ryan T. Jacobson, City Clerk

RESOLUTION APPROVING THE AWARDING OF A CONTRACT

WHEREAS, the City Council of the City of West Des Moines has heretofore directed advertisement for bids for the following described public improvement:

2017 HMA Resurfacing Program
Project No. 0510-003-2017

and,

WHEREAS, bids have been received and opened by the City Clerk and placed on file by the City Council; and,

WHEREAS, the bid of Des Moines Asphalt & Paving in the amount of $2,514,612.50 was the lowest responsible bid received for said public improvement;

therefore,

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WEST DES MOINES, IOWA, that a contract for the 2017 HMA Resurfacing Program is hereby awarded to Des Moines Asphalt & Paving in the amount of $2,514,612.50 and the bond of said bidder for the project is hereby fixed in the same amount.

BE IT FURTHER RESOLVED that the City Engineer is authorized and directed to return bid bond(s) and/or check(s) to any unsuccessful bidder.

BE IT FURTHER RESOLVED that work on said project may commence as soon as the final contract and bond have been approved by the City Engineer and have been signed by the City Clerk and after the contractor is given a written notice to proceed by the City Engineer.

PASSED AND ADOPTED on this **15th** day of **May, 2017.**

_____
Steven K. Gaer, Mayor

ATTEST:

_____
Ryan T. Jacobson, City Clerk

ISG

May 10, 2017

Jason Schlickbernd, P.E.
Principal Engineer
City of West Des Moines
4200 Mills Civic Parkway
West Des Moines, IA 50265

RE: 2017 HMA Resurfacing Program
0510-003-2017
Recommendation for Award

Dear Jason:

The West Des Moines **2017 HMA Resurfacing Program (0510-003-2017)** bids were opened on May 10, 2017 at City Hall. Des Moines Asphalt & Paving of Ankeny, Iowa submitted the lowest responsive bid, in the amount $2,514,612.50.

On April 17, 2017 the City Council set the project bid date of May 10, 2017. The project notice was published and notices were sent to contractors. There were ten (10) entities that received copies of the plans and specifications. Two (2) companies submitted acceptable bid proposals, with one (1) minor irregularity. Des Moines Asphalt and Paving did not provide a date for the accompanying Bid on the Bid Bond. Des Moines Asphalt and Paving has delivered an updated Bid Bond correcting this irregularity and ISG recommends that this minor irregularity be waived.

The engineer's opinion of probable construction cost for this project was $2,285,022.09, adjusted per Addendum No. 1. The bid price is 10.05% above the engineer's opinion of probable construction cost. Three (3) main factors of the project contribute to this overage:

1. Cost of Intake Adjustment Major: Items estimated at $2,500 to $3,500 per structure. Bids received ranged from $5,600 to $9,500. These items contributed $84,700 to the difference in bid price vs. estimate.
2. Hot Mix Asphalt: Items estimated at $99 to $104 per ton of HMA. Bids received are $110 to $115 per ton. In discussion with Des Moines Asphalt and Paving, the increase in costs on this project compared to previous years is due to the complexity of the 2017 HMA project, including amount of night work requiring overtime pay and work at the railroad crossings. These items contributed $132,988 to the difference in bid price vs. estimate.
3. Traffic Control: Item estimated at $60,000. Bid received at $125,000. In discussion with Des Moines Asphalt and Paving, the increase of this cost was due to the lack of a mobilization bid item. Mobilization was not included in the project at request of the City

While these factors were the main contributor for the overage, the street patching and repair work for the project is $49,192 under the engineer's estimate of construction cost. ISG recommends that the City Council consider awarding the contract for the **2017 HMA Resurfacing Program (0510-003-2017)** to Des Moines Asphalt & Paving of Ankeny, Iowa for $2,514,612.50.

Attached is a bid tabulation sheet for your review.

Please contact me at 515.243.9143 with any questions or if there is any further information I can provide.

Thank you,

Nick Frederiksen
Project Manager + Construction Administrator
Civil Engineering Group

BID TABULATION

City of West Des Moines

2017 HMA Resurfacing Program

ISG

Project Number: 17-20058

Bid Letting Time & Date: 2:00 p.m. - Wednesday, May 10, 2017

Bid Letting Location: City of West Des Moines 4200 Mills Civic Parkway Suite 2B West Des Moines, IA 50265

West Des Moines Project No. 0510-003-2017

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE ACCOUNT OF BIDS RECEIVED.

DATE: May 10, 2017 LICENSED NUMBER: 20894

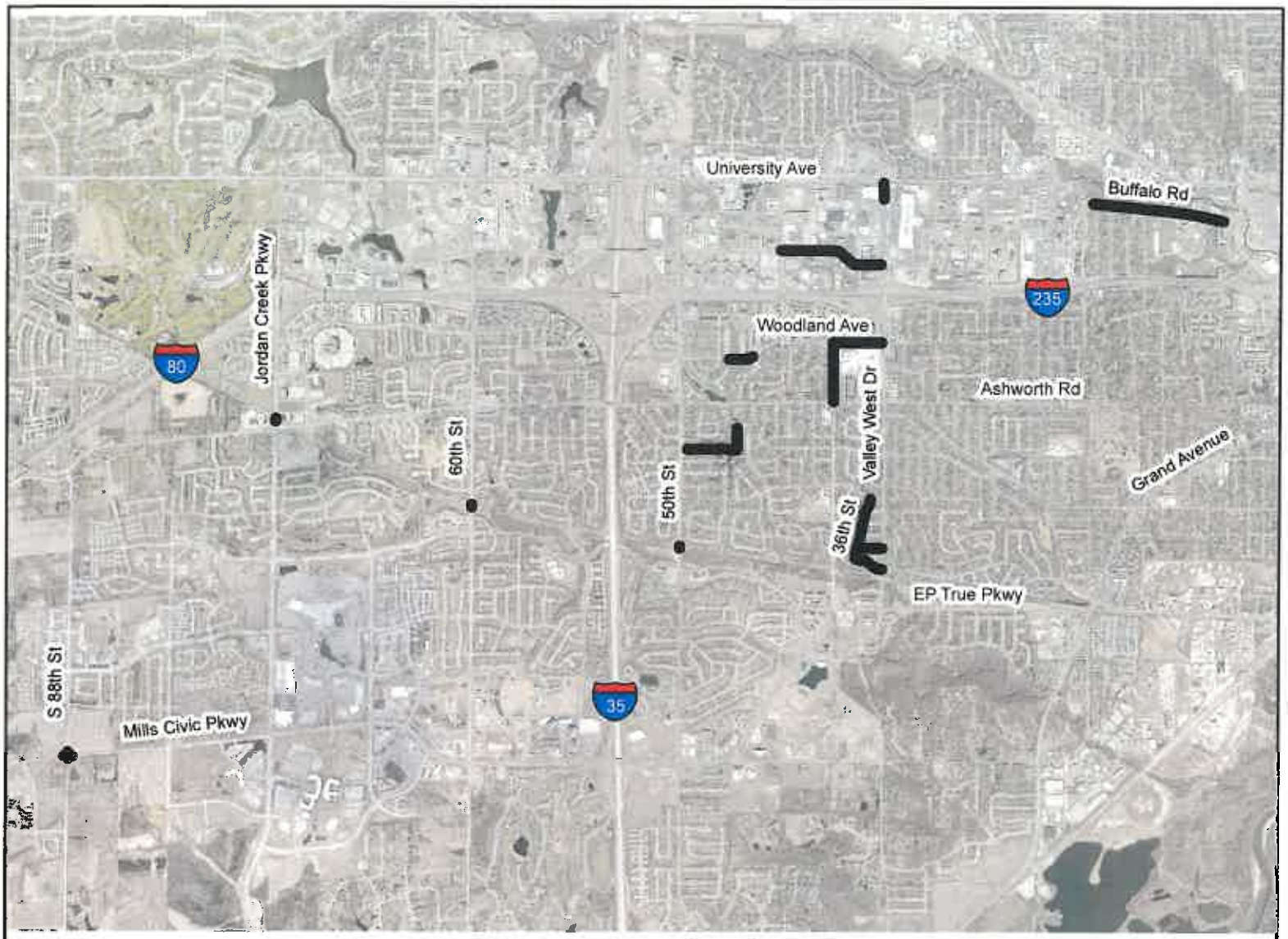
				CMG Midwest, Inc. dba Des Moines Asphalt & Paving 2401 SE Tones Dr., Ste. 13 Ankeny, IA Bid Bond 10%		Grimes Asphalt & Paving P O Box 3374 Des Moines, IA Bid Bond 10%		Engineer's Estimate	
Item No.	Construction Item	Unit	Quantity	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
FIXTURE ADJUSTMENT									
1	MANHOLE ADJUSTMENT, MINOR	EA	33	$ 3,000.00	$ 99,000.00	$ 2,625.00	$ 86,625.00	$ 2,500.00	$ 82,500.00
2	MANHOLE ADJUSTMENT, MAJOR	EA	3	$ 6,200.00	$ 18,600.00	$ 6,250.00	$ 18,750.00	$ 3,500.00	$ 10,500.00
3	INTAKE ADJUSTMENT MINOR, CASTINGS, M-A AND M-C (1-1/2" RISERS)	EA	12	$ 400.00	$ 4,800.00	$ 1,500.00	$ 18,000.00	$ 400.00	$ 4,800.00
4	INTAKE ADJUSTMENT MINOR, CASTINGS, M-D AND M-E (1-1/2" RISERS)	EA	12	$ 750.00	$ 9,000.00	$ 2,875.00	$ 34,500.00	$ 700.00	$ 8,400.00
5	INTAKE ADJUSTMENT, MAJOR, M-A	EA	6	$ 5,600.00	$ 33,600.00	$ 6,250.00	$ 37,500.00	$ 2,500.00	$ 15,000.00
6	INTAKE ADJUSTMENT, MAJOR, M-C	EA	2	$ 7,250.00	$ 14,500.00	$ 6,250.00	$ 12,500.00	$ 2,500.00	$ 5,000.00
7	INTAKE ADJUSTMENT, MAJOR SPECIAL M-C	EA	2	$ 8,000.00	$ 16,000.00	$ 3,125.00	$ 6,250.00	$ 2,500.00	$ 5,000.00
8	INTAKE ADJUSTMENT, MAJOR, M-D	EA	3	$ 8,700.00	$ 26,100.00	$ 6,250.00	$ 18,750.00	$ 3,500.00	$ 10,500.00
9	INTAKE ADJUSTMENT, MAJOR, M-E	EA	5	$ 9,500.00	$ 47,500.00	$ 6,250.00	$ 31,250.00	$ 3,500.00	$ 17,500.00
10	WATER VALVE BOX ADJUSTMENT	EA	4	$ 75.00	$ 300.00	$ 375.00	$ 1,500.00	$ 400.00	$ 1,600.00
11	WATER VALVE BOX ADJUSTMENT, RETRO TO SLIDE TYPE TOP REPLACEMENT	EA	8	$ 1,700.00	$ 13,600.00	$ 938.00	$ 7,504.00	$ 1,500.00	$ 12,000.00
EXCAVATION, BACKFILL, GRADING AND SHOULDERS									
12	GRANULAR SHOULDERS	TN	50	$ 65.00	$ 3,250.00	$ 67.00	$ 3,350.00	$ 75.00	$ 3,750.00
STREET PATCHING AND REPAIRS									
13	6" SIDEWALK REPLACEMENT	SY	35	$ 90.00	$ 3,150.00	$ 157.00	$ 5,495.00	$ 70.00	$ 2,450.00
14	6" DRIVEWAY REPLACEMENT	SY	100	$ 90.00	$ 9,000.00	$ 104.00	$ 10,400.00	$ 80.00	$ 8,000.00
15	PCC CURB AND GUTTER REPLACEMENT	LF	192	$ 75.00	$ 14,400.00	$ 78.00	$ 14,976.00	$ 55.00	$ 10,560.00
16	DETECTABLE WARNINGS	SF	32	$ 45.00	$ 1,440.00	$ 38.00	$ 1,216.00	$ 55.00	$ 1,760.00
17	FULL DEPTH PATCH, M-4 MIX, 7" MINIMUM	SY	2515	$ 106.00	$ 266,590.00	$ 133.00	$ 334,495.00	$ 125.00	$ 314,375.00
18	FULL DEPTH PATCHES, M-4 MIX, 8", PCC	SY	843	$ 115.00	$ 96,945.00	$ 153.00	$ 128,979.00	$ 128.00	$ 107,904.00
19	FULL DEPTH PATCHES, M-4 MIX, 9", PCC	SY	1095	$ 120.00	$ 131,400.00	$ 158.00	$ 173,010.00	$ 131.00	$ 143,445.00
20	FULL DEPTH PATCHES, M-4 MIX, 10", PCC	SY	54	$ 150.00	$ 8,100.00	$ 358.00	$ 19,332.00	$ 134.00	$ 7,236.00
21	FULL DEPTH PATCHES, 7", 5 HOUR MIX	SY	29	$ 135.00	$ 3,915.00	$ 143.00	$ 4,147.00	$ 132.00	$ 3,828.00
22	FULL DEPTH PATCHES, 8", 5 HOUR MIX	SY	29	$ 143.00	$ 4,147.00	$ 153.00	$ 4,437.00	$ 137.00	$ 3,973.00
23	FULL DEPTH PATCHES, 9", 5 HOUR MIX	SY	185	$ 156.00	$ 28,860.00	$ 309.00	$ 57,165.00	$ 147.00	$ 27,195.00
24	FULL DEPTH PATCHES, 10", 5 HOUR MIX	SY	29	$ 178.00	$ 5,162.00	$ 205.00	$ 5,945.00	$ 153.00	$ 4,437.00
25	FULL DEPTH PATCHES, HMA	SY	25	$ 190.00	$ 4,750.00	$ 190.00	$ 4,750.00	$ 110.00	$ 2,750.00
26	PARTIAL DEPTH PATCHES, HMA	SY	125	$ 60.00	$ 7,500.00	$ 120.00	$ 15,000.00	$ 60.00	$ 7,500.00
27	REMOVAL OF PAVEMENT	SY	148	$ 50.00	$ 7,400.00	$ 64.00	$ 9,472.00	$ 10.00	$ 1,480.00
28	CRACKING AND SEATING	SY	0	$ -	$ -	$ -	$ -	$ -	$ -
29	SUBGRADE PREPARATION	SY	296	$ 13.00	$ 3,848.00	$ 12.00	$ 3,552.00	$ 5.00	$ 1,480.00
30	MODIFIED SUBBASE	TON	99	$ 50.00	$ 4,950.00	$ 54.00	$ 5,346.00	$ 24.00	$ 2,376.00
SURFACE PREPARATION									
31	SURFACE CLEANING/TACK COAT	SY	62832	$ 0.70	$ 43,982.40	$ 0.50	$ 31,416.00	$ 0.62	$ 38,955.84
32	TACK COAT	SY	41110	$ 0.25	$ 10,277.50	$ 0.25	$ 10,277.50	$ 0.25	$ 10,277.50
33	SURFACE MILLING	SY	12819	$ 4.00	$ 51,276.00	$ 7.50	$ 96,142.50	$ 4.50	$ 57,685.50
34	GRINDING - BUTT JOINTS	SY	6597	$ 10.00	$ 65,970.00	$ 11.00	$ 72,567.00	$ 10.50	$ 69,268.50

BID TABULATION

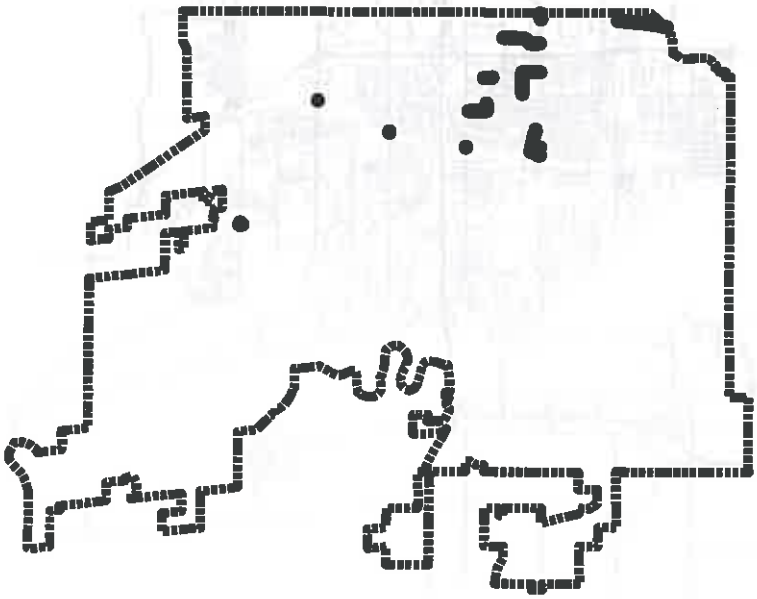
City of West Des Moines

2017 HMA Resurfacing Program

HOT MIX ASPHALT										
35	HOT MIX ASPHALT HIGH TRAFFIC, LEVELING COURSE, 1/2 IN. MIX, FRICTION L-3, 65% CRUSHED	TON	298	$ 110.00	$ 32,780.00	$ 123.00	$ 36,654.00	$ 99.00	$ 29,502.00
36	HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-3, 65% CRUSHED	TON	2556	$ 115.00	$ 293,940.00	$ 123.00	$ 314,388.00	$ 99.00	$ 253,044.00
37	HOT MIX ASPHALT HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX, FRICTION L-3, 75% CRUSHED	TON	3764	$ 115.00	$ 432,860.00	$ 123.00	$ 462,972.00	$ 104.00	$ 391,456.00
38	HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-3, 75% CRUSHED	TON	3670	$ 115.00	$ 422,050.00	$ 123.00	$ 451,410.00	$ 104.00	$ 381,680.00
39	BASE WIDENING, 8.5 INCH HOT MIX ASPHALT MIXTURE	SY	128	$ 125.00	$ 16,000.00	$ 93.00	$ 11,904.00	$ 70.00	$ 8,960.00
TRAFFIC CONTROL									
40	TRAFFIC CONTROL	LS	1	$ 125,000.00	$ 125,000.00	$ 77,500.00	$ 77,500.00	$ 60,000.00	$ 60,000.00
41	TRAFFIC SIGNAL, 2-WAY	DAY	60	$ 138.89	$ 8,333.40	$ 156.25	$ 9,375.00	$ 300.00	$ 18,000.00
42	FLAGGER	DAY	25	$ 450.00	$ 11,250.00	$ 450.00	$ 11,250.00	$ 425.00	$ 10,625.00
TRAFFIC SIGNAL									
43	TRAFFIC DETECTION LOOPS	EA	22	$ 1,650.00	$ 36,300.00	$ 1,875.00	$ 41,250.00	$ 1,000.00	$ 22,000.00
PAVEMENT MARKINGS									
44	PERMANENT PAINTED PAVEMENT MARKINGS	LF	14474	$ 0.35	$ 5,065.90	$ 0.75	$ 10,855.50	$ 1.85	$ 26,776.90
45	TEMPORARY PAINTED PAVEMENT MARKINGS	LF	12401	$ 0.30	$ 3,720.30	$ 0.35	$ 4,340.35	$ 1.85	$ 22,941.85
46	PERMANENT SYMBOLS AND LEGENDS, PREFORMED THERMOPLASTIC MARKING MATERIAL	EA	86	$ 500.00	$ 43,000.00	$ 500.00	$ 43,000.00	$ 425.00	$ 36,550.00
STREET PATCHING AND PAVEMENT REPAIR									
47	RAILROAD PROTECTIVE LIABILITY INSURANCE	LS	1	$ 25,000.00	$ 25,000.00	$ 18,750.00	$ 18,750.00	$ 20,000.00	$ 20,000.00
	TOTAL CONSTRUCTION COST				**$ 2,514,612.50**		**$ 2,778,247.85**		**$2,285,022.09**



VICINITY MAP



LEGEND

PROJECT LOCATION

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W E
S

THE CITY OF WEST DES MOINES

PROJECT:

2017 HMA Resurfacing Program

LOCATION:

Various Locations Around WDM

DRAWN BY: JDR	DATE: 4/20/2017	PROJECT: 0510-003-2017	SHT. 1 of 1