

**Public Works Memorandum  
NO. 2009-40**

**DATE:** June 4, 2009

**TO:** Honorable Mayor McElroy and City Council

**FROM:** Ryan P. McCrady, City Manager  
Richard G. Marley, P.E., Public Works Director

**SUBJECT:** Street Reconstruction, City Project 09-24

**SUMMARY RECOMMENDATION:**

It is recommended by staff that the City Council approve the attached resolution awarding the contract for Street Reconstruction, City Project 09-24, to Dunn Company, A Division of Tyrolt, Inc., as the lowest, responsible bidder in the amount of \$735,311.16, and that the Mayor be authorized to execute the contract, and the City Clerk to attest.

**BACKGROUND:**

**Prior Council Action**

On March 28, 2009, in Study Session for the Capital Improvement Plan review, City Council received maps and location tables identifying streets recommended for improvement during 2009. The Street Reconstruction Project is an annual street improvement project for the City.

**Streets Inspected Annually**

The Engineering Division inspects and rates approximately 1/2 of the City's streets on a yearly basis. The results of these inspections are input into a computer database which is used to project the future condition of the streets based on their current condition, historical condition, surface type (i.e. brick, concrete, asphalt, etc.), average daily traffic, and traffic type (i.e. trucks, cars, etc.). This data is then paired with available funding and is used as a basis to aid City Engineering in the preparation of the City's yearly street improvement program. Staff then determines which streets need to have the surface restored or be totally rebuilt.

**Project Description**

This year's Street Reconstruction Project generally involves the placement of a 1 to 2 inch asphalt surface course on an existing paved surface. A portion of the existing pavement is often milled off to reduce the impact of the overlay on existing curbs and driveways. If additional structural capacity is desired in the pavement, no milling may take place prior to the overlay.

This year microsurfacing and cape seal pavement improvement processes have been added to the annual project. These processes further extend pavement life and delay the need for more expensive mill and overlay work. Microsurfacing places a thin, bituminous slurry on the surface of the pavement that cures to create a smooth durable surface. A cape seal consists of placing a traditional oil and chip surface prior to placing the smooth microsurfacing top coat. When performed at the right time, microsurfacing and cape seal treatments can last up to 10 years.

The two main purposes of the street reconstruction project are (1) to increase the useful life of a pavement in advance of its deteriorating to a condition that would require the complete replacement of the street; and (2) to improve the street's ride ability. Mill and overlay work requires a sound pavement substructure so candidate streets are not selected on a "worst first" basis but rather on a "life extension" basis. This year's program includes approximately 5.0 centerline miles of streets in the City. A listing of streets in this year's project is attached.

The project plans and specifications were prepared by Engineering Division staff. The project was advertised May 13, 2009, and bids were opened June 1, 2009. The results for the letting are as follows:

<u>Bidder</u>	<u>Bid Price</u>	<u>Compared to Engineer's Est. Over (-Under)</u>
Engineer's Estimate	\$601,764.38	----
Dunn Company, A Division of Tyrolt, Inc.	\$735,311.16	22.19%
Illinois Valley Paving Co.	\$778,287.35	29.33%

Dunn Company is in compliance with the City's Responsible Bidder's Ordinance and has complied with the Illinois Prevailing Wage Act for many years. Dunn provided the low bid for the proposed work and has performed this work well in past years. In spite of the work Engineering staff puts in to stay in touch with the price of materials, particularly petroleum based materials, the volatile market provided bids higher than those anticipated by staff. The unit prices provided for the work are in line with current market rates. Staff recommends the City Council approve a contract with Dunn Company to perform the Street Reconstruction project.

**POTENTIAL OBJECTION:** There are no known objections to this resolution and bid award.

**INPUT FROM OTHER SOURCES:** None

**STAFF REFERENCE:** Richard Marley, Public Works Director and Matt Newell, City Engineer. Richard Marley will be in attendance at the City Council meeting to answer any questions of the Council on this item.

**BUDGET/TIME IMPLICATIONS:**

**Budget Impact**

Funding for this project is budgeted in the General Street Capital Fund. The recommended low bid amount is \$735,311.16. Additional funds will be allocated from concrete street projects in the Capital Improvement Plan.

The project should begin in June and be completed by September, 2009.

**Staff Impact**

Staff time has been allocated for this project in the Capital Improvement Plan.

This memorandum was prepared by Kevin Meachum, Engineering Technician III, and reviewed by Matt Newell, City Engineer.

Attach: 4

cc: John Smith, Assistant City Manager for Public Services  
Dick Borders, Municipal Services Manager  
Dan Mendenall, Streets and Sewers Supervisor  
Jerry Nihiser, Traffic and Parking Supervisor  
Bobby Davidson, Engineering Technician Supervisor  
Dunn Company, A Division of Tyrolt, Inc.  
Illinois Valley Paving Company

RESOLUTION NO. \_\_\_\_\_

**RESOLUTION ACCEPTING THE BID AND AUTHORIZING  
THE EXECUTION OF A CONTRACT FOR  
STREET RECONSTRUCTION, CITY PROJECT 09-24**

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**BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DECATUR,  
ILLINOIS:**

Section 1. That the tabulation of bids received for City Project 09-24, Street Reconstruction, and presented herewith, be received and placed on file.

Section 2. That the bid of Dunn Company, A Division of Tyrolt, Inc., be accepted and a contract awarded, accordingly.

Section 3. That the Mayor and City Clerk be, and they are hereby authorized and directed to execute a contract between the City of Decatur, Illinois, and Dunn Company, A Division of Tyrolt, Inc., for said plan for their bid price of \$735,311.16.

PRESENTED and ADOPTED this 15th day of June, 2009.

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Michael T. McElroy, Mayor

ATTEST:

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Celeste F. Harris, City Clerk

Project Name: Street Reconstruction

Project Number: 09-24

Bid Date: Monday, June 1, 2009  
Time: 10:00 A.M.

Fund: Capital Street Projects

Organization Code: 45484516  
Object Code: 489070

Engineer's Estimate  
City Engineering Division

Dunn Company  
A Division of Tyrol, Inc.  
724 N. Mercer Street  
Decatur, IL 62522

Illinois Valley Paving Co.  
3151 Robbins Road  
Springfield, IL 62704

Item Number	Pay Item	Quantity	Unit	Unit Price	Total	Unit Price	Total	Unit Price	Total
30103000	SHAPING AND GRADING ROADWAY	2,666.67	SQ YD	\$3.38	\$9,013.34	\$0.95	\$2,533.34	\$3.94	\$10,506.68
40300100	BITUMINOUS MATERIAL (PRIME COAT) CRS-2	400.00	GAL	\$2.50	\$1,000.00	\$2.95	\$1,180.00	\$3.10	\$1,240.00
40300100	BITUMINOUS MATERIAL (PRIME COAT) HFRS-2	2,305.55	GAL	\$2.80	\$6,455.54	\$2.95	\$6,801.37	\$3.10	\$7,147.21
40300600	SEAL COAT AGGREGATE, CA 16	130.78	TON	\$60.48	\$7,909.57	\$46.00	\$6,015.88	\$48.30	\$6,316.67
40600100	BITUMINOUS MATERIAL (PRIME COAT) RC70/CSS-1h	3,619.88	GAL	\$2.25	\$8,144.73	\$2.70	\$9,773.68	\$2.35	\$8,506.72
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	50.00	TON	\$130.00	\$6,500.00	\$179.25	\$8,962.50	\$202.47	\$10,123.50
40600625	LEVELING BINDER (MACHINE METHOD), N50	195.95	TON	\$76.50	\$14,990.18	\$95.60	\$18,732.82	\$111.61	\$21,869.98
40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	375.00	SQ YD	\$11.00	\$4,125.00	\$17.00	\$6,375.00	\$12.78	\$4,792.50
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	2,035.67	TON	\$74.50	\$151,657.42	\$84.20	\$171,403.41	\$94.82	\$193,022.23
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2 INCH	19,469.75	SQ YD	\$2.60	\$50,621.35	\$2.35	\$45,753.91	\$2.96	\$57,630.46
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	918.00	FOOT	\$45.25	\$41,539.50	\$71.30	\$65,453.40	\$68.09	\$62,506.62
44201705	CLASS D PATCHES, TYPE II, 5 INCH	10.80	SQ YD	\$70.35	\$759.78	\$85.25	\$920.70	\$79.45	\$858.06
44201709	CLASS D PATCHES, TYPE III, 5 INCH	82.80	SQ YD	\$70.35	\$5,824.98	\$85.25	\$7,058.70	\$79.45	\$6,578.46
44201711	CLASS D PATCHES, TYPE IV, 5 INCH	363.40	SQ YD	\$70.35	\$25,565.19	\$85.25	\$30,979.85	\$79.45	\$28,872.13
44201733	CLASS D PATCHES, TYPE III, 7 INCH	41.00	SQ YD	\$80.50	\$3,300.50	\$95.75	\$3,925.75	\$85.39	\$3,500.99
44201735	CLASS D PATCHES, TYPE IV, 7 INCH	161.00	SQ YD	\$80.50	\$12,960.50	\$95.75	\$15,415.75	\$85.39	\$13,747.79
44213200	SAW CUTS	400.00	FOOT	\$6.20	\$2,480.00	\$7.70	\$3,080.00	\$7.35	\$2,940.00
45100200	CRACK FILLING	5,200.00	POUND	\$2.00	\$10,400.00	\$3.75	\$19,500.00	\$3.52	\$18,304.00
48100100	AGGREGATE SHOULDERS, TYPE A	100.00	TON	\$50.70	\$5,070.00	\$48.00	\$4,800.00	\$55.65	\$5,565.00
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	2.00	EACH	\$1,550.00	\$3,100.00	\$1,570.00	\$3,140.00	\$1,040.71	\$2,081.42
60239100	INLETS, TYPE A, SPECIAL, TYPE 3 FRAME AND GRATE	2.00	EACH	\$1,394.70	\$2,789.40	\$1,452.00	\$2,904.00	\$1,040.71	\$2,081.42
60250300	CATCH BASINS TO BE ADJUSTED (SPECIAL) 17 INCH X 22 INCH	6.00	EACH	\$250.00	\$1,500.00	\$215.00	\$1,290.00	\$400.00	\$2,400.00
60255500	MANHOLES TO BE ADJUSTED	2.00	EACH	\$144.40	\$288.80	\$155.00	\$310.00	\$921.47	\$1,842.94
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	13.00	EACH	\$840.00	\$10,920.00	\$905.00	\$11,765.00	\$1,125.93	\$14,637.09
60266600	VALVE BOXES TO BE ADJUSTED	20.00	EACH	\$100.00	\$2,000.00	\$74.00	\$1,480.00	\$371.02	\$7,420.40
60300410	VALVE BOX FRAMES TO BE ADJUSTED WITH NEW FRAMES	1.00	EACH	\$800.00	\$800.00	\$470.00	\$470.00	\$544.87	\$544.87
88600100	DETECTOR LOOP, TYPE I	150.00	FOOT	\$14.80	\$2,220.00	\$17.85	\$2,677.50	\$13.65	\$2,047.50
X0322470	CLEANING PAVEMENT (SPECIAL)	4,132.22	SQ YD	\$0.65	\$2,685.94	\$1.25	\$5,165.28	\$1.21	\$4,999.99
X0324951	CAPE SEAL	41,353.33	SQ YD	\$3.80	\$157,142.65	\$5.50	\$227,443.32	\$5.47	\$226,202.72
Z0009000	ALTERATIONS, CANCELLATIONS, EXTENSIONS, DEDUCTIONS AND EXTRA WORK	1.00	EACH	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00
	TOTAL BIDS (AS CORRECTED)				\$601,764.38		\$735,311.16		\$778,287.35
	Percent Over Under ENGINEER'S ESTIMATE						22.19%		29.33%

*Matthew C. Newell*

Matthew C. Newell, P.E., City Engineer

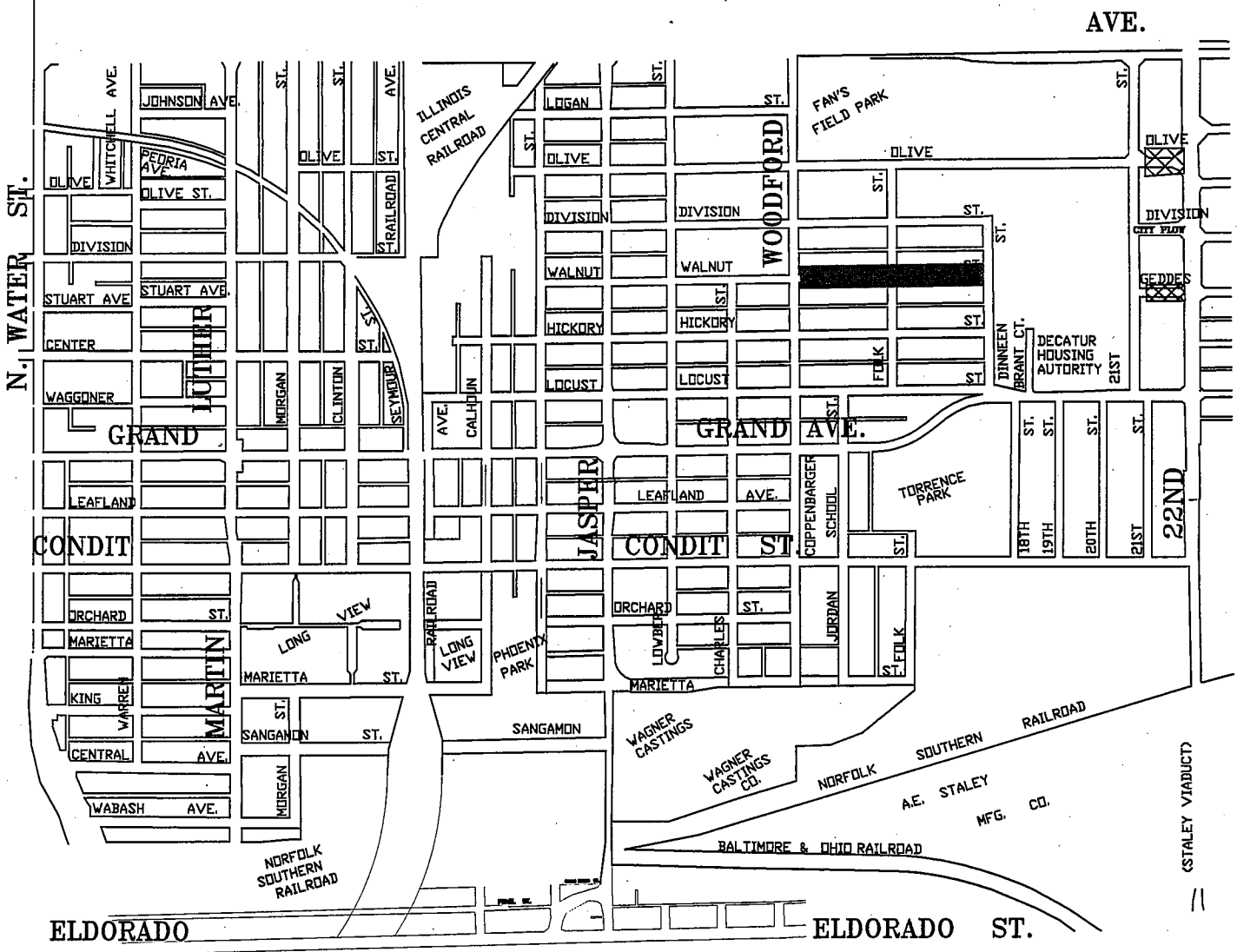
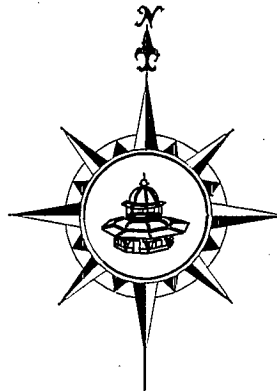
6-1-09

Date

CITY OF DECATUR, ILLINOIS | DEPARTMENT OF ENGINEERING AND INFRASTRUCTURE  
 CP 09-24 STREET RECONSTRUCTION  
 PROJECT LIST BY MILES

DATE 06-02-2009

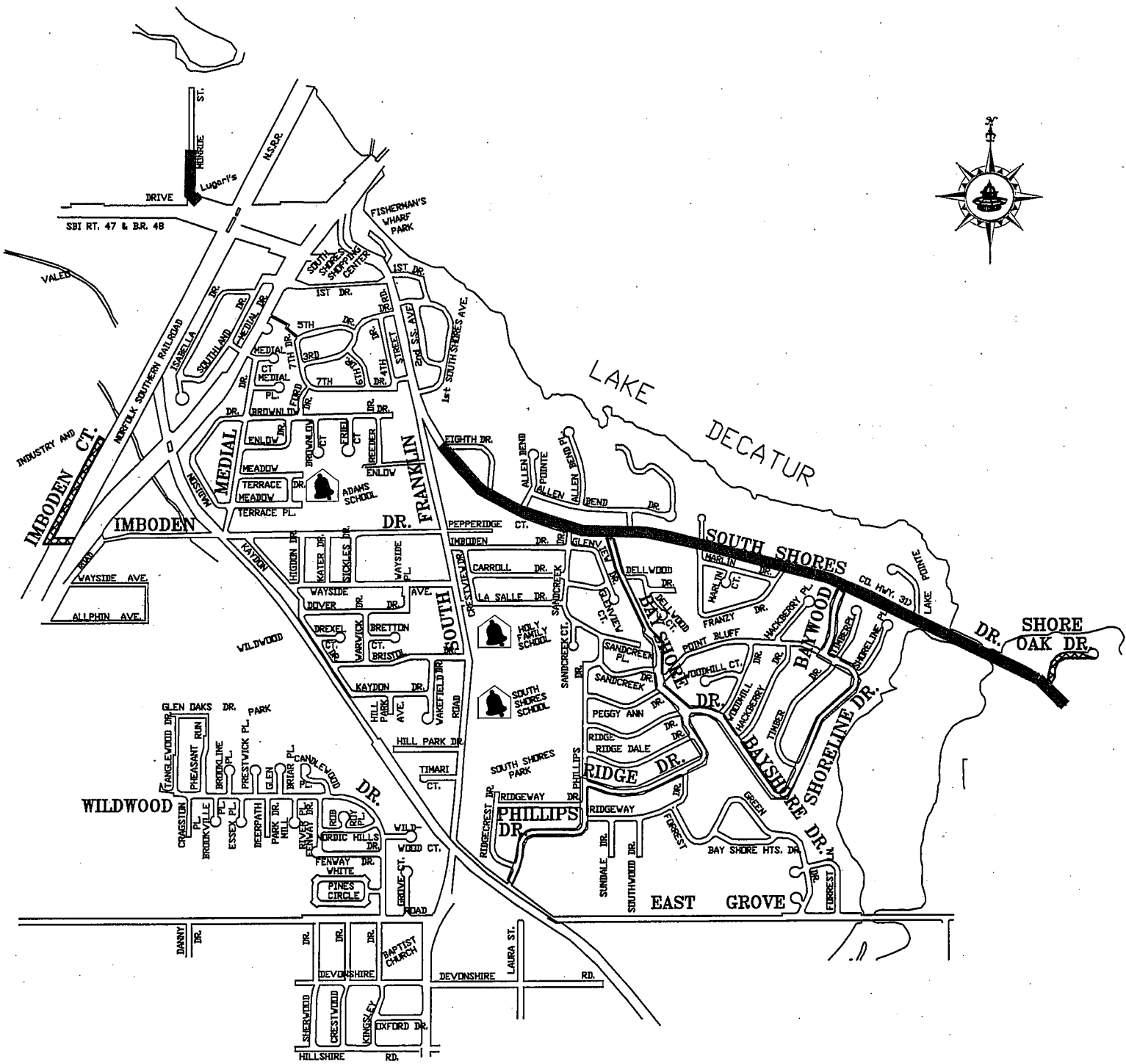
Street	From	To	Length (FOOT)	Treatment(s)
E WALNUT	ST N WOODFORD	ST N DINNEEN	1,280.0	OVERLAY
N EDWARD	ST W MAIN	ST W ELDORADO	1,545.0	MILL AND OVERLAY
W ASH	AV N MACARTHUR	AV N WATER (RTE 51)	2,535.0	MILL AND OVERLAY
ALLEY N OF MAIN	ST N CHURCH	ST N EDWARD	360.0	MILL AND OVERLAY
N MAPLE	AV MAPLE	CT W MCKINLEY	625.0	MILL AND OVERLAY
E HICKORY POINT	RD R.R. R.O.W.	N SAWYER	3,910.0	OIL AND CHIP
S MONROE	ST W SOUTH SIDE (FRONT)	DR END OF STREET	1,000.0	OIL AND CHIP
N WESTLAWN	DR W MOUND	RD W ASH	1,675.0	MICRO SURFACING/CAPE SEAL
E CANTRELL	ST S COUNTRY CLUB	RD S AIRPORT	6,380.0	MICRO SURFACING/CAPE SEAL
S SOUTH SHORES	DR E 8TH	DR CITY LIMITS	6,880.0	MICRO SURFACING/CAPE SEAL
<b>MILES</b>			<b>5.0</b>	



LOCATION MAP  
STREET RECONSTRUCTION







LOCATION MAP  
STREET RECONSTRUCTION



# LOCATION MAP

## STREET RECONSTRUCTION

