Project Application for 2008-2011 HIGHWAY SAFETY IMPROVEMENT PROGRAM DESIGN ID RELATED ID(s) (R/W) (CONST) Project Description 1. NAME OF ROAD/INTERSECTION HWY NO. 117 Local Street Intersections (Grant #4) TOWN OF Milwaukee Milwaukee NAME OF THE MPO THE PROJECT IS REPRESENTED BY SEWRPC $\mathbf{X}_{No}$ Ves Is the estimated cost of the project less than \$25,000? If YES, be sure to complete Box 6 in addition to the rest of this form. 2A. SEGMENT Project Length Current Average Daily Traffic Miles Roadway Width Crash Rate Shoulder Width 2B. INTERSECTION Crash Rate Entering Vehicle Volume Roadway Width Varies - see Attachment A Varies - see Attachment A

### Identification of Hazard

2C. Explain identified hazards such as: Visibility Restrictions, Curves, Hills, Intersection Problems, Bike/Ped Conflicts, Narrow Shoulders, Rutting, Etc.

Existing "Walk/Don't Walk" housings at signalized intersections do not provide the time remaining in the flashing "Don't Walk" phase prior to the start of the yellow change interval. Since pedestrians do not know how much time they have prior to the start of the yellow change interval, conflicts occur with vehicles because pedestrians fail to clear the crossing before the start of the conflicting green phase.

One hundred seventeen signalized local street intersections in the City of Milwaukee have been identified for improvements. These intersections had 1,172 crashes between 2006 and 2008 resulting in 609 injuries, including 39 pedestrians (See Attachment A).

#### **Proposed Improvement**

3. In some detail, describe the proposed project and how it will address the identified hazard.

The installation of 860 pedestrian countdown timers with 774 larger 12" combination "Walk/Don't Walk" housings will reduce the conflicts between pedestrians and vehicles to the extent practical and assist pedestrians in crossing safely at 117 local street intersections by providing the time remaining in the flashing "Don't Walk" phase prior to the start of the yellow change interval.

**Project Cost** 

Estimate project costs in today's dollars)	FY 2009	FY 2010	FY 2011	FY 2012	HSIP Funds Requested
Preliminary Engineering- Design*: Include state review (-00)			\$85,000		\$85,000
Construction Inspection (-71)			\$15,000		\$15,000
Traffic Signals (-90)			\$808,400		\$808,400
** TOTAL			\$908,400		\$908,400

\* Ineligible cost for Small Local HSIP Project (less than \$25,000).

<sup>\*\*</sup> The project sponsors will be responsible for any project costs in excess of the approved project cost.

REGION APPROVAL: Project Supervisor  Planning Supervisor  C.O. Concurrence  Approved Disapproved  Date	Project Checklist		
Will project require the use of any publicly-owned land from a public park, recreation area, or wildlife and waterfowl refuge?  Is your municipality adequately staffed and equipped to do the work?	Complete this box only for projects	less than \$25,000:	
Is your municipality adequately staffed and equipped to do the work?	5. Will project affect or use land from a property on the Na	ational Register of Historic Place	es? Yes No
Contact Information and Signature 6. PRIMARY CONTACT PERSON or AGENCY NAME  Jeffrey S. Polenske, P.E. ADDRESS At 1 North Broadway, Room 701  MUNICIPALITY City of Milwaukee 7. SIGNATURE OF LOCAL APPROVING AUTHORITY  WisDOT Information — Shaded areas to be completed by WisDOT staff only. A. Environmental Documentation Type C. PMSID D. Functional Class  REGION APPROVAL Project Supervisor  Planning Supervisor  Planning Supervisor  Planning Supervisor  Approved Disapproved Date  Date  Date  Date  Date		from a public park, recreation a	rea, Yes No
Contact Information and Signature 6. PRIMARY CONTACT PERSON or AGENCY  NAME  Jeffrey S. Polenske, P.E.  ADDRESS  ADDRESS  AS TELEPHONE  (414) 286-2400  MUNICIPALITY  STATE  City of Milwaukee  7. SIGNATURE OF LOCAL APPROVING AUTHORITY  Wis DOT Information — Shaded areas to be completed by Wis DOT staff only.  A. Environmental Documentation Type  B. Hazard Elimination Type  C. PMSID  D. Functional Class  E. PEF  REGION APPROVAL  Project Supervisor  Planning Supervisor  Date  C.O. Concurrence  Approved	Is your municipality adequately staffed and equipped to	do the work?	Yes No
6. PRIMARY CONTACT PERSON or AGENCY  NAME  Jeffrey S. Polenske, P.E.  ADDRESS  841 North Broadway, Room 701  MUNICIPALITY  City of Milwaukee  7. SIGNATURE OF LOCAL APPROVING AUTHORITY  WISDOT Information — Shaded areas to be completed by WisDOT staff only.  A. Environmental Documentation Type  B. Hazard Elimination Type  C. PMSID  D. Functional Class  E. PEF  REGION APPROVAL  Project Supervisor  Planning Supervisor  Date  C.O. Concurrence  Approved  Approved  Disapproved  Date	Does your municipality have prior commitments that wo	ould impair your performance of	this work? Yes No
NAME Jeffrey S. Polenske, P.E. ADDRESS ATELEPHONE (414) 286-2400  MUNICIPALITY City of Milwaukee 7. SIGNATURE OF LOCAL APPROVING AUTHORITY  WisDOT Information — Shaded areas to be completed by WisDOT staff only. A. Environmental Documentation Type B. Hazard Elimination Type C. PMSID D. Functional Class E. PEF  REGION APPROVAL Project Supervisor Planning Supervisor Date  C.O. Concurrence  Approved Disapproved Disapproved Disapproved Date	Contact Information and Signature		
Jeffrey S. Polenske, P.E.   City Engineer		751775	
ADDRESS  841 North Broadway, Room 701  (414) 286-2400  STATE City of Milwaukee WI 53202  7. SIGNATURE OF LOCAL APPROVING AUTHORITY  WisDOT Information — Shaded areas to be completed by WisDOT staff only.  A. Environmental Documentation Type C. PMSID  D. Functional Class  E. PEF  REGION APPROVAL Project Supervisor  Planning Supervisor  Planning Supervisor  Planning Authority  Date  Approved  Approved  Disapproved  Date		i e	
MUNICIPALITY	ADDRESS		er
MUNICIPALITY City of Milwaukee 7. SIGNATURE OF LOCAL APPROVING AUTHORITY DATE  WisDOT Information — Shaded areas to be completed by WisDOT staff only. A. Environmental Documentation Type B. Hazard Elimination Type C. PMSID D. Functional Class E. PEF  REGION APPROVAL Project Supervisor Planning Supervisor Date  C.O. Concurrence Approving Authority Date			
City of Milwaukee 7. SIGNATURE OF LOCAL APPROVING AUTHORITY  DATE  WisDOT Information — Shaded areas to be completed by WisDOT staff only. A. Environmental Documentation Type B. Hazard Elimination Type C. PMSID D. Functional Class E. PEE  REGION APPROVAL Project Supervisor Planning Supervisor Date  C.O. Concurrence Approving Authority Date	MINICIPALITY		
WisDOT Information — Shaded areas to be completed by WisDOT staff only.  A Environmental Documentation Type  B. Hazard Elimination Type  C. PMSID  D. Functional Class  E. PEF  REGION APPROVAL Project Supervisor  Date  C.O. Concurrence  Approved  Disapproved  Date			
WisDOT Information — Shaded areas to be completed by WisDOT staff only.  A. Environmental Documentation Type  B. Hazard Elimination Type  C. PMSID  D. Functional Class  E. PEF  Project Supervisor  Planning Supervisor  Date  C.O. Concurrence  Approving Authority  Date			
A Environmental Documentation Type  C. PMSID  D. Functional Class  REGION APPROVAL Project Supervisor  Planning Supervisor  C.O. Concurrence  Approved  Date  Date			
A Environmental Documentation Type  C. PMSID  D. Functional Class  REGION APPROVAL Project Supervisor  Planning Supervisor  C.O. Concurrence  Approved  Date  Date	WisDOT Information – Shaded areas to i	pe completed by WisDOT	staff only.
REGION APPROVAL Project Supervisor Planning Supervisor Date C.O. Concurrence Approving Authority Date	A. Environmental Documentation Type	∍B. Hazard Elimination Typ	<b>)6</b>
Planning Supervisor  Planning Supervisor  C.O. Concurrence  Approving Authority  Date	C. PMSID D. Functional Cla	388 	E PEF
C.O. Concurrence  Approved Disapproved  Approving Authority  Date	REGION APPROVAL Project Supervisor		Date
Approved Disapproved  Approving Authority  Date	Planning Supervisor		Date
Approving Authority  Date	C.O. Concurrence		
Approving Authority  Date			Approved Disapproved
	Approving Authority		The property of the second of
	REVISED 12/12/06		

# Attachment A: Countdown HSIP Grant #4 (Local Street Locations - Southside)

		2006-08						
No.	Street 1	Street 2	Injuries	Ped- estrian	Total	ADT	Crashes/ MEV	Est. Cost
1	Virginia	6th	5	0	19	19,700	0.96	¢ 2,000
2	Virginia	749 West	0	0	0	3,000	0.00	\$ 8,900
3	Cesar Chavez	Pierce/16th	7	0	21	20,400	1.02	\$ 2,200
4	Layton Blvd.	Scott	2	0	12	28,700	0.42	\$ 8,900
5	Scott	35th	1 1	0	10	20,700	0.42	\$ 8,900 \$ 8,900
6	Greenfield	21st	2	1	7	16,300	0.48	\$ 8,900
7	Greenfield	Layton Blvd.	12	1	28	40,300	0.43	\$ 8,900
8	Greenfield	31st	0	0	6	15,800	0.38	\$ 8,900
9	Greenfield	35th	8	1	27	33,200	0.81	\$ 8,900
10	Lapham	2nd	13	0	25	12,000	2.07	\$ 8,900
11	Lapham	11th	8	2	8	20,400	0.39	\$ 6,900
12	Cesar Chavez	Lapham	1 1	0	9	22,300	0.39	\$ 6,700
13	Lapham	Layton Blvd.	1	0	6	28,600	0.40	\$ 8,900
14	Mitchell	4th	16	0	12	5,900	2.02	\$ 6,700
15	Mitchell	5th	3	0	7	7,300	0.95	
16	Mitchell	7th	7	1	11	12,400	0.88	
17	Mitchell	9th	2	0	4	12,400	0.32	
18	Mitchell	11th	8	1	. 12	19,000	0.52	\$ 8,900
19	Mitchell	13th	3	0	9		0.63	\$ 4,400
20	Forest Home	13th	6	0	10	17,500		\$ 8,900
21	Cesar Chavez	Mitchell/16th	15	3	27	14,400	0.69	\$ 8,900
22	Mitchell	<del> </del>	4			27,900	0.96	\$ 8,900
23	Mitchell	Muskego 21st		1	8	18,900	0.42	\$ 4,400
24	Layton Blvd.	Mitchell	0	0	2	9,600	0.21	\$ 8,900
25	Mitchell	35th	10	1	18	32,400	0.55	\$ 8,900
26	Maple	11th		0	17	24,300	0.70	\$ 8,900
27	Burnham	16th	11	0	6	8,400	0.71	\$ 8,900
	Forest Home	16th		0	19	20,500	0.92	\$ 8,900
	Burnham		6	. 0	10	14,600	0.68	\$ 8,900
30	Burnham	Muskego		0	8	16,900	0.47	\$ 8,900
31	Burnham	Layton Blvd.	6	3	24	34,700	0.69	\$ 8,900
		35th	13	2	32	27,900	1.14	\$ 8,900
	Becher	Windlake	14	1	15	14,400	1.04	\$ 8,900
	Becher	16th	12	0	10	14,300	0.70	\$ 8,900
	Becher	Forest Home/20th	6	0	7	17,300	0.40	\$ 17,800
	Becher	Muskego	8	0	8	12,800	0.62	\$ 8,900
	Becher	Layton Blvd.	19	1	12	29,900	0.40	\$ 8,900
_	Becher	35th	2	0	6	22,300	0.27	\$ 8,900
	Howell	Lincoln	5	1	9	12,600	0.71	\$ 8,900
	Lincoln	4th	9	0	11	9,300	1.18	\$ 6,700
	Lincoln	5th	4	0	3	10,000	0.30	\$ 6,700
	Lincoln	9th Pl.	0	0	4	14,300	0.28	\$ 6,700
	Lincoln	Windlake	11	1	17	23,800	0.71	\$ 8,900
	Lincoln	16th	13	3	35	27,100	1.29	\$ 8,900
	Lincoln	20th	19	0	22	23,000	0.95	\$ 8,900
	Forest Home	Lincoln	6	0	14	33,800	0.41	\$ 4,400
	Layton Blvd.	Lincoln/27th	23	2	45	43,000	1.04	\$ 8,900
	Lincoln	31st	10	0	9	19,800	0.45	\$ 8,900
	Lincoln	35th	7	11	18	38,800	0.46	\$ 8,900
	Lincoln	43rd	34	0	62	44,900	1.37	\$ 8,900
	Windlake	16th	3	2	3	14,700	0.20	\$ 8,900
51	KK River Pkwy	43rd	4	0	8	27,100	0.29	\$ 4,400

CITY OF MILWAUKEE DEPT. OF PUBLIC WORKS

رخر

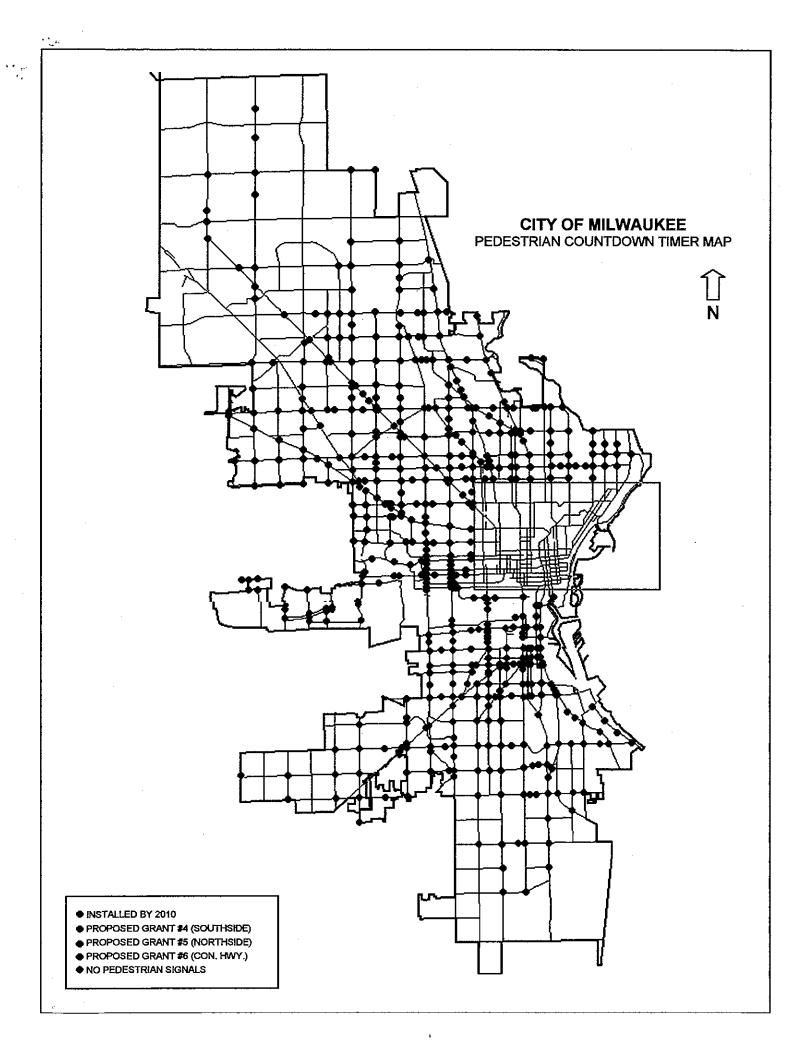
## Attachment A: Countdown HSIP Grant #4 (Local Street Locations - Southside)

Street 1			2006-08							
Say   Cleveland   20th   5	No.	Street 1	Street 2	Injuries		Tota!	ADT		Est. Cost	
53   Cleveland   20th   5	52	Cleveland	16th	4	0	10	13,700	0.73	\$ 8.900	
Section   Scient   Section   Secti	53		20th	5	0					
55   Cleveland   60th   3   0   9   22,400   0.40   \$ 8,890		Cleveland	43rd	3	0	13				
56   Russell   Superior   0			60th	3	0					
57   Nock   Superior   0			Superior	0	0	1				
58 Rusk         Superior         0         0         0         5,300         0.00         \$,6,700           59 Oklahoma         Superior         0         0         1         7,200         0,14         \$,6,700           60 Clement         Oklahoma         18         2         16         25,900         0,61         \$,900           61 Oklahoma         Pine         3         0         8         23,100         0,34         \$,900           62 Howell         Oklahoma         9         0         19         30,500         0,62         \$,900           63 Oklahoma         6th         8         1         19         29,200         0.65         \$,900           64 Oklahoma         9th Pl.         10         0         18         21,200         0.84         \$,890           65 Oklahoma         13th         5         0         18         31,600         0.57         \$,890           66 Oklahoma         13th         5         0         18         31,600         0.57         \$,890           67 Oklahoma         30th         1         0         6         23,500         0.25         \$,700           69 Oklahoma         35th				0	0	1	5,800	0.17		
Clement			Superior	0	0	0	5,300	0.00		
SO   Clement   Oklahoma   18   2   16   25,900   0.61   \$ 8,900   61   Oklahoma   Pine   3   0   8   23,100   0.62   \$ 8,900   62   Howell   Oklahoma   9   0   119   30,500   0.62   \$ 8,900   63   Oklahoma   6th   8   1   19   20,200   0.65   \$ 8,900   64   Oklahoma   9th Pl.   10   0   18   21,200   0.65   \$ 8,900   65   Oklahoma   13th   5   0   18   31,600   0.57   \$ 8,900   66   Oklahoma   13th   5   0   18   31,600   0.57   \$ 8,900   66   Oklahoma   13th   9   0   18   23,800   0.63   \$ 8,900   67   Oklahoma   20th   15   1   30   31,200   0.96   \$ 8,900   68   Oklahoma   30th   1   0   0   6   23,500   0.25   \$ 8,700   0.68   Oklahoma   30th   1   0   0   6   23,500   0.25   \$ 8,700   0.68   Oklahoma   35th   23   2   31   35,000   0.38   \$ 8,900   70   Oklahoma   51st   1   1   8   23,500   0.34   \$ 8,900   71   Lakefield   35th   5   1   6   14,400   0.41   \$ 4,400   72   Howell   Morgan   2   0   7   10,900   0.64   \$ 8,900   73   Holt   2nd   3   0   10   18,800   0.53   \$ 8,700   73   Holt   2nd   3   0   10   18,800   0.53   \$ 8,900   75   Morgan   13th   15   1   29   26,900   1.07   \$ 8,900   75   Morgan   13th   15   1   29   26,900   1.07   \$ 8,900   76   Morgan   20th   10   0   28   31,100   0.90   \$ 8,900   78   Lakefield   Morgan   35th   10   0   28   31,100   0.90   \$ 8,900   78   Lakefield   Morgan   35th   10   0   28   31,100   0.90   \$ 8,900   31   Morgan   35th   30   10   11,100   10,100				0	0	1	7,200	0.14		
		·		18	2	16	25,900	0.61		
Section   Sect					0	8	23,100	0.34		
64   Oklahoma					0	19	30,500	0.62	\$ 8,900	
66 Oklahoma	ļ	<del></del>			1	19		0.65	\$ 8,900	
66 Oklahoma         16th         9         0         18         28,600         0.63         \$ 3,900           67 Oklahoma         20th         15         1         30         31,200         0.96         \$ 8,900           68 Oklahoma         30th         1         0         6         23,500         0.25         \$ 6,700           69 Oklahoma         35th         23         2         31         35,000         0.88         \$ 8,900           70 Oklahoma         51st         1         1         8         23,500         0.34         \$ 8,900           71 Lakefield         35th         5         1         6         14,400         0.41         \$ 4,400           72 Howell         Morgan         2         0         7         10,900         0.64         \$ 8,900           73 Holt         2nd         3         0         10         18,800         0.53         \$ 6,700           74 Holt         Morgan         13th         15         1         29         26,900         1.07         \$ 8,900           75 Morgan         13th         15         1         29         26,900         1.07         \$ 8,900           76 Morgan									\$ 8,900	
67 Oklahoma 20th 15 1 30 31,200 0.96 \$ 5,900 68 Oklahoma 30th 1 0 6 23,500 0.25 \$ 6,700 70 Oklahoma 35th 23 2 31 35,000 0.88 \$ 8,900 70 Oklahoma 51st 1 1 8 23,500 0.34 \$ 5,900 71 Lakefield 35th 5 1 6 14,400 0.41 \$ 4,400 71 Lakefield 35th 5 1 6 14,400 0.41 \$ 4,400 71 Lakefield 35th 5 1 6 14,400 0.41 \$ 4,400 71 Lakefield 35th 5 1 6 14,400 0.41 \$ 4,400 71 Lakefield 35th 5 1 6 14,400 0.41 \$ 4,400 71 Lakefield 35th 5 1 6 14,400 0.41 \$ 4,400 71 Lakefield 35th 5 1 6 14,400 0.41 \$ 4,400 71 Lakefield 35th 5 1 20 0 7 7 10,900 0.64 \$ 8,900 71 Lakefield Morgan 1 3th 15 0 23 28,900 0.79 \$ 8,900 71 Lakefield 1 1 20 26,900 1.07 \$ 8,900 71 Lakefield Morgan 1 1 0 0 0 28 31,100 0.90 \$ 8,900 71 Lakefield Morgan 2 1 0 0 0 0 28 31,100 0.90 \$ 8,900 71 Lakefield Morgan 1 1 0 0 10 12,900 0.77 \$ 6,700 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		· · · · · · · · · · · · · · · · · · ·			0		31,600	0.57	\$ 8,900	
68         Oklahoma         30th         1         0         6         23,500         0.25         \$ 6,700           69         Oklahoma         35th         23         2         31         35,000         0.88         \$,900           70         Oklahoma         51st         1         1         8         23,500         0.34         \$,800           71         Lakefield         35th         5         1         6         14,400         0.41         \$,400           72         Howell         Morgan         2         0         7         10,900         0.64         \$,8900           73         Holt         2nd         3         0         10         18,800         0.53         \$,6700           74         Holt         Morgan         1         15         0         23         28,900         0.79         \$,8900           75         Morgan         13th         15         1         29         26,900         1.07         \$,8900           76         Morgan         16th         7         0         8         20,600         39         \$,900           77         Morgan         16th         7         0					0	18	28,600	0.63	\$ 8,900	
69         Oklahoma         35th         23         2         31         35,000         0.88         \$ 8,900           70         Oklahoma         51st         1         1         8         23,500         0.34         \$ 8,900           71         Lakefield         35th         5         1         6         14,400         0.41         \$ 4,400           72         Howell         Morgan         2         0         7         10,900         0.64         \$ 8,900           73         Holt         2nd         3         0         10         18,800         0.53         \$ 6,700           74         Holt         Morgan/6th         15         0         23         28,900         0.79         \$ 8,900           75         Morgan         13th         15         1         29         26,900         1.07         \$ 8,900           76         Morgan         16th         7         0         8         20,600         0.39         \$ 8,900           77         Morgan         20th         10         0         28         31,100         0.90         \$ 8,900           78         Lakefield         Morgan         1         <					1	30	31,200	0.96	\$ 8,900	
70   Oklahoma						6	23,500	0.25	\$ 6,700	
71         Lakefield         35th         5         1         6         14,400         0.41         \$ 4,400           72         Howell         Morgan         2         0         7         10,900         0.64         \$ 8,900           73         Holt         2nd         3         0         10         18,800         0.53         \$ 6,700           74         Holt         Morgan/6th         15         0         23         28,900         0.79         \$ 8,900           75         Morgan         13th         15         1         29         26,900         1.07         \$ 8,900           76         Morgan         16th         7         0         8         20,600         0.39         \$ 8,900           76         Morgan         16th         7         0         8         20,600         0.039         \$ 8,900           77         Morgan         20th         10         0         28         31,100         0.90         \$ 8,900           78         Lakefield         Morgan         1         0         10         12,900         0.77         \$ 6,700           79         Morgan         35th         10				23	2	31	35,000	0.88	\$ 8,900	
Total   Howell   Morgan   2		·			1 ,	8	23,500	0.34	\$ 8,900	
Total   Holt   Total			35th		1	6	14,400	0.41	\$ 4,400	
74         Holt         Morgan/6th         15         0         23         28,900         0.79         \$ 8,900           75         Morgan         13th         15         1         29         26,900         1.07         \$ 8,900           76         Morgan         16th         7         0         8         20,600         0.39         \$ 8,900           77         Morgan         20th         10         0         28         31,100         0.90         \$ 8,900           78         Lakefield         Morgan         1         0         10         12,900         0.77         \$ 6,700           79         Morgan         35th         10         0         15         15,900         0.94         \$ 4,400           80         Morgan         43rd         7         0         24         19,300         1.24         \$ 6,900           81         Morgan         60th         7         0         8         21,600         0.37         \$ 8,900           82         Morgan         84th         5         0         6         11,800         0.51         \$ 8,900           83         Morgan         84th         5         0<			Morgan	2	Ō	7	10,900	0.64	\$ 8,900	
75         Morgan         13th         15         1         29         26,900         1.07         \$ 8,900           76         Morgan         16th         7         0         8         20,600         0.39         \$ 8,900           77         Morgan         20th         10         0         28         31,100         0.90         \$ 8,900           78         Lakefield         Morgan         1         0         10         12,900         0.77         6,700           79         Morgan         35th         10         0         15         15,900         0.94         \$ 4,400           80         Morgan         43rd         7         0         24         19,300         1.24         \$ 8,900           81         Morgan         60th         7         0         8         21,600         0.37         \$ 8,900           82         Morgan         68th         5         0         6         11,800         0.51         \$ 8,900           83         Morgan         84th         5         0         4         12,800         0.31         \$ 8,900           84         Beloit         Morgan/100th         13         0	1		2nd	3	0	10	18,800	0.53		
To   Morgan		Holt	Morgan/6th	15	0	23	28,900	0.79		
76         Morgan         16th         7         0         8         20,600         0.39         \$ 8,900           77         Morgan         20th         10         0         28         31,100         0.90         \$ 8,900           78         Lakefield         Morgan         1         0         10         12,900         0.77         \$ 6,700           79         Morgan         35th         10         0         15         15,900         0.94         \$ 4,400           80         Morgan         43rd         7         0         24         19,300         1.24         \$ 8,900           81         Morgan         60th         7         0         8         21,600         0.37         \$ 8,900           82         Morgan         68th         5         0         6         11,800         0.51         \$ 8,900           82         Morgan         84th         5         0         4         12,800         0.31         \$ 8,900           84         Beloit         Morgan/100th         13         0         30         20,100         1.49         \$ 8,900           85         Clement         Howard         2         <		Morgan	13th	15	1	29	26,900	1.07		
78         Lakefield         Morgan         1         0         10         12,900         0.77         \$ 6,700           79         Morgan         35th         10         0         15         15,900         0.94         \$ 4,400           80         Morgan         43rd         7         0         24         19,300         1.24         \$ 8,900           81         Morgan         60th         7         0         8         21,600         0.37         \$ 8,900           82         Morgan         68th         5         0         6         11,800         0.51         \$ 8,900           82         Morgan         84th         5         0         4         12,800         0.31         \$ 8,900           84         Beloit         Morgan/100th         13         0         30         20,100         1.49         \$ 8,900           85         Clement         Howard         2         0         12         18,800         0.64         \$ 4,400           86         Howard         Pine         3         0         11         17,700         0.62         \$ 8,900           87         Howard         6th         12         <		Morgan		7	0	8	20,600	0.39		
79         Morgan         35th         10         0         15         15,900         0.94         \$ 4,400           80         Morgan         43rd         7         0         24         19,300         1.24         \$ 8,900           81         Morgan         60th         7         0         8         21,600         0.37         \$ 8,900           82         Morgan         68th         5         0         6         11,800         0.51         \$ 8,900           83         Morgan         84th         5         0         4         12,800         0.31         \$ 8,900           84         Beloit         Morgan/100th         13         0         30         20,100         1.49         \$ 8,900           85         Clement         Howard         2         0         12         18,800         0.64         \$ 4,400           86         Howard         Pine         3         0         11         17,700         0.62         \$ 8,900           87         Howard         Whitnall         15         0         19         26,100         0.72         \$ 8,900           88         Howard         13th         2         <		Morgan	20th	10	0	28	31,100	0.90	\$ 8,900	
80         Morgan         43rd         7         0         24         19,300         1.24         \$,900           81         Morgan         60th         7         0         8         21,600         0.37         \$,900           82         Morgan         68th         5         0         6         11,800         0.51         \$,900           83         Morgan         84th         5         0         4         12,800         0.31         \$,900           84         Beloit         Morgan/100th         13         0         30         20,100         1.49         \$,900           85         Clement         Howard         2         0         12         18,800         0.64         \$,400           86         Howard         Pine         3         0         11         17,700         0.62         \$,8900           87         Howard         Pine         3         0         11         17,700         0.62         \$,900           88         Howard         Whitnall         15         0         19         26,100         0.72         \$,8900           89         Howard         6th         12         0		Lakefield	Morgan	1	0	10	12,900	0.77	\$ 6,700	
81         Morgan         60th         7         0         8         21,600         0.37         \$8,900           82         Morgan         68th         5         0         6         11,800         0.51         \$8,900           83         Morgan         84th         5         0         4         12,800         0.31         \$8,900           84         Beloit         Morgan/100th         13         0         30         20,100         1.49         \$8,900           85         Clement         Howard         2         0         12         18,800         0.64         \$4,400           86         Howard         Pine         3         0         11         17,700         0.62         \$8,900           87         Howard         Whitnall         15         0         19         26,100         0.72         \$8,900           88         Howard         6th         12         0         21         28,900         0.72         \$8,900           89         Howard         6th         12         0         21         28,900         0.72         \$8,900           90         Howard         60th         8         0	79	Morgan	35th	10	0	15	15,900	0.94	\$ 4,400	
81         Morgan         60th         7         0         8         21,600         0.37         \$ 8,900           82         Morgan         68th         5         0         6         11,800         0.51         \$ 8,900           83         Morgan         84th         5         0         4         12,800         0.31         \$ 8,900           84         Beloit         Morgan/100th         13         0         30         20,100         1.49         \$ 8,900           85         Clement         Howard         2         0         12         18,800         0.64         \$ 4,400           86         Howard         Pine         3         0         11         17,700         0.62         \$ 8,900           87         Howard         Whitnall         15         0         19         26,100         0.72         \$ 8,900           88         Howard         6th         12         0         21         28,900         0.72         \$ 8,900           89         Howard         13th         2         0         13         28,000         0.46         \$ 8,900           91         Howard         20th         9 <t< td=""><td>80</td><td></td><td>43rd</td><td>7</td><td>0</td><td>24</td><td>19,300</td><td>1.24</td><td>\$ 8,900</td></t<>	80		43rd	7	0	24	19,300	1.24	\$ 8,900	
83         Morgan         84th         5         0         4         12,800         0.31         \$ 8,900           84         Beloit         Morgan/100th         13         0         30         20,100         1.49         \$ 8,900           85         Clement         Howard         2         0         12         18,800         0.64         \$ 4,400           86         Howard         Pine         3         0         11         17,700         0.62         \$ 8,900           87         Howard         Whitnall         15         0         19         26,100         0.72         \$ 8,900           88         Howard         6th         12         0         21         28,900         0.72         \$ 8,900           89         Howard         13th         2         0         13         28,000         0.46         \$ 8,900           90         Howard         20th         9         1         13         26,300         0.49         \$ 8,900           91         Howard         60th         8         0         16         22,800         0.70         \$ 8,900           92         Pine         Whitnall         1	1	Morgan	60th	7	0	8	21,600	0.37	\$ 8,900	
84         Beloit         Morgan/100th         13         0         30         20,100         1.49         \$ 8,900           85         Clement         Howard         2         0         12         18,800         0.64         \$ 4,400           86         Howard         Pine         3         0         11         17,700         0.62         \$ 8,900           87         Howard         Whitnall         15         0         19         26,100         0.72         \$ 8,900           88         Howard         6th         12         0         21         28,900         0.72         \$ 8,900           89         Howard         13th         2         0         13         28,000         0.46         \$ 8,900           90         Howard         20th         9         1         13         26,300         0.49         \$ 8,900           91         Howard         20th         9         1         13         26,300         0.49         \$ 8,900           91         Howard         60th         8         0         16         22,800         0.70         \$ 8,900           92         Pine         Whitnall         1			68th	5	0	6	11,800	0.51	\$ 8,900	
85         Clement         Howard         2         0         12         18,800         0.64         \$ 4,400           86         Howard         Pine         3         0         11         17,700         0.62         \$ 8,900           87         Howard         Whitnall         15         0         19         26,100         0.72         \$ 8,900           88         Howard         6th         12         0         21         28,900         0.72         \$ 8,900           89         Howard         13th         2         0         13         28,000         0.46         \$ 8,900           90         Howard         20th         9         1         13         26,300         0.49         \$ 8,900           91         Howard         20th         9         1         13         26,300         0.49         \$ 8,900           90         Howard         60th         8         0         16         22,800         0.70         \$ 8,900           91         Howard         60th         8         0         16         22,800         0.70         \$ 8,900           92         Pine         Whitnall         1         0<			84th		0	4	12,800	0.31	\$ 8,900	
85         Clement         Howard         2         0         12         18,800         0.64         \$ 4,400           86         Howard         Pine         3         0         11         17,700         0.62         \$ 8,900           87         Howard         Whitnall         15         0         19         26,100         0.72         \$ 8,900           88         Howard         6th         12         0         21         28,900         0.72         \$ 8,900           89         Howard         13th         2         0         13         28,000         0.46         \$ 8,900           90         Howard         20th         9         1         13         26,300         0.49         \$ 8,900           91         Howard         20th         9         1         13         26,300         0.49         \$ 8,900           91         Howard         60th         8         0         16         22,800         0.70         \$ 8,900           91         Howard         60th         8         0         16         22,800         0.70         \$ 8,900           92         Pine         Whitnall         1         0<	84	Beloit	Morgan/100th	13	0	30	20,100	1.49	\$ 8,900	
87         Howard         Whitnall         15         0         19         26,100         0.72         \$ 8,900           88         Howard         6th         12         0         21         28,900         0.72         \$ 8,900           89         Howard         13th         2         0         13         28,000         0.46         \$ 8,900           90         Howard         20th         9         1         13         26,300         0.49         \$ 8,900           91         Howard         60th         8         0         16         22,800         0.70         \$ 8,900           91         Howard         60th         8         0         16         22,800         0.70         \$ 8,900           91         Howard         60th         8         0         16         22,800         0.70         \$ 8,900           92         Pine         Whitnall         1         0         4         12,700         0.31         \$ 8,900           92         Pine         Whitnall         1         0         4         12,700         0.31         \$ 8,900           93         Cold Spring         60th         5	85	Clement		2	0	12	18,800	0.64		
88         Howard         6th         12         0         21         28,900         0.72         \$8,900           89         Howard         13th         2         0         13         28,000         0.46         \$8,900           90         Howard         20th         9         1         13         26,300         0.49         \$8,900           91         Howard         60th         8         0         16         22,800         0.70         \$8,900           91         Howard         60th         8         0         16         22,800         0.70         \$8,900           92         Pine         Whitnall         1         0         4         12,700         0.31         \$8,900           92         Pine         Whitnall         1         0         4         12,700         0.31         \$8,900           93         Cold Spring         60th         12         0         25         23,700         1.05         \$8,900           94         Layton         6th         5         2         15         41,900         0.36         \$8,900           95         Layton         8th (800 West)         0         0 <td>86</td> <td>Howard</td> <td>Pine</td> <td></td> <td>0</td> <td>11</td> <td>17,700</td> <td>0.62</td> <td>\$ 8,900</td>	86	Howard	Pine		0	11	17,700	0.62	\$ 8,900	
89 Howard         13th         2         0         13         28,000         0.46         \$ 8,900           90 Howard         20th         9         1         13         26,300         0.49         \$ 8,900           91 Howard         60th         8         0         16         22,800         0.70         \$ 8,900           92 Pine         Whitnall         1         0         4         12,700         0.31         \$ 8,900           93 Cold Spring         60th         12         0         25         23,700         1.05         \$ 8,900           94 Layton         6th         5         2         15         41,900         0.36         \$ 8,900           95 Layton         8th (800 West)         0         0         2         31,500         0.06         \$ 4,400           96 Layton         13th         20         0         37         47,600         0.77         \$ 8,900           97 Layton         20th         18         6         25         42,000         0.59         \$ 4,400           98 Edgerton         13th         3         0         9         18,800         0.48         \$ 2,200           99 Grange         6th	87	Howard	Whitnall		0	19	26,100	0.72	\$ 8,900	
90 Howard         20th         9         1         13         26,300         0.49         \$ 8,900           91 Howard         60th         8         0         16         22,800         0.70         \$ 8,900           92 Pine         Whitnall         1         0         4         12,700         0.31         \$ 8,900           93 Cold Spring         60th         12         0         25         23,700         1.05         \$ 8,900           94 Layton         6th         5         2         15         41,900         0.36         \$ 8,900           95 Layton         8th (800 West)         0         0         2         31,500         0.06         \$ 4,400           96 Layton         13th         20         0         37         47,600         0.77         \$ 8,900           97 Layton         20th         18         6         25         42,000         0.59         \$ 4,400           98 Edgerton         13th         3         0         9         18,800         0.48         \$ 2,200           99 Grange         6th         0         0         0         10,900         0.00         \$ 4,400           100 Grange         13th	88	Howard		12	0	21		0.72	\$ 8,900	
91         Howard         60th         8         0         16         22,800         0.70         \$ 8,900           92         Pine         Whitnall         1         0         4         12,700         0.31         \$ 8,900           93         Cold Spring         60th         12         0         25         23,700         1.05         \$ 8,900           94         Layton         6th         5         2         15         41,900         0.36         \$ 8,900           95         Layton         8th (800 West)         0         0         2         31,500         0.06         \$ 4,400           96         Layton         13th         20         0         37         47,600         0.77         \$ 8,900           97         Layton         20th         18         6         25         42,000         0.59         \$ 4,400           98         Edgerton         13th         3         0         9         18,800         0.48         \$ 2,200           99         Grange         6th         0         0         0         10,900         0.00         \$ 4,400           100         Grange         13th         8	89	Howard	13th		0	13	28,000	0.46	\$ 8,900	
92 Pine         Whitnall         1         0         4         12,700         0.31         \$ 8,900           93 Cold Spring         60th         12         0         25         23,700         1.05         \$ 8,900           94 Layton         6th         5         2         15         41,900         0.36         \$ 8,900           95 Layton         8th (800 West)         0         0         2         31,500         0.06         \$ 4,400           96 Layton         13th         20         0         37         47,600         0.77         \$ 8,900           97 Layton         20th         18         6         25         42,000         0.59         \$ 4,400           98 Edgerton         13th         3         0         9         18,800         0.48         \$ 2,200           99 Grange         6th         0         0         0         10,900         0.00         \$ 4,400           100 Grange         13th         8         0         15         22,000         0.68         \$ 8,900           101 Hawley         Main         3         0         9         24,200         0.37         \$ 8,900	90	Howard	20th	9	1	13	26,300	0.49	\$ 8,900	
93         Cold Spring         60th         12         0         25         23,700         1.05         \$ 8,900           94         Layton         6th         5         2         15         41,900         0.36         \$ 8,900           95         Layton         8th (800 West)         0         0         2         31,500         0.06         \$ 4,400           96         Layton         13th         20         0         37         47,600         0.77         \$ 8,900           97         Layton         20th         18         6         25         42,000         0.59         \$ 4,400           98         Edgerton         13th         3         0         9         18,800         0.48         \$ 2,200           99         Grange         6th         0         0         0         10,900         0.00         \$ 4,400           100         Grange         13th         8         0         15         22,000         0.68         \$ 8,900           101         Hawley         Main         3         0         9         24,200         0.37         \$ 8,900	91	Howard	60th	8	0	16	22,800	0.70	\$ 8,900	
94         Layton         6th         5         2         15         41,900         0.36         \$ 8,900           95         Layton         8th (800 West)         0         0         2         31,500         0.06         \$ 4,400           96         Layton         13th         20         0         37         47,600         0.77         \$ 8,900           97         Layton         20th         18         6         25         42,000         0.59         \$ 4,400           98         Edgerton         13th         3         0         9         18,800         0.48         \$ 2,200           99         Grange         6th         0         0         0         10,900         0.00         \$ 4,400           100         Grange         13th         8         0         15         22,000         0.68         \$ 8,900           101         Hawley         Main         3         0         9         24,200         0.37         \$ 8,900	92	Pine	Whitnall	1	0	4	12,700	0.31	\$ 8,900	
95         Layton         8th (800 West)         0         0         2         31,500         0.06         \$ 4,400           96         Layton         13th         20         0         37         47,600         0.77         \$ 8,900           97         Layton         20th         18         6         25         42,000         0.59         \$ 4,400           98         Edgerton         13th         3         0         9         18,800         0.48         \$ 2,200           99         Grange         6th         0         0         0         10,900         0.00         \$ 4,400           100         Grange         13th         8         0         15         22,000         0.68         \$ 8,900           101         Hawley         Main         3         0         9         24,200         0.37         \$ 8,900	93	Cold Spring	60th	12	0	25	23,700	1.05	\$ 8,900	
96         Layton         13th         20         0         37         47,600         0.77         \$ 8,900           97         Layton         20th         18         6         25         42,000         0.59         \$ 4,400           98         Edgerton         13th         3         0         9         18,800         0.48         \$ 2,200           99         Grange         6th         0         0         0         10,900         0.00         \$ 4,400           100         Grange         13th         8         0         15         22,000         0.68         \$ 8,900           101         Hawley         Main         3         0         9         24,200         0.37         \$ 8,900	94	Layton	6th	5	2	15	41,900	0.36	\$ 8,900	
96         Layton         13th         20         0         37         47,600         0.77         \$ 8,900           97         Layton         20th         18         6         25         42,000         0.59         \$ 4,400           98         Edgerton         13th         3         0         9         18,800         0.48         \$ 2,200           99         Grange         6th         0         0         0         10,900         0.00         \$ 4,400           100         Grange         13th         8         0         15         22,000         0.68         \$ 8,900           101         Hawley         Main         3         0         9         24,200         0.37         \$ 8,900	95	Layton	8th (800 West)		0	2	31,500	0.06	····	
97         Layton         20th         18         6         25         42,000         0.59         \$ 4,400           98         Edgerton         13th         3         0         9         18,800         0.48         \$ 2,200           99         Grange         6th         0         0         0         10,900         0.00         \$ 4,400           100         Grange         13th         8         0         15         22,000         0.68         \$ 8,900           101         Hawley         Main         3         0         9         24,200         0.37         \$ 8,900	96	Layton		20	0					
98         Edgerton         13th         3         0         9         18,800         0.48         \$ 2,200           99         Grange         6th         0         0         0         10,900         0.00         \$ 4,400           100         Grange         13th         8         0         15         22,000         0.68         \$ 8,900           101         Hawley         Main         3         0         9         24,200         0.37         \$ 8,900	97	Layton	20th	18	6	25		0.59		
99 Grange         6th         0         0         0         10,900         0.00         \$ 4,400           100 Grange         13th         8         0         15         22,000         0.68         \$ 8,900           101 Hawley         Main         3         0         9         24,200         0.37         \$ 8,900	98	Edgerton	13th	3	0					
100 Grange     13th     8     0     15     22,000     0.68     \$ 8,900       101 Hawley     Main     3     0     9     24,200     0.37     \$ 8,900	99	Grange	6th	0	0					
101 Hawley Main 3 0 9 24,200 0.37 \$ 8,900			13th							
	$\overline{}$									
, , , , , , , , , , , , , , , , , , , ,			70th	5		10	20,400	0.49	\$ 8,900	

CITY OF MILWAUKEE DEPT. OF PUBLIC WORKS

# Attachment A: Countdown HSIP Grant #4 (Local Street Locations - Southside)

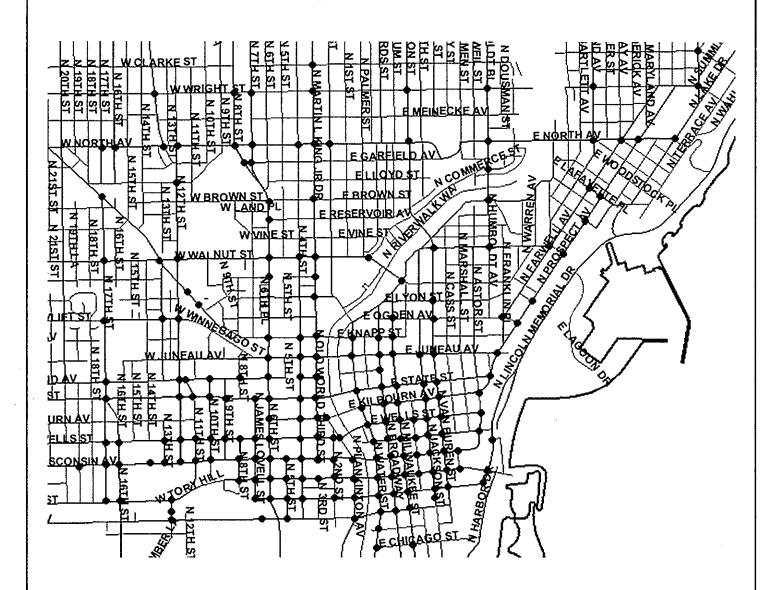
	Street 1	Street 2	2006-08					<del></del>
No.			Injuries	Ped- estrian	Total	ADT	Crashes/ MEV	Est. Cost
	Main	76th	2	0	11	13,400	0.82	\$ 6,700
	Kearney	76th	3	0	3	13,700	0.22	\$ 6,700
	O'Connor	76th	2	0	2	14,400	0.14	\$ 6,700
	Canal	6th	9	0	15	19,100	0.78	\$ 8,900
	Canal	Emmber	2	1	6	21,300	0.28	\$ 4,400
	Canal	16th/Potawatomi	1	0	6	15,200	0.39	\$ 3,300
	Canal	20th/Potawatomi	. 0	0	0	15,200	0.00	\$ 6,700
	Potawatomi Ramp	16th	0	0	0	21,400	0.00	\$ 1,100
	Emmber Ramp	16th	1	0	2	14,600	0.14	\$ 2,200
	Hawley	Wisconsin	8	0	11	28,100	0.39	\$ 8,900
	Wisconsin	92nd	2	0	5	17,000	0.29	\$ 1,100
	Hawley	Wells	10	2	15	16,600	0.90	\$ 8,900
115	State	40th/41st	1	0	2	10,200	0.20	\$ 11,100
116	State	46th	0	0	1	12,300	0.08	\$ 2,200
117	State	54th	1	0	2	7,000	0.28	\$ 2,200
		TOTALS	646	39	1,243	1,858,700	0.67	\$ 908,400



### **CITY OF MILWAUKEE**

PEDESTRIAN COUNTDOWN TIMER MAP (DOWNTOWN DETAIL)





- INSTALLED BY 2010
- PROPOSED GRANT #4 (SOUTHSIDE)
- PROPOSED GRANT #5 (NORTHSIDE)
- PROPOSED GRANT #6 (CON. HWY.)
- NO PEDESTRIAN SIGNALS