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CITY OF SACRAMENTO

CITY MANAGER'S OFFICE
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TRAFFIC ENGINEERING DIVISION
1023 J STREET — SUITE 202 SACRAMENTO, CALIF. 95814

TELEPHONES (916)
TRAFFIC ENGINEERING 449-5307
OFF-STREET PARKING 449-5354
ON-STREET PARKING 449-5644

April 1, 1981

APPROVED
BY THE CITY COUNCIL

APR 7 1981

OFFICE OF THE
CITY CLERK

City Council
Sacramento, California

Honorable Members in Session:

SUBJECT: Undulations

SUMMARY

We have completed our evaluation study of the twelve locations in the City where undulations have been installed. The results are generally positive and we recommend that the next increment of streets on the updated priority list be installed around the City.

BACKGROUND

After experimenting with undulations on an abandoned street for several months in the summer of 1979, the Council authorized the first sets installed on Sandburg Drive. These were placed by City forces in October 1979. Upon a thorough evaluation of these two experimental projects, the Council directed the installation of the top ten streets on our Undulation Priority List and allocated \$40,000 for this initial phase of the program. As the contract awarded was under the amount budgeted, we were able to proceed with one additional location. Thus, as of September 1980, a total of twelve streets in the City have undulations installed.

Following the first installation on City streets, staff conducted a post card survey of Sandburg residents to determine the acceptance of the project. About 70% of the post cards were returned. Of these, 73% indicated that the undulations had aided in reducing speeding and 68% were in favor of keeping the undulations. Where we have installed them on the other eleven streets, we have received similar, mixed responses but with the majority of residents expressing approval. A wide range of critical comments were also received, however, including a petition by less than a majority of residents opposed to the installation of this project on Moddisson Avenue.

A comparison of traffic on all twelve streets, before and after the installation of undulations, revealed that on the average, speeds were reduced about five miles per hour. Traffic volume on some streets reduced slightly, but on a few it actually increased. A summary of the results of our evaluation study is provided for information as an attachment.

During the interval since completing the original priority list for this program, many additional requests from citizens have been received. Some of these did not meet the criteria established for this type of speed control measure, but on evaluation, several others did. These latter candidate locations have subsequently been added (according to their respective warrant points) to the Undulation Priority List which is attached.

An issue has developed regarding undulations on streets that are bus routes. Therefore, Regional Transit and the Sacramento School District have been advised so they can present arguments to the Council on the matter.

FINANCIAL DATA

Based on our recent experience with the eleven undulations installed by contract, we estimate the cost per set at about \$1,600, including signs and markings. We suggest that future undulations also be installed by contract. The previous phase of implementation was accomplished through allocation of \$40,000 of Revenue Sharing Funds. The Director of Finance recommends that Traffic Safety Funds be used for this year's program.

VOTE OF COMMITTEE

The Budget and Finance Committee voted two to one in favor of this item. Councilman Hoerber preferred that it be considered with next year's budget.

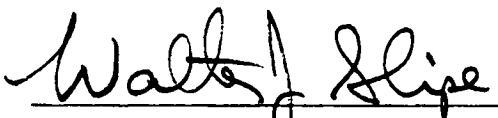
RECOMMENDATION

It is recommended that:

- A. The Council consider continuation of the Undulation Program by designating the top ten streets for implementation, according to the prioritization indicated in the attached listing.
- B. \$40,000 of Traffic Safety Funds be allocated for Fiscal Year 80-81 for the purpose of implementing the next phase of this program by adopting the attached resolution.


Respectfully submitted,

Recommendation Approved:



Walter J. Slipes, City Manager

LMF/vmp
Attachments



L. M. Frink, Traffic Engineer

April 7, 1981
All Districts

RESOLUTION NO. 81-266

Adopted by The Sacramento City Council on date of

A RESOLUTION AMENDING THE CITY BUDGET FOR FY 1980-81
BY \$40,000 FOR THE INSTALLATION OF UNDULATIONS.

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO:

1. The placement of undulations of certain City streets has been determined to be an effective means of controlling excessive speed.
2. The City Budget for Fiscal Year 1980-81 is hereby amended by transferring \$40,000 from the Unappropriated Traffic Safety Fund 2-08 Balance to the Engineering Capitol Improvement Budget 2-08-2600-2714-4820, for the purpose stated in Paragraph one above.

MAYOR

ATTEST:

CITY CLERK

APPROVED
BY THE CITY COUNCIL

APR 7 1981

OFFICE OF THE
CITY CLERK

Evaluation of Undulations
on
Twelve City Streets

<u>PRIMARY STREETS</u>	<u>FROM</u>	<u>TO</u>	<u>Average Speed</u>		<u>Average Traffic</u>	
			<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After</u>
Sandburg Drive	Carlson Drive	Carlson Drive	34	29	1,390	1,226
Wissemann Drive	Folsom Boulevard	Merribrook Drive	41	37	4,351	5,372
Moddison Avenue	Carlson Drive	Erlewine Circle	38	37	3,037	2,555
24th Street	Donner Way	Sutterville Road	37	30	4,420	3,060
14th Street	43rd Avenue	South Land Park Drive	39	33	2,024	1,246
Karbet Way	Riverside Boulevard	Seamas Avenue	40	37	2,485	2,747
29th Street	Gardendale Road	Trentwood Way	33	31	3,212	3,525
Scripps Drive	University Avenue	American River Drive	33	29	3,049	4,392
Matson Drive	Tamoshanter Way	Balfour Way	40	33	2,124	2,019
68th Avenue	Tamoshanter Way	24th Street	39	33	1,780	1,602
26th Avenue	24th Street/WPRR	Franklin Boulevard	41	33	3,396	3,400
Wilkinson Street	38th Avenue	Fruitridge Road	<u>38</u>	<u>29</u>	<u>2,033</u>	<u>1,411</u>
		Average:	38	33	2,775	2,713

UNDULATIONS
Revised Priority List

As of 12/17/80.
 N/L: Not Listed

<u>PRIMARY STREETS</u>	<u>FROM</u>	<u>TO</u>	<u>TOTAL POINTS</u>	<u>PREVIOUS PRIORITY ORDER</u>
1. 68th Avenue	Putnam Way	21st Street	124	12
2. Perry Avenue	46th Street	Stockton Boulevard	122	13
3. Fairbanks Avenue	Western Avenue	Norwood Avenue	118	14
4. Tamoshanter Way	Matson Drive	68th Avenue	115	N/L
5. Amherst Street	Florin Road	Meadowview Road	114	15
6. 58th Street	14th Avenue	21st Avenue	114	16
7. Del Rio Road	Sutterville Road	Alta Drive	113	17
8. North Avenue	Marysville Boulevard	Dry Creek Road	113	18
9. Bell Avenue	Norwood Avenue	End of Bell Avenue	111	19
10. Seamas Avenue	Riverside Boulevard	Piedmont Drive	111	20
11. 48th Street	Folsom Boulevard	T Street	110	N/L
12. Bamford Drive	Center Parkway	Valley Hi Drive	109	21
13. Tamoshanter Way	Matson Drive	Meadowview Road	109	N/L
14. Luther Drive	Florin Road	52nd Avenue	107	22
15. 65th Avenue	21st Street	Milford Street	107	N/L
16. Los Robles Boulevard	Marysville Boulevard	Del Paso Boulevard	105	23
17. Northview Drive	West El Camino Avenue	Haggin Avenue	105	24
18. 73rd Street	14th Avenue	21st Avenue	105	25
19. Commons Drive	Swarthmore Drive	Campus Commons Road	103	26
20. Fairfield Street	Las Palmas Avenue	Arcade Boulevard	102	27
21. Del Rio Road	Sutterville Road	Normandy Lane	100	N/L
22. Farmdale Way	South Land Park Drive	Branford Way	99	28
23. Havenside Drive	Riverside Boulevard	Sail/Shoreline Circle	99	29
24. Wallace Avenue	38th Avenue	Fruitridge Road	99	30

UNDULATIONS
Revised Priority List

As of 12/17/80.
N/L: Not Listed

<u>PRIMARY STREETS</u>	<u>FROM</u>	<u>TO</u>	<u>TOTAL POINTS</u>	<u>PREVIOUS PRIORITY ORDER</u>
25. 34th Avenue	El Arado Way	Dana Way	99	76
26. 62nd Street	14th Avenue	21st Avenue	99	31
27. 63rd Street	Fruitridge Road	21st Avenue	99	32
28. Altos Avenue	Arcade Boulevard	Eleanor Avenue	97	33
29. Havenhurst Drive	Westmoreland Avenue	Greenhaven Drive	97	34
30. Morey Avenue	Norwood Avenue	Western Avenue	97	35
31. 64th Street	21st Avenue	Fruitridge Road	97	36
32. T Street/Kroy Way	59th Street	Broadway	96	37
33. Belleview Avenue	Fruitridge Road	Lemon Hill Avenue	94	38
34. John Still Drive	22nd Street	24th Street	93	39
35. Potrero Way	Freeport Boulevard	Monte Way	93	N/L
36. Wyndham Drive	Valley Hi Drive	Bruceville Road	92	40
37. 8th Avenue	Riverside Boulevard	South Land Park Drive	91	N/L
38. Surfside Way	Benham Way	Driftwood Street	90	41
39. Ventura Street	47th Avenue	Encinal Avenue	90	42
40. Fernandez Drive	24th Street	26th Street	89	43
41. Alma Vista	Pocket Road	Branwood Way	88	44
42. 63rd Street	14th Avenue	21st Avenue	88	45
43. 11th Avenue	Stockton Boulevard	59th Street	86	N/L
44. Arcade Boulevard	Lindley Drive	Altos Avenue	85	46
45. 21st Street/57th Avenue	Florin Road	Hogan Drive	85	47
46. 57th Street	T Street	Broadway	85	48
47. 75th Street	50th Avenue	53rd Avenue	85	49
48. North Avenue	Dry Creek Road	Rio Linda Boulevard	83	50

UNDULATIONS
Revised Priority List

<u>PRIMARY STREETS</u>	<u>FROM</u>	<u>TO</u>	<u>TOTAL POINTS</u>	<u>PREVIOUS PRIORITY ORDER</u>
49. Morrison Avenue	Norwood Avenue	Western Avenue	82	51
50. 27th Avenue	Riverside Boulevard	South Land Park Drive	82	52
51. 8th Avenue	Stockton Boulevard	59th Street	80	N/L
52. 35th Avenue	Freeport Boulevard	South Land Park Drive	78	53
53. Fordham Way	13th Avenue	South Land Park Drive	77	54
54. 32nd Avenue	28th Street	Franklin Boulevard	77	55
55. Arcade Boulevard	Eleanor Avenue	Grove/Arcade Boulevard	76	56
56. Piedmont Drive	Riverside Boulevard	Seamas Avenue	75	57
57. 36th Avenue	28th Street	Franklin Boulevard	74	58
58. Sandburg Drive	Carlson Drive	Moddison Avenue	73	59
59. Sun River Drive	43rd Avenue	Elder Creek Road	73	60
60. 35th Avenue	28th Street	Franklin Boulevard	72	61
61. Northview Drive	West El Camino Avenue	Garden Highway	71	62
62. 38th Avenue	28th Street	Franklin Boulevard	70	63
63. 33rd Avenue	28th Street	Franklin Boulevard	66	64
64. Alma Vista	Meadowview Road	Branwood Way	65	N/L
65. Benham Way	Arabella Way	Surfside Way	65	65
66. Fordham Way	43rd Avenue	47th Avenue	65	66
67. Olmstead Drive	Western Avenue	Fairbanks Avenue	65	67
68. Rivera Drive	Rio Linda Boulevard	High Street	65	68
69. South Avenue	Norwood Avenue	Western Avenue	65	69
70. 37th Avenue	28th Street	Franklin Boulevard	65	70
71. 34th Avenue	28th Street	Franklin Boulevard	58	71
72. Myrtle Vista Avenue	Eloah Way	Silver Oak Way	57	72

UNDULATIONS
Revised Priority List

As of 12/17/80.
N/L: Not Listed

<u>PRIMARY STREETS</u>	<u>FROM</u>	<u>TO</u>	<u>TOTAL POINTS</u>	<u>PREVIOUS PRIORITY ORDER</u>
73. Northglen Street	West El Camino Avenue	Haggin Avenue	55	73
74. Glenville Circle	La Riviera Drive	Mossglen Circle	50	74
75. Claire Avenue	Marysville Boulevard	Dry Creek Road	49	75
76. 71st Street	Fruitridge Road	End of 71st Street	46	77
77. Waterglen Circle	La Riviera Drive	La Riviera Drive	42	78
78. 15th Avenue	Stockton Boulevard	55th Street	41	79
79. Hollyhurst/Gardenview Drive	Franciscan Way	Center Parkway	31	80