Appendices

Appendix A

References

Federal Highway Administration – Bicycle and Pedestrian Program: http://www.fhwa.dot.gov/environment/bikeped/

The Pedestrian and Bicycle Information Center (PBIC) http://www.walkinginfo.org/main

U.S. Department of Transportation - Federal Highway Administration. An Analysis of Factors Contributing to Walking Along Roadway Crashes: Research Study and Guidelines for Sidewalks and Walkways. Report No. FHWA-RD-01-101, February 2002.

National Highway Traffic Safety Administration. Pedestrian Roadway Facilities. DOT HS 809 456, April 2003.

Surface Transportation Policy Project (STTP) – *Mean Streets 2002*. http://www.transact.org/

Walkable Communities, Inc. http://www.Walkable.org/index.htm

Sarkar, Sheila and Van Houten, Ron and Moffatt, John. *Missed Opportunity: Educating Drivers Using License Manual to Increase Awareness about Pedestrian Hazards at Intersections.*

Lalani, Nazir and the Institute of Transportation Engineers Pedestrian and Bicycle Task Force. *Alternative Treatments for At-Grade Pedestrian Crossings*. Institute of Transportation Engineers, Washington D.C., 2001

Ewing, Reid. Traffic Calming State of the Practice. Institute of Transportation Engineers, Washington D.C., August 1999.

Swedish National Road Administration. *Pedestrians and Cyclists, Exposure and Injury Risks in Different Traffic Environments for Different Age Groups*.

Oregon Department of Transportation. http://www.odot.state.or.us/

U.S. Department of Transportation, Federal Highway Administration. *A Review of Pedestrian Safety Research in the United States and Abroad*. Publication No FHWA-RD-03-042, January 2004.

U.S. Department of Transportation, Federal Highway Administration. *Manual on Uniform Traffic Control Devices*, 2000 (and 2003 Supplement). December 2000.

Appendix B

Pedestrian Plan Improvement Projects (1999-2003)

The following lists of projects include all capital construction projects funded by the City's *Pedestrian Plan* program. Funding for the program is provided by the Building Community Choices tax initiative. Projects include sidewalk construction, access ramps, improved pedestrian street crossings, increased accessibility for individuals with disabilities, traffic calming measures, and public education and outreach.

	1999 Projects	
	Location	Project Description
1	Horsetooth @ Northstar	Install 6'-7' wide sidewalk and retaining wall from Dunbar to Northstar
2	620 W. Oak	Install 4' around City tree. (~50 L.F.)
3	Olive & Grant	New Sidewalk and Access Ramp Improvements
4	Cherry & Sherwood	Alley crossing installed to connect sidewalks on each side.
5	Highcastle Dr.	Small sidewalk repair, (~15 L.F.).
6	Blevins Park	8' sidewalk reconstructed due to severe grade of existing sidewalk, as well considerable landscape. (~150 L.F.)
7	Overland Trail @ Sumac	5' sidewalk constructed between Sumac & Azalea. (~225 L.F.)
8	Boardwalk& Lemay	Sidewalk along Boardwalk from Lemay west
9	College, south of Pitkin	New walk and access ramp in front of Forest Service Bldg. On S. College
10	Lemay @ Stoney Hill (east side)	5' sidewalk constructed from Stoney Hill in north direction on east side of road. (~325 L.F.)
11	Safe Route to School	Traffic calming, such as raised crosswalks, and misc. improvements
12	Pedestrian Audible Signals	Install audible pedestrian signals
13	Public Information / Education	Conduct public workshops, events, and provide educational materials

	2000 Projects	
	Location	Project Description
1	1160 W. LaPorte Ave.	New 4' infill sidewalk project to provide connectivity to sidewalks in area. (~100 L.F.)
2	Fuqua / Clearview	New 6' attached sidewalk to provide connectivity to bus stop. (~75 L.F.)
3	Plum / Peterson	8 ramps installed at intersection with sidewalk reconstruction to meet grade requirements.
4	Stover / Elizabeth	New 4' sidewalk/curb/gutter to correct 18" curb and sidewalk. (~225 L.F.)
5	Magnolia & Washington	New 4' sidewalk @ Southeast corner property and ramp installation to provide connectivity.
6	Mulberry & Grant	New 4' sidewalk @ Northwest corner property and ramp installation to provide connectivity.
7	JFK / Horsetooth	Northwest corner sidewalk realignment to bring ramp to radius.
8	310 E. Mountain	New 6' infill sidewalk project to provide connectivity to sidewalks in area. (~100 L.F.)
9	900 Blk. Sycamore	New 4' infill sidewalk project to provide connectivity to sidewalks in area.
10	Elizabeth L&P Arial Drop	Partnering with Light & Power to widen 2.5' sidewalk to 6' after utilities placed under sidewalk.
11	Sheely Neighborhood Area	Install sidewalks where possible and separate from roadway
12	Trail bridge to park & Blevins	Install pedestrian bridge over P V & L Canal
13	Ped X-ing @ Drake & Yorkshire	Contribution to Traffic Ops for new intersection ramps
14	Civic Center Project	Contribution to the Downtown 4 - Corners Project
15	Safe Route to School	New striping around schools, traffic calming, such as raised crosswalks, misc. improvements
16	Pedestrian Audible Signals	Audible pedestrian signals/misc. improvements
17	Public Information & Education	Public outreach, workshops, & materials

	2001 Projects	
	Location	Project Description
1	Remington / Lake Street	New 6' attached / detached sidewalk from Buckeye Ave to Lake St. Parker / 4 new ramps. (~500 L.F.)
2	Sherwood / Sycamore	New 4' infill sidewalk project to provide connectivity to sidewalks in area & Lee Martinez Park.
3	Mulberry / Crestmore	3 large trees removed to construct 6' attached sidewalk. Improves visibility. (~225 L.F.)
4	Remington/Prospect (1600 Block)	New 6' detached sidewalk from Prospect Ave to Parker, (~725 L.F.)
5	100 Block Prospect	New 5-6' attached sidewalk from College Ave to railroad tracks w/ hand rails, (~425 L.F.)
6	228 West Prospect	New 12' retaining wall / handrail and 6' sidewalk constructed across property. (~90 L.F.)
7	832-900 West Prospect	New 3' retaining wall and 5' sidewalk constructed across property. (~200 L.F.)
8	Landings Drive	Install 6' Attached / 10 Access Ramps from Horsetooth to Spinnaker, (~1750 L.F.)
9	S. College / Elizabeth	Install additional access ramp to separate bikes and pedestrians
10	Laurel St., @ park / school	Improve pedestrian x-ing and access to park and school
11	Civic Center Project	Contribution to the Downtown 4 - Corners project
12	Safe Route to School	Pedestrian signals, traffic calming, such as raised crosswalks, striping, misc. improvements
13	Pedestrian Audible Signals	Install audible pedestrian signals/misc. improvements
14	Public Information / Education	Conducted public workshops w/ Walkable Communities, misc. materials

	2002 Projects	
	Location	Project Description
1	South College Ave	Install 7' Attached / 6' Detached sidewalk from Swallow to E. Foothills Pkwy.
2	Landing Dr	Repairs / Changes / Improvements to prior year construction of 6' sidewalk
3	Lab / Washington Elementary	P.S.D. Cost share to widen sidewalks to 8'. (~ 800 L.F.)
4	Blevins Jr. High	More than 625 L.F. of Curb/Gutter and 6-7' wide sidewalk between 2034-2106 S. Taft Hill Road
5	Putnam Elementary	P.S.D. Cost share to widen sidewalks to 8'. (~225 L.F.)
6	Dunn Elementary	P.S.D. Cost share to widen sidewalks to 8'. (~325 L.F.)
7	McClelland / Drake	Install 5' Sidewalk from Drake to Thunderbird on McClelland (east side)
8	Shields, @ Stuart & Spring Creek	Reconstruct walk & remove hazards, in conjunction with Street Oversizing project
9	W. Elizabeth Street	Design Phase 1 of walk improvements from Campus West Study Report, City Park to Shields; (Construction to occur in '04)
12	Safe Route to School	Traffic calming, restriping, raised crosswalks, misc. improvements
13	Pedestrian Audible Signals	Install audible pedestrian signals/misc. improvements
14	Public Information / Education	Began 'Safe Walk Fort Collins' program

	2003 Planned Projects	
	Location	Project Description
1	W. Elizabeth Street (Continued)	Continuation of Phase 1 design for walk improvements from Campus West Study Report, City Park to Shields; (Construct in '04)
2	Harmony Road	Sidewalk/trail Rock Bridge condos to Lemay (Construct in '04)
3	Drake Road @ CSU Vet Center	Off -street sidewalk from Research Dr to substation (Construct in '04)
4	W. Mulberry Street	Construct/widen walks in conjunction with Street Oversizing and install pedestrian bridge over ditch (Construct '04)
5	Stanford Road	Sidewalk from Monroe along Aspenleaf Apts.
6	College Ave so. of Foothills Pkwy	New 7' attached sidewalk over Larimer Co. #2 Canal to Monroe and install pedestrian bridge over canal. (Construct in '04)
7	College Avenue	Remove shrub and connect sidewalk, @ Deluxe Paint & Auto Zone
8	Safe Route to School	Pedestrian signal, traffic calming, such as raised crosswalks, signage, striping, misc. improvements
9	Pedestrian Audible Signals	Install audible pedestrian signals/misc. improvements
10	Public Information / Education	Continue 'Safe Walk Fort Collins' program

Appendix C

Prioritized Pedestrian Capital Projects and Cost Estimates (2003 dollars)

The following list identifies prioritized pedestrian projects and cost estimates listed in the City's *Transportation Master Plan*. Funding for the projects will come from several sources, including *Pedestrian Plan* funds, street construction projects, and state and federal grants. In order to construct the higher cost projects, *Pedestrian Plan* funds can be utilized as the local match to leverage state and federal grants.

No.	Project ID	Location	То	From	Facility Type	Description	Corresponding Project	Cost
1	P26	Elizabeth	City Park	Shields	Sidewalk improvements	Construct Phase I sidewalk improvements Campus West Study Report	В3	Funded in 2003
2	P9	College	Carpenter	Trilby	Sidewalks	Fill missing links in the walk system	R11A	Currently in County
3	P10	College	Trilby	Fossil Creek Pkwy	Sidewalks	Fill missing links in the walk system	R11B	Currently in County
4	P24	Drake	Research Dr	Electrical Substation	Sidewalks	Construct off street walk along CSU Vet Center, north side of street		Funded in 2003
5	P31	Harmony	JFK	Boardwalk	Sidewalks	Fill missing link in trail/walk system, 7-11 to Home Depot, north side of street, seek grant w/CDOT	R47A	Currently in County
6	P32	Harmony	Rock Creek Condos	Lemay	Sidewalks	Fill missing link in trail/walk system, north side of street, work with CDOT		Funded in 2003
7	P8	College	Vine	State Highway 1	Sidewalks	Fill missing links in the walk system, east and west side of street	R12A/R12B	Included under streets
8	P59	Stanford	Horsetooth	Monroe	Sidewalks	Construct sidewalk in front of Aspenleaf Apartments on east side of street		Funded in 2003
9	P63	UPRR	Trilby		Under/overpass	Construct over/underpass along UP line with Parks Dept.	RR15	Included under rail

No.	Project ID	Location	То	From	Facility Type	Description	Corresponding Project	Cost
10	P33	Harmony	Boardwalk	Lemay	Sidewalks	Fill missing link in trail/walk system, north side of street, seek grant w/CDOT	R47A	Included under streets
11	P42	Linden	Jefferson	Buckingham	Sidewalks	Fill in missing links in sidewalk system	R77	Included under streets
12	P13	College	Foothills Pkwy	Monroe	Sidewalks	Construct sidewalk along east side of street, including pedestrian bridge over Larimer Co. #2 ditch		Funded in 2003
13	P29	Harmony	Shields	Starflower	Sidewalks	Construct walk on south side adjacent to FR Community College		\$65,000
14	P47	MTC	Various		Neighborhood connections	Improve pedestrian connections to the MTC consistent with MTC project		Included in MTC cost
15	P45	Mason	Laurel		Pedestrian crossing	Improve pedestrian crossing with MTC project		\$200,000
16	P4	Cherry	Howes	College	Sidewalks	Fill in missing links in the sidewalk system on south side of street		\$50,000
17	P34	Horsetooth	Taft Hill	Shields	Sidewalks	Fill in missing links in sidewalk system	R52B	Included under streets
18	P14	College	Swallow, Harvard		Improvements	Construct pedestrian facilities in medians with sidewalks and ramps		\$35,000
19	P67	Vine	Linden	Lemay	Sidewalks	Construct sidewalks on north and south side of street		\$210,000
20	P39	Lemay	Lincoln	Vine	Sidewalks	Construct off street walk/path along east side of Lemay	R71	Included under streets
21	P1	Alta Vista			Sidewalks	Provide/improve sidewalks on Vine, Lemay, & local roads with drainage & street maintenance project		\$1,200,000
22	P36	LaPorte	Sunset	Taft Hill	Sidewalks	Fill in missing links in sidewalk system, north and south side of street	R62A	Included under streets

No.	Project ID		То	From	Facility Type	Description	Corresponding Project	
23	P41	Lincoln	Riverside	Lemay	Sidewalks	Construct temporary walk on north side of road, partial overlap with Buckingham walk		\$200,000
24	P64	Vine	Taft Hill	Lyons	Sidewalks	Construct separate pedestrian facilities, north and south side of street	R145B	Included under streets
25	P19	Cooper Slough	Mulberry		Underpass	Construct underpass at Mulberry with Parks, Stormwater dept. and CDOT	B58	Included in SH 14 AMP
26	P30	Harmony	College	Boardwalk	Sidewalks	Construct sidewalk on south side of Harmony	R47A	Currently in County
27	P49	Mulberry	City Park	Shields	Sidewalks	Fill missing links and increase width of attached walk	R86	Included under streets
28	P18	College Frontage Road	Harvard	Drake	Sidewalks	Install attached sidewalk on the east side of street where necessary		\$50,000
29	P61	Timberline	Caribou		Underpass	Construct trail and RR underpass to Kruse Elementary through City detention area		\$1,200,000
30	P11	College	Fossil Creek Pkwy	Harmony	Sidewalks	Fill in missing links in sidewalk system	R11C	Included under streets
31	P65	Vine	College	Linden	Sidewalks	Construct sidewalks south side of street	R146A	Included under streets
32	P35	JFK Pkwy	Bockman	Horsetooth	Sidewalks	Construct walk from bridge along empty field to existing walk south of Horsetooth		\$50,000
33	P37	Laurel	Stover	Endicott	Sidewalks	Fill in missing links in the sidewalk system on south side of street		\$50,000
34	P60	Taft Hill			Trail access ramp	Construct ramp from Taft Hill Rd walk/bike lanes to trail with street improvements		\$210,000
35	P38	Lemay	Rule Drive	Oakridge Drive	Sidewalks	Construct sidewalk south of Harmony on east side of street in front of farm house		\$50,000

No.	Project ID	Location	То	From	Facility Type	Description	Corresponding Project	Cost
36	P25	Drake	Brookwood	RR crossing	Sidewalks	Sidewalk missing along south side of street		\$140,000
37	P3	Boardwalk	Harmony	Whalers	Sidewalks	Construct sidewalk on east side of street		\$50,000
38	P66	Vine	Lemay	Timberline	Shoulder pavement	8' asphalt shoulder along north side of street; cost not include bridges	R146B	Included under streets
39	P62	Troutman	BNSF rail line		Bike/pedestrian underpass	Connect neighborhood with College, construct with MTC project	RR16/TC13	Funded with MTC
40	P27	Fairway Lane	BNSF		Under/Overpass	Construct RR over/underpass for MTC south terminus, jointly with MTC		1,200,000
41	P43	Manhattan	South of Horsetooth		Sidewalks	Construct walk along east side of street from self storage facility to homes		\$100,000
42	P40	Lemay	Parkwood subdivision		Sidewalks	Missing sidewalk along Lemay on the east side of street		\$120,000
43	P57	Riverside	Mulberry	Mountain	Sidewalks	Fill in missing links in sidewalk system	R109	Included under streets
44	P51	Pedestrian Plan, ADA Ramps and Crossing Improvements				Includes ADA improvements, safe route to school projects, pedestrian audible signals		Funded with Capital
45	P44	Maple	Meldrum	Mason	Sidewalks	Fill in missing links in sidewalk system		\$45,000
46	P46	Mason	RR spur	Cherry	Sidewalks	Connect sidewalk from Maple to Cherry, jointly with MTC project	TC13	Funded with MTC
47	P15	Laurel	College	Shields	Sidewalk & intersection improvements	Construct & widen walks along street & intersection crossings		\$4,000,000
48	P54	Prospect	Lemay	Stover	Sidewalks	Construct and widen walks along north and south side of street		\$175,000
49	P28	Harmony	West of Regency		Sidewalks	Install walk on north side of street between Regency and Gates Development	R46B	Included under streets

No.	Project ID	Location	То	From	Facility Type	Description	Corresponding Project	Cost
50	P16	College	Olive		Downtown crosswalk replacement			\$50,000
51	P6	College	LaPorte		Downtown crosswalk replacement			\$50,000
52	P20	Lincoln	Jefferson	Willow	Bike/pedestrian streetscape improvements		R75	Included under streets
53	P21	Linden	Jefferson	Willow	Bike/pedestrian streetscape improvements		R77	Included under streets
54	P22	Jefferson/Riverside	College	Mulberry	Bike/pedestrian streetscape improvements		R109	Included under streets
55	P23	Willow	College	Lincoln	Bike/pedestrian streetscape improvements		R148	Included under streets
56	P52	Campus West District			Sidewalks	Construct sidewalks throughout district		\$550,000
57	P53	Prospect	Heath ridge		Traffic control signal	Install when warrants are achieved for safer bike/pedestrian crossing on Prospect		\$60,000
58	P55	Prospect	Lynwood		Traffic control signal	Install when warrants are achieved for safer bike/pedestrian crossing on Prospect		\$60,000
59	P5	College	Mountain		Downtown crosswalk replacement			\$50,000
							Total Cost	\$12,150,000

Imagine the possibilities...



