APPENDIX E: GLOSSARY

The material in this glossary is largely taken from the International Pedestrian Lexicon available online at: http://user.itl.net/~wordcraf/lexicon.html#a. Other definitions came from a variety of other sources.

AASHTO – American Association of State Highway and Transportation Officials: it is a nonprofit, nonpartisan association representing highway and transportation departments of all transportation modes in the 50 states, the District of Columbia and Puerto Rico.

ADA – American Disabilities Act of 1991. The Act gives civil rights protections to individuals with disabilities including equal opportunities in public accommodations, employment, transportation, State and local government services, and telecommunications.

Advance stop lines - applies to a stop line placed prior to a crosswalk, to either prevent encroachment, or to improve visibility it plays an important safety role especially in multilane roads

Alternative Transportation Network – a connected system for travel using transportation other than private cars, such as walking, bicycling, rollerblading, carpooling and transit

Arterial connections – interconnected corridors designed to accommodate a large volume of through traffic

Bargain sale - sale of a property at less than the fair market value. The difference between a bargain sale price and fair market value often qualifies as a tax-deductible charitable contribution.

BGMPO - Burlington Graham Metropolitan Planning Organization

Blank walls – relatively large walls of empty surface that provide opportunity for vandalism with graffiti. Set backs, special lighting, and aesthetic architectural interruptions are possible blank wall treatments.

Blighted building – a structure whose condition within the town, neighborhood or city is detrimental to the physical, social, and/or economic well-being of that community



Bridge culvert – a sewer or drain crossing used for the transference of surface water from a bridge

Buffer zone - an area of land specifically designed to separate one zoning use from another

Bulb-out - extended pavement to narrow roadway, or pinch through fare, or provide space for bus stop, bench, etc.

Concurrent signal timing - motorists running parallel to a crosswalk are allowed to turn into and through the crosswalk (left or right) after yielding to pedestrians

Condemnation - the taking of private property for public use, with adequate compensation to the owner, under the right of eminent domain

Connectivity - the logical and physical interconnection of functionally related points so that people can move among them

Conservation easement - a legally binding agreement not to develop part of a property, but to leave it "natural" permanently or for some designated very long period of time regardless of ownership transfer

Corridor - a spatial link between two or more significant locations

Crosswalk - a designated point on a road at which some means are employed to assist pedestrians wishing to cross. They are designed to keep pedestrians together where they can be seen by motorists, and where they can cross most safely with the flow of vehicular traffic.

Curb cut - a ramp leading smoothly down from a sidewalk to an intersecting street, rather than abruptly ending with a curb

Curb extension - a section of sidewalk at an intersection or midblock crossing that reduces the crossing width for pedestrians and is intended to slow the speed of traffic and increase driver awareness

Curb ramp - interruption in the curb, as for a driveway

Driveway apron – the section of a driveway between the sidewalk and the curb

Eminent domain - interruption in the curb, as for a driveway

EPA - Environmental Protection Agency



Fee simple purchase - an outright purchase of the land by municipality

FHWA – Federal Highway Administration

First right of refusal - the right specified in an agreement to have the first opportunity to purchase or lease a given property before it is offered to others

Fitness Trail - a pathway upon which users jog or walk from station to station to perform various exercise tasks

Greenway - a linear open space; a corridor composed of natural vegetation. Greenways can be used to create connected networks of open space that include traditional parks and natural areas.

High volume artery – an important transportation corridor that is used by large traffic levels

Hydrologic resources – stream and sewer corridors and buffer zones that can be used to facilitate the building of greenways

Incentive zoning - a system by which zoning incentives are provided to developers on the condition that specific physical, social, or cultural benefits are provided to the community

Intersection - an area where two or more pathways or roadways join together

Islands of vegetation - a landscaping feature that is planted with flora chosen for its ability to remove pollution and toxins. These spaces manage stormwater runoff from impervious surfaces; the water is slowed down, preventing erosion and allowing water to be absorbed into the ground.

Leaseback - the process of selling a property and also entering into a lease to continue using that property

Linear stream corridor - generally consists of the stream channel, floodplain, and transitional upland fringe aligned linearly

LPI – Leading pedestrian interval. Pedestrians are given the signal to begin crossing before parallel traffic.

Median - a median is a barrier, constructed of concrete, asphalt, or landscaping, that separates two directions of traffic

Median refuge island - an area within an island or median that is intended for pedestrians to wait safely for an opportunity to continue crossing



MPO - Metropolitan Planning Organization

MST - Mountains-to-Sea Trail

Multi-use path - a designated right-of-way for simultaneous use by walkers, joggers, bike riders, in-line skaters and those using other non-motorized methods of travel

Municipal boundary – the limit of municipal jurisdiction

Nature trail - a marked trail designed to lead people through a natural environment which highlights and protects resources

NCDOT - North Carolina Department of Transportation

Negotiated dedications - a local government may ask a landowner to enter into negotiations for certain parcels of land that are deemed beneficial to the protection and preservation of specific parcel of land

Off-road trail – paths or trails in areas not served by the street system, such as parks and greenbelt corridors. Off-street paths are intended to serve both recreational uses and other trips, and may accommodate other non-motorized travel modes in addition to walking.

On-road pedestrian facility – any sidewalk, curb, or crosswalk designed for pedestrian use

Open space - empty or vacant land which is set aside for public or private use and will not be developed. The space may be used for passive or active recreation, or may be reserved to protect or buffer natural areas.

Overlay zone - a zone or district created by the local legislature for the purpose of conserving natural resources or promoting certain types of development. Overlay zones are imposed over existing zoning districts and contain provisions that are applicable in addition to those contained in the zoning law.

Pedestrian - a person on foot or a person on roller skates, roller blades, child's tricycle, non-motorized wheelchair, skateboard, or other non-powered vehicles (excluding bicycles)

Pedestrian corridor - refers to any on-road sidewalks

Planned unit development (PUD) - a project or subdivision that includes common property that is owned and maintained by a homeowners' association for the benefit and use of the individual PUD unit owners



Pocket park - a small area accessible to the general public that is often of primarily environmental, rather than recreational, importance; they can be urban, suburban or rural and often feature as part of urban regeneration plans in inner-city areas to provide areas where wild life can establish a foothold.

Preservation easement – a voluntary legal agreement that protects historic, archaeological, or cultural resources on a property. The easement provides assurance to the property owner that intrinsic values will be preserved through subsequent ownership. In addition, the owner may obtain substantial tax benefits.

Public Access Easement – a voluntary legal agreement which grants a municipality a perpetual right-of-way and easement for public access and public benefit

Quality of life - a measure of the standard of living which considers non-financial factors such as health, functional status and social opportunities that are influenced by disease, injury, treatment or social and political policy

Retrofit - the redesign and reconstruction of an existing facility or subsystem to incorporate new technology, to meet new requirements, or to otherwise provide performance not foreseen in the original design

Right turn cut-off - the channel created in larger intersection by a very long turning radius and the construction of a pedestrian island, to which the pedestrian must cross before being in the formal intersection that is controlled by lights. The right-turn cut-off allows continuous right turns at fairly high speeds without stopping but the drivers who are meant to but at times do not yield to pedestrians.

Roundabout - traffic calming device at which traffic streams circularly around a central island after first yielding to the circulating traffic

ROW (right of way) - an easement held by the local jurisdiction over land owned by the adjacent property owners that allows the jurisdiction to exercise control over the surface and above and below the ground of the right-of-way; usually designated for passage

RTOR – Right turn on red

Shared-use path - A bicycle and pedestrian path separated from motorized vehicular traffic by an open space, barrier or curb. Shared-Use Paths may be within the highway right-of-way (often termed "sidepath") or within an independent right-of-way, such as on an abandoned railroad bed or along a stream valley park. Shared use paths typically accommodate two-way travel and are open to pedestrians, in-line skaters, wheelchair users, joggers and other non-motorized path users



Sidewalk - an improved facility intended to provide for pedestrian movement; usually, but not always, located in the public right-of-way adjacent to a roadway. Typically constructed of concrete, but can be made with asphalt, bricks, stone, wood, and other materials.

Thoroughfare - a public road from one place to another, designed for high traffic volumes and essential connections

TND (traditional neighborhood development) - an area of land developed in a planned fashion for a compatible mixture of residential units for various income levels and nonresidential commercial and workplace uses, with a high priority placed on access to open spaces

Traffic calming - a range of measures that reduce the impact of vehicular traffic on residents, pedestrians and cyclists - most commonly on residential streets, but also now on commercial streets

Trip attractor - a location which, because of what it contains, generates itself as a destination for people

Village center - an area in a community where people naturally congregate

Woonerf - a living street (also known as a home zone, and by the Dutch name woonerf) is a street in which, unlike in most streets, the needs of car drivers are secondary to the needs of users of the street as a whole. It is a space designed to be shared by pedestrians, playing children, bicyclists, and low-speed motor vehicles

Yield street - a narrower 26 to 28' wide street and has one auto yield to another as they pass. Parking is parallel on both sides. This type of roadway is suitable for attached residential and mixed-use, and the 26' wide is more suitable for single family homes generally.

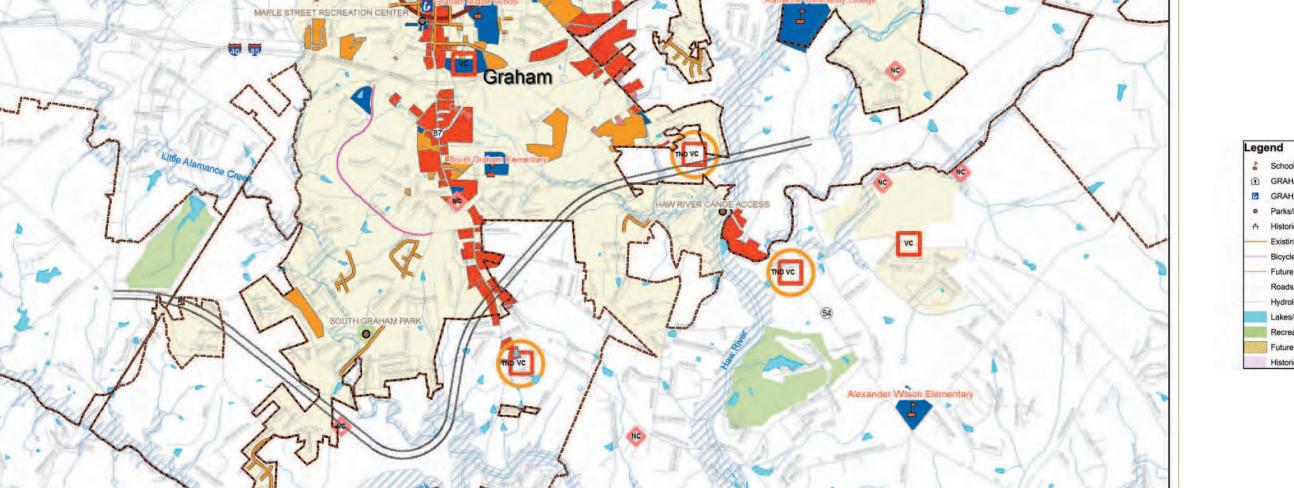


Burlington



Existing Conditions



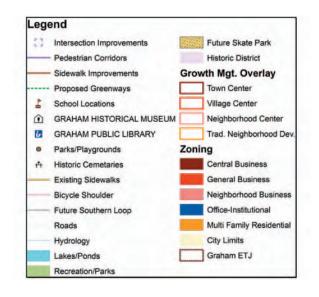




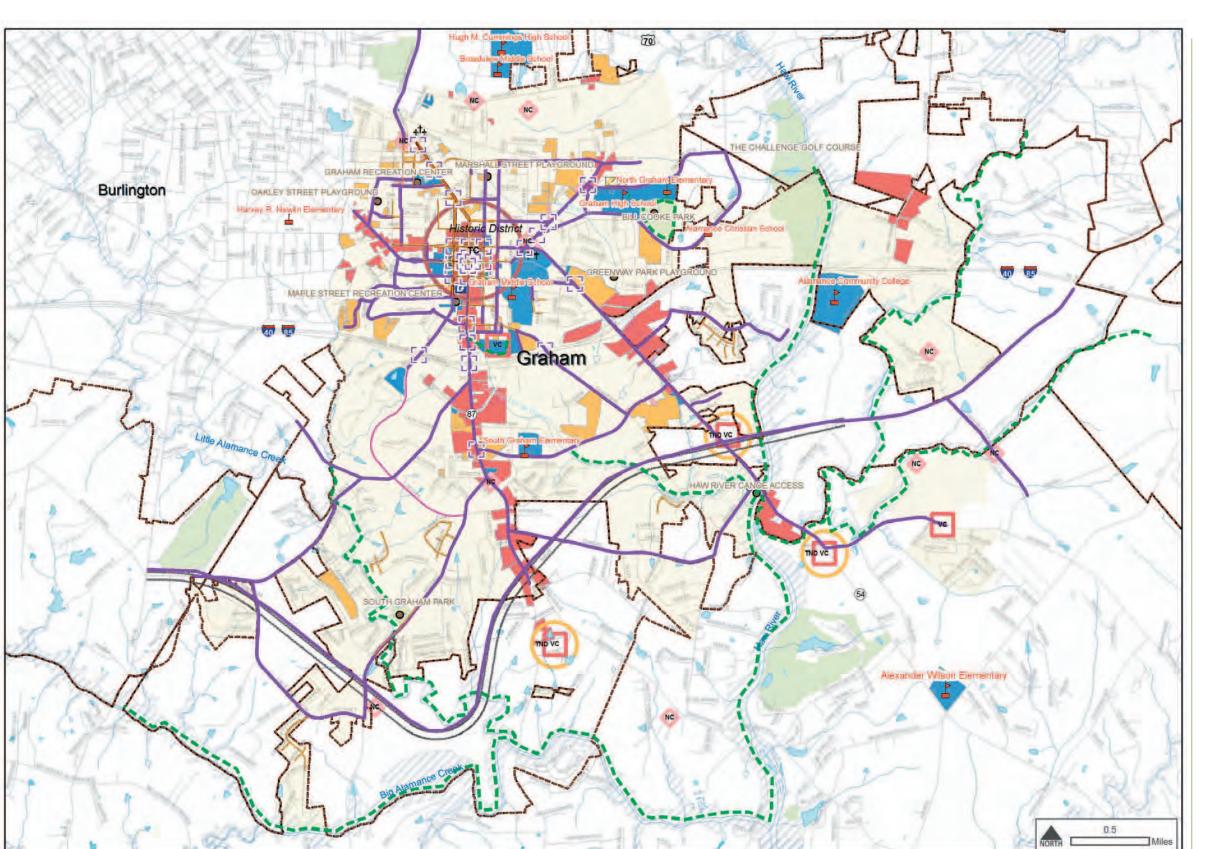
Map 2



Recommended Network Plan







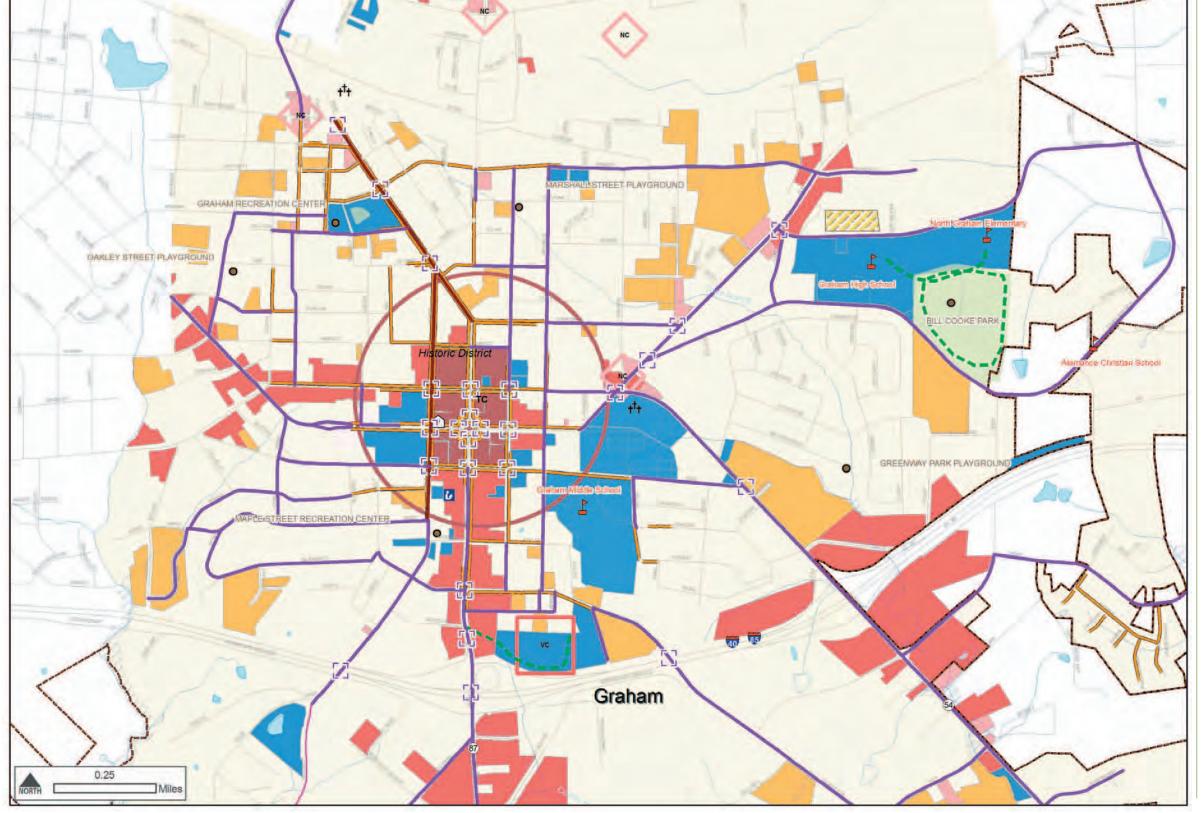
Data Sources: City of Graham



Recommended Network Plan

Downtown



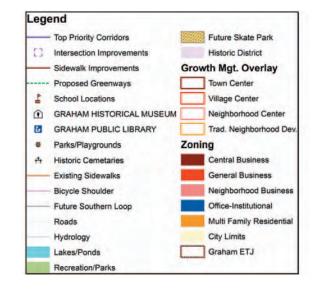


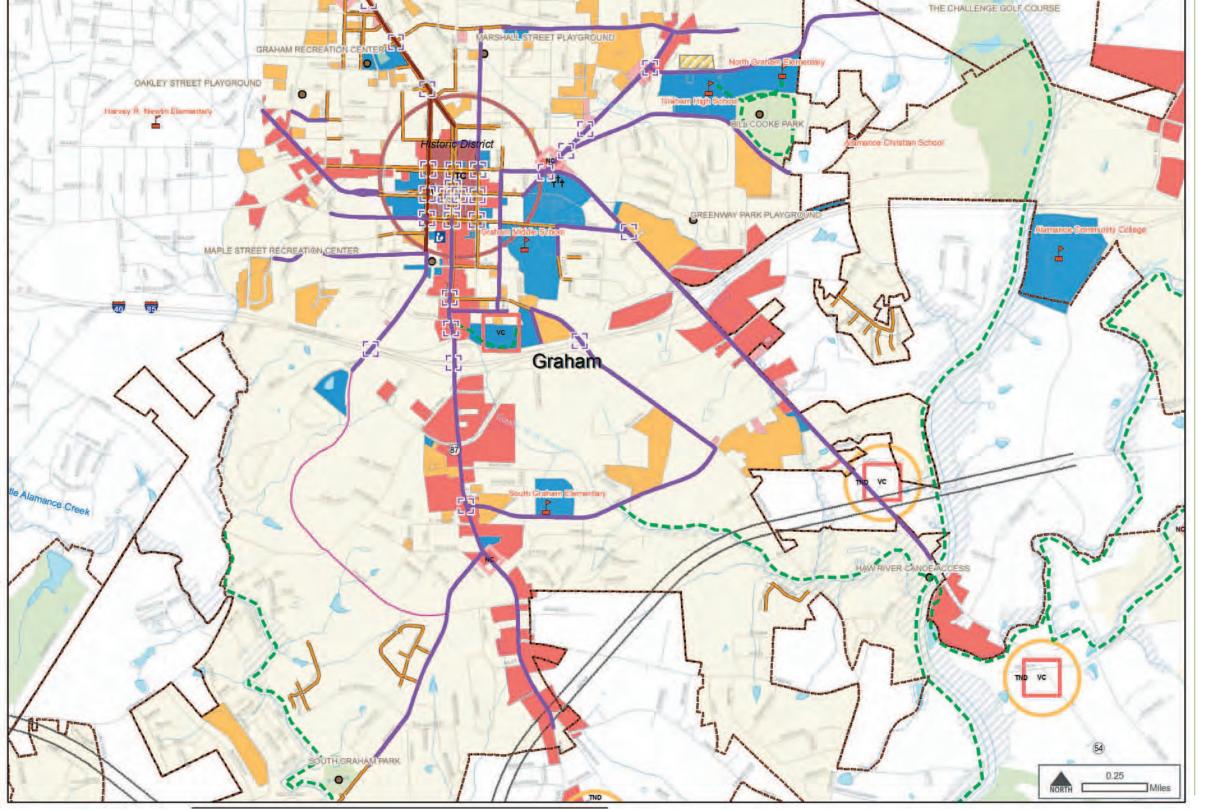




Recommended Network Plan

Top Priority Corridors









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Primary Pedestrian Corridors	From	То	5	4	3	3	3	3	1	2	2	3	2	2	2	2	2	3	2	Priority Score Total	Phase
Elm	Flanigan	Parker	0	4	3	3	3	0	0	2	0	0	2	2	2	2	2	2	2	29	Short-Term
Town Branch	Elm	Teer	5	4	3	3	3	3	0	2	0	0	2	2	0	0	2	0	0	29	Short-Term
Main	Rogers	Robin	0	4	3	0	3	0	1	2	0	0	2	2	2	2	2	3	2	28	Short-Term
Melville	Robin	Harden	5	0	3	0	3	0	0	2	2	0	2	0	0	2	0	3	2	24	Short-Term
Trollinger	Elm	Town Branch	5	4	0	3	3	3	0	0	0	0	2	2	0	0	2	0	0	24	Short-Term
Elm	Oneida	Boone	0	4	0	0	3	0	0	2	0	0	2	0	2	2	2	3	2	22	Short-Term
Main	Robin	Pine	0	0	3	0	3	0	1	0	0	3	2	0	2	2	0	3	2	21	Short-Term
Pine	Home	Maple	0	0	3	0	3	0	0	0	0	3	2	0	0	2	0	3	2	18	Short-Term
Marshall	Parker	Harden	0	0	3	0	3	0	0	2	0	3	0	0	0	2	0	3	2	18	Short-Term
Market	Main	Marshall	0	0	3	0	3	0	0	0	0	3	2	0	0	2	0	3	2	18	Short-Term
Harden	Pine	Melville	0	0	3	0	3	0	0	2	0	0	2	2	2	2	0	2	0	18	Short-Term
Pine	Goley	State Road 54	5	0	3	0	3	0	0	2	0	0	0	0	0	2	0	0	2	17	Short-Term
Main	Thompson	Rogers	0	4	0	0	0	0	0	0	2	0	2	2	2	0	2	3	0	17	Short-Term
Gilbreath	lvey	Ray	0	0	3	0	3	0	0	2	0	0	0	2	0	2	2	0	2	16	Short-Term
Robin	Main	Apple	0	0	3	0	3	0	0	2	2	0	2	0	0	2	0	0	2	16	Short-Term
State Road 54	lvey	Pine	0	0	3	0	3	0	0	2	0	0	2	2	2	0	2	0	0	16	Short-Term
Parker	Melville	Dead end	0	4	0	3	3	0	0	2	0	0	2	0	0	0	0	0	2	16	Short-Term
Goley	Johnson	Pine	5	0	3	0	3	0	0	0	0	0	0	0	0	2	0	0	2	15	Short-Term
Ray	Gilbreath	Cul-de-sac	0	0	3	0	3	0	1	2	2	0	0	0	0	2	0	0	2	15	Short-Term
Maple	Gant	Ward	0	0	3	0	3	0	0	0	0	0	0	0	0	2	2	3	2	15	Short-Term
Ward	Maple	Banks	0	0	3	0	3	0	0	2	0	0	0	0	0	2	0	3	2	15	Short-Term
State Road 54	Cooper	Ivey	0	0	0	0	3	3	1	2	0	0	2	0	2	0	2	0	0	15	Short-Term
Ivey	Main	Gilbreath	5	4	0	0	0	0	0	2	0	0	2	2	0	0	0	0	0	15	Short-Term
Rogers	Thompson	Main	0	4	0	0	3	0	1	0	0	0	2	0	0	0	0	3	2	15	Short-Term
Poplar	North	Elm	0	4	0	0	3	0	0	2	0	0	2	0	0	0	2	0	2	15	Short-Term
Gilbreath	Main	Denny	0	0	3	0	3	0	0	2	0	0	2	0	0	2	0	0	2	14	Mid-Term
Apple	Robin	Gilbreath	0	0	3	0	3	0	0	2	2	0	0	0	0	2	0	0	2	14	Mid-Term
Marshall	Gilbreath	McAden	0	0	3	0	3	0	0	2	0	0	2	0	0	2	0	0	2	14	Mid-Term
Carter	Trollinger	Town Branch	0	4	0	3	3	0	0	0	0	0	2	2	0	0	0	0	0	14	Mid-Term
Washington	Harden	College	0	0	0	0	3	0	0	2	0	0	2	2	0	2	0	0	2	13	Mid-Term
Town Branch	Teer	Trollinger	0	4	0	3	3	0	1	0	0	0	0	0	0	0	2	0	0	13	Mid-Term
Oneida	Harden	Elm	0	0	0	0	3	0	0	0	0	0	2	0	0	2	0	3	2	12	Mid-Term

Melville	Parker	Harden	0	0	3	0	3	0	0	0	0	0	0	0	0	2	0	2	2	12	Mid-Term
Rogers	Lacy Holt	Thompson	0	0	0	0	3	0	1	0	0	0	0	0	0	0	2	3	2	11	Mid-Term
College	North	Main	0	0	0	0	3	0	0	2	0	0	0	2	0	2	0	0	2	11	Mid-Term
Oakley	Elm	Border	0	4	0	0	3	0	0	2	0	0	2	0	0	0	0	0	0	11	Mid-Term
Lacy Holt	Monroe Holt	Rogers	0	0	0	0	3	0	0	0	0	0	0	0	0	0	2	3	2	10	Mid-Term
Weaver Way	Town Branch	Doggett	0	4	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	10	Mid-Term
Cooper	Cheeks	State Road 54	0	0	0	0	3	3	1	0	0	0	0	0	0	0	2	0	0	9	Mid-Term
Banks	Wilson	McBride	0	0	0	0	3	0	0	2	0	0	0	0	0	2	0	0	2	9	Mid-Term
Washington	Providence	River	0	0	0	0	3	0	0	0	0	0	0	2	0	0	2	0	2	9	Mid-Term
Hill	Pomeroy	Melville	0	0	0	0	3	0	0	2	0	0	0	0	0	2	0	0	2	9	Mid-Term
Noah	Woody	Lancelot	0	0	0	0	0	3	1	0	0	0	2	0	0	0	0	0	2	8	Long-Term
Providence	Washington	Main	0	0	0	0	3	0	0	0	0	0	0	2	0	0	0	0	2	7	Long-Term
Pomeroy	Travora	Parker	0	0	0	0	3	0	0	0	0	0	0	2	0	0	0	0	2	7	Long-Term
Home	Ward	Elm	0	0	0	0	3	0	0	0	0	0	2	0	0	2	0	0	0	7	Long-Term
Ivey	Gilbreath	State Road 54	0	0	0	0	0	0	0	2	0	0	2	2	0	0	0	0	0	6	Long-Term
Monroe Holt	Lacy Holt	Hanford	0	0	0	0	3	0	1	0	0	0	0	0	0	0	2	0	0	6	Long-Term
Border	Oakley	Sideview	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	2	5	Long-Term
Cheeks	Nicks/Hortense	Cooper	0	0	0	0	3	0	0	0	0	0	0	0	0	0	2	0	0	5	Long-Term
Woody	State Road 54	Noah	0	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	5	Long-Term
Denny	Gilbreath	Ward	0	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0	0	5	Long-Term
Hortense	Main	Nicks/Cheeks	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	4	Long-Term
Auto Park/Hanford	Monroe Holt	Main	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	4	Long-Term
Hanford	Old Coach	Monroe Holt	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	3	Long-Term
Raspberry	State Road 54	Cul-de-sac	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3	Long-Term

^{*} Points of Interest include the Graham Historical Museum and the Graham Public Library

sidewalks, regardless of the priority index..

^{**} Regional and City-wide connections represent links in and out of Graham & across 40/85)
*** If an opportunity arises (through Municipal or State Roadway Projects, Land Development Requirements, State Highway Participation, etc.) for the completion of an identified facility improvement, that opportunity should be taken regardless of its rank in the priority matrix. For example, new roads, such as the future 'Southern Loop' should provide

^{****} New pedestrian facilities should tie in seamlessly to existing facilities wherever possible.



Pedestrian Facility Cost Estimates

Primary Pedestrian Corridors*	From	То	Phase**	Distance (ft)	Cost per square foot***	Minimum Width (ft)	Estimated cost
Elm	Flanigan	Parker	Short-Term	4500	\$3	5	\$135,000
Town Branch	Elm	Teer	Short-Term	5100	\$3	5	\$153,000
Main	Rogers	Robin	Short-Term	5000	\$3	5	\$150,000
Melville	Robin	Harden	Short-Term	2800	\$3	5	\$84,000
Trollinger	Elm	Town Branch	Short-Term	5150	\$3	5	\$154,500
Elm	Oneida	Boone	Short-Term	3500	\$3	5	\$105,000
Main	Robin	Pine	Short-Term	1850 (one side there)	\$3	5	\$27,750
Pine	Home	Maple	Short-Term	1950	\$3	5	\$58,500
Marshall	Parker	Harden	Short-Term	2800	\$3	5	\$84,000
Market	Main	Marshall	Short-Term	500	\$3	5	\$15,000
Harden	Pine	Melville	Short-Term	3000	\$3	5	\$90,000
Pine	Goley	State Road 54	Short-Term	1350	\$3	5	\$40,500
Main	Thompson	Rogers	Short-Term	4600	\$3	5	\$138,000
Gilbreath	lvey	Ray	Short-Term	4800 (includes I-40 bridge)	\$3	5	\$144,000
Robin	Main	Apple	Short-Term	1100	\$3	5	\$33,000
State Road 54	lvey	Pine	Short-Term	4650	\$3	5	\$139,500
Parker	Melville	Dead end	Short-Term	4650	\$3	5	\$139,500
Goley	Johnson	Pine	Short-Term	600	\$3	5	\$18,000
Ray	Gilbreath	Cul-de-sac	Short-Term	700	\$3	5	\$21,000
Maple	Gant	Ward	Short-Term	2850	\$3	5	\$85,500
Ward	Maple	Banks	Short-Term	2750	\$3	5	\$82,500
State Road 54	Cooper	Ivey	Short-Term	4500	\$3	5	\$135,000
Ivey	Main	Gilbreath	Short-Term	5550	\$3	5	\$166,500
Rogers	Thompson	Main	Short-Term	5000	\$3	5	\$150,000
Poplar	North	Elm	Short-Term	1300	\$3	5	\$39,000
Gilbreath	Main	Denny	Mid-Term	3300	\$3	5	\$99,000
Apple	Robin	Gilbreath	Mid-Term	250	\$3	5	\$7,500
Marshall	Gilbreath	McAden	Mid-Term	650	\$3	5	\$19,500
Carter	Trollinger	Town Branch	Mid-Term	950	\$3	5	\$28,500
Washington	Harden	College	Mid-Term	1950	\$3	5	\$58,500
Town Branch	Teer	Trollinger	Mid-Term	4550	\$3	5	\$136,500

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Oneida	Harden	Elm	Mid-Term	500	\$3	5	\$15,000
Melville	Parker	Harden	Mid-Term	2900	\$3	5	\$87,000
Rogers	Lacy Holt	Thompson	Mid-Term	400 (2200 of existing SW on one side	\$3	5	\$99,000
College	North	Main	Mid-Term	1700	\$3	5	\$51,000
Oakley	Elm	Border	Mid-Term	1650	\$3	5	\$49,500
Lacy Holt	Monroe Holt	Rogers	Mid-Term	7100	\$3	5	\$213,000
Weaver Way	Town Branch	Doggett	Mid-Term	500	\$3	5	\$15,000
Cooper	Cheeks	State Road 54	Mid-Term	2890	\$3	5	\$86,700
Banks	Wilson	McBride	Mid-Term	3550	\$3	5	\$106,500
Washington	Providence	River	Mid-Term	1000	\$3	5	\$30,000
Hill	Pomeroy	Melville	Mid-Term	900	\$3	5	\$27,000
Noah	Woody	Lancelot	Long-Term	4450	\$3	5	\$133,500
Providence	Washington	Main	Long-Term	450	\$3	5	\$13,500
Pomeroy	Travora	Parker	Long-Term	400	\$3	5	\$12,000
Home	Ward	Elm	Long-Term	1400	\$3	5	\$42,000
lvey	Gilbreath	State Road 54	Long-Term	1750	\$3	5	\$52,500
Monroe Holt	Lacy Holt	Hanford	Long-Term	5300	\$3	5	\$159,000
Border	Oakley	Sideview	Long-Term	1150	\$3	5	\$34,500
Cheeks	Nicks/Hortense	Cooper	Long-Term	6800	\$3	5	\$204,000
Woody	State Road 54	Noah	Long-Term	1800	\$3	5	\$54,000
Denny	Gilbreath	Ward	Long-Term	700	\$3	5	\$21,000
Hortense	Main	Nicks/Cheeks	Long-Term	250	\$3	5	\$7,500
Auto Park/Hanford	Monroe Holt	Main	Long-Term	5250	\$3	5	\$157,500
Hanford	Old Coach	Monroe Holt	Long-Term	3000	\$3	5	\$90,000
Raspberry	State Road 54	Cul-de-sac	Long-Term	1150 (one side)	\$3	5	\$17,250

Greenways	Priority	Distance (miles)	Cost per mile	Minimum Width (ft)	Estimated cost
Haw River Greenway (Mountains to Sea Trail)	1	4.2	\$350,000	10	\$1,470,000
Bill Cooke Park Perimeter Trail	2	0.7	\$350,000	10	\$245,000
N. Graham Elem Graham High School - Bill Cooke Park Connector	3	0.25	\$350,000	10	\$87,500
Little Alamance Creek Greenway	4	3.6	\$350,000	10	\$1,260,000
Main St. to Ray St. Corridor	5	0.35	\$350,000	10	\$122,500
Big Alamance Creek Greenway	6	5.3	\$350,000	10	\$1,855,000

^{*} Methods in which funding and payment occurs may vary based on whether the road is State or local.

^{**} If an opportunity arises to develop sidewalk as part of a road construction project or piggybacked into another project, a sidewalk should be constructed regardless of its phasing. This will be more cost-efficient.

^{***} Only an estimate; this can vary based on many factors