

MEMORANDUM(DRAFT)



TO: WALKABLE NOVI COMMITTEE
FROM: SRI KOMARAGIRI, PLANNER
SUBJECT: NON-MOTORIZED MASTER PLAN: FIVE YEAR IMPLEMENTATION STATUS
DATE: SEPTEMBER 15, 2016

On February 28, 2011, the Novi City Council adopted the *City of Novi Non-Motorized Master Plan 2011*. This Plan presented a set of goals and implementation strategies that when substantially implemented will result in a physical and cultural environment that will support and encourage safe, convenient and comfortable ways to walk and bicycle throughout the community. Since the Plan was adopted five years ago, the City has implemented a substantial portion of the infrastructure, policy, public outreach and education goals and implementation strategies.

The implementation of the strategies has been the result of many efforts throughout the City's organization. Among those providing input and guidance have included City Administration, Department of Public Services, Parks, Recreation and Cultural Services, Community Development, Neighborhood and Business Relations, and the Police Department, as well as citizen members of boards and commissions, especially as represented through the Walkable Novi Committee.

The following outline summarizes the general categories of implementation strategies recommended in the *2011 Non-Motorized Plan*. That is followed by a table that lists each implementation strategy along with an update on its progress and any additional comments.

1. Infrastructure

- a. Initial Investments
 - i. Complete Sidewalk Gaps
 - ii. Safety Concerns
 - iii. Critical Links
- b. Four Parallel Tasks
 - i. Major Corridor Development
 - ii. Neighborhood Connectors
 - iii. Sidewalk Gaps
 - iv. Construction Integration

2. Policy Recommendations

- a. Complete Streets
- b. ADA Compliance
- c. Safe Routes to Schools
- d. Bicycle Parking
- e. Maintenance of Non-motorized Facilities
- f. Sidewalk/Roadside Pathway Completion

3. Site Plan Review

4. Public Outreach and Education

- a. Establish the Program
- b. Build a Culture of Biking and Walking

Texts in **Blue** are updates from 2016.

Non-Motorized Master Plan 2015-16: Five Year Implementation Status		
Implementation Strategy	Progress	Comments
1. Infrastructure		
a. Initial Investments (Segments that ranked in Top 20 in 2015-16 Annual Non-Motorized prioritization update) <i>Should we include 2016-17 prioritization update now that we have the list ready?</i>		
i. Complete Sidewalk Gaps		
CIP budgeted years are updated based on 2016-21 CIP Budget Report		
Sidewalk north of Nine Mile from Plaisance to Taft , 650 ft. (Segment 93B)	18-19, 19-20 & 20-21 CIP	Ranked 9 on Prioritization worksheet
Sidewalk north of Nine Mile from Novi Rd. to Plaisance, 2,650 ft. (Segment 93A)	18-19, 19-20 & 20-21 CIP	Ranked 15 on Prioritization worksheet
Pathway south of Ten Mile from Willowbrook to Haggerty, 2,750 ft. (Segment 81B)	19-20, 20-21 & 21-22 CIP	Ranked 1 on Prioritization worksheet
Pathway south of Ten Mile from Meadowbrook to Willowbrook, 2,530 ft. (Segment 81A)	19-20, 20-21 & 21-22 CIP	Ranked 2 on Prioritization worksheet
Sidewalk north of Ten Mile from Eaton Center to Churchill Crossing, 400 ft. (Segment 62)	18-19 CIP	Ranked 7 on Prioritization worksheet
Pathway south of Ten Mile from Novi Rd. to Chipmunk, 2,400 ft. (Segment 90)	19-20 CIP	Ranked 11 on Prioritization worksheet
Pathway south of Ten Mile from Wixom to 400' E of Lynwood, 2,900 ft. (Segment 99A)	19-20 CIP	Ranked 17 on Prioritization worksheet
Pathway south of Ten Mile from 400' E of Lynwood to Beck, 1,100 ft. (Segment 99B)	19-20 CIP	Ranked 23 on Prioritization worksheet
Sidewalk south of Fourteen Mile from Beachwalk Apartment to East Lake, 600 ft. (Segment 5)	16-17 CIP	Ranked 20 on Prioritization worksheet
Sidewalk south of Pontiac Trail from Wedgewood to West Park, 2,560 ft. (Segment 9B)	17-18 & 18-9 CIP	Ranked 3 on Prioritization worksheet
Sidewalk south of Pontiac Trail from Beck to Wedgewood, 2,440 ft. (Segment 9A)	17-18 & 18-9 CIP	Ranked 6 on Prioritization worksheet
Sidewalk east of Meadowbrook from Eight Mile to N of Llewelyn , 1,200 ft. (Segment 119c)	19-20, 20-21 & 21-22 CIP	Ranked 11 on Prioritization worksheet

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Sidewalk east of Meadowbrook from Nine Mile to Chattman, 2,050 ft. (Segment 84B)	19-20, 20-21 & 21-22 CIP	Ranked 13 on Prioritization worksheet
Sidewalk east of Meadowbrook from Singh Blvd to N of Llewelyn , 1,300 ft. (Segment 119B)	19-20, 20-21 & 21-22 CIP	Ranked 14 on Prioritization worksheet
Pathway west of Meadowbrook from Eleven Mile to Gateway Village, 900 ft. (Segment 70)	19-20 CIP	Ranked 16 on Prioritization worksheet
Sidewalk east of Meadowbrook from Nine Mile to Singh Blvd, 1,300 ft. (Segment 119A)	19-20, 20-21 & 21-22 CIP	Ranked 21 on Prioritization worksheet
Sidewalk east of Meadowbrook from Ten Mile to Chattman, 2,350 ft. (Segment 84A)	19-20, 20-21 & 21-22 CIP	Ranked 22 on Prioritization worksheet
Sidewalk west of Haggerty from Eight Mile to N of Orchard Hill, 1,390 ft. (Segment 120A)	19-20 CIP	Ranked 5 on Prioritization worksheet
Sidewalk west of Haggerty from Orchard Hill to High Pointe, 375 ft. (Segment 120B)	20-21 CIP	Ranked 24 on Prioritization worksheet
Pathway west of Beck from Eleven Mile to Providence, 1,100 ft. (Segment 39)	18-19 CIP	Ranked 8 on Prioritization worksheet
ii. Safety Concerns (Road Crossing Improvements)		
1. The half-signals along the boulevard portion of 12 Mile, west of Novi Rd.	Ongoing	At Cabaret & Donelson Drives
2. The intersection of Haggerty & Village Wood	Completed 2013	
3. South side of Pontiac Trail at Geisler Middle School		
4. Convert bike lanes on South Lake Dr. to pedestrian use & install Shared-use arrows on the street		
iii. Critical Links (Short Connecting Pathways)		
1. Link through Hickory Woods Elementary between Novi Rd. & East Lake Dr. (NC-1)	Completed 2016	
2. Link connecting the neighborhood to the north through Brookfarm Park to Village Oaks Elementary (NC-2)	Completed 2012	
3. Link through park near Meadowbrook & Malott Dr. connecting the neighborhoods (NC-3)	Unlikely	Conservation easements on Orchard Hills West limit ability to construct

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4. Link connecting neighborhoods west of Meadowbrook between 10 Mile & Grand River (NC-4)	2019-20 CIP	
b. Parallel Tasks		
i. Major Corridor Development		
1. Metro Connector		
a) Extend I-275 Metro Trail south (using 10' wide asphalt) to Bridge Street & provide crossing island on Meadowbrook	Ongoing	<p>Phase 1: Construct 2014</p> <ul style="list-style-type: none"> 10 ft. pathway along Meadowbrook from I-275 trail to 12 Mile, including improved pedestrian crossings at 12 Mile & Meadowbrook <p>2016-17 CIP</p> <ul style="list-style-type: none"> Paved shoulders along Meadowbrook from I-96 to 12 Mile <p>▪ Phase 2: Design 2017-18 CIP, Construct 2018-19 CIP 10 ft. pathway along Meadowbrook from 12 to 13 Mile & 13 Mile from Meadowbrook to M-5</p> <p>Under Construction</p> <ul style="list-style-type: none"> Wayfinding signs are proposed from I-275 metro trail to M-5 Metro Trail via Metro Connector phase 1 & 2 (both north and south bound)
b) Construct 10' wide asphalt path along the west side of Meadowbrook between 11 Mile & 13 Mile		
c) Construct 10' wide asphalt path along the north side of 13 Mile between Meadowbrook & the M-5 Metro Trail		
d) Narrow the travel lanes to 11', pave 5-6' shoulder & stripe for bike lanes on Meadowbrook between 11 & 12 Mile		
e) Add temporary shared lane markings & share the road signs to Meadowbrook between 12 Mile & 13 Mile until road is reconstructed & bike lanes are added		
f) Improve pedestrian crossing at 12 Mile & Meadowbrook		
g) Provide wayfinding signage to direct users from M-5 Trail to I-275 Trail		
2. Taft Corridor		
a) Complete Sidewalk & Pathway Gaps along Taft	Ongoing	<p>2013</p> <ul style="list-style-type: none"> West side of Taft between Grand River & 11 Mile (Segment 36) <p>2014</p> <p>East side of Taft Rd from Ten Mile to Eleven Mile .</p>
b) Add bike lanes along Taft by paving 5-6' wide shoulders & striping/signing		<ul style="list-style-type: none"> Bike lanes along Taft, from 8 mile to 9 mile (2017-18 CIP) Bike lanes along Taft, from 10 mile to Grand River Avenue (2019-20 CIP)
c) Improve the Galway Dr. intersection with a Subdivision Intersection Design		

Non-Motorized Master Plan 2015-16: Five Year Implementation Status		
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d) Improve the Princeton/Byrne intersection with a Mid-Block Crossing and Rectangular Rapid Flash Beacon		
e) Improve the Dunbarton Dr. intersection with a Subdivision Intersection Design		
f) Improve the White Pine Dr. intersection with a Subdivision Compact Roundabout	Completed 2015	
g) Improve the Addington Ln. intersection with a Subdivision T-Intersection Design		
h) Improve the Novi High School Entrances with a Subdivision T-Intersection Design		
i) Improve the Emerald Forest Blvd intersection with a Subdivision T-Intersection Design		
j) Improve the Jacob Dr. intersection with a Subdivision T-Intersection Design	2015-16 CIP	Mid-block crossing
k) Construct 10' wide asphalt trail along Taft north of Grand River		
l) Construct 10' wide asphalt trail along south side of I-96 corridor, utilize the existing CSX underpass to get under I-96, cross over the CSX railroad & continue the trail along the north side of I-96 along the ITC property connecting to Fountain Walk Dr. Crossing I-96 at the Railroad tunnel, may present some challenges, if so evaluate providing a separate non-motorized crossing at Taft & I-96	Ongoing	Completed Study 2012 <ul style="list-style-type: none"> ▪ OHM I-96 Pedestrian Study concluded that the CSX crossing not feasible, recommended crossing on west side of Novi Rd. 2019-20 CIP <ul style="list-style-type: none"> ▪ Non-motorized bridge over I-96 at Taft Road
m) Extend sidewalk south along Cabaret Dr. to connect into proposed trail		
n) Provide on-street bike route on Cabaret Dr. & Dixon Rd.		
o) Include a Pedestrian Hybrid Beacon (HAWK) at 12 Mile /Cabaret Dr. Intersection		
p) Construct 10' wide asphalt trail through Lakeshore Park to connect to Lakeshore Dr. (remain on high ground & avoid existing mountain		

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bike trails as much as possible)		
q) Include wayfinding signage along route to direct users: Cabaret & Dixon		
3. 9 ½ Mile Neighborhood Greenway		
a) Improve road crossing where the proposed route crosses Novi Rd. with a Compact Roundabout		
b) Improve road crossing where the proposed route crosses Meadowbrook with a Crossing Island		
c) Improve road crossing where the proposed route crosses Taft with a Compact Roundabout		
d) Improve road crossing where the proposed route crosses Beck with a Subdivision T-Intersection Design	Completed 2015	Beck mid-block pedestrian crossing between Cheltenham & White Pines.
e) Provide crossing of railroad near Novi Ice Arena, if unattainable, provide alternate route on 10 Mile by completing sidewalk gaps & providing at-grade railroad crossing		
f) Obtain easements & build short 10' wide asphalt connector pathways		
g) Provide traffic calming techniques on local neighborhood streets: Algonquin, Cheltenham, High Meadow, Jonathan, Little Falls, Village Wood, White Pines	Completed 2015	Calming islands and mini-roundabout along White Pines.
h) Construct the south extension ITC Corridor Trail connecting 9 ½ Mile Neighborhood Greenway South to ITC Park & Maybury State Park	Ongoing	2013 <ul style="list-style-type: none"> ▪ RCOC completed 8 Mile Mid-block crossing at Maybury State Park <b style="color: blue;">Phase 1A: Completed 2016 <ul style="list-style-type: none"> ▪ Southern 1.5 miles of 10 ft. pathway ▪ Community Sports Park Pathway Resurfacing <b style="color: blue;">Community Sports Park Trail: 2019-20 CIP <ul style="list-style-type: none"> ▪ Community Sports Park Trail: 3,709 ft. trail in park <b style="color: blue;">Phase 1B: 2019-20CIP <ul style="list-style-type: none"> ▪ 4.5 miles of 10 ft. pathway from 9 Mile to Fire Station 4.

Non-Motorized Master Plan 2015-16: Five Year Implementation Status		
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i) Include wayfinding signage along route to direct users		
4. Meadowbrook South of I-96		
a) Complete Sidewalk & Pathway Gaps along Meadowbrook south of I-96	Ongoing	Completed 2014 <ul style="list-style-type: none"> ▪ East side of Meadowbrook between I-96 bridge & Grand River (Segment 73 & 24) 2019-20 CIP <ul style="list-style-type: none"> ▪ West side of Meadowbrook between 11 Mile & Gateway Village (Segment 70) ▪ East side of Meadowbrook between 8 Mile & 9 Mile (Segment 119) 2019-20, 20-21 & 21-22 CIP
b) Add bike lanes along Meadowbrook by paving 5-6' wide shoulders & striping/signing		2016-17 CIP Bike Lanes along Meadowbrook from I-96 to Twelve Mile Road
c) Improve the Chattman Dr. intersection with a Subdivision T-Intersection Design		
d) Install Midblock Crossing Island between Marks Drive/Fawn Trail		
e) Implement neighborhood connector route and include wayfinding signage along route to direct users		
5. I-96 Corridor		
a) Build trail along north side of I-96 utilizing MDOT & ITC property		
b) Provide trail crossing at Novi Rd. by improving existing intersection		
c) Work with the adjacent landowners to provide access from the trail to the shopping centers		
d) Provide trail crossing on Meadowbrook when sidewalk gaps along the west side of the road are complete		
11 Mile/Beck/Providence Park Hospital/ Wild Woods Park		
a) Complete Sidewalk & Pathway Gaps along 11 Mile	Ongoing	2019-20 CIP <ul style="list-style-type: none"> ▪ Non-motorized improvements along 11 Mile between Taft & Beck 2019-20 CIP <ul style="list-style-type: none"> ▪ Non-motorized improvements along

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Implementation Strategy	Progress	Comments
		11 Mile between Beck & Wixom
b) Provide Mid-block Crossings on 11 Mile where proposed neighborhood connector route intersects with 11 Mile		
c) Add Shared-use arrows on 11 Mile Road in the near-term until the shoulders are paved and bike lanes can be included		
d) Complete Sidewalk & Pathway Gaps along Beck	Ongoing	<p>2021-22 CIP</p> <ul style="list-style-type: none"> West side of Beck between Kirkway Place & 11 Mile (<i>Segment 53</i>) <p>2018-19</p> <ul style="list-style-type: none"> West side of Beck between Providence & 11 Mile (<i>Segment 39</i>) <p>2017-18 CIP</p> <p>Pathways and bike lanes along Beck between Eight Mile and Nine Mile</p>
e) Provide Mid-block Crossings along Beck		
f) Obtain easements from Providence Park Hospital to construct pathway between Wixom & Beck Rds.	Ongoing	<p>Phase 3A: Completed 2013</p> <ul style="list-style-type: none"> Completed at part of Medlodge development <p>Phase 3B: Construct, On hold</p> <ul style="list-style-type: none"> City is working with Providence Hospital to construct the pathway as part of a proposed development, <p>Wildlife Woods Trail: 2017-18 CIP</p> <ul style="list-style-type: none"> 10 ft. pathway to connect park to Phase 3A & B
6. Wixom Rd./Undeveloped Park		
a) Complete Sidewalk & Pathway Gaps along Wixom Rd.	Ongoing	<p>2013</p> <ul style="list-style-type: none"> East side of Wixom between Drakes Bay & 10 Mile as part of Island Lake development (<i>Segment 50</i>)
b) Provide Mid-block Crossings along Wixom Rd.	Completed 2014	Mid-block crossing as part of new traffic signal at Deerfield Elementary (<i>Segment 133</i>)
Beck/West 12 Mile/West Park Dr./Off-road Trail		
a) Complete Sidewalk & Pathway Gaps on west side of Beck		
b) Add sidewalks to both sides of Beck/I-96 overpass		

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Implementation Strategy	Progress	Comments
c) Improve road crossing at Beck & 12 Mile		
d) Complete Sidewalk & Pathway Gaps along north side of 12 Mile	Ongoing	2013 <ul style="list-style-type: none"> ▪ North side of 12 Mile between Cabot & M-5 as part of Starbucks development (<i>Segment 19</i>)
8. Beck/West 12 Mile/West Park Dr./Off-road Trail (<i>continued</i>)		
e) Improve road crossing at West Park Dr. & West Rd.		
f) Build 10' shared use path along city owned property north of West Rd.		
g) Provide bike route along Portside Dr. to connect to Pontiac Trail		
7. Lakeshore Park/13 Mile		
a) Add 10' shared use path through north side of Lakeshore Park paralleling South Lake Rd.		
b) Complete Sidewalk & Pathway Gaps along 13 Mile	<i>Completed 2014</i>	South side of 13 Mile between Sunshine & Holmes (<i>Segment 16</i>)
c) Add Bike Lanes to 13 Mile through road conversions & paving the shoulders	<i>2017-18 CIP 2018-19 CIP</i>	Bike lanes along 13 Mile between Novi Rd. & Meadowbrook
8. ITC Corridor – North Extension		
a) Obtain easement & construct off-road trail along ITC corridor	Ongoing	Phase 3A: Medilodge Connector Completed 2017-18: ITC CSP Trail running from Eight Mile at southeast corner of ITC Community Sports Park north to northeast corner of ITC CSP.
b) Obtain easement to construct off-road trail along the west edge of Providence Park Hospital where ITC property stops		Pending funding: Phase 1B running from Nine Mile and Garfield Roads north to 10 Mile and Wixom Roads. Pending easement: Phase 3B continuing along St. John Providence Park Hospital's southern border from Medilodge Connector to Beck Road.
c) Improve road crossing on Grand River		
d) Work with Wixom to continue trail extension northwest through the Beck/I-96 Interchange to Lyon Oaks Park		

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Implementation Strategy	Progress	Comments
ii. Neighborhood Connectors (UPDATE: In 2013 City Council adopted a policy to limit guide signs to arterial roads only, thereby limiting implementation of wayfinding & signage along local/neighborhood streets as recommended in the plan)		
1. Near-term Neighborhood Connectors As depicted on the map on portions of the following streets: 11 Mile, Addington, Bethany, Brenda, Cavendish, Center, Cherry Hill, Christina, Cider Mill, Clark, Clermont, Congress, Emerald Forest, Flint, Galway, Heatherbrae, Hickory Grove, Jaslyn, Joseph, Kerri, Main, Marks, Meridian, Moorsgate, Potomac, Ripple Creek, Riverview, Scarborough, Seeley, Simmons, Sullivan, Sussex, Thatcher, & Westmont		
a) Build short connector pathways through existing ROW & city owned property b) Provide wayfinding & signage along near-term routes c) Implement traffic calming elements along near-term routes d) Implement road crossing improvements where near-term neighborhood connector routes cross a major road	Ongoing	2013 Signs installed at Taft & 10 Mile, Taft & Emerald Forest, & Beck & Cider Mill
2. Mid-term Neighborhood Connectors As depicted on the map on portions of the following streets: 11 Mile, Antler, Arcadia, Balcombe, Bristol Circle, Brownstone, Center, Charlemagne, Chase, Drakes Bay, Ennishore, Garfield, Hampton Hill, Hemingway, Independence, Island Lake, Market, Midway, Montmorency, Plateau, Quince, Reindeer, Ridge, Silvery, Steinbeck Glen, Tamara, Town Center, Twelve Oaks, Waverly & Wolf		
a) Build short connector pathways through existing ROW & city owned property b) Obtain easements to build short connector pathways through private owned property c) Provide wayfinding & signage along mid-term routes d) Implement traffic calming elements along mid-term routes e) Implement road crossing improvements where mid-term neighborhood connector routes cross a major road	Ongoing	
3. Long-term Neighborhood Connectors As depicted on the map on portions of the following streets: 12 Mile, 12 1/2 Mile, Albert, Amy, Applebrooke, Brompton, Cider Mill, Collingdale, Deer Run, Delmont, Galway, Hillside, Independence, Kingsley, Kingswood, Knightsbridge, Ladene, Laurel, Mondavi, Nantucket, Orchard Hill, Roberts, Rochester, Sandpiper, Sandstone, Savoie, Sleepy Hollow, Sunday, Terra Del Mar, Torino, Whispering, Woodworth		

Non-Motorized Master Plan 2015-16: Five Year Implementation Status		
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a) Obtain easements to build short connector pathways through private owned property b) Provide wayfinding & signage along long-term routes c) Implement traffic calming elements along long-term routes d) Implement road crossing improvements where long-term neighborhood connector routes cross a major road e) If there is enough demand consider paving the pathways through Rotary Park f) Build unpaved pathway along ITC corridor if allowable and eventually if there is demand consider paving the trail	Ongoing	
iii. Sidewalk Gaps		
1. Sidewalk gaps not addressed by previous recommendations should be put into the Sidewalk & Pathway Prioritization Analysis & Process to determine when they should be implemented. <u>This section includes Sidewalks and pathways gaps that were completed or under construction in the current year of implementation update. Some of these gaps are not part of the top 20 list, that have been completed by developers or part of road rehabilitation projects.</u>	Annually, Walkable Novi Committee conducts Non-Motorized Prioritization	<p>CITY DEVELOPMENTS Completed 2015</p> <ul style="list-style-type: none"> ▪ Pathway north of Eight Mile from Garfield and Beck (Segment 109) ▪ Pathway north of Eleven Mile from Pinnacle to Town Center (Segment 27) ▪ Pathway east of Novi from Ten Mile to Ice Arena (Segment 89) ▪ Pathway north of Grand River from Seeley to Haggerty (Segment 76) ▪ Sidewalk south of Eleven Mile from Town Center to Meadowbrook (Segment 69) <p>PRIVATE DEVELOPMENTS Completed 2015</p> <ul style="list-style-type: none"> ▪ Pathway west of Wixom from Catholic Central to Island Lake (Segment 18) ▪ Sidewalk south of Twelve Mile from City limits to Heifer drive in Wixom (Segment part 45)

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		<ul style="list-style-type: none"> ▪ Sidewalk north of Twelve Mile from Meadowbrook to Cabot (Segment part 19) ▪ Pathway west of Meadowbrook from Twelve Mile to Bridge (Segment part 30)
iv. Construction Integration		
1. Add bike lanes along arterial & collector roads that were not addressed in the previous tasks, many of the roads have potential to add a paved shoulder to obtain bike lanes, however, due to the fluctuation in the number of lanes at intersections & curbs that occur in numerous places along the roadway a simple paving of the shoulder may not be as simple as it seems & it may be more feasible to wait until the road is reconstructed to pave the shoulders & add bike lanes	Ongoing	<p>2013</p> <ul style="list-style-type: none"> ▪ Bike lanes along 8 Mile between Beck & Napier <p>2014</p> <ul style="list-style-type: none"> ▪ Bike lanes integrated with the Town Center Drive Reconstruction between Grand River and 11 Mile. <p>2016-17 CIP</p> <ul style="list-style-type: none"> ▪ Bike lanes along Beck between 8 & 9 Mile
2. Meadowbrook between 10 Mile & 8 Mile may be the best candidate to attempt a near-term bike lane conversion by paving the shoulder & narrowing the traffic lanes & improving the subdivision entrances similar to Taft		
3. Novi Rd. between 13 Mile & 14 Mile may be a candidate for a near-term bike lane by converting it to a 3 lane road with a median where there are no turning movements		
4. Add sidewalks & bike lanes to Novi Rd./I-96 interchange	<i>Design 2018-19 CIP Construct 2019-20 CIP</i>	Sidewalk along west side from Crescent Blvd to West Oaks (I-96 crossing at Novi)
5. Add bike lanes to Beck/I-96 interchange		
6. If CSX railroad becomes abandoned there may be potential to build a rail-trail along corridor		

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<p>Construction Integration not specifically recommended in the Plan, but that improves the non-motorized environment in the City</p>	Ongoing	<p>2011</p> <ul style="list-style-type: none"> ▪ Crossing improvements at Old Novi & South Lake <p>2012</p> <ul style="list-style-type: none"> ▪ 4 ft. paved shoulders along both sides of Beck between 9 Mile & Cheltenham ▪ Several missing sections of sidewalk in the Autumn Park Subdivision near the Thornton Basin ▪ Sidewalk on the south side of West Oaks from Donelson to parking lot ▪ Mid-block crossing at 9 Mile & Sunrise <p>Completed 2014</p> <ul style="list-style-type: none"> ▪ Sidewalk on Willowbrook bridge <p>2016-17 CIP (2015-16 CIP)</p> <ul style="list-style-type: none"> ▪ Construct sidewalk gaps along Karim Blvd. Under Construction <p>2018-19 CIP</p> <ul style="list-style-type: none"> ▪ Improved pedestrian connections as part of 9 Mile & Beck signal modernization <p>2019-20 CIP</p> <ul style="list-style-type: none"> ▪ Improved pedestrian connections as part of 13 Mile & Novi Rd. signal modernization
	Ongoing	<p>2016 -17 CIP</p> <ul style="list-style-type: none"> ▪ Bike lanes along Meadowbrook from I-96 to Twelve Mile with Meadowbrook reconstruction (112-02) ▪ Bike lanes along Beck from Eight Mile to Nine Mile with Beck Road reconstruction (132-01) <p>2017-18 CIP</p> <ul style="list-style-type: none"> ▪ Bike lanes along Taft from Eight mile to Nine Mile with Taft Road Rehabilitation (102-05) <p>2018-19 CIP</p> <ul style="list-style-type: none"> ▪ Bike lanes along Thirteen Mile from Novi to Meadowbrook along with Thirteen Mile Road Rehabilitation <p>2019-20 CIP</p> <ul style="list-style-type: none"> ▪ Bike lanes along Taft from Ten Mile

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		to Grand River along with Taft Road Rehabilitation (121-001) <ul style="list-style-type: none"> ▪ Improved pedestrian connections as part of 11 Mile & Wixom Rd. roundabout ▪ Possible sidewalk integration along Eleven Mile from Taft to Beck (082-30) ▪ Possible sidewalk integration along Eleven Mile from Beck to Wixom (132-26) 2021-22 CIP <ul style="list-style-type: none"> ▪ Complete missing sidewalk segments along Twelve Mile from Andelina Ridge to City Limits (152-10)
2. Policy Recommendations		
a. Complete Streets		
1. Adopt the Non-motorized Transportation Plan	Completed 2011	Staff is currently planning on an update to the approved Non-motorized Transportation Plan
2. Draft a Complete Streets Policy that address the 10 key elements as defined by the National Complete Streets Coalition & that clearly defines the responsible authorities	Completed 2010	
3. Adopt a Complete Streets Policy	Completed 2010	
4. Develop 5-year non-motorized improvement plan (based on the Non-Motorized Master Plan)	Completed 2010	As part of the CIP, the City developed a 6- year non-motorized improvement plan based on the Non-Motorized Master Plan
5. Meet with MDOT & RCOC to review 5-year plan as it relates to facilities under their jurisdiction	Ongoing	DPS meets with RCOC every two years DPS meets with MDOT as needed
6. Implement recommended operations procedures	Underway	Engineering Division is working on ordinance amendments & revising the City's engineering design standards to implement the Non-Motorized Master Plan & Complete Streets policy recommendations
7. Establish performance measures		
8. Begin data collection		
9. Build a reference library of current best practices		

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10. Establish professional staff training program		
11. Identify City standard plans & details that need to be revised	Completed 2014	City Zoning Ordinance was amended to include a section Bicycle Parking Facility Requirements in Article 5 Site Standards
12. Begin revising standard plans & details		
13. Complete update of standard plans & details	Ongoing	
14. Evaluate progress		
b. ADA Compliance		
1. Establish an interim transition complaint based transition plan	Completed 2014	<p>2011 City Council adopted a ADA Transition Plan (for pathways and ramps in the road ROW along all roads throughout the City)prepared by the City’s Consulting Engineer, Giffels-Webster</p> <p>2014 City Council adopted a ADA Transition Plan (for pathways and ramps at City-owned facilities such as buildings, parks, parking lots, etc) prepared by Spalding Dedecker Associates, Inc.</p>
2. Designate an ADA coordinator	Completed 2011 Updated 2016	The DPS has designated Adam Wayne as the ADA coordinator since 2015
3. Have an inventory based transition plan in place	Completed 2011	As part of the ADA Transition Plan, Giffels-Webster inventoried curb ramp conditions throughout the City
4. Integrate the transition plan into the capital improvement plan	Annually	ADA improvements are included as a budget item in the CIP
5. Complete the inventory of physical barriers	Completed 2011	As part of the ADA Transition Plan, Giffels-Webster inventoried curb ramp conditions throughout the City
6. Have made substantial progress in removing barriers in the most highly traveled corridors	Ongoing	<p>2011</p> <ul style="list-style-type: none"> ▪ Wixom & Island Lake & entrance to Deerfield Elementary <p>2012</p> <ul style="list-style-type: none"> ▪ 13 Mile & Meadowbrook ▪ Meadowbrook & Brownstone at the

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Implementation Strategy	Progress	Comments
		school <ul style="list-style-type: none"> ▪ Grand River near Seeley ▪ 9 Mile (multiple locations between Meadowbrook & Beck) ▪ Novi Rd. (multiple locations between Crescent & 12 Mile) ▪ Multiple locations including White Pines & Autumn Park (Neighborhood Roads Program) 2013 <ul style="list-style-type: none"> ▪ Novi & Little Falls Blvd ▪ Novi & Citation ▪ Novi Pathway Project (multiple locations between 9 & 10 Mile) ▪ Civic Center ramps in the front & rear lots ▪ Novi , Old Novi & Sandstone ▪ Multiple locations in Barclay Estates, Cedar Springs, & Meadowbrook Glens (Neighborhood Roads Program) 2014 <ul style="list-style-type: none"> ▪ Willowbrook Bridge over Ingersol Creek ▪ Brookfarm Park ▪ Eleven Mile/Town Center Drive ▪ Twelve Mile/Meadowbrook ▪ Signal & Ramp Upgrades at Meadowbrook/Eight Mile, Wixom/Glenwood, and 13 Mile/Cabot ▪ Nine Mile/Haggerty ▪ Multiple locations in Haverhill Farms and Autumn Park subdivisions (Neighborhood Roads Program) 2015 <ul style="list-style-type: none"> ▪ Eight Mile Road/Garfield Road ▪ Eleven Mile/Town Center Drive ▪ Multiple locations in Meadowbrook Glens, Chase Farms and along White Pines Drive (Neighborhood Roads Program) 2016

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		<ul style="list-style-type: none"> ▪ Grand River/Beck Road ▪ Karim Blvd/Ten Mile Road ▪ Karim Blvd/Grand River ▪ Police Department Entrance (Ten Mile) ▪ Multiple locations in Dunbarton Pines ▪ Multiple locations in Meadowbrook Glens ▪ Multiple locations along Nine Mile Road from Meadowbrook Road to Novi Road ▪ Multiple locations along Novi Road from 12 Mile Road to 13 Mile Road
c. Safe Routes to Schools		
<ol style="list-style-type: none"> 1. Develop maintenance standards as well as fix defects & gaps in public sidewalk system adjoining school sites 2. Consider the safest routes to school for children when adjusting school boundaries 3. Develop a cost-share policy for the construction & maintenance on pathways that are part of the City's Non-motorized System & traverse school property 4. Develop a strategic implementation plan for pathways & trails that are part of the City's Non-motorized System that traverse school property 5. Continue to enhance a system of accountability for responding to & correcting safety concerns along routes to school & other problems identified through these programs 6. Continue to promote & initiate with the school system & parents Walk-to-School Day events, "walking school bus" programs, "Safe Routes to School" programs, & walkability audits in conjunction with the state-wide program 7. Perform formal evaluations of how pedestrians & bicyclists are 	Ongoing	<ul style="list-style-type: none"> ▪ Many of these recommendations fall underneath the jurisdiction of the various school districts, however the City has contacted them & will continue to identify key people at the local school districts to discuss working with them on SR2S programs ▪ The City's Traffic Safety Committee continues to work with local school districts on school safety issues

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accommodated to all school grounds & prepare action plans to address deficiencies		
8. Encourage walking & bicycling to school as a part of the physical education & well-being of the students		
9. Try to eliminate the need for all "Safety Busing" by remedying the hazards that currently warrant the safety busing		
10. Evaluate all individual school & district wide policies regarding bicycling to school & amend policies that discourage bicycling		
11. Encourage residential infill projects within walking distance of schools		
d. Bicycle Parking		
1. Update the City code to include bicycle parking requirements & design standards	Completed 2013	City Zoning Ordinance was amended to include a section Bicycle Parking Facility Requirements in Article 5 Site Standards
2. Implement the bicycle parking requirements & design standards	Completed 2013	City Code of Ordinance was amended with Article XI Off-Road Non-Motorized Facilities which establishes the requirements for the design and construction of off-road non-motorized facilities.
e. Maintenance of Non-motorized Facilities		
1. Develop a multi-year maintenance schedule as part of the annual striping program for updating signs & refreshing pavement markings on Trails & Bike Routes to maintain high contrast & visibility & help bicyclist & pedestrians navigate	Ongoing	<ul style="list-style-type: none"> ▪ GIS & DPS staff have inventoried sidewalks & initiated a computerized asset management system (City Works) to track installation & maintenance of public sidewalks & pathways ▪ DPS staff have had internal discussions regarding how to implement & fund a set of sidewalk maintenance policies for those non-motorized facilities for which it is responsible
2. Develop a citywide inspection program to identify & cite hazardous		<ul style="list-style-type: none"> ▪ The snow clearing policy is described on the City's website in

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sidewalks		the DPS Field Operations Division, Roads and Drains Section. A map of sidewalks cleared by City contract is a link on the website
3. Develop a comprehensive citywide asset management for entire system that addresses regular inspections, preventative maintenance & ADA issues		
4. Establish a dedicated website form for non-motorized service requests		
5. Develop an educational campaign encouraging property owners to clear curb ramps & bus stops when shoveling their sidewalks		
6. Establish a policy for maintenance & snow removal of crossing islands		
7. Establish a policy to integrate all of the non-motorized facilities that are part of the Network Plan into the current snow removal program	Ongoing	
8. Determine if additional means are necessary to develop a program that provides maintenance contact information, such as stickers or signs to be placed on pedestrian signals		
9. Assess the effectiveness of the efforts of the code compliance staff to enforce the existing snow removal ordinance on privately owned hard surfaced sidewalks & pathways, specifically on local roads & private drives. If necessary, develop a program to assure snow removal from privately owned sidewalks & pathways along Arterials & Collectors	Ongoing	
10. Designate or hire additional staff & assign responsibility for clearing & maintaining crossing islands, shared-use trails & off-road pathways of snow & ice	Ongoing	DPS currently clears school walks and high volume pathways along arterial roadways
11. Develop a program that monitors the condition of sidewalks along Arterials & Collectors on a yearly basis		No program in place at the moment
12. Establish a maintenance hot-line & website for non-motorized issues (this may be integrated with other	Ongoing	2014 City " Ride and Walk Novi " website encourages residents to contact the

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maintenance hot-lines) & place a sticker with this hotline number & website address at locations around town including at all pedestrian activated signals		City Staff for any non-motorized related issues. Contact information for Barbara McBeth, City Planner is provided on the website.	
f. Sidewalk/Roadside Pathway Completion			
1. Establish a committee to update the City code based on the recommendations within this report	Ongoing	DPS and Planning Staff	
2. Establish the process for neighborhoods to complete their sidewalk system		Staff has discussed the possibility of requiring completion of sidewalks in single family home residential developments prior to build-out to provide complete sidewalk networks earlier in the development process	
3. Update the City's Pathway and Sidewalk Prioritization Analysis and Process & track its progress	Annually	Updated Nov 13, 2006 Dec 17, 2007 Oct 7, 2008 Oct 8, 2009	Nov 18, 2010 Nov 17, 2011 Oct 18, 2012 Nov 2013 Oct 23, 2014 Oct 15, 2015
3. Site Plan Review			
a. Update Zoning Ordinance site design regulations to create places that foster safe & efficient non-motorized transportation on site & through convenient connections to the external system	Completed 2013	City Zoning Ordinance was amended to include a section Bicycle Parking Facility Requirements	
b. Develop a site design checklist that ensures non-motorized transportation is adequately addressed during site plan review	Completed 2013 Ongoing	Bicycle Parking review is included as part of the Planning Review Chart. August 2015-Current 65 Bike racks have been approved across the City as part of Site plan approval process. Details are provided to Walkable Novi Committee periodically.	
4. Public Outreach & Education			
a. Establish the Program			
1. City administration should determine the home of the city's biking & walking outreach & education program, P&R may be a natural location should additional resources		Novi's Older Adult Services Office established a Novi Walkers Club to hold organized walks	

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be provided		
2. Establish a Bicycling & Walking Task Force to help shape, produce & guide the outreach & education efforts	Completed 2007	Walkable Novi Committee
3. Establish a brand for the bicycling & walking outreach & education program	Ongoing	
4. Create a Facebook & Twitter presence for the outreach & education effort	Ongoing	Until 2014 <ul style="list-style-type: none"> ▪ As part of City's Facebook & Twitter accounts ▪ A bicycle safety video was added to the City's website 2014 <ul style="list-style-type: none"> ▪ City's Ride and Walk Novi website has been reorganized and updated to include more resources for riding and walking opportunities in Novi
5. Establish partnerships with experienced bicycling & walking organizations such as Michigan Trails & Greenways Alliance, Michigan Mountain Biking Alliance & League of Michigan Bicyclists	Ongoing	<ul style="list-style-type: none"> ▪ The City continues to support & provide services for a variety of mountain bike & trail run competitions at Lakeshore Park ▪ Novi Night Group Rides in partnership with Motor City Mountain Biking Association Annually <ul style="list-style-type: none"> ▪ Keep Rolling in partnership with Performance Bicycle of Novi
6. Apply for grants to fund a part-time coordinator for the outreach & education program & related tools & materials like website development, printed materials & events promotion		
7. Begin tying active transportation messages & information into existing events such as organized runs, mountain bike events at Lakeshore Park, summer athletic leagues, the Farmers Market, & Novipalooza	Ongoing	Multiple: Memorial Day parade, 5K Emergency Run, Family Bike Event (Digital Detox Week)
8. Produce one stand-alone bicycling	Annually	Stated in 2012; Annual Bike Rodeo;

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event		
9. Measure the miles of existing non-motorized facilities in the city	Ongoing	City's GIS Division maps existing & proposed facilities
10. Participate in the National Bicycle & Pedestrian Documentation Project		
b. Build a Culture of Biking & Walking		
1. Establish a biking & walking ambassador program within the Youth Police Academy		
2. Establish third grade bicycling & walking education programs as a prerequisite for riding to school in 4th grade		
3. Deploy crosswalk stings at targeted pedestrian crossings		
4. "Ticket" children who are wearing bicycling helmets		
5. Produce a community bicycle map	Completed 2013	
6. Host Bike to Work Week	Annually	
7. Produce a larger bicycling event		
8. Survey residents' attitudes towards biking & walking efforts		
9. Participate in the National Bicycle & Pedestrian Documentation Project		
10. Apply for the League of American Bicyclists' Bicycle Friendly Community status & the state's Promoting Active Communities award	Completed 2013	Application not accepted. Staff intends to reapply after 2017

- C. Peter Auger, City Manager
 Victor Cardenas, Assistant City Manager
 Charles Boulard, Community Development Director
 Barb McBeth, City Planner
 Rob Hayes, Director of Public Services & City Traffic Engineer
 Theresa Bridges, Engineering Manager
 Jeff Muck, Director of Parks, Recreation and Cultural Services
 Sheryl Walsh, Director of Communications