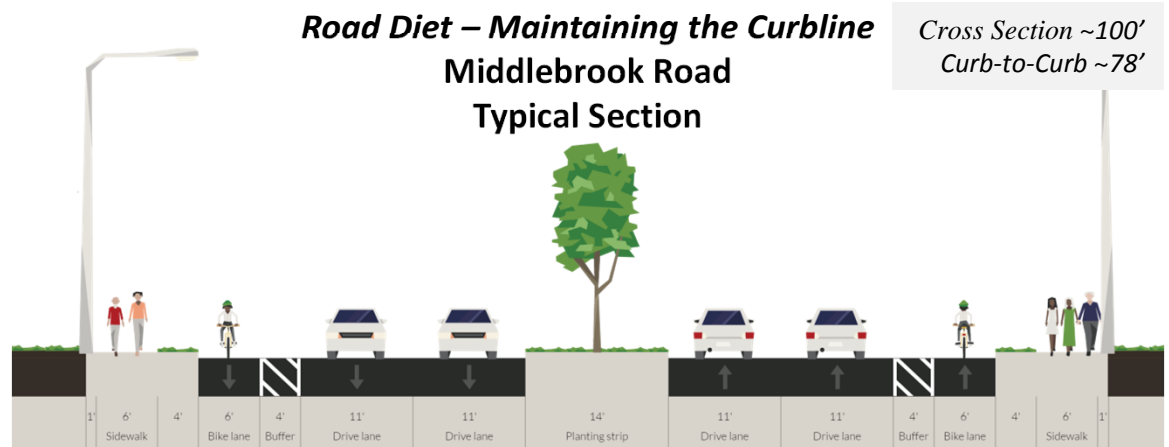
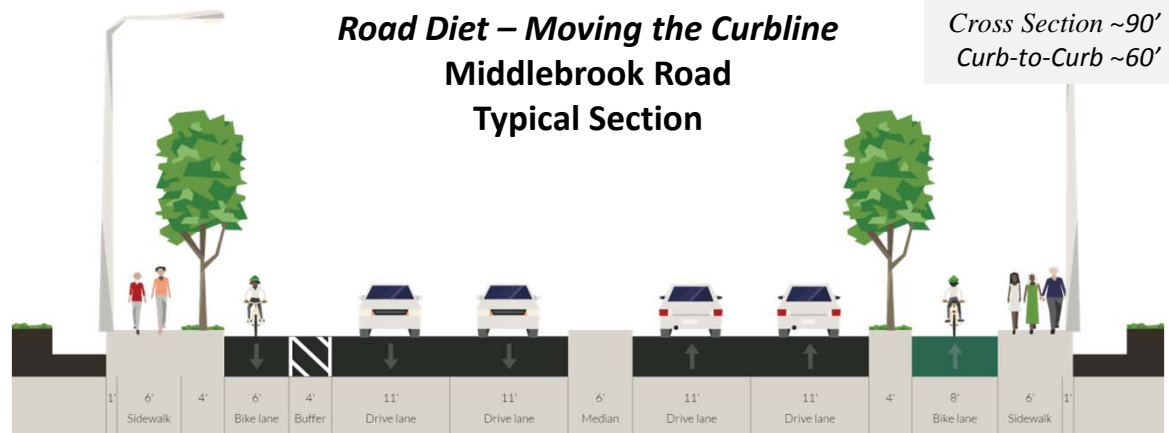


Study Area – Roadways for Road Diet / Lane Narrowing / Reconfiguration



Middlebrook Road – Road Diet



Middlebrook Road – Road Diet with 30% Growth

Middlebrook Road at MD 118 (Germantown Road)		
	AM	PM
Existing		
CLV	865	944
V/C	0.54	0.59
LOS	A	A
Road Diet – Existing		
CLV	1156	1253
V/C	0.72	0.78
LOS	C	C
Road Diet – Future (30% Growth)		
CLV	1503	1629
V/C	0.94	1.02
LOS	E	F*

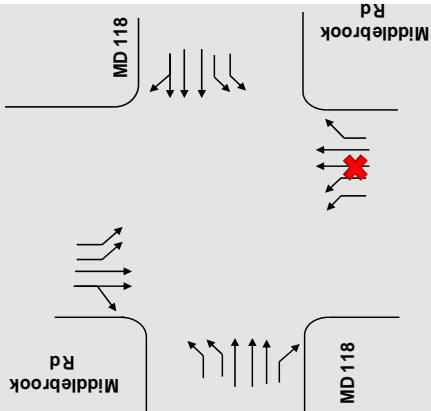
Middlebrook Road at Crystal Rock Drive		
	AM	PM
Existing		
CLV	786	760
V/C	0.49	0.47
LOS	A	A
Road Diet – Existing		
CLV	931	972
V/C	0.58	0.61
LOS	A	A
Road Diet – Future (30% Growth)		
CLV	1210	1263
V/C	0.76	0.79
LOS	C	C

Middlebrook Road at MD 119 (Great Seneca Highway)		
	AM	PM
Existing		
CLV	1052	867
V/C	0.66	0.54
LOS	B	A
Road Diet – Existing		
CLV	1205	962
V/C	0.75	0.60
LOS	C	A
Road Diet – Future (30% Growth)		
CLV	1566	1251
V/C	0.98	0.78
LOS	E	C

*Lane configuration adjustments and/or altering road diet limit may improve LOS

Middlebrook Road – Road Diet with 20% Growth

Middlebrook Road at MD 118 (Germantown Road)



AM PM

Existing

CLV	865	944
V/C	0.54	0.59
LOS	A	A

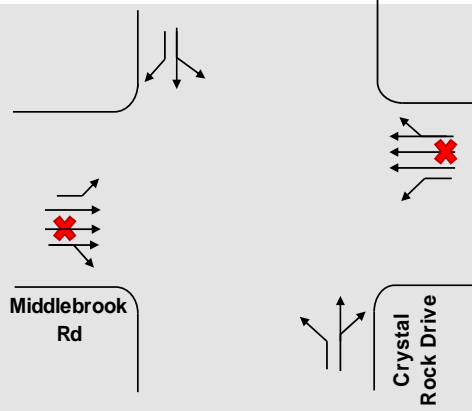
Road Diet – Existing

CLV	1156	1253
V/C	0.72	0.78
LOS	C	C

Road Diet – Future (20% Growth)

CLV	1387	1503
V/C	0.87	0.94
LOS	D	E

Middlebrook Road at Crystal Rock Drive



AM PM

Existing

CLV	786	760
V/C	0.49	0.47
LOS	A	A

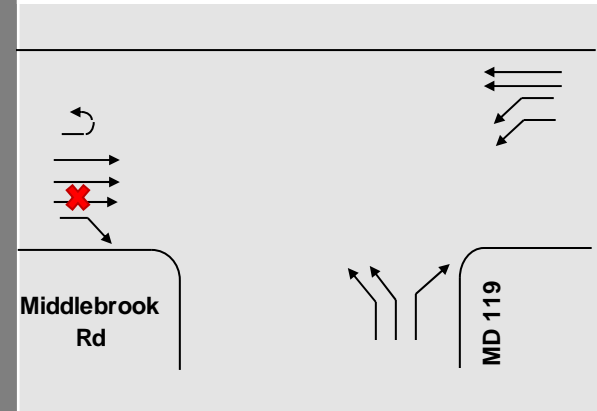
Road Diet – Existing

CLV	931	972
V/C	0.58	0.61
LOS	A	A

Road Diet – Future (20% Growth)

CLV	1117	1166
V/C	0.70	0.73
LOS	B	C

Middlebrook Road at MD 119 (Great Seneca Highway)



AM PM

Existing

CLV	1052	867
V/C	0.66	0.54
LOS	B	A

Road Diet – Existing

CLV	1205	962
V/C	0.75	0.60
LOS	C	A

Road Diet – Future (20% Growth)

CLV	1446	1155
V/C	0.90	0.72
LOS	D	C

*Lane configuration adjustments and/or altering road diet limit may improve LOS

Wisteria Drive – One through lane with a center two way left turn lane (30% Growth)

Wisteria Drive at MD 118 (Germantown Road)		
	AM	PM
<i>Existing</i>		
CLV	713	985
V/C	0.45	0.62
LOS	A	A
<i>Future 4 lanes (30% Growth)</i>		
CLV	927	1281
V/C	0.58	0.80
LOS	A	C
<i>Future – 3 lanes center turn lane</i>		
CLV	1152	1604
V/C	0.72	1.00
LOS	C	F

Wisteria Drive at Crystal Rock Drive		
	AM	PM
<i>Existing</i>		
CLV	602	716
V/C	0.38	0.45
LOS	A	A
<i>Future 4 lanes (30% Growth)</i>		
CLV	783	930
V/C	0.49	0.58
LOS	A	A
<i>Future – 3 lanes center turn lane</i>		
CLV	623	751
V/C	0.39	0.47
LOS	A	A

Wisteria Drive at MD 119 (Great Seneca Highway)		
	AM	PM
<i>Existing</i>		
CLV	723	719
V/C	0.45	0.45
LOS	A	A
<i>Future 4lanes (30% Growth)</i>		
CLV	940	935
V/C	0.59	0.58
LOS	A	A
<i>Future – 3 lanes center turn lane</i>		
CLV	1116	1175
V/C	0.70	0.73
LOS	B	C

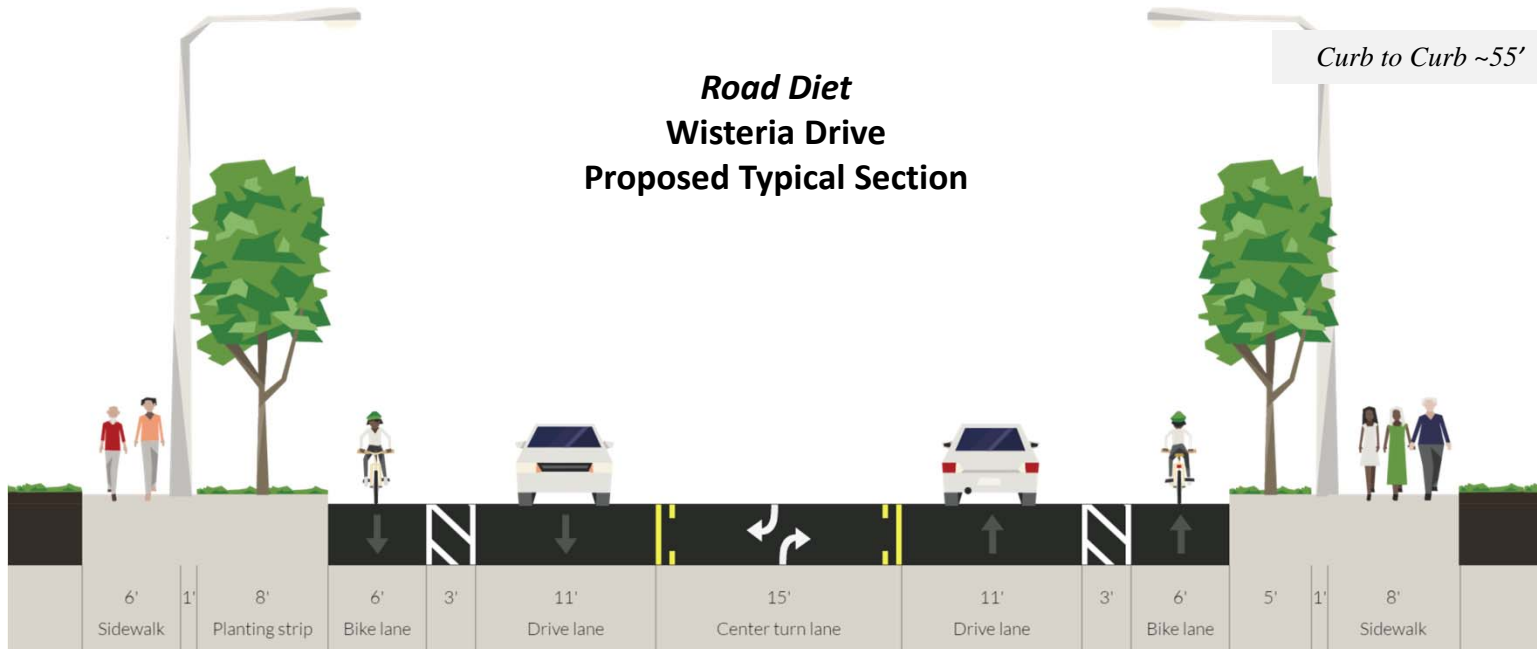
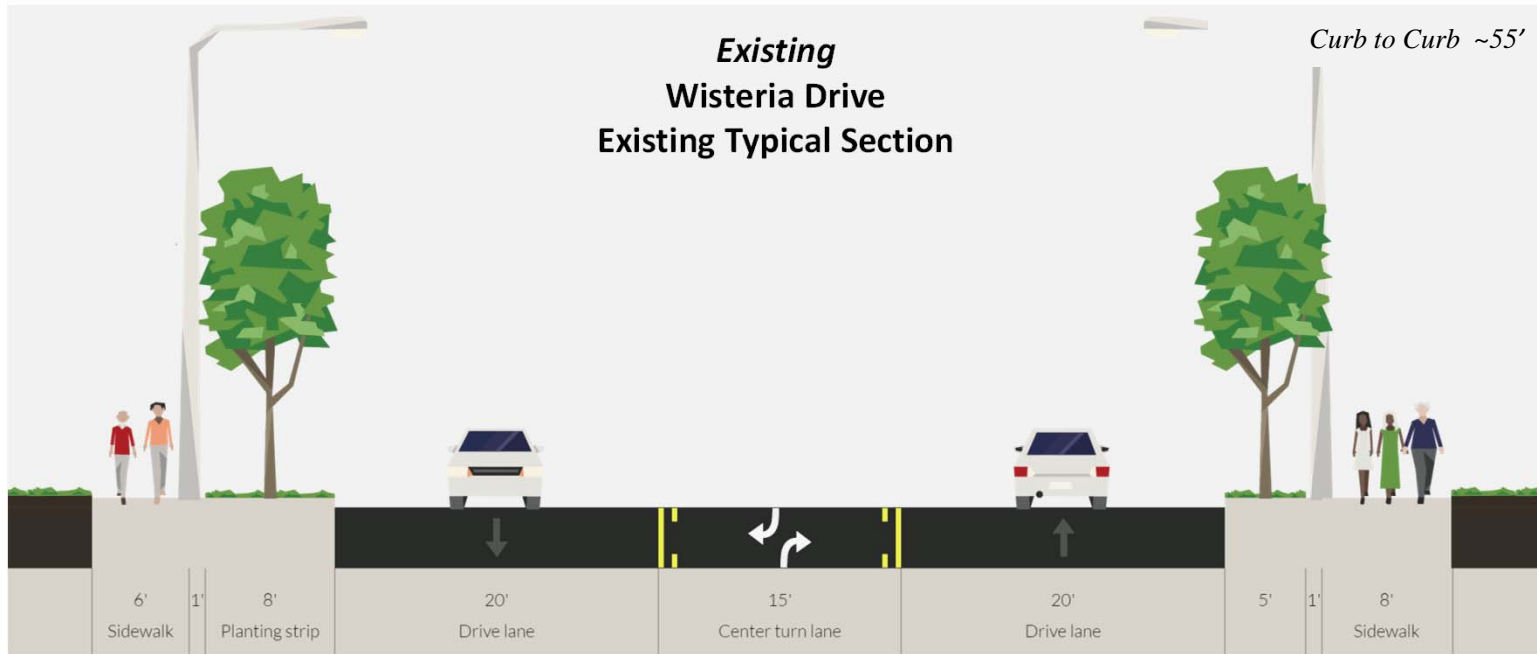
Wisteria Drive – One through lane with a center two way left turn lane (20% Growth)

Wisteria Drive at MD 118 (Germantown Road)		
	AM	PM
<i>Existing</i>		
CLV	713	985
V/C	0.45	0.62
LOS	A	A
<i>Future 4 lanes (20% Growth)</i>		
CLV	856	1182
V/C	0.53	0.74
LOS	A	C
<i>Future – 3 lanes Center Turn Lane</i>		
CLV	1063	1480
V/C	0.66	0.93
LOS	B	E

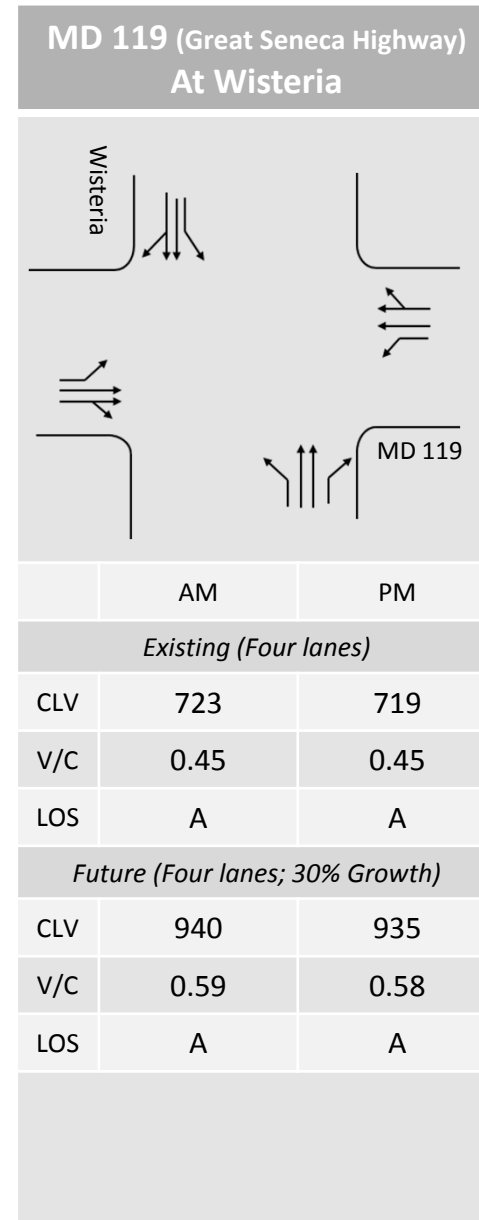
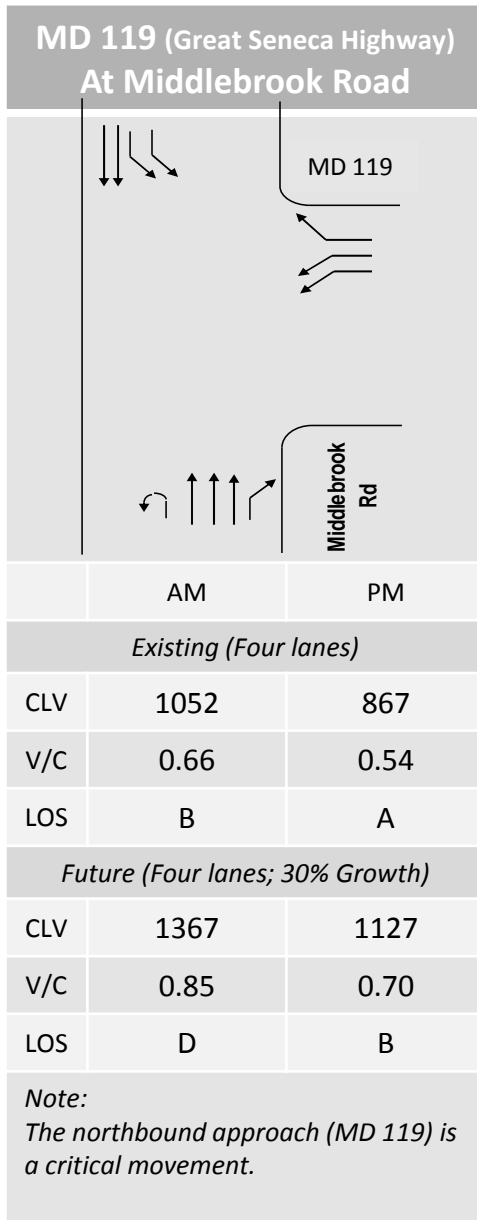
Wisteria Drive at Crystal Rock Drive		
	AM	PM
<i>Existing</i>		
CLV	602	716
V/C	0.38	0.45
LOS	A	A
<i>Future 4 lanes (20% Growth)</i>		
CLV	723	859
V/C	0.45	0.54
LOS	A	A
<i>Future – 3 lanes center turn lane</i>		
CLV	575	693
V/C	0.36	0.43
LOS	A	A

Wisteria Drive at MD 119 (Great Seneca Highway)		
	AM	PM
<i>Existing</i>		
CLV	723	719
V/C	0.45	0.45
LOS	A	A
<i>Future 4 lanes (20% Growth)</i>		
CLV	868	863
V/C	0.54	0.54
LOS	A	A
<i>Future 3 lanes center turn lane</i>		
CLV	1026	1085
V/C	0.64	0.68
LOS	B	B

Wisteria Drive – One through lane with a center two way left turn lane



MD 119 – Great Seneca Highway – Four lanes (30% Growth)



MD 119 – Great Seneca Highway – Four lanes (20% Growth)

MD 119 (Great Seneca Highway) At Middlebrook Road

	AM	PM
<i>Existing (Four lanes)</i>		
CLV	1052	867
V/C	0.66	0.54
LOS	B	A
<i>Future (Four lanes; 20% Growth)</i>		
CLV	1262	1040
V/C	0.79	0.65
LOS	C	B

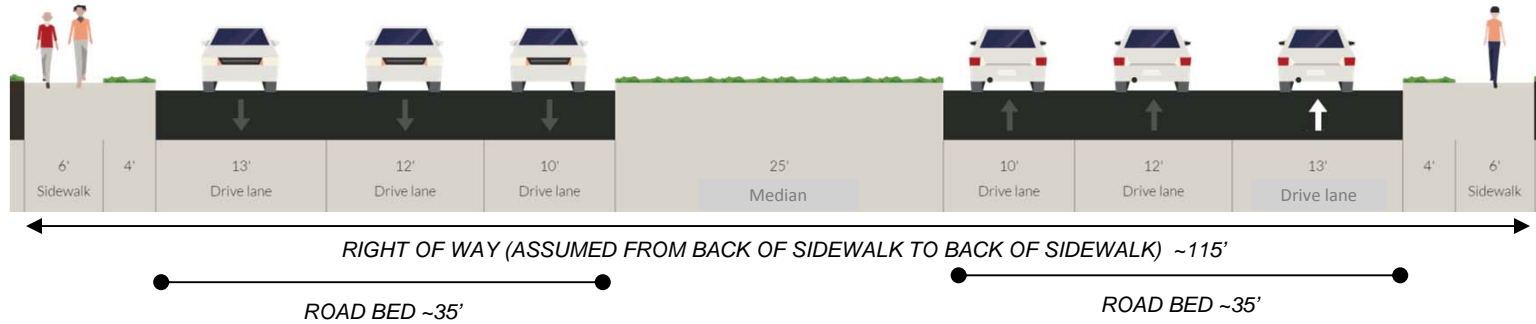
*Note:
The northbound approach (MD 119) is a critical movement.*

MD 119 (Great Seneca Highway) At Wisteria

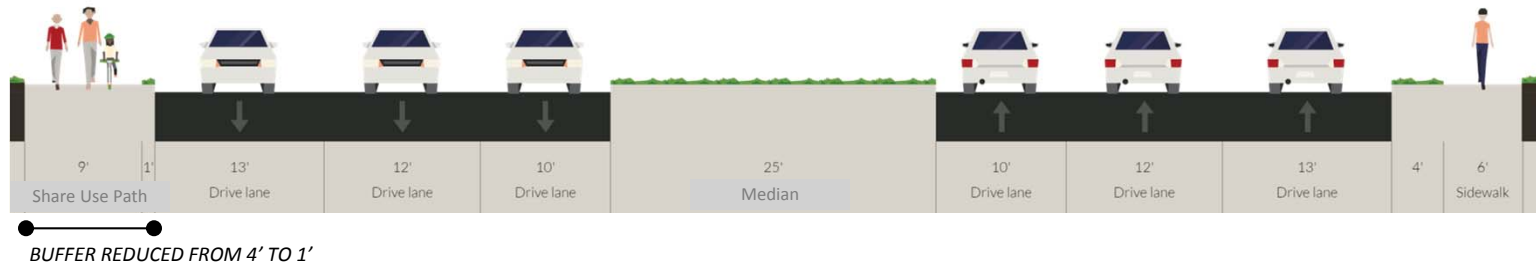
	AM	PM
<i>Existing (Four lanes)</i>		
CLV	723	719
V/C	0.45	0.45
LOS	A	A
<i>Future (Four lanes; 20% Growth)</i>		
CLV	868	863
V/C	0.54	0.54
LOS	A	A

MD 118 – Germantown Road – Shared Use Path

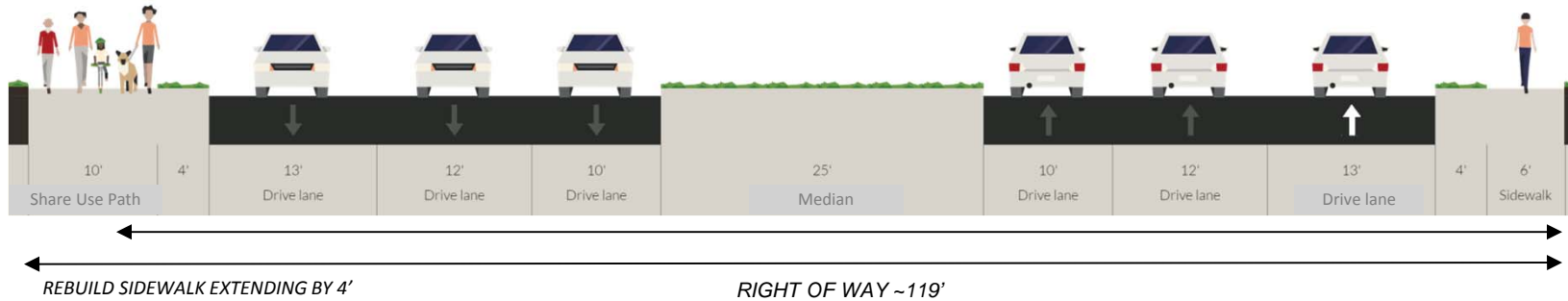
MD 118 Typical Section - Existing



Typical Section - Shared Use Path – OPTION 1 – Widen Sidewalk by Reducing Buffer



Typical Section - Shared Use Path – OPTION 2 – Widen Sidewalk to the Outside (may require additional right of way)



View Point - North

11/11/2016