

HIGHWAY TYPICAL SECTIONS FOR USE IN SPOT ONLINE

Updated February 15, 2019



This document contains 57 different highway typical cross sections for use in SPOT Online, NCDOT's GIS-based Web Application for providing automated, near real-time prioritization scores and project costs.

The typical sections listed provide a variety of options for users to choose from when entering the desired cross section for a new project in the application. Each typical section includes several data elements, such as the number of lanes, median type, and amount of right-of-way needed. These data elements are used to calculate quantitative scores for the Prioritization process, as well as calculate a planning-level cost estimate for the project.

The typical sections were developed by a team from the Strategic Prioritization Office (SPOT), Roadway Design Unit, Preliminary Estimates Section, Transportation Planning Branch, Program Development Branch, and the Enterprise Visualization Section. Please contact the Strategic Prioritization Office with any questions.

Table of Contents

<u>Typical Section Comparison</u>	<u>5</u>	<u>2N – 2 Lane Undivided with Paved Shoulders, and Sidepath, 25-45 mph.....</u>	<u>26</u>
<u>2A – 2 Lane Undivided with Paved Shoulders, 55 mph</u>	<u>13</u>	<u>2O – 2 Lane Undivided with Paved Shoulders, and Sidepath, 25-35 mph.....</u>	<u>27</u>
<u>2B – 2 Lane Undivided with Paved Shoulders, 25-45 mph</u>	<u>14</u>	<u>2P – 2 Lane Undivided with Paved Shoulders, Sidewalk, and Sidepath in CAMA Counties, 25-45 mph</u>	<u>28</u>
<u>2C – 2 Lane Undivided with Paved Shoulders, 25-35 mph.....</u>	<u>15</u>	<u>2Q – 2 Lane Divided (23' Raised Median) with Curb & Gutter, Sidewalk, and Sidepath, 25-45 mph</u>	<u>29</u>
<u>2D – 2 Lane Undivided with Paved Shoulders and Sidewalks, 25-45 mph.....</u>	<u>16</u>	<u>2R – 2 Lane Divided (17'-6" ft Raised Median) with Curb & Gutter, and Sidewalks, 25-45 mph</u>	<u>30</u>
<u>2E – 2 Lane Undivided with Curb & Gutter, Bike Lanes, and Sidewalks, 25-45 mph.....</u>	<u>17</u>	<u>3A – 2 Lane with Two Way Left Turn Lane, and Paved Shoulders, 25-55 mph.</u>	<u>31</u>
<u>2F – 2 Lane Undivided with Paved Shoulders and Sidewalks in CAMA Counties, 25-45 mph</u>	<u>18</u>	<u>3B – 2 Lane with Two Way Left Turn Lane, Curb & Gutter, and Sidewalks, 25-45 mph</u>	<u>32</u>
<u>2G – 2 Lane Undivided with Curb & Gutter, Parking Both Sides, Bike Lanes, and Sidewalks, 25-45 mph</u>	<u>19</u>	<u>3C – 2 Lane with Two Way Left Turn Lane, Curb & Gutter, Bike Lanes, and Sidewalks, 25-45 mph.....</u>	<u>33</u>
<u>2H – 2 Lane Undivided with Curb & Gutter, Parking One Side, Bike Lanes, and Sidewalks, 25-45 mph</u>	<u>20</u>	<u>3D – 2 Lane with Two Way Left Turn Lane, Paved Shoulders and Sidepath, 25-55 mph</u>	<u>34</u>
<u>2I – 2 Lane Divided (23' Raised Median) with Curb & Gutter and Sidewalks, 25-45 mph.....</u>	<u>21</u>	<u>3E – 2 Lane with Two Way Left Turn Lane, Curb & Gutter, Sidewalk, and Sidepath, 25-45 mph</u>	<u>35</u>
<u>2J – 2 Lane Divided (23' Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks, 25-45 mph</u>	<u>22</u>	<u>4A – 4 Lane Divided (46' Depressed Median) with Paved Shoulders, 45-70 mph</u>	<u>36</u>
<u>2K – 2 Lane Divided (17'-6" ft Raised Median) with Curb & Gutter and Sidewalks, 25-45 mph.....</u>	<u>23</u>	<u>4B – 4 Lane Divided (23' Raised Median) with Paved Shoulders and Sidewalks, 35-55 mph</u>	<u>37</u>
<u>2L – 2 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks, 25-45 mph</u>	<u>24</u>	<u>4C – 4 Lane Divided (23' Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph</u>	<u>38</u>
<u>2M – 2 Lane Undivided with Paved Shoulders, and Sidepath, 55 mph.....</u>	<u>25</u>		

"TYPICAL" HIGHWAY CROSS SECTIONS FOR USE IN SPOT ONLINE

4D – 4 Lane Divided (23' Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks, 35-45mph 39

4E – 4 Lane Divided (17'-6" Raised Median) with Paved Shoulders and Sidewalks, 35-55 mph..... 40

4F – 4 Lane Divided (17'-6" Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph..... 41

4G – 4 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks, 35-45mph 42

4H – 4 Lane Divided (46' Depressed Median) with Paved Shoulders, and Sidepath, 45-70 mph..... 43

4I – 4 Lane Divided (23' Raised Median) with Paved Shoulders, Sidewalk and Sidepath, 35-55 mph 44

4J – 4 Lane Divided (23' Raised Median) with Curb & Gutter, Sidewalk and Sidepath, 35-45 mph 45

4K – 4 Lane Divided (17'-6" Raised Median) with Paved Shoulders, Sidewalk, and Sidepath, 35-55 mph 46

4L – 4 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Sidewalk, and Sidepath, 35-45 mph 47

5A – 4 Lane with Two Way Left Turn Lane, Curb & Gutter, and Sidewalks, 35-45 mph..... 48

5B – 4 Lane with Two Way Left Turn Lane, Curb & Gutter, Sidewalk, and Sidepath, 35-45 mph 49

6A – 6 Lane Divided (46' Depressed Median) with Paved Shoulders, 45-70 mph..... 50

6B – 6 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders, 55-70mph..... 51

6C – 6 Lane Freeway (27' Median with Jersey Barrier) with Paved Shoulders and 2 Lane One-Way Service Roads each side, 55-70mph..... 52

6D – 6 Lane Freeway (4 General Purpose Lanes, 2 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph 53

6E – 6 Lane Divided (23' Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph 54

6F – 6 Lane Divided (17'-6" Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph 55

6G – 6 Lane Divided (46' Depressed Median) with Paved Shoulders, and Sidepath, 45-70 mph 56

6H – 6 Lane Divided (23' Raised Median) with Curb & Gutter, Sidewalk, and Sidepath, 35-45 mph 57

6I – 6 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Sidewalk, and Sidepath, 35-45 mph 58

8A – 8 Lane Divided (46' Depressed Median) with Paved Shoulders, 45-70 mph 59

8B – 8 Lane Divided (27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph 60

8C – 8 Lane Freeway (27' Median with Jersey Barrier) with Paved Shoulders and 2 Lane One-Way Service Roads each side, 55-70mph..... 61

8D – 8 Lane Freeway (6 General Purpose Lanes, 2 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph 62

8E – 8 Lane Freeway (4 General Purpose Lanes, 4 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph 63

“TYPICAL” HIGHWAY CROSS SECTIONS FOR USE IN SPOT ONLINE

<u>8F – 8 Lane Divided (23' Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph.....</u>	<u>64</u>
<u>8G – 6 Lane Divided (17'-6" Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph.....</u>	<u>65</u>
<u>10A – 10 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders, 55-70mph.....</u>	<u>66</u>

<u>10B – 10 Lane Freeway (8 General Purpose Lanes, 2 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph</u>	<u>67</u>
<u>10C – 10 Lane Freeway (6 General Purpose Lanes, 4 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph</u>	<u>68</u>
<u>12A – 12 Lane Freeway (8 General Purpose Lanes, 4 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph.....</u>	<u>69</u>

"TYPICAL" HIGHWAY CROSS SECTIONS FOR USE IN SPOT ONLINE

Typical Section Comparison

Typical Section #	Description	Total Travel Lanes	Total General Purpose Travel Lanes	Total Managed Lanes	Median Type	Access Control	Bike Lanes	Sidewalks/ Sidepath	Speed Limit Range (mph)	Outside Treatment	Min. Right-of-Way needed (feet)	Old Typical Section # (Dec. 2010)
2A	2 Lane Undivided with Paved Shoulders, 55 mph	2	2		Undivided	None	No	No/No	55	Paved Shoulder	60	2A
2B	2 Lane Undivided with Paved Shoulders, 25-45 mph	2	2		Undivided	None	No	No/No	25-45	Paved Shoulder	60	2B
2C	2 Lane Undivided with Paved Shoulders, 25-35 mph	2	2		Undivided	None	No	No/No	25-35	Paved Shoulder	50	2C
2D	2 Lane Undivided with Paved Shoulders and Sidewalks, 25-45 mph	2	2		Undivided	None	No	Yes/No	25-45	Paved Shoulder	90	2D
2E	2 Lane Undivided with Curb & Gutter, Bike Lanes, and Sidewalks, 25-45 mph	2	2		Undivided	None	Yes	Yes/No	25-45	Curb and Gutter	60	2E
2F	2 Lane Undivided with Paved Shoulders and Sidewalks in CAMA Counties, 25-45 mph	2	2		Undivided	None	No	Yes/No	25-45	Paved Shoulder – CAMA County	80	2F
2G	2 Lane Undivided with Curb & Gutter, Parking Both Sides, Bike Lanes, and Sidewalks, 25-45 mph	2	2		Undivided	None	Yes	Yes/No	25-45	Parking Both Sides and Curb and Gutter	85	2G
2H	2 Lane Undivided with Curb & Gutter, Parking One Side, Bike Lanes, and Sidewalks, 25-45 mph	2	2		Undivided	None	Yes	Yes/No	25-45	Parking One Side and Curb and Gutter	75	2H
2I	2 Lane Divided (23' Raised Median) with Curb & Gutter and Sidewalks, 25-45 mph	2	2		23' Raised Median	Partial, None	No	Yes/No	25-45	Curb and Gutter	85	
2J	2 Lane Divided (23' Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks, 25-45 mph	2	2		23' Raised Median	Partial, None	Yes	Yes/No	25-45	Curb and Gutter	90	2I

"TYPICAL" HIGHWAY CROSS SECTIONS FOR USE IN SPOT ON!INE

Typical Section #	Description	Total Travel Lanes	Total General Purpose Travel Lanes	Total Managed Lanes	Median Type	Access Control	Bike Lanes	Sidewalks/ Sidepath	Speed Limit Range (mph)	Outside Treatment	Min. Right-of-Way needed (feet)	Old Typical Section # (Dec. 2010)
2K	2 Lane Divided (17'-6" ft Raised Median) with Curb & Gutter and Sidewalks, 25-45 mph	2	2		17'-6" Raised Median	None	No	Yes/No	25-45	Curb and Gutter	80	
2L	2 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks, 25-45 mph	2	2		17'-6" Raised Median	None	Yes	Yes/No	25-45	Curb and Gutter	80	
2M	2 Lane Undivided with Paved Shoulders, and Sidepath, 55 mph	2	2		Undivided	None	No	No/Yes	55	Paved Shoulder	90	
2N	2 Lane Undivided with Paved Shoulders, and Sidepath, 25-45 mph	2	2		Undivided	None	No	No/Yes	25-45	Paved Shoulder	90	
2O	2 Lane Undivided with Paved Shoulders, and Sidepath, 25-35 mph	2	2		Undivided	None	No	No/Yes	25-35	Paved Shoulder	80	
2P	2 Lane Undivided with Paved Shoulders, Sidewalks and Sidepaths in CAMA Counties, 25-45 mph	2	2		Undivided	None	No	Yes/Yes	25-45	Paved Shoulder – CAMA County	95	
2Q	2 Lane Divided (23' Raised Median) with Curb & Gutter Sidewalk, and Sidepath, 25-45 mph	2	2		23' Raised Median	Partial, None	No	Yes/Yes	25-45	Curb and Gutter	105	
2R	2 Lane Divided (17'-6" ft Raised Median) with Curb & Gutter, Sidewalk and Sidepath, 25-45 mph	2	2		17'-6" Raised Median	None	No	Yes/Yes	25-45	Curb and Gutter	100	
3A	2 Lane with Two Way Left Turn Lane, and Paved Shoulders, 25-55 mph	2	2		TWLTL	None	No	No/No	25-55	Paved Shoulder	80	3A
3B	2 Lane with Two Way Left Turn Lane, Curb & Gutter, and Sidewalks, 25-45 mph	2	2		TWLTL	None	No	Yes/No	25-45	Curb and Gutter	80	3B
3C	2 Lane with Two Way Left Turn Lane, Curb & Gutter, Bike Lanes, and Sidewalks, 25-45 mph	2	2		TWLTL	None	Yes	Yes/No	25-45	Curb and Gutter	80	

"TYPICAL" HIGHWAY CROSS SECTIONS FOR USE IN SPOT ON!INE

Typical Section #	Description	Total Travel Lanes	Total General Purpose Travel Lanes	Total Managed Lanes	Median Type	Access Control	Bike Lanes	Sidewalks/ Sidepath	Speed Limit Range (mph)	Outside Treatment	Min. Right-of-Way needed (feet)	Old Typical Section # (Dec. 2010)
3D	2 Lane with Two Way Left Turn Lane, Paved Shoulders, and Sidepath, 25-55 mph	2	2		TWLTL	None	No	No/Yes	25-55	Paved Shoulder	110	
3E	2 Lane with Two Way Left Turn Lane, Curb & Gutter, Sidewalks, and Sidepath, 25-45 mph	2	2		TWLTL	None	No	Yes/Yes	25-45	Curb and Gutter	90	
4A	4 Lane Divided (46' Depressed Median) with Paved Shoulders, 45-70 mph	4	4		46' Depressed Median	Full, Limited, Partial	No	No/No	45-70	Paved Shoulder	300	4A
4B	4 Lane Divided (23' Raised Median) with Paved Shoulders and Sidewalks, 35-55 mph	4	4		23' Raised Median	Partial, None	No	Yes/No	35-55	Paved Shoulder	130	
4C	4 Lane Divided (23' Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph	4	4		23' Raised Median	Partial, None	No	Yes/No	35-45	Curb and Gutter	110	4C
4D	4 Lane Divided (23' Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks, 35-45mph	4	4		23' Raised Median	Partial, None	Yes	Yes/No	35-45	Curb and Gutter	110	4D
4E	4 Lane Divided (17'-6" Raised Median) with Paved Shoulders and Sidewalks, 35-55 mph	4	4		17'-6" Raised Median	Partial, None	No	Yes/No	35-55	Paved Shoulder	110	
4F	4 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Sidewalks, 35-45 mph	4	4		17'-6" Raised Median	Partial, None	No	Yes/No	35-45	Curb and Gutter-	100	
4G	4 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks, 35-45mph	4	4		17'-6" Raised Median	Partial, None	Yes	Yes/No	35-45	Curb and Gutter	110	
4H	4 Lane Divided (46' Depressed Median) with Paved Shoulders, and Sidepath, 45-55 mph	4	4		46' Depressed Median	Limited, Partial	No	No/Yes	45-55	Paved Shoulder	195	
4I	4 Lane Divided (23' Raised Median) with Paved Shoulders Sidewalk, and Sidepath 35-55 mph	4	4		23' Raised Median	Partial, None	No	Yes/Yes	35-55	Paved Shoulder	150	

"TYPICAL" HIGHWAY CROSS SECTIONS FOR USE IN SPOT ON!INE

Typical Section #	Description	Total Travel Lanes	Total General Purpose Travel Lanes	Total Managed Lanes	Median Type	Access Control	Bike Lanes	Sidewalks/ Sidepath	Speed Limit Range (mph)	Outside Treatment	Min. Right-of-Way needed (feet)	Old Typical Section # (Dec. 2010)
4J	4 Lane Divided (23' Raised Median) with Curb & Gutter, Sidewalk, and Sidepath, 35-45 mph	4	4		23' Raised Median	Partial, None	No	Yes/Yes	35-45	Curb and Gutter	125	
4K	4 Lane Divided (17'-6" Raised Median) with Paved Shoulders, Sidewalk, and Sidepath, 35-55 mph	4	4		17'-6" Raised Median	Partial, None	No	Yes/Yes	35-55	Paved Shoulder	130	
4L	4 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Sidewalk, and Sidepath, 35-45 mph	4	4		17'-6" Raised Median	Partial, None	No	Yes/Yes	35-45	Curb and Gutter-	115	
5A	4 Lane with Two Way Left Turn Lane, Curb & Gutter, and Sidewalk, 35-45 mph	4	4		TWLTL	None	No	Yes/No	35-45	Curb and Gutter	100	5A
5B	4 Lane with Two Way Left Turn Lane, Curb & Gutter, Sidewalk, and Sidepath 35-45 mph	4	4		TWLTL	None	No	Yes/Yes	35-45	Curb and Gutter	120	
6A	6 Lane Divided (46' Depressed Median) with Paved Shoulders, 45-70 mph	6	6		46' Depressed Median	Full, Limited, Partial	No	No/No	45-70	Paved Shoulder	300	6A
6B	6 Lane Divided (27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph	6	6		27' Median with Jersey Barrier	Full, Limited	No	No/No	55-70	Paved Shoulder	200	
6C	6 Lane Freeway (27' Median with Jersey Barrier) with Paved Shoulders and 2 Lane One-Way Service Roads each side, 55-70mph	6	6		27' Median with Jersey Barrier	Full	No	No/No	55-70	Paved Shoulder and 2 Lane One-Way Service Roads each side	300	

"TYPICAL" HIGHWAY CROSS SECTIONS FOR USE IN SPOT ON!INE

Typical Section #	Description	Total Travel Lanes	Total General Purpose Travel Lanes	Total Managed Lanes	Median Type	Access Control	Bike Lanes	Sidewalks/ Sidepath	Speed Limit Range (mph)	Outside Treatment	Min. Right-of-Way needed (feet)	Old Typical Section # (Dec. 2010)
6D	6 Lane Freeway (4 General Purpose Lanes, 2 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph	6	4	2	27' Median with Jersey Barrier; Note: Managed Lanes separated from General Purpose Lanes by 4ft Buffer	Full	No	No/No	55-70	Paved Shoulder	200	
6E	6 Lane Divided (23' Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph	6	6		23' Raised Median	Partial, None	No	Yes/No	35-45	Curb and Gutter	150	6B
6F	6 Lane Divided (17'-6" Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph	6	6		17'-6" Raised Median	Partial, None	No	Yes/No	35-45	Curb and Gutter	130	
6G	6 Lane Divided (46' Depressed Median) with Paved Shoulders, and Sidepath 45-70 mph	6	6		46' Depressed Median	Full, Limited, Partial	No	No/Yes	45-70	Paved Shoulder	300	
6H	6 Lane Divided (23' Raised Median) with Curb & Gutter, and Sidewalk, and Sidepath 35-45 mph	6	6		23' Raised Median	Partial, None	No	Yes/Yes	35-45	Curb and Gutter	160	
6I	6 Lane Divided (17'-6" Raised Median) with Curb & Gutter, and Sidewalk, and Sidepath, 35-45 mph	6	6		17'-6" Raised Median	Partial, None	No	Yes/Yes	35-45	Curb and Gutter	140	
8A	8 Lane Divided (46' Depressed Median) with Paved Shoulders, 45-70 mph	8	8		46' Depressed Median	Full, Limited, Partial	No	No/No	45-70	Paved Shoulder	300	
8B	8 Lane Divided (27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph	8	8		27' Median with Jersey Barrier	Full	No	No/No	55-70	Paved Shoulder	250	

"TYPICAL" HIGHWAY CROSS SECTIONS FOR USE IN SPOT ON!INE

Typical Section #	Description	Total Travel Lanes	Total General Purpose Travel Lanes	Total Managed Lanes	Median Type	Access Control	Bike Lanes	Sidewalks/ Sidepath	Speed Limit Range (mph)	Outside Treatment	Min. Right-of-Way needed (feet)	Old Typical Section # (Dec. 2010)
8C	8 Lane Freeway (27' Median with Jersey Barrier) with Paved Shoulders and 2 Lane One-Way Service Roads each side, 55-70mph	8	8		27' Median with Jersey Barrier	Full	No	No/No	55-70	Paved Shoulder and 2 Lane One-Way Service Roads each side	350	
8D	8 Lane Freeway (6 General Purpose Lanes, 2 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph	8	6	2	27' Median with Jersey Barrier; Note: Managed Lanes separated from General Purpose Lanes by 4ft Buffer	Full	No	No/No	55-70	Paved Shoulder	300	
8E	8 Lane Freeway (4 General Purpose Lanes, 4 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph	8	4	4	27' Median with Jersey Barrier; Note: Managed Lanes separated from General Purpose Lanes by 4ft Buffer	Full	No	No/No	55-70	Paved Shoulder	220	
8F	8 Lane Divided (23' Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph	8	8		23' Raised Median	Partial, None	No	Yes/No	35-45	Curb and Gutter	160	8A

"TYPICAL" HIGHWAY CROSS SECTIONS FOR USE IN SPOT ONLINE

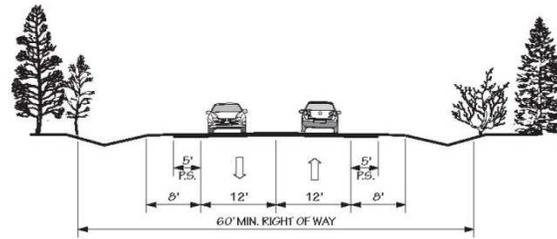
Typical Section #	Description	Total Travel Lanes	Total General Purpose Travel Lanes	Total Managed Lanes	Median Type	Access Control	Bike Lanes	Sidewalks/Sidepath	Speed Limit Range (mph)	Outside Treatment	Min. Right-of-Way needed (feet)	Old Typical Section # (Dec. 2010)
8G	6 Lane Divided (17'-6" Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph	8	8		17'-6" Raised Median	Partial, None	No	Yes/No	35-45	Curb and Gutter	150	
10A	10 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders, 55-70mph)	10	10		27' Median with Jersey Barrier	Full	No	No/No	55-70	Paved Shoulder	300	
10B	10 Lane Freeway (8 General Purpose Lanes, 2 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph	10	8	2	27' Median with Jersey Barrier; Note: Managed Lanes separated from General Purpose Lanes by Jersey Barrier	Full	No	No/No	55-70	Paved Shoulder	300	
10C	10 Lane Freeway (6 General Purpose Lanes, 4 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph	10	6	4	27' Median with Jersey Barrier; Note: Managed Lanes separated from General Purpose Lanes by Jersey Barrier	Full	No	No/No	55-70	Paved Shoulder	300	

"TYPICAL" HIGHWAY CROSS SECTIONS FOR USE IN SPOT ON!INE

Typical Section #	Description	Total Travel Lanes	Total General Purpose Travel Lanes	Total Managed Lanes	Median Type	Access Control	Bike Lanes	Sidewalks/ Sidepath	Speed Limit Range (mph)	Outside Treatment	Min. Right-of-Way needed (feet)	Old Typical Section # (Dec. 2010)
12A	12 Lane Freeway (8 General Purpose Lanes, 4 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph	12	8	4	27' Median with Jersey Barrier; Note: Managed Lanes separated from General Purpose Lanes by Jersey Barrier	Full	No	No/No	55-70	Paved Shoulder	300	

2A – 2 Lane Undivided with Paved Shoulders, 55 mph

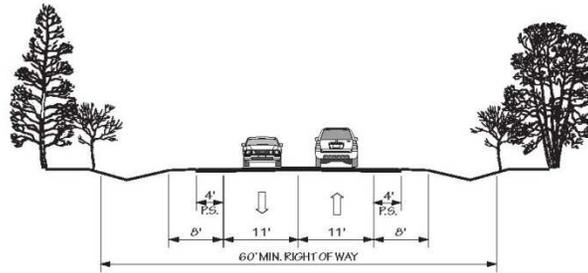
TYPICAL SECTION No. 2A 2 LANE UNDIVIDED WITH PAVED SHOULDERS



POSTED SPEED 55 MPH

2B – 2 Lane Undivided with Paved Shoulders, 25-45 mph

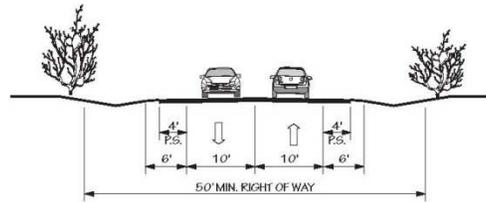
TYPICAL SECTION No. 2B
2 LANE UNDIVIDED WITH PAVED SHOULDERS



POSTED SPEED 25-45 MPH

2C – 2 Lane Undivided with Paved Shoulders, 25-35 mph

TYPICAL SECTION No. 2C 2 LANE UNDIVIDED WITH PAVED SHOULDERS

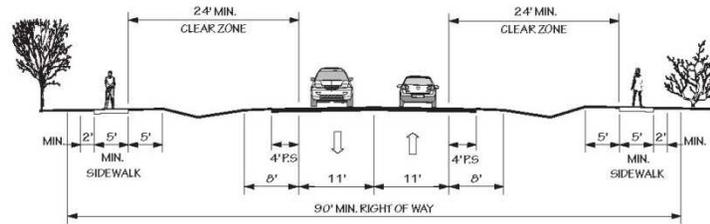


POSTED SPEED 25 - 35 MPH

2D – 2 Lane Undivided with Paved Shoulders and Sidewalks, 25-45 mph

TYPICAL SECTION No. 2D

2 LANE UNDIVIDED WITH PAVED SHOULDERS AND SIDEWALKS

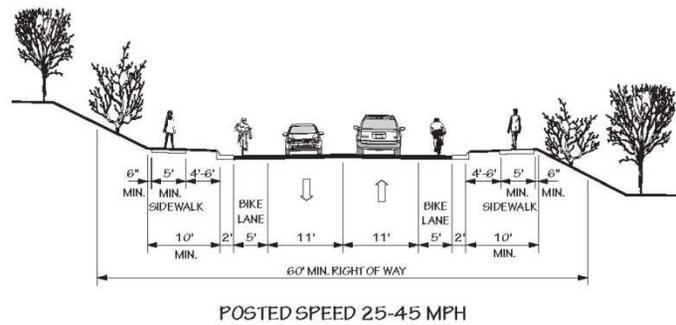


POSTED SPEED 25-45 MPH

2E – 2 Lane Undivided with Curb & Gutter, Bike Lanes, and Sidewalks, 25-45 mph

TYPICAL SECTION No. 2E

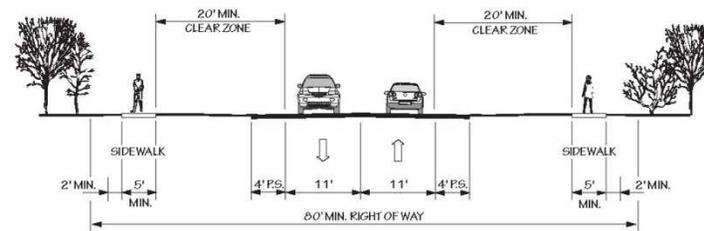
2 LANE UNDIVIDED WITH CURB & GUTTER, BIKE LANES, AND SIDEWALKS



2F – 2 Lane Undivided with Paved Shoulders and Sidewalks in CAMA Counties, 25-45 mph

TYPICAL SECTION No. 2F

2 LANE UNDIVIDED WITH PAVED SHOULDERS AND SIDEWALKS
IN CAMA COUNTIES

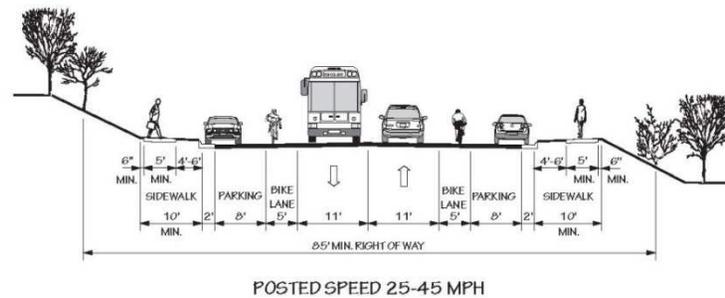


POSTED SPEED 25-45 MPH

2G – 2 Lane Undivided with Curb & Gutter, Parking Both Sides, Bike Lanes, and Sidewalks, 25-45 mph

TYPICAL SECTION No. 2G

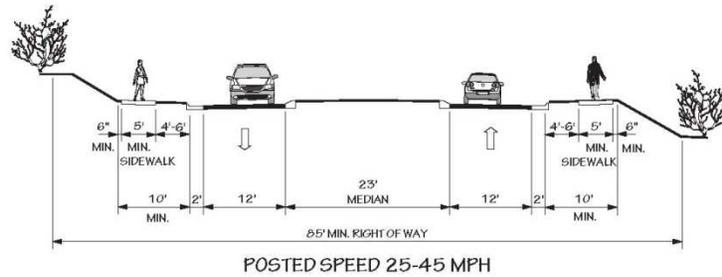
2 LANE UNDIVIDED WITH CURB & GUTTER, PARKING BOTH SIDES, BIKE LANES, AND SIDEWALKS



21 – 2 Lane Divided (23' Raised Median) with Curb & Gutter and Sidewalks, 25-45 mph

TYPICAL SECTION No. 21

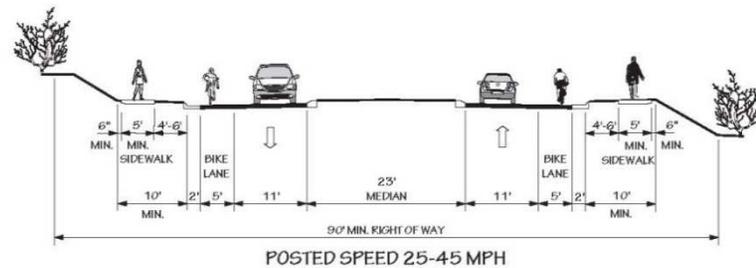
2 LANE DIVIDED (23' RAISED MEDIAN)
WITH CURB & GUTTER AND SIDEWALKS



2J – 2 Lane Divided (23' Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks, 25-45 mph

TYPICAL SECTION No. 2J

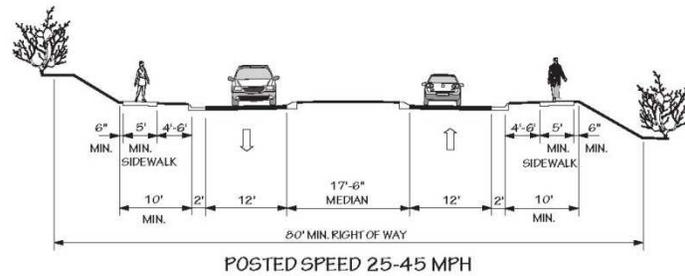
2 LANE DIVIDED (23' RAISED MEDIAN) WITH CURB & GUTTER,
BIKE LANES, AND SIDEWALKS



2K – 2 Lane Divided (17'-6" ft Raised Median) with Curb & Gutter and Sidewalks, 25-45 mph

TYPICAL SECTION No. 2K

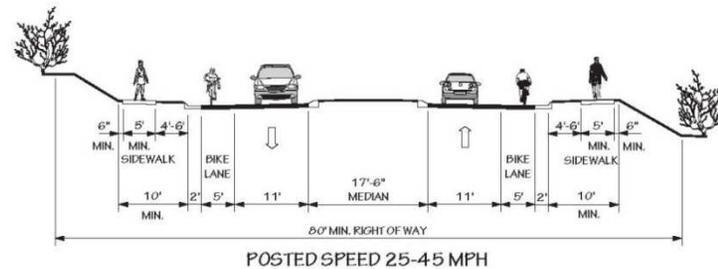
2 LANE DIVIDED (17'-6" RAISED MEDIAN)
WITH CURB & GUTTER AND SIDEWALKS



2L – 2 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks, 25-45 mph

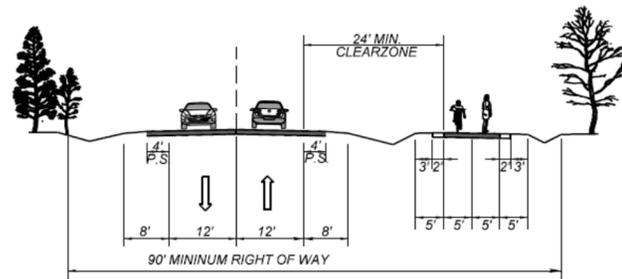
TYPICAL SECTION No. 2L

2 LANE DIVIDED (17'-6" RAISED MEDIAN)
WITH CURB & GUTTER, BIKE LANES, AND SIDEWALKS



2M – 2 Lane Undivided with Paved Shoulders, and Sidepath, 55 mph

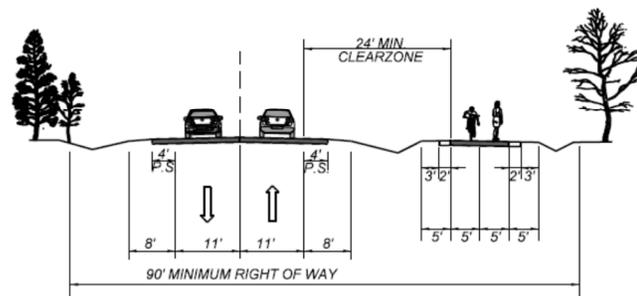
TYPICAL SECTION No. 2M 2 LANE UNDIVIDED WITH PAVED SHOULDERS AND SIDEPATH



POSTED SPEED 55 MPH

2N – 2 Lane Undivided with Paved Shoulders, and Sidepath, 25-45 mph

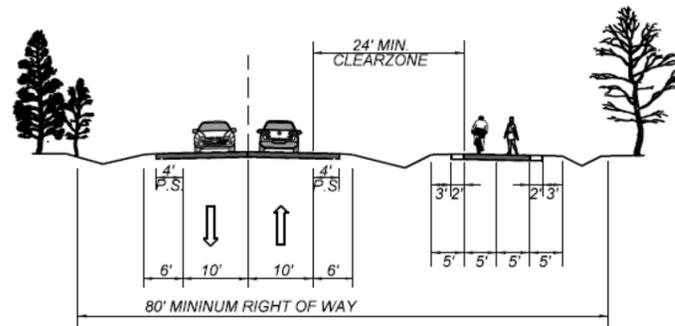
TYPICAL SECTION No. 2N 2 LANE UNDIVIDED WITH PAVED SHOULDERS AND SIDEPATH



POSTED SPEED 25-45 MPH

20 – 2 Lane Undivided with Paved Shoulders, and Sidepath, 25-35 mph

TYPICAL SECTION No. 20
2 LANE UNDIVIDED WITH PAVED SHOULDERS AND SIDEPATH

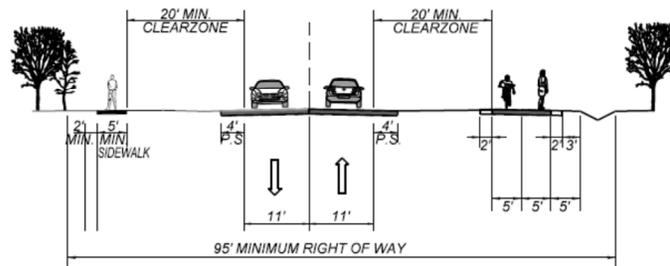


POSTED SPEED 25-35 MPH

2P – 2 Lane Undivided with Paved Shoulders, Sidewalk, and Sidepath in CAMA Counties, 25-45 mph

TYPICAL SECTION No. 2P

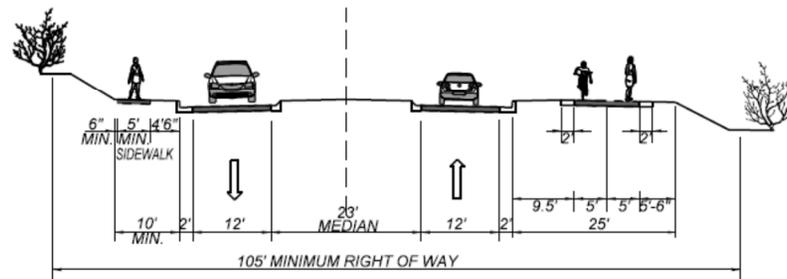
2 LANE UNDIVIDED WITH PAVED SHOULDERS, SIDEWALK AND SIDEPATH
IN CAMA COUNTIES



POSTED SPEED 25-45 MPH

2Q – 2 Lane Divided (23' Raised Median) with Curb & Gutter, Sidewalks, and Sidepath, 25-45 mph

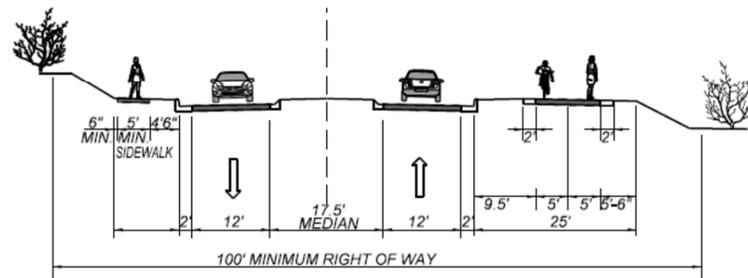
TYPICAL SECTION No. 2Q
2 LANE DIVIDED (23' RAISED MEDIAN)
WITH CURB AND GUTTER, SIDEWALK AND SIDEPATH



POSTED SPEED 25-45 MPH

2R – 2 Lane Divided (17'-6" ft Raised Median) with Curb & Gutter, Sidewalks, and Sidepath, 25-45 mph

TYPICAL SECTION No. 2R
2 LANE DIVIDED (17.5' RAISED MEDIAN)
WITH CURB AND GUTTER, SIDEWALK AND SIDEPATH

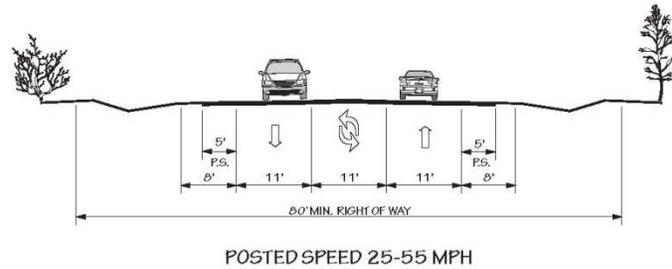


POSTED SPEED 25-45 MPH

3A – 2 Lane with Two Way Left Turn Lane, and Paved Shoulders, 25-55 mph

TYPICAL SECTION No. 3A

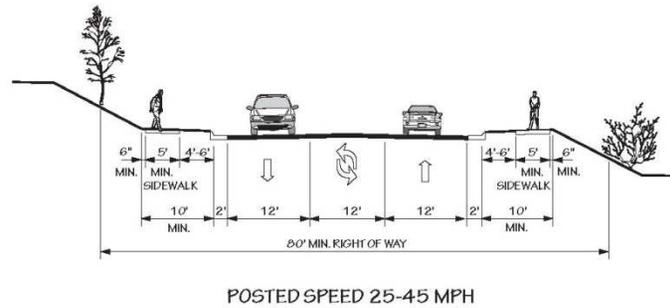
2 LANE WITH TWO WAY LEFT TURN LANE, AND PAVED SHOULDERS



3B – 2 Lane with Two Way Left Turn Lane, Curb & Gutter, and Sidewalks, 25-45 mph

TYPICAL SECTION No. 3B

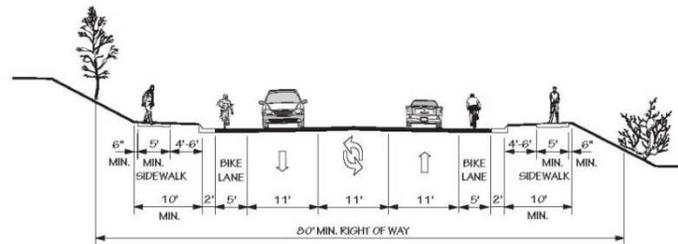
2 LANE WITH TWO WAY LEFT TURN LANE, CURB & GUTTER,
AND SIDEWALKS



3C – 2 Lane with Two Way Left Turn Lane, Curb & Gutter, Bike Lanes, and Sidewalks, 25-45 mph

TYPICAL SECTION No. 3C

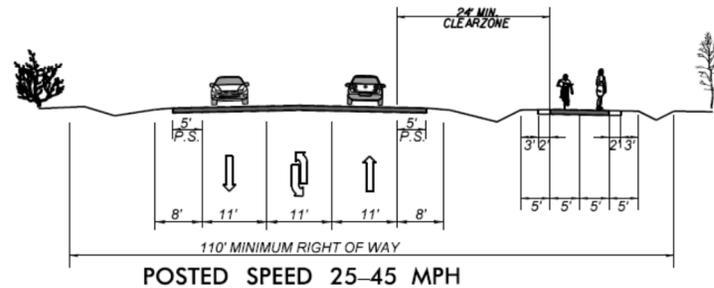
2 LANE WITH TWO WAY LEFT TURN LANE, CURB & GUTTER, BIKE LANES, AND SIDEWALKS



POSTED SPEED 25-45 MPH

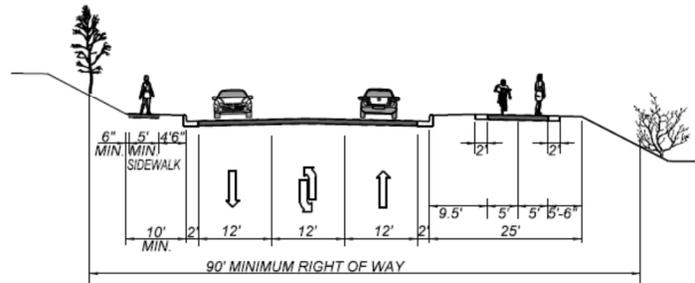
3D – 2 Lane with Two Way Left Turn Lane, Paved Shoulders, and Sidepath 25-55 mph

TYPICAL SECTION No. 3D
2 LANE WITH TWO WAY LEFT TURN LANE,
PAVED SHOULDERS AND SIDEPATH



3E – 2 Lane with Two Way Left Turn Lane, Curb & Gutter, Sidewalk, and Sidepath, 25-45 mph

TYPICAL SECTION No. 3E
2 LANE WITH TWO WAY LEFT TURN LANE,
CURB AND GUTTER, SIDEWALK, AND SIDEPATH

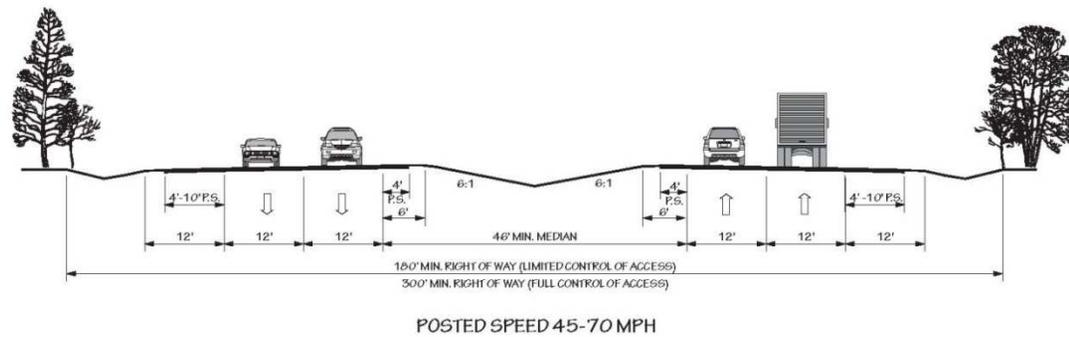


POSTED SPEED 25-45 MPH

4A – 4 Lane Divided (46' Depressed Median) with Paved Shoulders, 45-70 mph

TYPICAL SECTION No. 4A

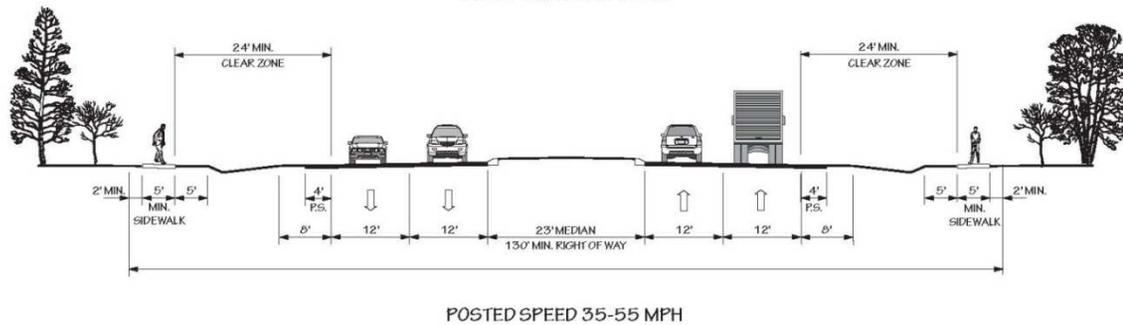
4 LANE DIVIDED (46' DEPRESSED MEDIAN) WITH PAVED SHOULDERS



4B – 4 Lane Divided (23' Raised Median) with Paved Shoulders and Sidewalks, 35-55 mph

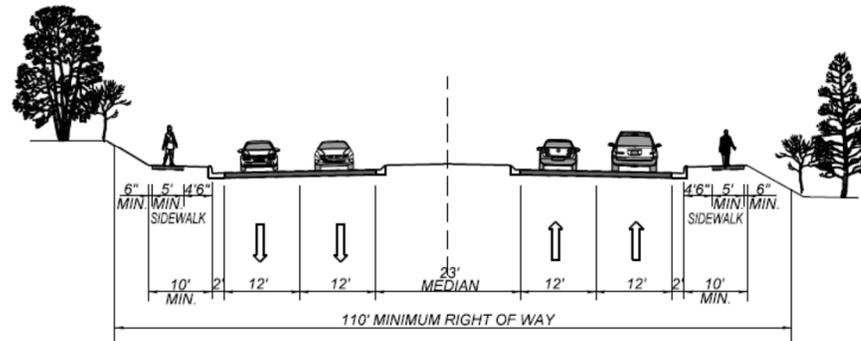
TYPICAL SECTION No. 4B

4 LANE DIVIDED (23' RAISED MEDIAN) WITH PAVED SHOULDERS AND SIDEWALKS



4C – 4 Lane Divided (23' Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph

TYPICAL SECTION No. 4C
4 LANE DIVIDED (23' RAISED MEDIAN)
WITH CURB AND GUTTER AND SIDEWALKS

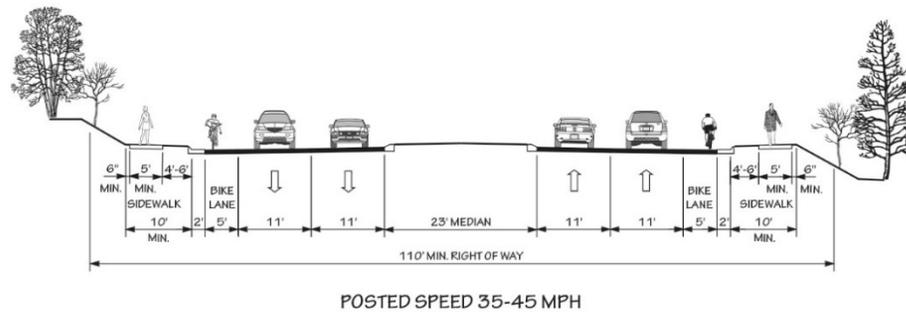


POSTED SPEED 35-45 MPH

4D – 4 Lane Divided (23' Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks, 35-45mph

TYPICAL SECTION No. 4D

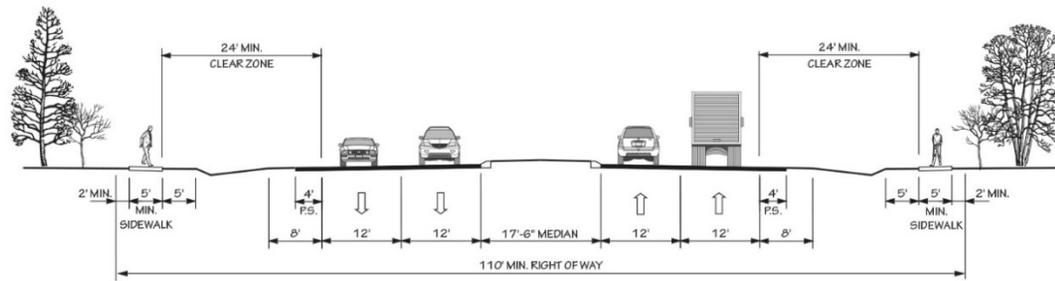
4 LANE DIVIDED (23' RAISED MEDIAN) WITH CURB & GUTTER,
BIKE LANES, AND SIDEWALKS



4E – 4 Lane Divided (17'-6" Raised Median) with Paved Shoulders and Sidewalks, 35-55 mph

TYPICAL SECTION No. 4E

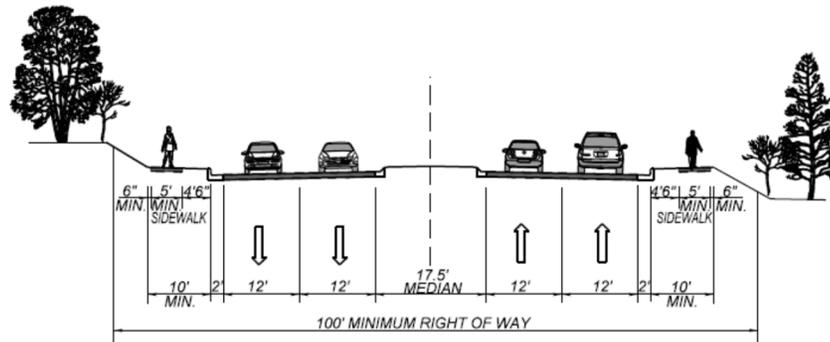
4 LANE DIVIDED (17'-6" RAISED MEDIAN) WITH
PAVED SHOULDERS AND SIDEWALKS



POSTED SPEED 35-55 MPH

4F – 4 Lane Divided (17'-6" Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph

TYPICAL SECTION No. 4F
4 LANE DIVIDED (17.5' RAISED MEDIUM)
WITH CURB AND GUTTER AND SIDEWALKS

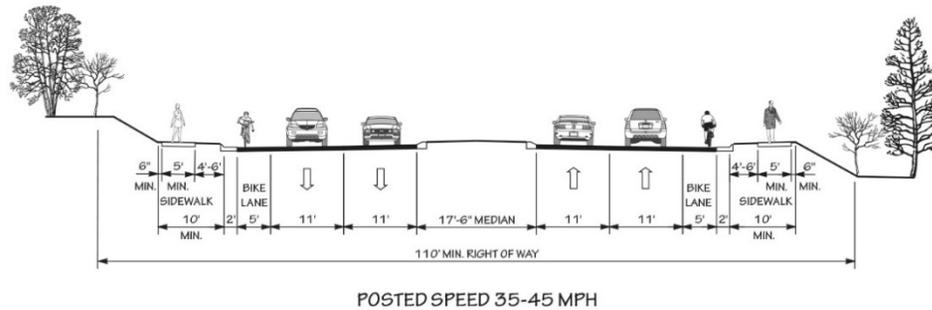


POSTED SPEED 35-45 MPH

4G – 4 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks, 35-45mph

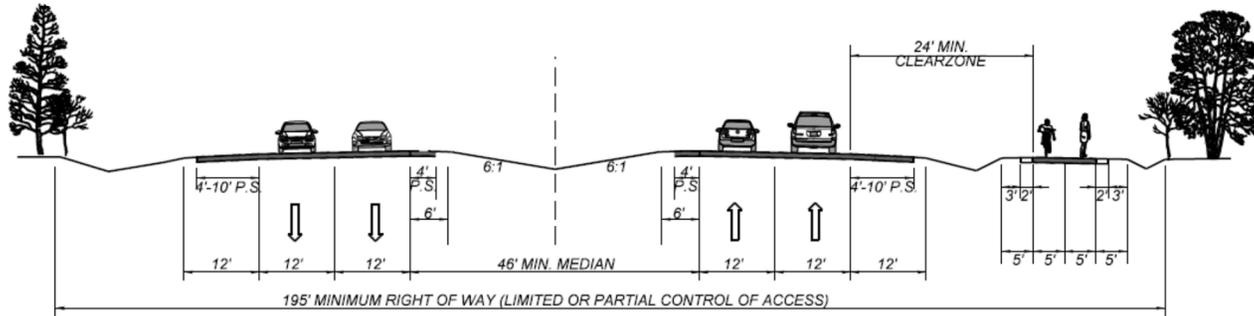
TYPICAL SECTION No. 4G

4 LANE DIVIDED (17'-6" RAISED MEDIAN) WITH CURB & GUTTER, BIKE LANES, AND SIDEWALKS



4H – 4 Lane Divided (46' Depressed Median) with Paved Shoulders, and Sidepath, 45-70 mph

TYPICAL SECTION No. 4H
4 LANE DIVIDED (46' DEPRESSED MEDIAN)
WITH PAVED SHOULDERS AND SIDEPATH

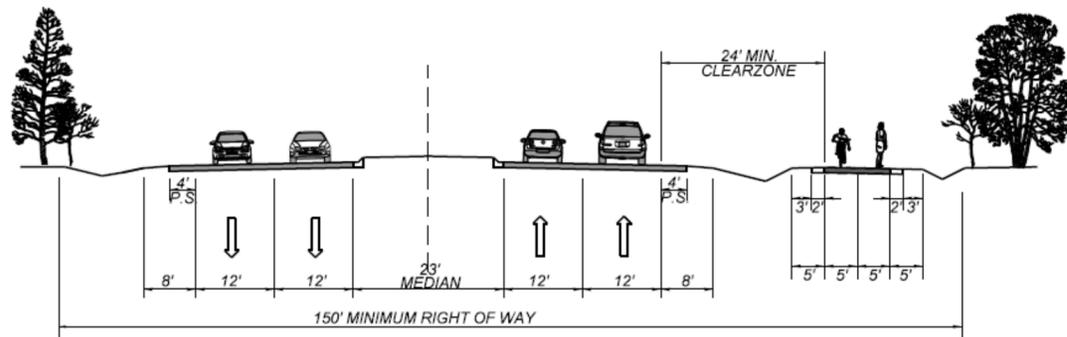


POSTED SPEED 45-55 MPH

4I – 4 Lane Divided (23' Raised Median) with Paved Shoulders, Sidewalk, and Sidepath, 35-55 mph

TYPICAL SECTION No. 4I

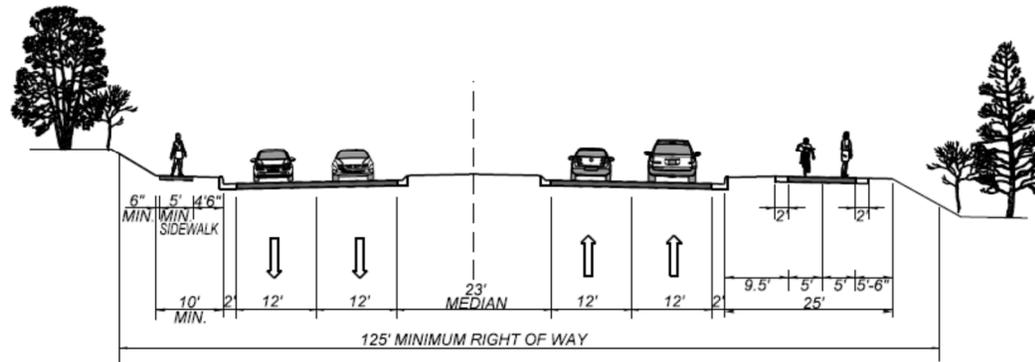
4 LANE DIVIDED (23' RAISED MEDIAN)
WITH PAVED SHOULDERS AND SIDEPATH



POSTED SPEED 35-55 MPH

4J – 4 Lane Divided (23' Raised Median) with Curb & Gutter, Sidewalk, and Sidepath, 35-45 mph

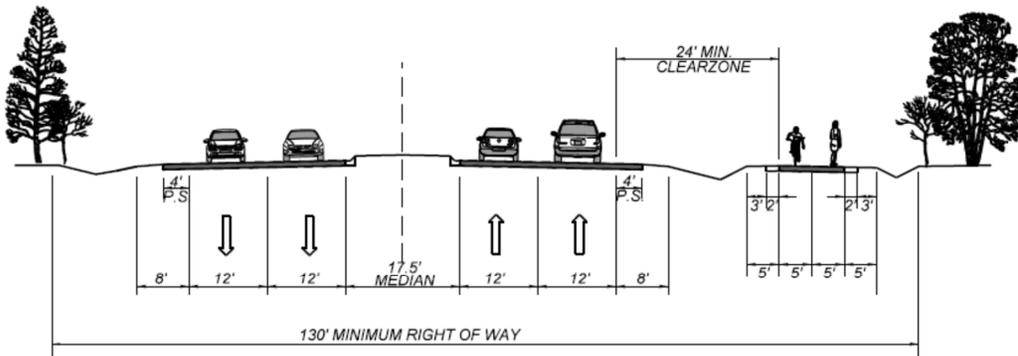
TYPICAL SECTION No. 4J
4 LANE DIVIDED (23' RAISED MEDIAN)
WITH CURB AND GUTTER, SIDEWALK AND SIDEPATH



POSTED SPEED 35-45 MPH

4K – 4 Lane Divided (17'-6" Raised Median) with Paved Shoulders, Sidewalk, and Sidepath, 35-55 mph

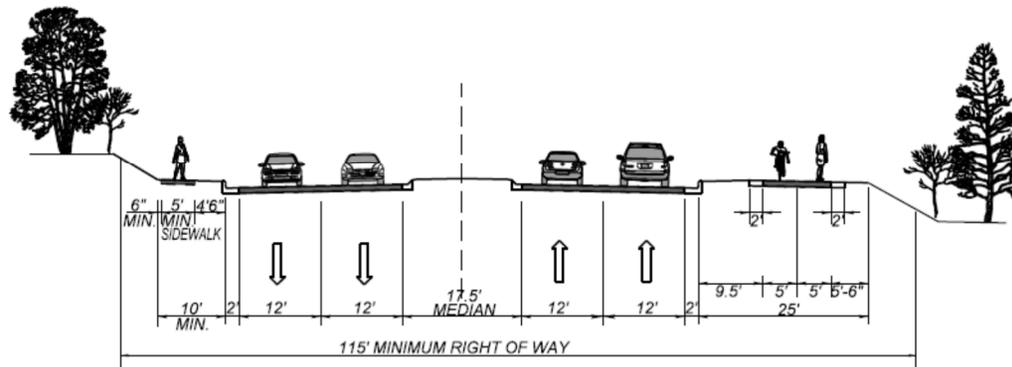
TYPICAL SECTION No. 4K
4 LANE DIVIDED (17.5' RAISED MEDIAN)
WITH PAVED SHOULDERS AND SIDEPATH



POSTED SPEED 35-55 MPH

4L – 4 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Sidewalk, and Sidepath, 35-45 mph

TYPICAL SECTION No. 4L
4 LANE DIVIDED (17.5' RAISED MEDIAN)
WITH CURB AND GUTTER, SIDEWALK AND SIDEPATH

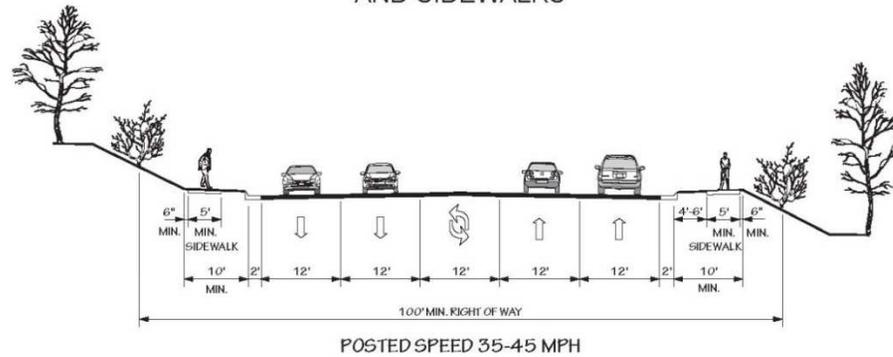


POSTED SPEED 35-45 MPH

5A – 4 Lane with Two Way Left Turn Lane, Curb & Gutter, and Sidewalks, 35-45 mph

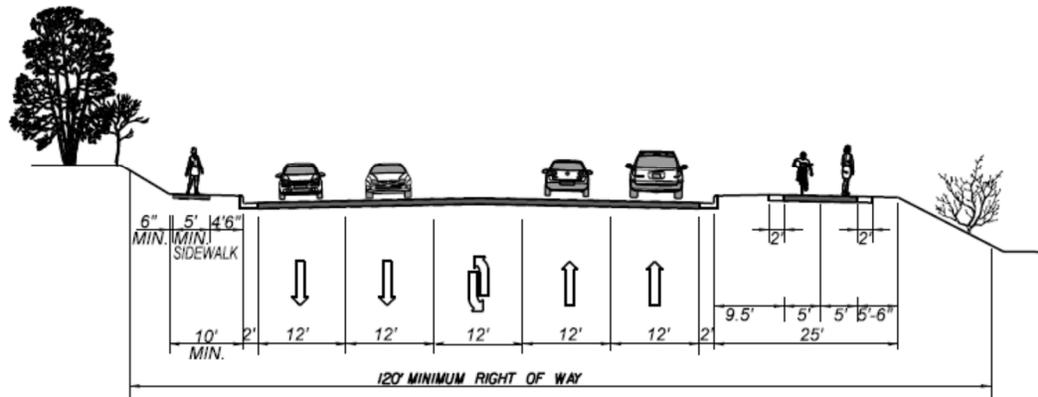
TYPICAL SECTION No. 5A

4 LANE WITH TWO WAY LEFT TURN LANE, CURB & GUTTER,
AND SIDEWALKS



5B – 4 Lane with Two Way Left Turn Lane, Curb & Gutter, Sidewalk, and Sidepath, 35-45 mph

TYPICAL SECTION No. 5B
4 LANE WITH TWO WAY LEFT TURN LANE,
CURB AND GUTTER, SIDEWALK AND SIDEPATH

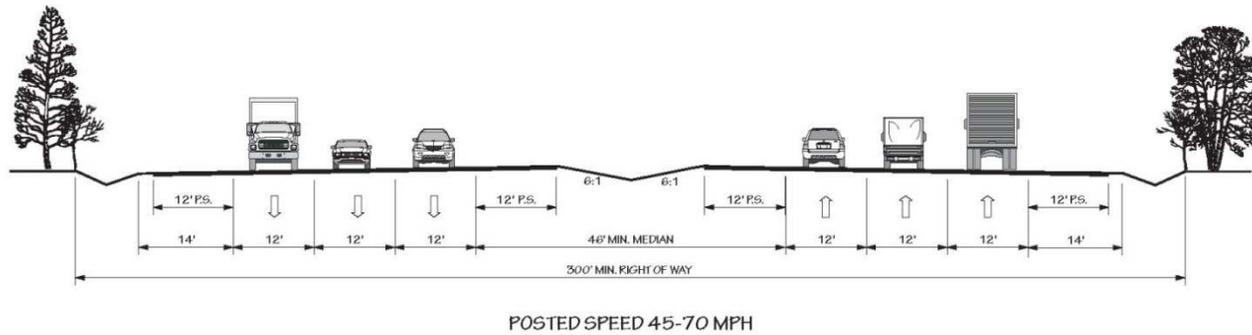


POSTED SPEED 35-45 MPH

6A – 6 Lane Divided (46' Depressed Median) with Paved Shoulders, 45-70 mph

TYPICAL SECTION No. 6A

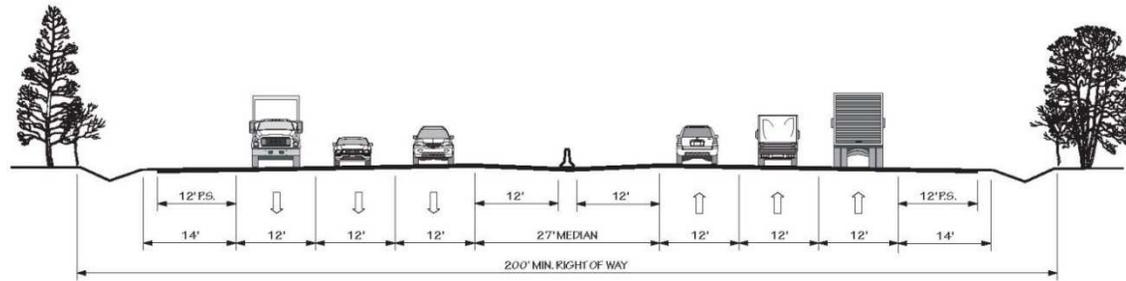
6 LANE DIVIDED (46' DEPRESSED MEDIAN) WITH PAVED SHOULDERS



6B – 6 Lane Divided (27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph

TYPICAL SECTION No. 6B

6 LANE DIVIDED (27' MEDIAN WITH JERSEY BARRIER)
WITH PAVED SHOULDERS

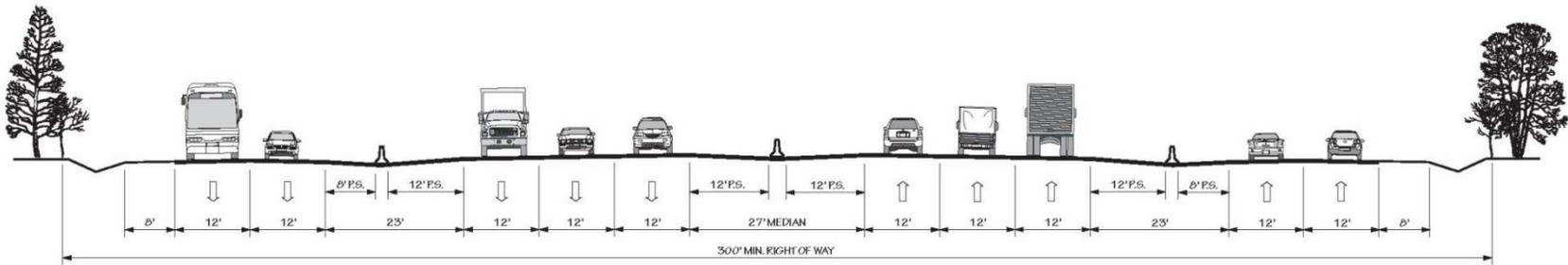


POSTED SPEED 55-70 MPH

6C – 6 Lane Freeway (27' Median with Jersey Barrier) with Paved Shoulders and 2 Lane One-Way Service Roads each side, 55-70mph

TYPICAL SECTION No. 6C

6 LANE FREEWAY (27' MEDIAN WITH JERSEY BARRIER) WITH PAVED SHOULDERS
AND 2 LANE ONE-WAY SERVICE ROADS EACH SIDE

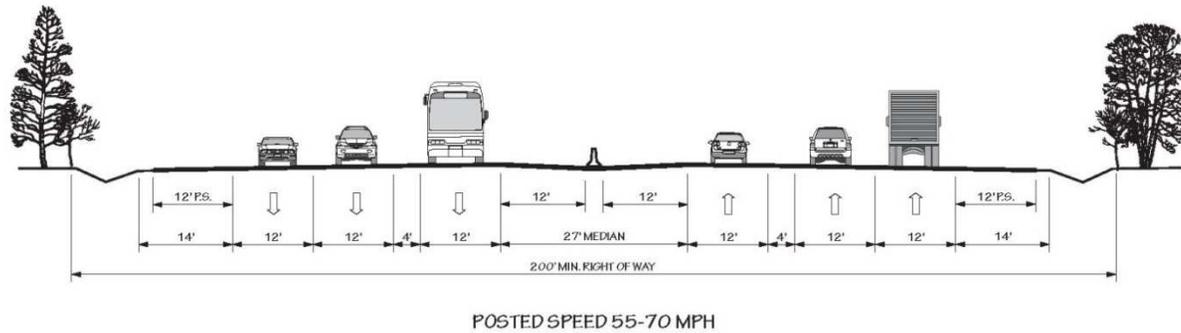


POSTED SPEED 55-70 MPH

6D – 6 Lane Freeway (4 General Purpose Lanes, 2 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph

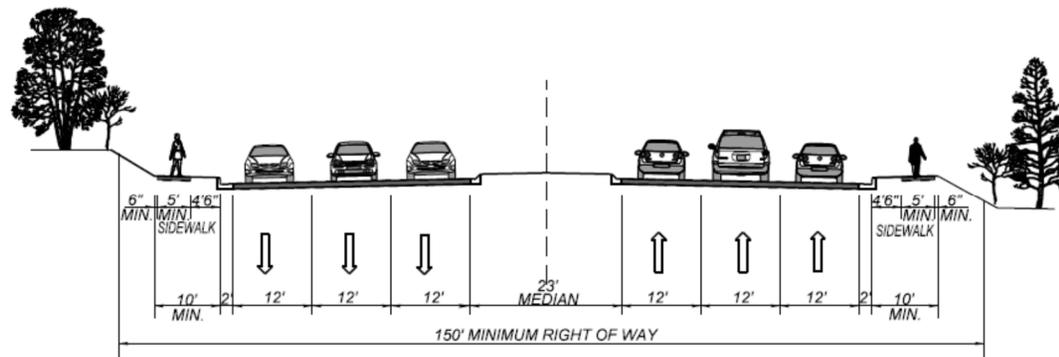
TYPICAL SECTION No. 6D

6 LANE FREEWAY (4 GENERAL PURPOSE LANES, 2 MANAGED LANES, AND 27' MEDIAN WITH JERSEY BARRIER) WITH PAVED SHOULDERS



6E – 6 Lane Divided (23' Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph

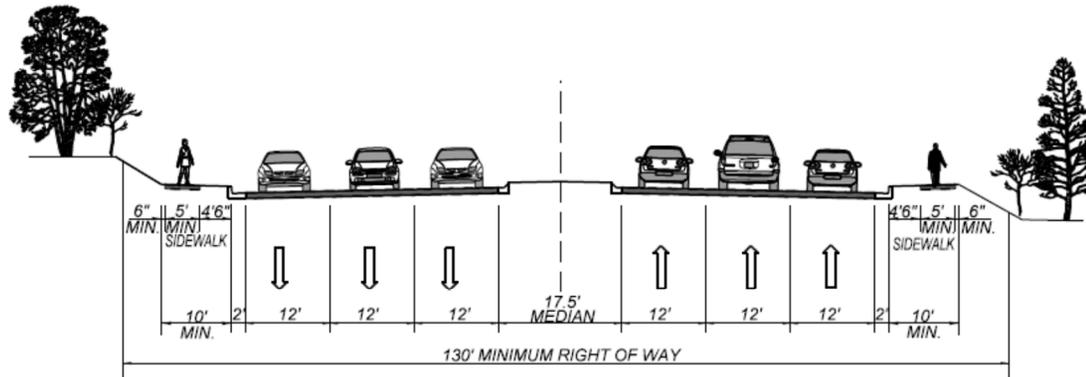
TYPICAL SECTION No. 6E
6 LANE DIVIDED (23' RAISED MEDIAN)
WITH CURB AND GUTTER, AND SIDEWALKS



POSTED SPEED 35-45 MPH

6F – 6 Lane Divided (17'-6" Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph

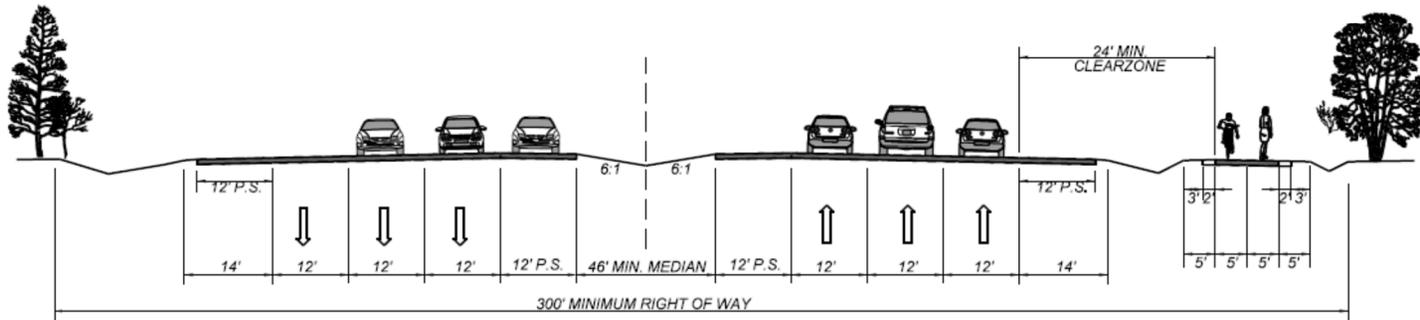
TYPICAL SECTION No. 6F
6 LANE DIVIDED (17.5' RAISED MEDIAN)
WITH CURB AND GUTTER AND SIDEWALKS



POSTED SPEED 35-45 MPH

6G – 6 Lane Divided (46' Depressed Median) with Paved Shoulders, and Sidepath, 45-70 mph

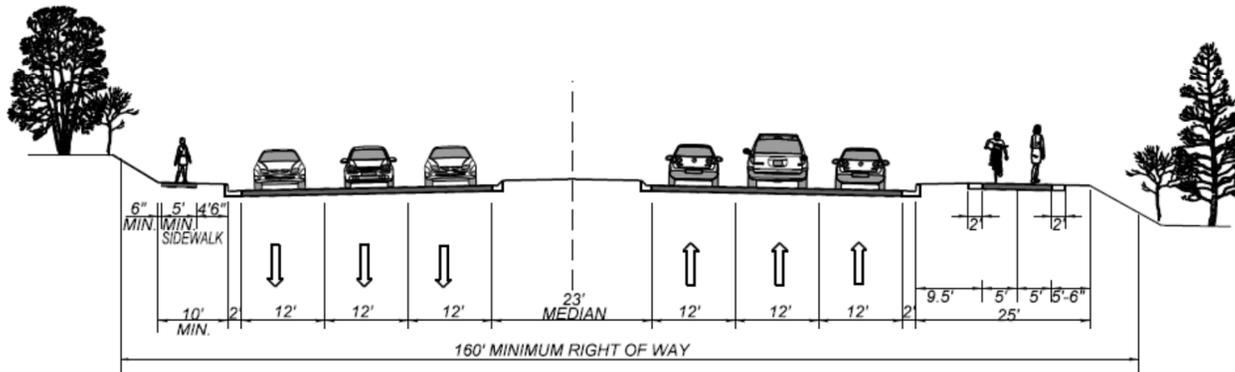
TYPICAL SECTION No. 6G
6 LANE DIVIDED (46' DEPRESSED MEDIAN)
WITH PAVED SHOULDERS AND SIDEPATH



POSTED SPEED 45-55 MPH

6H – 6 Lane Divided (23' Raised Median) with Curb & Gutter, Sidewalk, and Sidepath, 35-45 mph

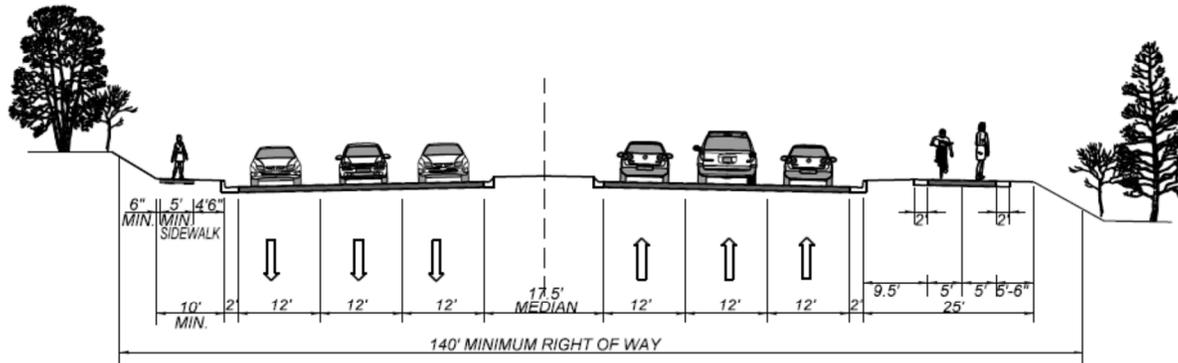
TYPICAL SECTION No. 6H
6 LANE DIVIDED (23' RAISED MEDIAN)
WITH CURB AND GUTTER, SIDEWALK AND SIDEPATH



POSTED SPEED 35-45 MPH

6I – 6 Lane Divided (17'-6" Raised Median) with Curb & Gutter, Sidewalk, and Sidepath, 35-45 mph

TYPICAL SECTION No. 6I
6 LANE DIVIDED (17.5' RAISED MEDIAN)
WITH CURB AND GUTTER, SIDEWALK AND SIDEPATHS

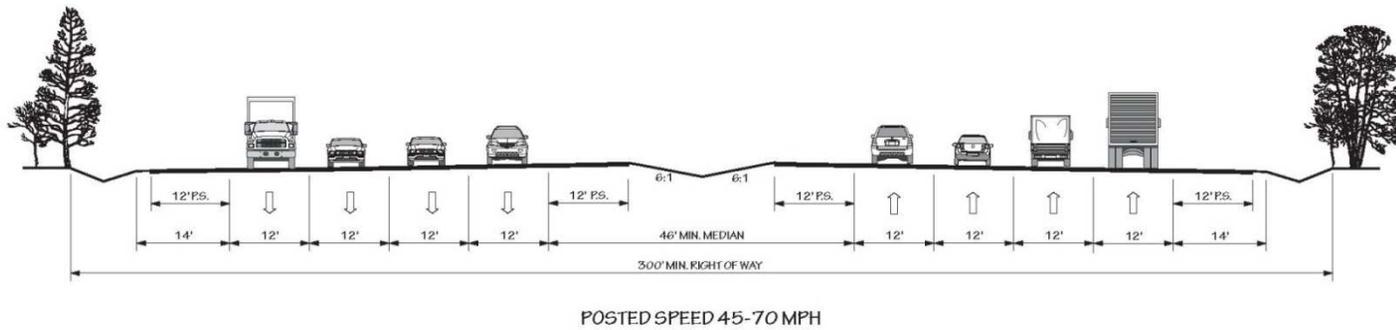


POSTED SPEED 35-45 MPH

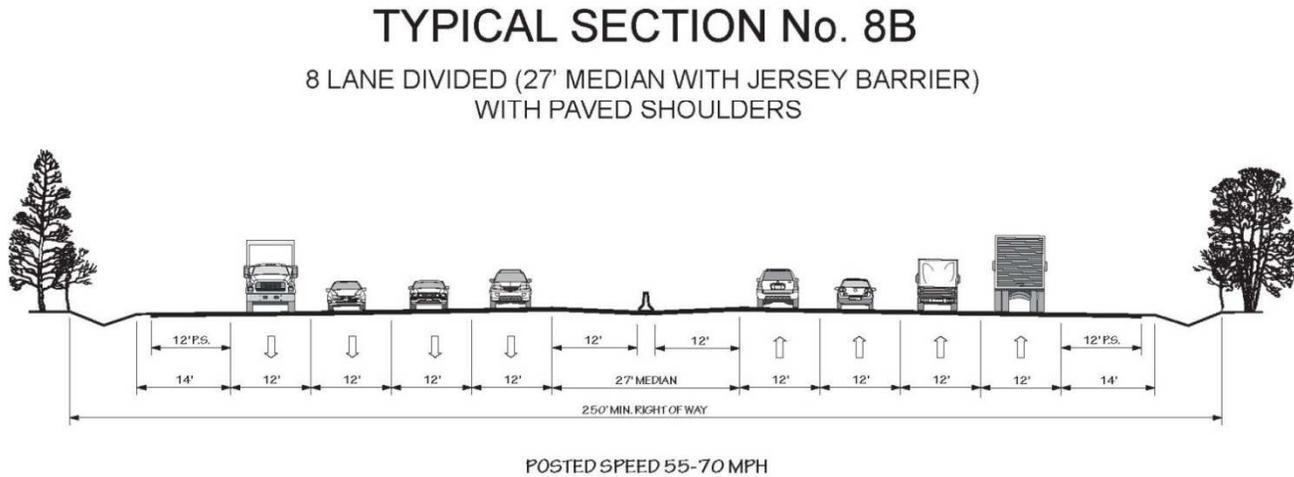
8A – 8 Lane Divided (46' Depressed Median) with Paved Shoulders, 45-70 mph

TYPICAL SECTION No. 8A

8 LANE DIVIDED (46' DEPRESSED MEDIAN) WITH PAVED SHOULDERS



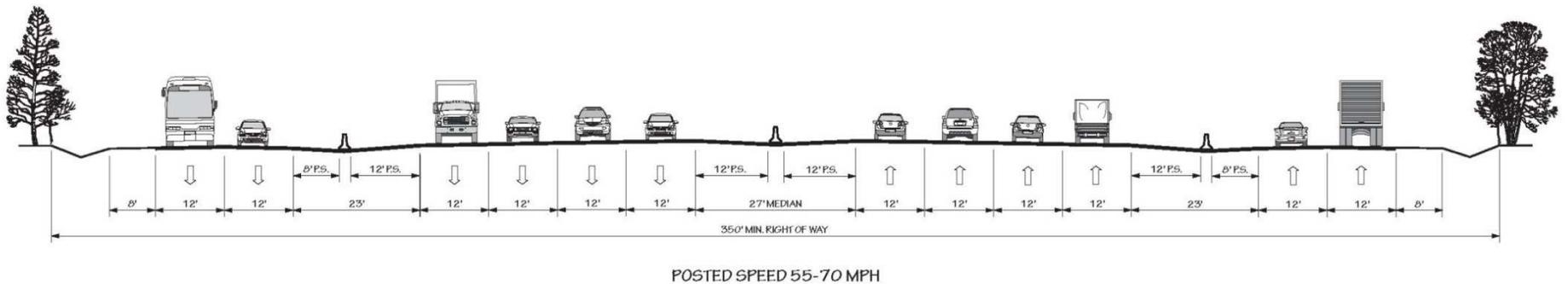
8B – 8 Lane Divided (27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph



8C – 8 Lane Freeway (27' Median with Jersey Barrier) with Paved Shoulders and 2 Lane One-Way Service Roads each side, 55-70mph

TYPICAL SECTION No. 8C

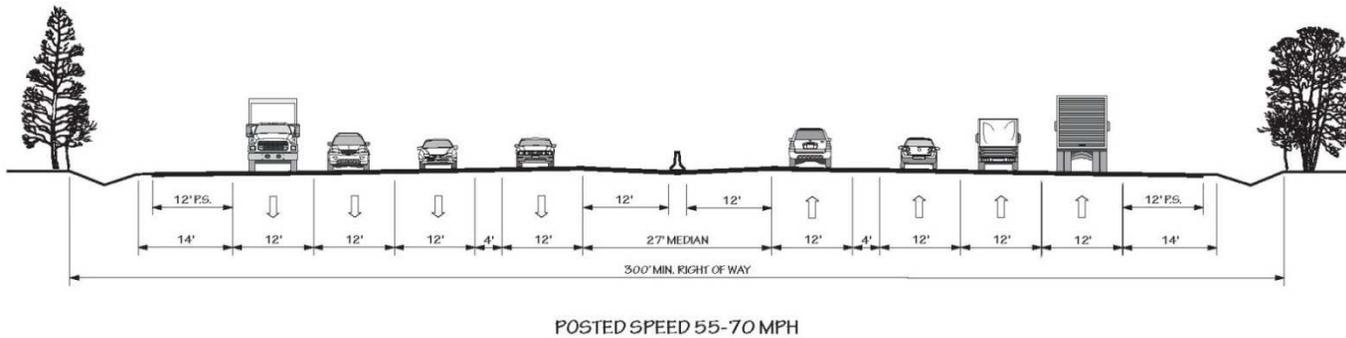
8 LANE FREEWAY (27' MEDIAN WITH JERSEY BARRIER) WITH PAVED SHOULDERS
AND 2 LANE ONE-WAY SERVICE ROADS EACH SIDE



8D – 8 Lane Freeway (6 General Purpose Lanes, 2 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph

TYPICAL SECTION No. 8D

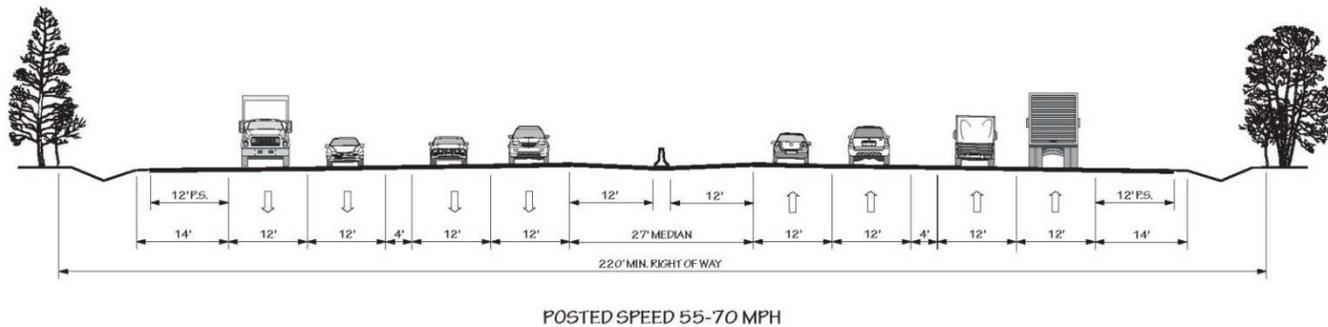
8 LANE FREEWAY (6 GENERAL PURPOSE LANES, 2 MANAGED LANES, AND 27' MEDIAN WITH JERSEY BARRIER) WITH PAVED SHOULDERS



8E – 8 Lane Freeway (4 General Purpose Lanes, 4 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph

TYPICAL SECTION No. 8E

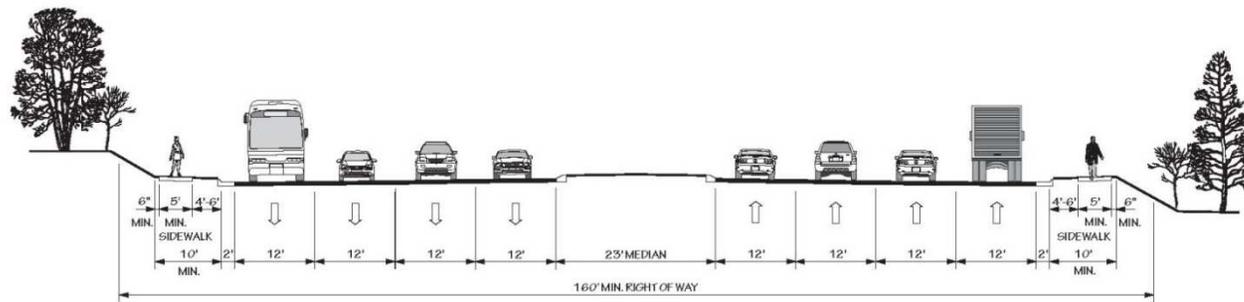
8 LANE FREEWAY (4 GENERAL PURPOSE LANES, 4 MANAGED LANES, AND 27' MEDIAN WITH JERSEY BARRIER) WITH PAVED SHOULDERS



8F – 8 Lane Divided (23' Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph

TYPICAL SECTION No. 8F

8 LANE DIVIDED (23' RAISED MEDIAN) WITH CURB & GUTTER,
AND SIDEWALKS

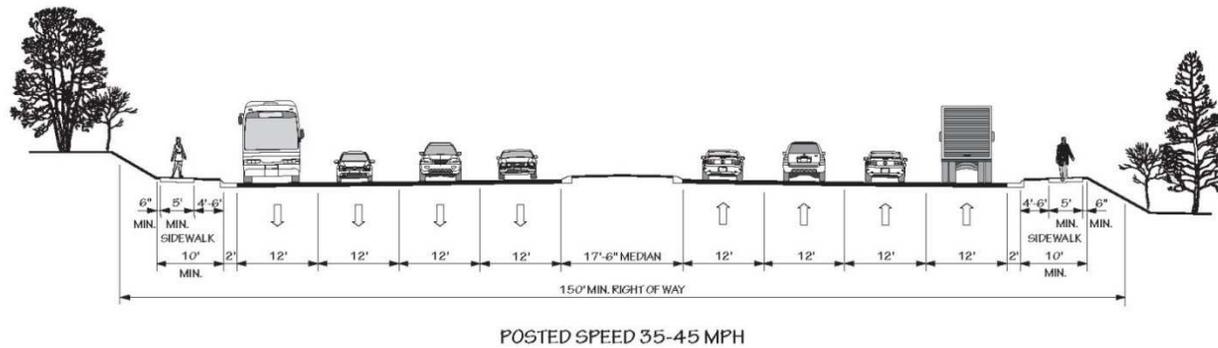


POSTED SPEED 35-45 MPH

8G – 8 Lane Divided (17'-6" Raised Median) with Curb & Gutter, and Sidewalks, 35-45 mph

TYPICAL SECTION No. 8G

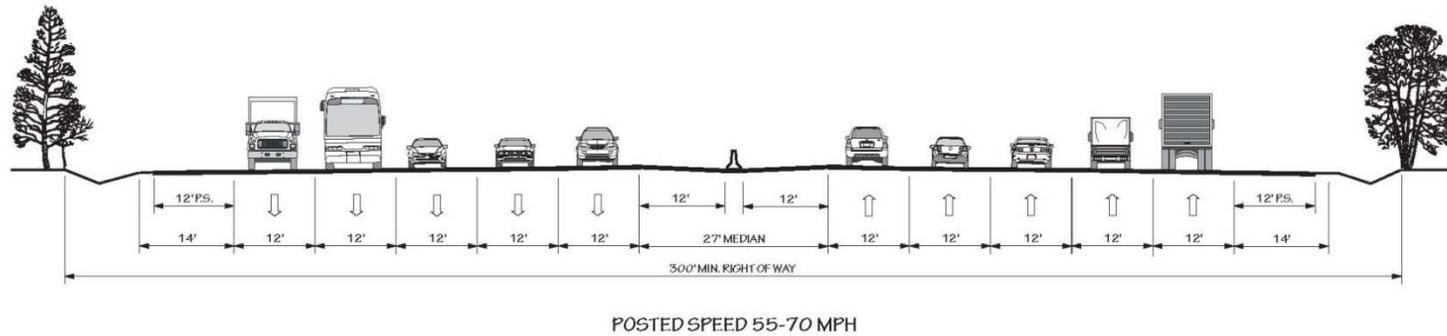
8 LANE DIVIDED (17'-6" RAISED MEDIAN) WITH CURB & GUTTER,
AND SIDEWALKS



10A – 10 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders, 55-70mph)

TYPICAL SECTION No. 10A

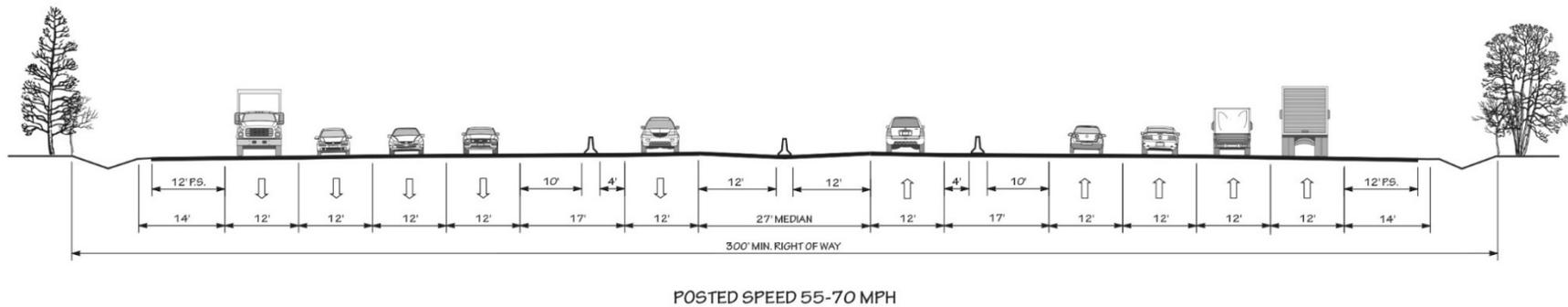
10 LANE DIVIDED (27' MEDIAN WITH JERSEY BARRIER)
WITH PAVED SHOULDERS



10B – 10 Lane Freeway (8 General Purpose Lanes, 2 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph

TYPICAL SECTION No. 10B

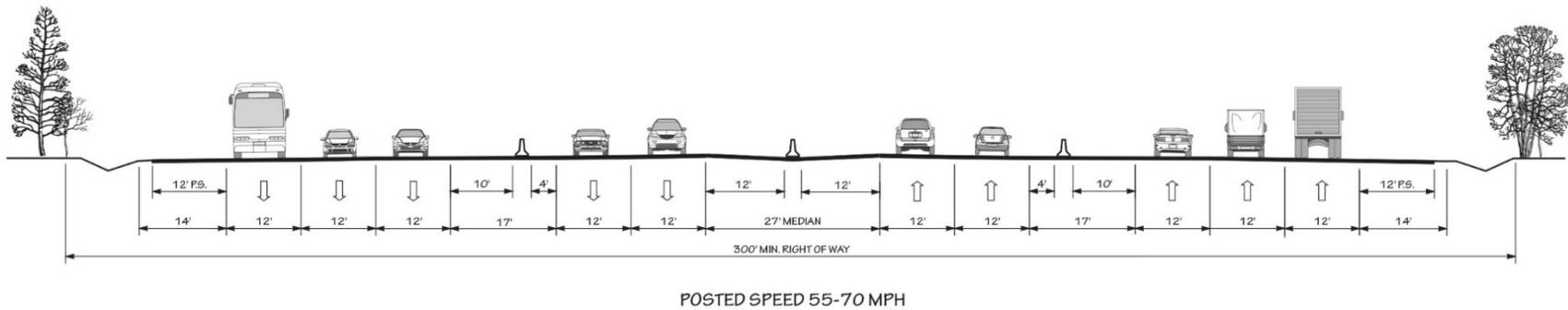
10 LANE FREEWAY (8 GENERAL PURPOSE LANES, 2 MANAGED LANES, AND 27' MEDIAN WITH JERSEY BARRIER) WITH PAVED SHOULDERS



10C – 10 Lane Freeway (6 General Purpose Lanes, 4 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph

TYPICAL SECTION No. 10C

10 LANE FREEWAY (6 GENERAL PURPOSE LANES, 4 MANAGED LANES, AND 27' MEDIAN WITH JERSEY BARRIER) WITH PAVED SHOULDERS



12A – 12 Lane Freeway (8 General Purpose Lanes, 4 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders, 55-70mph

TYPICAL SECTION No. 12A

12 LANE FREEWAY (8 GENERAL PURPOSE LANES, 4 MANAGED LANES, AND 27' MEDIAN WITH JERSEY BARRIER) WITH PAVED SHOULDERS

