

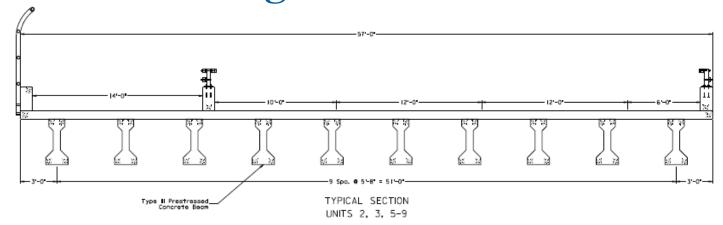
#### **US 17 Arterial Preservation Plan**

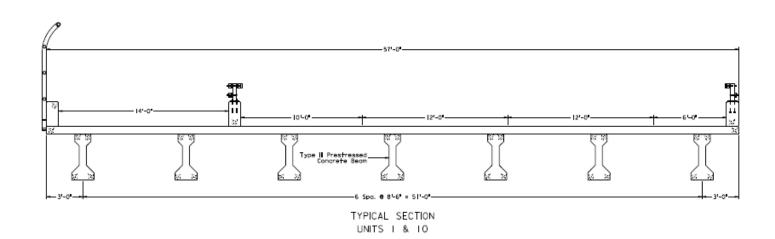
City of Suffolk Alternatives

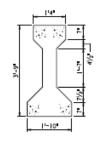




### Hazelwood Bridge w/ Shared Use Path





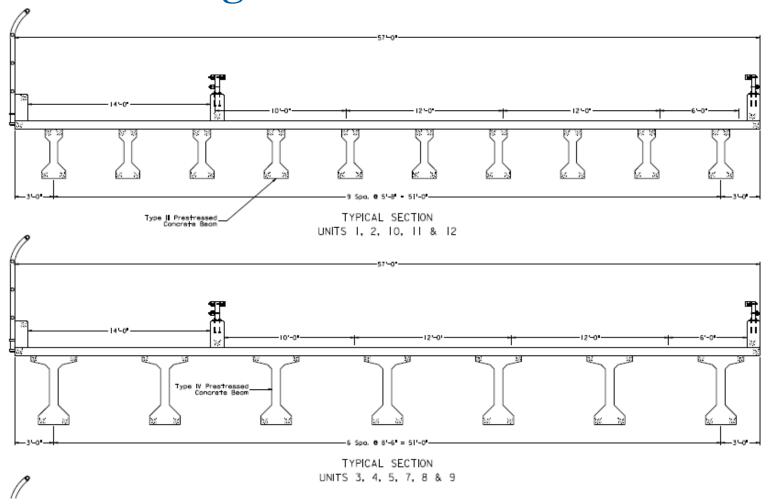


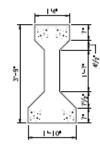
Type III Prestressed Concrete I Beam Scale: 3/16=1-0



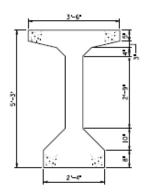


### Godwin Bridge w/ Shared Use Path





Type III Prestressed Concrete I Beam Scolo: 3/16'=1'-0'



Prestressed Concrete Bulb-T PCBT-45C Scole: 3/16'-1'-0'







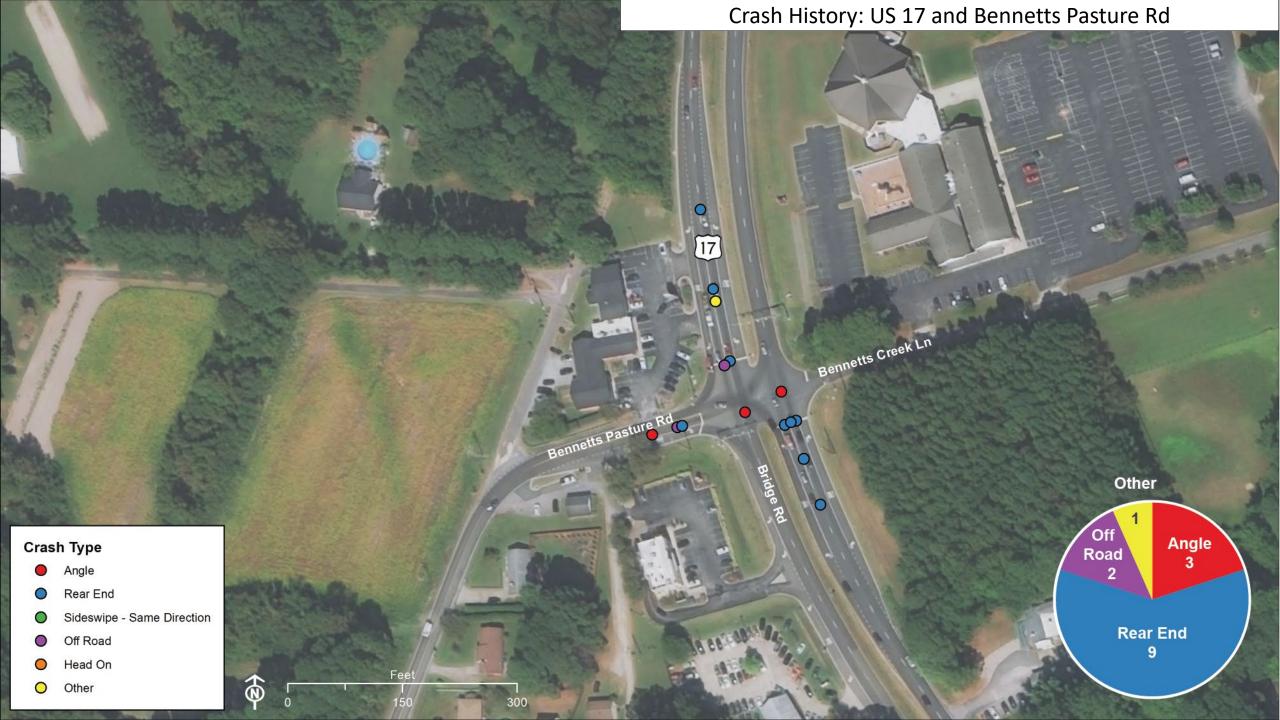
### Volumes – Bennetts Pasture to Lee Farm

		Bei	nnetts	Creek La	ne				Lee Fa	rm Lane		
	(3)	(1)	(6)	<b>€</b>	20	(20)	(0)	(0)	(0)	<b>€</b>	0	(0)
es	2	2	10	←	461	(1159)	0	0	0	←	580	(1300)
Volumes	Ų	1	<b>L</b>	t	100	(180)	Ų	Ţ	<b>L</b>	₹	144	(319)
Vo	(2)	0	Ĵ	J	1	<b>~</b>	(2)	0	Ĵ	Ĵ	1	<b>~</b>
2019	(950)	1036	$\rightarrow$	94	6	59	(982)	1101	$\rightarrow$	2	0	359
70	(170)	95	7	(161)	(2)	(58)	(30)	4	7	(59)	(0)	(245)
	Bennetts Pasture Road							Lee Fa	rm Lane			

		Bei	nnetts	Creek La	ne				Lee Fai	rm Lane		
	(3)	(1)	(6)	<b>€</b>	20	(20)	(0)	(0)	(0)	t	0	(0)
es	2	2	10	←	1153	(2270)	0	0	0	←	1311	(2468)
Volumes	Ų	1	4	t	141	(253)	Ų	Ţ	4	t	183	(406)
Vol	(2)	0	Ĵ	ţ	1	<b>~</b>	(2)	0	Ĵ	Ĵ	1	4
2045	(2025)	1797	$\rightarrow$	133	6	83	(2072)	1884	$\rightarrow$	3	0	456
20	(239)	134	7	(227)	(2)	(82)	(39)	6	7	(75)	(0)	(312)
		Ben	netts P	asture R	oad				Lee Fai	rm Lane		









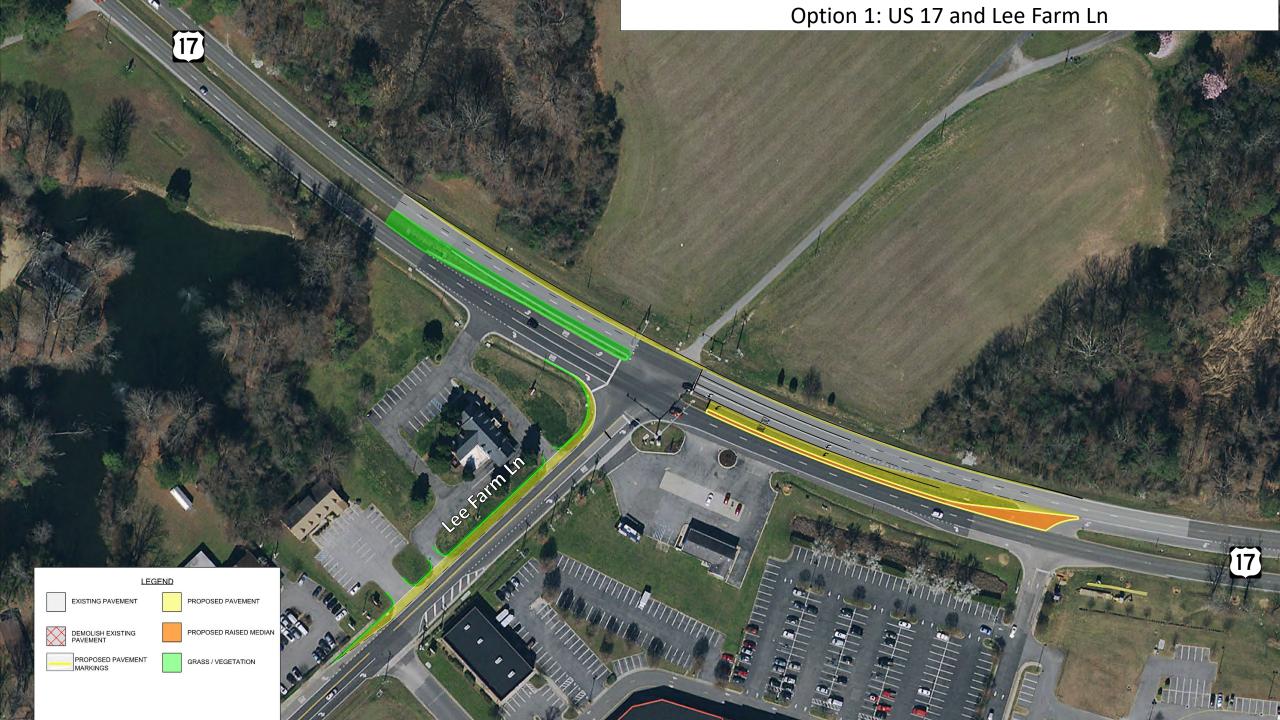
## **Preliminary Estimates**

	Preliminary Estimate Ranges									
Scenario	Construction Estimate	PE Estimate	Estimated R/W Impacts	Overall No Build Intersection Operation (PM)	Overall Build Intersection Operation (PM)	Expected Total Crash Reduction				
Bennetts Pasture Road	\$1,908,000	\$600,000	8,000 - 9,000 SF	44.6 - D	37.5 - D	3%				
Lee Farm Lane	\$2,629,000	\$600,000	12,000 - 14,000 SF	30.1 - C	21.3 - C	3%				











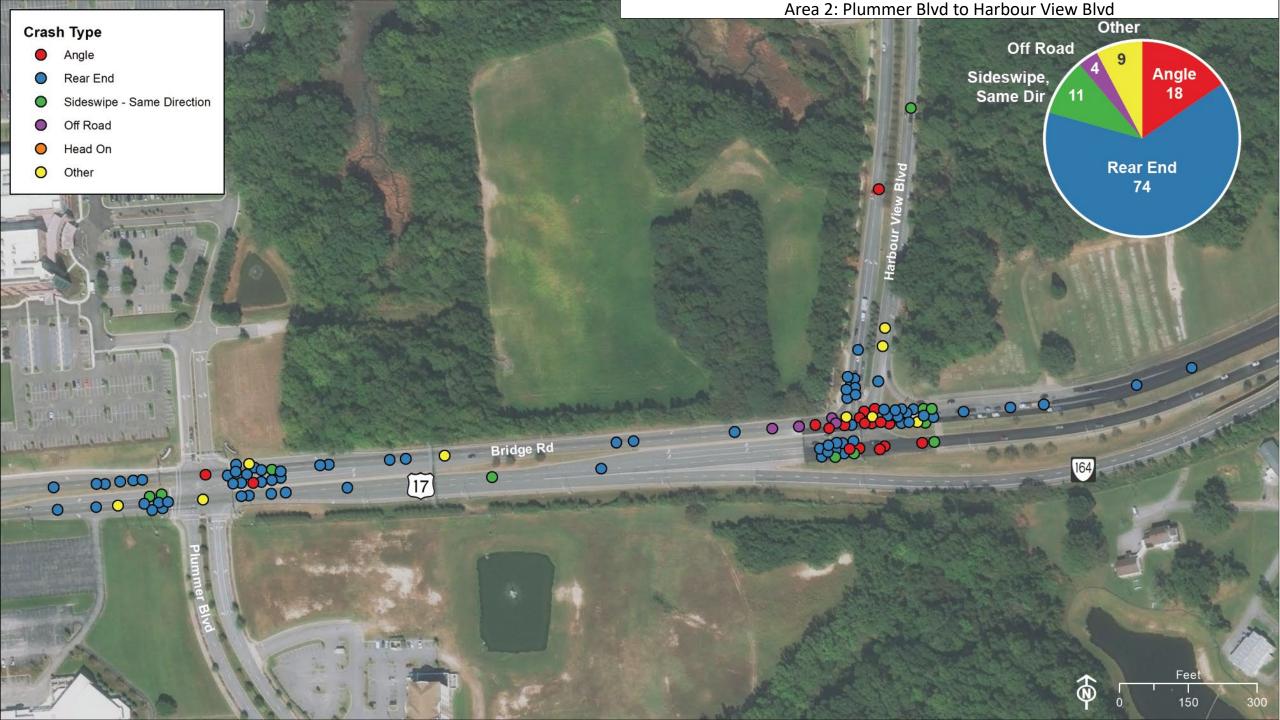
### Volumes – Plummer to Harbour View

		Plu	ummer	Bouleva	ard								Hark	our Vie	w Boul	evard	
	(11)	(1)	(47)	t	50	(40)						(585)		(610)	t	679	(524)
es	4	0	28	←	1000	(2231)				←	1073 (2371)	199		345	<b>←</b>	874	(1786)
Volumes	ļ	1	4	t	23	(100)						Ų		<b>\</b>	<b>L</b>	0	(0)
	(13)	21	Ĵ	Ţ	1	<b>~</b>						(304)	475	Ĵ			
2019	(1609)	1987	$\rightarrow$	2	1	62	(1162)	1187	$\rightarrow$			(858)	712	$\rightarrow$			
7	(7)	4	7	(4)	(1)	(39)	(533)	890	7								
		Plu	ummer	Bouleva	ard			Exit to	I-664N	& Rout	e 164E						

		Plu	ummer	Bouleva	ard									Harb	our Vie	w Boul	evard	
	(14)	(2)	(60)	t	64	(51)							(901)		(775)	t	863	(666)
es	6	0	36	←	1873	(3851)				<b>←</b>	1967	(4029)	307		439	<b>←</b>	1660	(3128)
Volumes	Ų	1	4	ţ	30	(127)							Ų		<b>(</b>	¢	0	
Vo	(17)	27	Ĵ	ţ	1	4							(387)	604	Ĵ			
2045	(2795)	3262	$\rightarrow$	3	2	79	(2031)	2006	$\rightarrow$				(1644)	1402	$\rightarrow$			
70	(9)	6	7	(6)	(2)	(50)	(874)	1371	7									
							Exit to I-66	54N & R	oute 16	4E								
		Plu	ummer	Bouleva	ard			Exit to	I-664N	& Rout	e 164E			3	,	-	4	







### **Construction Estimates**

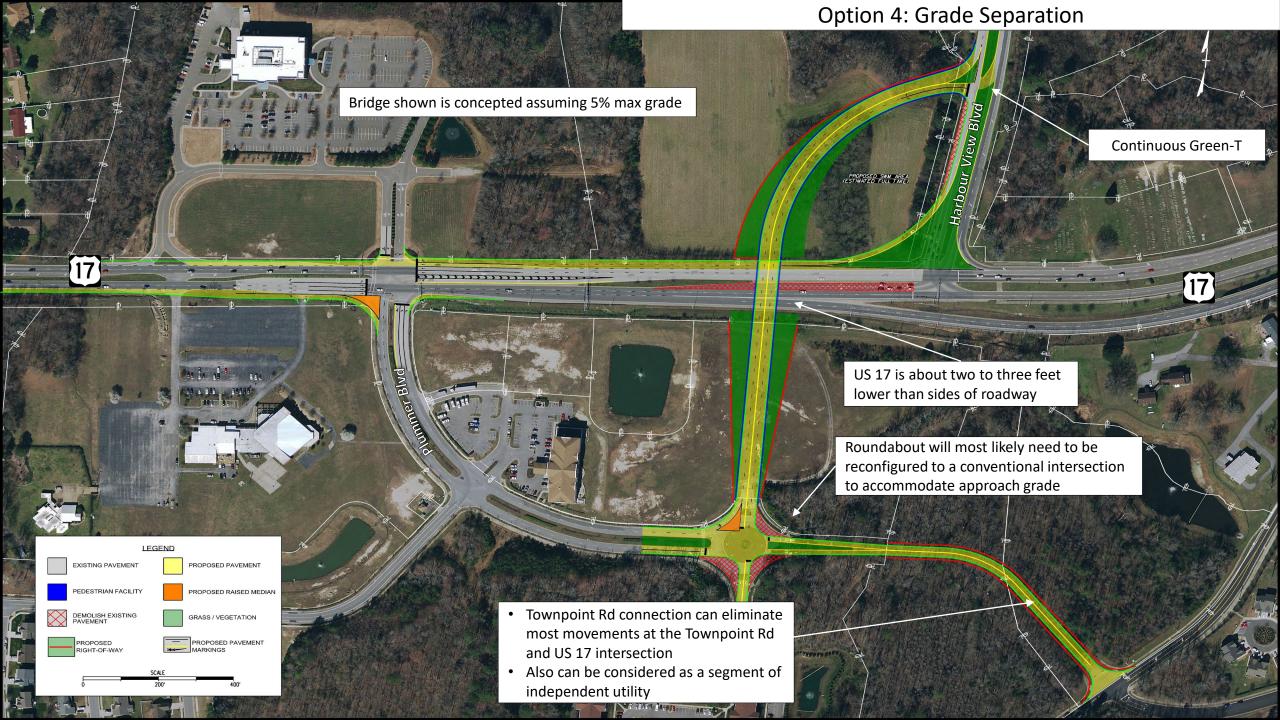
		Preliminary Estimate F	Range		
Base Cost for Widening SMART SCALE APP 7064	Short-Term	Alternative 1 Grade Seperation	Alternative 2 SB US 17 Left-turn Flyover	Alternative 3 Center Turn Overpass	Alternative 4 Center Turn Overpass w/ SR 164 Connection
Cost (Not Including Right-of-Way)	\$10.0M - \$11.0M	\$38.0M - \$41.0M	\$27.0M - \$29.0M	\$35.0M - \$39.0M	\$40.0M - \$45.0M
Right-of-Way Impact	115,000 - 121,000 SF	510,000 - 560,000 SF	330,000 - 515,000 SF	110,000 -130,000 SF	110,000 -130,000 SF
Overall Intersection Operation (PM) at Harbour View Blvd	87.9 - F	5.4 - A	51.6 - D	6.2 - A	6.2 - A
Overall Intersection Operation (PM) at Plummer Blvd	14.0 - B	34.5 - C	15.8 - B	15.9 - B	15.9 - B
Expected Total Crash Reduction	3%	50%	35%	35%	35%

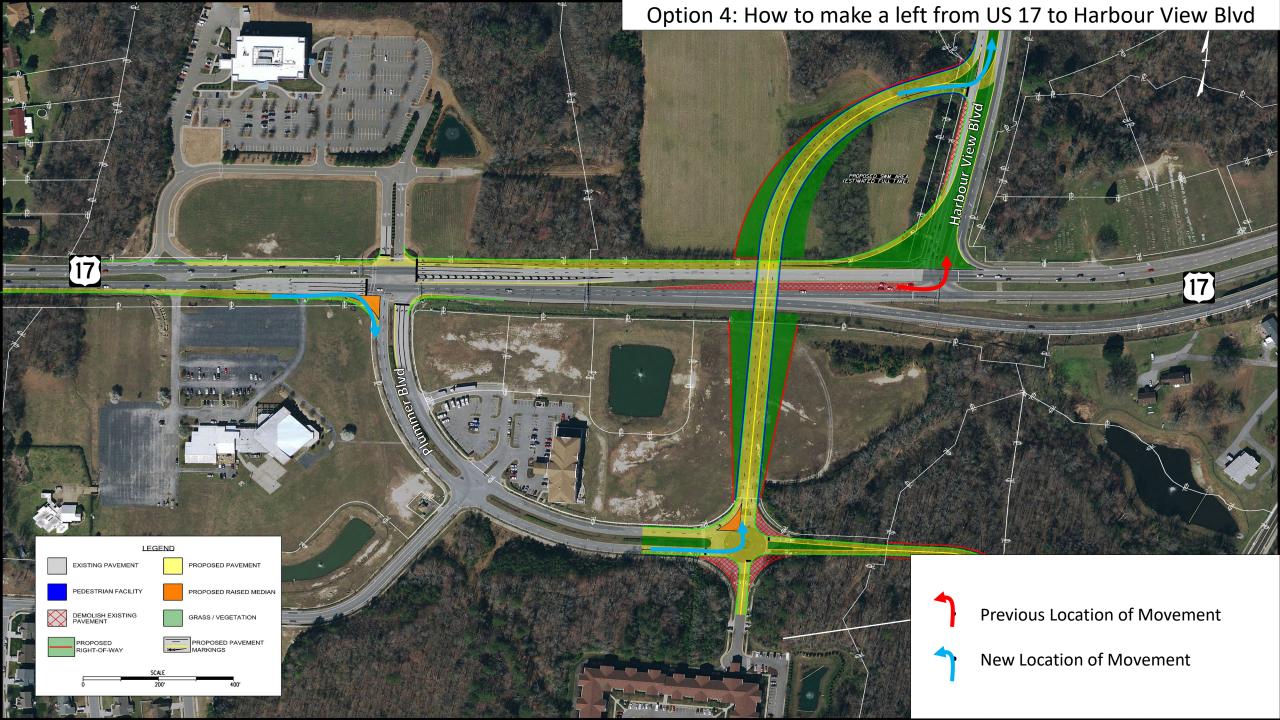
All alternatives could be built following the planned widening

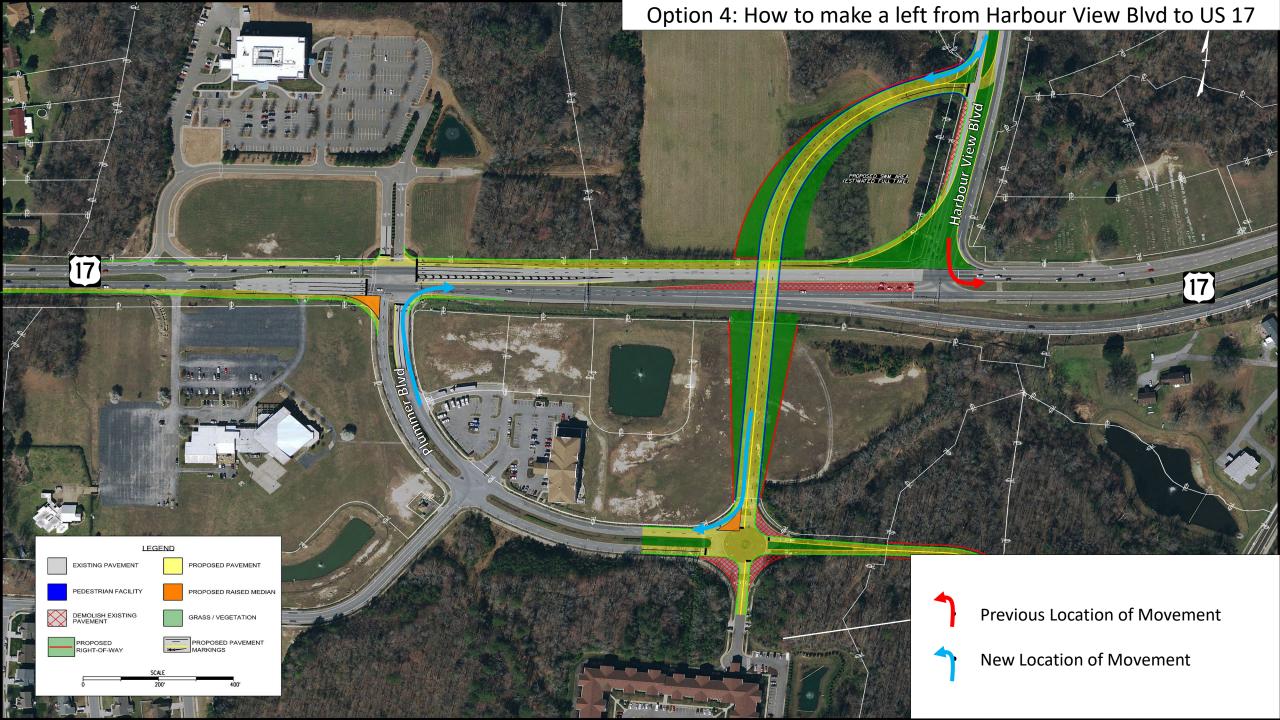






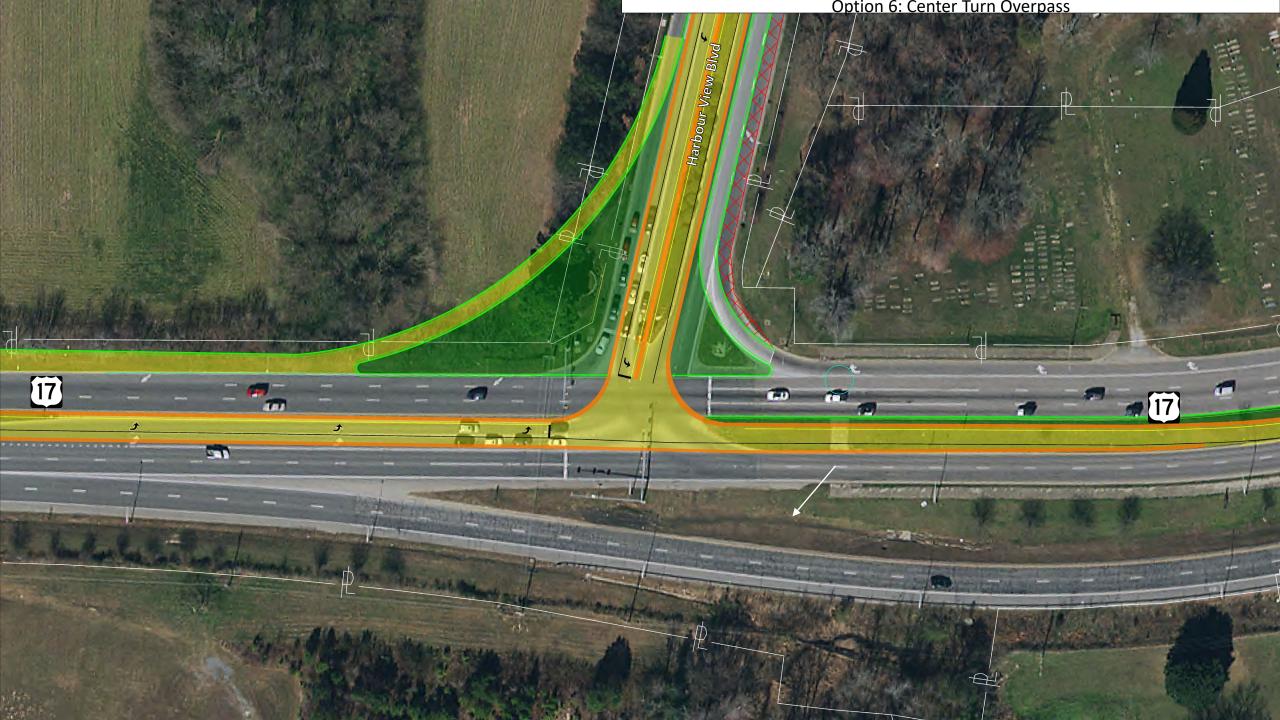
















# Volumes – College Dr

			College	e Drive		
	(549)	(7)	(513)	t	347	(557)
es	360	9	262	<b></b>	380	(632)
2019 Volumes	ļ	1	<b>,</b>	<b>\</b>	9	(12)
Vol	(530)	454	Ţ	ţ	1	4
119	(558)	560	$\rightarrow$	6	3	8
20	(16)	16	7	(7)	(13)	(9)
			Lynn	Drive		

			College	e Drive						
	(846)	(7)	(791)	t	535	(858)				
es	555	9	404	<b></b>	525	(894)				
2045 Volumes	Ų	1	<b>,</b>	Ç	9	(12)				
Vol	(817)	700	Ţ	ţ	1	<b>~</b>				
45	(1128)	932	$\rightarrow$	6	3	8				
20	(16)	16	7	(7)	(13)	(9)				
						,				
	Lynn Drive									







### **Construction Estimates**

	Const	ruction Estimate Range								
Scenario	No Build	Option 1 Dual Lefts	Option 5 Dual Lefts/Widen Us 17/College Dr Triple-Lefts	Partial Quadrant Roadway						
Construction Estimate	-	\$3,400,000	\$4,915,000	\$6.0M to \$7.5M						
PE Estimate	-	\$600,000	\$820,000	\$900K - \$1.1M						
RW Square Footage	-	<3,000 SF	<25,000 SF	<35,000 SF						
Overall Intersection Operation	95.5 - F	65.2 - E	53.5 - D	57.2 - E						
Expected Total Crash Reduction	-	3% -15%	3% - 15%	35%						
Southbound U	Southbound US 17 Queue lenghs are lower under the Partial Quadrant Roadway configuration									

P	M Weave	Analysis								
Scenario	Weave Type	Desnsity (pc/mi/ln	LOS	Speed (MPH)						
Existing	Two- sided	12.2	В	48.0						
No Build	Two- sided	22.9	С	45.6						
Dual Lefts	Two- sided	22.9	С	45.6						
Partial Quadrant Roadway	One- sided	25.4	С	41.1						
H	HCS Weaving Module									

