

E Line Corridor Study

Appendix A

October 2019

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E Line Corridor Study – Appendix A | 1





Table 1: Proposed Station Suitability Analysis

Station #	Direction	Mainline Corridor Street	Cross Street(s)	Station Location	Existing bus stop? (Y/N)	On Street Parking (Y/N) Bike Lanes? (Y/N)	Existing Intersection Controls	Existing sidewalk width (X') Existing width to ROW (if different than sidewalk width) (X')	ROW Impacts? (Y/N	Width available for BRT station	Length available for platform (X')	Bumpout feasible? (Y/N)	Sufficient width available for curbside platform (Y/N)	Adjacent property type (Residential/ Commercial)	Feasibility? (Suitable, Candidate, Unsuitable)	Notes
	NB	Southdale Transit Center Southdale Transit Center		Farside Nearside												
1		Southdale Transit Center		Midblock												
	67	Southdale Transit Center		Farside												
	2B	Southdale Transit Center		Midblock												
		Xerxes Ave	64th St	Farside	N	N 1	N 2-way stop on 64th	7.7 10.4		N 18	279.5	Y	N	Church	Suitab	le Potential conflict with church sign.
	NB	Xerxes Ave	64th St	Nearside	Y	N 1	N 2-way stop on 64th	7.7 10.5		N 19.4	58.4	Y	N	Residential	Unsuitab	le Not enough available width for BRT station.
2		Xerxes Ave	64th St	Midblock	N/A	N/A N//	A N/A	N/A N/A	N/A Rotoptially	A N/A	675.4	N/A	N/A	N/A Residential	/N Suitab	
	SB	Xerxes Ave	64th St	Nearside	Y	N N	N 2-way stop on 64th	5.2 4.8-13.5	Potentially	y 17.3	443	Y	N	Residential	Suitab	le fire to do control in minute, Station would fit north of hydrant. Must be bump out - minimal existing width to ROW.
		Xerxes Ave	64th St	Midblock	N/A	N/A N//	A N/A	N/A N/A	N/	A N/A	N/A	N/A	N/A	N/A	N/	
	NB	Xerxes Ave	60th St	Farside	Y	Y	N Full Signal	4.8 10.4		N 18.7 N 19.8	123.4	Y	N	Residential	Suitab	le intersection was recently reconstructed and a signal was put in. Big I ree in platform area
3		Xerxes Ave	60th St	Midblock	N/A	N/A N//	A N/A	N/A N/A	N/	A N/A	N/A	N/A	N/A	N/A	N/	A
5	CD	Xerxes Ave	60th St	Farside	Y	Y	N Full Signal	6.1 8.3		N 16.4 :I	N19CB17:N19	Y	N	Residential	Suitab	e Small retaining wall built adjacent to sidewalk. May need to reconstruct if BRT station is put in
	зD	Xerxes Ave	60th St	Midblock	N/A	N/A N/A	A N/A	N/A N/A	N/	A N/A	N/A	N/A	N/A	N/A	Suitab N/	
		Xerxes Ave	56th St	Farside	N	Y	N 4-way stop	9.6 11		N 18	85.5	Y	N	Commercial	Suitab	le Patio for Pizzeria Lola and Café Vin stick out of ROW on sidewalk, but plenty of space for bumpout platform
	NB	Xerxes Ave	56th St	Nearside	Y	Y 1	A 4-way stop	9.9 10.9	N/	N 17.8	87	Y	N	Commercial	Suitab	
4		Xerxes Ave	56th St	Farside	N/A N	Y Y	N 4-way stop	7.8 7.8	11/2	N 15.3	376	Y	N/P	Residential	Suitab	A le Not enough available width for BRT station. B17:N19
	SB	Xerxes Ave	56th St	Nearside	Y	Y	N 4-way stop	6.8 8		N 16.7	592	Y	N	Residential	Suitab	e Has to be bumpout - retaining wall by adjacent property
		Xerxes Ave	56th St 53rd St	Midblock Farside	N/A	N/A N//	A N/A 2-way stop op 53rd	7.7 N/A 7.7 15.5	N/.	A N/A 22.1	/01.3	N/A	N/A	N/A Residential	/N Suitab	A Potential gradion issues
	NB	Xerxes Ave	53rd St	Nearside	Y	Y	N 2-way stop on 53rd	6.7 14.6		N 14.6	81.2	Y		Residential	Suitab	Retaining wall directly adjacent to sidewalk. Need better dimension info to determine if platform will fit
5		Xerxes Ave	53rd St	Midblock	N/A	Y	N N/A	N/A N/A	N/.	A N/A	N/A	N/A	N/A	N/A	N/	
	SB	Xerxes Ave	53rd St 53rd St	Farside	N	Y	2-way stop on 53rd 2-way stop on 53rd	7.2 8.4		N 15.3 N 15.3	406.7	Y	N	Residential Residential	Candidat	le Potential grading issues. Must be bump out le Fire Hydrant at intersection. Station would fit porth of hydrant. Must be bump out
		Xerxes Ave	53rd St	Midblock	N/A	Ŷ	N N/A	N/A N/A	N/	A N/A	N/A	N/A	N/A	N/A	N/	
	ND	Xerxes Ave	50th St	Farside	N	Y	N Full Signal	12.1 12.1		N 19.9	32.7	Y)	Commercial	Unsuitab	le Only feasible if you close a driveway access to the north of property on corner
	IND	Xerxes Ave	50th St	Midblock	N	Y	N N/A	10.2 12		N 23.6	34.3	ĭ	1	Commercial	Suitab	E loo nony uneways any round tred to top to any sunteen rengin or plantin E Mobilos is easible to the north and south
0		Xerxes Ave	50th St	Farside	N	Y	N Full Signal	9.5 7.3		N 15.5	232.5	Y	١	(Commercial	Suitab	e Would need to do a bumpout as the businesses use the sidewalk but 17+ feet and parking make this work
	SB	Xerxes Ave	50th St	Nearside	Y N/A	Y N/A	N Full Signal	7.3 7.3 N/A	NI/	N 15.2	60.5	Y N/A	N/A	Mixed Use	Candidat	te Very tight but there is 60° available. Awnings also stick out from buildings so not an ideal and has to be bumpout
		Xerxes Ave	47th St	Farside	N	Y Y	N 2-way stop on 47th	7.7 13.1		N 20.2	122.9	Y	107	Residential	Suitab	le No Stop control
	NB	Xerxes Ave	47th St	Nearside	Y	Y	N 2-way stop on 47th	7.2 12.3		N 20.5	46.3	N)	Residential	Unsuitab	Ponly 46' for a platform before a driveway and is only access for residential property
7		Xerxes Ave	47th St 47th St	Farside	N/A	N/A N//	A N/A 2-way stop on 47th	7.1 7.1	N/.	A N/A N 15.5	N/A 192.4	N/A Y	N/P	Residential	N/ Suitab	
	SB	Xerxes Ave	47th St	Nearside	Y	Y	N 2-way stop on 47th	8.4 8.4		N 15.8	57.9	Ŷ	N	Residential	Unsuitab	le No Stop control
		Xerxes Ave	47th St	Midblock	N/A	N/A N//	A N/A	N/A N/A	N/	A N/A	N/A	N/A	N/A	N/A	N/	A A Annual and the Dumum Id and a the state of MID Challen (Id Annual Annual Add Challen)
	EB	66th St	Barrie Rd	Nearside	N/A	N/A N/A	A Stop sign for SB Barrie	N/A N/A	N/	A N/A	N/A N/A	N/A	N/A	N/A N/A	N/	A Assuming the bus would only stop at WB station if it routes on 66th St.
8		66th St	Barrie Rd	Midblock	N/A	N/A N//	A N/A	N/A N/A	N/	A N/A	N/A	N/A	N/A	N/A	N/	A Assuming the Bus would only stop at WB Station if it routes on 66th St
-	WB	66th St 66th St	Barrie Rd Barrie Rd	Farside	N	N I	N Stop sign for SB Barrie Stop sign for SB Barrie	9.5 17.8		N 17.8	24.2	Maybe	<u>`</u>	Commercial	Unsuitab	le Driveway too close le No Singal and to do a bumpout you would close furthest north lane. (there are 3 lanes today)
		66th St	Barrie Rd	Midblock	N	N	N None	9.5 17.8		N 17.8	133.2	Maybe	Ì	(Commercial	Suitab	le There is adequate room past driveway for a station
	FR	65th St	Fairview Hospital	Farside	N/A	N/A N//	A N/A	N/A N/A	N/.	A N/A	N/A	N/A	N/A	N/A	N/	
0	20	65th St	Fairview Hospital	Midblock	Y	N N	N None	5.9 8.4		N 16.8	121.5	Y	N	Commercial	Suitab	le Needs to be midblock and a bumpout w/out taking ROW. If midblock bumpout is acceptable this is fine.
7	14/0	65th St	Fairview Hospital	Farside	N/A	N/A N//	A N/A	N/A N/A	N/.	A N/A	N/A	N/A	N/A	N/A	N/	
	VVD	65th St	Fairview Hospital	Midblock	N/A Y	N/A N//	N None	7.1 10.5	IN/	N 17.5	461.1	N/A Y	Maybe	Commercial	Suitab	A le Needs to be midblock. Need to evaluate ROW as existing shelter seems to be outside roadway ROW
		France Ave	62nd St	Farside	N	Y	N 1-way stop on 62nd	0 18.3		N 18.3	40	Y)	(Residential	Unsuitab	le Too many driveways
	NB	France Ave	62nd St 62nd St	Midblock	N	Y	N 1-way stop on 62nd N N/A	0 36.4		N 36.4 N 40.5	44.3 89.4	Y	1	Residential	Unsuitab	le loo many driveways le Too many driveways
10		France Ave	62nd St	Farside	N	Y	N 1-way stop on 62nd	5.8 8.9		N 12.8	131.4	Y	١	(Residential	Suitab	le Sidewalk to house will need to be removed or relocated
	SB	France Ave	62nd St 62nd St	Nearside Midblock	Y N/A	Y N/A N/A	A 1-way stop on 62nd	4.4 8.2 N/A N/A	N/	N 12.9	58.7 N/A	Y N/A	N/A	Residential N/A	Unsuitab N/	le Drue way too close A Too many druiteways
		France Ave	60th St	Farside	N	Y	N 1-way stop on east W 60th	0 13.5		N 16.8	70.3	Y)	(Residential	Candidat	te Driveway may be too close
	NB	France Ave	60th St	Nearside	Y	Y	N 1-way stop on east W 60th	0 12.7	N/	N 17.6	160.6	Y		Residential	Suitab	le No existing sidewalk
11		France Ave	60th St	Farside	N/A N	N/A N//	A N/A N -way stop on west W 60th	5.7 8.3	IN/	N 16.2	146	N/A Y	N/P	Residential	Suitab	a loo many onveways Be Retaining wall directly adjacent to sidewalk. Need better dimension info to determine if platform will fit
	SB	France Ave	60th St	Nearside	Y	Y	N -way stop on west W 60th	6.5 8.4		N 15.3	169.6	Y	N	Residential	Suitab	le Retaining wall directly adjacent to sidewalk. Need better dimension info to determine if platform will fit
		France Ave	60th St	Midblock	N/A	N/A N//	A N/A	N/A N/A	N/.	A N/A	N/A	N/A	N/A	N/A Posidontial	N/ Suitab	All Ioo many driveways Electricita J.S. should ar that could be humped out adiacent vard has some sione to it
	NB	France Ave	58th St	Nearside	Y	N N	N Full Signal	None 12.6		N 16.1	60.1	Y	Y	Residential	Candidat	Example 2 another that Could be competed with adjacent year that some soles to it.
12		France Ave	58th St	Midblock	N/A	N/A N//	A N/A	N/A N/A	N/	A N/A	N/A	N/A	N/A	N/A	N/	
1	SB	France Ave	58th St	Nearside	Y	N I	Full Signal N Full Signal	5.4 8.1		N 12.2	93.4	Y	N	Residential	Candidat	leg has to be compour vity 12 for platon meeting in this a compour.
		France Ave	58th St	Midblock	N/A	N/A N/A	A N/A	N/A N/A	N/	A N/A	N/A	N/A	N/A	N/A	N/	
	ND	France Ave	54th St	Farside	N	Y	N Full Signal	9.1 15		N 23.7	36.6	N	1	Both	Unsuitab	leiBumpout prevented by driveway too close to the corner, but could have curbside platform after driveway
4.0	IND	France Ave	54th St	Midblock	Y N/A	N/A N/A	A Full Signal	5.4 13.2 9.1 15		N 23.7	90.2	Y		/ Residential	Suitab	re; le Bumpout prevented by driveway too close to the corner, but could have curbside platform after driveway
13		France Ave	54th St	Farside	N	Y	N Full Signal	5.3 8.3		N 18.6	79.4	Y	١	(Commercial	Suitab	
	SB	France Ave	54th St 54th St	Nearside	Y N/A	Y N/A	N Full Signal	5 6.6	N/	N 18.2	110.3 N/A	Y N/A	NI/A	Commercial	Suitab	
		France Ave	50th St	Farside	N	Y	N Full Signal	8.2 11.3		N 22.1	275.4	Y	N	Commercial	Candidat	e Awnings stick out and major utility issues here. Has to be bumpout to work
	NB	France Ave	50th St	Nearside	Y	Y	N Full Signal	12 15		N 22.7	587.5	Y)	(Commercial	Candidat	
14		France Ave	50th St	Farside	N	Y	N Full Signal	12.4 15.1		N 19.7	163.7	Y	N	Mixed Use	Candidat	le Bumpour and curbisitie doin resistie e of 7 of ROW would need to be acquired because the ROW is not at the edge of the building, but there is space
	SB	France Ave	50th St	Nearside	Y	N 1	N Full Signal	7.5 6.1		N 8.5	267.2	N	N	Commercial	Unsuitab	ie No parking and no width available for BRT station
<u> </u>		France Ave	50th St 47th St	Midblock	N	Y	N None	13.8 4.5		N 13.9	267.2	Y	N	Commercial	Suitab	lie [Only a bumpout would be feasible and would need to remove on street parking
	NB	France Ave	47th St	Nearside	Y	Y	2-way stop on 47th 2-way stop on 47th	6.2 12.9		N 21.7	120.5	Y)	Residential	Suitab	e inde indegrinengin ravailade, also severe grades in adjacent ya d le Would need to be a bumpout as adjacent ravais evry steep
15	1	France Ave	47th St	Midblock	N/A	N/A N//	A N/A	N/A N/A	N/	A N/A	N/A	N/A	N/A	N/A	N/	
	SB	France Ave	4/th St 47th St	Farside Nearside	N	Y	2-way stop on 47th 2-way stop on 47th	6.2 2.9 5.3 5.3		N 13.3	581.1 30.8	Y	N	Residential Residential	Suitab	liepievees to be a bumpout due to constrained KUW and tencing le Not enough length available
		France Ave	47th St	Midblock	N/A	N/A N//	A N/A	N/A N/A	N/	A N/A	N/A	N/A	N/A	N/A	N/	A
	ND	France Ave	Sunnyside Rd	Farside	N	Y	N Full Signal	6 15.2		N 15.2	107.4	Y	N	Commercial	Suitab	le [Ha is to be a bumpout
17	טאו	France Ave	Sunnyside Rd	Midblock	N/A	N/A N//	A N/A	o 12.1 N/A N/A	N/	A N/A	02.3 N/A	N/A	N/A	N/A	N/	entre neue minimus sustant skew tur auang a uangour. Asar a reauceu plation intergin A
10	CD	France Ave	Sunnyside Rd	Farside	N	Y	Full Signal	47	Detect. 1		1.1.1			0	Unsuitab	le Too many driveways close to this intersection. Not feasible
1	28	France Ave	Sunnyside Rd	Midblock	Y N/A	N/A N//	A Full Signal	0.7 4.1 N/A N/A	N/	A N/A	04.6 N/A	Y N/A	N/A	N/A	Candidat N/	ieginas uz e oumpout, anu is a reduced rengim plationin A
		44th St	Chowen Ave	Farside	N	N	N 2-way stop on Chowen	6.2 11.6		N 11.6	36.9	N	Ν	Commercial	Unsuitab	le Too many driveways
	FR	44th St 44th St	cnowen Ave Chowen Ave	Midblock	Y N/A	N N/A	2-way stop on Chowen	5.9 14.8 N/A N/A	N/	N 14.8	200.3 N/A	N/A	N/A	Residential/Apartments	Suitab N/	
17		44th St	Chowen Ave	Farside	N	N N	N 2-way stop on Chowen	5.1 15	11/1	N 15	50.7	Y		Residential/Apartments	Unsuitab	e Too many driveways
	WB	44th St 44th St	Chowen Ave	Nearside	Y N/A	Y NZA NZA	2-way stop on Chowen	5.2 55.7 N/A	NI/	N 21.5	252.9	Y N/A	N/A	Public ROW	Suitab	
<u> </u>		Upton Ave/Sheridan Ave	43rd St	Farside	N	Y Y	Y Full Signal	19.9 25.9	19/3	N 27.9	70.9	Y		Commercial	Candidat	ele Would not be full lenath platform and looks to have substantial grade issues

Table 1: Proposed Station Suitability Analysis

| Station # | Direction | Mainline Corridor Street | Cross Street(s)
 | Station Location | Existing
bus stop?
(Y/N) | On Street Parking
(Y/N) Bike
Lanes?
(Y/N)
 | Existing Intersection
Controls | Existing
sidewalk width
(X')
 | Existing width to
ROW (if different
than sidewalk
width) (X') | ROW Impacts? (Y/N) | Width
available for
BRT station | Length
available for
platform (X') | Bumpout
feasible?
(Y/N)

 | Sufficient width
available for
curbside platform
(Y/N) | Adjacent property type
(Residential/ Commercial)
 | Feasibility?
(Suitable,
Candidate,
Unsuitable) | | | | | | | | | | | | |
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	EB	Upton Ave/Sheridan Ave	43rd St					
 | Nearside | Y | Y Y
 | Full Signal | 13.4
 | 18.8 | N | 22.5 | 147.6 | 5 Y

 | Maybe | Commercial
 | Candidate Substantial infrastructure and trees built into sidewalk here but there se | | | | | | | | | | | | |
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 |
| 18 | | Upton Ave/Sheridan Ave | 43rd St
 | Midblock | N/A | N/A N/A
 | N/A
Full Signal | N/A
 | N/A | N/A | N/A | N/A | N/A

 | N/A
Maybo | N/A
Commorcial
 | N/A
Candidate Looks to have substantial grade issues | | | | | | | | | | | | |
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 |
| | WB | Upton Ave/Sheridan Ave | 43rd St
 | Nearside | Y | Y Y
 | Full Signal | 10.0
 | 8.0'-32.1' | N | 22 | 96.3 | 3 Y

 | Maybe | Residential/Apartments
 | Suitable Newly constructed apartments adjacent so would need to redo some of | | | | | | | | | | | | |
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 |
| | | Upton Ave/Sheridan Ave | 43rd St
 | Midblock | N/A | N/A N/A
 | N/A | N/A
 | N/A | N/A | N/A | N/A | N/A

 | N/A | N/A
 | N/A | | | | | | | | | | | | |
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 |
| | | 39th St | Sheridan Ave
 | Farside | N | NY
 | Full Signal | 4
 | 10.8 | N | 10.8 | 37.7 | Maybe

 | N | Residential
 | Unsuitable Not enough width or length for platform | | | | | | | | | | | | |
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 |
| | NB/EB | Sheridan Ave | 39th St
 | Nearside | Y | Y N
 | Full Signal | 11.2
 | 11.2 | N | 18.51 | 68.1 | Y Y

 | Maybe | Residential
 | Candidate Feasible but reduced length platform | | | | | | | | | | | | |
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 |
| 19 | | Sheridan Ave | 39th St
39th St
 | Farside | N/A
Y | N/A N/A
 | N/A
Full Signal | N/A
10.5
 | N/A
10.5 | N/A
N | N/A
19 5 | N/A
508.6 | N/A

 | N/A | N/A
Residential
 | N/A
Suitable | | | | | | | | | | | | |
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 |
| | SB/WB | 39th St | Sheridan Ave
 | Nearside | Y | N Y
 | Full Signal | 14.1
 | 10.5 | N | 16.7 | 112.5 | Mavbe

 | Y | Residential
 | Suitable Need to figure out bike lane routing but this is a suitable location | | | | | | | | | | | | |
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 |
| | | Sheridan Ave | 39th St
 | Midblock | N/A | N/A N/A
 | N/A | N/A
 | N/A | N/A | N/A | N/A | N/A

 | N/A | N/A
 | N/A | | | | | | | | | | | | |
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 |
| | 10/50 | Richfield Rd | William Berry Pkwy
 | Farside | N | N N
 | Full Signal | None
 | None | N | 25 | 439.2 | 2 Y

 | Y | Parkboard
 | Suitable Curved roadway geometry and small shoulder but there is adequate spa | | | | | | | | | | | | |
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| | NB/EB | Richfield Rd | William Berry Pkwy
William Berry Pkwy
 | Nearside | Y
N/A | N N
N/A N/A
 | Full Signal | None
N/A
 | None
N/A | N/A | 25
N/A | 568
N/A | N/A

 | Y
N/A | Parkboard
N/A
 | Candidate Steep roadway and thick vegetation directly adjacent to roadway | | | | | | | | | | | | |
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| 20 | | Richfield Rd | William Berry Pkwy
 | Farside | Y | N Y
 | Full Signal | 6
 | 9 | N | 19 | 75.3 | 3 Y

 | N | Parkboard
 | Candidate Need to figure out bike lane routing and grade issues, also has to be a b | | | | | | | | | | | | |
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| | SB/WB | Richfield Rd | William Berry Pkwy
 | Nearside | N | N N
 | Full Signal | None
 | None | N | 25 | 380 |) Y

 | Y | Parkboard
 | Suitable | | | | | | | | | | | | |
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| | | Richfield Rd | William Berry Pkwy
 | Midblock | N/A | N/A N/A
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| 26 | | Hennepin Ave | Groveland Ave
 | Transit Center | N | N/A N/A
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nit space for platform. Need better info.
V; there is room to widen SW if ROW is acquired from park
ailable.
platform; also driveway is close to intersection

Table 1: Proposed Station Suitability Analysis

Station #	Direction	Mainline Corridor Street	Cross Street(s)	Station Location	Existing bus stop? (Y/N)	On Street Parking (Y/N)	Bike Lanes? (Y/N)	Existing Intersection Controls	Existing sidewalk width (X')	Existing width to ROW (if different than sidewalk width) (X')	ROW Impacts? (Y/N)	Width) available for BRT station	Length available for platform (X')	Bumpout feasible? (Y/N)	Sufficient width available for curbside platform (Y/N)	Adjacent property type (Residential/ Commercial)	Feasibility? (Suitable, Candidate, Unsuitable)	Notes
25		University Ave	10th Ave	Midblock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A
30		4th St	10th Ave	Farside	Y	N	Y	Full Signal	5.4	10	N	N 10	76.6	Maybe	N	Commercial	Unsuitable	Could work if 2' of ROW is acquired for curbside platform, but operations with traffic merging to go on 35 NB is not ideal
	WB	4th St	10th Ave	Nearside	N	N	Y	Full Signal	12.3	17.6	N	17.6	175.6	Y	Y	Residential	Suitable	3
		4th St	10th Ave	Midblock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A Contraction of the second
		University Ave	15th Ave	Farside	N	N	Y	Full Signal	14.3	18.8	N	18.8	231.4	Y	Y	Commercial	Suitable	Existing bike lane; Adjacent to U of M building; There is a short retaining wall and iron fence at back of sidewalk
	EB	University Ave	15th Ave	Nearside	Y	N	Y	Full Signal	15.5	19.3	N	19.3	340	Y	Y	Commercial	Suitable	Existing bike lane; Adjacent to U of M building; There is a short retaining wall and iron fence at back of sidewalk
26		University Ave	15th Ave	Midblock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A
30		4th St	15th Ave	Farside	Y	N	Y	Full Signal	15.4	15.4	N	15.4	178.4	Y	Y	Commercial	Suitable	Existing bike lane; existing bus shelter is on the corner where there it is even wider
	WB	4th St	15th Ave	Nearside	N	N	Y	Full Signal	16.9	19.1	N	23.9	145.6	N	Y	/ None	Candidate	on bridge; existing bike lane; Existing right turn only lane so would likely need to share operations with BRT
		4th St	15th Ave	Midblock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A Contraction of the second
		University Ave	Huron Blvd/23rd Ave	Farside	N	N	N	Full Signal/LRT	19.8	25.2	N	25.2	184	Maybe	Y	/ None	Suitable	a Plaza is adjacent
	EB	University Ave	Huron Blvd/23rd Ave	Nearside	N	N	N	Full Signal/LRT	11.1	24.9	Potentially	24.9	107	N	Y	Commercial	Candidate	Existing right turn only lane
27		University Ave	Huron Blvd/23rd Ave	Midblock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A
37		University Ave	Huron Blvd/23rd Ave	Farside	N	N	N	Full Signal/LRT	20	22.3	N	22.3	167.4	Maybe	Y	Commercial	Suitable	Bumpout with turf boulevard already exists at the corner
	WB	University Ave	Huron Blvd/23rd Ave	Nearside	Y	N	N	Full Signal/LRT	15.6	20.4	N	20.4	504.2	Maybe	Y	Commercial	Suitable	
		University Ave	Huron Blvd/23rd Ave	Midblock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A
		University Ave	27th Ave	Farside	N	Y	N	Full Signal	6.3	26.6	N	26.6	105	Y	Y	Commercial	Suitable	
	EB	University Ave	27th Ave	Nearside	Y	Y	N	Full Signal	6.4	27.7	N	27.7	333.4	Y	Y	Commercial	Suitable	2
20		University Ave	27th Ave	Midblock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A line line line line line line line line
30		University Ave	27th Ave	Farside	N	Y	N	Full Signal	16.4	21.6	N	21.6	242.6	Y	Y	Commercial	Suitable	
	WB	University Ave	27th Ave	Nearside	Y	Y	N	Full Signal	16.3	22.2	N	22.2	200.4	Y	Y	Commercial	Suitable	2
		University Ave	27th Ave	Midblock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A line line line line line line line line
		University Ave	Malcom Ave	Farside	N	N	N	Full Signal/LRT	5.8	16.7-24,4	N	16.7-24,4	137.9	N	Y	Commercial	Suitable	Grade of hill behind sidewalk is substantial so could require small wall
	EB	University Ave	Malcom Ave	Nearside	Y	N	N	Full Signal/LRT	6.2	16	N	N 16	86	N	Y	Commercial	Suitable	
20		University Ave	Malcom Ave	Midblock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A
39		University Ave	Malcom Ave	Farside	N	N	N	Full Signal/LRT	9.9	9.9-13.9	N	9.9-13.9	101.9	N	Maybe	Commercial	Candidate	Sidewalk is too small by intersection but does widen out as you move West. Need better dimension info
	WB	University Ave	Malcom Ave	Nearside	Y	N	N	Full Signal/LRT	12.5	19.9	N	19.9	218.9	N	Maybe	Commercial	Candidate	Retaining wall directly adjacent to sidewalk. Need better dimension info to determine if platform will fit
		University Ave	Malcom Ave	Midblock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A
	FD	University Ave	Berry St	Nearside	Y	N	N	Full Signal/LRT	12.5		Potentially	r i	260.5	N	Maybe	Mixed Use	Candidate	Need better data to determine if BRT station can fit into sidewalk width. Otherwise it's a good candidate
40	ED	University Ave	Berry St	Midblock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
40	W/D	University Ave	Berry St	Nearside	Y	N	N	Full Signal/LRT	11.2		Potentially	r	329.1	N	Maybe	Commercial	Suitable	Need better data to determine if BRT station can fit into sidewalk width. Otherwise it's a good candidate
	VVB	University Ave	Berry St	Midblock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/#	A



E Line Corridor Study

Appendix B

October 2019

To stay in touch with project updates, you can sign up for the E Line newsletter at the project website at metrotransit.org/e-line-project

E Line Corridor Study – Appendix B | 1



Figure 2: Transit Advantage Recommendations



Alternative	Mainline Corridor Street	CrossStreet	Intersection Typ	e Distance Betwee Intersections	FOC to FOC Dimensions (Between Blocks)	FOC to FOC Dimensions (Near sid of Int moving S to N)	FOC to FOC Dimensions (Far Side of Int moving S to N)	Transit Only Lanes - Both Directions?	Transit Only Lane - One Way?	Queue Jump NB/EB?	Shoulder + Closest Lane Dimension (NB Xerxes/France EB University)	Queue Jump SB/WB?	Shoulder + Closest Lane Dimension (SB Xerxes/France WB 4th)	e TSP?	Additional Notes
4&5	SB Drew Ave S	W 66th St Retwoon Plocks	Signalized			32.3	46.3			Ν		N	15.1	Y	Entering the mall, this is only for the Southbound movement of buses
4&5	York Ave S	W 66th St	Signalized			86.6	99.8			N	12.7	N		Y	The NB/EB queue jump lane is a left tum movement
4&5	W 66th St	Between Blocks Barrie Rd	1-Way Stop	719	94.7	8 40	105 7	Ν	Convert Thru Lane	N		N		N	Reallocate one of the three thru lanes to accommodate transit lane
4&5	W 66th St	Between Blocks	1-way stop	670	94	70.0	103.7	N	Convert Thru Lane	N		IN .		IN	Reallocate one of the three thru lanes to accommodate transit lane
4&5	W 66th St	Drew Ave S	Signalized		10	95.7	46.3	N	Y	N	14.1	Ν		γ	
4&5	Drew Ave S	W 65th St	4-Way Stop	000	40	40.8	43	N	1	N		N		Convert to Signal	resulpe to create one transit only lane
4&5	W65th St	Between Blocks	Cianolizod	805	40.9	45 7	05.0	Ν	Y	N	12.2	N	12.0	v	Restripe to create one transit only lane
4&5	France Ave	Between Blocks	signalized	345	102.4	45.7	95.2	N	N	N	13.2	N	13.8	T	Medians and freeway ramps do not allow for transit lanes to fit
4&5	France Ave	62 East	Signalized			75.9	81.4			N	13.1	Ν	14.3	Υ	
4&5 4&5	France Ave France Ave	62 West	Signalized	259	11.2	77.2	74.9	N	N	N	12.3	N	15	Y	Restriping and narrowing of the center median will allow for one transit only lane
4 & 5	France Ave	Between Blocks	5	1276	43.8			Ν	Υ						Restripe and remove on street parking to create one transit lane
4&5 4&5	France Ave France Ave	W 62nd St Between Blocks	1-Way Stop	596	45.1	43.9	45.7	N	Y	N		N		N	No Signal and left turn lane
4 & 5	France Ave	W 61st St/Halifax Ave	1-Way Stop			45.9	45.3			Ν		N		Ν	Left turn lane included
4&5 4&5	France Ave	Between Blocks W 60th St (West)	1-Way Stop	471	45	44 3	44	Y	Y	N		N		N	There are no left turn lanes in this range so with restriping you could theoretically fit in two transit only lanes
4&5	France Ave	Between Blocks	1 may otop	233	44	11.0		N	Y						
4&5	France Ave	W 60th St (East)	1-Way Stop	1021	44.47	44.8	44.2	N	v	N		N		Ν	L eft turn lanes
4&5	France Ave	GrimesLn	1-Way Stop	1031	44*47	45.4	45.6	IN .		N		N		Ν	No Left Turn lanes here (potentiall for transit only lanes North of W 60th St (east))
4&5	France Ave	Between Blocks	Cineralizad	293	44.6	45.0	4/ 1	N	Y		17.0	N	17	X	Lafekan kas fa MD and CD. Classified
4&5 4&5	France Ave France Ave	W 58th St Between Blocks	Signalized	552	44.8	45.3	46. I	N	Y	N	17.2	N	17	Ŷ	Left turn lane for NB and SB - Signalized
4&5	France Ave	Wood end Dr	1-Way Stop			46.2	44.7			N		N		Ν	
4&5 4&5	France Ave France Ave	Between Blocks W 57th St	1-Way Stop	115	45.5	46.2	44.7	Ŷ	Ŷ	N		N		N	No Left furn lanes, I wo transit only lanes permited
4&5	France Ave	Between Blocks		427	46.3			γ	Υ						No Left turn lanes, Two transit only lanes permited
4&5 4&5	France Ave France Ave	W 56th St Between Blocks	1-Way Stop	885	44.9	45	44.4	Y	Y	N		N		N	No.Left turn lanes. Two transit only lanes permited
4&5	France Ave	W55th St	1-Way Stop			44.2	44.8			Ν		N		Ν	
4&5	France Ave	Between Blocks	1-Way Stop	338	45.2	45.7	11.3	Y	Y	N		N		N	No Left turn lanes, Two transit only lanes permited
4&5	France Ave	Between Blocks	1-1103 5100	330	44.6	43.7	4.5	γ	Υ	N					No Left turn lanes, Two transit only lanes permited
4&5	France Ave	W 54th St Rotwoon Placks	Signalized	657	44	44.5	46	v	v	Y	22.1	Y	23.7	Y	Not off turn knos. Two transitionly knos parmited
4&5	France Ave	W 53rd St	1-Way Stop	057	44	44.3	44.1			N		N		Ν	NULER LUTITIBLES, FWO BAILS ONLY BIES PETITILED
4&5	France Ave	Between Blocks	2 Mars Char	561	44.2	44.7	12.4	γ	γ			N			No Left turn lanes, Two transit only lanes permited
4&5	France Ave	Between Blocks	2-way stop	666	42.6	44.7	43.0	Ν	Y	IN .		IN		N	N left turn lane, can almost fit two transit lanes-potentially remeasure
4&5	France Ave	W 51st St	Signalized	(50	12.2	42.6	43.8	N	Y	Υ	22.3	Υ	22.6	Υ	N left han bee fee MR et Colle een els est fil han han it
4&5 4&5	France Ave France Ave	W 50th St	Signalized	009	43.3	41.6	39.6	N	ĭ	N	19.2	N	11	Y	N FET LUM IANE FOR NIS AL SOUN, C'AN AIMOST HELWO (FARSIL
4&5	France Ave	Between Blocks	Circus line d	354	40	41.0	10 (Ν	Ν		10	V	11.0	V	4 lanes of traffic- no transit lanes permitted
5 5	France Ave	Between Blocks	signalized	296	40.5	41.8	40.0	N	Y	IN	10	Y	11.3	T	No left turn lanes, one transit lane could fit
5	France Ave	W 49th St	2-Way Stop			38.9	39.8			N		N		N	
5 5	France Ave France Ave	Between Blocks W 48th St	2-Way Stop	665	40.2	40.1	40.4	N	Y	N		N		N	No left turn lanes, one transit lane could fit
5	France Ave	Between Blocks		642	42			N	γ						No left turn lanes, one transit lane could fit
5	France Ave France Ave	W 47th St Between Blocks	2-Way Stop	665	39.3	39.9	39.8	N	Y	N		N		N	No left turn lanes, one transit lane could fit
5	France Ave	W 46th St	1-Way Stop			39.2	41.3			N		N		Ν	
5	France Ave France Ave	Between Blocks W 45th St	1-Way Stop	655	40.7	39.7	43.9	N	Ŷ	N		N		N	No left turn lanes, one transit lane could fit
5	France Ave	Between Blocks		163	44.7			γ	Y		-		-		No left turn lanes, one transit lane could fit (Distance between intersections here is small, a transit lane may be cramped)
5 5	France Ave France Ave	Sunny Side Ave Between Blocks	Signalized	223	46.9	46.9	45.4	Y	Y	Ŷ	24.3	Y	23.3	Y	No lett turn lanes, one transit lane could fit (Distance between intersections here is small, a transit lane may be cramped) No left turn lanes, one transit lane could fit (Distance between intersections here is small, a transit lane may be cramped)
5	France Ave	W 44th St	Signalized	220		46.7	38.4			Ν	23.2	Ν	19.2	Υ	No queue jumps due to turn in route
5	W 44th St W 44th St	Between Blocks Sunny Side Ave	1-Way Stop	253	38.2	38.2	37.7	N	Ŷ	N		N		N	
5	W 44th St	Between Blocks	, may orop	419	37.1	00.2	01.1	N	Y						Remove on street parking to create one transit lane
5	W 44th St	S Drew Ave	2-Way Stop	262	20.9	39	30.5	N	N	N		Ν		Ν	No transit lanos can fit (rom iros 22' of roadwaw)
5	W44thSt	S Chowen Ave (South)	1-Way Stop	202	30.0	30.5	33.3	N	IN	N		N		N	no nansi anescanni (requires 35 or roadway)
5	W 44th St	Between Blocks	1 Way Stop	80.7	33	22	20.0	N	Y	N		N		N	Shared roadway with bikes, no Turn lanes. Transit lanes can fit
5	W44thSt	Between Blocks	1-way stop	334	39	33	30.0	N	Y	N .		N.		N	Take out on street parking, one transit lane would fit
5	W 44th St	S Beard Ave	4-Way Stop	242	20.2	39.2	26.5	N	N	N		Ν		Convert to Signal	
5	W 44th St	S Abbott Ave	2-Way Stop	343	აშ. პ	38.3	38.8	IN	IV	Ν		N		Ν	Intersection as been unite too han ow to accontinuouate a transitiane
5	W 44th St	Between Blocks	4 10/ 01	327	38.3	20.0	2	Ν	Y	N		N	_	Compared to City of	Remove on street parking to create one transit lane
ი 5	W 44th St	S Zenith Ave Between Blocks	4-way Stop	329	36.1	38.3	34.1	N	Y	IN		IN		convert to signal	Remove on street parking to create one transit lane
5	W44thSt	S York Ave	2-Way Stop		21.0	35.7	34.4	N	V	Ν		Ν		Ν	
5	w 44th St W 44th St	S Xerxes Ave	Signalized	326	34.2	34.5	34.9	N	T	N	20.6	N	13.4	Y	Nerriove on sireer parking to create one transitiane
Known	W44thSt	Between Blocks	4.147 **	337	34.9			Ν	Y						Remove on street parking to create one transit lane
known Known	w 44th St W 44th St	s washburn Ave Between Blocks	I-Way Stop	319	34.3	34.9	34.3	N	Y	N		N		N	Remove on street parking to create one transit lane
Known	W44thSt	S Vincent Ave	1-Way Stop			33.4	34.7			Ν		N		Ν	
Known Known	w 44th St W 44th St	Between Blocks S Uptown Ave	4-Way Stop	329	34.8	34.8	46.8	N	Y	N		N		Convert to Signal	kemove on street parking to create one transit lane
Known	W 44th St	Between Blocks	· · · · · · · ·	474	46.8			N	N		-				Between W 44th and 43rd avenue there is a small stretch of median that will not allowa transit lane to fit

Alternative	Mainline Corridor Street	CrossStreet	IntersectionType	Distance Between Intersections	FOC to FOC Dimensions (Between Blocks)	FOC to FOC Dimensions (Near side of Int moving S to N)	FOC to FOC Dimensions (Far Side of Int moving S to N)	Transit Only Lanes Both Directions?	- Transit Only Lane - One Way?	2 Queue Jump NB/EB?	Shoulder + Closest Lane Dimension (NB Xerxes/France EB University)	Queue Jump SB/WB?	Shoulder + Closest Lane Dimension (SB Xerxes/France WB 4th)	TSP?	Additional Notes
Known	S Upton Ave	W 43rd St	Signalized	440	54.7	47.7	55.6			Y	23.5	Y	23.5	γ	Bike lane, through lane, and shoulder for the NB portion. SB has a landscaped median that n
Known Known	S Upton Ave S Sheridan Ave	S Uptown Ave	1-Way Stop	143	54.7	54.7	41	Мауре	Maybe	N		N		N	narrow median to accommodate transit and bike lanes
Known	S Sheridan Ave	Between Blocks	.,	742	32.2			Ν	Ν						
Known Known	S Sheridan Ave S Sheridan Ave	W 42nd Ave (west) Between Blocks	1-Way Stop	312	32	31	32.3	N	N	N		N		N	road too parrow to accommodate transit lane
Known	S Sheridan Ave	W 42nd Ave (east)	1-Way Stop	012	02	31.6	32.2.			N		N		N	
Known	S Sheridan Ave	Between Blocks	1 Way Stop	391	33.1	22	21 /	Ν	Y	N		N		N	road could fit one transit lane, remove on street parking
Known	S Sheridan Ave	Between Blocks	1-way stop	647	31.4	33	51.4	Ν	N	IN		IN .		IN .	road too narrow to accommodate transit lane
Known	S Sheridan Ave	W 40th Ave	2-Way Stop	(/0	20 (36.9	33.4	N		N		Ν		Ν	
Known	S Sheridan Ave	W 39th St	Signalized	008	29.0	29.6	30.2	IN	N	N		N		γ	road too narrow to accommodate transitiane
Known	S Sheridan Ave	Between Blocks		215	31	01.0	20.4	Ν	N						road too narrow to accommodate transit lane
Known	W 39th St	Between Blocks	werge	673	33.1	31.3	30.4	Ν	Y	IN		IN		N	road too narrow to accommodate transit lane
Known	Richfield Rd	William Berry Pkwy	Signalized			33.1	41.7			Ν	15.9	Ν	11.2	Υ	Queue jump lanes will not fit, shoulder and adjacent lane too small
Known Known	Richfield Rd Richfield Rd	Between Blocks W 36th St	Signalized	2302	31.9	38.6	51.2	N	N	N	22.2	N	24.7	Y	No queue iump lanes due to turn in route
Known	Richfield Rd	Between Blocks		286	50.9			Ν	Υ						Must also accommodate two bike lanes, one transit lane could fit
Known Known	W 36th St W 36th St	S James Ave Retween Blocks	1-Way Stop	181	50.6	50.9	50.6	N	Y	N		N		N	Must ako accommodate two bike lanes, one transit lane could fit
Known	W 36th St	S Irving Ave	1-Way Stop	101	00.0	50.6	49.8		•	Ν		N		N	
Known	W36thSt	Between Blocks	1 May Stop	323	48.5	49.5	10.2	Ν	Y	N		N		N	Must also accommodate two bike lanes, one transit lane could fit
Known	W36thSt	Between Blocks	1-way stop	340	47.1	40.5	40.2	N	Y	IN		IN		IN .	Must also accommodate two bike lanes, one transit lane could fit
Known	W 36th St	S Holmes Ave	1-Way Stop	000	17	47.1	48.2		Y.	Ν		Ν		Ν	
Known	W 36th St	Between Blocks		320	47			N	Ŷ						
		14/50/1-01	<i>a</i> : r 1			14 /	10				10.0		10 /	X	
4	France Ave S France Ave S	W SUTH ST Between Blocks	Signalized	332	42.1	41.6	43	Ν	N	N	19.2	N	10.6	Ŷ	Sequeue lane would be a Left turn movement, both Queue jump lanes do not fit Left turn lane, and two through lanes, tranist lane will not fit
4	W 50th St	S Ewing Ave	2-Way Stop			42.1	43.1			Ν		Ν		Ν	
4	W 50th St W 50th St	Between Blocks S Drew Ave	2-Way Stop	330	41.5	41.5	44.1	N	N	N		N		N	Left turn lane, and two through lanes, tranist lane will not fit
4	W 50th St	Between Blocks	.,	326	42.8			Ν	Ν						Left turn lane, and two through lanes, tranist lane will not fit
4	W 50th St	S Chowen Ave	Signalized	334	42.5	43.3	42.9	N	N	N	15.9	N	15.8	Y	Left turn lane, and two though lanes, Queue jump lane will not fit
4	W 50th St	S Beard Ave	2-Way Stop	001	12.0	41.7	43			N		Ν		N	
4	W 50th St	Between Blocks S Abbott Ave	2-Way Stop	328	41.3	42.3	41.2	Ν	N	N		N		N	Left turn lane, and two through lanes, tranist lane will not fit
4	W 50th St	Between Blocks	2 110 9 010 0	333	39.5	12.0		Ν	N						Left turn lane, and two through lanes, tranist lane will not fit
4	W 50th St	S Zenith Ave	Signalized			39.5	39.8			N	13.5	Ν	13.9	Y	Left turn lane, and two though lanes, Queue jump lane will not fit
4	W 50th St	Between Blocks S York Ave	2-Way Stop	332	42.5	43	43.6	Ν	N	N		N		N	Left turn lane, and two through lanes, tranist lane will not fit
4	W 50th St	Between Blocks	2 110 0100	329	41.5	10	10.0	Ν	Ν						Left turn lane, and two though lanes, transit lane will not fit
4	W 50th St	S Xerxes Ave	Signalized			44.6	40.3			Ν	16.2	Ν	19.3	Y	Queue jump lanes will not fit.
6	S Xerxes Ave	Southdale Center	Signalized	_	_	48.1	88.8	_	_	N	12.8	N	13.2	Y	
6	S Xerxes Ave	Between Blocks	orginalized	1345	88.6	10.1	00.0	Ν	Ν		12.0		10.2		Restripe and narrow center median to accommodate two transit lanes
6	S Xerxes Ave	W 66th St Between Blocks	Signalized	817	01 /	86.6	82.1	Maybo	Maybe	N	12	Ν	19.6	Y	narrow median and two transit lanes could fit
6	S Xerxes Ave	W65thSt	1-Way Stop	017	71.4	104.8	107.6	waybe	waybe	N		N		N	
6	S Xerxes Ave	Between Blocks	2 Mars Char	657	104.8	104.1	07.2	Y	Υ	N					Remove on street parking and two transit lanes can fit
6	S Xerxes Ave	Between Blocks	2-way stop	853	51.1	104.1	97.3	Ν	N	N		N		N	4 thru lanes in this stretch
6	S Xerxes Ave	Heritage Dr	1-Way Stop			52.1	49.2			Ν		Ν		Ν	
6 6	S Xerxes Ave	E 62	Signalized	331	50.5	50.3	45.7	N	N	N	12.9	N	11.4	Y	4 thru lanes in this stretch
6	S Xerxes Ave	Between Blocks	-	273	46.6			Ν	N						
6 6	S Xerxes Ave S Xerxes Ave	W 62 Between Blocks	Signalized	524	39.9	46.6	40.2	N	N	N	12.9	N	11.8	Ŷ	
6	S Xerxes Ave	W 61st St	1-Way Stop			39.6	38.6			Ν		Ν		N	
6	S Xerxes Ave	Between Blocks W 60th St	Signalized	639	40.8	40.4	41 1	N	Y	N	19.8	Y	21.3	Y	Remove on street parking and one transit lane can fit
6	S Xerxes Ave	Between Blocks	olgi lalizodi	671	40.8	10.1		Ν	γ		17.0		21.0		Remove on street parking and one transit lane can fit
6	S Xerxes Ave	W 59th St Rotwoon Plocks	2-Way Stop	661	41	39	39.3	N	v	N		Ν		N	Pomovo on street parking and one transitions can fit
6	S Xerxes Ave	W 58th St	2-Way Stop	001	-11	41.7	41			N		Ν		Ν	
6	S Xerxes Ave	Between Blocks	1 May Stop	652	41.1	40.1	20.0	Ν	Y	N		N		N	Remove on street parking and one transit lane can fit
6	S Xerxes Ave	Between Blocks	1-way stop	663	40	40.1	30.9	Ν	Y	N		IN		IN	Remove on street parking and one transit lane can fit
6	S Xerxes Ave	W 56th St	4-Way Stop			40.8	39.7			Ν		Ν		Convert to Signal	
6	S Xerxes Ave	W 55th St	2-Way Stop	662	40.5	39.7	38.8	N	1	N		N		N	Remove on street parking and one transitiane can fit
6	S Xerxes Ave	Between Blocks		647	39.9			Ν	Y						Remove on street parking and one transit lane can fit
6 6	S Xerxes Ave S Xerxes Ave	W 54th St Between Blocks	2-Way Stop	662	37.7	40.9	39.1	N	Y	N		N		N	Remove on street parking and one transit lane can fit
6	S Xerxes Ave	W 53rd St	2-Way Stop			38.7	41.2			Ν		Ν		Ν	
6 6	S Xerxes Ave S Xerxes Ave	Between Blocks W 52nd St	2-Way Stop	662	38.4	38.4	37.7	N	γ	N		N		N	Remove on street parking and one transit lane can fit
6	S Xerxes Ave	Between Blocks		659	38.7			Ν	Y						Remove on street parking and one transit lane can fit
6 6	S Xerxes Ave S Xerxes Ave	W 51st St Between Blocks	4-Way Stop	659	39.2	40.4	39.5	N	Y	Ν		Ν		Convert to Signal	Remove on street parking and one transit lane can fit
4&6	S Xerxes Ave	W 50th St	Signalized		57.2	39	40.3			Ν	19.4	Ν	19.3	Y	Not wide enough for queue jump lanes
4&6	S Xerxes Ave	Between Blocks		658	39.7			Ν	Y						Remove on street parking and one transit lane c an fit

t make a queue jump lane difficult	
it make a queue jump iane unnouit	

Alternative	Mainline Corridor Street	Cross Street	Intersection Typ	e Distance Between Intersections	FOC to FOC Dimensions (Between Blocks)	FOC to FOC Dimensions (Near side of Int moving S to N)	FOC to FOC Dimensions (Far Side of Int moving S to N)	Transit Only Lanes Both Directions?	- Transit Only Lane - One Way?	Queue Jump NB/EB?	Shoulder + Closest Lane Dimension (NB Xerxes/France EB University)	e Queue Jump SB/WB?	Shoulder + Closest Lane Dimension (SB Xerxes/France WB 4th)	TSP?	Additional Notes
4&6	S Xerxes Ave	W 49th St Between Blocks	Signalized	666	30 /	40	38.5	N	v	N	20.5	N	19.5	Ŷ	Not wide enough for queue jump lanes Remove on street parking and one transit lane c an fit
4&6	S Xerxes Ave	W48thSt	2-Way Stop	000	57.4	39.2	37.7	IN .		N		N		N	territive of street parking and one transitiane carrie
4&6	S Xerxes Ave	Between Blocks		667	39.7			Ν	Y						Remove on street parking and one transit lane can fit
4&6	S Xerxes Ave	W 47th St Between Blocks	2-Way Stop	655	38.6	39.6	37.1	N	v	N		N		N	Remove on street parking and one transit lane can fit
4&6	S Xerxes Ave	W 46th St	2-Way Stop	000	30.0	38.7	39.2	i v		N		N		N	ternove on street parking and one transitione earthic
4&6	S Xerx es Ave	Between Blocks		659	38.3			Ν	γ						Remove on street parking and one transit lane can fit
486	S Xerxes Ave	W 45th St Rotwoon Placks	2-Way Stop	660	20.1	39.4	38.7	N	v	N		N		N	Pomovo on stroot parking and one transitiane can fit
4&6	S Xerxes Ave	W 44th St	Signalized	007	57.1	40	34.9	IN .		N	19.2	N	13.4	Y	not wide enough for queue jump lanes
Known	W 36th St	Hennepin Ave	Signalized			47	42.7			N	25.9	N	22.4	Y	Must accommodate two bike lanes, queue lanes not feasible due to turn in route
Known	Hennepin Ave E	Between Blocks		667	33.5			Ν	Y						new aerial obtianed from near map. Remove on street parking to create transit lane
Known Known	Hennepin Ave E Hennepin Ave F	W 35th St Retween Blocks	2-Way Stop	658	39.87	33	33.3	N	Y	N		N		N	new aerial obtianed from near map. Remove on street parking to create transit lane
Known	Hennepin Ave E	W 34th St	Signalized			33	34.1			Y	21.1	Ν	21	Y	Remove on street parking to fit queue lanes
Known	Hennepin Ave E	Between Blocks		582	39.2			Ν	Y						new aerial obtianed from near map. Remove on street parking to create transit lane
Known Known	Hennepin Ave E Hennepin Ave F	W 33rd St Retween Blocks	2-way stop	657	40.3	34.2	33.7	N	Y	N		N		N	new aerial obtianed from near map. Remove on street parking to create transit lane
Known	Hennepin Ave E	W 32nd St	2-Way Stop	007	10.0	33.1	34.6			N		Ν		N	
Known	Hennepin Ave E	Between Blocks		680	39.4			N	Y						new aerial obtianed from near map. Remove on street parking to create transit lane
Known	Hennepin Ave E Hennepin Ave E	W 31st St Between Blocks	Signalized	648	32.7	40.5	37.5	N	N	Y	25.3	Y	21.1	Y	Remove on street parking to fit queue lanes
Known	Hennepin Ave E	WLakeSt	Signalized	040	32.7	43.1	60.3	IN .	N	N	12.3	N	19.9	Y	new acharobhaneu non near map. Transiciane wiiniochi, with econstruction
Known	Hennepin Ave E	Between Blocks	0	327	59.7			N	Y						remove on street parking to fit transit lane
Known	Hennepin Ave E	Lagoon Ave	Signalized	202	50.4	59.4	58.7	N	V	Y	21.6	Y	10.9	Y	Right turn lane to be used for queue jump for southbound
Known	Hennepin Ave E	W 29th St	Signalized	283	59.4	59.9	71.4	IN	Y	N	19.1	N	19.9	Y	remove on street parking to it transitiane
Known	Hennepin Ave E	Between Blocks		700	60.3			Ν	Y						remove on street parking to fit transit lane
Known	Hennepin Ave E	W 28th St	Signalized	(04	50.0	59.5	58.9			Ν	20.1	Ν	17.5	Y	
Known Known	Hennepin Ave E Hennepin Ave F	W 27th St	Signalized	681	59.3	60.7	60.7	N	Ŷ	N	19.3	Y	21.1	Y	remove on street parking to fit transit lane
Known	Hennepin Ave E	Between Blocks	g	349	59.2			N	Y						remove on street parking to fit transit lane
Known	Hennepin Ave E	S Grand Ave	1-Way Stop			59.2	58.2			Ν		Ν		N	
Known Known	Hennepin Ave E Hennepin Ave F	Between Blocks W 26th St	Signalized	338	57.5	59	60.1	N	Ŷ	N	20.1	N	21	Y	remove on street parking to fit transit lane
Known	Hennepin Ave E	Between Blocks		743	59.8			N	Y						remove on street parking to fit transit lane
Known	Hennepin Ave E	W 25th St	Signalized			59.6	59.5			Ν	19.4	Ν	20	Y	
Known Known	Hennepin Ave E Hennepin Ave E	S Fremont Ave	1-Way Stop	368	59.4	59	57 5	N	Ŷ	N		N		N	remove on street parking to fit transit lane
Known	Hennepin Ave E	Between Blocks	1 1103 0100	102	57.5	07	07.0	N	Y						remove on street parking to fit transit lane
Known	Hennepin Ave E	S Emerson Ave	1-Way Stop	074	57.4	57.5	57.1			Ν		Ν		N	
Known	Hennepin Ave E Hennepin Ave E	Between Blocks W 24th St	Signalized	2/1	57.1	57.6	58.4	N	Ŷ	N	18.9	N	19.7	v	remove on street parking to fit transit lane
Known	Hennepin Ave E	Between Blocks	oignaileou	412	60.1	07.0	00.1	N	Y		10.7				remove on street parking to fit transit lane
Known	Hennepin Ave E	S Duport Ave	1-Way Stop			58.1	58			Ν		Ν		N	
Known Known	Hennepin Ave E Hennepin Ave F	Between Blocks W 22nd St	Signalized	331	57.6	61.5	58.5	N	Ŷ	Y	25	N	19	Y	remove on street parking to fit transit lane Remove on street parking for NB/FB queue jump lane
Known	Hennepin Ave E	Between Blocks	- 9	408	62.1			N	N						remove on street parking to fit transit lane
Known	Hennepin Ave E	S Colfax Ave	1-Way Stop			61.4	65.8			N		Ν		N	
Known	Hennepin Ave E	Between Blocks W Franklin Ave	Signalized	333	66.3	78.0	75.8	Y	Y	v	21.5	N	11.5	v	remove on street parking to fit transit lanes
Known	NB Hennepin Ave E	Between Blocks	Signalized	1446	23.7	70.7	75.0	N	N		21.5	N	11.5		Transit lanes will not fit along this stretch
Known	NB Hennepin Ave E	Lyndale Ave S	Signalized			40.5	41.3			Maybe	14.9	Ν		Y	Convert thru lane to Queue jump
Known	NB Hennepin Ave E	Between Blocks	Signalized	454	41.3	52.7	30.6	N	Convert Thru Lane	v	15	N		v	change thru lane to transit only lane Not wide enough for Queue jump lane. Pinht turn lane can be used
Known	NB Hennepin Ave E	Between Blocks	Signalized	668	36	52.7	57.0	N	Convert Thru Lane		15				change thru lane to transit only lane
Known	NB Hennepin Ave E	W 15th St	Signalized			36	37			Ν	11.2	Ν		Y	
Known	NB Hennepin Ave E	Between Blocks	1 Way Stop	309	38.2	20.2	20.0	N	Y	N		N		N	Must accommodate two thru lanes and a bike lane (current)
Known	NB Hennepin Ave E	Between Blocks	1*Way Stop	809	38.8	30.2	30.0	N	Y	N		N		IN .	Must accommodate two thru lanes and a bike lane (current)
Known	NB Hennepin Ave E	Dunwoody Blvd	Signalized			39.5	67			Ν	11.9	Ν		Y	Right turn, no queue jump lane
Known	Hennepin Ave E	Between Blocks	Signalizad	433	67.1	42.4	40	Ν	Y	N	10.1	N	10.2	v	Must accommodate a total of 4 thru lanes and one bike lane. With restriping, one transit lane
Known	Hennepin Ave E	Between Blocks	Signalized	764	72	02.0	02	N	Y	N	17.1	N	17.5	'	Must accommodate a total of 4 thru lanes and two bike lanes. Remove on street parking to a
Known	Hennepin Ave E	Spruce Pl	Signalized			71.6	59.6			Y	15.4	Ν	18	Y	Remove on street parking for NB/EB queue jump lane
Known	Hennepin Ave E	Between Blocks	Signalized	395	59.7	60	60.1	N	N	N	10.2	N	16.7	v	Must accommodate a total of 4 thru lanes and 2 bike lanes. Transit lane will not fit
Known	Hennepin Ave E	Between Blocks	Signalized	391	60.4	00	00.1	N	N	N	10.2	IN .	10.7	'	Must accommodate a total of 4 thru lanes and 2 bike lanes. Transit lane will not fit
Known	Hennepin Ave E	S 12th St	Signalized			58.1	60.2			Ν	20.1	Ν	12.8	Y	
Known		Dunwoody Plyd	Signalized			25.6	47.7			N		N	10.9	v	
Known	SB Hennepin Ave E/Lyndale	Between Blocks	Jigi idilzeu	283	43.6	33.0	47.7	N	N	N		N	10.0		
Known	SB Hennepin Ave E/Lyndale	Hennepin Ave E	Signalized			43.6	42			N		Ν	NA	Y	No Queue jump for the SB/WB because it's a left turn
Known	SB Hennepin Ave E/Lyndale	Between Blocks	Signalized	1009	40	54.0	40.1	N	Convert Thru Lane	N		N	14.5	v	transit lane may not be feasible, lyndale and hennepin share this stretch
Known	SB Hennepin Ave E/Lyndale	Between Blocks	Signalized	652	46.7	54.9	49.1	N	Convert Thru Lane				14.5	•	transit lane may not be feasible, lyndale and hennepin share this stretch
Known	SB Hennepin Ave E/Lyndale	Groveland Terrance	Signalized			68.8	32.6			N		Ν	11.2	Y	
Known	SB Hennepin Ave E/Lyndale	Between Blocks	1-Way Stop	273	32.6	21.0	22.7	N	N	Ν		N		N	not wide enough for transit lane
Known	SB Hennepin Ave E/Lyndale	Between Blocks	1-way stop	390	33.8	31.8	33. <i>1</i>	N	Y	IV.		N		IN	Remove on street parking to make transit lane
Known	SB Hennepin Ave E/Lyndale	Summit Ave	1-Way Stop			31.8	33.7			N		Ν		N	
Known	SB Hennepin Ave E/Lyndale	Between Blocks	1-Way Stop	273	32.6	21.9	22.7	N	N	N		N		N	not wide enough for transit lane
Known	SB Hennepin Ave E/Lyndale	Between Blocks	· •••• ••••	273	32.6	51.0	55.1	Ν	N						not wide enough for transit lane

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Alternative	Mainline Corridor Street	CrossStreet	Intersection Typ	e Distance Between Intersections	FOC to FOC Dimensions (Between Blocks)	FOC to FOC Dimensions (Near side) of Int moving S to N)	FOC to FOC Dimensions (Far Side of Int moving S to N)	Transit Only Lanes Both Directions?	- Transit Only Lane - One Way?	Queue Jump NB/EB?	Shoulder + Closest Lane Dimension (NB Xerxes/France EB University)	Queue Jump SB/WB?	Shoulder + Closest Lane Dimension (SB Xerxes/France WB4th)	TSP?	Additional Notes
Known	Hennepin Ave E	Washington Ave	Signalized			58.5	77.5			N	9.5	N	18	Y	
Known Known	Hennepin Ave E Hennepin Ave E	Between Blocks N 2nd St	Signalized	441	73.2	74.2	86.3	Ν	Ν	N	18.1	N		Y	Must accommodate 4 thru lanes, one left turn lane and 2 bike lanes. Transit lane will not fit
Known	Hennepin Ave E	Between Blocks	olg lancou	442	83.5		00.0	Ν	Maybe						Need to reduce median to fit in one transit lane
Known Known	Hennepin Ave E Hennepin Ave E	N 1st St Between Blocks	signalized	1590	43.4	90	118	Ν	Convert Thru Lane	N	16.7	N		Ŷ	Convert a thru lane to a transit only lane
Known Known	Hennepin Ave E Hennepin Ave E	WilderSt BetweenBlocks	1-Way Stop	669	39.4	54.7	54.8	N	Convert Thru Lane	N		Ν		N	Bike lane and three thru lanes-not wide enough for transit only lane
Known	Hennepin Ave E	SE Main St Between Bleeke	Signalized	174	45.0	40	37.7	Ν	v	Ν	14.8	Ν		γ	Bike lane and thru lane not wide enough for queue jump lane
Known	Hennepin Ave E	Lourdes Pl	1-Way Stop	170	43.2	45.2	45.2	N		Ν		Ν		Ν	
Known Known	Hennepin Ave E Hennepin Ave E	2nd St SE	Signalized	236	45.2	47.6	47.9	N	Convert Thru Lane	Y	21.5	Ν		Y	Remove on street parking and restripe to fit queue jump lane
Known Known	Hennepin Ave E Hennepin Ave E	Between Blocks SE University Ave	Signalized	415	51.2	49.9	59	Ν	Convert Thru Lane	N	22.3	N		Y	Remove on street parking and restripe to fit queue jump lane
Known	Hennepin Ave E	Between Blocks	1.11/200 Chara	303	58	55.0	50.4	Ν	Υ	N				N	······
Known	SE University Ave	Bank St SE Between Blocks	1-way stop	290	60	55.8	58.4	Ν	Y	N		N		N	Remove on street parking and one transit lane can fit
Known Known	SE University Ave SE University Ave	Central Ave SE Between Blocks	Signalized	413	43.2	50.4	58	N	Y	Y	19.4	N	N/A	Y	Space available in existing busstop for queue jump
Known	SE University Ave	SE 2nd Ave Between Blocks	2-Way Stop	409	13	43.2	43.6	N	Maybo	Ν		Ν		Ν	Must remove parking lane for transit lane and accommodate right-side hike lane
Known	SE University Ave	SE 3rd Ave	Signalized	407	45	43.6	42.9	N	Waybe	Ν		Ν		γ	Mustremove parking interor transitione and accommodate right-side bike inte
Known Known	SE University Ave SE University Ave	Between Blocks Se 4th Ave	1-Way Stop	406	43.9	44.4	42.1	N	Maybe	N		N		N	Must remove parking lane for transit lane and accommodate right-side bike lane
Known Known	SE University Ave	Between Blocks	2-Way Stop	484	40.2	40 1	41.2	Ν	Maybe	N		N		N	Must remove parking lane for transit lane and accommodate right-side bike lane
Known	SE University Ave	Between Blocks	2-1103 5100	415	40	40.1	41.2	Ν	Maybe						Must remove parking lane for transit lane and accommodate right-side bike lane
Known Known	SE University Ave SE University Ave	Se 6th Ave Between Blocks	Signalized	409	45.4	42.2	42.7	Ν	Maybe	γ	21.2	N	N/A	Ŷ	Possible queue jump would impact bike lane. Need to remove parking
Known Known	SE University Ave SE University Ave	SE 7th Ave Between Blocks	2-Way Stop	412	42.6	40.2	43.4	N	Convert Thru Lane	Ν		Ν		N	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	SE University Ave	SE 8th ave	2-Way Stop	2/5 7	50.0	50.8	49.5	N	Convertitional and	Ν		Ν		Ν	
Known	SE University Ave	35wSB on ramp	Signalized	205.7	50.8	49.5	52.1	N	Convert Inru Lane	N	19.2	Ν		γ	Must remove trainic lane for transitiane and accommodate right-side bike lane
Known Known	SE University Ave SE University Ave	Between Blocks 35W NB frontage raod	Signalized	275	51.8	51.4	52.4	N	Convert Thru Lane	N	15.3	N	N/A	Y	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	SE University Ave	Between Blocks	Signalized	282	49.6	52.4	52.7	Ν	Convert Thru Lane	N	17.4	N	N/A	v	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	SE University Ave	Between Blocks	Signalizeu	402	46.1	32.4	32.7	Ν	Convert Thru Lane	N	17.4	N	N/A	T	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known Known	SE University Ave SE University Ave	11th Ave SE Between Blocks	Signalized	423	43.2	45.6	42.7	Ν	Convert Thru Lane	N	18.9	N	N/A	Ŷ	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known Known	SE University Ave SE University Ave	12th Ave SE Between Blocks	1-Way Stop	407	43.8	43.5	43.6	N	Convert Thru Lane	Ν		Ν		N	Must remove traffic lane for transit lane and accommodate right-side blke lane
Known	SE University Ave	13th Ave SE	1-Way Stop		50.5	44.1	52.8			Ν		Ν		Ν	
Known Known	SE University Ave	14th Ave SE	Signalized	411	50.5	50.6	50.2	N	Ŷ	N	18.6	Ν		γ	Remove on street parking to fit transit lane
Known Known	SE University Ave SE University Ave	Between Blocks 15th Ave SE	Signalized	411	50.9	51	42.9	N	Y	N	18	N	N/A	Y	Remove on street parking to fit transit lane
Known	SE University Ave	Between Blocks	1 Way Stop	411	42.3	12.2	41.1	Ν	Convert Thru Lane	N		N		N	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	SE University Ave	Between Blocks	1-way stop	408	42.7	42.3	41.1	Ν	Convert Thru Lane	N		N		IN	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known Known	SE University Ave SE University Ave	17th Ave SE Between Blocks	Signalized	414	42.3	41.4	43.1	N	Convert Thru Lane	N	17.8	Ν		Y	Must remove traffic lane for transit lane and ac commodate right-side bike lane
Known	SE University Ave	18th Ave SE Between Blocks	1-Way Stop	406	13.0	42.3	43.4	Ν	Convert Thrul ane	N		Ν		Ν	Must remove traffic lane for transit lane and accommodate right, side hike lane
Known	SE University Ave	19th Ave SE	Signalized		43.7	43.1	42.8		Convert mideanc	N	17.1	Ν		γ	
Known Known	SE University Ave SE University Ave	Between Blocks Walnut St SE	1-Way Stop	544	41.6	42.2	42.7	N	Convert ThruLane	N		Ν		Ν	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known Known	SE University Ave University Ave SE	Between Blocks Oak St SE	Signalized	380	47.6	81.2	52.7	N	Convert Thru Lane	N		N	20.1	Y	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	University Ave SE	Between Blocks	Signalized	466	57.8	42.2	42.5	Ν	Ν	N		N	14.0	v	Must remove traffic lane for transit lane
known Known	Oak St SE Oak St SE	Dak STSE Between Blocks	signalized	550	41.9	63.2	42.5	N	Convert Thru Lane	N		N	14.8	Ŷ	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known Known	Oak St SE Oak St SE	19th Ave SE Between Blocks	Signalized	397	41.6	40.7	41.1	N	Convert Thru Lane	N		Ν	17.9	Y	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	4th St SE	18th Ave SE Retwoon Placks	1-Way Stop	412	42.0	41.6	41.7	N	Convort Thru Lano	Ν		Ν		Ν	Must remove traffic lang for transit lang and accommodate right citie bike lang
Known	4th St SE	17th Ave SE	Signalized	415	42.7	43.9	40.8	IN .	Convert mid Lane	N		Ν	17.1	Y	
Known Known	4th St SE 4th St SE	Between Blocks 16th Ave SE	1-Way Stop	406	41.5	41.5	40.6	N	Convert Thru Lane	N		N		N	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	4th St SE	Between Blocks	Simalized	406	52.6	50.3	/0.2	Ν	Convert Thru Lane	N		v	17 1	v	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	4th St SE	Between Blocks	Signalized	410	48.5	57.5	47.2	Ν	Convert Thru Lane				17.1		Must remove traffic lane for transit lane and accommodate right-side bike lane
Known Known	4th St SE 4th St SE	14th Ave SE Between Blocks	Signalized	146	46.9	47.9	46.8	N	Convert Thru Lane	N		N	17.2	Ŷ	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known Known	4th St SE 4th St SE	13th Ave SE Between Blocks	Signalized	405	42.8	49.4	43.3	N	Convert Thru Lane	N		N	16.3	Υ	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	4th St SE	12th Ave SE	2-Way Stop	/10	41.0	41.8	40.5	N	Convert The days	Ν		Ν		Ν	Must romana traffia lana far transit lana and
Known	4th St SE	11th Ave SE	2-Way Stop	412	41.9	42.9	42.4	N	Convert Infu Lane	N		Ν		N	wusi remove traffic iane for transi, iane and accommodate right-side bike lane
Known Known	4th St SE 4th St SE	Between Blocks 10th Ave SE	Signalized	413	41.1	40.2	51.7	N	Convert Thru Lane	N		N	15.7	Y	Must remove traffic lane for transit lane and ac commodate right-side bike lane
Known	4th St SE 4th St SE	Between Blocks	Signalized	285	50	50.9	51.8	N	Convert Thru Lane	N		N	17	Y	Must remove traffic lane for transit lane and accommodate right-side bike lane
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Alternative	Mainline Corridor Street	Cross Street	Intersection Typ	e Distance Betweer Intersections	FOC to FOC Dimensions (Between Blocks)	FOC to FOC Dimensions (Near side of Int moving S to N)	FOC to FOC Dimensions (Far Side of Int moving S to N)	Transit Only Lanes Both Directions?	- Transit Only Lane - One Way?	Queue Jump NB/EB?	Shoulder + Closest Lane Dimension (NB Xerxes/France EB University)) Queue Jump SB/WB?	Shoulder + Closest Lane Dimension (SB Xerxes/France WB 4th)	TSP?	Additional Notes
Known	4th St SE	Between Blocks	o: " !	271	51.5	54.5	54.0	N	Convert Thru Lane				10.0	v	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known Known	4th St SE 4th St SE	I-35W West Frontage Rd Between Blocks	Signalized	265	52	51.5	51.2	N	Y	N		N	18.3	Y	Must remove parking to fit transit lane
Known	4th St SE	8th Ave SE	2-Way Stop			52.9	40.7			N		Ν		N	
Known	4th St SE 4th St SE	Between Blocks 7th Ave SE	2-Way Stop	410	39.5	39.7	39.7	N	Convert Thru Lane	N		N		N	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	4th St SE	Between Blocks	2-110y 510p	415	39.8	57.7	57.7	N	Convert Thru Lane	N		in the second se		N	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	4th St SE	6th Ave SE	Signalized			39.7	41.2		0	N		Ν	17	Υ	
Known Known	4th St SE	Sth Ave SE	2-Way Stop	413	41	38.8	40.5	N	Convert InruLane	N		N		N	Nust remove traffic lane for transit lane and accommodate right-side bike lane
Known	4th St SE	Between Blocks		479	41.1			Ν	Convert Thru Lane						Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	4th St SE 4th St SE	4th Ave SE Between Blocks	Signalized	412	39.7	40.1	39.7	N	Convert Thrul ane	N		Ν	15.3	Y	Must remove traffic lane for transit lane and accommodate right-side hike lane
Known	4th St SE	3rd Ave SE	2-Way Stop		07.7	39.6	41			N		Ν		Ν	
Known	4th St SE	Between Blocks	2 May Stop	410	38.9	40.4	40.2	N	Convert Thru Lane	N		N		N	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	4th St SE	Between Blocks	2- way 5top	409	49.8	40.4	47.3	Ν	Convert Thru Lane	N		IN .		IN .	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	4th St SE	Central Ave SE	Signalized			49.5	54.7			Ν		Ν	17.1	Υ	
Known Known	4th St SE 4th St NE	Between Blocks Hennepin Ave E	Signalized	345	55.9	55.8	52.9	N	Ŷ	N		Y	21.6	Y	Must remove parking to fit transit lane Oueue jump fits if parking is removed
Known	4th St NE	Between Blocks	5	418	51.6			Ν	Υ						Remove on street parking to fit transit lane
Known	4th St NE 1st Ave NE	1st Ave NE Between Blocks	Signalized	/13	57 1	52.6	57.9	N	v	Ν		N	31.4	Y	No Queue jump due to turn in route Remove on street parking to fit transit lane
Known	1st Ave NE	University Ave NE	Signalized	415	57.1	57.3	51.3		•	N		N	10.6	Y	territye of street parking to ne transciane
Known	1st Ave NE	Between Blocks	Cineralizad	411	48.1	40.2	50.7	Ν	Convert Thru Lane	N		N	12.0	V	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known Known	1st Ave NE	2nd St NE Between Blocks	Signalized	427	49.5	48.3	50.7	N	Convert Thru Lane	N		N	12.8	Y	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	1st Ave NE	Main St NE	Signalized			50.4	43.7			N		Ν	17.6	Υ	, , , , , , , , , , , , , , , , , , ,
Known	1st Ave NE	Between Blocks	1-Way Stop	622	41	46.9	54.4	N	Convert Thru Lane	N		N		N	Must remove traffic lane for transit lane and accommodate right-side bike lane
Known	1st Ave NE	Between Blocks	1-way stop	1708	42.1	40.7	54.4	N	Convert Thru Lane	N		in the second se			Reallocate one of the three thru lanes
Known	1st Ave NE	N 1st St	Signalized	100	F1 F	118	57.6	N		N		Ν		Υ	No queue jump lanes due to turn in route
Known	N 1st st	N 1st Ave	Signalized	420	51.5	56.2	51.5	IN	N	N		N		γ	No queue jump lanes due to turn in route
Known	N 1st Ave	Between Blocks	-	425	51			Ν	N						
Known Known	N 1st Ave N 2nd St	N 2nd St Between Blocks	Signalized	408	47.9	48.8	46.9	N	N	N		N		Y	No queue jump lanes due to turn in route
Known	N 2nd St	Hennepin Ave	Signalized	100		47.2	74.2			N		Ν		γ	No queue jump lanes due to turn in route
Known	SE LIniversity Ave	SE Oak St	basilenni2			52 /	81.2			N	17.0	N	20.8	v	SR/MR Queue lane would be in a right turn lane. There are two dedicated right turn lanes for SR/
Known	SE University Ave	Between Blocks	Signalized	275	81.2	32.4	01.2	Ν	N		17.7	14	20.0		Median and Left turn lanes do not allow for transit lanes to fit
Known	SE University Ave	Ontario St SE	1-Way Stop	(00	77.0	78.5	76.7			Ν		Ν		N	
Known Known	SE University Ave	SE Huron Blvd	Signalized	609	11.9	84.5	73.5	N	N	Y	13.1	N	13.9	Maybe	TSP would be challenging due to LRT priority. Dedicated NB/EB right turn lane could be used for (
Known	SE University Ave	Between Blocks	-	316	74.2			Ν	Y						Restriping and removal of center median would allow for one transit lane
Known Known	SE University Ave	SE Washington Ave Between Blocks	1-Way Stop	342	66.9	74.2	66.9	N	Y	Ν		N		N	Restrining and removal of center median would allow for one transit lane
Known	SE University Ave	25th Ave SE	Signalized			67.3	67.5			Ν	12.2	Ν		γ	······
Known	SE University Ave	Between Blocks	1 Way Stop	397	68.4	60 1	60.1	Ν	Y	N		N		N	Restriping and removal of center median would allow for one transit lane
Known	SE University Ave	Between Blocks	1-way stop	423	68.8	00.1	07.1	Y	Y	N.		N			Restriping and removal of on street parking would allow for two transit lanes
Known	SE University Ave	27th Ave SE	Signalized		10.4	69.8	68.8	W.	X	Y	21.5	Ν		Υ	
Known Known	SE University Ave SE University Ave	Between Blocks St Marvs Ave SE	1-Way Stop	418	69.1	68.4	70.1	Ŷ	Ŷ	N		N		N	Restriping and removal of on street parking would allow for two transit lanes
Known	SE University Ave	Between Blocks		570	69.1			Ν	Y						Restriping and removal of center median would allow for one transit lane
Known	SE University Ave	29th Ave SE Between Blocks	Signalized	180	77 /	71	77.4	Ν	N	N	11.3	N	13.1	Maybe	TSP would be challenging due to LRT priority
Known	SE University Ave	Arthur Ave SE	1-Way Stop	100	77.4	76.8	77		N.	N		Ν		N	Egintaliin mealan, side talliing pavement shot wide choughtor transit only and
Known	SE University Ave	Between Blocks	1-Way Stop	204	75.6	82.0	75.6	Ν	N	N		Ν		Ν	Lightrail in median, side running pavement is not wide enough for transit only lane
Known	SE University Ave	Between Blocks	т-тиау этор	372	87	o3.8	13.0	N	N	IN .		IN .		IN	Lightrail in median, side running pavement is not wide enough for transit only lane
Known	SE University Ave	Malcolm Ave SE	Signalized			92.8	96.5			Ν	12.7	Ν	11.9	Maybe	TSP would be challenging due to LRT priority
Known Known	SE University Ave SE University Ave	Between Blocks Clarence Ave SE	Right in Right out	349	89.7	78.7	77.5	N	N	N		N		N	Lightrail in median, side running pavement is not wide enough for transit only lane
Known	SE University Ave	Between Blocks		842	88.1			Ν	Ν						Lightrail in median, side running pavement is not wide enough for transit only lane
Known	SE University Ave	Bedford St SE	Signalized	224	00.1	94	96.3	N	N	N	12.2	N		Maybe	TSP would be challenging due to LRT priority
Known	SE University Ave	Berry St	Signalized	324	99.1	99.1	38.6	N	IN	N	12.2	N		Maybe	NB/EB queue lane would be for a left turning movement. TSP would be challenging due to LRT pr
Known	Berry St	Between Blocks		660	39.6			Ν	γ						Restriping and removal of on street parking would allow for one transit lane
known Known	Berry St Territorial Rd	Between Blocks	1-way Stop	563	19.8	39.8	34.6	N	N	N		N		N	Remove all parking on private drive to accommodate transit lanes
Known	Territorial Rd	Bedford St SE	Yield			43.9	41.2			Ν		Ν		N	
Known Known	Bedford St SE Bedford St SE	Between Blocks University Ave NF	Signalized	512	43.1	42	94	Y	Y	N		N	10.5	Y	Transit lanes will fit Queue jump lane if for right turning movement
			- g. unicod												
Known	SE University Ave	SE 27th Ave	Signalized	100	20.0	68.8	39.1	N	v	N		Ν		Y	No Queue jump lanes due to turn in route
Known	SE 27th Ave	SE 4th St	1-Way Stop	4UX	34.8	39.8	41.7	N	•	N		N		N	No queue jump lanes due to turn in route
Known	SE 4th St	Between Blocks		816	41.7			Ν	Y						Remove on street parking to make transit only lane
known Known	SE 4TN ST SE 25th St	SE 25TN AVE Between Blocks	2-way Stop	389	46.3	39	46.2	N	Y	N		IN		IN	Remove on street parking to make transit only lane
Known	SE 25th St	SE University Ave	Signalized			46.4	67.3			Ν		Ν		Y	No queue jump lanes due to turn in route

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Transit Only Lanes - Both Directions (# of blocks)				Transit Only Lanes - One Way (# of blocks)					Queue Jump NB/EB (# of intersections)			Queue Jump SB/WB (# of intersections)			TSP (# of intersections)						
Route	Total Number of Intersections	Yes	Maybe	Convert Thru Lane	No	Length (Route Feet)	Yes	Maybe	Convert Thru Lane	No	Length (Lane Feet)	Yes	Maybe	No	Yes	Maybe	No	Yes	Maybe	Convert to Signal	No
Known E Line	138	4	1	0	130	1686	54	6	44	30	23382	13	1	124	6	0	132	74	5	1	58
4	40	8	0	0	29	3784	24	0	2	11	14529	2	0	38	2	0	38	17	0	1	22
5	41	10	0	0	29	4170	32	0	2	5	15933	3	0	38	4	0	37	14	0	3	24
6	25	1	1	0	22	657	18	1	0	5	11868	0	0	25	1	0	24	8	0	2	15







Hennepin Ave Between Maple St and Spruce Pl















Figure 6: Typical Section: Xerxes Avenue between 58th Street and 59th Street









Figure 7: Typical Section: France Avenue between 55th Street and 56th Street

France Ave S Between 55th St and 56th St







E Line Corridor Study

Appendix C

October 2019

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E Line Corridor Study – Appendix C | 1





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Study/CAD\EXHIBITS\StationGraphic

Corridor

Transit/MT/E Line

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Station & Transit Advantage Analysis Graphics

9/19/2019 Sheet 8

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Corridor

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S

36th

S Hennepin Ave

S Holmes Ave

S Humboldt Ave

35th S

S Irving Ave

S James Ave












Lincoln Ave

W Franklin Ave

Potential Station Location Studied by Other Projects



nepi

E

Stop

W 22nd St

Scott. Yane š 9091





intersections and 4-Way Stops.

Scott. Yane

š

Existing Bus Stop













On-street bike facility conflict to be blved

- Sufficient ROW width available
- Length 80' platform achievable Notes
- Width Insufficient width for bumpout platform - Sufficient width for curbside platform
- resolved
- Notes - Sufficient ROW width available - On-street bike facility conflict to be
- Length - 80' platform achievable
- Width Insufficient width for bumpout platform
 Sufficient width for curbside platform

16th

(J)

Width

Laur

Length 80' platform achievable Notes - Sufficient ROW width available On-street bike facility conflict to be resolved

Jindle

Hennepin Ave

Hennepin Ave

Insufficient width for bumpout platform Sufficient width for curbside platform

Potential **Station Location**

- 80' platform achievable

- Width

Length

Notes

S Maple St

Insufficient width for bumpout platform
 Sufficient width for curbside platform

curbside platform more simplistic over a

Nidth

Length

C

bumpout

- Bike lane in this quadrant makes

Oak Grove St

- Existing bus stops located in private ROW new platform feasib

0

P

- 80' platform achievable Notes

Width

- Potential impact to existing planter beds if platform is curbside
- Length - 80' platform achievable Notes

Sufficient width for bumpout platform Sufficient width for curbside platform

- Insufficient width for curbside platform
- Sufficient width for bumpout platform





Potential Station Location Studied by Other Projects

n Ave

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Potential Station Location Studied by Other Projects

10.6

11th St

S 6th St

S 7th St

S 8th St

S 9th St

S 10th St



E LINE CORRIDOR STUDY

Station & Transit Advantage Analysis Graphics

9/19/2019 Sheet 18

















E Line Corridor Study

Appendix D: Capital Cost Estimation Methodology and

Assumptions

October 2019

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Kimley *Whorn*

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Introduction

The Metro Transit E Line Bus Rapid Transit project is a planned improvement project that will substantially replace parts of Route 6 in the Hennepin Avenue corridor, one of the region's busiest transit corridors. Route 6 is the primary transit route along Hennepin Avenue and runs approximately 12 miles from Stadium Village to Southdale Center. This improvement project will provide better amenities, faster and more reliable service, and a better overall transit experience.

During the E Line Corridor Study, a cost estimate was prepared for each of the potential alignment alternatives along the corridor, including the current known E Line alignment. The cost estimate reflects the various refinements that were made during the corridor study based on the existing conditions of the alternative routes. This report summarizes the assumptions that were used to develop the cost estimate.

Alternatives Overview

Six different potential alignment alternatives were considered when assembling the cost estimate based on a graphic received by Metro Transit called "E Line – Advanced Alignment Alternatives". Figure 1 shows this graphic and lays out additional segment splits necessary for cost estimating to come up with a total cost for the E Line project. Each alternative alignment will run for approximately 12 miles from either West Gate Station or Stadium Village southward toward the Southdale Center. The route will vary from 44th Street to Southdale Center depending on the alignment. Table 1 below and Figure 1 below highlight the six potential alignments and their route combinations that were considered when pulling quantities for the cost estimate.

Alignment	Alignment Route Descriptions
1	Alt 4 (Segments 11, 7, 9 & 8) + Known E Line (Segments 5, 4, 3, & 2) + Segment 1A&1B
2	Alt 5 (Segments 11, 7, & 6) + Known E Line (Segments 5, 4, 3, & 2) + Segment 1A&1B
3	Alt 6 (Segments 11, 10, & 8) + Known E Line (Segments 5, 4, 3, & 2) + Segment 1A&1B
4	Alt 4 (Segments 11, 7, 9 & 8) + Known E Line (Segments 5, 4, 3, & 2) + Segment 1B
5	Alt 5 (Segments 11, 7, & 6) + Known E Line (Segments 5, 4, 3, & 2) + Segment 1B
6	Alt 6 (Segments 11, 10, & 8) + Known E Line (Segments 5, 4, 3, & 2) + Segment 1B

Table 1: Alignment Alternatives

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Figure 1: Advanced Alignment Alternatives

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Capital Cost Estimate Methodology

Capital cost estimates were prepared using a similar format to the D Line cost estimate that was provided to Kimley-Horn by Metro Transit as a template for the expected level of detail. The cost estimates were pulled together for the entirety of the E Line corridor and summarized into the alignment alternatives described above. The categories of items included in the cost estimate include platform construction, transit advantages, station elements (shelter/pylon purchases, fare collection, & station technology) and corridor technology. Soft costs were not included for professional/technical services such as engineering, construction services, insurance, and owner's costs as part of this cost estimate. Additional vehicle fleet costs and potential right-of-way acquisition costs were also excluded form the cost estimates that Kimley-Horn completed.

The following parameters were used to develop the capital cost estimate:

- **Base Year:** Year 2019 (Costs were not inflated to a specific anticipated construction year)
- Allocated Contingencies: Allocated contingencies are contingencies that are associated with each individual cost estimate category. These contingencies are meant to compensate for potential unforeseen work, quantity changes, and changes in unit costs as the project moves on to more detailed phases. The level of allocated contingency per item reflects the potential variability of those items. The following contingencies were used for the capital cost estimates:
 - Platform Construction 20%
 - Transit Advantages:
 - TSP Implementations and Queue Jump Lane Additions 20%
 - Transit Only Lanes 40%
 - Shelter/Pylon Purchases 20%
 - Fare Collection 10%

0

Station Technology – 10%



- Corridor Technology 20%
- Unallocated Contingency: A 20% unallocated contingency is included in the capital cost estimates. This contingency is applied to the total estimated capital cost for each alternative and is added to any specific estimating contingencies that are included or allocated to the various cost categories.

Corridor Technology & Fiber Cost Details

This category includes all costs associated with corridor technology & fiber/communications necessary for a new BRT line. The itemized list below and unit costs for these items were provided by Metro Transit from the D Line bus rapid transit project cost estimate. These values were inflated to match the current year (2019) and an estimated cost per linear foot was established for utilization on this cost estimate.

The items intended to be included in the overall category are listed below:

- Directional Boring
- Conduit
- Locate Wire
- Handhole
- Locate Post
- 144-strand cable (Furnish & Install)
- Splice & case
- OH/Admin

Stations

This category includes costs associated with station platform construction, shelters, pylons, fare collection machines, and various other technology. All unit costs were provided by Metro Transit, and the typical unit cost line items in this category include:

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- Platform Construction Descriptions of the types of platform construction and an explanation of unit pricing is shown below:
 - o Standard
 - This includes standard "Pocket Construction" where platforms are constructed independently of other roadway reconstruction projects in the area. This includes all stations outside of downtown (defined below) and the unit price was provided by Metro Transit from the D Line Estimate.
 - o Urban (Downtown)
 - This includes the cost for construction of station platforms in an urban environment, which included all stations north of Franklin Ave except for those that are coordinated with roadway reconstruction projects. The unit price for these stations were calculated by averaging the bid prices received and engineer's estimate from the 8th Street BRT project (spreadsheet provided by Metro Transit). Due to the complexity of the work in downtown the cost for these stations are slightly higher than standard platform construction.
 - Hennepin North (Coordinated w/Street Project)
 - This includes the cost of station construction between 12th St and Washington Ave in Downtown. Most of the station infrastructure will already be in place when E Line is constructed in coordination with the Hennepin Ave project. Based on this a unit price of \$25,000 was used for each station, per Metro Transit's direction, to account for the additional work that may be required.
 - Hennepin South (Coordinated w/Street Project)
 - Some of the infrastructure will also be in place between 36th Ave and Lake Street when E Line is constructed, and these stations were quantified separately per Metro Transit direction. The unit price is the

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same as standard platform construction per direction from Metro Transit.

- Shelter Includes two large shelters per station (one per platform)
- Pylon Includes two 2nd generation pylons per station (one per platform)
- Fare Collection Includes four ticket vending machines (TVM) and two fare card validators (FCV) per station
- Technology Includes TVM cameras, switch, FP module, Power Supply, Support, accessories, computer, mounting, warranty, and accessories

Depending on the individual site constraints present at each platform location, station platforms will be constructed as a bumpout or a curbside configuration with a minimum length of 60 feet. This estimate did not designate the station type but applied the same unit cost at this level of design. A description of the station intersections included in each alignment alternative are described below:

The following stations are included in all alternative alignments:

- University Ave/4th St and 15th Ave
- University Ave/4th St and 10th Ave
- University Ave/4th St and 6th Ave
- University Ave/4th St and Central Ave SE
- 1st Ave and 2nd St
- Hennepin Ave and 2nd St
- Hennepin Ave and MCTC
- Hennepin Ave and Groveland Ave
- Hennepin Ave and Franklin Ave

- Uptown Transit Station
- Hennepin Ave and 25th st
 - Hennepin Ave and 33rd St
 - Hennepin Ave and 36th St
 - Richfield Road and William Berry • Pkwy
 - Sheridan Ave and 39th St
 - Stadium Village
 - Westgate Station (Only included in segment 1A Alternatives)

The following are proposed stations along the Alternative 4 alignment from Xerxes Ave and 44th Street to the Southdale Center:

- Upton Ave/Sheridan Ave & 43rd St
 Xerxes Ave and 47th St

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E Line Corridor Study – Capital Cost Estimation Methodology | 8

- Xerxes Ave and 50th St
- France Ave and 47th St
- France Ave and 50th St
- France Ave and 54th St

- France Ave and 58th St
- France Ave and 62nd St
- 65th St and Fairview Hospital
- Southdale Center

The following stations are proposed stations along the Alternative 5 alignment from Xerxes Ave and 44th Street to the Southdale Center:

- 44th St and Chowen Ave
- France Ave and Sunnyside Rd
- France Ave and 47th St
- France Ave and 50th St
- France Ave and 54thSt

- France Ave and 58th St
- France Ave and 62nd St
- 65th St and Fairview Hospital
- Southdale Center

The following stations are proposed stations along the Alternative 6 alignment from Xerxes Ave and 44th Street to the Southdale Center:

- Upton Ave/Sheridan Ave & 43rd St
- Xerxes Ave and 47th St
- Xerxes Ave and 50th St
- Xerxes Ave and 53rd St
- Xerxes Ave and 56th St
- Xerxes Ave and 60th St
- Xerxes Ave and 64th
- Southdale Center



The following stations will have most of the required infrastructure built as part of the Hennepin Avenue Reconstruction Project (anticipated construction starting in 2020). Costs were reduced for these stations as they will be constructed prior to the rest of E Line:

- Hennepin Ave/4th St and 3rd St
- Hennepin Ave and 5th St
- Hennepin Ave and 8th St
- Hennepin Ave/10th St and 11th St

Transit Advantages

The E Line corridor study also included costs for transit advantages in the capital cost estimate. Transit advantages include anything that helps improve the travel time and level service for the BRT system. Unit costs were developed for the following transit advantages and each alignment alternative was studied to determine where these could be implemented:

- Transit Signal Priority (TSP) Implementation at existing signal This cost includes required modifications to an existing traffic signal
- TSP Implementation at existing 4-way stop This cost includes constructing a new traffic signal with TSP capabilities.
- Addition of Queue Jump Lane Includes costs for signal modifications and roadway improvements (signing/striping only).
- Addition of Transit Only Lane (Striping Modifications) Includes costs for signing and striping modifications only (no roadway improvements)
- Addition of Transit Only Lane (Curb & Striping Modifications) Includes costs for pavement, aggregate base, excavation, and curb & gutter modifications.
 - o Required if modifications to curb will be necessary

Capital Cost Estimate Summary

Table 2 below summarizes the capital costs for each of the alignment alternatives described above. Costs are shown in 2019 dollars.

	Alignment Alternative						
	Alternative 4	Alternative 5	Alternative 6	Known E Line (to Stadium	Known E Line (to Westgate		
Platform Construction	\$7,000,000	\$7,880,000	\$6,130,000	\$16,690,000	\$18,560,000		
Shelter/Pylon Purchases	\$1,410,000	\$1,590,000	\$1,240,000	\$3,180,000	\$3,540,000		
Fare Collection	\$780,000	\$870,000	\$680,000	\$2,140,000	\$2,330,000		
Station Technology	\$260,000	\$300,000	\$230,000	\$700,000	\$760,000		
Corridor Technology	\$460,000	\$450,000	\$320,000	\$860,000	\$960,000		
Construction Total	\$10,180,000	\$12,130,000	\$9,450,000	\$25,730,000	\$28,360,000		
Non-fleet Subtotal	\$10,180,000	\$12,130,000	\$9,450,000	\$25,730,000	\$28,360,000		
Unallocated Contingency	\$2,040,000	\$2,430,000	\$1,890,000	\$5,140,000	\$5,670,000		
Non-fleet Project Total	\$12,220,000	\$14,560,000	\$11,340,000	\$30,870,000	\$34,030,000		



E Line Corridor Study

Appendix E

October 2019

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E Line Corridor Study – Appendix E | 1

Table 1: E Line Cost Estimates

E Line Corridor - Cost Alternatives 10/29/2019

		Project Quar	ntities				Extensic	on (Rounded Numbers -	Split By Alter
ALTERNATIVE	Known ELine + Seg 1A&1B	Known E Line + Seg 1B	Alternative 4	Alternative 5	Alternative 6	Known E Line + Seg 1A&1E	3 K	nown ELine + Seg 1B	Alternativ
PLATFORM CONSTRUCTION Urban (Downtown) Standard Hennepin North (Coordinated w/ Street Project) Hennepin South (Coordinated w/Street Project)	26 10 8 4	22 10 8 4	0 16 0 0	0 18 0 0	0 14 0 0	\$ 18,560,00	0\$	16,690,000	\$ 7,000,0
TRANSIT ADVANTAGES TSP Implementation at existing signal TSP Implementation at existing 4-way stop Add Queue Jump Lane Add Transit Only Lane (Striping Modifications) Add Transit Only Lane (Curb & Striping Modifications)	83 0 20 34489 0	79 0 20 34489 0	12 0 6 2192 0	12 2 9 2192 0	7 2 1 0 0	\$ 2,210,00	0\$	2,160,000	\$ 270,0
SHELTER / PYLON PURCHASES Small Medium Large Pylon (2nd Gen)	0 0 40 40	0 0 36 36	0 0 16 16	0 0 18 18	0 0 14 14	\$ 3,540,00	0\$	3,180,000	\$ 1,410,0
FARE COLLECTION TVM FCV TVM Cameras	96 48 96	88 44 88	32 16 32	36 18 36	28 14 28	\$ 2,330,00	0\$	2,140,000	\$ 780,0
STATION TECHNOLOGY Ethernet Switch Switch SFP Module Power Supply Support Accessories Passenger Info System Computer Mounting Warranty Accessories	48 88 40 40 192 48 48 48 48 48	44 80 36 36 176 44 44 44 44	16 32 16 16 64 16 16 16 16	18 36 18 18 72 18 18 18 18 18	14 28 14 14 56 14 14 14 14 14	\$ 760,00	0\$	700,000	\$ 260,0
CORRIDOR TECHNOLOGY Fiber Optic installation (Linear Feet)	55311	49409	26458	26176	18738	\$ 960,00	0\$	860,000	\$ 460,0
CONSTRUCTION TOTAL STAFF TIME ENGINEERING ROW						\$ 28,360,00	0\$	25,730,000	\$ 10,180,0
NON-FLEET SUBTOTAL UNALLOCATED CONTINGENCY						\$ 28,360,00 \$ 5,670,00	10 \$ 10 \$	25,730,000 5,140,000	\$ 10,180,0 \$ 2,040,0

NON-FLEET PROJECT TOTAL	\$	34,030,000 \$	30,870,000 \$ 12,220,00
FI FFT			
Diesel articulated bus Electric Increment	\$ \$	- \$ - \$	- \$ - - \$ -
Project total with base (diesel) fleet	\$	34,030,000 \$	30,870,000 \$ 12,220,00
Project total with electric fleet	\$	34,030,000 \$	30,870,000 \$ 12,220,00

ternat	ive)	
tive 4	Alternative 5	Alternative 6
0,000,0	\$ 7,880,000	\$ 6,130,000
0,000	\$ 1,040,000	\$ 850,000
0,000	\$ 1,590,000	\$ 1,240,000
0,000	\$ 870,000	\$ 680,000
0,000	\$ 300,000	\$ 230,000
0,000	\$ 450,000	\$ 320,000
0,000	\$ 12,130,000	\$ 9,450,000
0,000 0,000 0,000	\$ 12,130,000 \$ 2,430,000 \$ 14,560,000	\$ 9,450,000 \$ 1,890,000 \$11,340,000
-	\$ - \$ -	\$ - \$ -
0,000	\$ 14,560,000	\$11,340,000
0.000	\$ 14,560,000	\$11.340.000



E Line Corridor Study

Appendix F

October 2019

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E Line Corridor Study – Appendix F | 1



Date: September 21, 2019
To: Lisa Wall and Mary Karlsson, Kimley-Horn
From: Ashutosh Kumar, Connetics Transportation Group, Inc. (CTG)
Re: E-Line Corridor Study – Task 2 Ridership Tech Memo

Introduction

This technical memorandum summarizes CTG's assessment of the ridership potential for the advanced E Line Corridor alternatives. The E Line is a planned rapid bus (arterial BRT) line that will substantially replace parts of Route 6 in the Hennepin Avenue corridor in Minneapolis. The purpose of the ridership task was to develop order of magnitude ridership forecasts for the E Line alternatives using methodologies that do not require detailed level of transit service inputs, generate results that can be compared across alternatives, and incorporate the impacts of both E Line and the underlying local bus services. Metro Transit staff provided the three advanced alternatives to be evaluated for ridership potential.

The technical memorandum provides a brief summary of the existing conditions in the E Line corridor, followed by an overview of the modeled alternatives, ridership results and the key findings.

Existing Conditions

Existing Service Levels

The E Line corridor is currently served by Route 6, primarily between Southdale Transit Center and University of Minnesota (approximately 12 miles). Downtown Minneapolis is the key destination, with Route 6 serving the market every 6-7 minutes during the peak periods and every 10 minutes during the midday period on a weekday. Different patterns of Route 6 operate during the day, including trips that go further south to the Edinborough Industrial Park and to the northwest quadrant of Interstate 494 and Highway 100 in Edina. The local bus serves over 160 stops in each direction, operating at an average speed of 12.2 miles per hour. Other key routes that serve part of the corridor/market are Routes 2, 4, 12, 17, 113, 122, 535, and Green Line.

Existing Ridership Levels

Route 6 is one of the most productive routes in the Metro Transit system, averaging approximately 8,600 boardings per weekday in the year 2016 (when the last systemwide on-board survey was conducted in the region). 55 percent of the boardings on Route 6 occur during the AM and PM peak periods. 40 percent of the trips are from households without a car. The travel patterns are mainly home-oriented trips with 91 percent of the trips starting at home. Overall, 43 percent of the trips are home-based-work (HBW) trips and 48 percent of the trips are home-based-other (HBO) trips.

The primary destinations of the Route 6 riders are downtown (37 percent) and University of Minnesota (15 percent). 31 percent of the trips originate from the Hennepin Avenue portion of the route south of the downtown (i.e. in and around Uptown Transit Center area).



Figure 1 shows the 2016 ridership data on Route 6. A vast majority of the ridership activity (86 percent) occur at stops north of West 44th Street. The two Route 6 branches, along France Avenue and Xerxes Avenue, have relatively low but similar level of ridership activity.



Figure 1: Route 6 Stop-Level Boardings

Modeled Alternatives

Three alternatives were considered by Metro Transit for further evaluation based on the feedback received from Technical Advisory Committee, corridor stakeholders, policy makers, and the public. These proposed alternatives would provide 10-minute all day rapid bus service between Southdale Transit Center and Stadium Village Station/Westgate Station (terminus to be



determined). The E Line service would stop at 30 stops and on an average run at 15.5 miles per hour travel speed, a 20-25 percent improvement in run time compared to the existing Route 6 service.

Along with the proposed local bus service changes, the alternatives provide substantial increase in transit service in the corridor. The following summarizes the key changes to the service:

- University of Minnesota is served by six trips every hour during the peak and off-peak periods in all three alternatives compared to three to four trips every hour currently served by Route 6
- The number of trips serving downtown during the off-peak period goes up by three trips every hour under all three alternatives compared to the current Route 6 service
- Travel time on the E Line will be 20-25 percent faster than the time it currently takes on Route 6
- The three alternatives are similar in terms of vehicle miles and vehicle hours, except for the additional Route 36 service between Southdale Transit Center and Uptown Transit Center in Alternatives 4 and 5.

Table 1 shows that the existing Route 6 boardings along the three proposed alternatives are similar.



Figure 2: Modeled Alternatives





Table 1: Route	6 Boardings by	Various E Line	Segments	(Refer to	Figure 2 fo	r Segment
Definition)						

Segment	Boardings
Common Segment	7,400
(Xerxes & 44 th St to Univ & 27 th Ave)	
Alt 4 Segment	410
(Orange Segment)	
Alt 5 Segment	310
(Green Segment)	
Alt 6 Segment	400
(Red Segment)	

Ridership Methodology

After internal discussions and considering the alternatives advanced for ridership evaluation, the study team decided to use STOPS model for ridership forecasting. STOPS has been successfully used for similar studies across the country. It provides detailed evaluation measures that were helpful in selecting/refining the final alternative (stop/segment-level activities, route-level impacts on competing/connecting routes, overall transfer activities, new transit trips, VMT impacts etc.). In addition, STOPS outputs can also be used for evaluating accessibility measures.

A reasonably well calibrated STOPS model from the ongoing Gold Line and Rush Line studies was readily available to the team, which could be used for the E Line corridor with minor adjustments within project schedule and budget. The model utilizes version v2.5 of STOPS (release date: 5/25/2018) and uses the 2016 systemwide on-board survey. The modeling years are 2016 (Current Year) and 2040 (Horizon Year) and represents an annual average weekday estimate of travel. It should be noted that this E Line STOPS model does not reflect the ongoing updates to the model based on FTA's feedback on representation of park-and-ride trips in the region; although, this update is not likely to impact the E Line corridor analysis.

The initial ridership results from STOPS application showed high diversion of trips to the E Line from parallel/competing routes and appeared to be very sensitive to the "travel time savings" offered by E Line. It was proposed that a lower end of ridership estimates be developed by modeling another scenario where travel time savings on the E Line are half of the current estimates (i.e. average end-to-end speed on E Line is ~14 mph instead of ~15.5 mph). The lower speed may be more realistic north of Uptown Transit Center because of much higher ridership activities and denser land uses.

Ridership Results

STOPS provides both current year and horizon year estimates. A range of ridership estimates is presented in this section based on different assumptions on the travel time savings offered by E Line. The STOPS results suggest that the three alternatives are similar to each other in terms of ridership, which ranges from 8,600 to 10,300 on the E Line service and from 11,400 to 12,300 for the corridor in the current year 2016. This represents a 33%-43 percent increase in the overall



ridership in the corridor routes (E Line, Route 6, and Route 36). One-third of the increase is due to riders new to transit and the remaining two-third increase is due to diversion on trips from other routes in the system to the corridor routes because of the enhanced service.

The year 2040 ridership on Route 6 will increase by 15 percent (from 8,600 in 2016 to 9,900 in 2040) under the no build conditions (i.e. no changes to the Route 6 service), which reflects a generally built-out nature of the corridor. Similar to the current year estimates, a further 33-45 percent increase in ridership can be expected on the corridor routes in 2040 and the three alternatives will be similar in terms of 2040 ridership forecasts. The E Line ridership will range between 9,800 to 12,100, and the corridor ridership will be between 13,200 to 14,400. Tables 2 and 3 provide a summary of the current year and horizon year ridership estimates.

Table 4 shows the segment level boardings on E Line for the horizon year. Almost 87 percent of the boardings on the E Line occur in the common segment between the three alternatives, i.e. north of 44th Street.



Route	Observed	Alt 4 Build		Alt 5 Build		Alt 6 Build	
		Low	High	Low	High	Low	High
E Line		8,600	10,100	8,700	9,900	9,200	10,300
Route 6	8,600	2,400	1,700	2,600	1,900	2,300	2,000
Route 36		400	400	300	300	-	-
Corridor Total	8,600	11,400	12,200	11,600	12,100	11,600	12,300
Change cf. Observed		+33%	+42%	+35%	+41%	+35%	+43%

Table 2: Current Year 2016 Ridership Estimates (Low- and High-End Estimates)

Table 3: Horizon Year 2040 Ridership Estimates (Low- and High-End Estimates)

	2040 No Build	2040 Alt 4 Build		2040 Alt 5 Build		2040 Alt 6 Build	
Route		Low	High	Low	High	Low	High
E Line		9,900	11,900	9,800	11,600	10,800	12,100
Route 6	9,900	2,900	2,000	3,200	2,200	2,600	2,300
Route 36		500	500	400	400		
Corridor Total	9,900	13,200	14,300	13,400	14,200	13,400	14,400
Change cf. No Build		+33%	+44%	+35%	+43%	+35%	+45%

Table 4: Horizon Year 2040 Boardings on E Line by Various Segments

Segment	Alt 4	Alt 5	Alt 6
Common Segment (Xerxes & 44 th St to Univ & 27 th Ave)	8,600-10,600	8,800-10,400	9,400-10,800
Segment with Different Alignments (south of Xerxes & 44 th St)	1,200-1,300	1,000-1,100	1,300-1,300



Summary

The ridership forecasts suggest that all three alternatives are very similar from a ridership perspective. The year 2040 E Line ridership estimate is between 10,000-12,000, while the corridor 2040 ridership estimation will be in the range 13,000-14,500. Based on Metro's A Line experience and observed ridership elasticities, ridership can be expected to be on the lower end of the range provided above. In addition, similar to the existing Route 6 ridership activity, most (87 percent) of the boardings will occur north of 44th Street.



E Line Corridor Study

Appendix G

October 2019

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E Line Corridor Study – Appendix G | 1



Date: September 26, 2019
To: Lisa Wall and Mary Karlsson, Kimley-Horn
From: Ashutosh Kumar, Connetics Transportation Group, Inc. (CTG)
Re: E-Line Corridor Study – Task 11 Aggregate Measures Evaluation Tech Memo (DRAFT)

Introduction

This technical memorandum summarizes the metrics used to evaluate the aggregate network impacts of the three advanced E Line alternatives. The E Line is a planned rapid bus (arterial BRT) line that will substantially replace parts of Route 6 in the Hennepin Avenue corridor in Minneapolis. The purpose of this task was to confirm that the build alternatives overall perform better than the existing service and to evaluate the differences between the three build alternatives in terms of aggregate network effects measures.

The technical memorandum provides a brief explanation of the measures used and the results to evaluate the network effects of the three advanced E Line alternatives.

Evaluation Measures and Results

Three measures were evaluated for the E Line study that provide overall network effects of the build alternatives. The range provided for the first two measures in the sections below represents two modeling scenarios used in STOPS to provide a potential ridership range for E Line.

1. Automobile Person Miles Traveled (PMT) Savings

This measure evaluates the extent of the reduction in automobile travel in the region because of the improvements in transit service. The automobile travel savings will be due to the diversion of automobile trips to transit.

This measure is derived directly from STOPS output. STOPS estimates new transit trips and distance between each Traffic Analysis Zone (TAZ) pair in the region. The sum of the product of new transit trips and distance over all TAZ pairs is the automobile person miles traveled savings.

Table 1 provides the PMT savings for the three alternatives for the current year 2016 conditions. As can be seen from the table, the three alternatives are basically similar in terms of PMT savings.

Alternative	PMT Savings
Alt 4	8,700-10,800 Miles
Alt 5	8,800-10,600 Miles
Alt 6	8,100-10,100 Miles

Table 1: PMT Savings Over Existing Conditions (Year 2016)



2. Person Hours Traveled (PHT) Savings

This measure evaluates the total person hour travel savings for the existing riders due to enhanced transit service in the E Line corridor. It is calculated using STOPS outputs of the existing transit trips and the travel time changes between build and existing alternatives, summed over all TAZs.

Table 2 provides the PHT savings for all three alternatives for the current year. All three alternatives save few minutes of travel time for the existing corridor riders as reflected in the table. The hours in the table corresponds to 2-5 minutes of average travel time savings for the riders, assuming 8,600 total existing Route 6 boardings. Alternative 6 performs slightly better and saves an average of 2 minutes more than the other alternatives (for existing Route 6 riders). This is because of the slightly faster E Line service in Alternative 6 compared to Alternative 4 and Alternative 5 and one seat ride to downtown for patrons along Wooddale Avenue and France Avenue.

Alternative	PHT Savings
Alt 4	320-400 Hours
Alt 5	310-390 Hours
Alt 6	600-730 Hours

Table 2: PHT Savings over Existing Conditions (Year 2016)

3. Access to Jobs Measure

This methodology used for E Line is similar to the one developed by University of Minnesota's Accessibility Observatory (<u>http://access.umn.edu/publications/america/</u>). The measure accounts for transit service coverage, frequency of service, time period, transfer opportunities, accessibility to transit stops and bus speeds.

For its application in the E Line study, TAZs from the STOPS model was used as the geography for analysis (as opposed to Census blocks used in the University of Minnesota method). The demographics data was obtained from the 2014 Metropolitan Council TAZ regional model (employment) and the 2006-2010 ACS CTPP (workers). The pedestrian network was represented by the TIGER street layer used in STOPS and the transit network was represented by the GTFS network for each alternative. The travel time components – walk time, wait time, in-vehicle time and transfer time – are obtained from the E Line STOPS output files.

Average Number of Jobs Accessible to each Worker within 60 minutes

This measure provides the average number of jobs accessible to each worker in the region by transit within 60 minutes. The travel time includes walk time, wait time, transfer time and in-vehicle time during the AM peak as obtained for each TAZ pair from STOPS. The average is weighted by the number of workers in each TAZ.

Table 3 provides the estimated number of jobs (obtained from Metropolitan Council's TAZ level employment estimates for the year 2014) accessible to each worker (obtained from 2006-2010 ACS CTPP data) for existing conditions and the three alternatives. It shows that the build



alternatives show slight increase in the job accessibility over the existing conditions. All three alternatives are very similar in terms of job accessibility.

Alternative	# Jobs Accessible
Existing	87,500
Alt 4	89,000
Alt 5	89,000
Alt 6	90,000

Table 3: Average Number of Jobs (2014 Employment) Accessible to each Worker by Transit

Weighted Accessibility Index

Weighted accessibility measure is an index that gives more weightage to destinations/jobs reachable in shorter travel times compared to destinations/jobs reachable in longer times. In other words, the alternative that provides access to more destinations/jobs in shorter travel time performs better than the other alternatives. This index is unitless and can be used for comparative purposes only. The detailed methodology on Weighted Accessibility Ranking is available at http://cts.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=2920.

Table 4 presents the index value for the existing and the three alternatives. The build alternatives show slight increase in the weighted accessibility measure and the three alternatives are very similar to each other.

Alternative	Weighted Accessibility Index
Existing	1,307
Alt 4	1,326
Alt 5	1,327
Alt 6	1,357

Table 4: Weighted Accessibility Index by Alternative

60-Minute Accessibility Values at TAZ Level

Figures 1, 2 and 3 show the change in number of jobs (2014 employment) accessible within 60 minutes of transit during the AM peak for the three alternatives in comparison to the existing network. All three figures indicate a significant improvement in accessibility along the E Line segments which provides enhanced service. Some locations show reduced accessibility because of small reduction in overall service or due to the increased stop spacings on the rapid bus. It should be noted that some of the small variations observed in these figures is because of the size of TAZs used in STOPS.



Figure 1: Alternative 4 – Change in Number of Jobs Accessible within 60 minutes for each TAZ



Alt 4: Change in Number of Jobs Accessible by Transit within 60 minutes during AM peak (Alt - Existing)


Figure 2: Alternative 5 – Change in Number of Jobs Accessible within 60 minutes for each TAZ



Alt 5: Change in Number of Jobs Accessible by Transit within 60 minutes during AM peak (Alt - Existing)



Figure 3: Alternative 6 – Change in Number of Jobs Accessible within 60 minutes for each TAZ



Alt 6: Change in Number of Jobs Accessible by Transit within 60 minutes during AM peak (Alt - Existing)

Summary

This analysis confirms that all the three advanced build alternatives show net positive aggregate benefits compared to the existing service using the three measures presented in this technical memorandum. It also confirms that the three build alternatives are very similar to each other in terms of the overall network effects.



E Line Corridor Study

Appendix H

October 2019

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Appendix H

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