Uptown BRT Project

2013 vs Proposed 2015 Modeling Assumptions

Assumptions	2013 Analysis	2015 Analysis	
Employment & Population			
Study area population-2018	10,500	Use updated data from H-GAC	
Study area employment-2018	84,450	Use updated data from H-GAC	
Study area population-2035	19,400	Use updated data from H-GAC	
Study area employment-2035	89,300	Use updated data from H-GAC	
BRT headway			
Peak	5 min	METRO recommends testing 6 and 8 minutes peak headway. Final headway will be derived based on 11 buses (14 including spares) and travel time.	
Off-peak	5 min	METRO recommends testing 12 minutes off-peak headway. Final headway will be derived based on 11 buses (14 including spares) and travel time.	
DDT young twin troval time			
BRT round trip travel time Mixed flow	42 min	N1/A	
	42 min	N/A	
Elevated busway	28 min	32 minutes (based on average speed assumptions below)	
Average speed (for Elevated busway option)		Current 33 Post Oak averages 11 MPH between NWTC and proposed BUTC. Recent incomplete work by Uptown suggests speeds slower than 14 MPH on Post Oak. METRO is conducting its own analysis which is underway. At this time, METRO suggests following speeds)	
Average speed for Post Oak bus lanes (Peak)	14 MPH	12 MPH	
Average speed for Post Oak bus lanes (Off peak)	14MPH	12 MPH	
Average speed for elevated busway (Peak)	45 MPH	40 MPH	

Average speed for elevated busway (Off peak)	45 MPH	40 MPH		
Maximum acceleration rate	2.7 ft/sec ²	2.7 ft/sec ²		
Transfer time @NWTC	1 min	2 min		
Transfer time @BUTC	2 min	3 min		
Free fare transfers from Commuter buses & local	Yes	Yes		
Dwell time	20 sec	20 sec (to be included in the red band (signalization) at each station)		
Fares	\$1.25	\$1.25		
Capacity constraint on BRT	No	No		
Used scaled down LRT bias	Yes	Yes		
Underlying Bus network in 2018	Current bus network	New Bus Network		
Underlying Transit network in 2035	2035 RTP (includes Ph III rail Expansion)	2035 RTP (includes Ph III rail Expansion)		
Parking demand at BUTC	Not restricted	Restrict to 100 spaces		
Parking demand at NWTC	Not restricted	Restrict to 500 spaces		
Number of stations	9	8		
P&R Assumptions	Please see the following page	Please see the following page		

Park and Ride bus assumptions (2013)

Park and Ri		Description	Direction	Hea	dway	
Corridor/Type R	Route			Peak	Off-Peak	Comments
Northwest	214	Northwest Station	Inbound	5	N/A	No Change
	214	Northwest Station	Outbound	5	N/A	Stops at NWTC
	216	W. Little York/Pinemont	Inbound	12	N/A	Stops at NWTC
	210		Outbound	12	N/A	Stops at NWTC
	217	Cypress	Inbound	10	N/A	Stops at NWTC
	217		Outbound	10	N/A	Stops at NWTC
	206	W. Little York	To Galleria	15	N/A	Stops at NWTC
	286		From Galleria	15	N/A	Stops at NWTC
	224	Kingsland	Inbound	5	N/A	Stops at NWTC
	221a		Outbound	5	N/A	Stops at NWTC
	2245	Min and and	Inbound	20	N/A	Stops at NWTC; Pk Hdwy
	221b	Kingsland	Outbound	20	N/A	Improved Peak Headway
	222	Grand Parkway	Inbound	5	N/A	Stops at NWTC
	222		Outbound	5	N/A	Stops at NWTC
	220	Addicks	Inbound	6	N/A	Stops at NWTC
I/-I	228		Outbound	6	N/A	Stops at NWTC
Katy		Kingsland/Addicks	Inbound	N/A	45	No Change
	229		Outbound	N/A	45	No Change
	200-	Addicks/NWTC	To TMC	20	N/A	Stops at NWTC
	298a		From TMC	20	N/A	Stops at NWTC
	298b	Addicks/NWTC	To TMC	20	N/A	No Change
			From TMC	20	N/A	No Change
	274	Westchase/Gessner	Inbound	15	N/A	Stops at BUTC
	262a	Westwood	Inbound	10	N/A	Stops at BUTC
	2028		Outbound	10	N/A	Stops at BUTC
	262b	Westwood	Inbound	30	N/A	No Change
			Outbound	30	N/A	No Change
	2650	West Bellfort	Inbound	5	N/A	Stops at BUTC
	265a		Outbound	5	N/A	Stops at BUTC
Southwest	265b	West Bellfort	Inbound	5	N/A	Stops at BUTC
			Outbound	5	N/A	Stops at BUTC
	200	Westwood/West Bellfort	Inbound	N/A	5	No Change
	269		Outbound	N/A	5	No Change
	292	West Bellfort/Westwood/TMC	To TMC	15	N/A	No Change
			From TMC	15	N/A	No Change

Park and Ride bus assumptions (2015 – New Bus Network (NBN))

(Revised based on NBN and revised proposed service plan and P&R stopping pattern)

Corridor/Type	Route	Description	Direction	Current	Proposed	
				Headway	Headway	Comments
_			Inbound	7	7	Every trip stops at NWTC
	214	Northwest Station	Outbound	8	8	Every trip stops at NWTC
	216	W. Little York	Inbound	17	17	Every trip stops at NWTC
			Outbound	16	16	Every trip stops at NWTC
Northwest	217	Cypress	Inbound	6	6	Every trip stops at NWTC
			Outbound	10	10	Every trip stops at NWTC
	219	Northwest Station (Midday)	Inbound	60	60	Every trip stops at NWTC (Midday Service)
			Outbound	60	60	Every trip stops at NWTC (Midday Service)
Kat.	222	Grand Parkway	Inbound	11	22	Every other trip stops at NWTC
Katy	222		Outbound	14	28	Every other trip stops at NWTC
	228	Addicks	Inbound	9	18	Every other trip stops at NWTC
	228		Outbound	10	20	Every other trip stops at NWTC
	229	Kingsland/Addicks	Inbound	34	34	Every trip stops at NWTC
			Outbound	60	60	Every trip stops at NWTC
	298	Addicks/NWTC	To TMC	9	9	Every trip stops at NWTC
			From TMC	10	10	Every trip stops at NWTC
Southwest	262	Westwood	Inbound	13	26	Every other trip stops at BUTC
			Outbound	13	26	Every other trip stops at BUTC
	265	West Bellfort	Inbound	5	15	Every third trip stops at BUTC
			Outbound	8	24	Every third trip stops at BUTC
	269	Westwood/West Bellfort (Evening)	Inbound	60	60	Every trip stops at NWTC - Its only two trips in the evening
			Outbound	60	60	Every trip stops at NWTC - Its only two trips in the evening
	292	West Bellfort/Westwood/TMC	To TMC	16	16	Every trip stops at BUTC
			From TMC	19	19	Every trip stops at BUTC
Manhand	151	Westpark Express	Eastbound	8	8	Every trip stops at BUTC
Westpark			Westbound	8	8	Every trip stops at BUTC