

APPENDIX H: Estimated Quantities & Opinions of Probable Construction Cost – Station
Property Improvements



LBJ Central Station

Opinion of Probable Constr. Cost = \$36,200

Improvement Code Legend
ID: 3C-LC-ST-01
 3C ← Station Number ST ← Station Improvement
 LC ← Station Abbreviation
 01 ← Improvement Number (matches on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
3C-LC-ST-01	DART	Build sidewalk with relocated ramp	Add sidewalk and crosswalk to connect the existing station sidewalk to the LBJ Station Apartments. The current sidewalk ramp at the end of the sidewalk from the apartments that ends at the parking lot should be relocated to avoid a diagonal crosswalk across the parking lot aisle. Two to three parking spaces would be removed, but parking demand for this station appears to be well below capacity.	\$ 18,800
3C-LC-ST-02 3C-LC-ST-03	DART	Update Speed Limit Signs	Update speed limit signs to meet MUTCD standards.	\$ 1,700
3C-LC-ST-04 3C-LC-ST-05	DART	Build new ramps	Build ADA ramps for crosswalks.	\$ 11,000
3C-LC-ST-06	DART	Add new crosswalk	Add marked pedestrian crosswalk	\$ 1,400
3C-LC-ST-07	DART	Do Not Enter and Pedestrian Signs	At the bus loop entrance, update pedestrian warning signs to meet MUTCD standards. The existing signs have the wrong shape panel and do not have supplemental arrow plaques as required. Replace "DO NOT ENTER" signs with new signs including all capital letters to meet MUTCD standards.	\$ 3,300
Opinion of Probable Cost - DART Subtotal.....				\$ 36,200
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 36,200



DART Last Mile Connections Project - LBJ Central Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
3C-LC-ST-01	618	BARRIER FREE RAMP	Each	\$ 2,182.75	1	1	\$ 2,182.75	Relocate 1 existing ramp, Build new 175' sidewalk with 5' width, assume 6' wide crosswalk 24' long, diagonal 9' hatches at 6' spacing, remove existing concrete pavement 1' deep to build sidewalk bump-out for new ramp.
Build sidewalk with relocated ramp	355	4" THICK REINF CONC WALK	Sq. Yd.	\$ 63.00	97.22	98	\$ 6,174.00	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	84	84	\$ 756.00	
	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	210	210	\$ 840.00	
	407	CURB & GUTTER	Lin. Ft.	\$ 39.72	62	62	\$ 2,462.64	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
	201	REMOVE CONC PAVE DRIVE AND APRON	Sq. Yd.	\$ 71.00	17.96	18	\$ 1,278.00	
			Contingency				25%	
		Subtotal					\$ 18,800.00	
3C-LC-ST-02 3C-LC-ST-03	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	2 speed limit signs needs to be updated
Update Speed Limit Signs		Contingency				25%	\$ 325.00	
		Subtotal					\$ 1,700.00	
3C-LC-ST-04 3C-LC-ST-05	618	BARRIER FREE RAMP	Each	\$ 2,182.75	4	4	\$ 8,731.00	Build 4 new ramps for the existing crosswalk
Build new ramps		Contingency				25%	\$ 2,182.75	
		Subtotal					\$ 11,000.00	
3C-LC-ST-06	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	122.5	123	\$ 1,107.00	Assume 6' wide crosswalk 35' long with 9' diagonal hatches at 6' spacing
Add new crosswalk		Contingency				25%	\$ 276.75	
		Subtotal					\$ 1,400.00	
3C-LC-ST-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	4	4	\$ 2,600.00	2 DO NOT ENTER signs and 2 Pedestrian Signs
Do Not Enter and Pedestrian Signs		Contingency				25%	\$ 650.00	
		Subtotal					\$ 3,300.00	
Grand Total							\$ 36,200.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency

Forest Lane Station

Opinion of Probable Constr. Cost = \$15,400


Improvement Code Legend

ID: 3D-FL-ST-01

3D ← Station Number

ST ← Station Improvement

FL ← Station Abbreviation

01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
3D-FL-ST-01	DART	Lane Striping	Stripe a single lane for northbound traffic exiting the park & ride lot. This would allow space for two southbound lanes entering the lot. The reason is that the radius on the southwest corner of the intersection of Forest Lane and the station entrance is too tight. Buses turning right from eastbound Forest Lane were observed encroaching into the pedestrian space on the intersection corner. A high mast overhead electric pole and existing storm drain inlet constrain the radius from being enlarged.	\$ 3,200
3D-FL-ST-02 3D-FL-ST-03	DART	Update signs	Update pedestrian warning signs to meet MUTCD standards. The existing signs are fading, not retro-reflective, have the wrong shape panel, and do not have supplemental arrow plaques as required to meet MUTCD standards.	\$ 1,700
3D-FL-ST-04 3D-FL-ST-05	DART	Crosswalk Striping	Add crosswalk markings and move the existing STOP bar back behind the pedestrian path of travel.	\$ 3,300
3D-FL-ST-06 3D-FL-ST-07 3D-FL-ST-08	DART	Speed Limit Signs	Update the speed limit signs to meet MUTCD standards.	\$ 2,500
3D-FL-ST-09 3D-FL-ST-10	DART	Relocate stone pillar seats	Increase the space between the stone pillar seats at the top of the ADA ramps to the station platform or move them farther back from the ramp so that wheelchair users can pass. Four or preferably five foot clearances are recommended.	\$ 1,500
3D-FL-ST-11	DART	Relocate Bike Parking	Move covered bike parking to a more convenient location for cyclists close to the platform. The open space near the stairs within the security camera monitoring area is recommended (near Locations 9 and 10). This will be more convenient for cyclists riding from Forest Lane.	\$ 1,500
3D-FL-ST-12 3D-FL-ST-13	DART	Do Not Enter Signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
Opinion of Probable Cost - DART Subtotal.....				\$ 15,400
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 15,400

DART Last Mile Connections Project - Forest Lane Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
3D-FL-ST-01	720 C	LANE MARKER REMOVAL	Lin. Ft.	\$ 2.00	150	150	\$ 300.00	Remove and restripe left-turn arrow striping for northbound traffic exiting the park & ride lot. Remove and restripe the doule lines in yellow. Update sign.
Lane Striping	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	150	150	\$ 1,350.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	
	677 6008	ELIM EXT PAV MRK & MRKS (ARROW)	Each	\$ 65.00	2	2	\$ 130.00	
	666 6054	REFL PAV MRK TY I (W)(ARROW)(100MIL)	Each	\$ 125.00	1	1	\$ 125.00	
		Contingency				25%	\$ 638.75	
	Subtotal					\$ 3,200.00		
3D-FL-ST-02 3D-FL-ST-03	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 Pedestrian Signs
Update signs		Contingency				25%	\$ 325.00	
		Subtotal					\$ 1,700.00	
3D-FL-ST-04 3D-FL-ST-05	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	247.5	248	\$ 2,232.00	Assume 5' wide crosswalk 30'+25' long
Crosswalk Striping	724	18 IN THERMO STOP LINE MARKER	Lin. Ft.	\$ 8.00	30	30	\$ 240.00	
	720 C	LANE MARKER REMOVAL	Lin. Ft.	\$ 2.00	50	50	\$ 100.00	
		Contingency				25%	\$ 643.00	
		Subtotal					\$ 3,300.00	
3D-FL-ST-06 3D-FL-ST-07 3D-FL-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	3	3	\$ 1,950.00	Update 2 Speed Limit Signs
Speed Limit Signs		Contingency				25%	\$ 487.50	
		Subtotal					\$ 2,500.00	
3D-FL-ST-09 3D-FL-ST-10	XXX	Remove and reset stone pillar seats	Each	\$ 300.00	4	4	\$ 1,200.00	Relocate 4 stone pillar seats; Assuming \$300 labor fee/unit
Relocate stone pillar seats		Contingency				25%	\$ 300.00	
		Subtotal					\$ 1,500.00	
3D-FL-ST-11	XXX	Relocate BikeLid	Each	\$ 300.00	4	4	\$ 1,200.00	Relocate 4 Bike Lids. Assuming \$300 labor fee/unit
Relocate Bike Parking		Contingency				25%	\$ 300.00	
		Subtotal					\$ 1,500.00	
3D-FL-ST-12 3D-FL-ST-13	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 DO NOT ENTER Signs
Do Not Enter Signs		Contingency				25%	\$ 325.00	
		Subtotal					\$ 1,700.00	
Grand Total							\$ 15,400.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency

Walnut Hill Station

Opinion of Probable Constr. Cost = \$214,800

Improvement Code Legend
ID: 4A-WH-ST-01
 4A ← Station Number ST ← Station Improvement
 WH ← Station Abbreviation
 01 ← Improvement Number (matches on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4A-WH-ST-01	DART	Add landscaping	Add landscaping to close "goat trail" and discourage people from crossing mid-block across Glen Lakes Drive between the parking lot and the stairs/elevator to the train platform.	\$ 3,900
4A-WH-ST-02	DART	Restripe Crosswalk Markings	Restripe faded crosswalk across Glen Lakes Drive at Manderville Lane.	\$ 2,300
4A-WH-ST-03	DART	Add new Crosswalk Markings	Stripe crosswalk across bus loop under the bridge.	\$ 600
4A-WH-ST-04 4A-WH-ST-05	DART	Update DO NOT ENTER Signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
4A-WH-ST-06 4A-WH-ST-07 4A-WH-ST-08 4A-WH-ST-09	DART	Remove fence, add sidewalk	Remove fence posts along Walnut Hill Lane sidewalk to provide more direct sidewalk connections between the Walnut Hill Lane sidewalk and the stairs & elevators to the train platform. Worn paths in some of the landscaping and one rider jumping the fence posts indicate existing demand for a more convenient movement.	\$ 9,000
4A-WH-ST-11	DART	Install new BikeLids	Add covered bike parking on south side of Walnut Hill Lane near station stairs so riders do not need to cross to north side to park.	\$ 10,800
4A-WH-ST-12	DART	Add sidewalk	Build sidewalk to replace the existing "goat trail" and provide a better connection between the DART station and a large adjacent office building. Riders were observed walking in the worn path in the grass at this location.	\$ 2,000
Opinion of Probable Cost - DART Subtotal.....				\$ 30,300
4A-WH-ST-10	City of Dallas	Add median fencing	Install median fence along Walnut Hill Lane in conjunction with the improvements at Locations 6-9 to continue to discourage pedestrians from crossing Walnut Hill Lane mid-block near the rail bridge.	\$ 184,500
Opinion of Probable Cost - City of Dallas Subtotal.....				\$ 184,500
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 214,800

DART Last Mile Connections Project - Walnut Hill Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4A-WH-ST-01	DART BID ITEM	Plant Material (5 Gal Shrub)	SF	\$ 15.00	200	200	\$ 3,000.00	Add approx. 200 SF of 5 gallon shrub and mulch.
Add landscaping	DART BID ITEM	Mulch	SY	\$ 5.00	22.2	22	\$ 110.00	
		Contingency				25%	\$ 777.50	
	Subtotal						\$ 3,900.00	
4A-WH-ST-02	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	192.5	200	\$ 1,800.00	Assume 5' wide crosswalk 55' long
Restripe Crosswalk Markings		Contingency				25%	\$ 450.00	
	Subtotal						\$ 2,300.00	
4A-WH-ST-03	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	50	50	\$ 450.00	Assume 5' wide crosswalk 25' long (outside lines only)
Add new Crosswalk Markings		Contingency				25%	\$ 112.50	
	Subtotal						\$ 600.00	
4A-WH-ST-04 4A-WH-ST-05	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 DO NOT ENTER Signs
Update DO NOT ENTER Signs		Contingency				25%	\$ 325.00	
	Subtotal						\$ 1,700.00	
4A-WH-ST-06 4A-WH-ST-07 4A-WH-ST-08 4A-WH-ST-09	208	REMOVE FENCE	Lin. Ft.	\$ 6.00	40	40	\$ 240.00	Assume 10' fence will be removed for each location from 6-9; assume ~200 LF of 5' wide sidewalk for connections
Remove fence, add sidewalk	355	4" THICK REINF CONC WALK	Sq. Yd.	\$ 63.00	108.3	110	\$ 6,930.00	
		Contingency				25%	\$ 1,792.50	
	Subtotal						\$ 9,000.00	
4A-WH-ST-10	XXXX	Architectural quality anti-climb 6' metal fence	Lin. Ft.	\$ 130.00	470	470	\$ 61,100.00	470' fence along Walnut Hill Lane
Add median fencing	545 6006	CRASH CUSH ATTEN (INSTL)(L)(N)(TL2)	EA	\$ 8,000.00	2	2	\$ 16,000.00	
	514 6038	PERM CTB (SSCB)(TY 1)(MOD)	LF	\$ 150.00	470	470	\$ 70,500.00	
		Contingency				25%	\$ 36,900.00	
	Subtotal						\$ 184,500.00	
4A-WH-ST-11	XXX	BikeLid covered bike parking	Each	\$ 2,145.00	4	4	\$ 8,580.00	Add 4 bike parkings
Install new BikeLids		Contingency				25%	\$ 2,145.00	
	Subtotal						\$ 10,800.00	
4A-WH-ST-12	355	4" THICK REINF CONC WALK	Sq. Yd.	\$ 63.00	25	25	\$ 1,575.00	Assume 5' wide sidewalk 45' long
Add sidewalk		Contingency				25%	\$ 393.75	
	Subtotal						\$ 2,000.00	
Grand Total							\$ 214,800.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
25% Total Contingency			

Park Lane Station

Opinion of Probable Constr. Cost = \$290,300

Improvement Code Legend
ID: 4B-PL-ST-01
 4B ← Station Number ST ← Station Improvement
 ← Station Abbreviation
 01 ← Improvement Number (matches on Map)



Opinion of Probable Cost

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4B-PL-ST-01	DART	New connection from platform to shopping center to the west	Create a pedestrian connection to the Caruth Plaza shopping center west of the station. Add a break in the existing station platform fencing and a crosswalk with signing across the parking lot to the sidewalk fronting the stores. Breaks in the bushes next to the fencing indicate existing demand.	\$ 14,300
4B-PL-ST-02	DART	DO NOT ENTER Sign	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 900
4B-PL-ST-03	DART	Double Yellow Centerline Markings	Replace dashed white pavement marking on driveway at east side of DART property with double yellow line. Dashed white lines incorrectly imply one-way traffic flow (contrary to existing signs directing drivers to enter here) that could result in hazardous conditions for both drivers and pedestrians.	\$ 1,500
4B-PL-ST-04 4B-PL-ST-05	DART	Pedestrian Signs	Update pedestrian warning signs to meet MUTCD standards. The existing signs have the wrong panel shape, and do not have supplemental arrow plaques as required to meet MUTCD standards. Also, the sign at Location 3 (right-hand sign as facing southbound bus loop traffic) should be relocated closer to the crosswalk.	\$ 1,700
4B-PL-ST-06	DART	Speed Limit Sign	Update Speed Limit sign to meet MUTCD standards.	\$ 900
4B-PL-ST-07	DART	ONE WAY Sign	Update "ONE WAY" sign to meet MUTCD standards.	\$ 900
4B-PL-ST-08	DART	DO NOT ENTER Signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
4B-PL-ST-09	DART	Speed Limit Sign	Update Speed Limit sign to meet MUTCD standards.	\$ 900
Opinion of Probable Cost - DART Subtotal.....				\$ 22,800
4B-PL-ST-10	City of Dallas	Add pushbuttons, advance yield lines, signing & PHB for Park Lane crosswalks. Add crosswalk across Park Lane.	Consider, as a long-term solution, constructing a pedestrian bridge over Park Lane from the elevated station platform for increased safety and convenience of riders traveling to and from the south. A large apartment building is located closer to the station on the south side of Park Lane. Pedestrians were observed crossing Park Lane mid-block under the bridge at this location, which is about 300 feet from the signalized crosswalk at Greenville Avenue to the east and 500 feet from the signalized crosswalk at the Caruth Plaza shopping center entrance to the west. As an interim measure, install a crosswalk and pedestrian hybrid beacon on Park Lane near the rail crossing and coordinate with the adjacent signals for a two-stage pedestrian crossing. A taper transitioning the number of westbound lanes from three to two exists at this location. The third lane could instead be dropped at the right turn entrance to the DART parking lot to create more space for a median pedestrian refuge. (Cost estimate provided for interim crosswalk/pedestrian hybrid beacon option).	\$ 267,500

Opinion of Probable Cost - City of Dallas Subtotal..... \$ 267,500

Opinion of Probable Cost - Total for All Recommendations at Station..... \$ 290,300



DART Last Mile Connections Project - Park Lane Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4B-PL-ST-01	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	220	220	\$ 1,980.00	Assume 5' wide crosswalk 110' long. Add 5' x 5' sidewalk. Remove 10' fence. 2 pedestrian signs & 2 track crossing warning signs.
New connection from platform to shopping center to the west	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	4	4	\$ 2,600.00	
	208	REMOVE FENCE	Lin. Ft.	\$ 6.00	10	10	\$ 60.00	
	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	2.78	3	\$ 189.00	
	XXX	Sidewalk Track Crossing	Each	\$ 1,000.00	1	1	\$ 1,000.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	639	TREE REMOVAL (bushes)	Each	\$ 886.00	1	1	\$ 886.00	
	458A	PARKING STOP	Each	\$ 97.00	3	3	\$ 291.00	
		Contingency				25%	\$ 2,842.88	
		Subtotal					\$ 14,300.00	
4B-PL-ST-02	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 DO NOT ENTER Sign
DO NOT ENTER Sign		Contingency				25%	\$ 162.50	
		Subtotal					\$ 900.00	
4B-PL-ST-03	722 C	4" THERMOPLASTIC LANE MARKER (SOLID YELLOW)	Lin. Ft.	\$ 1.00	1130	1130	\$ 1,130.00	Assume 565' of two 4" yellow markings
Double Yellow Centerline Markings		Contingency				25%	\$ 282.50	
		Subtotal					\$ 1,500.00	
4B-PL-ST-04 4B-PL-ST-05	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 Pedestrian Signs
Pedestrian Signs		Contingency				25%	\$ 325.00	
		Subtotal					\$ 1,700.00	
4B-PL-ST-06	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 Speed Limit Sig
Speed Limit Sign		Contingency				25%	\$ 162.50	
		Subtotal					\$ 900.00	
4B-PL-ST-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 ONE WAY Sign
ONE WAY Sign		Contingency				25%	\$ 162.50	
		Subtotal					\$ 900.00	
4B-PL-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 DO NOT ENTER Signs
DO NOT ENTER Signs		Contingency				25%	\$ 325.00	
		Subtotal					\$ 1,700.00	
4B-PL-ST-09	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 Speed Limit Sign
Speed Limit Sign		Contingency				25%	\$ 162.50	
		Subtotal					\$ 900.00	

DART Last Mile Connections Project - Park Lane Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4B-PL-ST-10	666	REFL PAV MRK TY I (W) 36" (YLD TRI) (100 MIL)	Each	\$ 40.00	20	20	\$ 800.00	Assume conduit, poles, power source do not need to be updated; 4 yield triangle pavement markings per 12' width; six 12' lanes on Park Lane. Assume 6' wide crosswalk 80' long, 50% covered with thermo.
	666	REF PAV MRK TY II (W) 36" (YLD TRI)	Each	\$ 20.00	20	20	\$ 400.00	
Add pushbuttons, advance yield lines, signing & PHB for Park Lane crosswalks. Add crosswalk across Park Lane.	680	INSTALL HWY TRAF SIG (ISOLATED)	Each	\$ 200,000.00	1	1	\$ 200,000.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	4	4	\$ 2,600.00	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	400	400	\$ 3,600.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	3	3	\$ 6,548.25	
		<i>Contingency</i>				25%	\$ 53,487.06	
	Subtotal					\$ 267,500.00		
Grand Total							\$ 290,300.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency

Lovers Lane Station


Opinion of Probable Constr. Cost = \$95,400

Improvement Code Legend

ID: 4C-LL-ST-01

4C ← Station Number ST ← Station Improvement

LL ← Station Abbreviation

01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4C-LL-ST-01	DART	Build new sidewalk and ramps. Add pedestrian lighting and cameras.	Add sidewalk under U.S. 75 bridge at Lovers Lane intersection. A worn path in the grass shows existing demand here.	\$ 48,200
4C-LL-ST-03	DART	Relocate Bus Shelter	The bus shelter location and/or the curb line need to be adjusted to provide a minimum sidewalk width of 4 feet for a wheelchair to be able to pass. Only 2.5 feet of sidewalk width is existing.	\$ 9,000
4C-LL-ST-05 4C-LL-ST-06	DART	Add bushes	Add landscaping adjacent to existing fences to discourage motorists from dropping off passengers from the U.S. 75 frontage road. Bent fences show evidence of this behavior.	\$ 25,300
Opinion of Probable Cost - DART Subtotal.....				\$ 82,500
4C-LL-ST-02	Private Property	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
4C-LL-ST-04	Private Property	Build new sidewalk and ramps	Build new sidewalk to connect the existing sidewalk to the DART station platform.	\$ 11,200
Opinion of Probable Cost - Private Property Subtotal.....				\$ 12,900
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 95,400

DART Last Mile Connections Project - Lovers Lane Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions	
4C-LL-ST-01	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	41.7	42	\$ 2,646.00	Build new 75' sidewalk with 5' width, and 2 new ramps. For lighting assumed 2 poles	
Build new sidewalk and ramps. Add pedestrian lighting and cameras.	680 A	2"PVC STREET LIGHT CONDUIT - BORE	Lin. Ft.	\$ 18.00	75	75	\$ 1,350.00		
	687	PEDESTRIAN LIGHT FOUNDATION	Each	\$ 1,208.00	2	2	\$ 2,416.00		
	688	STREET LIGHT PULL BOXES	Each	\$ 860.00	2	2	\$ 1,720.00		
	691	PROCURE AND INSTALL PEDESTRIAN LIGHT POLE	Each	\$ 2,158.00	2	2	\$ 4,316.00		
	692	PROCURE AND INSTALL PEDESTRIAN LIGHT FIXTURES	Each	\$ 1,382.00	2	2	\$ 2,764.00		
	841	#6 STREET LIGHT WIRE	Lin. Ft.	\$ 3.00	165	165	\$ 495.00		
	842	ELECTRICAL METER AND BASE	Lump Sum	\$ 12,797.00	1	1	\$ 12,797.00		
	XXX	CAMERA	Each	\$ 10,000.00	1.0	1	\$ 10,000.00		
		<i>Contingency</i>					25%		\$ 9,626.00
	Subtotal						\$ 48,200.00		
4C-LL-ST-02	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 signs Private Property	
Update signs		<i>Contingency</i>				25%	\$ 325.00		
	Subtotal						\$ 1,700.00		
4C-LL-ST-03	728	REMOVE AND RESET SIGN	Each	\$ 223.00	8	8	\$ 1,784.00	Relocate Bus Shelter - assume equivalent to relocating 8 signs - one for each leg of shelter. Relocate light pole in way of new shelter location.	
Relocate Bus Shelter	1001 A	REMOVE STREET LIGHT POLE AND ASSEMBLY	Each	\$ 585.00	1	1	\$ 1,784.00		
	1002 A	REMOVE STREET LIGHT FOUNDATION	Each	\$ 296.00	1	1	\$ 1,784.00		
	682	STREET LIGHT FOUNDATION	Each	\$ 957.00	1	1	\$ 1,784.00		
		<i>Contingency</i>					25%		\$ 1,784.00
	Subtotal						\$ 9,000.00		
4C-LL-ST-04	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	19.4	19.4	\$ 1,225.00	Build new 35' sidewalk with 5' width, and 2 new ramps	
Build new sidewalk and ramps	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50		
	203	REMOVE SIDEWALK	LF	\$ 20.00	15	15	\$ 300.00		
	7530	CURB & GUTTER	LF	\$ 39.72	20	20	\$ 794.40		
	20360	MANHOLE ADJUSTMENT	Each	\$ 572.00	1	1	\$ 572.00		
	723 A	12" THERMOPLASTIC LANE MARKER	LF	\$ 9.00	105	105	\$ 945.00		
	XXX	UTILITY BOX RELOCATION	Each	\$ 729.33	1	1	\$ 729.33		
		<i>Contingency</i>					25%		\$ 2,232.81
	Subtotal						\$ 11,200.00		
4C-LL-ST-05 4C-LL-ST-06	DART BID ITEM	Plant Material (5 Gal Shrub)	SF	\$ 15.00	1300	1300	\$ 19,500.00	Add 1,300 SF of shrubs	
Add bushes		Mulch	SY	\$ 5.00	144.4	145	\$ 725.00		
		<i>Contingency</i>					25%		\$ 5,056.25
		Subtotal							\$ 25,300.00
Grand Total							\$ 95,400.00		


Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency

Mockingbird Station

Opinion of Probable Constr. Cost = \$109,500

Improvement Code Legend

ID: 4D-MB-ST-01

4D ← Station Number ST ← Station Improvement
 MB ← Station Abbreviation
 01 ← Improvement Number (matches  on Map)




Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4D-MB-ST-01	City of Dallas	New & Relocated Signs	Move "Yield To Pedestrian Sign" to the yield line. Add pedestrian crossing warning signs at crosswalk.	\$ 2,000
4D-MB-ST-02	City of Dallas	New sign post	Mount "Bike Route" sign plaque and "STOP Sign" plaque on separate posts as per MUTCD.	\$ 500
Opinion of Probable Cost - City of Dallas Subtotal.....				\$ 2,500
4D-MB-ST-03	DART	New bus stop pad	Build sidewalk pad at bus stop.	\$ 600
4D-MB-ST-04	DART	New signs	Add pedestrian signs at crosswalk.	\$ 1,700
4D-MB-ST-06	DART	Add diagonal arrow panel to ex. sign	Add a diagonal downward pointing arrow (W16-7P) plaque mounted to the existing pedestrian sign posts.	\$ 500
4D-MB-ST-07	DART	Add diagonal arrow panel to ex. sign	Add a diagonal downward pointing arrow (W16-7P) plaque mounted to the existing pedestrian sign posts.	\$ 500
4D-MB-ST-08	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards. Mount left-hand pedestrian warning sign on a separate post and provide a new pedestrian warning sign on the right-hand side.	\$ 1,700
4D-MB-ST-09	DART	Update signs	Add diagonal downward arrow (W16-7P) supplemental plaques below the pedestrian crossing warning signs.	\$ 1,700
4D-MB-ST-10	DART	Remove sign	Remove non-standard "ONE WAY" sign that is not necessary.	\$ 300
4D-MB-ST-11	DART	Relocate sign	Relocate pedestrian crossing sign #11 closer to crosswalk. Add diagonal downward arrow (W16-7P) supplemental plaques below the pedestrian crossing warning signs.	\$ 700
4D-MB-ST-12	DART	Add diagonal arrow panel to ex. sign		\$ 900
4D-MB-ST-13	DART	Replace sign	Update pedestrian crossing sign to meet MUTCD standards. Add diagonal downward arrow (W16-7P) supplemental plaque below the pedestrian crossing warning sign.	\$ 1,700
4D-MB-ST-14	DART	Signing changes	The current STOP sign facing eastbound traffic is not visible for a sufficient distance around the horizontal curve. Add "Stop Ahead" (W3-1) sign ahead of "STOP" sign and the preceding curve. Remove pedestrian sign at crosswalk facing eastbound approach since it competes for attention with more important stop sign message. Add "ALL-WAY" (R1-3P) plaques below existing STOP signs. Add a new STOP sign with R1-3P plaque facing the northbound apartment driveway approach to this intersection.	\$ 2,400
4D-MB-ST-15	DART	Add diagonal arrow panel to ex. Sign; repair detection	Add diagonal downward pointing arrow (W16-7P) supplemental plaques below the pedestrian crossing warning signs. Repair the southbound LED lights in sign border (currently not functioning), repair pedestrian detection, and/or trim trees for more solar power.	\$ 4,500
4D-MB-ST-16	DART	Add diagonal arrow panel to ex. sign		\$ 900
4D-MB-ST-17	DART	New warning signs	Add pedestrian crossing warning signs at crosswalk.	\$ 1,700
4D-MB-ST-18	DART	Reconstruct ADA ramps	Reconstruct pedestrian ramps to have shallower slope compliant with ADA. The existing ramps are too steep for use by manual wheelchair users. ADA parking southwest of this driveway may be under-utilized as a result of inadequate ramps.	\$ 6,600

Mockingbird Station

Opinion of Probable Constr. Cost = \$109,500

Improvement Code Legend

ID: 4D-MB-ST-01

4D ← Station Number ST ← Station Improvement
 MB ← Station Abbreviation
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4D-MB-ST-19	DART	Concrete parking stops	Trim hedges and add parking bumpers to provide a minimum 4 feet width for wheelchairs. Only 3.5 feet width existing.	\$ 1,700
4D-MB-ST-20	DART	Install crosswalk signs & markings	Add marked crosswalk with pedestrian warning signs and detectable warning surfaces for pedestrian ramps.	\$ 7,100
4D-MB-ST-21	DART	Relocate ADA ramp	Relocate ramp to connect to existing crosswalk.	\$ 7,900
4D-MB-ST-22	DART	Pedestrian Lighting	Add pedestrian lighting for area where tree cover makes for dark nighttime conditions.	\$ 36,200
4D-MB-ST-23	DART	Update Do Not Enter sign	Update "DO NOT ENTER" signs to meet MUTCD standards. Remove "Except Buses" plaque.	\$ 900
4D-MB-ST-24	DART	Add Do Not Enter sign	Add "DO NOT ENTER" sign.	\$ 900
4D-MB-ST-25	DART	Update Stop sign	Enlarge the size of "STOP" sign to obscure the shape of signs mounted on the other side.	\$ 900
4D-MB-ST-26	DART	Fix trip hazard	Fix trip hazard.	\$ 1,300
4D-MB-ST-27	DART	Update Do Not Enter sign	Replace faded "DO NOT ENTER" sign.	\$ 900
4D-MB-ST-28	DART	Build sidewalk connection	Build sidewalk at the existing worn path in grass.	\$ 1,000
4D-MB-ST-29	DART	Fix trip hazard	Fix trip hazard where sidewalk has settled around storm drain inlet.	\$ 4,100
4D-MB-ST-30	DART	Add detectable warning surfaces to ADA ramps	Add detectable warning surfaces to pedestrian ramps where missing. The location shown is one example. Several others exist throughout the station area.	\$ -
Opinion of Probable Cost - DART Subtotal.....				\$ 89,300
4D-MB-ST-05	DART/ Private Property	Add bike parking near trail & stairs to station	Add a new bike parking area near the trail at the bottom of the stairs.	\$ 17,700
Opinion of Probable Cost - DART/Private Property Subtotal.....				\$ 17,700
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 109,500



DART Last Mile Connections Project - Mockingbird Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4D-MB-ST-01	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Move 1 sign and add 2 new signs
New & Relocated Signs	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	
		<i>Contingency</i>				25%	\$ 380.75	
	Subtotal						\$ 2,000.00	
4D-MB-ST-02	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	0.5	0.5	\$ 325.00	Sign post only at 1/2 cost of new sign
New sign post		<i>Contingency</i>				25%	\$ 81.25	
	Subtotal						\$ 500.00	
4D-MB-ST-03	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	6.67	7	\$ 441.00	Assume 60 SF of sidewalk for bus stop pad.
New bus stop pad		<i>Contingency</i>				25%	\$ 110.25	
	Subtotal						\$ 600.00	
4D-MB-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Add 2 signs
New signs		<i>Contingency</i>				25%	\$ 325.00	
	Subtotal						\$ 1,700.00	
4D-MB-ST-05	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	20	20	\$ 1,260.00	Assume 9' x 20' pad for 6 BikeLids
Add bike parking near trail & stairs to station	XXX	BikeLid covered bike parking	Each	\$ 2,145.00	6	6	\$ 12,870.00	
		<i>Contingency</i>				25%	\$ 3,532.50	
	Subtotal						\$ 17,700.00	
4D-MB-ST-06	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	0.5	0.5	\$ 325.00	Sign panel only at 1/2 cost of new sign
Add diagonal arrow panel to ex. sign		<i>Contingency</i>				25%	\$ 81.25	
	Subtotal						\$ 500.00	
4D-MB-ST-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	0.5	0.5	\$ 325.00	Sign panel only at 1/2 cost of new sign
Add diagonal arrow panel to ex. sign		<i>Contingency</i>				25%	\$ 81.25	
	Subtotal						\$ 500.00	
4D-MB-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 signs
Update signs		<i>Contingency</i>				25%	\$ 325.00	
	Subtotal						\$ 1,700.00	
4D-MB-ST-09	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 1 sign
Update signs		<i>Contingency</i>				25%	\$ 325.00	
	Subtotal						\$ 1,700.00	
4D-MB-ST-10	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	Assume remove sign equivalent of remove and reset.
Remove sign		<i>Contingency</i>				25%	\$ 55.75	
	Subtotal						\$ 300.00	
4D-MB-ST-11	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	Relocate sign & add arrow panel (equivalent to 1/2 sign)
Relocate sign	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	0.5	0.5	\$ 325.00	
		<i>Contingency</i>				25%	\$ 137.00	
	Subtotal						\$ 700.00	
4D-MB-ST-12	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Sign panel only at 1/2 cost of new sign
Add diagonal arrow panel to ex. sign		<i>Contingency</i>				25%	\$ 162.50	
	Subtotal						\$ 900.00	

DART Last Mile Connections Project - Mockingbird Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4D-MB-ST-13	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 1 sign
Replace sign		<i>Contingency</i>				25%	\$ 325.00	
	Subtotal						\$ 1,700.00	
4D-MB-ST-14	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	Remove 1 sign, install 1 stop sign, add 3 small panels (assume equiv. to 1/2 sign each)
Signing changes	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2.5	2.5	\$ 1,625.00	
		<i>Contingency</i>				25%	\$ 462.00	
	Subtotal						\$ 2,400.00	
4D-MB-ST-15	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Sign panel only at 1/2 cost of new sign (double-sided). Detection based on 4/3 quote from vendor for sensor and system controller, assumed 4 hrs labor at \$150 to install
Add diagonal arrow panel to ex. Sign; repair detection	XXX	Repair pedestrian detection	Each	\$ 2,950.00	1	1	\$ 2,950.00	
		<i>Contingency</i>				25%	\$ 900.00	
	Subtotal						\$ 4,500.00	
4D-MB-ST-16	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Sign panel only at 1/2 cost of new sign (double-sided)
Add diagonal arrow panel to ex. sign		<i>Contingency</i>				25%	\$ 162.50	
	Subtotal						\$ 900.00	
4D-MB-ST-17	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
New warning signs		<i>Contingency</i>				25%	\$ 325.00	
	Subtotal						\$ 1,700.00	
4D-MB-ST-18	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	225	225	\$ 900.00	Remove ex. sidewalk, reconstruct 2 ramps
Reconstruct ADA ramps	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
		<i>Contingency</i>				25%	\$ 1,316.38	
	Subtotal						\$ 6,600.00	
4D-MB-ST-19	458 A	CONC. PARKING STOPS	Each	\$ 97.00	14	14	\$ 1,358.00	Concrete parking stops, trim vegetation (assumed negligible)
Concrete parking stops		<i>Contingency</i>				25%	\$ 339.50	
	Subtotal						\$ 1,700.00	
4D-MB-ST-20	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	Assume new ramps may be needed instead of only updating detectable warning surfaces.
Install crosswalk signs & markings	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00		0	\$ -	
		<i>Contingency</i>				25%	\$ 1,416.38	
	Subtotal						\$ 7,100.00	
4D-MB-ST-21	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 6.00	140	140	\$ 840.00	Relocate ADA ramp
Relocate ADA ramp	618	BARRIER FREE RAMP	Each	\$ 2,182.75	1	1	\$ 2,182.75	
	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	15.56	16	\$ 1,008.00	
	XXX	Relocate stone pillar bollards	Each	\$ 500.00	2	2	\$ 1,000.00	
	407	6" HI RC SEPARATE CURB W/12" GUT	Lin. Ft.	\$ 32.00	40	40	\$ 1,280.00	
		<i>Contingency</i>				25%	\$ 1,577.69	
	Subtotal					\$ 7,900.00		

DART Last Mile Connections Project - Mockingbird Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4D-MB-ST-22	680 A	2" PVC STREET LIGHT CONDUIT - BORE	Lin. Ft.	\$ 18.00	200	200	\$ 3,600.00	Lighting needed for approx. 200'; assumed 60' spacing, or 3 poles (less one existing on east side of driveway)
Pedestrian Lighting	687	PEDESTRIAN LIGHT FOUNDATION	Each	\$ 1,208.00	2	2	\$ 2,416.00	
	688	STREET LIGHT PULL BOXES	Each	\$ 860.00	2	2	\$ 1,720.00	
	691	PROCURE AND INSTALL PEDESTRIAN LIGHT POLE	Each	\$ 2,158.00	2	2	\$ 4,316.00	
	692	PROCURE AND INSTALL PEDESTRIAN LIGHT FIXTURES	Each	\$ 1,382.00	2	2	\$ 2,764.00	
	841	#6 STREET LIGHT WIRE	Lin. Ft.	\$ 3.00	440	440	\$ 1,320.00	
	842	ELECTRICAL METER AND BASE	Lump Sum	\$ 12,797.00	1	1	\$ 12,797.00	
		Contingency				25%	\$ 7,233.25	
	Subtotal					\$ 36,200.00		
4D-MB-ST-23	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 sign
Update Do Not Enter sign		Contingency				25%	\$ 162.50	
		Subtotal					\$ 900.00	
4D-MB-ST-24	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 sign
Add Do Not Enter sign		Contingency				25%	\$ 162.50	
		Subtotal					\$ 900.00	
4D-MB-ST-25	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 sign
Update Stop sign		Contingency				25%	\$ 162.50	
		Subtotal					\$ 900.00	
4D-MB-ST-26	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 6.00	75	75	\$ 450.00	Replace three 5' x 5' panels
Fix trip hazard	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	8.33	9	\$ 567.00	
		Contingency				25%	\$ 254.25	
	Subtotal					\$ 1,300.00		
4D-MB-ST-27	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 sign
Update Do Not Enter sign		Contingency				25%	\$ 162.50	
		Subtotal					\$ 900.00	
4D-MB-ST-28	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	11.11	12	\$ 756.00	Assume 5' sidewalk 20' long.
Build sidewalk connection		Contingency				25%	\$ 189.00	
		Subtotal					\$ 1,000.00	
4D-MB-ST-29	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 6.00	250	250	\$ 1,500.00	Remove & replace 6 panels around storm drain inlet
Fix trip hazard	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	27.8	28	\$ 1,764.00	
		Contingency				25%	\$ 816.00	
	Subtotal					\$ 4,100.00		


DART Last Mile Connections Project - Mockingbird Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4D-MB-ST-30								
Add detectable warning surfaces to ADA ramps								<i>Not Applicable</i>
Grand Total							\$ 109,500.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
25% Total Contingency			

LBJ Skillman Station

Opinion of Probable Constr. Cost = \$40,000

Improvement Code Legend
ID: 4E-LS-ST-01
 4E ← Station Number ST ← Station Improvement
 LS ← Station Abbreviation
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4E-LS-ST-01	DART	Add ADA Ramp	Build new ADA ramp.	\$ 3,500
4E-LS-ST-02 4E-LS-ST-03 4E-LS-ST-04	DART	Update Signs	Update pedestrian warning signs to meet MUTCD standards. The existing signs are fading, have the wrong panel shape, and do not have supplemental arrow plaques as required to meet MUTCD standards.	\$ 4,900
4E-LS-ST-05	DART	Add Ramps Add Crosswalk	Build new crosswalk and ramps to connect the DART station platform and the northern parking lot.	\$ 19,100
4E-LS-ST-06 4E-LS-ST-07	DART	Update Signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
4E-LS-ST-08	DART	Install new bike lids	Add new bike parking near the open space at the southeast corner near the train platform to accommodate bicyclist from south.	\$ 10,800
Opinion of Probable Cost - DART Subtotal.....				\$ 40,000
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 40,000


DART Last Mile Connections Project - LBJ Skillman Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4E-LS-ST-01	618	BARRIER FREE RAMP	Each	\$ 2,182.75	1	1	\$ 2,182.75	add one ADA ramp
Add ADA Ramp	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	140	140	\$ 560.00	
		<i>Contingency</i>				25%	\$ 685.69	
	Subtotal						\$ 3,500.00	
4E-LS-ST-02 4E-LS-ST-03 4E-LS-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	6	6	\$ 3,900.00	Update 6 Pedestrian Signs
Update Signs		<i>Contingency</i>				25%	\$ 975.00	
		Subtotal					\$ 4,900.00	
4E-LS-ST-05	618	BARRIER FREE RAMP	Each	\$ 2,182.75	6	6	\$ 13,096.50	Assume 6' wide crosswalk 35' long, 50% covered with thermo.
Add Ramps Add Crosswalk	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	175	175	\$ 1,575.00	
	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	140	140	\$ 560.00	
		<i>Contingency</i>				25%	\$ 3,807.88	
		Subtotal					\$ 19,100.00	
4E-LS-ST-06 4E-LS-ST-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 "DO NOT ENTER" Signs
Update Signs		<i>Contingency</i>				25%	\$ 325.00	
		Subtotal					\$ 1,700.00	
4E-LS-ST-08	XXX	BikeLid covered bike parking	Each	\$ 2,145.00	4	4	\$ 8,580.00	Add 4 BikeLids
Install new bike lids		<i>Contingency</i>				25%	\$ 2,145.00	
		Subtotal					\$ 10,800.00	
Grand Total							\$ 40,000.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25% Total Contingency

White Rock Station

Opinion of Probable Constr. Cost = \$59,400

Improvement Code Legend
ID: 4F-WR-ST-01
 4F ← Station Number ST ← Station Improvement
 WR ← Station Abbreviation
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4F-WR-ST-01 4F-WR-ST-02	DART	Update signs	Update speed limit signs to meet MUTCD standards.	\$ 1,700
4F-WR-ST-03	DART	Update sign	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 900
4F-WR-ST-04	DART	Add crosswalk	Add pedestrian ramps to existing sidewalk at parking aisle intersection. Move stop bar and stop sign north behind unmarked crosswalk, then provide crosswalk markings to discourage drivers from stopping across pedestrian path.	\$ 8,800
4F-WR-ST-05 4F-WR-ST-06	DART	Update Pedestrian Ramps	Add detectable warning surfaces to the pedestrian ramps at the crosswalk connecting the parking lot and the station platform.	\$ 5,500
4F-WR-ST-07	DART	Update pedestrian ramp and crosswalk	Pedestrian ramps need to be reconstructed parallel to the crosswalk. Move the pedestrian warning sign closer to the crosswalk, and add diagonal arrow signs below it.	\$ 4,200
Opinion of Probable Cost - DART Subtotal.....				\$ 21,100
4F-WR-ST-08	DART / City of Dallas	New sidewalk connection to Walling Lane	Remove the fence at the north end of the station lot and provide a pedestrian connection to Walling Circle and Walling Lane for neighborhood residents. A parking management program may be needed to prevent non-neighborhood residents from parking on the streets.	\$ 38,300
Opinion of Probable Cost - DART/City of Dallas Subtotal.....				\$ 38,300
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 59,400

DART Last Mile Connections Project - White Rock Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4F-WR-ST-01	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 Speed Limit signs
4F-WR-ST-02		<i>Contingency</i>				25%	\$ 325.00	
Update signs	Subtotal						\$ 1,700.00	
4F-WR-ST-03	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 DO NOT ENTER Sign
Update sign		<i>Contingency</i>				25%	\$ 162.50	
	Subtotal						\$ 900.00	
4F-WR-ST-04	724	18" THERMO STOP LINE MARKER	Lin. Ft.	\$ 8.00	18	18	\$ 144.00	Assume 6' wide crosswalk 30' long, 50% covered with thermo.
Add crosswalk	720 C	LANE MARKER REMOVAL	Lin. Ft.	\$ 2.00	18	18	\$ 36.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	150	150	\$ 1,350.00	
	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	280	280	\$ 1,120.00	
		<i>Contingency</i>					25%	
	Subtotal						\$ 8,800.00	
4F-WR-ST-05	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	Add 2 detectable warning surface to pedestrian ramps. Cost should be lower than adding 2 new ramps, which is conservative estimate.
4F-WR-ST-06		<i>Contingency</i>				25%	\$ 1,091.38	
Update Pedestrian Ramps	Subtotal						\$ 5,500.00	
4F-WR-ST-07	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	140	140	\$ 560.00	Assume diagonal panel = 0.5 sign
Update pedestrian ramp and crosswalk	618	BARRIER FREE RAMP	Each	\$ 2,182.75	1	1	\$ 2,182.75	
	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	0.5	0.5	\$ 325.00	
		<i>Contingency</i>					25%	
	Subtotal						\$ 4,200.00	


DART Last Mile Connections Project - White Rock Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4F-WR-ST-08	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	108.33	109	\$ 6,867.00	Assume 3' avg. height retaining wall 45' long.
New sidewalk connection to Walling Lane	XXX	Short Retaining Wall (3' avg. height)	Lin. Ft.	\$ 75.00	45	45	\$ 3,375.00	
	7530	CURB & GUTTER	Lin. Ft.	\$ 39.72	50	50	\$ 1,986.00	
	1002	RCP 18"	Lin. Ft.	\$ 58.00	10	10	\$ 580.00	
	639	TREE REMOVAL	Each	\$ 886.00	2	2	\$ 1,772.00	
	1604 A	REMOVE OR REPLACE FENCE	Lin. Ft.	\$ 53.00	20	20	\$ 1,060.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	3	3	\$ 6,548.25	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	70	70	\$ 630.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	12	12	\$ 7,800.00	
		<i>Contingency</i>					25%	
	Subtotal						\$ 38,300.00	
Grand Total								\$ 59,400.00

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency

Eighth & Corinth Station

Opinion of Probable Constr. Cost = \$59,200

Improvement Code Legend
ID: 5A-EC-ST-01
 5A ← Station Number ST ← Station Improvement
 EC ← Station Abbreviation
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
5A-EC-ST-01 to 5A-EC-ST-06	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards. Signs at Locations 1, 4, and 5 should be replaced with signs without the "Except Buses" message beneath, since they control driveways where buses should not enter either. Enlarge the size of "STOP" signs at Locations 4 and 5 to obscure the shape of signs mounted on the other side. Update speed limit sign to meet MUTCD standards.	\$ 6,500
5A-EC-ST-07	DART	Install crosswalk striping	Add crosswalk striping parallel to and on either side of the decorative brick crosswalk to make it a high-visibility crosswalk and to properly define it as a legal crosswalk where pedestrians have the right-of-way.	\$ 200
Opinion of Probable Cost - DART Subtotal.....				\$ 6,700
5A-EC-ST-08	City of Dallas	Install crosswalk striping, update and install signs Relocate signs, install RRFB's on pedestrian signs	Add advance yield lines and "Yield Here to Pedestrians" signing at the existing crosswalk across Eighth Street. Update pedestrian warning sign in eastbound direction to be fluorescent yellow with diagonal arrow panel pointing to crosswalk. Add pedestrian warning signs in the median refuge island. Relocate "Stop Here on Red" sign on westbound approach below new upstream "Yield Here to Pedestrians" sign. Prevent buses from stopping just upstream of the crosswalk. Consider pushbutton-activated rectangular rapid flashing beacons (RRFB's) attached to the pedestrian warning sign assemblies.	\$ 52,500
Opinion of Probable Cost - City of Dallas Subtotal.....				\$ 52,500
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 59,200

DART Last Mile Connections Project - Eighth & Corinth Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions	
5A-EC-ST-01 to 5A-EC-ST-06	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	8	8	\$ 5,200.00	Update DO NOT ENTER, STOP, and speed limit signs	
Update signs		<i>Contingency</i>				25%	\$ 1,300.00		
	Subtotal						\$ 6,500.00		
5A-EC-ST-07	723	6 IN THERMOPLASTIC LANE MARKER	Lin. Ft.	\$3.00	52	52	\$ 156.00	Install crosswalk, add 6" line to existing brick crosswalk	
Install crosswalk striping		<i>Contingency</i>				25%	\$ 39.00		
	Subtotal						\$ 200.00		
5A-EC-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	7	7	\$ 4,550.00	Add advance yield lines, (4 triangles/lane x 4 lanes), install "Yield Here to Pedestrians" signs (4) at existing crosswalk, Update ex. sign for FY color, add 2 pedestrian warning signs to median refuge	
Install crosswalk striping, update and install signs	666	REFL PAV MRK TY I (W) 36" (YLD TRI) (100 MIL)	Each	\$ 40.00	16	16	\$ 640.00		
	666	REF PAV MRK TY II (W) 36" (YLD TRI)	Each	\$ 20.00	16	16	\$ 320.00		
		<i>Contingency</i>				25%	\$ 1,377.50		
	Subtotal						\$ 6,900.00		
5A-EC-ST-08	728	REMOVE AND RESET SIGN	Each	\$ 223.00	2	2	\$ 446.00	Relocate "Stop Here on Red" & DART Park & Ride directional signs, install flashing RRFB to pedestrian warning signs	
Relocate signs, install RRFB's on pedestrian signs	XXX	RRFB Installation (Solar units with pole, pushbutton)	Each	\$ 36,000.00	1	1	\$ 36,000.00		
		<i>Contingency</i>				25%	\$ 9,111.50		
	Subtotal						\$ 45,600.00		
Grand Total								\$ 59,200.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
25% Total Contingency			

Dallas Zoo Station

Opinion of Probable Constr. Cost = \$72,700

Improvement Code Legend
ID: 5B-DZ-ST-01
 5B ← Station Number ST ← Station Improvement
 DZ ← Station Abbreviation
 01 ← Improvement Number (matches on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
5B-DZ-ST-01 to 5B-DZ-ST-03	DART/City of Dallas	Crosswalk striping	Add crosswalk striping parallel to and on either side of the decorative brick crosswalks to make them high-visibility crosswalks and to properly define them as legal crosswalks where pedestrians have the right-of-way. Add advance yield warning lines and "Yield Here to Pedestrians" signing in advance of crosswalks.	\$ 600
5B-DZ-ST-02 to 5B-DZ-ST-04	DART/City of Dallas	Yield Lines, Ped. Warning Signs, RRFB's	Add pedestrian warning signs and pedestrian-actuated Rectangular Rapid Flashing Beacons (RRFB's) on southbound Clarendon Drive approach. Approach currently has one advance warning sign, but no warning signs at the crosswalk and no beacons. Add pedestrian warning signs and pedestrian-actuated Rectangular Rapid Flashing Beacons (RRFB's) on northbound Clarendon Drive approach. Approach currently has one warning sign with flashing yellow beacon mounted in the median, but no warning signs on the outside of the roadway and no advance warning sign. Add pedestrian warning signs and pedestrian-actuated Rectangular Rapid Flashing Beacons (RRFB's) on northbound Clarendon Drive approach. Approach currently has one warning sign with flashing yellow beacon mounted in the median, but no warning signs on the outside of the roadway and no advance warning sign. Install pedestrian warning sign for crosswalk across bus loop.	\$ 69,600
5B-DZ-ST-05 to 5B-DZ-07	DART/City of Dallas	Update DO NOT ENTER signs	Replace the existing DO NOT ENTER sign that has been knocked down. Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 2,500

Opinion of Probable Cost - DART/City of Dallas Subtotal..... \$ 72,700
Opinion of Probable Cost - Total for All Recommendations at Station..... \$ 72,700




DART Last Mile Connections Project - Dallas Zoo Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
5B-DZ-ST-01 to 5B-DZ-ST-03	723	6 IN THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 3.00	149	150	\$ 450.00	Add crosswalk striping for 3 crosswalks (#1 for one side only)
Crosswalk striping		<i>Contingency</i>				25%	\$ 112.50	
	Subtotal						\$ 600.00	
5B-DZ-ST-02 to 5B-DZ-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	9.5	9.5	\$ 6,175.00	Assume 3 R1-5's & 6.5 W11-2's (there's only room in median for Yield Here to Peds in NB direction due to bus loop, count existing sign in median as 1/2 sign).
	666	REFL PAV MRK TY I (W) 36" (YLD TRI) (100 MIL)	Each	\$ 40.00	24	24	\$ 960.00	
	666	REF PAV MRK TY II (W) 36" (YLD TRI)	Each	\$ 20.00	24	24	\$ 480.00	
Yield Lines, Ped. Warning Signs, RRFB's	XXX	RRFB Installation (Solar units with pole, pushbutton)	Each	\$ 12,000.00	4	4	\$ 48,000.00	
		<i>Contingency</i>				25%	\$ 13,903.75	
	Subtotal						\$ 69,600.00	
5B-DZ-ST-05 to 5B-DZ-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	3	3	\$ 1,950.00	Replace 3 DO NOT ENTER signs
Update DO NOT ENTER signs		<i>Contingency</i>				25%	\$ 487.50	
	Subtotal						\$ 2,500.00	
Grand Total							\$ 72,700.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
25% Total Contingency			

Morrell Station

Opinion of Probable Constr. Cost = \$2,000

Improvement Code Legend
ID: 5C-MO-ST-01
 5C ← Station Number ST ← Station Improvement
 MO ← Station Abbreviation
 01 ← Improvement Number (matches  on Map)

North Central Texas Council of Governments
DART Red & Blue Line Corridors Last Mile Connections



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
5C-MO-ST-01 to 5C-MO-ST-02	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
Opinion of Probable Cost - DART Subtotal.....				\$ 1,700
5C-MO-ST-03 to 5C-MO-ST-04	DART/City of Dallas	Install signed & marked crosswalks	Install four signed and marked crosswalks with new streetlighting, as well as ADA compliant ramps on both sides of DART platform. Consider adding median refuge islands in coordination with City of Dallas to shorten the crossing distance and separate conflicts for crossing pedestrians. See half-mile area improvements 5C-MO-CW-66 through 5C-MO-CW-69 for more details and cost information. Cost assumed to be shared 50%/50% between DART and City of Dallas.	Separate Project
5C-MO-ST-05	DART/City of Dallas	Relocate sign from sidewalk	Relocate stop sign from sidewalk.	\$ 300
Opinion of Probable Cost - DART/City of Dallas Subtotal.....				\$ 300
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 2,000



DART Last Mile Connections Project - Morrell Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions	
5C-MO-ST-01 to 5C-MO-ST-02	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update DO NOT ENTER signs	
Update signs		<i>Contingency</i>				25%	\$ 325.00		
	Subtotal						\$ 1,700.00		
5C-MO-ST-03 to 5C-MO-ST-04		<i>Not Applicable</i>							
Install signed & marked crosswalks									
5C-MO-ST-05	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	Relocate stop sign from sidewalk	
Relocate sign from sidewalk		<i>Contingency</i>				25%	\$ 55.75		
	Subtotal						\$ 300.00		
Grand Total							\$ 2,000.00		

Contingency Items:	Contingency	Contingency Items:	Contingency	
Design Fee	10%	Erosion & Sediment Control Allowance	2%	25% Total Contingency
Mobilization	4%	Traffic Control Allowance	3%	
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%	

Tyler Vernon Station

Improvement Code Legend
ID: 6A-TV-ST-01
 6A ← Station Number ST ← Station Improvement
 TV ← Station Abbreviation
 01 ← Improvement Number (matches on Map)



Opinion of Probable Constr. Cost = \$131,900

Opinion of Probable Cost

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
6A-TV-ST-01	DART	Tree Trimming	The pedestrian crossing sign is blocked by tree branches. Trim the tree branches for a clear view of the sign.	\$ -
6A-TV-ST-02	DART	Add Sidewalk, rebuild retaining wall	The existing pedestrian ramp slope is too steep. Build sidewalk on the north side of the street, which would require reconstruction of the sloped retaining wall between the street and the fence at the boundary of the vacant lot above. The sidewalk construction would also require removal of or root damage to several trees and would require either regrading of slopes or construction of short retaining walls. It may be acceptable to delay this improvement until development of the property to the north. See also half-mile area improvement 6A-TV-SW-66.	\$ 126,900
6A-TV-ST-03	DART	Restripe Crosswalk	Restripe faded pedestrian crosswalk. It may be acceptable to delay this improvement until development of the property to the north.	\$ 1,500
6A-TV-ST-04	DART	Reinstall ONE WAY Sign	Update "ONE WAY" sign to meet MUTCD standards.	\$ 900
6A-TV-ST-05	DART	Tree Trimming	The stop sign is blocked by tree branches. Trim the tree branches for a clear view of the sign.	\$ -
6A-TV-ST-06	DART	Reinstall STOP Sign	The size of the STOP sign needs to be increased to obscure the shape of signs mounted on the other side.	\$ 900
6A-TV-ST-07 6A-TV-ST-08	DART	Reinstall DO NOT ENTER signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
Opinion of Probable Cost - DART Subtotal.....				\$ 131,900
6A-TV-ST-09	City of Dallas	Install/Relocate Signs; Construct Traffic Signal	Relocate the existing pedestrian crossing signs closer to the pedestrian crosswalk for both northbound and southbound. Install new pedestrian advance crossing warning signs and pedestrian crossing signs for both northbound and southbound. Also, add yield lines, "Yield Here to Pedestrians" signs, and a full traffic signal at the crosswalk. Add a full traffic signal, since RRFB flashing yellow lights or pedestrian hybrid beacon wig-wag red lights might be confusing at same time as flashing red railroad crossing beacon. See half-mile matrix for cost details (assumed 50%/50% split between DART and City of Dallas).	\$ -
Opinion of Probable Cost - City of Dallas Subtotal.....				\$ -
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 131,900



DART Last Mile Connections Project - Tyler Vernon Station Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
6A-TV-ST-01								
Tree Trimming								<i>Not Applicable</i>
6A-TV-ST-02	206A	REMOVE CONC/MASONRY/ROCK RETAINING WALL	Lin. Ft.	\$ 17.00	175	175	\$ 2,975.00	Assume sidewalk 585 foot length, 5 foot width; Assume retaining walls and other items as listed.
Add Sidewalk, rebuild retaining wall	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	325.0	325	\$ 20,475.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	7530	CURB & GUTTER	Lin. Ft.	\$ 39.72	250	250	\$ 9,930.00	
	728	REMOVE AND RESET SIGN	Each	\$ 223.00	2	2	\$ 446.00	
	XXX	BUILD RETAINING WALL (1' height)	Lin. Ft.	\$ 20.00	250	250	\$ 5,000.00	
	XXX	BUILD RETAINING WALL (2' height)	Lin. Ft.	\$ 40.00	50	50	\$ 2,000.00	
	XXX	BUILD RETAINING WALL (3' height)	Lin. Ft.	\$ 75.00	220	220	\$ 16,500.00	
	XXX	DRIVEWAY (RESIDENTIAL)	Each	\$ 3,972.22	1	1	\$ 3,972.22	
	XXX	TREE RELOCATIONS	Each	\$ 2,768.00	3	3	\$ 8,304.00	
	639	TREE REMOVALS	Each	\$ 886.00	13	13	\$ 11,518.00	
	XXX	UTILITY BOX RELOCATION	Each	\$ 729.33	1	1	\$ 729.33	
	210B	FENCE (REMOVE AND REPLACE)	Lin. Ft.	\$ 53.00	220	220	\$ 11,660.00	
	20652	FIRE HYDRANT RELOCATED	Each	\$ 3,640.00	1	1	\$ 3,640.00	
	<i>Contingency</i>					25%	\$ 25,378.76	
	Subtotal						\$ 126,900.00	
6A-TV-ST-03	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	132	132	\$ 1,188.00	Assume 6' wide crosswalk 44' long, 50% covered with thermo.
Restripe Crosswalk		<i>Contingency</i>				25%	\$ 297.00	
		Subtotal					\$ 1,500.00	
6A-TV-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	1 ONE WAY sign
Reinstall ONE WAY Sign		<i>Contingency</i>				25%	\$ 162.50	
		Subtotal					\$ 900.00	
6A-TV-ST-05								
Tree Trimming								<i>Not Applicable</i>
6A-TV-ST-06	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	1 STOP sign
Reinstall STOP Sign		<i>Contingency</i>				25%	\$ 162.50	
		Subtotal					\$ 900.00	
6A-TV-ST-07 6A-TV-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	2 DO NOT ENTER signs
Reinstall DO NOT ENTER signs		<i>Contingency</i>				25%	\$ 325.00	
		Subtotal					\$ 1,700.00	


DART Last Mile Connections Project - Tyler Vernon Station Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
6A-TV-ST-09								
Install/Relocate signs; Add full traffic signal								<i>Not Applicable - Separate DART and City Project</i>
Grand Total							\$ 131,900.00	

Contingency Items:	Contingency	Contingency Items:	Contingency	
Design Fee	10%	Erosion & Sediment Control Allowance	2%	25%
Mobilization	4%	Traffic Control Allowance	3%	Total Contingency
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%	

Hampton Station

Opinion of Probable Constr. Cost = \$62,400

Improvement Code Legend
ID: 6B-HA-ST-01
 6B ← Station Number ST ← Station Improvement
 HA ← Station Abbreviation
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
6B-HA-ST-01	DART	Remove brick work; Extend crosswalk	Remove decorative brick work and replace with standard pavement wherever it overlaps or intersects a marked crosswalk. Decorative brick work completely outside of marked crosswalks should either be removed and replaced with standard pavement (which is what has been priced for the cost estimate) or removed and replaced with architectural features that do not mimic the brick work also found in other actual crosswalks designed for pedestrian use in and adjacent to the station area. For example, similar brick work is used for crosswalks at Location #2 and at the signalized intersection of Hampton Rd and Wright St. (White lines bordering the signalized crosswalks are being recommended to the City of Dallas). The presence of similar materials in locations where crosswalks are not intended may temporarily confuse distracted pedestrians. A design for crosswalks in the area that is consistent, legal, and distinct from architectural flourishes is recommended for proper emphasis of correct pedestrian crossing locations. Extend the existing crosswalk pavement markings across the area where pavers were removed.	\$ 51,900
6B-HA-ST-02	DART	Add crosswalk	Put white lines parallel to and outside of the existing brick crosswalk.	\$ 600
6B-HA-ST-03 6B-HA-ST-04	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
6B-HA-ST-05 6B-HA-ST-06	DART	Remove fence and add new ramps	Coordinate with City of Dallas to add two signed and marked, high-visibility crosswalks across Wright St at Hollywood Avenue. In conjunction with this improvement, some fence removal will be needed to provide gaps. Provide pedestrian ramps on the south side of Wright St to connect the new crosswalks to the existing sidewalk that is set back from the street by a grass strip. Cost shown includes only portion of work on south side of Wright St in or near DART right-of-way. See half-mile area improvements 6B-HA-CW-90 and 6B-HA-CW-91 for more details and cost information about related crosswalk improvements, including construction of median refuge islands for crossing Wright Ave.	\$ 7,300
6B-HA-ST-07	DART	Update sign	The existing STOP sign needs to be removed and replaced with a STOP sign on an octagonal panel that does not have the rectangular white background.	\$ 900

Opinion of Probable Cost - DART Subtotal..... \$ 62,400

Opinion of Probable Cost - Total for All Recommendations at Station..... \$ 62,400




DART Last Mile Connections Project - Hampton Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
6B-HA-ST-01	203 A	REMOVE BRICK PAVERS	Sq. Yd.	\$ 31.00	400.34	400	\$ 12,400.00	Assume an equivalent quantity of standard concrete pavement will be added. Assume 9' wide crosswalk 18' long, 50% covered with thermo and 50% to be added
Remove brick work; Extend crosswalk	457	6" THICK REINF CONC DRIVEWAY	Sq. Yd.	\$ 72.00	400.34	400	\$ 28,800.00	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	27	27	\$ 243.00	
		Contingency				25%	\$ 10,360.75	
	Subtotal						\$ 51,900.00	
6B-HA-ST-02	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	48	48	\$ 432.00	12" line on either side of 24' crosswalks
Add crosswalk		Contingency				25%	\$ 108.00	
		Subtotal					\$ 600.00	
6B-HA-ST-03 6B-HA-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	2 DO NOT ENTER signs
Update signs		Contingency				25%	\$ 325.00	
		Subtotal					\$ 1,700.00	
6B-HA-ST-05 6B-HA-ST-06	208	REMOVE FENCE	Lin. Ft.	\$ 6.00	10	10	\$ 60.00	Assume 10' fence will be removed and 2 new ramps will be built; assume ~40 LF of 5' wide sidewalk for connections
Remove fence and add new ramps	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	355	4" THICK REINF CONC WALK	Sq. Yd.	\$ 63.00	22.22	22	\$ 1,386.00	
		Contingency				25%	\$ 1,452.88	
	Subtotal						\$ 7,300.00	
6B-HA-ST-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	
Update sign		Update 1 sign				25%	\$ 162.50	
		Subtotal					\$ 900.00	
Grand Total							\$ 62,400.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency

Westmoreland Station

Opinion of Probable Constr. Cost = \$145,400

Improvement Code Legend
ID: 6C-W-ST-01
 6C ← Station Number ST ← Station Improvement
 W ← Station Abbreviation
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
6C-WM-ST-01	DART	Install Sign	Add pedestrian warning signs.	\$ 900
6C-WM-ST-02	DART	Add crosswalk	Stripe new pedestrian crosswalk.	\$ 1,700
6C-WM-ST-03	DART	Fix Ramp	Fix trip hazard where pedestrian ramp has loose bricks.	\$ 300
6C-WM-ST-04	DART	Update Pedestrian Warning Sign	Update westbound pedestrian warning sign to meet MUTCD standards. The existing signs have the wrong panel shape, and do not have supplemental arrow plaques as required to meet MUTCD standards. Add a new pedestrian warning sign facing eastbound traffic.	\$ 1,700
6C-WM-ST-05	DART	Update DO NOT ENTER Sign	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 900
6C-WM-ST-06	DART	Add crosswalk	Stripe new pedestrian crosswalk.	\$ 3,500
6C-WM-ST-07	DART	Install 2 stone pillar bollards	Install stone pillar bollards between the south side of the platform and the station parking area, similar to how they're present between the north side of the platform, to prevent motorized vehicles from trying to enter.	\$ 800
6C-WM-ST-08	DART	Relocate 2 Pedestrian Warning Signs. Build 2 new Pedestrian Warning Signs. Build 4 new ramps. Stripe 2 new pedestrian crosswalks.	Stripe a new crosswalk with new pedestrian ramps crossing from the northwest to northeast corner of the intersection. Relocate two pedestrian warning signs away from the stop-controlled crosswalks where they aren't needed (and where one partially obstructs the sidewalk). Relocate them adjacent to the new crosswalk across the north leg. Restripe the existing crosswalk from the southwest to southeast corner that has been mostly covered with new pavement. Add two new pedestrian ramps and two more pedestrian warning signs adjacent to it.	\$ 16,200
6C-WM-ST-09	DART	Relocate pedestrian light pole	Relocate pedestrian light pole by moving it out of the sidewalk to the north on the grass.	\$ 3,700
6C-WM-ST-10 6C-WM-ST-11	DART	Relocate 2 signs	Relocate the "STOP" and "DO NOT ENTER" signs off of the sidewalk so pedestrian travel will not be impeded.	\$ 600
6C-WM-ST-12	DART	Build new sidewalk	Add new sidewalk. Relocation of the existing streetlighting pole will be necessary. Add new crosswalk connecting to the north side of the station platform.	\$ 18,900
6C-WM-ST-13	DART	Build new sidewalk and crosswalk, build 2 new signs	Provide a new sidewalk connection through the DART Park & Ride lot to properties to the south along Glenfield Dr. Narrow the driveway aisle from the current 24 feet to 14 feet, making it one-way southbound, and use the extra 10 feet on the west side to provide a new sidewalk. Add two "DO NOT ENTER" signs at the south end of the driveway aisle. Coordinate with City of Dallas and private property owner to the south regarding connection to potential sidewalk on private property connecting to Glenfield Ave. Estimated cost shown is for DART property only. See half-mile area improvement 6C-WM-SW-120 for more details and cost information on portion of improvement on private property.	\$ 48,500
6C-WM-ST-14	DART	Build new sidewalk; Remove trees and tracks.	Pedestrians were observed walking on the entrance driveway here in the absence of sidewalk. New sidewalk is recommended to be built to accommodate pedestrian needs. Root damage to three trees may occur when building sidewalk near Westmoreland Rd. The abandoned, skewed BNSF freight rail spur tracks would need to be removed where they cross the proposed sidewalk alignment. The tracks are clearly no longer in use since they have been removed where they previously crossed Westmoreland Rd just to the west. Sidewalk near the east end of the segment may require removing a portion of the abandoned freight rail spur line to the south to avoid impacts to existing trees planted along the curb line.	\$ 36,100
6C-WM-ST-15	DART	Add crosswalk	Add a signed and marked high-visibility crosswalk across the DART station driveway south of the platform.	\$ 7,800
6C-WM-ST-16	DART	Add sidewalk	Add sidewalk from the south west end of the station platform for passengers walking to/from the south along Westmoreland Rd. Some regrading may be needed, and root damage could occur to a few trees depending on the sidewalk alignment.	\$ 3,800

Opinion of Probable Cost - DART Subtotal..... \$ 145,400
Opinion of Probable Cost - Total for All Recommendations at Station..... \$ 145,400



DART Last Mile Connections Project - Westmoreland Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
6C-WM-ST-01	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Install 1 pedestrian warning sign
Install Sign		<i>Contingency</i>				25%	\$ 162.50	
	Subtotal						\$ 900.00	
6C-WM-ST-02	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	150	150	\$ 1,350.00	Assume 6' wide crosswalk 30' long, 50% covered with thermo.
Add crosswalk		<i>Contingency</i>				25%	\$ 337.50	
	Subtotal						\$ 1,700.00	
6C-WM-ST-03	XXX	Fix trip hazard		\$ 200.00	1	1	\$ 200.00	Assume material cost nominal with most of cost labor.
Fix Ramp		<i>Contingency</i>				25%	\$ 50.00	
	Subtotal						\$ 300.00	
6C-WM-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	2 signs
Update Pedestrian Warning Sign		<i>Contingency</i>				25%	\$ 325.00	
	Subtotal						\$ 1,700.00	
6C-WM-ST-05	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	1 sign
Update DO NOT ENTER Sign		<i>Contingency</i>				25%	\$ 162.50	
	Subtotal						\$ 900.00	
6C-WM-ST-06	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	165	165	\$ 1,485.00	Assume 6' wide crosswalk 33' long, 50% covered with thermo.
Add crosswalk	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
		<i>Contingency</i>				25%	\$ 696.25	
		Subtotal					\$ 3,500.00	
6C-WM-ST-07	XXX	Install stone pillar bollards	Each	\$ 300.00	2	2	\$ 600.00	Install 2 stone pillar bollards; Assuming \$300 /unit
Install 2 stone pillar bollards		<i>Contingency</i>				25%	\$ 150.00	
		Subtotal					\$ 800.00	
6C-WM-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Relocate 2 Pedestrian Warning Signs. Build 2 new Pedestrian Warning Signs. Build 4 new ramps. Stripe 2 new pedestrain crosswalks. Assume 6' wide crosswalk (30'+25') long, 50% covered with thermo.
Relocate 2 Pedestrian Warning Signs. Build 2 new Pedestrian Warning Signs. Build 4 new ramps. Stripe 2 new pedestrain crosswalks.	618	BARRIER FREE RAMP	Each	\$ 2,182.75	4	4	\$ 8,731.00	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	275	275	\$ 2,475.00	
	728	REMOVE AND RESET SIGN	Each	\$ 223.00	2	2	\$ 446.00	
		<i>Contingency</i>				25%	\$ 3,238.00	
	Subtotal						\$ 16,200.00	
6C-WM-ST-09	1001 A	REMOVE STREET LIGHT POLE AND ASSEMBLY	Each	\$ 585.00	1	1	\$ 585.00	Relocate 1 pedestrian light pole
Relocate pedestrian light pole	8777 BBB	STANDARD ONCHOR LIGHT POLE	Each	\$ 2,323.00	1	1	\$ 2,323.00	
		<i>Contingency</i>				25%	\$ 727.00	
		Subtotal					\$ 3,700.00	
6C-WM-ST-10 6C-WM-ST-11	728	REMOVE AND RESET SIGN	Each	\$ 223.00	2	2	\$ 446.00	Relocate 2 signs
Relocate 2 signs		<i>Contingency</i>				25%	\$ 111.50	
		Subtotal					\$ 600.00	

DART Last Mile Connections Project - Westmoreland Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
6C-WM-ST-12	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	88.9	89	\$ 5,607.00	Assume 160*5=800 sf. For crosswalk, assume 6' wide crosswalk 18' long.
Build new sidewalk	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	36	36	\$ 324.00	
	689	LIGHT POLE RELOCATION	Each	\$ 4,758.00	1	1	\$ 4,758.00	
		Contingency				25%	\$ 3,763.63	
		Subtotal					\$ 18,900.00	
6C-WM-ST-13	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	155.6	156	\$ 9,828.00	For sidewalk, assume 200 ft * 7 ft = 1400 sf. For crosswalk, assume 6' wide crosswalk 32' long, 50% covered with thermo.
Build new sidewalk and crosswalk, build 2 new signs	458	CURB AND GUTTER	Lin. Ft.	\$ 39.72	200.0	200	\$ 7,944.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	160	160	\$ 1,440.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	4	4	\$ 2,600.00	
	201	REMOVE CONCRETE PAVEMENT DRIVE AND APRON	Sq. Yd.	\$ 71.00	155.6	156	\$ 11,076.00	
	202	REMOVE SEP CONC CURB W/WO GUTTER	Lin. Ft.	\$ 8.00	190	190	\$ 1,520.00	
		Contingency				25%	\$ 9,693.38	
	Subtotal					\$ 48,500.00		
6C-WM-ST-14	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	327.8	328	\$ 20,664.00	For sidewalk, assume 590' length
Build new sidewalk; Remove trees and tracks.	XXX	STREET EXCAVATION (REMOVE TRACKS)	CY	\$ 37.00	220	220	\$ 8,140.00	
		Contingency				25%	\$ 7,201.00	
	Subtotal					\$ 36,100.00		
6C-WM-ST-15	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	60	60	\$ 540.00	Assume 6' wide crosswalk 30' long
Add crosswalk	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
		Contingency				25%	\$ 1,551.38	
	Subtotal					\$ 7,800.00		
6C-WM-ST-16	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	33.3	34	\$ 2,142.00	Assume 60*5 = 300 sf
Add sidewalk		TREE REMOVAL	Each	\$ 886.00	1	1	\$ 886.00	
		Contingency				25%	\$ 757.00	
	Subtotal					\$ 3,800.00		
Grand Total							\$ 145,400.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency

Illinois Station

Opinion of Probable Constr. Cost = \$34,400

Improvement Code Legend
ID: 7A-IL-ST-01
 7A ← Station Number ST ← Station Improvement
 IL ← Station Abbreviation
 01 ← Improvement Number (matches on Map)

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
7A-IL-ST-01 7A-IL-ST-02	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards. Increase the size of STOP signs to obscure the shape of signs mounted on the other side. For #1, tree trimming or STOP sign relocation is needed to avoid branches obscuring the sign.	\$ 3,300
7A-IL-ST-03 7A-IL-ST-04	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
7A-IL-ST-05 7A-IL-ST-06	DART	Update signs	Update pedestrian warning signs to meet MUTCD standards. The existing signs have the wrong panel shape, and do not have supplemental arrow plaques as required to meet MUTCD standards.	\$ 1,700
7A-IL-ST-07 7A-IL-ST-08	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
7A-IL-ST-09	DART	Build new pedestrian ramp	Build new ramp to accommodate pedestrian needs.	\$ 2,800
7A-IL-ST-10	DART	Build new pedestrian ramps, sidewalk and crosswalk. Remove fence and trees. Add 2 pedestrian warning signs.	Build new connection from #4 to sidewalk on north side of Louisiana Ave. The improvement would include a small segment of sidewalk (including ramps), crosswalk striping and removal of a segment of existing fence. One or two trees may experience root damage or need to be removed. Add 2 pedestrian warning signs.	\$ 13,600
7A-IL-ST-11	DART	Build new pedestrian ramps and sidewalks. Remove fence segment to connect to sidewalk outside station. Add 2 pedestrian warning signs. Remove existing crosswalk and stripe new crosswalk.	Build pedestrian ramps, short sidewalk segment, and provide break in fence at DART property boundary to connect station platform to future Regional Veloweb trail. Remove existing crosswalk inside fenced police station parking lot. Add new crosswalk outside of fenced lot with 2 pedestrian warning signs.	\$ 9,600

Opinion of Probable Cost - DART Subtotal..... \$ 34,400
Opinion of Probable Cost - Total for All Recommendations at Station..... \$ 34,400

DART Last Mile Connections Project - Illinois Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
7A-IL-ST-01 7A-IL-ST-02	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	4	4	\$ 2,600.00	Update 4 DO NOT ENTER signs
Update signs		<i>Contingency</i>				25%	\$ 650.00	
	Subtotal						\$ 3,300.00	
7A-IL-ST-03 7A-IL-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 DO NOT ENTER signs
Update signs		<i>Contingency</i>				25%	\$ 325.00	
	Subtotal						\$ 1,700.00	
7A-IL-ST-05 7A-IL-ST-06	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 PED signs
Update signs		<i>Contingency</i>				25%	\$ 325.00	
	Subtotal						\$ 1,700.00	
7A-IL-ST-07 7A-IL-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 DO NOT ENTER signs
Update signs		<i>Contingency</i>				25%	\$ 325.00	
	Subtotal						\$ 1,700.00	
7A-IL-ST-09	618	BARRIER FREE RAMP	Each	\$ 2,182.75	1	1	\$ 2,182.75	Build 1 new pedestrian ramp
Build new pedestrian ramp		<i>Contingency</i>				25%	\$ 545.69	
	Subtotal						\$ 2,800.00	
7A-IL-ST-10	208	REMOVE FENCE	Lin. Ft.	\$ 6.00	10	10	\$ 60.00	Assume 10' fence will be removed, 2 new ramps will be built and 2 trees will be removed. Assume 6' wide crosswalk 25' long, 50% covered with thermo. For sidewalk, assume 45*7=315 sf.
Build new pedestrian ramps, sidewalk and crosswalk. Remove fence and trees. Add 2 pedestrian warning signs.	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	125	125	\$ 1,125.00	
	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	35	35	\$ 2,205.00	
	639	REMOVE TREE	Each	\$ 886.00	2	2	\$ 1,772.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
		<i>Contingency</i>				25%	\$ 2,706.88	
	Subtotal						\$ 13,600.00	


DART Last Mile Connections Project - Illinois Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions	
7A-IL-ST-11	208	REMOVE FENCE	Lin. Ft.	\$ 6.00	10	10	\$ 60.00	Assume 10' fence will be removed and 2 new ramps will be built. For sidewalk, assume 10*7=70 sf. Assume 30' crosswalk will be removed and restriped.	
Build new pedestrian ramps and sidewalks. Remove fence segment to connect to sidewalk outside station. Add 2 pedestrian warning signs. Remove existing crosswalk and stripe new crosswalk.	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50		
	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	7.78	8	\$ 504.00		
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00		
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	150	150	\$ 1,350.00		
	720 C	LANE MARKER REMOVAL	Lin. Ft.	\$ 2.00	30	30	\$ 60.00		
		<i>Contingency</i>					25%		\$ 1,909.88
		Subtotal							\$ 9,600.00
Grand Total							\$ 34,400.00		

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
25% Total Contingency			

Kiest Station

Opinion of Probable Constr. Cost = \$58,800

Improvement Code Legend
ID: 7B-KS-ST-01
 7B ← Station Number ST ← Station Improvement
 KS ← Station Abbreviation
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
7B-KS-ST-01	DART/City of Dallas	Remove existing ped pushbuttons and install new APS; Build one new APS pole; Integrate traffic signal with the constant warning time system	The pushbutton to activate the crosswalk across southbound Lancaster Rd from the station platform is located in a dangerously narrow 2.5' wide space between the dynamic envelope of the southbound light rail trains and the southbound travel lanes on Lancaster Rd. Coordinate with City of Dallas to remove the pushbutton from this pole and install a new pushbutton on a separate pole from the pedestrian signal, which should remain in its existing location. The new pushbutton should be located on the station platform, east of the southbound track. Due to proximity to another pushbutton for crossing the northbound lanes, all existing pushbuttons at the crossing of both northbound and southbound lanes will need to be replaced with accessible pedestrian signal (APS) pushbuttons, and voice messages will need to be used to differentiate between the crossings each pushbutton serves. Integrate the traffic signal controller with the light rail constant warning time equipment so that pedestrian calls across the southbound Lancaster Rd lanes are not served when trains are present or approaching.	\$ 58,800
Opinion of Probable Cost - DART Subtotal.....				\$ 58,800
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 58,800

DART Last Mile Connections Project - Kiest Station Preliminary Opinion of Probable Construction Cost


Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
7B-KS-ST-01	801	REMOVAL OF PEDESTRIAN PUSHBUTTON	Each	\$ 43.00	5	5	\$ 215.00	Assume removing 5 existing ped push buttons and install 5 new ones.
Remove existing ped pushbuttons and install new APS; Build one new APS pole; Integrate traffic signal with the constant warning time system	749	PROC & INSTALL PEDE PUSH BUTTON/SIGN	Each	\$ 1,255.00	5	5	\$ 6,275.00	
	691	PROCURE AND INSTALL PEDESTRIAN LIGHT POLE	Each	\$ 2,158.00	1	1	\$ 2,158.00	
	XXX	Integrate traffic signal with the constant warning time system	Each	\$ 10,000.00	1	1	\$ 10,000.00	
	500	MOBILIZATION	LS	\$ 12,000.00	1	1	\$ 12,000.00	
	680	INSTALL HWY TRAF SIG (ISOLATED)	Each	\$ 10,000.00	1	1	\$ 10,000.00	
	687	PED POLE ASSEMBLY	Each	\$ 2,100.00	1	1	\$ 2,100.00	
	688	PED DETECTOR CONTROLLER UNIT	Each	\$ 3,400.00	1	1	\$ 3,400.00	
	769	INSTALL PEDESTAL POLE FOUNDATION	Each	\$ 865.00	1	1	\$ 865.00	
		<i>Contingency</i>					25%	
	Subtotal						\$ 58,800.00	
Grand Total							\$ 58,800.00	

Contingency Items:	Contingency	Contingency Items:	Contingency	25% Total Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%	
Mobilization	4%	Traffic Control Allowance	3%	
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%	

VA Medical Center Station

Opinion of Probable Constr. Cost = \$70,800

Improvement Code Legend
ID: 7C-VA-ST-01

7C ← Station Number ST ← Station Improvement
 VA ← Station Abbreviation
 01 ← Improvement Number (matches  on Map)

North Central Texas Council of Governments



DART Red & Blue Line Corridors Last Mile Connections

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
7C-VA-ST-01	DART	Replace ped pushbuttons	Coordinate with City of Dallas to replace all existing pedestrian pushbuttons at the intersection of Lancaster Rd with Mentor Ave/Ave of Flags with accessible pedestrian signal (APS) pushbuttons, relocated to accessible locations. These improvements are important given the higher need for accessibility adjacent to the VA Medical Center.	\$ 70,800
Opinion of Probable Cost - City of Dallas Subtotal.....				\$ 70,800
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 70,800



DART Last Mile Connections Project - VA Medical Center Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
7C-VA-ST-01	688	PED DETECTOR CONTROLLER UNIT	Each	\$ 3,400.00	2	2	\$ 6,800.00	Assume 5 ped pushbuttons within DART property area
Replace ped pushbuttons	500	MOBILIZATION	LS	\$ 12,000.00	1	1	\$ 12,000.00	
	680	INSTALL HWY TRAF SIG (ISOLATED)	Each	\$ 10,000.00	1	1	\$ 10,000.00	
	749	PROC & INSTALL PEDE PUSH BUTTON/SIGN	Each	\$ 1,255.00	10	10	\$ 12,550.00	
	769	INSTALL PEDESTAL POLE FOUNDATION	Each	\$ 865.00	5	5	\$ 4,325.00	
	687	PED POLE ASSEMBLY	Each	\$ 2,100.00	5	5	\$ 10,500.00	
	801	REMOVAL OF PEDESTRIAN PUSHBUTTON	Each	\$ 43.00	10	10	\$ 430.00	
			<i>Contingency</i>				25%	
	Subtotal						\$ 70,800.00	
Grand Total							\$ 70,800.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
25% Total Contingency			

Cedars Station

Improvement Code Legend
 ID: 8C-C-ST-01
 8C ← Station Number ST ← Station Improvement
 C ← Station Abbreviation
 01 ← Improvement Number (matches on Map)



Opinion of Probable Constr. Cost = \$33,300

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
8C-C-ST-01	DART	Add crosswalk	Add crosswalk striping parallel to and on either side of the decorative brick crosswalks to make them high-visibility crosswalks and to properly define them as legal crosswalks where pedestrians have the right-of-way.	\$ 2,300
8C-C-ST-02 8C-C-ST-03	DART	Update signs	Update pedestrian warning signs to meet MUTCD standards. The existing signs do not have supplemental arrow plaques as required to meet MUTCD standards.	\$ 1,700
8C-C-ST-04	DART	Build new ramps, Add crosswalk	Install white lines at existing crosswalk. Add ramps to accommodate pedestrian needs.	\$ 24,700
8C-C-ST-05	DART	Add crosswalk	Add crosswalk striping parallel to and on either side of the decorative brick crosswalks to make them high-visibility crosswalks and to properly define them as legal crosswalks where pedestrians have the right-of-way.	\$ 1,800
8C-C-ST-06	DART	Update sign	Update pedestrian warning signs to meet MUTCD standards. The existing do not have supplemental arrow plaques as required to meet MUTCD standards.	\$ 2,800
Opinion of Probable Cost - DART Subtotal.....				\$ 33,300
Opinion of Probable Cost - Total for All Recommendations at Station.....				\$ 33,300



DART Last Mile Connections Project - Cedars Station Preliminary Opinion of Probable Construction Cost

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
8C-C-ST-01	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	204	204	\$ 1,836.00	12" line on either side of 102' crosswalks
Add crosswalk		Contingency				25%	\$ 459.00	
	Subtotal						\$ 2,300.00	
8C-C-ST-02 8C-C-ST-03	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 PED signs
Update signs		Contingency				25%	\$ 325.00	
	Subtotal						\$ 1,700.00	
8C-C-ST-04	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	252	252	\$ 2,268.00	12" line on either side of crosswalks, assume 8 new ramps
Build new ramps, Add crosswalk	618	BARRIER FREE RAMP	Each	\$ 2,182.75	8	8	\$ 17,462.00	
		Contingency				25%	\$ 4,932.50	
		Subtotal					\$ 24,700.00	
8C-C-ST-05	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	152	152	\$ 1,368.00	12" line on either side of 138' crosswalks
Add crosswalk		Contingency				25%	\$ 342.00	
	Subtotal						\$ 1,800.00	
8C-C-ST-06	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	3	3	\$ 1,950.00	Update 1 PED sign, add 2 ped signs and relocated 1 sign
Update sign	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	
		Contingency				25%	\$ 543.25	
		Subtotal					\$ 2,800.00	
Grand Total							\$ 33,300.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency