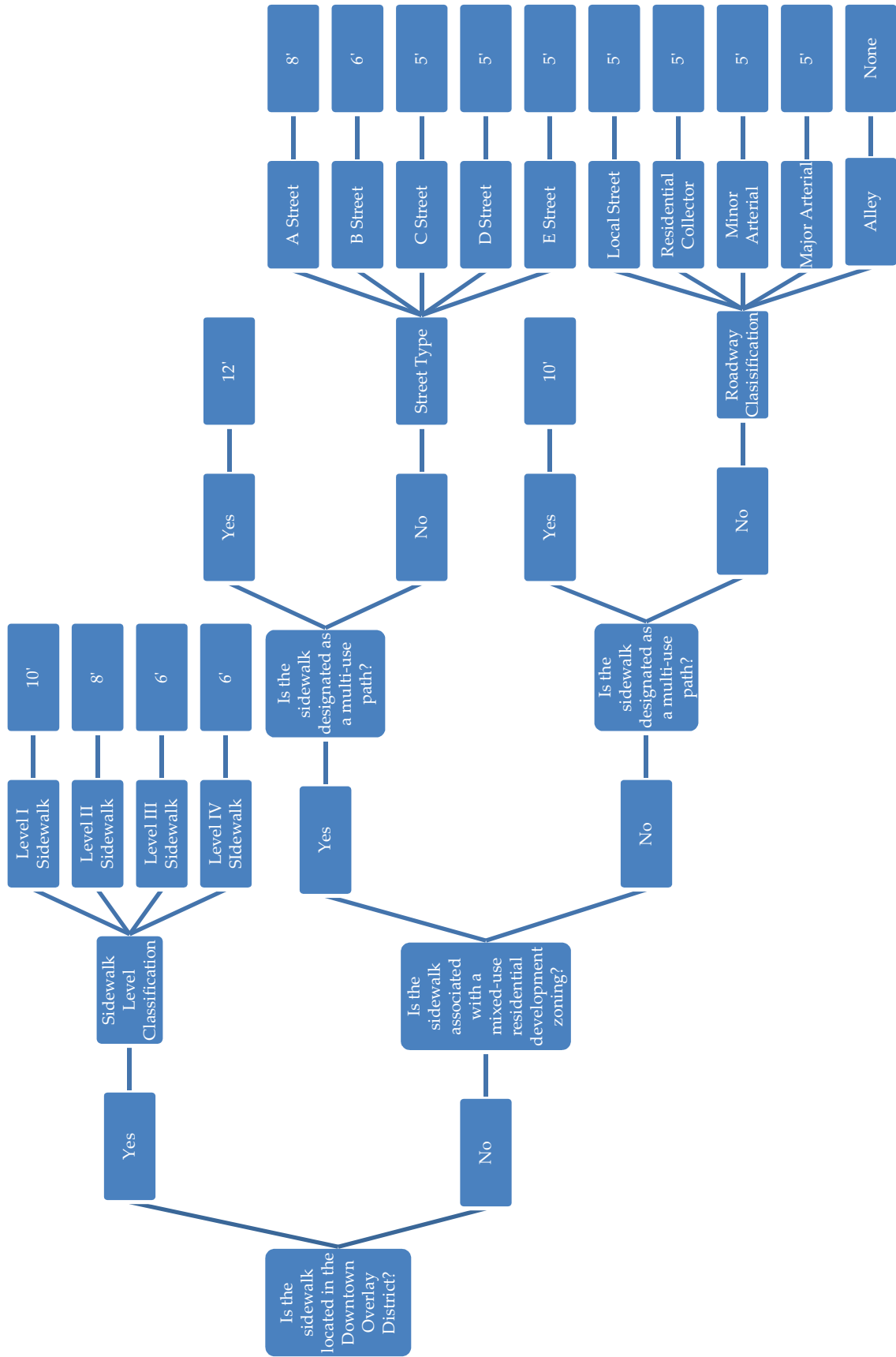


# Sidewalk Design - Current Requirements



# Downtown Assessment Criteria

Item	Title	Data Type	Compliant	Element	Measurement
1	Curb Ramp	Point	Yes	Running slope	8-9%
				Cross slope	9-10%
				Landing	2-3%
				Detectable warnings	3-4%
				Flares	3-4%
				Side	10-12%
2	Sidewalk	Line	No	Counter Slope	Left
				Not within crosswalk	Right
				Running slope	5-6%
				Cross slope	6-7%
				Width	6-7%
				Steps	3-4%
3	Changes in Level	Point		Missing passing space	-Enter text-
				Vertical deflection	1/4" - 1/2"
				Horizontal deflection	1/2" - 1"
				Paver deflection	> 1/2"
				Panel deflection	1/4" - 1/2"
					1/2" - 1"
4	Pedestrian Push Button	Point	No	Direction	North
				Outside of reach range	South
				Landing Slope	East
				Landing on ramp	West
					2-3%
					3-4%
	4-6%				
	6-8%				
	>8%				

# Downtown Assessment Criteria

Item	Issue	Data type	Compliant	Element	Measurement		
5	Protruding Object	Point	No	City banner sign			
				Traffic sign			
				Business sign			
				Awnings			
				Tree			
6	Door	Point	No	Mail box			
				Handrail			
				Other	-Enter text-		
7	Ramp	Point	No	Vertical deflection	-Enter text-		
				Running slope	8-9%	9-10%	>10%
				Cross slope	2-3%	3-4%	>4%
				No handrail			
8	Driveway	Point	No	Handrail height	-Enter text-		
				Handrail extension	Missing	Turned	
				No edge protection			
				Running slope	5-6%	6-7%	>8%
9	Crosswalk	Point	No	Cross slope	2-3%	3-4%	>4%
				Needs curb ramp(s)	1	2	
				Cross slope	2-3%	3-4%	>4%
10	Marked ADA Parking	Point	Marked				

# Downtown Sidewalk Assessment

## Infrastructure Inventory Summary

An inventory of sidewalks facilities was completed within the City of Georgetown Downtown District in July 2014. The following summarizes the results of the assessment.

Infrastructure	Total Quantity	Non-Compliant
Sidewalk	38,858 lf	5,696 lf
Curb Ramps	268 each	174 each
Pedestrian Crosswalks	174 each	17 each
Protruding Objects	N/A	174 each
Pedestrian Push Buttons	48 each	8 each
Doors	N/A	55 each
Ramps	7 each	7 each
Driveways	N/A	67 each

## Sidewalk Assessment

Sidewalk Condition	Description	Criteria	Quantity
Compliant	Sidewalk that complies with all applicable elements	<ul style="list-style-type: none"> <li>Compliant</li> </ul>	33,162 lf (85%)
Non-Compliant	Sidewalk that does not comply with one or more applicable elements	<ul style="list-style-type: none"> <li>Running Slope &gt;5% and Exceeds Running Slope of Adjacent Street</li> <li>Cross Slope &gt;2%</li> <li>Width &lt;5' with no passing space</li> <li>Steps as Only Means of Travel</li> <li>Vertical Deflection &gt;1/2"</li> <li>Horizontal Opening &gt;1/2"</li> </ul>	5,696 lf (15%)
<b>Total Linear Feet</b>			<b>38,858 lf (100%)</b>

# Downtown Sidewalk Assessment

## Curb Ramp Assessment

<b>Curb Ramp Condition</b>	<b>Description</b>	<b>Criteria</b>	<b>Quantity</b>
Compliant	Curb ramp that complies with all applicable elements	<ul style="list-style-type: none"> <li>• Compliant</li> </ul>	94 (35%)
Non-Compliant	Curb ramp that does not comply with one or more applicable elements	<ul style="list-style-type: none"> <li>• Running Slope &gt;8.3%</li> <li>• Cross Slope &gt;2%</li> <li>• Landing &gt;2%</li> <li>• No detectible warnings</li> <li>• Flare(s) Slope &gt;10%</li> <li>• Counter Slope &gt;5%</li> <li>• Not within crosswalk</li> </ul>	174 (65%)
<b>Total Number</b>			<b>268</b> <b>(100%)</b>

## Crosswalk Assessment

<b>Crosswalk</b>	<b>Description</b>	<b>Criteria</b>	<b>Quantity</b>
Compliant	Crosswalks at intersections	<ul style="list-style-type: none"> <li>• Compliant</li> </ul>	157 (90%)
Non-Compliant	Crosswalks at intersections	<ul style="list-style-type: none"> <li>• Running Slope &gt;5% or Greater Than Running Slope of Parallel Street</li> <li>• Cross Slope &gt;2%</li> </ul>	17 (10%)
<b>Total Number</b>			<b>174</b> <b>(100%)</b>

# Downtown Sidewalk Assessment

## Protruding Object Assessment

Protruding Object	Description/Criteria	Object	Quantity
Non-Compliant	Fixed object that protrudes more than 4" from a wall or more than 12" if mounted on a pole. The object is located between 27" and 80" from the ground.	<ul style="list-style-type: none"> <li>• Business Sign</li> <li>• City Banner</li> <li>• Trees / Vegetation</li> <li>• Traffic Sign</li> <li>• Drinking Fountain</li> <li>• Signage</li> <li>• Exterior Stairwell</li> </ul>	2 9 156 2 1 1 3
<b>Total Number</b>			<b>174</b>

## Non-Accessible Push Button Assessment

Push Button	Description	Criteria	Quantity
Compliant	Pedestrian push button for activation of pedestrian crossing signal	<ul style="list-style-type: none"> <li>• Compliant</li> </ul>	40 (83%)
Non-Compliant	Pedestrian push button for activation of pedestrian crossing signal	<ul style="list-style-type: none"> <li>• Slope &gt;2% at Clear Space</li> <li>• Not Within Reach Range</li> </ul>	8 (17%)
<b>Total Number</b>			<b>48</b>

## Non-Accessible Door Assessment

Door	Description	Criteria	Quantity
Total Non-Compliant	Doors providing access to and from the sidewalk along the public right-of-way	<ul style="list-style-type: none"> <li>• Vertical Deflection &gt;1/2"</li> <li>• Missing Clear Space on Latch Side</li> <li>• Slope &gt;2% at Clear Space</li> </ul>	55

# Downtown Sidewalk Assessment

## Non-Accessible Ramp Assessment

Ramp	Description	Criteria	Quantity
Compliant	Ramps are part of the accessible route that exceeds 5% in running slope	<ul style="list-style-type: none"> <li>Compliant</li> </ul>	0 (0%)
Non-Compliant	Ramps are part of the accessible route that exceeds 5% in running slope	<ul style="list-style-type: none"> <li>Running Slope &gt;8.3%</li> <li>Cross Slope &gt;2%</li> <li>Missing Handrail</li> <li>Handrail at Wrong Height</li> <li>Incorrect Handrail Extension</li> <li>Missing Edge Protection</li> </ul>	7 (100%)
<b>Total Number</b>			<b>7</b>

## Non-Accessible Driveway Assessment

Driveway	Description	Criteria	Quantity
Non-Compliant	Driveways that are part of the accessible route	<ul style="list-style-type: none"> <li>Running Slope &gt;5%</li> <li>Cross Slope &gt;2%</li> <li>Width &lt;3'</li> <li>Missing Curb Ramp(s)</li> </ul>	67

# Sidewalk Assessment Criteria

The sidewalk assessment criteria and evaluation categories described below are for use in sidewalk assessment and preparation of a sidewalk implementation plan. The categories do not include evaluation criteria for the detailed ADA Assessment Survey for the Downtown District.

Item	Title	Evaluation Category	Measurement	Description
1	Curb Ramps	Overall Condition	1 Good	Good functional ramp, does not need replacing
			2 Functional	Functional ramp though does not appear ADA compliant (missing warning surface, skewed directionality)
			3 Non Functional	Non functional ramp (excessive slope, broken)
			4 No Ramp	No ramp present
	Slope		Good	Appears to be < 8%
			Excessive	Appears to be > 8%
	Faulting		Yes	
			No	
	Distortion		Yes	
			No	
	Sunken		Yes	
			No	
	Located Inside Crosswalk Markings		Yes	Sloped portion of curb ramp (excludes wings) is located between the crosswalk markings
			No	
	Detectible Warning Surface		Yes	New modern domed warning surfaces
			No	



# Sidewalk Assessment Criteria

Item	Title	Evaluation Category	Measurement	Description
2	Sidewalk	Overall Condition	1 Excellent 2 Good 3 Passable 4 Limited Failures 5 Failing	New or nearly new sidewalk Functional sidewalk, good condition, may be of insufficient width Functional sidewalk with no noticeable failures, may be of insufficient width Functional with spot failures
		Width	XXXXX	Nonfunctional, cannot be used by wheelchairs, difficult for pedestrians Estimated width based on aerial and field observation (feet)
		Exceeds Running Slope of Pavement	Yes No	Slope of sidewalk as compared to adjacent roadway based on field observations (no measurements)
		Faulting	Yes No	
		Distortion	Yes No	
		Sunken	Yes No	
		Repair Area	XXXXX	Estimated area in need of repair (linear feet)
		Driveways	XXXXX	Number of driveways in segment (#)
		Obstructions (utility pole)	XXXXX	Number of obstacles in sidewalk resulting in sidewalk width less than ~36"
		Obstructions (fire hydrant)	XXXXX	
		Obstructions (utility meters)	XXXXX	

# Sidewalk Assessment Criteria

	Obstructions (tree/vegetation)	XXXXX
	Obstructions (sign)	XXXXX
	Obstructions (bench)	XXXXX
	Obstructions (trash receptacle)	XXXXX
	Obstructions (other)	XXXXX
3	Crosswalk Pedestrian Push Button	Yes
		No
	Crosswalk Striping	Yes
		No

Description of obstacle type  
 Presence of pedestrian push buttons  
 Presence of striped crosswalk

Notes:

- Default value will be N/A for all measurements. Input not required.
- Sidewalks will be evaluated on a segment basis, where a segment is defined a roadway segment between two roadway intersections.

# Sidewalk Assessment

## Infrastructure Inventory Summary

An inventory of sidewalks facilities was completed within the City of Georgetown City Limits in July and August of 2014. The following summarizes the results of the assessment. Quantities include all sidewalks within the City Limits, including the Downtown District and on TxDOT facilities.

Infrastructure	Quantity
Total Sidewalks	759,112 lf (144 miles)
Sidewalks in the Downtown District	38,858 lf (7 miles)
Total Roadways with No Sidewalks	2,045,678 lf (387 miles)
Total Curb Ramps	2,368 each
Curb Ramps in the Downtown District	268 each
Total Crosswalks	361 each
Crosswalks in the Downtown District	174 each

## Sidewalk Assessment

Quantities include all sidewalks within the City Limits, including the Downtown District and on TxDOT facilities.

Sidewalk Condition	Description	Quantity	Percentage
Excellent	New or nearly new sidewalk	47,013 lf	6%
Good	Functional sidewalk, good condition, may be of insufficient width	474,988 lf	63%
Passable	Functional sidewalk with no noticeable failures, may be of insufficient width	132,249 lf	18%
Limited Failures	Functional with spot failures	48,836 lf	6%
Failing	Nonfunctional, cannot be used by wheelchairs, difficult for pedestrians	56,026 lf	7%
<b>Total</b>		<b>759,112 lf</b>	<b>100%</b>

## Sidewalk Assessment

The following sidewalk failures were identified in sidewalks classified as passable, limited failures, or failing. It should be noted that some sidewalks can have multiple types of failures. The sidewalk failures, totaled below, are for the entire length of sidewalk to be repaired. Further detail is presented on estimated repair areas, below.

Sidewalk Failures	Quantity	Percentage
Excessive Slope	7,703 lf	1%
Faulting	58,231 lf	8%
Distortion	108,594 lf	14%
Sunken	20,746 lf	3%
Obstructions	43,969 lf	6%

Sidewalk Failures	Quantity	Percentage
Estimated Repair Area	39,441 lf	5%

### Curb Ramp Assessment

Quantities include all curb ramps within the City Limits, including the Downtown District and or TxDOT facilities.

Curb Ramp Condition	Description	Quantity	Percentage
Good	Good functional curb ramp, does not need replacing	675	28%
Functional	Functional curb ramp though does not appear ADA compliant (missing warning surface, skewed directionality)	1,171	48%
Non Functional	Non functional curb ramp (excessive slope, broken)	516	24%
Not Inventoried	Not Inventoried (under construction)	6	0%
<b>Total</b>		<b>2,368</b>	<b>100%</b>

The following curb ramp failures were identified in curb ramps classified as functional or non-functional. It should be noted that some curb ramps can have multiple types of failures. The presence of a non-compliant ADA detectable warning surface did not result in a non-functional curb ramp classification.

Curb Ramp Failures	Quantity	Percentage
Slope	382	16%
Faulting	105	4%
Distortion	47	2%
Sunken	22	1%
Located Outside Crosswalk	18	1%
Non-Compliant ADA Detectable Warning Surface	1,012	43%

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# Sidewalk Assessment

## Crosswalk Assessment

Quantities include all crosswalks within the City Limits, including the Downtown District and on TxDOT facilities. It should be noted that crosswalks may have striping and/or pedestrian push buttons.

<b>Crosswalk</b>	<b>Description</b>	<b>Quantity</b>	<b>Percentage</b>
Striped	Striped crosswalks (does not include decorative pavers)	266	74%
Pedestrian Push Button	Crosswalks with pedestrian push buttons	98	26%
<b>Total Number</b>		<b>361</b>	

# Sidewalk Prioritization Methodology

Category	Element	Criteria	Points	Weighted % to	
				Subtotal	% to Total
Pedestrian Attractors	Downtown District	Segment is within the Downtown District	100	18%	
	Proximity to Schools (GISD)	Segment is within 1/8 mi of a GISD school Segment is within 1/4 mi of a GISD school	100 50	17%	
	Proximity to Schools (Southwestern University)	Segment is within 1/8 mi of Southwestern University	100	16%	
	Proximity to Trails	Segment is within 1/4 mi of Trail Access Segment is within 1/2 mi of Trail Access	100 50	11%	
	Proximity to Retail	Segment is within 1/8 mi of Retail Segment is within 1/4 mi of Retail	100 50	11%	30%
	Proximity to Single Family Residential Land Uses	Segment is within 1/8 mi of a Single Family Residential Land Use Segment is within 1/4 mi of a Single Family Residential Land Use	100 50	11%	
	Proximity to Playground/Parks	Segment is within 1/8 mi of Public Recreational Facility/Playground Segment is within 1/4 mi of Public Recreational Facility/Playground	100 50	8%	
	Proximity to Multi Family Residential Land Uses	Segment is within 1/8 mi of a Multi Family Residential Land Use Segment is within 1/4 mi of a Multi Family Residential Land Use	100 50	4%	
	Proximity to City Facilities	Segment is within 1/8 mi of a City Facility Segment is within 1/4 mi of a City Facility	100 50	4%	
	Proximity to Freeway/Tollway	Segment is on a Freeway/Tollway	0		
Pedestrian Safety	Functionally Classified Streets	Segment is on an Arterial Segment is on a Collector	100 50	50%	15%
	Pedestrian/Automobile Incidents	Segment is on a Local Street Pedestrian-Auto Crash on Facility in last 5 years	0 100	50%	
Demographics	Median Household Income	Segment is within an area with greater than 47% of the population at low to moderate income households	100	33%	
	Residential Population Density	Segment is within an area with population density greater than 3,000 people per square mile Segment is within an area with population density greater than 2,000 people per square mile	100 50	33%	15%
	Residential Housing Type	Segment is within 1/8 mi of Affordable Housing Segment is within 1/4 mi of Affordable Housing	100 50	33%	
		Requested by GISD Requested by Parks&Rec	100 100	14% 14%	
Special Considerations	Agency Request	Requested as Phase I Priority in 2001 Sidewalk Master Plan	200	14%	
		Requested as Phase II Priority in 2001 Sidewalk Master Plan	100		
		Requested as Priority 1 in the Downtown Master Plan	200		
		Requested as Priority 2 in the Downtown Master Plan	100		40%
		Requested as Priority 3 in the Downtown Master Plan	50		14%
		Requested by Public (Greater than 5 requests)	200		14%
Other		Requested by Public	100	14%	
		Requested by Others	100	14%	
		Segment less than 200' in length with no sidewalk (i.e. a "sidewalk gap")	200	14%	

# Bid Item Unit Prices

ITEM NO	DESCRIPTION	UNITS	BID
104 2015	REMOVING CONC (SIDEWALKS)	LF	\$8
104 2032	REMOVING CONC (WHEELCHAIR RAMP)	RAMP	\$400
529 2004	CONC CURB & GUTTER (TY II)	LF	\$15
531 ****	CONC SIDEWALKS (6")	LF OF 6' SIDEWALK	\$40
531 ****	CURB RAMPS	EA	\$1,700
618 2018	CONDT (PVC) (SCHD 40) ( 2")	LF	\$8
620 2011	ELEC CONDR (NO. 8) BARE	LF	\$1
666 2041	REFL PAV MRK TY I (W) 12"(SLD)(090MIL)	LF	\$13
666 2047	REFL PAV MRK TY I (W) 24"(SLD)(090MIL)	LF	\$15
666 2155	REF PAV MRK TY II (W) 12" (SLD)	LF	\$2
666 2157	REF PAV MRK TY II (W) 24" (SLD)	LF	\$4
677 2001	ELIM EXT PAV MRK & MRKS ( 4")	LF	\$1
677 2007	ELIM EXT PAV MRK & MRKS (24")	LF	\$4
680 2003	INSTALL HWY TRF SIG (SYSTEM)	EA	\$6,000
682 2066	PED SIG SEC (12 IN) LED (COUNTDOWN)	EA	\$800
684 2028	TRF SIG CBL (TY A) (14 AWG) ( 2 CONDR)	LF	\$1
684 2031	TRF SIG CBL (TY A) (14 AWG) ( 5 CONDR)	LF	\$2
687 2001	PED POLE ASSEMBLY	EA	\$1,500
8835 2001	ACCESSIBLE PEDESTRIAN SIGNAL UNITS	EA	\$2,300
****	EACH SIGNAL WITH NEW PED EQUIPMENT	EA	\$6,000
****	SIGNALIZED PED CROSSING (ADA COMPLIANT)	EA	\$10,000
****	UNSIGNALIZED PED CROSSING (STRIPING) (ASSUMED 48' CROSSING)	EA	\$2,500
	<b>ESCALATIONS:</b>		
	UTILITIES	10%	
	EROSION CONTROLS	20%	
	DRAINAGE	6%	
	MOBILIZATION	10%	
	CONTINGENCY	25%	
	PRECONSTRUCTION AND DESIGN	20%	
	CONSTRUCTION ADMINISTRATION	2%	

# Preliminary Option of Probable Costs

## Citywide Cost Estimates

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>NEW SIDEWALK</b>					
529 2004	CONC CURB & GUTTER (TY II)	LF	2,030,010	\$15	\$30,450,150
531 ****	CONC SIDEWALKS (6')	LF OF 6' SIDEWALK	2,030,010	\$40	\$81,200,400
<b>MATERIALS SUBTOTAL</b>					\$111,650,550
UTILITIES (10%)					\$11,165,055
EROSION CONTROLS (20%)					\$22,330,110
DRAINAGE (6%)					\$6,699,033
MOBILIZATION (10%)					\$11,165,055
<b>MATERIALS</b>					\$163,009,803
<b>CONTINGENCY (25%)</b>					\$40,752,451
<b>PRECONSTRUCTION AND DESIGN (20%)</b>					\$32,601,961
<b>CONSTRUCTION ADMINISTRATION (2%)</b>					\$3,260,196
<b>TOTAL</b>					\$239,624,410
<b>NEW CURB RAMPS</b>					
531 ****	CURB RAMPS	EA	5,724	\$1,700	\$9,730,800
<b>MATERIALS SUBTOTAL</b>					\$9,730,800
UTILITIES (10%)					\$973,080
EROSION CONTROLS (20%)					\$1,946,160
DRAINAGE (6%)					\$583,848
MOBILIZATION (10%)					\$973,080
<b>MATERIALS</b>					\$14,206,968
<b>CONTINGENCY (25%)</b>					\$3,551,742
<b>PRECONSTRUCTION AND DESIGN (20%)</b>					\$2,841,394
<b>CONSTRUCTION ADMINISTRATION (2%)</b>					\$284,139
<b>TOTAL</b>					\$20,884,243
<b>FAILING SIDEWALK REPAIRS</b>					
104 2015	REMOVING CONC (SIDEWALKS)	LF	13,473	\$8	\$107,784
531 ****	CONC SIDEWALKS (6')	LF OF 6' SIDEWALK	13,473	\$40	\$538,920
<b>MATERIALS SUBTOTAL</b>					\$646,704
UTILITIES (10%)					\$64,670
EROSION CONTROLS (20%)					\$129,341
DRAINAGE (6%)					\$38,802
MOBILIZATION (10%)					\$64,670
<b>MATERIALS</b>					\$944,188
<b>CONTINGENCY (25%)</b>					\$236,047
<b>PRECONSTRUCTION AND DESIGN (20%)</b>					\$188,838
<b>CONSTRUCTION ADMINISTRATION (2%)</b>					\$18,884
<b>TOTAL</b>					\$1,387,956



## Preliminary Option of Probable Costs

# Citywide Cost Estimates

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
<b>LIMITED FAILURE SIDEWALK REPAIRS</b>					
104 2015	REMOVING CONC (SIDEWALKS)	LF	4,166	\$8	\$33,328
531 ****	CONC SIDEWALKS (6")	LF OF 6' SIDEWALK	4,166	\$40	\$166,640
<b>MATERIALS SUBTOTAL</b>					\$199,968
UTILITIES (10%)					\$19,997
EROSION CONTROLS (20%)					\$39,994
DRAINAGE (6%)					\$11,998
MOBILIZATION (10%)					\$19,997
<b>MATERIALS</b>					\$291,953
<b>CONTINGENCY (25%)</b>					\$72,988
<b>PRECONSTRUCTION AND DESIGN (20%)</b>					\$58,391
<b>CONSTRUCTION ADMINISTRATION (2%)</b>					\$5,839
<b>TOTAL</b>					\$429,171
<b>NON-FUNCTIONAL RAMP REPAIRS</b>					
104 2032	REMOVING CONC (WHEELCHAIR RAMP)	RAMP	457	\$400	\$182,800
531 ****	CURB RAMPS	EA	457	\$1,700	\$776,900
<b>MATERIALS SUBTOTAL</b>					\$959,700
UTILITIES (10%)					\$95,970
EROSION CONTROLS (20%)					\$191,940
DRAINAGE (6%)					\$57,582
MOBILIZATION (10%)					\$95,970
<b>MATERIALS</b>					\$1,401,162
<b>CONTINGENCY (25%)</b>					\$350,291
<b>PRECONSTRUCTION AND DESIGN (20%)</b>					\$280,232
<b>CONSTRUCTION ADMINISTRATION (2%)</b>					\$28,023
<b>TOTAL</b>					\$2,059,708
<b>FUNCTIONAL RAMP REPAIRS</b>					
104 2032	REMOVING CONC (WHEELCHAIR RAMP)	RAMP	1,063	\$400	\$425,200
531 ****	CURB RAMPS	EA	1,063	\$1,700	\$1,807,100
<b>MATERIALS SUBTOTAL</b>					\$2,232,300
UTILITIES (10%)					\$223,230
EROSION CONTROLS (20%)					\$446,460
DRAINAGE (6%)					\$133,938
MOBILIZATION (10%)					\$223,230
<b>MATERIALS</b>					\$3,259,158
<b>CONTINGENCY (25%)</b>					\$814,790
<b>PRECONSTRUCTION AND DESIGN (20%)</b>					\$651,832
<b>CONSTRUCTION ADMINISTRATION (2%)</b>					\$65,183
<b>TOTAL</b>					\$4,790,962

# Preliminary Option of Probable Costs

## Citywide Cost Estimates

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
	<b>PEDESTRIAN SIGNAL UPGRADES</b>				
****	EACH SIGNAL WITH NEW PED EQUIPMENT	EA SIGNAL	17	\$6,000	\$102,000
****	SIGNALIZED PED CROSSING (ADA COMPLIANT)	EA CROSSING	54	\$10,000	\$540,000
				<b>MATERIALS SUBTOTAL</b>	<b>\$642,000</b>
	UTILITIES (10%)				\$64,200
	MOBILIZATION (10%)				\$64,200
				<b>MATERIALS</b>	<b>\$770,400</b>
				<b>CONTINGENCY (25%)</b>	<b>\$192,600</b>
				<b>PRECONSTRUCTION AND DESIGN (20%)</b>	<b>\$154,080</b>
				<b>CONSTRUCTION ADMINISTRATION (2%)</b>	<b>\$15,408</b>
				<b>TOTAL</b>	<b>\$1,132,488</b>

## Preliminary Option of Probable Costs

# Downtown Overlay District - New Facilities

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
	<b>NEW SIDEWALK</b>				
529 2004	CONC CURB & GUTTER (TY II)	LF	12,122	\$15	\$181,830
531 ****	CONC SIDEWALKS (6")	LF OF 6' SIDEWALK	12,122	\$40	\$484,880
				<b>MATERIALS SUBTOTAL</b>	\$666,710
	UTILITIES (10%)				\$66,671
	EROSION CONTROLS (20%)				\$133,342
	DRAINAGE (6%)				\$40,003
	MOBILIZATION (10%)				\$66,671
				<b>MATERIALS</b>	\$973,397
				<b>CONTINGENCY (25%)</b>	\$243,349
				<b>PRECONSTRUCTION AND DESIGN (20%)</b>	\$194,679
				<b>CONSTRUCTION ADMINISTRATION (2%)</b>	\$19,468
				<b>TOTAL</b>	\$1,430,893
	<b>NEW CURB RAMPS</b>				
531 ****	CURB RAMPS	EA	126	\$1,700	\$214,200
				<b>MATERIALS SUBTOTAL</b>	\$214,200
	UTILITIES (10%)				\$21,420
	EROSION CONTROLS (20%)				\$42,840
	DRAINAGE (6%)				\$12,852
	MOBILIZATION (10%)				\$21,420
				<b>MATERIALS</b>	\$312,732
				<b>CONTINGENCY (25%)</b>	\$78,183
				<b>PRECONSTRUCTION AND DESIGN (20%)</b>	\$62,546
				<b>CONSTRUCTION ADMINISTRATION (2%)</b>	\$6,255
				<b>TOTAL</b>	\$459,716

# Preliminary Option of Probable Costs

## Downtown Overlay District - Repairs

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
	REMOVE SIDEWALK	633	SY	\$12.00	\$7,596
	NEW CONCRETE SIDEWALK	3,987	LF	\$40.00	\$159,480
	NEW CONCRETE SIDEWALK WITH PAVERS	1,709	LF	\$48.00	\$82,032
	REMOVE CURB RAMPS	174	EA	\$400.00	\$69,600
	NEW CURB RAMP	174	EA	\$1,700.00	\$295,800
	CROSSWALK	17	EA	\$10,000.00	\$170,000
	PROTRUDING OBJECT	174	EA	\$200.00	\$34,800
	PEDESTRIAN PUSH BUTTON (LANDING)	8	EA	\$750.00	\$6,000
	DOOR HEIGHT DIFFERENCE	1,375	LF	\$35.00	\$48,125
	RAMP (WITH METAL HANDRAIL)	245	LF	\$45.00	\$11,025
	REMOVE DRIVEWAY	26,800	SF	\$2.00	\$53,600
	NEW CONCRETE DRIVEWAY	26,800	SF	\$9.00	\$241,200
				<b>MATERIALS</b>	<b>\$1,179,258</b>
				<b>CONTINGENCY (25%)</b>	<b>\$294,815</b>
				<b>PRECONSTRUCTION AND DESIGN (20%)</b>	<b>\$235,852</b>
				<b>CONSTRUCTION ADMINISTRATION (2%)</b>	<b>\$23,585</b>
				<b>TOTAL</b>	<b>\$1,733,509</b>

## Preliminary Option of Probable Costs

# Pedestrian Signals

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
	<b>PEDESTRIAN SIGNAL UPGRADES</b>				
****	EACH SIGNAL WITH NEW PED EQUIPMENT	EA SIGNAL	17	\$6,000	\$102,000
****	SIGNALIZED PED CROSSING (ADA COMPLIANT)	EA CROSSING	30	\$10,000	\$300,000
				<b>MATERIALS SUBTOTAL</b>	\$402,000
	UTILITIES (10%)				\$40,200
	MOBILIZATION (10%)				\$40,200
				<b>MATERIALS</b>	\$482,400
				<b>CONTINGENCY (25%)</b>	\$120,600
				<b>PRECONSTRUCTION AND DESIGN (20%)</b>	\$96,480
				<b>CONSTRUCTION ADMINISTRATION (2%)</b>	\$9,648
				<b>TOTAL</b>	\$709,128

## Preliminary Option of Probable Costs Government Facilities

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
	PARKING SPACE		32	\$2,400.00	\$76,800
	RAMP (WITH METAL HANDRAIL)		8	\$1,200.00	\$9,600
	CURB/SIDEWALK SLOPE		32	\$1,200.00	\$38,400
	PROTRUDING OBJECT		100	\$65.00	\$6,500
				MATERIALS	\$131,300
				CONTINGENCY (25%)	\$32,825
				PRECONSTRUCTION AND DESIGN (20%)	\$26,260
				CONSTRUCTION ADMINISTRATION (2%)	\$2,626
				TOTAL	\$193,011

## Preliminary Option of Probable Costs Summary

NEW SIDEWALK	##### LF	\$239,624,410
NEW CURB RAMPS	5,724 EA	\$20,884,243
FAILING SIDEWALK REPAIRS	13,473 LF	\$1,387,956
LIMITED FAILURE SIDEWALK REPAIRS	4,166 LF	\$429,171
NON-FUNCTIONAL RAMP REPAIRS	457 EA	\$2,059,708
FUNCTIONAL RAMP REPAIRS	1,063 EA	\$4,790,962
PEDESTRIAN SIGNAL UPGRADES	54 EA CROSSING	\$1,132,488
	<b>TOTAL</b>	<b>\$270,308,939</b>

Assumptions used in preparation of estimate:

1. TxDOT 12 Month Austin District Average Low Bid Unit Prices and recent City of Georgetown Bid Tabs used for cost estimates.
2. Utility, Erosion, Drainage, and Mobilization costs estimated as percentage of total.
3. ROW acquisition not included
4. Assumes Accessible Pedestrian Signal upgrades to all City maintained signals.
5. Does not include Downtown District.
6. Assumed 6' sidewalk widths.

PRIORITY 1 BREAKDOWN		
DOWNTOWN ADA REPAIRS		\$1,733,509
DOWNTOWN NEW SIDEWALK		\$1,430,893
DOWNTOWN NEW CURB RAMPS		\$459,716
PHASE 1 PEDESTRIAN SIGNAL UPGRADES		\$709,128
ACCESSIBLE ROUTES TO GOVERNMENT FACILITIES		\$193,011
PHASE 1 RAMP UPGRADES AT PEDESTRIAN SIGNALS		\$150,361
OLD TOWN NORTHEAST		\$1,177,645
SH29 CENTRAL		\$2,069,483
2ND STREET		\$410,051
AUSTIN AVENUE SOUTH		\$365,284
OLD TOWN SOUTHEAST		\$1,466,956
	<b>TOTAL</b>	<b>\$10,166,037</b>

# Preliminary Option of Probable Costs Summary

PRIORITY 2 BREAKDOWN		
OLD TOWN SOUTHWEST		\$1,813,793
AUSTIN AVENUE NORTH		\$231,979
SHELL ROAD		\$1,950,883
LAKEWAY AND WILLIAMS		\$2,126,661
LEANDER ROAD		\$922,870
IH 35 SBFR		\$525,997
	<i>TOTAL</i>	\$7,572,184

PRIORITY 3 BREAKDOWN		
PRIORITY 3 PROJECTS	<i>TOTAL</i>	\$7,768,016



# Priority Projects

PROJECT	NAME	NEW SIDEWALK		FAILING SIDEWALK		LIMITED FAILURE SIDEWALK REPAIR		NEW RAMPS		FAILING RAMP REPAIR		LIMITED FAILURE RAMP REPAIR		NEW RAMPS		TOTAL \$	PRIORITY 1	PRIORITY 2
		LENGTH	\$	LENGTH	\$	LENGTH	\$	EA	\$	EA	\$	EA	\$	EA	\$			
1	OLD TOWN NORTHEAST	6,742	795,793	70	7,211	345	35,541	66	240,804	21	94,647	10	0	1	3,649	1,177,645	1	
2	SH29 CENTRAL	14,238	1,680,634	1,270	130,832	90	9,272	44	160,536	11	49,577	15	38,632	0	0	2,069,483	1	
3	2ND STREET	3,127	369,058	0	0	0	0	10	36,485	1	4,507	0	0	0	0	410,051	1	
4	AUSTIN AVENUE SOUTH	2,530	298,666	0	0	80	8,241	16	58,377	0	0	0	0	0	0	365,284	1	
5	OLD TOWN SOUTHEAST	9,804	1,157,217	25	2,575	465	47,903	42	153,239	15	67,605	5	12,877	6	25,540	1,466,956	1	
6	OLD TOWN SOUTHWEST	11,861	1,400,040	123	12,671	10	1,030	66	240,804	24	108,168	17	43,782	2	7,297	1,813,793	1	
7	AUSTIN AVENUE NORTH	1,222	144,243	0	0	60	6,181	10	36,485	10	45,070	0	0	0	0	231,979	2	
8	SHELL ROAD	15,365	1,813,741	0	0	25	2,575	30	109,456	5	22,535	1	2,575	0	0	1,950,883	2	
9	LAKEWAY AND WILLIAMS	13,391	1,800,736	450	46,358	141	14,525	62	226,209	27	121,690	49	126,197	2	10,946	2,126,661	2	
10	LEANDER ROAD	6,156	726,622	0	0	80	8,241	30	109,456	4	18,028	13	33,481	6	27,042	922,870	2	
11	IH 35 SBFR	4,271	504,105	0	0	0	0	6	21,891	0	0	0	0	0	0	525,997	2	

CITY OF GEORGETOWN SIDEWALK MASTER PLAN AND PUBLIC FACILITY ACCESS AUDIT  
PRIORITY 3 PROJECTS

PROJECT	NAME	NEW SIDEWALK		FAILING SIDEWALK		LIMITED FAILURE SIDEWALK REPAIR		NEW RAMPS		FAILING RAMP REPAIR		LIMITED FAILURE RAMP REPAIR		NEW RAMPS		TOTAL \$
		LENGTH	\$	LENGTH	\$	LENGTH	\$	EA	\$	EA	\$	EA	\$	EA	\$	
N/A	PRIORITY 3 PROJECTS	58,000	6,846,351	700	72,112	55	5,666	196	715,114	16	72,112	22	56,660	0	0	7,768,016

# Preliminary Option of Probable Costs

## Annual Maintenance

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
	<b>TOTAL REQUIRED:</b>				
	SIDEWALK REPAIR	LF	17,639		
	NON FUNCTIONAL CURB RAMP REPAIR	EA	457		
	NON FUNCTIONAL CURB RAMP REPAIR	EA	646		
	<b>PRIORITY 1:</b>				
	SIDEWALK REPAIR	LF	2,345		
	NON FUNCTIONAL CURB RAMP REPAIR	EA	50		
		EA	22		
	<b>Signal Ramps:</b>				
		EA	6		
		EA	3		
	<b>REMAINING:</b>				
	SIDEWALK REPAIR	LF	15,294		
	NON FUNCTIONAL CURB RAMP REPAIR	EA	401		
	NON FUNCTIONAL CURB RAMP REPAIR	EA	621		
	<b>ANNUAL:</b>				
	NEW SIDEWALK	LF	\$55		\$0
	SIDEWALK REPAIR	LF	\$48	\$300	\$14,400
	NEW CURB RAMP	EA	\$1,700		\$0
	NON FUNCTIONAL CURB RAMP REPAIR	EA	\$2,100	\$8	\$16,800
	DETECTABLE WARNING SURFACE REPAIR	EA	\$1,200	\$12	\$14,400
	CROSSWALKS	EA	\$2,500		\$0
				Materials Subtotal	\$45,600
	UTILITIES (10%)				\$4,560
	EROSION CONTROLS (20%)				\$9,120
	DRAINAGE (6%)				\$2,736
	MOBILIZATION (10%)				\$4,560
				<b>MATERIALS</b>	\$66,576
				<b>CONTINGENCY (25%)</b>	\$16,644
				<b>PRECONSTRUCTION AND DESIGN (20%)</b>	\$13,315
				<b>CONSTRUCTION ADMINISTRATION (2%)</b>	\$1,332
				<b>TOTAL</b>	\$97,867
				<b>TOTAL PER YEAR</b>	\$489,333.60
				<b>5 PROJECTS PER YEAR</b>	

## Preliminary Option of Probable Costs

# Program Replacement

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
	NEW SIDEWALK	LF		\$55	0
	SIDEWALK REPAIR	LF	68,844	\$48	3,304,493
	NEW CURB RAMP	EA		\$1,700	0
	NON FUNCTIONAL CURB RAMP REPAIR	EA	209	\$2,100	438,013
	DETECTABLE WARNING SURFACE REPAIR	EA		\$1,200	0
	CROSSWALKS	EA		\$2,500	0
				Materials Subtotal	3,742,506
	UTILITIES (10%)				374,251
	EROSION CONTROLS (20%)				748,501
	DRAINAGE (6%)				224,550
	MOBILIZATION (10%)				374,251
				<b>MATERIALS</b>	5,464,059
				<b>CONTINGENCY (25%)</b>	1,366,015
				<b>PRECONSTRUCTION AND DESIGN (20%)</b>	1,092,812
				<b>CONSTRUCTION ADMINISTRATION (2%)</b>	109,281
				<b>TOTAL</b>	8,032,166
				<b>TOTAL PER YEAR</b>	803,217

## Preliminary Option of Probable Costs

# Program Replacement

Year	Sidewalks Inventory (miles)	Sidewalk Repair Annually (miles)	Ramp Inventory (each)	Ramp Repair Annually (each)
1965	42	1.04	685	11.26
1966	43	1.07	702	17.56
1967	44	1.10	720	18.01
1968	45	1.12	739	18.47
1969	46	1.15	758	18.95
1970	47	1.18	777	19.43
1971	48	1.21	797	19.93
1972	50	1.24	818	20.44
1973	51	1.27	839	20.97
1974	52	1.31	860	21.50
1975	54	1.34	882	22.05
1976	55	1.38	905	22.62
1977	56	1.41	928	23.20
1978	58	1.45	952	23.80
1979	59	1.48	976	24.41
1980	61	1.52	1001	25.03
1981	62	1.56	1027	25.67
1982	64	1.60	1053	26.33
1983	66	1.64	1080	27.01
1984	67	1.68	1108	27.70
1985	69	1.73	1136	28.41
1986	71	1.77	1165	29.14
1987	73	1.82	1195	29.88
1988	75	1.86	1226	30.65
1989	76	1.91	1257	31.44
1990	78	1.96	1290	32.24
1991	80	2.01	1323	33.07
1992	83	2.06	1357	33.92
1993	85	2.12	1391	34.79
1994	87	2.17	1427	35.68
1995	89	2.23	1464	36.59
1996	91	2.28	1501	37.53
1997	94	2.34	1540	38.49
1998	96	2.40	1579	39.48
1999	98	2.46	1620	40.49
2000	101	2.53	1661	41.53
2001	104	2.59	1704	42.60
2002	106	2.66	1748	43.69
2003	109	2.72	1792	44.81
2004	112	2.79	1838	45.96
2005	115	2.87	1885	47.14
2006	118	2.94	1934	48.35
2007	121	3.02	1983	49.59
2008	124	3.09	2034	50.86
2009	127	3.17	2086	52.16

## Preliminary Option of Probable Costs

# Program Replacement

Year	Sidewalks Inventory (miles)	Sidewalk Repair Annually (miles)	Ramp Inventory (each)	Ramp Repair Annually (each)
2010	130	3.25	2140	53.50
2011	133	3.34	2195	54.87
2012	137	3.42	2251	56.28
2013	140	3.51	2309	57.72
2014	144	3.60	2368	59.20
2015	148	3.69	2429	60.72
2016	151	3.79	2491	62.27
2017	155	3.88	2555	63.87
2018	159	3.98	2620	65.51
2019	163	4.09	2688	67.19
2020	168	4.19	2756	68.91
2021	172	4.30	2827	70.68
2022	176	4.41	2900	72.49
2023	181	4.52	2974	74.35
2024	185	4.64	3050	76.26
Assuming 50 year life-cycle				
2025-2035	10-year total	13.04	10-year total	208.58
	10-year average	1.19	10-year average	18.96