

TEXAS MEDICAL CENTER MOBILITY STUDY
Bicycle, Pedestrian, and Shared-Use Infrastructure Projects (DRAFT)

#	Project	Project Type	Campus/Area	Project Detail	Cost Est.	Prt	Goals/Benefits
1	S Mac Gregor Way Along bayou, west of Cambridge	Shared-use path gap closure	Primary Study Area	<ul style="list-style-type: none"> • Approx. 462 linear feet • 10 ft. width 	\$71,818	1	<ul style="list-style-type: none"> • Connects trail from west to Cambridge & MacGregor intersection, Cambridge bike route
2	Brays Bayou North side, west of Cambridge	Shared-use path gap closure	Primary Study Area	<ul style="list-style-type: none"> • Approx. 100 linear feet • 10 ft. width 	\$15,965	1	<ul style="list-style-type: none"> • Connects ramp from Cambridge underpass to upper trail to west • Closes critical gap in trail • Eliminates dirt/mud riding
3	S Mac Gregor Way Along bayou, east of Cambridge	Shared-use path gap closure	Primary Study Area	<ul style="list-style-type: none"> • Approx. 475 linear feet • 10 ft. width 	\$73,486	1	<ul style="list-style-type: none"> • Connects trail from east to Cambridge & MacGregor intersection, Cambridge bike route
4	Brays Bayou North side, east of Cambridge	Shared-use path gap closure	Primary Study Area	<ul style="list-style-type: none"> • Approx. 90 linear feet • 10 ft. width 	\$14,681	1	<ul style="list-style-type: none"> • Connects ramp from Cambridge underpass to upper trail to east • Eliminates dirt/mud riding
5	Brays Bayou North side, under Alameda	Shared-use path gap closure	Primary Study Area	<ul style="list-style-type: none"> • Approx. 334 linear feet • 10 ft. width 	\$52,259	1	<ul style="list-style-type: none"> • Closes critical gap in trail • Eliminates dirt/mud riding
6	Cambridge East side, N MacGregor to Hermann Park Jogging Trail	Sidewalk gap closure	Primary Study Area	<ul style="list-style-type: none"> • Approx. 260 linear feet • 8 ft. width • 2 curb ramps 	\$19,073	1	<ul style="list-style-type: none"> • Closes critical gap in pedestrian network • Creates accessible route between Cambridge/bayou and TMC
7	N MacGregor North side, Alameda to Hermann Park Jogging Trail	Sidewalk gap closure	Primary Study Area	<ul style="list-style-type: none"> • Approx. 510 linear feet • 8 ft. width • 4 curb ramps 	\$37,536	1	<ul style="list-style-type: none"> • Closes critical gap in pedestrian network • Creates accessible route between Alameda and Hermann Park
8	Alameda East side, Holly Hall to 7205 Alameda	New and replacement sidewalk	Primary Study Area	<ul style="list-style-type: none"> • Approx. 3,155 ft. new sidewalk • Approx. 315 ft. replaced sidewalk • 6 ft width, 10 curb ramps 	\$176,474	1	<ul style="list-style-type: none"> • Adds sidewalk where missing along thoroughfare and transit route
9	Bertner East side, OST to 7007 Bertner	New sidewalk	Mid Campus	<ul style="list-style-type: none"> • Approx. 1,212 ft. new sidewalk • 6 ft. width • 2 curb ramps 	\$58,538	1	<ul style="list-style-type: none"> • Adds sidewalk where missing along major collector and important campus link
10	Fannin West side, Sunset to Cambridge	New shared-use path	Primary Study Area	<ul style="list-style-type: none"> • Approx. 1,985 ft. new sidewalk • 10 ft. width • 1 curb ramp 	\$154,602	1	<ul style="list-style-type: none"> • Provides paved, off-street connection between Sunset bike route to TMC Main Campus • Replaces cinder path included in current Hermann Park plan
11	Greenbriar East side, Rice to Bolsover	New sidewalk	Primary Study Area	<ul style="list-style-type: none"> • Approx. 305 ft. new sidewalk • 6 ft. width • 2 curb ramps 	\$17,236	1	<ul style="list-style-type: none"> • Adds sidewalk where missing along major thoroughfare
12	Alameda West side, Holcombe to Holly Hall	Replace sidewalk with shared-use path	Mid Campus, Primary Study Area	<ul style="list-style-type: none"> • 10 ft. width 	\$652,756	2	<ul style="list-style-type: none"> • Replaces sidewalk in fair to poor condition • Connects existing Alameda and Holly Hall shared-use paths • Provides bicycle access where roadway is not suitable
13	Holcombe North side, Alameda to Grand	Sidewalk replacement	Mid Campus	<ul style="list-style-type: none"> • Approx. 1,295 ft. sidewalk replaced • 6 ft. width, 2 curb ramps replaced 	\$50,405	2	<ul style="list-style-type: none"> • Replaces sidewalk in poor condition • May require relocation of streetlights at additional cost
14	Holcombe South side, Ringness to Alameda	Sidewalk spot replacement	Mid Campus	<ul style="list-style-type: none"> • Approx. 15 ft. sidewalk replaced • 4 ft. existing width 	\$3,871	2	<ul style="list-style-type: none"> • Replaces sidewalk segment in poor condition • Restores accessibility in proximity to transit stops
15	Holcombe North side, near Main and Fannin	Sidewalk spot replacement	Main Campus	<ul style="list-style-type: none"> • Two 50-ft. sections replaced • 6 ft. existing width 	\$5,453	2	<ul style="list-style-type: none"> • Low section prone to pooling water just west of Fannin • Uneven section with excessive cross slope just west of
16	Greenbriar Both sides, Main to S Braeswood	Sidewalk spot replacement	Primary Study Area	<ul style="list-style-type: none"> • One missing section (north side) • Two uneven sections (south side) • 100 linear ft., 4 ft. existing width 	\$4,898	2	<ul style="list-style-type: none"> • Restores accessibility along major thoroughfare

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17	S Braeswood North side, Fannin to Phoenix	Sidewalk replacement	Primary Study Area	<ul style="list-style-type: none"> • Approx. 505 linear ft. replaced • 6 ft. width 	\$26,037	2	<ul style="list-style-type: none"> • Replaces sidewalk in poor condition • Brings sidewalk up to transit corridor standard
18	S Braeswood South side, Fannin to Phoenix	Sidewalk gap closure	Primary Study Area	<ul style="list-style-type: none"> • Approx. 110 linear ft. added • 4 ft. existing width 	\$6,648	2	<ul style="list-style-type: none"> • Closes gaps in sidewalk along transit corridor
19	S Braeswood South side, Fannin to Bertner	Sidewalk replacement	Primary Study Area	<ul style="list-style-type: none"> • Approx. 825 linear ft. replaced • 6 ft. width • 2 curb ramps replaced 	\$45,861	2	<ul style="list-style-type: none"> • Replaces sidewalk in poor condition along major thoroughfare
20	Cambridge West side, El Paseo to Holly Hall	Sidewalk replacement	South Campus	<ul style="list-style-type: none"> • Approx. 1,300 linear ft. replaced • 6 ft. width • 2 curb ramps replaced 	\$68,805	2	<ul style="list-style-type: none"> • Replaces sidewalk in poor condition along major collector
21	Fannin East side, Greenbriar to Knight	Sidewalk replacement	Primary Study Area	<ul style="list-style-type: none"> • Approx. 1,200 linear ft. replaced • 6 ft. width • 2 curb ramps replaced 	\$64,422	2	<ul style="list-style-type: none"> • Replaces sidewalk in poor condition along major thoroughfare
22	University South side, Travis to Lanier	Sidewalk replacement	Primary Study Area	<ul style="list-style-type: none"> • Approx. 650 linear ft. replaced • 6 ft. width • 2 curb ramps replaced 	\$36,580	2	<ul style="list-style-type: none"> • Replaces sidewalk in poor condition along major collector
23	Rice North side between Cherokee & Ashby	Sidewalk spot replacement	Primary Study Area	<ul style="list-style-type: none"> • Approx. 165 linear ft. replaced • 4 ft. existing width • 1 curb ramp replaced 	\$7,661	2	<ul style="list-style-type: none"> • Replaces sidewalk in poor condition along major collector • Tree root encroachment may require alternative treatment to concrete
24	Brays Bayou North side between Fannin & Bertner	Shared-use path connection	Primary Study Area	<ul style="list-style-type: none"> • Approx. 920 linear ft. • 10 ft. width 	\$139,992	2	<ul style="list-style-type: none"> • Allows connections from lower trail to east side of Fannin, west side of Bertner
25	Brays Bayou North side between Holcombe & Cambridge	Shared-use path connection	Primary Study Area	<ul style="list-style-type: none"> • Approx. 700 ft. added • 10 ft. width • Includes bike/ped bridge 	\$400,000	2	<ul style="list-style-type: none"> • Allows continuous travel on the lower trail through the TMC
26	Brays Bayou South side, under Alameda	Shared-use path connection	Primary Study Area	<ul style="list-style-type: none"> • Approx. 700 linear feet • 10 ft. width 	\$105,495	2	<ul style="list-style-type: none"> • Connects dead-ends of existing trail • Avoids crossing two busy streets along south side trail
27	Fannin East side, bayou to TMC TC stair tower	Shared-use path connection	Primary Study Area	<ul style="list-style-type: none"> • Approx. 640 linear feet • Add 4 ft. for 10 ft. total width 	\$19,490	3	<ul style="list-style-type: none"> • Connects Brays Bayou trail to TMC Transit Center
28	N Braeswood North side, bayou to Main	Shared-use path connection	General Study Area	<ul style="list-style-type: none"> • Approx. 250 linear feet • 10 ft. width 	\$22,062	3	<ul style="list-style-type: none"> • Allows connection from Morningside bike route to bayou trails with only one street crossing
29	Bates MD Anderson to MacGregor & Moursund	Shared-use path connection	Main Campus	<ul style="list-style-type: none"> • Approx. 630 linear feet • Replace sidewalk with 10 ft. path 	\$108,784	3	<ul style="list-style-type: none"> • Connection between parking garages allows traffic-separated connection from Bayou trails to Bates
30	Wyndale Both sides, Staffordshire to Cambridge	Sidewalk replacement/addition	Mid Campus	<ul style="list-style-type: none"> • Approx. 1300 linear feet, 6 ft. width • Street under construction; subject to change 	\$68,805	3	<ul style="list-style-type: none"> • Provides access from residential area to major thoroughfare with bus stops
31	Swanson Both sides, Fannin to Bertner	Sidewalk addition	Mid Campus	<ul style="list-style-type: none"> • Approx. 1300 linear feet, 6 ft. width 	\$58,538	3	<ul style="list-style-type: none"> • Provides access from developed area to major thoroughfare with bus stops
32	Hepburn Both sides, Cambridge to Alameda	Sidewalk replacement/addition	Primary Study Area	<ul style="list-style-type: none"> • Approx. 1050 linear feet, 6 ft. width 	\$46,508	3	<ul style="list-style-type: none"> • Provides access from residential area to major thoroughfare with bus stops
33	Braeswood East side, Wyndale to Pressler	Shared-use path and bridge	Main Campus Mid Campus	<ul style="list-style-type: none"> • Approx. 450 ft. incl. 300 ft bridge • 10 ft. width 	\$700,000	3	<ul style="list-style-type: none"> • Provides alternative to inadequate sidewalks on Braeswood bridge along major bike/ped route

TEXAS MEDICAL CENTER MOBILITY STUDY
Intersection Accessibility Improvement Projects (DRAFT)

#	Project	Project Type	Campus/Area	Project Detail	Cost Est.	Priority	Goals/Benefits
1	Holcombe at Fannin South side	Curb ramp addition	Main Campus	<ul style="list-style-type: none"> add 2 missing curb ramps between travel lanes of Fannin Design challenges due to location on bridge structure 	\$6,000	1	<ul style="list-style-type: none"> Makes south side of Holcombe an accessible route
2	Fannin at Old Main West side	Curb ramp addition	Main Campus	<ul style="list-style-type: none"> add 2 missing curb ramps 	\$3,000	1	<ul style="list-style-type: none"> Makes west side of Fannin an accessible route
3	Holcombe at Main South side	Curb ramp addition	Main Campus	<ul style="list-style-type: none"> add 2 missing curb ramps between travel lanes of Main Design challenges due to location on bridge structure 	\$6,000	1	<ul style="list-style-type: none"> Makes south side of Holcombe an accessible route
4	Cambridge at MacGregor Northwest corner	Curb ramp addition	Primary Study Area	<ul style="list-style-type: none"> add 2 missing curb ramps across right turn lane 	\$3,000	1	<ul style="list-style-type: none"> Makes west side of Cambridge an accessible route Northeast corner included in Infrastructure project 6
5	Dryden at Travis West side	Curb ramp addition, stripe crosswalks	Primary Study Area	<ul style="list-style-type: none"> add curb ramps to 2 corners where missing 	\$3,000	1	<ul style="list-style-type: none"> Makes Dryden an accessible route Two blocks from rail station, one block from bus stops
6	Dryden at Lanier Four corners	Curb ramp addition, stripe crosswalks	Primary Study Area	<ul style="list-style-type: none"> add curb ramps to 4 corners where missing 	\$6,000	1	<ul style="list-style-type: none"> Makes Dryden an accessible route Three blocks from rail station, two blocks from bus stops
7	Greenbriar at Sunset Four corners	Curb ramp modifications	Primary Study Area	<ul style="list-style-type: none"> modify curb ramps for safety 	\$6,000	1	<ul style="list-style-type: none"> Fixes ramps that could force users into traffic
8	Holcombe at Ringness West Side	New curb ramps, crosswalk	Primary Study Area	<ul style="list-style-type: none"> add 4 curb ramps to allow crossing of west side of intersection stripe crosswalk redesign of intersection, potentially in the form of a roundabout 	\$3,000	1	<ul style="list-style-type: none"> Allows use of wide median as safe refuse so mobility-impaired users may cross in two phases
9	Fannin at Knight	Additional study required	South Campus	<ul style="list-style-type: none"> redesign of intersection, potentially in the form of a roundabout 	TBD	1	<ul style="list-style-type: none"> Seven tenths of a mile between safe crossing locations of Fannin
10	Fannin at Greenbriar	Additional study required	Primary Study Area	<ul style="list-style-type: none"> redesign of intersection, potentially in the form of a roundabout 	TBD	1	<ul style="list-style-type: none"> Seven tenths of a mile between safe crossing locations of Fannin Located along Transit Corridor

TEXAS MEDICAL CENTER MOBILITY STUDY
On-Street Bike Facilities (DRAFT)

#	Project	Project Type	Campus/Area	Project Detail	Cost Est.	Priority	Goals/Benefits
1	East-Bertner-Moursund Cambridge to MacGregor	Shared lane	Mid Campus Main Campus	<ul style="list-style-type: none"> • 1.8 mile route • Signs and pavement markings 	\$34,150	1	• Provides direct bike connection from residential areas and Mid Campus to Main Campus
2	Knight-West-Bertner Holly Hall to East	Shared lane	Mid Campus Primary Study Area	<ul style="list-style-type: none"> • 0.8 mile route • Signs and pavement markings 	\$12,857	1	• Connects UT housing, residential areas to Bertner route to Main Campus
3	Kent-Alumni-path-Freeman-Bertner Sunset to Moursund	Signed bike route	Primary Study Area Rice University Campus Main Campus	<ul style="list-style-type: none"> • 1.1 mile route • Signs 	\$5,046	1	• Connects Sunset bike route, Rice to Main Campus
4	McClendon-Travis Morningside to Dryden	Signed bike route	Primary Study Area	<ul style="list-style-type: none"> • 0.8 mile route • Signs and traffic control modifications 	\$3,924	1	• Connects Morningside bike lanes to Main Campus
5	Stockton University to McClendon	Signed bike route	Primary Study Area Rice University Campus	<ul style="list-style-type: none"> • 0.4 mile route • Signs 	\$1,682	2	• Connects Rice Campus to proposed McClendon bike route
6	N Stadium - S Braeswood Reliant Park to bayou	Signed bike route	Primary Study Area	<ul style="list-style-type: none"> • 0.9 mile route • Signs and intersection modifications 	\$3,364	2	• Connects bayou trails to Reliant Park

TEXAS MEDICAL CENTER MOBILITY STUDY
Skywalks (DRAFT)

#	Project	Project Type	Campus/Area	Project Detail	Cost Estimate*	Priority	Goals/Benefits
1	Braeswood Garage To MD Anderson skybridge	New skybridge	Main Campus	<ul style="list-style-type: none"> • Connect garage to MA Anderson skybridge network at Rotary House • Approx. 520 linear ft. • May be open air or climate controlled (additional cost) 	\$3,000,000	1	<ul style="list-style-type: none"> • Discourages mid-block crossings of Braeswood.
2	TMC Transit Center To MD Anderson skybridge	New skybridge	Main Campus	<ul style="list-style-type: none"> • Connect transit center to MA Anderson skybridge network at Duncan Building • Approx. 300 linear ft. • Covered, open air 	\$2,000,000	1	<ul style="list-style-type: none"> • Connects transit center into heart of TMC via existing climate-controlled walkways

* Order of magnitude only. Additional study required.

TEXAS MEDICAL CENTER MOBILITY STUDY
Prioitization Criteria

Shared-Use Paths

- 1 Closes critcal gap in network
- 2 Enables improved routes and connections
- 3 Upgrades connections that are already possible but not ideal

Sidewalks

- 1 Completes sidewalks along all thoroughfares and collectors
- 2 Upgrades sidewalks along to thoroughfares and collectors to be easily passable (especially by handicapped)
- 3 Connects existing sidewalks , previously recommended

Intersection Accessibility

- 1 Makes pedestrian facilities along all thoroughfares, collectors, and Type A streets accessible

Signs and Striping Bike Projects

- 1 Improves access to heart of Main Campus
- 2 Improves access to other parts of Primary Study Area

Skywalks

- 1 Connects high-pedestrian traffic facility to heart of TMC