

Bond 2020 Streets Pavement Design Recommendations

Project Name	Plasticity Index (PI)	Proposed Pavement Design/Bid Recommendation	Notes
Airport (Morgan to Horne)	35 to 65	Asphalt	High PI, Residential Collector, old airport runway pavement under existing street
Alameda (Texan Trail to Chamberlain)	40 to 50	Asphalt	High PI, Arterial Street, previous sections asphalt
Brownlee (Staples to Morgan)	30 to 50	Asphalt	High PI, Residential Collector
Carroll (Holly to Dead End)	20 to 47	Asphalt	Varying with high PI, Residential Collector
Comanche (Carancahua to Alameda)	30 to 60	Asphalt	High PI, Residential Collector
Hearn (Callicoatte to Dead End)	30 to 50	Asphalt	High PI, Residential Collector
Lipes (Sunwood to Staples)	12 to 57	Asphalt	Varying with high PI, Residential Collector, previous sections asphalt
Strasbourg-Grenoble to Marseille	0 to 53	Asphalt	Varying with high PI, Residential Collector, previous sections asphalt
Encantada-Encantada to Nueces County Park & PR 22	0	TXDOT Recommendation (Mostly Asphalt)	Intersection Improvements
PR22-Compass to PR22	0	TXDOT Recommendation (Mostly Asphalt)	Median Improvements
Rodd Field (Yorktown to Adler)	2 to 56	TXDOT Recommendation (Mostly Asphalt)	Varying with high PI, Temporary-to be built to full cross section in future
Beach Access Road-SH 361 to Beach	0	Concrete	Low PI, Easy to maintain
Flato (Bates to Bear)	8 to 47	Concrete	Varying with high PI, Residential Collector, previous section concrete, high truck traffic, industrial area
Waldron-SPID to Purdue	0 to 13	Concrete Pavement Repairs	Concrete Pavement Repairs
Everhart (Alameda to Staples)	32 to 50	Asphalt and Concrete	High PI, Arterial Street
Everhart (Staples to McArdle)	27 to 71	Asphalt and Concrete	High PI, Arterial Street
Frontier (McKinzie to Rockwood)	23 to 33	Asphalt and Concrete	Varying PI, Residential Collector
Jackfish (End to Aquarius to Park Rd 22)	0 to 20	Asphalt and Concrete	Low PI, Residential Collector
Park Rd 22 - South Access Rd (Commodore to Jackfish)	0	Asphalt and Concrete	Low PI, Residential Collector
Trinity River (FM624 to Wood River)	0 to 50	Asphalt and Concrete	Varying PI, Residential Collector
Wildcat (FM624 to Teague)	0 to 24	Asphalt and Concrete	Low PI, Residential Collector
Yorktown (Rodd Field to Oso Creek Bridge) Design Only	20 to 56	Asphalt and Concrete	Varying with high PI, Arterial Street

Bond 2020 Pavement Design Recommendations

Project Name	Soil Type	Plasticity Index (PI)	Soil Description with Individual PI	Plasticity Index (PI)	Existing Pavement Surface Type	Proposed Pavement Design/Bid Recommendation
Frontier (McKinzie to Rockwood)	PRELIMINARY DATA FROM GEOTECH - SANDY LEAN CLAY	23 TO 33		Low PI	Asphalt	Asphalt and Concrete
Yorktown (Rodd Field to Oso Creek Bridge) Design	SANDY LEAN CLAY, CLAYEY SAND, FAT CLAY, LEAN CLAY, POORLY GRADED SAND, SILTY SAND & SAND CLAY/ CLAYEY SAND	2 - 56 & 20 TO 50	Soil PI from 0 - 10' 1) 36, 35 2) 30, 3) 33, 33 4) 24 5) 28, 37 6) 23, 7) 23, 21 8) 20 9) 16, 37, 31 10) 21 11) 21, 23 12) 22 13) 20, 19 14) 16 15) 25, 15 16) 22 17) 17, 22 18) 19 19) 31 1) 41, 26 2) 49 3) 45 4) 42 5) 29 6) 33 7) 46 8) 42 9) 38 10) 26 11) 11, 28 12) 34 13) 23	Low to High PI	Concrete on Rodd Field from Saratogo to Yorktown, Asphalt on Yorktown from Cimarron to Rodd Field & Rodd Field to Oso Creek Bridge	Asphalt and Concrete
Wildcat (FM624 to Teague)	POORLY GRADED SAND, CLAYEY SAND	NP - 24	CMT SUBGRADE 28) 21, 29) NP, 30) 24, 31) NP	Low PI	Asphalt	Asphalt and Concrete
Alameda (Texan Trail to Chamberlain)	AWAITING GENERAL CLASSIFICATION DAN ROCK	40 - 50	CMT SUBGRADE 34) 48, 35) 45, 36) 40	High PI	Asphalt	Asphalt
Park Rd 22 - South Access Rd (Commodore to Jackfish)	POORLY GRADED SAND, CLAYEY SAND	NP	CMT SUBGRADE 35) NP, 36) NP	Low PI	Asphalt	Asphalt and Concrete
Everhart (Staples to McArdle)	FAT CLAY, FAT CLAY WITH SAND, LEAN CLAY, CLAYEY SAND, SANDY FAT CLAY	27 - 71, 32 - 35	CMT SUBGRADE 6) 32, 7) 34, 8) 35, 9) 35	High PI	Asphalt	Asphalt and Concrete
Everhart (Alameda to Staples)	AWAITING GENERAL CLASSIFICATION TARIQUL ANWAR TERRACON	32 - 35, 40 - 50	CMT SUBGRADE 6) 32, 7) 34, 8) 35, 9) 35 34) 48, 35) 45, 36) 40	High PI	Asphalt	Asphalt and Concrete
Carroll (Holly to Dead End)	PSI PRELIMINARY DATA - FAT CLAY	20-36 & 37 TO 47	CMT SUBGRADE 22) 35 23) 36 24) 25 25) 30 26) 22 27) 20	High PI	Asphalt	Asphalt
Flato (Bates to Bear)	CLAYEY SAND & SANDY LEAN CLAY, FAT CLAY	8 - 49, 36 - 47, 39 - 47	CMT SUBGRADE 22) 40 23) 44 24) 47 25) 47 26) 42 27) 39 28) 45	High PI	PCC	Concrete
Jackfish (End to Aquarius to Park Rd 22)	POORLY GRADED SAND	NP TO 20	1) NP 2) NP 3) NP 4) NP 5) NP 6) NP 7) NP 8) NP 9) NP 10) NP 11) NP	Low PI	HMAC	Asphalt and Concrete

Rodd Field (Yorktown to Adler)	SANDLY LEAN CLAY, CLAYEY SAND, FAT CLAY, LEAN CLAY, POORLY GRADED SAND, SILTY SAND	2 - 56	Soil PI from 0 - 10' 1) 36, 35 2) 30, 3) 33, 33 4) 24 5)28, 37 6) 23, 7) 23, 21 8) 20 9) 16, 37, 31 10) 21 11) 21, 23 12) 22 13) 20, 19 14) 16 15) 25,15 16) 22 17) 17, 22 18) 19 19) 31 1) 41, 26 2) 49 3) 45 4) 42 5) 29 6) 33 7) 46 8) 42 9) 38 10) 26 11) 11, 28 12) 34 13) 23		Concrete on Rodd Field from Saratogo to Yorktown, Asphalt on Yorktown from Cimarrong to Rodd Field & Rodd Field to Oso Creek Bridge	Asphalt
Lipes (Sunwood to Staples)	FAT CLAY, SANDY LEAND CLAY, LEAN CLAY WITH SAND, CLAYEY SAND, SANDY FAT CLAY	12 - 57,	1) 47 2)55 24, 3) 23, 50, 4) 46, 22 5) 38 6) 57, 29, 7) 54	High PI	Asphalt	Asphalt
Trinity River (FM624 to Wood River)	POORLY GRADED SAND, CLAYEY SAND, FAT CLAY & SANDY LEAN	NP - 24, & 30 TO 50	CMT SUBGRADE 28) 21, 29) NP, 30) 24, 31) NP	Low PI	Asphalt	Asphlat and Concrete
Hearn (Callicoatte to Dead End)	PRELIMINARY DATA FROM GEOTECH - CLAYEY SAND & SANDY LEAN CLAY, FAT CLAY	30 TO 50		High PI	Asphalt	Asphalt
Comanche (Carancahua to Alameda)	PRELIMINARY DATA FROM GEOTECH - FAT CLAYS, SANDY CLAYS	30-60		High PI	Asphalt	Asphalt
Brownlee (Staples to Morgan)	PRELIMINARY DATA FROM GEOTECH - FAT CLAY	30 to 50		High PI	Asphalt	Asphalt
Airport (Morgan to Horne)	PRELIMINARY DATA FROM GEOTECH - FAT CLAYS, SANDY CLAYS	35 - 65		High PI	Asphalt	Asphalt
Waldron-SPID to Purdue	POORLY GRADED SAND	NP - 13	CMT SUBGRADE 29) NP, 30) NP 31) 13 32) NP 33) NP 34) NP	Low PI	Concrete Repair	Concrete Pavement Repairs
PR22-Compass to PR22	POORLY GRADED SAND	NP	1) NP 2) NP 3) NP 4) NP 5) NP 6) NP 7) NP 8) NP 9)NP 10) NP 11) NP	Low PI	Asphalt	TXDOT Recommendation
Encantada-Encantada to Nueces County Park & PR 22	POORLY GRADED SAND	NP	1) NP 2) NP 3) NP 4) NP 5) NP 6) NP 7) NP 8) NP 9)NP 10) NP 11) NP	Low PI	Asphalt	Asphalt

Beach Access Road-SH 361 to Beach	POORLY GRADED SAND	NP	1) NP 2) NP 3) NP 4) NP 5) NP 6) NP 7) NP 8) NP 9)NP 10) NP 11) NP	Low PI	-	Concrete
Strasbourg-Grenoble to Marseille	SANDY FAT CLAY, FAT CLAY, SANDY LEAN CLAY	0 - 53	1) 5, 33 2) 47, 45, 25 3) 45, 53 4) 0, 49, 42	High PI	Asphalt	Asphalt