



March 4, 2026

City of Lee’s Summit
 220 SE Green
 Lee’s Summit, Missouri 64063

Attn: Mr. Gene Williams, P.E., Deputy Director of Public Works/City Engineer

RE: Pavement Sections
 Costco Wholesale – East Village Lot 1
 Colbern Road and Chipman Road
 Lee’s Summit, Missouri
 Terracon Project No. 02255162

Dear Mr. Williams:

Terracon Consultants, Inc. (Terracon) provided recommended pavement sections for the referenced project in our Geotechnical Engineering Report (Terracon Project No. 22055162 Rev 1, dated January 23, 2026). The following table of recommended pavement sections was included in our report:

Pavement Type	Material	Layer Thickness (inches)	
		Standard Duty	Heavy Duty
Flexible	Asphaltic Surface Course Superpave Surface – PG64-22	2	2
	Asphaltic Binder Course Superpave Surface – PG64-22	2	4
	Aggregate Base Course (MoDOT Type 5)	8	8
	Approved Proofrolled Soil Subgrade	12	12
Rigid	Portland Cement Concrete	5	8
	Aggregate Base Course (MoDOT Type 5)	8	8
	Approved Proofrolled Soil Subgrade	12	12

These pavement sections were based on a site-specific design, which used the inputs stated in the UDO Parking Lot Pavement Design Parameters, issued by City of Lee’s Summit, Missouri on March 3, 2016 (attached). The alternate pavement design includes an increased aggregate base thickness to allow a reduction in the asphalt base course.

Pavement Sections

Costco Wholesale – East Village Lot 1 | Lee’s Summit, Missouri
March 4, 2026 | Terracon Project No. 02255162



The calculated Structural Number (SN) meets or exceeds the SN for a 20-year design life for Costco-provided vehicle types and traffic volumes. **Therefore, the parking lot pavement design provided in our Geotechnical Engineering Report and in this letter is equivalent to, or better than, the standard City of Lee’s Summit minimum pavement thickness design for parking lots.**

If you have any questions about this letter, or if Terracon can be of further assistance, please contact me directly at laura.wagner-bartz@terracon.com or (913) 998-7416.

Sincerely,
Terracon

A handwritten signature in black ink, appearing to read 'Laura Wagner-Bartz', with a long horizontal flourish extending to the right.

Laura Wagner-Bartz, P.E.
Geotechnical Department Manager

A handwritten signature in blue ink, appearing to read 'Kole C. Berg', with a stylized, cursive script.

Kole C. Berg, P.E.
Senior Consultant

att: UDO Parking Lot Pavement Design Parameters



LEE'S SUMMIT MISSOURI

UDO PARKING LOT PAVEMENT DESIGN PARAMETERS

DATE: March 3, 3016

TO: File

FROM:  George M. Binger III, P.E. | Deputy Director of Public Works/City Engineer

Pavement Type	Reliability	Z _R	S ₀	P ₀	p _t	M _r (subgrade)	k _{mod}
AC Parking	85%	-1.037	0.45	4.2	2.0	3,000	n/a
AC Fire Lane	85%	-1.037	0.45	4.2	2.0	3,000	n/a
PCC	85%	-1.037	0.35	4.2	2.0	3,000	125

Material	Minimum Thickness	a	m	S _c Modulus of Rupture	J Load transfer	C _d Drainage	M _r (subgrade)	E _c
Asphalt Surface*	1.5"	0.42	n/a	-	-	-	-	-
Asphalt Base*	4"	0.36	n/a	-	-	-	-	-
Aggregate Base	6" with AC 4" with PCC	0.13	1.0	-	-	-	-	-
Stabilized Subgrade	6"	0.08	0.7	-	-	-	-	-
PCC	6"	-	-	550 psi	2.7	1.15	3,000	4,200,000 psi

*Note: Minimum asphalt thicknesses assume an asphalt base course is used. If alternate pavement design opts to increase aggregate base thicknesses to eliminate asphalt base course, minimum total thickness for all asphalt shall be 3.0 inches of surface asphalt.

