

Resolution amending City Council Policy 28 that outlines the guidelines for awarding arterial and collector street construction contracts using concrete pavement or asphalt pavement

WHEREAS, Council Policy 28 specifies that the policy will be updated annually;

WHEREAS, for the FY 2021 policy update, Public Works contracted with Roadway Asset Services (RAS) to re-evaluate the life cycle cost analysis between Asphalt (HMAC) and Concrete (PCC) pavements;

WHEREAS, the FY 2021 policy update includes an emphasis on the evaluation of existing geotechnical soil conditions, specifically the plasticity index (PI) of the existing soil;

WHEREAS, soils with a PI greater than 30 are characterized as expansive soil that will have a major impact on the performance of pavement structures and require more frequent maintenance due to a higher percentage of cracking and differential movement;

WHEREAS, HMAC pavements will require additional mill and overlay activities to correct differential movement and PCC pavements will require grinding and additional panel replacements due to differential movement

WHEREAS, to determine an updated life cycle cost analysis, RAS used maintenance activities, assigned costs to the activities, applied discount and inflation rates using a 40-year analysis timeline.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CORPUS CHRISTI, TEXAS:

SECTION 1. City Council Policy 28 is amended as follows:

28. – Award Guidelines for Arterial and Collector Streets with Concrete Pavement or Asphalt Pavement

If the project contains a majority subgrade with a PI greater than 30 or deemed as moderate to highly expansive soil by the design Geotechnical Engineer, the asphalt pavement alternative will be used by City Council when deciding to award a contract for arterial and collector roadways.

If the PI is less than 30 and if the construction cost for concrete pavement is within \$125,000 per lane mile (\$17.75/square yard), which should represent the future anticipated maintenance cost, of the asphalt pavement alternative, the concrete pavement alternative will be used by City Council when deciding to award a contract for arterial and collector roadways.

This policy will be updated annually.

ATTEST:

Rebecca Huerta
Rebecca Huerta
City Secretary

THE CITY OF CORPUS CHRISTI

Joe McComb
Joe McComb
Mayor

Corpus Christi, Texas

27th of October, 2020

The above resolution was passed by the following vote:

Joe McComb	<u>Aye</u>
Roland Barrera	<u>Aye</u>
Paulette Guajardo	<u>Aye</u>
Gil Hernandez	<u>Aye</u>
Michael Hunter	<u>Aye</u>
Ben Molina	<u>Aye</u>
Everett Roy	<u>Aye</u>
Greg Smith	<u>Aye</u>