

INPUTS

Project Identification

Project Title:	Roesner Road Ext-Widen
County	Fort Bend
Facility Type	Non Freeway
Street Name:	Roesner Road
Limits (From)	Gaston Road
Limits (To)	Katy GP
Length (in Miles)	2.86
Application ID Number:	301
Sponsor ID Number (CSJ, etc.):	

	Data entered by the sponsors
	HGAC regional travel demand model data provided by HGAC
	Data populated/calculated based on inputs
	Benefits calculated by the template

Proposed Improvements Information

Year Open to Traffic? (Must be >=2021)	2025
Type of Improvement	Adding New Lanes or Roads
Estimated Delay Reductions (in %)	40%
Service Life (years):	30

Interim Calculations for Delay Reductions

Estimated Free flow Travel Time (in Hrs)	0.0715
Estimated Average Travel Time without project (in Hrs)	0.0953
Estimate Average Delay without project (in Hrs)	0.0238
Estimate Delay Reduced	0.0095
Estimated Delay with project	0.0143
Average Peak Travel Time with project	0.0858

Daily Travel Demand

2018 ADT	16179
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2018 Peak Period Traffic Volume	6,957
Peak Period Traffic Volume in Year Open to Traffic	11,350

VHT Improvements	With Project	Without Project
VHT (Daily) In year open to traffic	974	1,082

Estimated Free Flow Speed before improvement	40
Average Peak Period Corridor Speed before improvement	30
2018 Peak Period Traffic Volume	6,957
2018 Peak Period Roadway Capacity	16,179
Estimated 2025 Peak Period Traffic Volume	11,350
2025 Peak Period Roadway Capacity	20,482
Estimated 2045 Peak Period Traffic Volume	13,070
2045 Peak Period Roadway Capacity	20,482

OUTPUTS

Benefit Results

Discounted Delay Benefits @ 7% (2018 \$, '000s)	\$8,534
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