NORTH COUNTY CORRIDOR TRANSPORTATION EXPRESSWAY AUTHORITY

ITEM: 3b
SUBJECT:
Value Analysis Study
STAFF RECOMMENDATIONS:
Information only
FISCAL IMPACT:
None
DISCUSSION:
Information only

	SUMMARY OF V EA 05800 North	'A ALT. DISPO County Corridor F	Stanislaus County							
Alt. No.	Description	Potential Savings & Performance	Your Name	Disposition*		on*				
				Α	CA	R	Comments			
ROADV	ROADWAY ITEMS									
1.0	Semi-depress local roads grade separation Interchanges	\$21,252,000 +16%			х		 This item is conditionally accepted to be studied further during PS&E. Each location to be evaluated separately. Depressing the local roads will depend on existing utilities, local access needs, drainage, constructability, maintenance costs, etc. Constructability and traffic staging will need to be taken into account before implementing this option. 			
2.0	Use Divergent Diamond Interchange (DDI) in lieu of Single Point Urban Interchange (SPUI)	N/A +15%				х	 This item is rejected. It is not an approved interchange type by Caltrans. It would not provide consistency along the corridor unless all of the interchanges were DDIs. No potential savings costs identified. It potentially requires additional project footprint and could affect local driveway access. 			
3.0	Use rock/pipe trench in median and wide ditches.	See items 3.1 and 3.2			x		 Items 3.1 and 3.2 have been combined into Item 3.0. This item is conditionally accepted to be studied further during PS&E. Various locations to be evaluated based on geotechnical soil recommendations. Maintenance issues to be evaluated for existing systems. 			
3.1	Use rock trench in lieu of wide ditches and retention basins	\$8,138,000					• This item has been combined with item 3.2 into a new item 3.0.			

*Disposition: A = Accept

R = Reject

SUMMARY OF VA ALT. DISPOSITIONS

EA 0S800 North County Corridor Project

Stanislaus County

Alt. No.	Description	Potential Savings & Performance	Your Name	Disposition*			Comments
				Α	CA	R	Comments
		+8%					
3.2	Use rock/pipe trench in median and minimize ditches and retention basins	\$18,213,000 +10%					This item has been combined with item 3.1 into a new item 3.0.
4.0	Use back to back MSE walls between Roselle and Claus to minimize footprint and fill; Shift alignment to further south at BNSF crossing to minimize footprint	\$2,030,000 +46%		x			 This item is accepted. It is to be implemented during the PA/ED or PS&E phase.
5.0	Make median slope to 4:1 in lieu of 10:1	\$2,841,000 +3%			х		 This item is conditionally accepted to be studied further during PS&E. Requires Caltrans advisory design exception. Additional work required for future widening.
6.0	Use continuous flow intersection design in lieu of triple left turn at Claus and Albers	N/A +14%			x		 This item is conditionally accepted to be studied further during PS&E. Traffic operations to be evaluated based on future Modesto realignment of Claus Road. Local driveway access will need to be taken into account before implementing.
7.0	Use light weight fill with pre- cast panel or shotcrete in lieu of imported borrow where	N/A +14%				х	 This item is rejected. It is an option that is available to any project depending on foundation and or other structure specific need.

*Disposition: A = Accept

R = Reject

SUMMARY OF VA ALT. DISPOSITIONS

EA 0S800 North County Corridor Project

Stanislaus County

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Alt. No.	Description	Potential Savings & Performance	Your Name	Disposition*		on*	Comments
				Α	CA	R	Comments
	applicable						
8.0	Use rubberized asphalt pavement	\$3,899,000 +10%		х			 Item 8.2 has become a stand-alone item 8.0. This item is accepted. It is to be implemented during the PA/ED or PS&E phase.
8.1	Use FORTA-FI pavement additive to reduce pavement section	\$15,600,000 +14%					This item has become stand-alone Item 12.0
8.2	Use rubberized asphalt pavement	\$3,899,000 +10%					This item has become stand-alone Item 8.0.
9.0	Use "bench" to minimize shoulder structural section	\$7,749,000 +8%				x	 This item is rejected. Requires Caltrans mandatory design exception for use at inside 5' shoulder. Concerned with maintenance issues. Difficult to construct.
10.0	Use Quicklime Plus treated base to reduce structural section	\$8,547,000 +8%			х		 This item is conditionally accepted to be studied further during PS&E. Each location to be evaluated separately. Lime is to be used depending on geotechnical soil recommendations. Not to be implemented on local roads due to difficulty in accessing underground facilities.

*Disposition: A = Accept R = Reject

SUMMARY OF VA ALT. DISPOSITIONS Stanislaus County EA 0S800 North County Corridor Project Disposition* **Potential** Alt. Description Savings & **Your Name Comments** No. CA R Performance Α • This item is conditionally accepted to be studied further 11.0 Minimize ROW to \$2~10 million accommodate 4-lane only, during PS&E. +24% Χ from Oakdale Claus to SR-120 • Requires Caltrans advisory design exception in rural area. (Median reduction to 46') • Consider safety based on traffic volumes.

Χ

• Item 8.1 has become a stand-alone item 12.0.

• It may be implemented on local roads.

during PS&E.

NCC mainline.

• This item is conditionally accepted to be studied further

• Currently not an approved material by Caltrans. It would need to be tested and approved by Caltrans prior to use on

*Disposition: A = Accept R = Reject

Use FORTA-FI pavement

section

additive to reduce pavement

12.0

\$15,600,000

+14%