6 - Fre - 99 - PM 16.9/17.3 06-0H240K-0600020559 Program Code - 400.100 November 2016

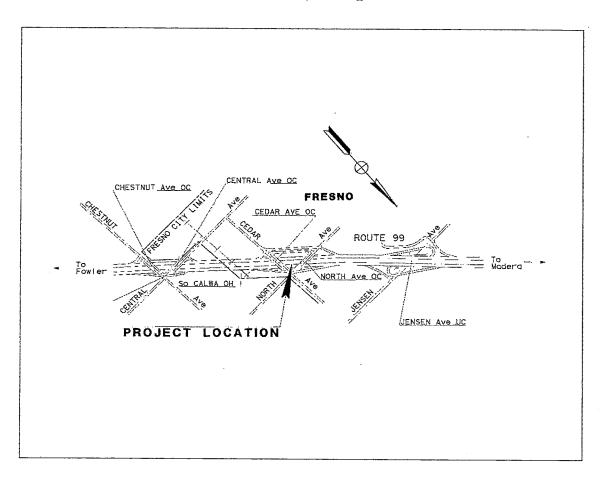
Project Study Report-Project Development Support (PSR-PDS)

To

Request Programming for Capital Support (Project Approval and Environmental Document Phase) in a future STIP

	On Route	99	
	Between	Post mile 15.49 Chestnut Ave OC	·
	And	Post mile 18.58 Jensen Ave UC	
APPROVAL I	RECOMMI	NDED:	
		GAIL MILLER, PROJECT SPONSO DISTRICT, PLANNING, LOCAL PROGRA ENVIRONMENTAL ANALYSIS	OR, DEPUTY MS AND
APPROVAL F	RECOMMI	NDED:) H
		NEIL BRETZ, PROJECT MANA	ŒR
APPROVED:	X	G-691	
		The Hunder 12/6	2016
:	SHARRI BĖ	DER EHLERT, DISTRICT DIRECTOR	DATE

Vicinity Map



This project study report-project development support has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

REGISTERED CIVIL ENGINEER

DATE

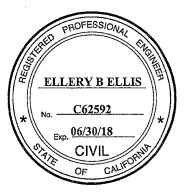


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1. INTRODUCTION

Project Description:

It is proposed to modify the existing split interchange at North Avenue and Cedar Avenue on Route 99 in the City of Fresno to increase traffic capacity and improve traffic operations (See Attachment A, "Project Vicinity Map").

See the cost estimate for specific work items included in this project.

Project Limits	06-Fre-99
	Postmile 16.9
Number of Alternatives	4 Build Alternatives
Current Capital Outlay	\$2,000,000
Support Estimate for PA&ED	
Current Capital Outlay	\$35,000,000 to \$40,000,000
Construction Cost Range	
Current Capital Outlay Right-	\$17,000,000 to \$27,000,000
of-Way Cost Range	
Funding Source	STIP/Local Funds
Type of Facility	Interchange
Number of Structures	2
Anticipated Environmental	ND-FONSI
Determination or Document	
Legal Description	Interchange Modification
Project Development Category	4A

The remaining capital outlay support, right-of-way, and construction components of the project are preliminary estimates and are not suitable for programming purposes. Either a project report or a supplemental PID following the format of a PSR will serve as the programming document for the remaining components of the project. A project report will serve as approval of the "selected" alternative.

2. BACKGROUND

Route 99 is an important regional and local facility within the San Joaquin Valley. It is a major truck route, which provides critical access for shipment of agricultural goods to markets outside of the Valley. It also serves as a significant recreational access during the summer months. Regionally, Route 99 extends in the south-north direction to link the San Joaquin and Sacramento Valleys from Interstate 5 approximately 8 miles north of Lebec to a junction with Interstate 5 in Red Bluff. Route 99 is a 6-lane facility throughout the City of Fresno with a posted speed limit of 65 mph. In the project area, the Route 99 travel lanes are 12 feet wide with 5-foot left and 10-foot right paved

shoulder widths. A 46-foot wide median divides the northbound and southbound travelways. The width from the center of the median to the inside edge of the travel way is approximately 23 feet in each direction.

3. PURPOSE AND NEED

Purpose:

The purpose of this project is to modify the existing split interchange at North Ave/Cedar Avenue and Route 99 to a single interchange at North Avenue eliminating the Cedar Avenue ramps and to accommodate anticipated future traffic at Level of Service (LOS) "D" or better through the year 2045. These modifications will also improve traffic operations at the interchange and improve pedestrian circulation.

Need:

The existing Route 99 six-lane freeway has adequate capacity for the existing traffic. Degradation in level of service below LOS "D" is anticipated at the North Avenue/Cedar Avenue Route 99 interchange within the next few years. The southbound (SB) and northbound (NB) off-ramps with Two-Way Stop Control currently operate at LOS "E" and "B" during peak travel hours respectively. This degradation will continue as the City of Fresno approves industrial and commercial development on either side of the interchange.

4. TRAFFIC ENGINEERING PERFORMANCE ASSESSMENT

An Operational Analysis Report for Route 99 at North Avenue was completed by the Traffic Operations Branch October 4, 2016. The report recommends the following five proposed alternatives. The specific description of each alternative is outlined in Section 7 of this document.

Alternative 1: Standard Partial Cloverleaf Type L-9 Interchange

This alternative would construct a new standard Type L-9 interchange at North Avenue and remove the existing ramps at Cedar Avenue. A 6-lane North Avenue OC would be required. The following Table are the LOS results.

Design Year	AM (PM) Peak Hour LOS				
2045	North/Orange North/SB ramps North/NB ramps North				
	C (D)	C (B)	B (A)	D (E)	

Queuing problems at the eastbound North Avenue to Cedar Avenue and westbound North Avenue to Orange Avenue are expected to occur. An eastbound right-turn

overlap on North Avenue to Cedar Avenue and a westbound left-turn protected permissive on North Avenue to Orange Avenue may reduce the queuing problem.

Alternative 2: Modified Partial Cloverleaf Interchange

This alternative would construct a new Type L-9, modified interchange at North Avenue and remove the existing ramps at Cedar Avenue. A 6-lane North Avenue OC would be required. The following Table are the LOS results.

Design Year	AM (PM) Peak Hour LOS					
2045	North/Orange	North/Orange North/SB ramps North/NB ramps North/Cedar				
	C (D) C (A) B (A) D (D)					

Queuing problems at the eastbound North Avenue to Cedar Avenue and westbound North Avenue to Orange Avenue are expected to occur. An eastbound right-turn overlap on North to Cedar and a westbound left-turn protected permissive on North to Orange may reduce the queuing problem.

Alternative 3: Modified Spread Diamond Interchange

This alterative would reconstruct the existing interchange to a Modified spread diamond Type L-2 interchange at North Avenue and remove the existing ramps at Cedar Avenue. A 7-lane North Avenue Overcrossing is required. This modified Type L-2 interchange would not provide spaces for the future loop on-ramps. However, the left-turn storage on the OC would be longer than that in the tight diamond interchange. The storage and capacity are limited for this type of interchange. The following Table are the LOS results.

Design Year	AM (PM) Peak Hour LOS					
2045	North/Orange	North/Orange North/SB ramps North/NB ramps North/Cedar				
	C (D) C (B) B (B) E (E)					

Alternative 4: Diverging Diamond Interchange (DDI)

This alternative would reconstruct the existing interchange to directional crossovers on either side of the interchange on North Avenue. A 5-lane OC (3-lane EB and 2-lane WB) on North Avenue would be required. The following Table are the LOS results.

Design Year	AM (PM) Peak Hour LOS					
2045	North/Orange	North/Orange North/SB ramps North/NB ramps North/Cedar				
	D (E) B (B) C (C) C (D)					

Because of the 2 phase signal at the crossover intersections, half cycle length would be required. Therefore, a longer cycle length with longer storage at the adjacent intersections (North/Cedar Avenues and North/Orange Avenues) would be required. A

signal modification would improve the intersection operations, such as protected permissive for left-turn lanes, or skipping side street phasing. Additional signals for some ramp locations may be needed. A more detail analysis will need to be conducted during PA&ED phase.

Alternative 5: Single Point Interchange (SPI), Type L-13 (Rejected Alternative)

This alternative would reconstruct the existing interchange ramps to a single point crossing by combining the two separate diamond ramp intersections into one large atgrade intersection. This would increase the intersection spacing on North Avenue between the interchange ramps and Cedar/Orange Avenues. This interchange would require a 7-lane North Avenue OC plus eastbound and westbound right-turn lanes to the on-ramps. Triple left-turn and right-turn lanes on the southbound off-ramps, and 3 eastbound through lanes at Cedar Avenue would be required. The following Table are the LOS results.

Design Year	AM (PM) Peak Hour LOS			
2045	North/Orange North/NB ramps/SB ramps North/Ceda			
	C (D)	C (C)	C (E)	

A back to back left-turn lane on North Avenue between the intersections was analyzed. Queuing on the eastbound left-turn to Cedar and westbound left-turn to Orange may occur. This would need a further signal timing analysis if it is selected. (Rejected Alternative, See Alternative Section).

Accident Analysis

Route 99

The accident history for the highway segment for the most recent three-year study period excluding the ramp accidents (10/1/2010 to 9/30/2013) from PM 16.625 to 17.825, as shown on Table B, indicates that the Actual Fatal, Fatal plus Injury, and Total accident rates are lower than the Statewide Average Fatal, Fatal plus Injury, and Total accident rates for similar roadway with comparable traffic volumes for the northbound Route 99. On the southbound Route 99, the Actual Fatal accident rate is higher that the Statewide Average Fatal accident rate. However, the Actual Fatal plus injury and Total accident rates are lower than the Statewide Average Fatal plus Injury and Total accident rates. The accident rates in accidents per million-vehicle miles (MVM) are as follows:

	Actual (MVM)		Average (MV)		VM)	
Highway Segment	Fatal	F+I	Total	Fatal	F+I	Total
NB Route 99 (PM 16.625/17.825)	0.000	0.17	0.53	0.004	0.20	0.61
SB Route 99 (PM16.625/17.825)	0.017	0.19	0.51	0.004	0.20	0.61

North and Cedar Avenue Ramps:

The accident history for the same three-year study period for the following Route 99 ramps at North and Cedar Avenues indicates that the Actual Fatal, Fatal plus Injury, and Total accident rates are lower than the Statewide Average Fatal, Fatal plus Injury, and Total accident rates for similar roadway with comparable traffic volumes. The accident rates in accidents per million-vehicles (MV) are:

Route 99 Ramps	Actual			Average			
	PM	Fatal	F + I	Total	Fatal	F+I	Total
SB on-ramp from Cedar Ave	16.698	0.000	0.00	0.41	0.002	0.22	0.63
NB off-ramp to Cedar Ave	16.774	0.000	0.00	0.00	0.003	0.35	1.01
NB on-ramp from North Ave	17.435	0.000	0.00	0.27	0.002	0.22	0.63
SB off-ramp to North Ave	17.479	0.000	0.00	0.55	0.003	0.35	1.01

A majority of the Route 99 accidents were rear-ends. Most of Rear End accidents were related to the traffic congestion during evening commute hours and caused by driver errors. No accident patterns were found.

5. DEFICIENCIES

The existing ramp termini are one-way stop controlled and would not handle project traffic volumes for the design year. Currently the southbound off-ramp operates at LOS"D/E" for peak morning traffic. All four existing intersection termini locations for North Avenue, and Cedar Avenue, are skewed at a less than standard intersection angle. The existing overcrossings at North Avenue and Cedar Avenue do not meet current sight distance standards.

6. CORRIDOR AND SYSTEM COORDINATION

The Ultimate Transportation Concept in the Route 99 Transpertation Concept Report (TCR) is an 8-lane freeway with northbound and southbound auxiliary lanes. The proposed alternatives will be able to accommodate the ultimate facility at this interchange location.

7. ALTERNATIVES

Listed below are the four build alternatives. All of the alternatives will require a new bridge structure over Route 99 at North Avenue.

Alternative 1 would construct a <u>Type L-9 Standard Partial Cloverleaf Interchange</u> at the North Avenue Overcrossing at Route 99. This alternative would construct two hook on-ramps and standard off and on ramps at the ramp termini. Due to the operational constraints, the Cedar Avenue and North Avenue intersection would need to be relocated approximately 300 feet east of its existing location. This interchange would

require an additional significant amount of right of way at the northeast and southwest quadrants to accommodate the standard on-ramps.

Alternative 2 would construct a <u>Type L-9 Modified Partial Cloverleaf Interchange</u> at the North Avenue Overcrossing at Route 99. This alternative would construct two hook on-ramps and northbound and southbound on-ramps. The on-ramps would be modified to slip ramps which would require no additional right of way on the northeast quadrant and less right of way on the southwest quadrant.

Alternative 3 would construct a <u>Type L-2 Modified Spread Diamond Interchange</u> at the North Avenue Overcrossing at Route 99. This alternative would reconstruct the existing interchange to a Modified spread diamond Type L-2 interchange at North Avenue and remove the existing ramps at Cedar Avenue. This modified Type L-2 interchange would not provide spaces for the future loop on-ramps. However, the left-turn storage on the OC would be longer than that in the tight diamond interchange. The footprint for this alternative would have similar impacts to Alternative 1. However, the northbound ramp terminal intersection would have sufficient spacing from the existing Cedar Avenue and North Avenue intersection for traffic operation.

Alternative 4 would construct a <u>Diverging Diamond Interchange</u> (DDI) at the North Avenue overcrossing at Route 99. This alternative would construct a five-lane overcrossing. The overcrossing would also have room for shoulders and pedestrian traffic. The footprint for this alternative would have similar impacts to Alternative 2. This alternative would not need hooks ramps. However due to the limited space for the right turn on ramp traffic, retaining walls would need to be incorporated. A retaining wall would also need to be placed in the northeast corner of the interchange area to minimize right of way impacts. It is anticipated that this alternative would require a longer phase time for the adjacent signalized intersections for Cedar Avenue and Orange Avenue. Therefore longer right turns and left turns will be needed along North Avenue to accommodate anticipated storage needs at these locations. A further signal operational analysis will be necessary during the project report phase. Traffic signal operations for DDIs are unique compared to conventional signals.

Rejected Alternative

Alternative 5 would construct a <u>Type L-13 Single-Point interchange</u> at the North Avenue overcrossing at Route 99. This alternative was rejected due the excessive cost. Due to the total number of lanes (12 lanes) required to accommodate left turn movements, northbound and southbound ramp movements, the overcrossing bridge structure needed would need to be more than double the width of the four other viable alternatives. Also, this alternative would have the added expense of the retaining walls similar to Alternative 4. Therefore this alternative was determined to be non-viable.

Listed on the next page is a table outlining the exceptions needed and categorizes the risk level of approval as discussed with the Design Office Chief.

	Design St	andards Risk Assess	sment
Alternative	Design Standard from Highway Design Manual Tables 82.1A & 82.1B	Probability of Design Exception Approval (None, Low, Medium, High,)	Justification for Probability Rating
1	SB off ramp Auxliary Lane HDM 504.3(6)	Low	Specific traffic volumes are needed during PA&ED. Future Traffic Volumes are greater than 900 vph.
2	SB off ramp Auxliary Lane HDM 504.3(6)	Low	Specific traffic volumes are needed during PA&ED. Future Traffic Volumes are greater than 900 vph
3	SB off ramp Auxliary Lane HDM 504.3(6)	Low	Specific traffic volumes are needed during PA&ED. Future Traffic Volumes are greater than 900 vph
4	SB off ramp Auxliary Lane HDM 504.3(6)	Low	Specific traffic volumes are needed during PA&ED. Future Traffic Volumes are greater than 900 vph

8. RIGHT-OF-WAY

A right of way data sheet for each viable alternative is included as Attachment "F". Refer to the data sheet to see a list of assumptions and risks involved with the right of way determination.

Utilities:

A majority of the utilities are adjacent to North Avenue on the south side of the roadway. As described in the Alternative section of this report a new overcrossing for North Avenue will require the relocation of these utilities. It is noted that there is a 16-inch high pressure gas main imbedded in a steel casing and a Fresno City 42-inch sewer line which are located on the southside of North Avenue that will need to be relocated and or additionally protected in the area where structures will be needed. This also may be an added cost to the bridge structure if avoidance measures are needed for the structural design. These preliminary estimates for this project do not take into account the additional costs that may result for such a special design.

Railroad:

There is a Southern Pacific rail line that runs parallel to Cedar Avenue. There are no impacts on the railroad associated with this project, however a Railroad Clearance letter will be rquired.

High Speed Rail:

The High Speed Rail Facility is currently being constructed east of the proposed North Avenue interchange. The facility traverses in a south westerly direction crossing North Avenue, Cedar Avenue and Route 99 on elevated bents. Special consideration for barrier or end treatment protection will be needed for North Avenue and Cedar Avenue. This will require on-going coordination with the High Speed Rail Authority to insure treatment measures are addressed.

9. STAKEHOLDER INVOLVEMENT

This project is located in the City of Fresno (City). This report is being financed through a cooperative agreement between Caltrans and the Fresno County Transportation Authority. The City is the project sponsor and is in full support of the exploration of the build alternatives.

10. ENVIRONMENTAL COMPLIANCE

The anticipated environmental document for the proposed project is a Mitigated Negative Declaration/Finding of No Significant Impact. This document level has been selected based on the impacts to businesses, harzardous waste, and aesthetics which are anticipated to be mitigated below the threshold of significance as defined by CEQA. Caltrans would act as the lead agency in the preparation of a joint NEPA/CEQA (National Environmental Policy Act/California Evironmental Quality Act) environmental document. Caltrans will serve as NEPA lead agency under its assumption of responsibility pursuant to 23 U.S. Code 327. The estimated time to obtain the environmental approval is 36 months from the start of the environmental studies.

It is anticipated that multiple environmental studies and reports will be required for this project including (but not limited to): air quality study, noise study, preliminary site assessment, paleontological identification report, and visual impact assessment. Paleontological monitoring is expected as a requirement of the project along with preconstruction surveys for nesting birds.

In Attachment D the preliminary environmental analysis report, the environmental schedule was based on the assumption the process would begin in January 2017. However, due to funding constraints the process is not scheduled to begin until September 2023.

11. FUNDING

It is anticipated this project will be funded using a combination of STIP and local Measure C funds. The project is currently programmed in the Measure C expenditure Plan with funding available for PA&ED phase in the 23/24 fiscal year. The estimate

for capital outlay support is for planning purposes only and will need to be updated prior to programming the PA&ED in the 23/24 fiscal year.

Capital Outlay Project Estimate

		Total	Funds
	Description	Construction	Right-of- Way
Alternative 1	Type L-9 Standard Partial Cloverleaf	38,026,000	26,783,023
Alternative 2	Type L-9 Modified Partial Cloverleaf	35,919,000	17,829,505
Alternative 3	Type L-2 Modified Spread Diamond	38,123,000	18,209,676
Alternative 4	Diverging Diamond (DDI)	35,596,000	17,210,000

The level of detail available to develop these capital outlay project estimates is only accurate to within the above ranges and is useful for long-range planning purposes only. The capital outlay project estimates should not be used to program or commit State-programmed capital outlay funds.

Capital Outlay Support Estimate

Capital outlay support estimate for programming PA&ED in a future STIP for this project is \$2,000,000.

12. DELIVERY SCHEDULE

Project Milestones	Scheduled Delivery Date (Month/Day/Year)	
PROGRAM PROJECT	M015	06/01/23
BEGIN ENVIRONMENTAL	M020	09/01/23
CIRCULATE DED EXTERNALLY	M120	06/01/26
PA & ED	M200	09/01/26

The anticipated funding fiscal year for construction is 2029/30.

13. RISKS

As stated in the the alternative section of this report current projected traffic volumes require an advisory design exception for the accommodation of right of way for a future auxiliary lane for the Southbound off-ramp to North Avenue which has a low probability of approval. However traffic volumes will be updated during Project Approval and Environmental Document phase which could eliminate the need for the advisory exception.

14. EXTERNAL AGENCY COORDINATION

Federal Highway Administration (FHWA)

This project is considered to be an Assigned Project in accordance with the current FHWA and Department of Transportation (Caltrans) Joint Stewardship and Oversight Agreement.

The project requires the Following coordination

The City of Fresno

Possible relocation and or protection of existing sewer main.

High Speed Rail Authority

Special consideration of barrier or end treatment protection will be needed for North Avenue and Cedar Avenue

Fresno Irrigation District (FID)

An existing FID water canal will need to be relocated. This will require coordination with the agency through a coorporative agreement.

Fresno Metropolitan Flood Control District (FMFCD)

Possible protection of existing storm drain crossing.

15. PROJECT REVIEWS

Field Review		Date 07/01/15	
Headquarters Project Delivery C	Coordinator Paul Gennaro	Date 10/20/16	
Project Manager	Neil Bretz	Date 10/10/16	
District Safety Review Safety	Review Committee	Date 10/25/16	
Constructability Review	PDT	Date 10/28/16	

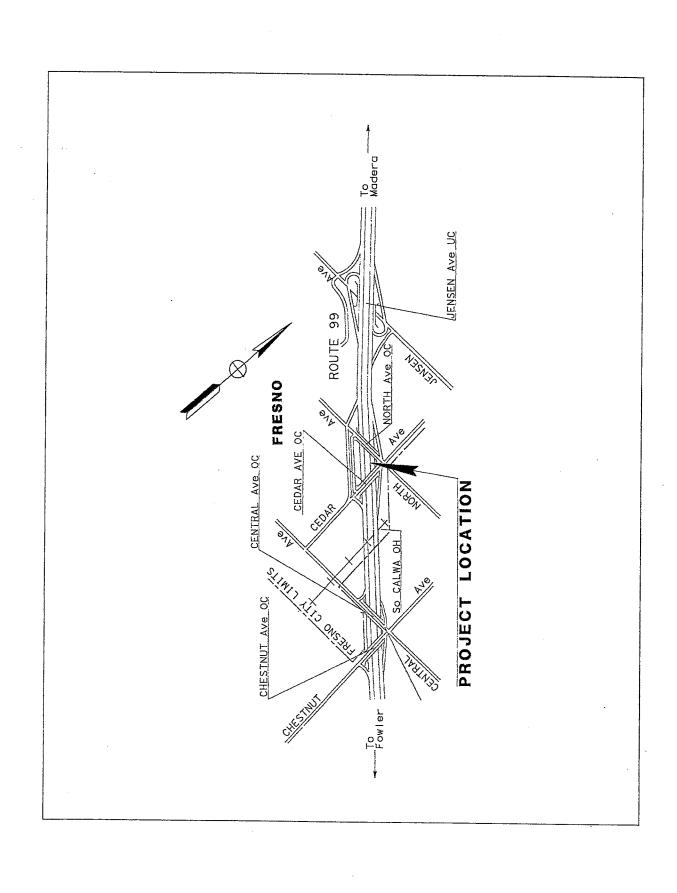
16. PROJECT PERSONNEL

Contact	Function	Phone No.
Neil Bretz	Project Manager	(559) 243-3465
Albert Lee	Traffic Operations Chief	(559) 488-4111
Arthur Ramirez	Design Engineer	(559) 243-3813
Ellery Ellis	Project Engineer	(559) 243-3589
Richard Putler	Environmental Analysis Branch Chief	(559) 445-5286

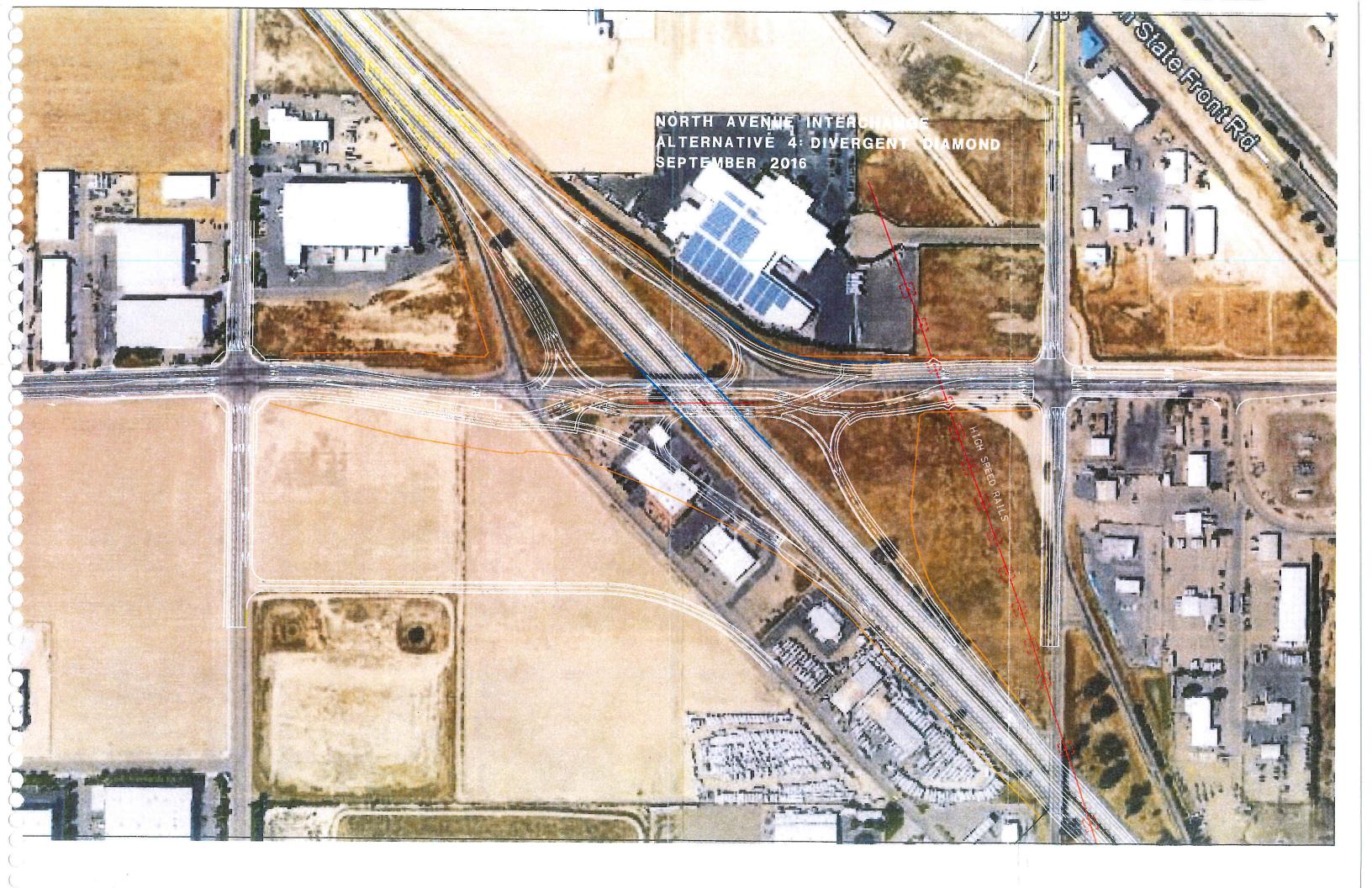
17. ATTACHMENTS

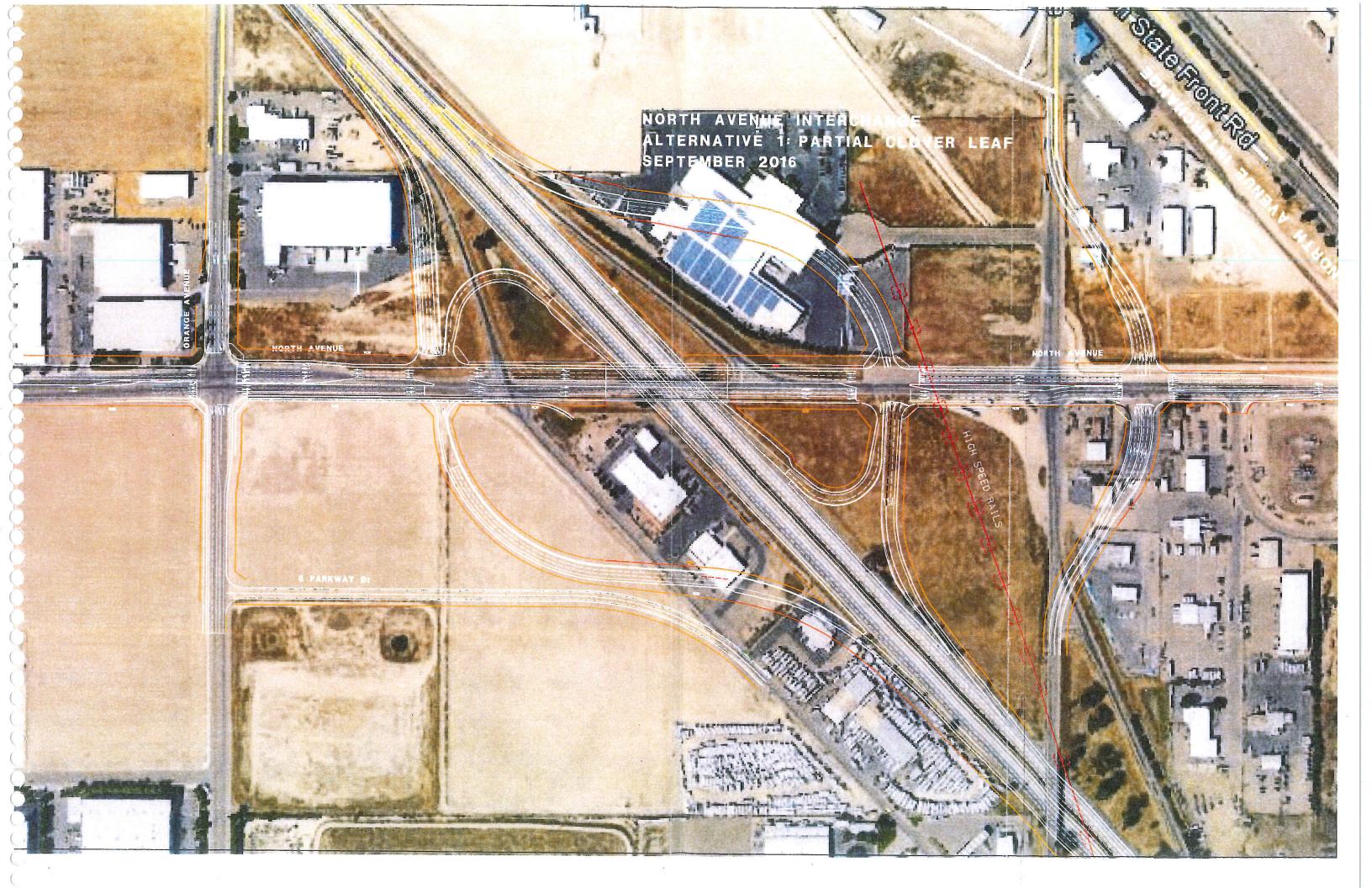
- A. Location map (1)
- B. Alternative Layouts
- C. Estimate Alternative 1, 2, 3, and 4
- D. PEAR
- E. Rght of Way Data Sheet
- F. Traffic Management Plan
- G. Storm Water Data Report-signed cover sheet
- H. Risk Management Plan

ATTACHMENT A

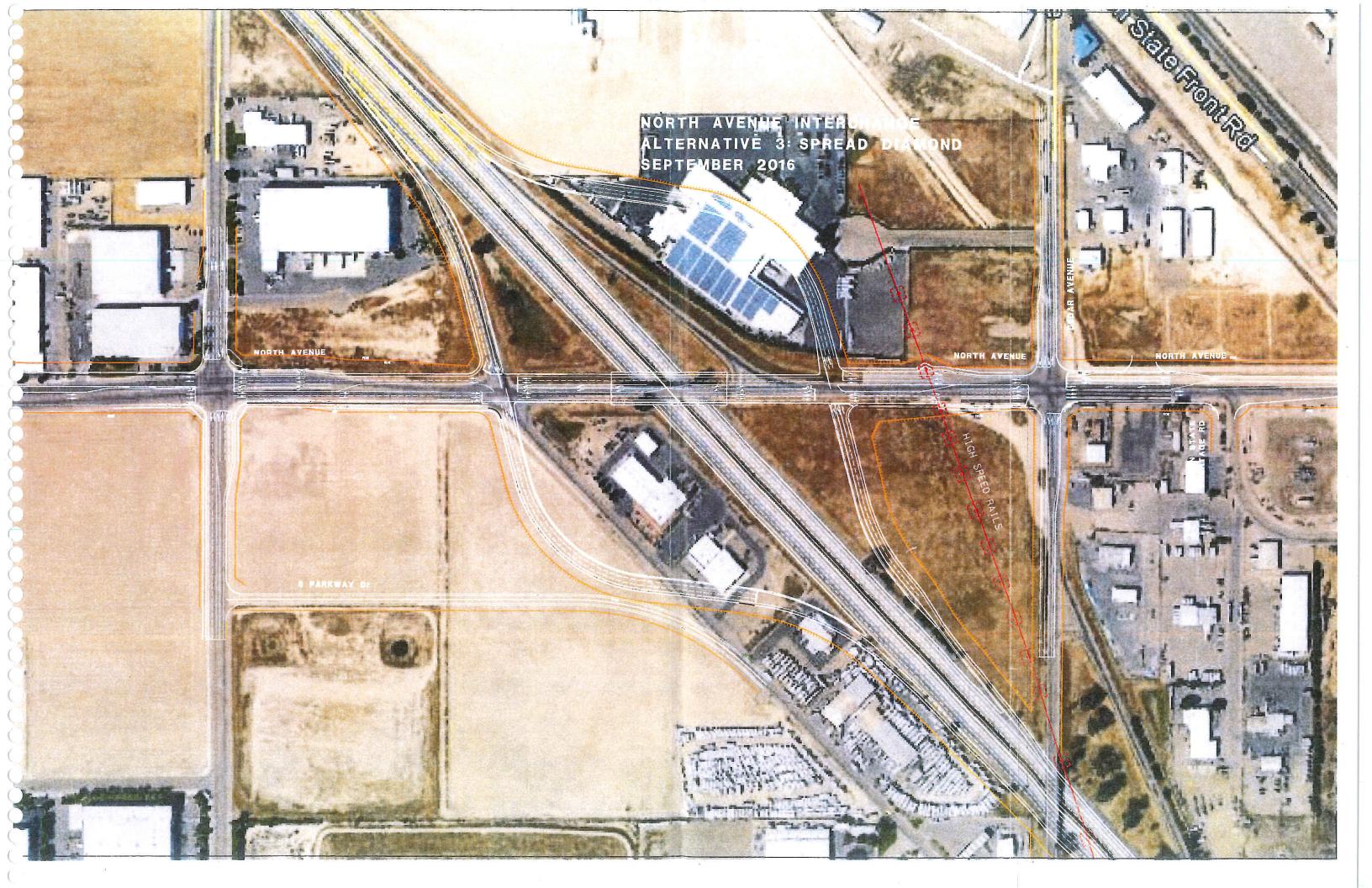


ATTACHMENT B









ATTACHMENT C



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

PROJECT DESCRIPTION:

Limits: In Fresno County at R	toute 99 and North A	venue Interchange (PM 16.6/17	7.6)		
Proposed Interchange (Type L-9 Improvement:))				
(Scope of Work)					
Alternative: No. 1					
SUMM	ARY OF PROJEC	T COST ESTIMATE			
I. ROADWAY ITEMS	;	Sections 1 -5	\$	13,351,400	
II. ROADSIDE ITEMS	5	Sections 6 -7	\$	2,363,750	
III. ROADWAY ADDIT	TIONS	Sections 8 -10	\$	5,310,000	
TOTAL ROADWAY	Total of Sections	1 - 10 shown above		\$	21,026,000
TOTAL STRUCTURES				\$	17,000,000
	SUBTOTAL CO	NSTRUCTION COSTS		\$	38,026,000
TOTAL RIGHT OF WAY I	TEMS (Not Escala	ted)		\$	26,783,000
TOTA	AL PROJECT CAP	PITAL OUTLAY COSTS		\$	64,809,000
Reviewed by					•
District Program Wanager:					
		(Signature)		(Date)
have and has Decir at Bilancous	•				
Approved by Project Manager:		(Signature)		(Date)
Phone Number:		<u> </u>			
					Form revised 8/21/07



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

I. ROADWAY ITEMS

Section 1 - Earthwork	Quantity	Unit	<u>Unit Price</u>	Item Cost	Section Cost
Roadway Excavation	43,675	CY	· \$16	<u>\$698,805</u>	
Imported Borrow	2,500	CY	\$20	<u>\$50,000</u>	
Clearing & Grubbing	1	LS	\$20,000	\$20,000	
Develop Water Supply	0	LS	\$0	<u>\$0</u>	
				<u>\$0</u>	
				<u>\$0</u>	
	-			<u>\$0</u>	
			Subto	tal Earthwork:	\$768,805
Section 2 - Pavement Structural Sect	ion*			····	
PCC Pvmt 0.85 Depth	3,800	CY	\$250	\$950,000	
PCC PvmtDepth	0	CY	\$0	<u>\$0</u>	
НМА	36,850	Tons	\$75	\$2,763,750	
Lean Concrete Base	0	CY	\$0	<u>\$0</u>	
Cement-Treated Base	0	CY	\$0	<u>\$0</u>	
Aggregate Base	25,476	CY	\$100	\$2,547,600	
Treated Permeable Base	0	CY	\$0	<u>\$0</u>	
Aggregate Subbase	0	CY	\$0	<u>\$0</u>	
Minor Concrete (PCC Curb,Gutter, Sidewalk)	2,200	CY	6270	©044.000	
Edge Drains	0	FT	\$370	\$814,000	
Luge Dialits		I'' 1	\$0 \$0	<u>\$0</u>	
-			<u> </u>	<u>\$0</u> \$0	
-	······································		Subtotal Struc		\$7,075,350
Section 3 - Drainage			Oublotal Office	iturai dection.	\$7,070,000
Large Drainage Facilities	0		. \$0	<u>\$0</u>	
Storm Drains	1		\$250,000	\$250,000	·
Pumping Plants	0		\$0	\$ <u>0</u>	
Project Drainage	0		\$0	<u>\$0</u>	
(X-Drains, overside, etc.)				**	
CMP	0	ΥÐ	\$0	<u>\$0</u>	
RCP	0	YD	\$0	<u>\$0</u>	
-			Subto	otal Drainage:	\$250,000

^{*} Reference sketch showing typical pavement structural section elements of the roadway. Include (if available) T.I., R-Value and date when tests were performed.



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

TOTAL ROADWAY ITEMS Sections 1 thru 5 \$13,351,412

Program Code: 20.10.201.315

Section 4 - Specialty Items	Quantity	Unit	Unit Price	Item Cost	Section Cost
Retaining Walls	0		\$0	<u>\$0</u>	
Water pollution Control	1	LS	\$1,000,000	<u>\$1,000,000</u>	
Retaining Walls	0	LS	\$0	<u>\$0</u>	
Equipment/Animal Passes	0		\$0	<u>\$0</u>	
Highway Planting	0		\$0	<u>\$0</u>	
Replacement Planting	0		\$0	<u>\$0</u>	
Irrigation Modification	0		\$0	<u>\$0</u>	
Relocate Private Irrigation	0		\$0	<u>\$0</u>	
Erosion Control	1	LS	\$0	<u>\$0</u>	
Slope Protection	0		\$0	<u>\$0</u>	
Construction Site BMPs	1	LS	\$200,000	\$200,000	
Haz Materials Mitigation	0		\$0	<u>\$0</u>	
Environmental Mitigation	0		\$0	<u>\$0</u>	
Resident Engineer Office	1	LS	\$12,000	<u>\$12,000</u>	
			Subtotal S	Specialty Items:	\$1,212,000
				_	
Section 5 - Traffic Items					•
Construction Area Signs	1	LS	\$100,000	\$100,000	
Traffic Handling (Includes Defour)	1	LS	\$160,096	<u>\$160,096</u>	
Portable Changeable Message Sign	1	LS	\$40,000	<u>\$40,000</u>	
Roadside Signs	1	LS	\$775,561	\$775,561	
Pavement Delineation	1	LS	\$49,600	\$49,600	
Traffic Signal System	4	EA	\$250,000	\$1,000,000	
Ramp Metering System	4	EA	\$140,000	\$560,000	
CCTV System	2	<u>EA</u>	\$50,000	<u>\$100,000</u>	
Modify CMS System	2	<u>EA</u>	\$250,000	<u>\$500,000</u>	
Modify Highway Advisory Radio System	1	LS	\$50,000	\$50,000	•
Traffic Count Station	6	EA	\$10,000	\$60,000	
Fiber Optic Communication Infrastructure	1	LS	\$300,000	<u>\$300,000</u>	
Highway Lighting Sytem	1	LS	\$300,000	\$300,000	
Remove Existing Electrical System	1	LS	\$50,000	<u>\$50,000</u>	•
Fiber Optic System	0	LS	\$0	<u>\$0</u>	
			Subtota	al Traffic Items:	\$4,045,257
				_	

Page 3 of 9



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

II. ROADSIDE ITEMS

II. ROADSIDE ITEMS	Ougntitu	Unit	Unit Price	Itam Cont	Section Cost
Section 6 Planting and Irrigation	Quantity	ACRES	Unit Price	Item Cost	Section Cost
Highway Planting	30		\$55,000	\$1,650,000	
Replacement Planting	1	LS	\$30,000	\$30,000 \$30,000	
Irrigation Crossover	560	EA	\$55	<u>\$30,800</u>	
Vegetation Control Treatment	0		\$0	<u>\$0</u>	
	0	·	\$0	<u>\$0</u>	
	0	 	\$0	<u>\$0</u>	
	0	LS	\$0	<u>\$0</u>	
	0	•	\$0	<u>\$0</u>	
	0	LS	\$0	<u>\$0</u>	
				. <u></u> <u>\$0</u>	
		Subtota	al Planting and Irrig		\$1,710,800
Section 7: Roadside Management a					
Vegetation Control Treatments	170	SQYD	\$135	<u>\$22,950</u>	
Replacement Planting	0	LS	\$30,000	<u>\$0</u>	
Pavement Beyond the Gore Area	6	EA	\$25,000	\$150,000	
Irrigation Crossovers	0	LF	\$55	<u>\$0</u>	
Errosion Control (Bonded Fiber	00	AODE	014.000	\$200 pag	
Matrix)	30	ACRE	\$11,000	\$330,000	
Slope Protection	0	LS	\$0	<u>\$0</u>	
Side Slopes/Embankment Slopes	0	LS	\$0	<u>\$0</u>	
Maintenance Vehicle Pullouts	6	EA	\$25,000	<u>\$150.000</u>	
Off-freeway Access (gates,					
stairways, etc.)	0	LS	\$0	<u>\$0</u>	•
Roadside Facilities (Vista Points,					
Transit, Park & Ride)	0	LS	\$0	<u>\$0</u>	
Relocating roadside facilities/features	0	LS	\$0	<u>\$0</u>	
racinties/reatties				<u>Ψ</u> Ω	
•	. 0	LS	\$0	<u>\$0</u>	
	0	LS	\$0	<u>\$0</u>	
	0	LS	S0	<u>\$0</u>	
		Subtotal Roadside I	Vanagement and S	afety Section:	\$652,950



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

TOTAL ROADSIDE ITEMS Sections 6 thru 7

\$2,363,750



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

III. ROADWAY ADDITIONS			•			
Section 8 - Minor Items					Item Cost	Section Cost
	\$15,715,162 (Subtotal Sections 1 thru 7)	x	<u>0.10</u> (5 to 10%)	=	\$1,571,516	_
				Mi	nor Items:	\$1,571,516
Section 9 - Roadway Mobilizat	<u>on</u>					
	\$5,632,146 (Subtotal Sections 1 thru 8)	X	<u>0.05</u> (5%)	=	\$281,607	
	1.		Roadw	vay Mo	obilization:	\$281,607
Section 10 - Supplemental Wo	rk & Contingencies					
Supplemental Work					,	
	\$17,286,679 (Subtotal Sections 1 thru 8)	х	<u>0.05</u> (5%)	=	\$864,334	<u>·</u>
Contingencies						
	\$17,286,679 (Subtotal Sections 1 thru 8)	Х	0.15 (**%)	=	\$2,593,002	<u> </u>
		Supple	mental Work 8	Cont	ingencies:	\$3,457,336
	TOTAL ROAD	WAY A	DDITIONS Se	ctions	8 thru 10:	\$5,310,459
			ТОТ	AL RO	DADWAY:	\$21,025,622
Estimate Prepared			(Subtotal Se	ctions	1 thru 10)	
	In (HMA,PCC,AB) (Print or Type Name)		Phone:	(559) 2	243-3811	05/08/15 (Date)
Estimate Checked	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					, ,
by: Ellery Elli	s (Print or Type Name)	•	Phone:	(559) 2	243-3811	10/06/16 (Date)

^{**}Use appropriate percentage per PDPM, Part 3 Chapter 20.

http://www.dot.ca.gov/hg/oppd/pdpm/pdpm.htm -pdpm



Dist-Co-Rte: 06-Fre-99

PW: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

II. STRUCTURE ITEMS

II. STROSTORE TIEMS				
		STRUCTURE		
	No. 1	No. 2	No. 3	
Bridge Name	 			
Structure Type	<u> </u>			
Width (out to out) - (ft)	0	0	0	
Span Length - (ft)	0	. 0	0	
Total Area - ft ²	0	0	0	
Footing Type (pile/spread)				
Cost Per ft ² (incl. 10% mobilization & 25% contingencies	\$0	\$0	\$0	
Total Cost for Structure	<u>\$0</u>	<u>\$0</u>	\$0	
Other	\$17,000,000	<u>\$0</u>	<u>\$0</u>	
* Add additional structures as necessary				
		SUBTOTAL STRUCTUR	RES ITEMS	\$17,000,000
Railroad Related Costs (Not incl. in R/W Est)			·	\$0
Namoda Nolatoa Oosto (Not mol. m 1 VVV Est)				Ψ.Ο
		TOTAL STRUCTUR	RES ITEMS	\$17,000,000
				
COMMENTS:		·		
-				
·				
Estimate Propared				
Estimate Prepared by: Ellery Ellis		Phone: (559)	243-3589	10/06/16
<u></u>	Type Name)		,	(Date)
`				, ,

(If appropriate, attach additional pages as backup)



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201,315

III. RIGHT OF WAY ITEMS

Acquisition, including excess lands and damages to remainder(s) and Goodwill	Current Values (Future Use)	Escalation Rates		Escalated Values*
	\$26,783,023	0.0%	_	\$0
Utility Relocation (State share)	\$0	0.0%	_	\$0
Clearance/Demolition	\$0	0.0%	_	\$0
RAP ·	\$0	0.0%	_	\$0
Title and Escrow Fees	\$0	0.0%		\$0
Construction Contract Work	\$0	0.0%	· -	\$0
TOTAL I	\$26,783,023 RIGHT OF WAY**			\$0
		ESCALI	ATED	VALUE*

ESCALLATED VALUE*

Date to which Values are Escalated: 0/0/00

Estimate Prepared

by:

Ellery Ellis

Phone: (559) 243-3589

10/06/16

(Date)

(If appropriate, attach additional pages and backup including Right of Way Data Sheet and Environmental Mitigation and Compliance Cost Estimate Sheet).

(Print or Type Name)

Form last revised December 12, 2006 Central Region Project Development Division Fechnical Support Branch

^{*} Escalated to assumed year of advertising.

^{**} Current total value for use on Sheet 1



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

PROJECT DESCRIPTION:

Limits:	in Fresno County at Ro	ute 99 and North Ave	nue interchange (PM 16.6/	17.6)		
Proposed Improvement: (Scope of Work)	Modified Interchange (*	Гуре L-9)				
Alternative:	No. 2					
	SUMMA	ARY OF PROJECT	COST ESTIMATE			
II.	ROADWAY ITEMS ROADSIDE ITEMS ROADWAY ADDITION	ONS	Sections 1 – 5 Sections 6 – 7 Sections 8 – 10	\$ \$	11,755,600 2,363,750 4,800,000	
	. ROADWAY . STRUCTURES	Total of Sections 1 -	10 shown above		\$ 	18,919,000 17,000,000
		SUBTOTAL CON	STRUCTION COSTS		*	35,919,000
TOTAL	RIGHT OF WAY ITE	EMS (Not Escalate	d)		\$	17,829,500
	TOTAL	PROJECT CAPIT	AL OUTLAY COSTS		\$	53,748,500
Reviewed by District Program Manag	er:					
			(Signature)		(1	Date)
Approved by Project Ma	mager:		(Signature)	· · · · · · · · · · · · · · · · · · ·	()	Date)
Phone Number:		 				F



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

I. ROADWAY ITEMS

Section 1 - Earthwork	Quantity	Unit	<u>Unit Price</u>	Item Cost	Section Cost
Roadway Excavation	16,000	CY	\$16	\$256,000	
Imported Borrow	2,500	CY	\$20	\$50,000	
Clearing & Grubbing	1	LS	\$20,000	\$20,000	
Develop Water Supply	0	LS	\$0	<u>\$0</u>	
				<u>\$0</u>	
				<u>\$0</u>	
•				<u>\$0</u>	
			Subto	otal Earthwork:	\$326,000
Section 2 - Pavement Structural Sec	tion*				
PCC Pvmt 0.85 Depth	3,800	CY	\$250	<u>\$950,000</u>	
PCC Pvmt Depth	0	CY	\$0	<u>\$0</u>	
HMA	29,844	Tons	\$75	\$2,238,300	
Lean Concrete Base	0	CY	\$0	<u>\$0</u>	
Cement-Treated Base	0	CY	\$0	<u>\$0</u>	
Aggregate Base	19,200	CY	\$100	\$1,920,000	
Treated Permeable Base	0 .	CY	\$0	<u>\$0</u>	
Aggregate Subbase	0	CY	\$0	<u>\$0</u>	
Minor Concrete (PCC Curb, Gutter, Sidewalk)	2,200	CY	\$370	\$814,000	
Edge Drains	0	FT	\$370	<u>\$014,000</u>	
Euge Dialiis		1 #		<u>\$0</u> \$0	
		 		\$0	
			Subtotal Stru	ctural Section:	\$5,922,300
Section 3 - Drainage					40,022,000
Large Drainage Facilities	0		\$0	<u>\$0</u>	
Storm Drains	1	ls	. \$250,000	<u>\$250,000</u>	
Pumping Plants	0		\$0	<u>\$0</u>	
Project Drainage	0		\$0	<u>\$0</u>	
(X-Drains, overside, etc.)					
CMP	0	YD	\$0	<u>\$0</u>	
RCP	0	YD	\$0	<u>\$0</u>	
			Sub	total Drainage:	\$250,000

^{*} Reference sketch showing typical pavement structural section elements of the roadway. Include (if available) T.I., R-Value and date when tests were performed.



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

TOTAL ROADWAY ITEMS Sections 1 thru 5 \$11,755,557

Program Code: 20.10.201.315

Section 4 - Specialty Items	Quantity	Unit	<u>Unit Price</u>	Item Cost	Section Cost
Retaining Walls	0		\$0	<u>\$0</u>	
Water pollution Control	1	LS	\$1,000,000	\$1,000,000	
Retaining Walls	0	LS	\$0	<u>\$0</u>	
Equipment/Animal Passes	0		\$0	<u>\$0</u>	
Highway Planting	0		\$0	<u>\$0</u>	
Replacement Planting	0		\$0	<u>\$0</u>	
Irrigation Modification	0		. \$0	· <u>\$0</u>	
Relocate Private Irrigation	0		\$0	<u>\$0</u>	
Erosion Control	1	LS	\$0	<u>\$0</u>	
Slope Protection	0 ·		\$0	<u>\$0</u>	
Construction Site BMPs	1	LS	\$200,000	\$200,000	
Haz Materials Mitigation	0	. ———	\$0	<u>\$0</u>	
Environmental Mitigation	0		\$0	<u>\$0</u>	
Resident Engineer Office	1	LS	\$12,000	<u>\$12,000</u>	
			Subtotal Specialty Items:		\$1,212,000
	•			· 	
Section 5 - Traffic Items					
Construction Area Signs	1	LS	\$100,000	<u>\$100,000</u>	
Traffic Handling (Includes Detour)	1 .	LS	\$160,096	<u>\$160,096</u>	
Portable Changeable Message			040,000	£40,000	
Sign	1	LS	\$40,000	\$40,000 \$335,564	
Roadside Signs	1	LS	\$775,561	<u>\$775,561</u>	
Pavement Delineation	1	<u>LS</u>	\$49,600	<u>\$49,600</u>	
Traffic Signal System	4	 EA	\$250,000	\$1,000,000	,
Ramp Metering System	4	EA	\$140,000	\$560,000	
CCTV System	2	EA	\$50,000	\$100,000	
Modify CMS System	. 2	EA	\$250,000	<u>\$500,000</u>	
Modify Highway Advisory Radio		LS	\$50,000	<u>\$50,000</u>	
System Traffic Count Station	6	EA	\$10,000	\$60,000	•
Fiber Optic Communication Infrastructure	1	LS	\$300,000	\$300,000	
Highway Lighting Sytem	1	LS	\$300,000	\$300,000	
	•		+242,030	72771777	
Remove Existing Electrical System	1	LS	\$50,000	<u>\$50,000</u>	
Fiber Optic System	0	LS	\$0	<u>\$0</u>	
		. —	Subtota	l Traffic Items:	\$4,045,257



Dist-Co-Rte: 06-Fre-99

PIVI: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6 EA: 06-0H240

Program Code: 20.10.201.315

II. ROADSIDE ITEMS

II. ROADSIDE ITEMS					
Section 6 Planting and Irrigation	Quantity	Unit	<u>Unit Price</u>	Item Cost	Section Cost
Highway Planting	30	ACRES	\$55,000	<u>\$1,650,000</u>	
Replacement Planting	1	LS	\$30,000	\$30,000	
Irrigation Crossover	560	EA	\$55	<u>\$30,800</u>	
Vegetation Control Treatment	0		\$0	<u>\$0</u>	
•	0		\$0	<u>\$0</u>	
	0		\$0	<u>\$0</u>	
	0	LS	\$0	<u>\$0</u>	
	0		\$0	<u>\$0</u>	
	0	LS	\$0	<u>\$0</u>	
				<u>\$0</u>	
		Subto	tal Planting and Irrig	gation Section:	\$1,710,800
Section 7: Roadside Management a	nd Safety Section			•	
Vegetation Control Treatments	170	SQYD	\$135	<u>\$22,950</u>	
Replacement Planting	0	LS	\$30,000	<u>\$0</u>	,
Pavement Beyond the Gore Area	. 6	EA	\$25,000	<u>\$150,000</u>	
Irrigation Crossovers	0	LF	\$55	\$0	
Errosion Control (Bonded Fiber Matrix)	30	ACRE	\$11,000	<u>\$330,000</u>	
Slope Protection	0	LS	\$0	<u>\$0</u>	
Side Slopes/Embankment Slopes	0	LS	 \$0	<u>\$0</u>	
Maintenance Vehicle Pullouts	6	EA	\$25,000	<u>\$150,000</u>	
		.	Ψ20,000	<u>\$150,000</u>	
Off-freeway Access (gates, stairways, etc.)	0	LS	\$0	<u>\$0</u>	
Stanways, Gto.	.		φυ	<u>Φ0</u>	
Roadside Facilities (Vista Points,	•				
Transit, Park & Ride)	0	LS	\$0	<u>\$0</u>	
Relocating roadside					
facilities/features	0	LS	\$0	<u>\$0</u>	
,	0	LS	\$0	ውስ	
•	0	LS	\$0 \$0	<u>\$0</u>	
				<u>\$0</u> <u>\$0</u>	1
	0	LS	411	C(1)	



Dist-Co-Rte: 06-Fre-99

PIVI: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

TOTAL ROADSIDE ITEMS Sections 6 thru 7

\$2,363,750



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

III. ROADWAY ADI	DITIONS					
Section 8 - Minor Ite	<u>ems</u>				Item Cost	Section Cost
	\$14,119,307	Х	<u>0.10</u>	=	\$1,411,931	
	(Subtotal Sections 1 thru 7)		(5 to 10%)			
				M	linor Items:	\$1,411,931
						ψ1,111,001
Section 9 - Roadwa	y Mobilization					
	\$5,632,146	х	<u>0.05</u> ·	=	\$281,607	
	(Subtotal Sections 1 thru 8)		(5%)			
			Roady	vay M	obilization:	\$281,607
Section 10 - Supple	mental Work & Contingencies					
Supplemental Work						
Supplemental Work	\$15,531,238	X	<u>0.05</u>	=	\$776,562	
	(Subtotal Sections 1 thru 8)	^	(5%)		Φ110,002	
	,					
Contingencies						
	\$15,531,238	х	<u>0.15</u>	=	\$2,329,686	
	(Subtotal Sections 1 thru 8)		(**%)			
		Cumm		0 0	flanan an ala	#0.400.040
		Supp	lemental Work &	s. Con	ungencies:	\$3,106,248
	TOTAL ROAE	YAWC	ADDITIONS Se	ections	s 8 thru 10:	\$4,799,786
			TO	TAL R	OADWAY:	\$18,919,093
			(Subtotal Se	ections	s 1 thru 10)	
Estimate Prepared	A = d= 1 to (118 (A DOC AD)		D) /	==0\ 0	40.0044	05/00/45
by:	Andrew Un (HMA,PCC,AB) (Print or Type Name)		Phone: <u>(</u>	559) 2	43-3811	05/08/15 (Date)
Estimate Checked	(Fill of Type Name)					(Date)
by:	Ellery Ellis		Phone: (559) 2	43-3811	10/06/16
	(Print or Type Name)			-	· · · · · · · · · · · · · · · · · · ·	(Date)
						•

^{**}Use appropriate percentage per PDPM, Part 3 Chapter 20.

http://www.dot.ca.gov/hg/oppd/pdpm/pdpm.htm -pdpm



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

II. STRUCTURE ITEMS

	,		STRUCTURE		
		No. 1	No. 2	No. 3	
Bridge Name					
Structure Type					
Width (out to out)) - (ft)	0	.0	0	
Span Length - (ft))	0	0	0	
Total Area - ft ²		0	0	0	
Footing Type (pile	e/spread)		<u> </u>		
Cost Per ft ² (incl. contingencies	10% mobilization & 25%	\$0	\$0	\$0	
Total Cost for Stru	ucture	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	
Other		<u>\$17,000,000</u>	<u>\$0</u>	<u>\$0</u>	
					r
* Add additional s	tructures as necessary				
	,		SUBTOTAL STRUCT	URES ITEMS	\$17,000,000
				-	
Railroad Related	Costs (Not incl. in R/W Est)				\$0
			TOTAL STRUCT	URES ITEMS	\$17,000,000
COMMENTS:					
_					
					1
					·
	•				
				_ 	
Estimate Prepare					
by:	Ellery Ellis	T N	Phone: <u>(559</u>	9) 243-3589	10/06/16
	(Print or	Type Name)			(Date)

(If appropriate, attach additional pages as backup)



III. RIGHT OF WAY ITEMS

Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

Acquisition, including excess lands and damages to remainder(s) and Goodwill	Current Values (Future Use)	Escalation Rates		Escalated Values*
	\$17,829,505	0.0%	_	\$0
Utility Relocation (State share)	\$0	0.0%	_	. \$0
Clearance/Demolition	\$0	0.0%	_	\$0
RAP	\$0	0.0%	_	\$0
Title and Escrow Fees	\$0	0.0%	_	\$0
Construction Contract Work	\$0	0.0%	-	\$0
	\$17,829,505			
TOTAL	RIGHT OF WAY**			\$0
		ESCAL	LATE	VALUE*

Date to which Values are Escalated: 0/0/00

Estimate Prepared

by:

Ellery Ellis

Phone: (559) 243-3589

10/06/16

(Date)

(If appropriate, attach additional pages and backup including Right of Way Data Sheet and Environmental Mitigation and Compliance Cost Estimate Sheet).

(Print or Type Name)

Form last revised December 12, 2006 Central Region Project Development Division Cechnical Support Branch

^{*} Escalated to assumed year of advertising.

^{**} Current total value for use on Sheet 1



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240 Program Code: 20.10.201.315

PROJECT DESCRIPTION:

Limits: In Fresno County at Ro	oute 99 and North Ave	nue Interchange (PM 16.6/17.	5)		
Proposed Modified Interchange (Improvement: (Scope of Work)	Type L-2)		.,,		
(esope of troing	·				
Alternative: No. 3					
SUMM	ARY OF PROJECT	COST ESTIMATE			
I. ROADWAY ITEMS		Sections 1 -5	\$	12,121,500	
II. ROADSIDE ITEMS		Sections 6 -7	\$	2,363,750	
III. ROADWAY ADDITI	ONS	Sections 8 -10	\$	4,917,000	
TOTAL ROADWAY TOTAL STRUCTURES	Total of Sections 1 -	10 shown above		\$	19,402,000 18,720,980
TOTAL STRUCTURES				Ψ	10,720,900
	SUBTOTAL CONS	STRUCTION COSTS		\$	38,122,980
TOTAL RIGHT OF WAY IT	EMS (Not Escalated	1)		\$	18,209,700
TOTAL	L PROJECT CAPIT	AL OUTLAY COSTS		\$	56,332,680
Reviewed by District Program Manager:					
		(Signature)		(1	Date)
Annual of his Puris of BR					
Approved by Project Manager:		(Signature)		(Date)
Phone Number:					Form revised 8/21/07



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6 EA: 06-0H240

Program Code: 20.10.201.315

I. ROADWAY ITEMS

Section 1 - Earthwork	Quantity	Unit	<u>Unit Price</u>	Item Cost	Section Cost
Roadway Excavation	33,000	CY	\$16	\$528,000	
Imported Borrow	2,500	CY	\$20	\$50,00 <u>0</u>	
Clearing & Grubbing	1	LS	\$20,000	\$20,000	
Develop Water Supply	0	LS	\$0	<u>\$0</u>	
				<u>\$0</u>	
				<u>\$0</u>	
				<u>\$0</u>	
			Subto	tal Earthwork:	\$598,000
Section 2 - Pavement Structural Sec	tion*				
PCC Pvmt 0.85 Depth	1,872	CY	\$250	\$468,000	
PCC Pvmt Depth	.0	CY	\$0	<u>\$0</u>	
НМА	31,750	Tons	\$75	\$2,381,250	
Lean Concrete Base	0	CY	\$0	<u>\$0</u>	
Cement-Treated Base	0	CY	\$0	<u>\$0</u>	
Aggregate Base	23,530	CY	\$100	\$2,353,000	
Treated Permeable Base	0	CY	\$0	<u>\$0</u>	
Aggregate Subbase	0	CY	\$0	<u>\$0</u>	
Minor Concrete (PCC Curb,Gutter, Sidewalk)	2,200	CY	\$370	<u>\$814,000</u>	
Edge Drains	0	FT	 \$0	<u>\$0</u>	
			\$0	\$0	
				<u>\$0</u>	
			Subtotal Struc	ctural Section:	\$6,016,250
Section 3 - Drainage					
Large Drainage Facilities	0		\$0	<u>\$0</u>	
Storm Drains	1	Is	\$250,000	<u>\$250,000</u>	
Pumping Plants	0		\$0	<u>\$0</u>	
Project Drainage	0		\$0	<u>\$0</u>	
(X-Drains, overside, etc.)					
CMP	0	YD	\$0	<u>\$0</u>	
RCP	0	YD	\$0	<u>\$0</u>	
			Subto	otal Drainage:	\$250,000

^{*} Reference sketch showing typical pavement structural section elements of the roadway. Include (if available) T.I., R-Value and date when tests were performed.



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

TOTAL ROADWAY ITEMS Sections 1 thru 5 \$12,121,507

Program Code: 20.10.201.315

Section 4 - Specialty Items	Quantity	Unit	<u>Unit Price</u>	Item Cost	Section Cost
Retaining Walls	0		\$0	<u>\$0</u>	
Water pollution Control	1	LS	\$1,000,000	\$1,000,000	
Retaining Walls	0	LS	\$0	<u>\$0</u>	
Equipment/Animal Passes	0		\$0	<u>\$0</u>	
Highway Planting	0		\$0	<u>\$0</u>	
Replacement Planting	0		\$0	<u>\$0</u>	
Irrigation Modification	0		\$0	<u>\$0</u>	
Relocate Private Irrigation	0		\$0	<u>\$0</u>	
Erosion Control	1	LS	\$0	<u>\$0</u>	
Slope Protection	0		\$0	<u>\$0</u>	
Construction Site BMPs	1	LS	\$200,000	\$200,000	•
Haz Materials Mitigation	0		\$0	<u>\$0</u>	
Environmental Mitigation	0		\$0	\$0	
Resident Engineer Office	1	LS	\$12,000	<u>\$12,000</u>	
			Subtotal Sp	ecialty Items:	\$1,212,000
Section 5 - Traffic Items					
Construction Area Signs	1	LS	\$100,000	\$100,000	
Traffic Handling (Includes Detour)	.1	LS	\$160,096	<u>\$160,096</u>	
Portable Changeable Message Sign	1	LS	\$40,000	640,000	
Roadside Signs		LS		\$40,000	
Pavement Delineation	1	LS	\$775,561	<u>\$775,561</u>	
		LO	\$49,600	<u>\$49,600</u>	
Traffic Signal System	4	EA	\$250,000	\$1,000,000	
Ramp Metering System	4	EA	\$140,000	\$560,000	
CCTV System	2	EA	\$50,000	\$100,000	
Modify CMS System	2	EA	\$250,000	<u>\$500,000</u>	
Modify Highway Advisory Radio System	1	LS	\$50,000	<u>\$50,000</u>	
Traffic Count Station	6	EA	\$10,000	\$60,000	
Fiber Optic Communication - Infrastructure	1	LS	\$300,000	\$300,000	
Highway Lighting Sytem	<u> </u>	LS	\$300,000	\$300,000	
				<u> 2,000,000</u>	
Remove Existing Electrical System	1	LS	\$50,000	\$50,000	
Fiber Optic System	0	LS	\$0	<u>\$0</u>	
			Subtotal	Traffic Items:	\$4,045,257



Dist-Co-Rte: 06-Fre-99

PIVI: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6 EA: 06-0H240

Program Code: 20.10.201.315

II. ROADSIDE ITEMS

II. ROADSIDE ITEMS					
Section 6 Planting and Irrigation	Quantity	Unit	<u>Unit Price</u>	Item Cost	Section Cost
Highway Planting	30	ACRES	\$55,000	\$1,650,000	
Replacement Planting	1	LS	\$30,000	\$30,000	
Irrigation Crossover	560	EA	\$55	\$30,800	
Vegetation Control Treatment	0	·	\$0	<u>\$0</u>	
	0		\$0	<u>\$0</u>	
	0	· 	\$0	<u>\$0</u>	•
	0	LS	\$0	<u>\$0</u>	
	0		\$0	<u>\$0</u>	
	0	LS	\$0	<u>\$0</u>	
				<u>\$0</u>	
		Subto	tal Planting and Irrig	gation Section:	\$1,710,800
Section 7: Roadside Management a					
Vegetation Control Treatments	170	SQYD	<u>\$135</u>	\$22,950	
Replacement Planting	0	LS	\$30,000	<u>\$0</u>	
Pavement Beyond the Gore Area	6	EA	\$25,000	<u>\$150,000</u>	
Irrigation Crossovers	0	LF	\$55	<u>\$0</u>	
Errosion Control (Bonded Fiber Matrix)	30	ACRE	\$11,000	\$330,00 <u>0</u>	•
Slope Protection	0	LS	\$0	<u>\$0</u>	
				<u>~~</u>	
Side Slopes/Embankment Slopes	0	LS	\$0	<u>\$0</u>	
Maintenance Vehicle Pullouts	6	EA	\$25,000	\$150,000	
Off-freeway Access (gates,					
stairways, etc.)	0	LS	\$0	<u>\$0</u>	
Roadside Facilities (Vista Points,					
Transit, Park & Ride)	0	LS	\$0	<u>\$0</u>	
D. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.					
Relocating roadside facilities/features	0	LS	\$0	<u>\$0</u>	
			, -		
•	0	LS	<u> </u>	<u>\$0</u>	
	0	LS	\$0	<u>\$0</u>	
	0	LS	. \$0	<u>\$0</u>	
		Subtotal Roadside	Management and S	Safety Section:	\$652,950



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

TOTAL ROADSIDE ITEMS Sections 6 thru 7 \$2,363,750



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6 EA: 06-0H240

Program Code: 20.10.201.315

III. ROADWAY ADD Section 8 - Minor Ite					Item Cost	Section Cost
	\$14,485,257 (Subtotal Sections 1 thru 7)	х	0.10 (5 to 10%)	=	\$1,448,526	
				М	inor Items:	\$1,448,526
Section 9 - Roadwa	y <u>Mobilization</u>					
	\$5,632,146 (Subtotal Sections 1 thru 8)	x	<u>0.05</u> (5%)	=	\$281,607	 .
			Roady	way M	obilization:	\$281,607
Section 10 - Supple	mental Work & Contingencies					
Supplemental Work						
, .	\$15,933,783 (Subtotal Sections 1 thru 8)	x	<u>0.05</u> (5%)	=	\$796,689	
Contingencies						
	\$15,933,783 (Subtotal Sections 1 thru 8)	х	<u>0.15</u> (**%)	=	\$2,390,067	
		Suppl	emental Work &	& Cont	ingencies:	\$3,186,757
	TOTAL ROAE	YAW	ADDITIONS Se	ections	8 thru 10:	\$4,916,890
					OADWAY:	\$19,402,147
Estimate Prepared	•		(Subtotal Se	ections	1 thru 10)	
by:	Andrew Un (HMA,PCC,AB) (Print or Type Name)		Phone: <u>(</u>	559) 24	13-3811	05/08/15 (Date)
Estimate Checked by:	Ellery Ellis (Print or Type Name)		Phone: <u>(</u>	559) 24	13-3811	10/06/16
	(i into Type Name)					(Date)

^{**}Use appropriate percentage per PDPM, Part 3 Chapter 20.

http://www.dot.ca.gov/hg/oppd/pdpm/pdpm.htm -pdpm



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

II. STRUCTURE ITEMS

(Print or Typ	e Name)			(Date)
py: Ellery Ellis		Phone: (559)	243-3589	10/06/16
Estimate Prepared		,		
COMMENTS:				 -
		TOTAL STRUCTO	TEO ITEIVIO	φ10,720,980
		TOTAL STRUCTU	RESITEMS	\$18,720,980
Railroad Related Costs (Not incl. in R/W Est)				\$0
•		SUBTOTAL STRUCTU	LIEO HEINIO	\$18,720,980
Add additional structures as necessary		CHRTOTAL CTRUCTI	DEC ITEMS	\$40.700.000
				
Other	\$18,720,980	<u>\$0</u> \$0	<u>\$0</u> \$0	
contingencies Fotal Cost for Structure	\$0 \$0	\$0 <u>\$0</u>	\$0	
Cost Per ft² (incl. 10% mobilization & 25%		-		
Footing Type (pile/spread)	0	0	0	
Span Length - (ft) Fotal Area - ft ²	0	0	0	
Vidth (out to out) - (ft)	0	0	0	
Structure Type				
Bridge Name	No. 1	No. 2	No. 3	

(If appropriate, attach additional pages as backup)



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240 Program Code: 20.10.201.315

III. RIGHT OF WAY ITEMS

Acquisition, including excess lands and damages to remainder(s) and Goodwill	Current Values (Future Use)	Escalation Rates		Escalated Values*
•	\$28,122,174	0.0%	_	\$0
Utility Relocation (State share)	\$0	0.0%	_	\$0
Clearance/Demolition	\$0	0.0%	_	\$0
RAP	\$0	0.0%	_	\$0
Title and Escrow Fees	\$0	0.0%	-	\$0
Construction Contract Work	\$0	0.0%	_	\$0
	\$18,209,676			
TOTAL I	RIGHT OF WAY**			\$0

ESCALLATED VALUE*

Date to which Values are Escalated: 0/0/00

Estimate Prepared

by:

Ellery Ellis

Phone: (559) 243-3589

10/06/16

(Print or Type Name)

(Date)

(If appropriate, attach additional pages and backup including Right of Way Data Sheet and Environmental Mitigation and Compliance Cost Estimate Sheet).

Form last revised December 12, 2006 Central Region Project Development Division Fechnical Support Branch

^{*} Escalated to assumed year of advertising.

^{**} Current total value for use on Sheet 1



Dist-Co-Rte: 06-Fre-99

PM. 16.6/17.6

EA: 06-0H240

Form revised 8/21/07

Program Code: 20.10.201.315

PROJECT DESCRIPTION:

Limits:	In Fresno County at	Route 99 and North	Avenue Interchange (PM	16.6/17.6)		
Proposed Improvement: (Scope of Work)	Diverging Diamond I	nterchange (DDI)				
Alternative:	No. 4					
	ROADWAY ITEM	S	CT COST ESTIMATE Sections 1 - 5	\$	14,541,500	
	ROADSIDE ITEMS ROADWAY ADDI		Sections 6 -7 Sections 8 -10	\$ 	2,363,750 5,691,000	
	ROADWAY STRUCTURES	Total of Sections 1	- 10 shown above		\$	22,596,000
		SUBTOTAL CON	NSTRUCTION COSTS		\$	35,596,000
TOTAL	RIGHT OF WAY I	TEMS (Not Escal	ated)		\$ 	17,210,000
	TOTA	_ PROJECT CAP	ITAĻ OUTLAY COSTS		\$	52,806,000
Reviewed by District Program Manag	er:			N.		
			(Signature)		1)	Date)
Approved by Project Ma	nager:					
Phone Number:			(Signature)		[]	Date)

Page 1 of 9



Dist-Co-Rte. 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

I. ROADWAY ITEMS

Roadway Excavation 33,000 CY \$16 \$528,000	Section 1 - Earthwork	Quantity	Unit	Unit Price	Item Cost	Section Cost
Clearing & Grubbing	Roadway Excavation	33,000	CY	\$16	<u>\$528,000</u>	
Develop Water Supply 0	Imported Borrow	2,500	CY.	\$20	<u>\$50,000</u>	
Section 2 - Pavement Structural Section* Subtotal Earthwork: \$598,000	Clearing & Grubbing	1	LS	\$20,000	<u>\$20,000</u>	
Section 2 - Pavement Structural Section* Subtotal Earthwork: S598,000	Develop Water Supply	0	LS	\$0	<u>\$0</u>	
Subtotal Earthwork: \$598,000 Section 2 - Pavement Structural Section* PCC Pvmt 0.85 Depth 1,872 CY \$250 \$468,000 PCC Pvmt Depth 0 CY \$0 \$0 \$0 \$0 But Park \$0 CY \$0 \$0 \$0 \$0 Purple Park Purpl					<u>\$0</u>	
Subtotal Earthwork: \$598,000 Section 2 - Pavement Structural Section* PCC Pvmt					<u>\$0</u>	
PCC Pvmt 0.85 Depth 1,872 CY \$250 \$468,000					<u>\$0</u>	
PCC Pvmt 0.85 Depth 1,872 CY \$250 \$468,000 PCC Pvmt Depth 0 CY \$0 \$0 HMA 29,844 Tons \$75 \$2,238,300 Lean Concrete Base 0 CY \$0 \$0 Cement-Treated Base 0 CY \$100 \$1,915,900 Aggregate Base 19,159 CY \$100 \$1,915,900 Treated Permeable Base 0 CY \$0 \$0 Aggregate Subbase 0 CY \$0 \$0 Minor Concrete (PCC C \$0 \$0 Gurb, Gutter, Sidewalk) 2,200 CY \$370 \$814,000 Edge Drains 0 FT \$0 \$0 Section 3 - Drainage Subtotal Structural Section: \$5,436,200 Section 3 - Drainage 1 is \$250,000 \$250,000 Storm Drains 1 is \$250,000 \$0 Pumping Plants 0 \$0 \$0 </td <td></td> <td></td> <td></td> <td>Subto</td> <td>tal Earthwork:</td> <td>\$598,000</td>				Subto	tal Earthwork:	\$598,000
PCC Pvmt Depth 0 CY \$0 \$0 HMA 29,844 Tons \$75 \$2,238,300 Lean Concrete Base 0 CY \$0 \$0 Cement-Treated Base 0 CY \$0 \$0 Aggregate Base 19,159 CY \$100 \$1,915,900 Treated Permeable Base 0 CY \$0 \$0 Aggregate Subbase 0 CY \$0 \$0 Minor Concrete (PCC CV \$370 \$814,000 Edge Drains 0 FT \$0 \$0 Edge Drains 0 FT \$0 \$0 Subtotal Structural Section: \$5,436,200 \$5 Section 3 - Drainage S \$0 \$0 Large Drainage Facilities 0 \$0 \$0 \$0 Storm Drains 1 Is \$250,000 \$0 Pumping Plants 0 \$0 \$0 \$0 (X-Drains, overside, etc.)	Section 2 - Pavement Structural S	Section*				
HMA 29,844 Tons \$75 \$2,238,300 Lean Concrete Base 0 CY \$0 \$0 Cement-Treated Base 0 CY \$0 \$0 Aggregate Base 19,159 CY \$100 \$1,915,900 Treated Permeable Base 0 CY \$0 \$0 Aggregate Subbase 0 CY \$0 \$0 Minor Concrete (PCC Curb, Gutter, Sidewalk) 2,200 CY \$370 \$814,000 Edge Drains 0 FT \$0 \$0 Edge Drains 0 FT \$0 \$0 Subtotal Structural Section: \$5,436,200 Section 3 - Drainage Subtotal Structural Section: \$5,436,200 Storm Drains 1 Is \$250,000 \$250,000 Pumping Plants 0 \$0 \$0 \$0 Project Drainage 0 \$0 \$0 \$0 (X-Drains, overside, etc.) So \$0 \$0	PCC Pvmt 0.85 Depth	1,872	CY	\$250	\$468,000	
Lean Concrete Base 0 CY \$0 \$0 Cement-Treated Base 0 CY \$0 \$0 Aggregate Base 19.159 CY \$100 \$1.915,900 Treated Permeable Base 0 CY \$0 \$0 Aggregate Subbase 0 CY \$0 \$0 Minor Concrete (PCC Curb, Gutter, Sidewalk) 2,200 CY \$370 \$814,000 Edge Drains 0 FT \$0 \$0 Subtotal Structural Section: \$5,436,200 Section 3 - Drainage Subtotal Structural Section: \$5,436,200 Subtotal Stru	PCC Pvmt Depth	0	CY	. \$0	<u>\$0</u>	
Cement-Treated Base 0 CY \$0 \$0 Aggregate Base 19.159 CY \$100 \$1.915.900 Treated Permeable Base 0 CY \$0 \$0 Aggregate Subbase 0 CY \$0 \$0 Minor Concrete (PCC CUrb, Gutter, Sidewalk) 2,200 CY \$370 \$814,000 Edge Drains 0 FT \$0 \$0 \$0 \$0 \$0 \$0 Subtotal Structural Section: \$5,436,200 Section 3 - Drainage \$0 \$0 \$0 Large Drainage Facilities 0 \$0 \$0 \$0 Storm Drains 1 Is \$250,000 \$0 Pumping Plants 0 \$0 \$0 \$0 Project Drainage 0 \$0 \$0 \$0 (X-Drains, overside, etc.) \$0 \$0 \$0	HMA	29,844	Tons	\$75	\$2,238,300	
Aggregate Base 19,159 CY \$100 \$1,915,900 Treated Permeable Base 0 CY \$0 \$0 Aggregate Subbase 0 CY \$0 \$0 Minor Concrete (PCC Curb,Gutter, Sidewalk) 2,200 CY \$370 \$814,000 Edge Drains 0 FT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 Section 3 - Drainage Subtotal Structural Section: \$5,436,200 Section 3 - Drainage \$0 \$0 \$0 Storm Drains 1 Is \$250,000 \$250,000 Pumping Plants 0 \$0 \$0 \$0 Project Drainage 0 \$0 \$0 \$0 (X-Drains, overside, etc.) \$0 \$0 \$0	Lean Concrete Base	0	CY	\$0	<u>\$0</u>	
Treated Permeable Base 0 CY \$0 \$0 Aggregate Subbase 0 CY \$0 \$0 Minor Concrete (PCC Curb, Gutter, Sidewalk) 2,200 CY \$370 \$814,000 Edge Drains 0 FT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$5,436,200 Section 3 - Drainage So \$0 \$5,436,200 Storm Drains 1 Is \$250,000 \$250,000 Pumping Plants 0 \$0 \$0 \$0 Project Drainage 0 \$0 \$0 \$0 (X-Drains, overside, etc.) \$0 \$0 \$0	Cement-Treated Base	0	CY	\$0	<u>\$0</u>	
Aggregate Subbase 0 CY \$0 \$0 Minor Concrete (PCC Curb, Gutter, Sidewalk) 2,200 CY \$370 \$814,000 Edge Drains 0 FT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 Section 3 - Drainage Subtotal Structural Section: \$5,436,200 Section 3 - Drainage \$0 \$0 \$0 Storm Drains 1 Is \$250,000 \$250,000 Pumping Plants 0 \$0 \$0 \$0 Project Drainage 0 \$0 \$0 \$0 (X-Drains, overside, etc.) \$0 \$0 \$0	Aggregate Base	19,159	CY	\$100	<u>\$1,915,900</u>	
Minor Concrete (PCC Curb, Gutter, Sidewalk) 2,200 CY \$370 \$814,000 Edge Drains 0 FT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$5,436,200 Section 3 - Drainage Large Drainage Facilities 0 \$0 \$0 Storm Drains 1 Is \$250,000 Pumping Plants 0 \$0 \$0 Project Drainage 0 \$0 \$0 (X-Drains, overside, etc.) \$0 \$0 \$0	Treated Permeable Base	0	CY	\$0	<u>\$0</u>	
Curb, Gutter, Sidewalk) 2,200 CY \$370 \$814,000 Edge Drains 0 FT \$0 \$0 \$0 \$0 \$0 \$0 Section 3 - Drainage Section 3 - Drainage Large Drainage Facilities 0 \$0 \$0 Storm Drains 1 Is \$250,000 \$250,000 Pumping Plants 0 \$0 \$0 \$0 Project Drainage 0 \$0 \$0 \$0 (X-Drains, overside, etc.) 0 \$0 \$0 \$0	Aggregate Subbase	0	CY	\$0	<u>\$0</u>	
Edge Drains 0 FT \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$5,436,200 Section 3 - Drainage Large Drainage Facilities 0 \$0 \$0 Storm Drains 1 Is \$250,000 \$0 Pumping Plants 0 \$0 \$0 \$0 Project Drainage 0 \$0 \$0 \$0 (X-Drains, overside, etc.) \$0 \$0 \$0		2.200	CV	P270	0014 000	
Section 3 - Drainage \$0 \$0 \$5,436,200 Large Drainage Facilities 0 \$0						
Section 3 - Drainage \$5,436,200 Large Drainage Facilities 0 \$0 \$0 Storm Drains 1 Is \$250,000 \$250,000 Pumping Plants 0 \$0 \$0 \$0 Project Drainage 0 \$0 \$0 \$0 (X-Drains, overside, etc.) \$0 \$0 \$0 \$0	Eage Drains		<u> </u>			
Subtotal Structural Section: \$5,436,200 Section 3 - Drainage \$0 <						
Section 3 - Drainage Large Drainage Facilities 0 \$0 \$0 Storm Drains 1 Is \$250,000 Pumping Plants 0 \$0 \$0 Project Drainage 0 \$0 \$0 (X-Drains, overside, etc.) \$0 \$0 \$0				Subtotal Stru		\$5.436.200
Large Drainage Facilities 0 \$0 \$0 Storm Drains 1 Is \$250,000 \$250,000 Pumping Plants 0 \$0 \$0 Project Drainage 0 \$0 \$0 (X-Drains, overside, etc.) \$0 \$0	Section 2 Drainage			Subtotal Stru	ciurai Secilon.	φ0,400,200
Storm Drains 1 Is \$250,000 Pumping Plants 0 \$0 \$0 Project Drainage 0 \$0 \$0 (X-Drains, overside, etc.) \$0 \$0 \$0		0		90	© ∩	
Pumping Plants 0 \$0 \$0 Project Drainage 0 \$0 \$0 (X-Drains, overside, etc.) \$0 \$0			le			
Project Drainage 0 \$0 \$0 \$0 (X-Drains, overside, etc.)			15			
(X-Drains, overside, etc.)	· -		<u></u>			
					<u> </u>	
(IMP 80 SI	CMP	0	YD	\$0	<u>\$0</u>	
RCP 0 YD \$0 \$0						
Subtotal Drainage: \$250,000						\$250,000

^{*} Reference sketch showing typical pavement structural section elements of the roadway. Include (if available) T.I., R-Value and date when tests were performed.



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6 EA: 06-0H240

Program Code: 20.10.201.315

Section 4 - Specialty Items	Quantity	Unit	<u>Unit Price</u>	Item Cost	Section Cost
Retaining Walls	1		\$3,000,000	\$3,000,000	
Water pollution Control	1	LS	\$1,000,000	\$1,000,000	
Retaining Walls	0	LS	\$0	<u>\$0</u>	
Equipment/Animal Passes	0		\$0	<u>\$0</u>	
Highway Planting	0		\$0	<u>\$0</u>	
Replacement Planting	0		\$0	<u>\$0</u>	
Irrigation Modification	0		\$0	. <u>\$0</u>	
Relocate Private Irrigation	. 0		\$0	<u>\$0</u>	
Erosion Control	1	LS	\$0	<u>\$0</u>	
Slope Protection	. 0		\$0	<u>\$0</u>	·
Construction Site BMPs	. 1	LS	\$200,000	\$200,000	
Haz Materials Mitigation	0		\$0	<u>\$0</u>	
Environmental Mitigation	0		\$0	<u>\$0</u>	
Resident Engineer Office	1	LS	\$12,000	<u>\$12,000</u>	
. •			Subtotal Sp	ecialty Items:	\$4,212,000
			•		
Section 5 - Traffic Items					
Construction Area Signs	1	LS`	\$100,000	\$100,000	•
Traffic Handling (Includes Detour)	1	LS	\$160,096	<u>\$160,096</u>	
Portable Changeable Message			·		
Sign	1	LS	\$40,000	<u>\$40,000</u>	-
Roadside Signs	1	LS	\$775,561	<u>\$775,561</u>	
Pavement Delineation -	1	LS	\$49,600	<u>\$49,600</u>	
- Traffic Signal System	4	EA	\$250,000	\$1,000,000	
Ramp Metering System	4	EA	\$140,000	<u>\$560,000</u>	
CCTV System	2	EA	\$50,000	<u>\$100,000</u>	
Modify CMS System	2	EA	\$250,000	\$500,000	
Modify Highway Advisory Radio System	 1	LS .	\$50,000	<u>\$50,000</u>	
Traffic Count Station	6.	EA	\$10,000	\$60,000	
Fiber Optic Communication Infrastructure	1	LS	\$300,000	\$300,000	
Highway Lighting Sytem	1	LS	\$300,000	\$300,000	
Remove Existing Electrical	· · · · · · · · · · · · · · · · · · ·		\$300,000	<u>\$300,000</u>	
System	1	LS	\$50,000	<u>\$50,000</u>	
Fiber Optic System	0	LS	\$0	<u>\$0</u>	
-			Subtotal	Traffic Items:	\$4,045,257
					

TOTAL ROADWAY ITEMS Sections 1 thru 5 \$14,541,457



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315



Dist-Co-Rte: 06-Fre-99

PIVI: 16.6/17.6 EA: 06-0H240

Program Code. 20.10.201.315

II. ROADSIDE ITEMS

Section 6 Planting and Irrigation	Quantity	Unit	Unit Price	Item Cost	Section Cost
Highway Planting	30	ACRES	\$55,000	\$1,650,000	
Replacement Planting	1	. LS	\$30,000	\$30,000	
Irrigation Crossover	560	EA	\$55	\$30,800	
Vegetation Control Treatment	0		\$0	<u>\$0</u>	
_	0		\$0	<u>\$0</u>	
_	· <u></u>				
_	0	<u></u>	\$0	<u>\$0</u>	
_	0	LS	\$0	<u>\$0</u>	
	0		\$0	<u>\$0</u>	
_	0	LS	\$0	<u>\$0</u>	
_				<u>\$0</u>	
		Subto	tal Planting and Irrig	gation Section:	\$1,710,800
Section 7: Roadside Management a	and Safety Section				
Vegetation Control Treatments	170	SQYD	\$135	<u>\$22,950</u>	
Replacement Planting	0	LS	\$30,000	<u>\$0</u>	
Pavement Beyond the Gore Area	0	F A	005.000	0450.000	
Irrigation Crossovers	<u>6</u> 0	EA LF	\$25,000	\$150,000	
-		<u></u>	<u> \$55</u>	<u>\$0</u>	
Errosion Control (Bonded Fiber Matrix)	30	ACRE	\$11,000	\$330,000	
Slope Protection	0	LS	\$0	<u>\$0</u>	
_					
Side Slopes/Embankment Slopes	0	LS	\$0	· <u>\$0</u>	
Maintenance Vehicle Pullouts	6	EA	\$25,000	<u>\$150,000</u>	
Off-freeway Access (gates,	· · · · · · · · · · · · · · · · · · ·				
stairways, etc.)	0	LS	\$0	<u>\$0</u>	
_					
Roadside Facilities (Vista Points, Transit, Park & Ride)	0	LS	\$0	. <u>\$0</u>	
-				. <u>90</u>	
Relocating roadside					
facilities/features -	0	LS	\$0	<u>\$0</u>	
	0	LS	\$0	<u>\$0</u>	
-	0	LS	\$0	<u>\$0</u> <u>\$0</u>	
<u> </u>	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
	.0	LS	\$0	<u>\$0</u>	



Dist-Co-Rte: 06-Fre-99

PW: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

TOTAL ROADSIDE ITEMS Sections 6 thru 7

\$2,363,750



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

III. ROADWAY ADDITIONS						
Section 8 - Minor Items					Item Cost	Section Cost
	\$16,905,207	Х	0.10	=	\$1,690,521	
	(Subtotal Sections 1 thru 7)		(5 to 10%)			
				n //	inor Items:	#4 600 504
				141	mor items.	\$1,690,521
Section 9 - Roadway Mobiliza	ation					
	\$5,632,146	x	0.05	=	\$281,607	
	(Subtotal Sections 1 thru 8)	^	<u>5.05</u> (5%)	_	\$201,007	
	(oublotal ocoupils I till o)		(070)			
			Roadv	way M	obilization:	\$281,607
Section 10 Supplemental M	Jark & Contingonoico					
Section 10 - Supplemental W	ork & Contingencies					
Supplemental Work						
	\$18,595,728	x	0.05	=	\$929,786	
	(Subtotal Sections 1 thru 8)		(5%)			
Contingencies						
	\$18,595,728	Х	<u>0.15</u>	=	\$2,789,359	
	(Subtotal Sections 1 thru 8)		(**%)			
		Sunni	emental Work &	& Can	tingencios:	\$3,719,146
		Ouppn	Smerital Work (x Oon	angendes.	\$5,719,140
	TOTAL ROAD	WAY A	ADDITIONS Se	ections	s 8 thru 10:	\$5,691,274
			TOT	TAL R	OADWAY:	\$22,596,481
			(Subtotal Se	ections	s 1 thru 10)	
Estimate Prepared by: Andrew	Un (HMA,PCC,AB)		Dhana. (I	EEO) 0	40.0044	05/09/45
~;· Andrew	(Print or Type Name)		Phone: <u>(</u>	559) Z	40-0011	05/08/15 (Date)
Estimate Checked	()					(200)
by: Ellery E	Ilis		Phone: (559) 24	43-3811	10/06/16
	(Print or Type Name)		-			(Date)

**Use appropriate percentage per PDPM, Part 3 Chapter 20.

http://www.dot.ca.gov/hg/oppd/pdom/pdpm.htm -pdpm



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6

EA: 06-0H240

Program Code: 20.10.201.315

II. STRUCTURE ITEMS

		STRUCTURE		
	No. 1	No. 2	No. 3	
Bridge Name				
Structure Type			 	
Width (out to out) - (ft)	0	0	0	
Span Length - (ft)	0	0	0	
Total Area - ft ²	0	0	0	
Footing Type (pile/spread)	<u></u>		· ·	
Cost Per ft ² (incl. 10% mobilization & 25% contingencies	20			
Total Cost for Structure	\$0	\$0	\$0	
Other	· <u>\$0</u>	<u>\$0</u>	<u>\$0</u>	
Other	<u>\$13,000,000</u>	<u>\$0</u>	<u>\$0</u>	
* Add additional structures as necessary				
•		SUBTOTAL STRUCTU	RES ITEMS	\$13,000,000
Railroad Related Costs (Not incl. in R/W Est)				\$0
		TOTAL 070.10TH		
		TOTAL STRUCTU	RESTEMS	\$13,000,000
COMMENTS:		_		
-				
·				·
Estimate Prepared				
by: Ellery Ellis		Phone: (559)	243-3589	10/06/16
(Print or T	ype Name)			(Date)
(If appropriate, attach additional pages as bac	ckup)			



Dist-Co-Rte: 06-Fre-99

PM: 16.6/17.6 EA: 06-0H240

Program Code: 20.10.201.315

III. RIGHT OF WAY ITEMS

	Current Values (Future Use)	Escalation Rates		Escalated Values*
Acquisition, including excess lands and damages to remainder(s) and Goodwill	,			
	\$28,122,174	0.0%	_	\$0
Utility Relocation (State share)	\$0	0.0%	_	\$0
Clearance/Demolition	\$0	0.0%	_	\$0
RAP	\$0	0.0%	_	\$0
Title and Escrow Fees	\$0	0.0%	_	\$0
Construction Contract Work	\$0	0.0%	-	\$0
	\$17,210,000			
TOTAL F	RIGHT OF WAY**			\$0

ESCALLATED VALUE*

Date to which Values are Escalated: 0/0/00

Estimate Prepared

by:

Ellery Ellis

Phone: (559) 243-3589

10/06/16

(Date)

(If appropriate, attach additional pages and backup including Right of Way Data Sheet and Environmental Mitigation and Compliance Cost Estimate Sheet).

(Print or Type Name)

Form last revised December 12, 2006 Central Region Project Development Division Technical Support Branch

^{*} Escalated to assumed year of advertising.

^{**} Current total value for use on Sheet 1

ATTACHMENT D



Preliminary Environmental Analysis Report

Project Informatio	n								
District 06 Co	ounty	FRE	Route	99	Post Mile	16.7/17.5	EA	06-0H240	
Project ID#:	06-000	20559_	-		· -				
Project Title:	Cedar/	North A	venue Int	erchange	Modification				
Project Manager:		Neil Br	etz			Phone #:	(559) 24	43-3465	
Design Manager:		Arthur	Ramirez			Phone #:	(559) 24	43-3813	
Design Engineer:		Ellery l	Ellis			Phone #:	(559) 24	43-3589	
Environmental Man	ager:	Richart	d Putler			Phone #:	(559) 44	45-5286	
Environmental Plan	ner:	Jeff Son	rensen			Phone #:	(559) 44	45-5329	

PSR Summary Statement

The anticipated environmental document for the proposed project is a Mitigated Negative Declaration/Finding of No Significant Impact. This document level has been selected based on the impacts to businesses, hazardous waste, and aesthetics which are anticipated to be mitigated below the threshold of significance as defined by CEQA. The California Department of Transportation would act as the lead agency in the preparation of a joint NEPA/CEQA (National Environmental Policy Act/California Environmental Quality Act) environmental document. Caltrans will serve as the NEPA lead agency under its assumption of responsibility pursuant to 23 U.S. Code 327. The estimated time to obtain environmental approval is 36 months from the start of environmental studies. Assuming a start date of January 2017, environmental studies would begin in June 2017 after project preliminary maps are completed. Final environmental document would be anticipated by December 2019.

It is anticipated multiple environmental studies and reports will be required for this project including (but not limited to): air quality study, noise study, preliminary site assessment, paleontological identification report, and visual impact assessment. It is currently estimated that hazardous waste will be the critical path for the delivery of the environmental document. Paleontological monitoring is expected as a requirement of the project with an estimated cost of \$75,000. Preconstruction surveys for nesting birds are expected to be necessary, with an estimated cost of \$108,000.

Project Description

The California Department of Transportation (Caltrans) proposes to modify the Cedar/North Avenue interchange on State Route 99 in south Fresno.

Purpose and Need

The purpose and need for the project is to relieve congestion from heavy truck traffic at the interchange.

Description of Work

Caltrans proposes to reconstruct the Cedar/North Avenue interchange on State Route 99 in south Fresno. Caltrans will be the lead agency for environmental compliance and would design the project.

Alternatives

Three alternatives are being considered: two Build Alternatives and the No-Build. The Build Alternatives would reconstruct the on and off ramps and construct a new North Avenue bridge crossing State Route 99.

F	un	di	ng

⊠ State	⊠Federa
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Primary funding for this project will be from the Fresno County Transportation Authority Measure C program. The project is included in the current Measure C expenditure plan. Other State and Federal funding is being assumed at this point, and this project has been included in the Fresno Council of Governments financially constrained 2014 Federal Regional Transportation Improvement Program.

Anticipated Environmental Approval

<u>CEQA</u>	<u>NEPA</u>
Categorical Exemption/Statutory Exemption	□Categorical Exclusion (□326/□327)
⊠Negative Declaration/Mitigated ND(□Focused)	⊠Finding of No Significant Impact
Environmental Impact Report	Environmental Impact Statement

Anticipated Environmental Schedule

Total Time for Environmental Approval	36 months
Start Date	January 2017
Begin Environmental	June 2017
Draft Environmental Document	October 2019
Final Environmental Document	December 2019
PA&ED*	December 2019

^{*}PA&ED is generally 1 month following the FED date

Assumptions and Risks

Risks to the project have been defined in accordance with the Project Risk Management Handbook, May 2, 2007, Second Edition, Rev 0:

Assumptions:

- An Initial Site Assessment and aerially deposited lead studies would take up to eight months to complete; Preliminary Site Investigations could take up to a year to complete.
- Monitoring during construction for paleontological resources would be necessary.
- Due to the nature of the project and the project area, it is not anticipated that there would be an adverse effect on historic properties.

Risks:

- If invasive Permits to Enter cannot be obtained for Preliminary Site Investigation work, court orders would then be required which would affect the schedule. Probability of occurrence is a 4 and impact on schedule is High.
- If historic properties are identified, the environmental document schedule would have to be revisited. Probability of occurrence is a 1 and impact on schedule is Moderate.
- If bats or swallows are found roosting on the overcrossings, exclusion would be necessary which would impact cost and construction schedule. Probability of occurrence is a 2 and impact on schedule is High.
- If nesting bird(s) are found during preconstruction surveys, a delay in construction may occur, which would impact the cost and construction schedule. Probability of occurrence is a 5 and impact on schedule is High.

Risk Probability Ranking			
Ranking	Probability of Risk Event		
5	60-99%		
4	40-59%		
3	20-39%		
2	10-19%		
1	1-9%		

		Evaluating I	mpact of a Thr	eat on Project	Objectives	
In	npact	Very Low	Low	Moderate	High	Very High
v e s	Time	Insignificant Schedule Slippage	Delivery Plan Milestone Delay within quarter	Delivery Plan milestone delay of one quarter	Delivery Plan milestone delay of more than 1 quarter	Delivery Plan milestone delay outside fiscal year
c t i	Cost	Insignificant Cost Increase	<5% Cost Increase	5-10% Cost Increase	10-20% Cost Increase	>20% Cost Increase
O b j e	Scope	Scope decrease is barely noticeable	Changes in project limits or features with <5% Cost Increase	Changes in project limits or features with 5- 10% Cost Increase	Sponsor does not agree that Scope meets the purpose and need	Scope does not meet purpose and need

Mitigation

Right of Way Capital (050)

California Department of Fish and Wildlife document review fee: \$2,210.00 (2015 dollars).

Construction Capital (042)

- Paleontology monitoring: \$75,000.00 (2015 dollars).
- Preconstruction nesting bird surveys: \$108,000.00 (2015 dollars).

Consultant Task Order (332)

Bridge survey for hazardous materials: \$15,000 (2015 dollars).

Disclaimer

This report is not an environmental document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in this report. The estimates and conclusions provided are approximate and are based on cursory analysis of probable effects. This report is to provide a preliminary level of environmental analysis to supplement the Project Initiation Document. Changes in project scope, alternatives, or environmental laws will require a reevaluation of this report.

Review and Approval

I confirm that environmental cost, scope, and schedule have been satisfactorily completed and that the PEAR meets all Caltrans requirements. Also, if the project is scoped as a routine EA, complex EA, or EIS, I verify that the HQ DEA Coordinator has concurred in the Class of Action.

Approved by:

Environmental Manager	Date: 11-16
Elivironmental Office Chief	Date: //////////
Project Manager Project Manager	Date: 11/2/16

Environmental Technical Reports or Studies Required

Required-requires analysis including field surveys, database searches, report, or memo to file and brief explanation in the environmental document.

Not Required-Issue is not applicable to the proposed project.

Possible Critical Path-Major issue that has the potential to drive the schedule and determine the length of time to reach PA&ED (can be more than one major issue).

	Kequirea	Memo Received	Required	Critical Path
Biology		\boxtimes		
Endangered Species (Federal)	Ц		×	
Endangered Species (State)	H		X	
Species of Concern (CNPS, USFS, BLM, S, F)	\sqcup		\bowtie	
Wetland Delineation	Ц		×	
Natural Environment Study	Ц			
Biological Assessment (USFWS, NMFS, State)	Ш		\bowtie	_
Cultural Resources	· 5 7		r	لــا
ASR			닐	
HRER	×		닐	
HPSR/HRCR	$ \boxtimes$	_	닐	
Screening Memo	¥		닐	
SHPO Concurrence	\boxtimes		Ц	
Native American Coordination	\boxtimes		Ц	
Finding of Effect Document	Ц		\boxtimes	
Treatment Plan & MOA			\bowtie	
Hazardous Waste	_			\boxtimes
ISA				
PSI	\boxtimes			
ADL	\bowtie			
Air Quality Analysis				
Hot Spot Analysis	\boxtimes			
MSAT			\boxtimes	
Noise Study	\boxtimes			
Water Quality		$\overline{\boxtimes}$	\boxtimes	
Community Impact Assessment				
Environmental Justice			\boxtimes	
Growth Related Impacts			\boxtimes	
Cumulative Impacts			\boxtimes	
Farmland			\boxtimes	
Visual Resources				
Scenic Resource Evaluation			\boxtimes	
Visual Impact Assessment	\boxtimes			
Floodplain Evaluation				
Paleontology	\boxtimes			
Section 4(f) Evaluation			\boxtimes	
Wild and Scenic River Consistency	\Box		$\overline{\boxtimes}$	
Geology				
Topology	Ħ		$\overline{\boxtimes}$	П
Soils	Ħ		$\overline{\boxtimes}$	Ħ
Greenhouse Emissions	$\overline{\boxtimes}$			

Permits Anticipated for Construction

	Required	Not Required
401 Permit Coordination (discharge into navigable waters)		
404 Permit Coordination (discharge into waters of the US including wetlands)		
🗌 - Nationwide		
🔲 - Individual		
1600 Permit (Streambed Alteration)		
City/County Coastal Permit Coordination		\boxtimes
State Coastal Permit Coordination		\boxtimes
NPDES Coordination		\boxtimes
US Coast Guard (Section 10)		\boxtimes
Biological Opinion (Section 7)		
State 2081 Permit (State only incidental take of threatened or endangered species)		

Discussion of Technical Review

Biology. The project area consists of disturbed areas with pockets of trees and shrubs that may be suitable for nesting birds and raptors. including Swainson's hawk. Surveys during the nesting season would be required, and coordination with the California Department of Fish and Wildlife would be needed for nesting birds and Swainson's hawk surveys. A Biological Compliance Memorandum would be prepared for this project. Two months for surveys and one week for report writing would be necessary. If trees or other vegetation is be removed during the nesting season, preconstruction surveys would be required (Biological Resources Scoping Report, July 2015).

<u>Cultural Resources</u>. An archaeological survey and an evaluation of all buildings and structures within the area of potential effect would be required. The project cannot be screened for cultural resources under the Programmatic Agreement; it will require full Section 106 studies and potentially concurrence from the State Historic Preservation Officer. There are no known recorded cultural resources within the project area; however, much of the project area has not been surveyed. Twelve months should be allowed for completion of studies after the project is programmed. Due to the nature of the project and the project area, it is not anticipated that there would be an adverse effect on historic properties by the project. If this assumption proves incorrect, the environmental document schedule would have to be revisited (John Whitehouse email, April 2015).

Hazardous Waste. The project area contains numerous commercial and industrial uses, as well as community water wells, irrigation features, aboveground and underground utilities and storage tanks. A number of properties are on the Cortese List. A bridge survey and aerially deposited lead investigation as well as a thorough Initial Site Assessment are required. Preliminary Site Investigations will be required to clear parcels for purchase. The Initial Site Assessment and aerially deposited lead investigations are expected to take eight months to complete and the Preliminary Site Investigations would require up to a year to complete depending upon granting of invasive permits to enter (Hazardous Waste Scoping, May 2015).

Air Quality Analysis. Although interchange reconfiguration projects are exempt from regional emissions analysis, further analysis is required because the project is located in a non-attainment area (for PM2.5, PM10, and ozone). An air quality study taking four weeks is required (Air, Noise and Water Quality Memorandum, May 2015).

Noise Study. Reconfiguration of an interchange is considered to be a Type I project, requiring full noise analysis. Four to six weeks should be allowed for completion of the noise study (Air, Noise, and Water Quality Memorandum, May 2015).

Water Quality. The project has the potential for short-term impacts during construction; no long-term impacts are anticipated. All short-term impacts would be addressed during design and construction of the project. Best management practices (BMPs) would be selected and implemented in accordance with the Project Planning and Design Guide. The contractor is required to address all potential water quality impacts during construction. No further investigation during the environmental compliance phase of the project is required (Air, Noise and Water Quality Memorandum, May 2015).

<u>Community Impact Assessment</u>. The project area is surrounded by businesses. Right of way would be acquired by the project and several businesses would be displaced (field visit, March 2015 and project description).

<u>Cumulative Impacts</u>. There would be no cumulative impacts from this project (project description).

Farmland. There are no farmlands or timberlands in the project area (field visit, March 2015)

<u>Visual Resources</u>. Highway landscaping would be removed to construct this project. A visual impact assessment would be required (field visit, March 2015).

Floodplain Evaluation. The project area is not located within a 100-year floodplain (FEMA mapping confirmed April 2015).

Paleontology. The surface geology of the project area is Quaternary fan deposits comprised of the Modesto formation. The Modesto Formation is considered to be highly sensitive for paleontological resources. Excavation within the existing below-grade segment of the project will likely impact paleontological resources. A study to determine the project's impacts to high sensitivity resources is required and a Paleontological Identification Report will be prepared during environmental compliance. The estimated cost of monitoring during construction is currently \$75,000 (Scoping Memorandum, April 2015).

Section 4(f) Evaluation. There are no Section 4(f) resources within the project limits (field visit, February 2015).

Wild and Scenic River Consistency. There are no rivers within the project limits (field visit, February 2015).

Geology. Not applicable.

Topology. Not applicable.

Soils. Not applicable.

Greenhouse Emissions. An analysis would be included in the environmental document.

Permits.

• No permits are anticipated.

List of Preparers

Community Impacts by Dan Waterhouse	April 2, 2015
Paleontology by Richard Stewart	April 6, 2015
Hazardous Waste by Susan Greenwood	May 27, 2015
Biology by Sarah Soliman	July 15, 2015
Air, Noise and Water Quality by Cris Timofei	May 5, 2015
Cultural Resources by John Whitehouse	April 13, 2015
Visual Resources by Sherry Alexander	May 10, 2015
Preliminary Environmental Analysis Report by Dan Waterhouse	July 17, 2015

Attachment 8: Resources by WBS Code

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A. 06-0H240

Attachment B: Besources by Wille Code, grant

EA 06-0H240 Proj fD:

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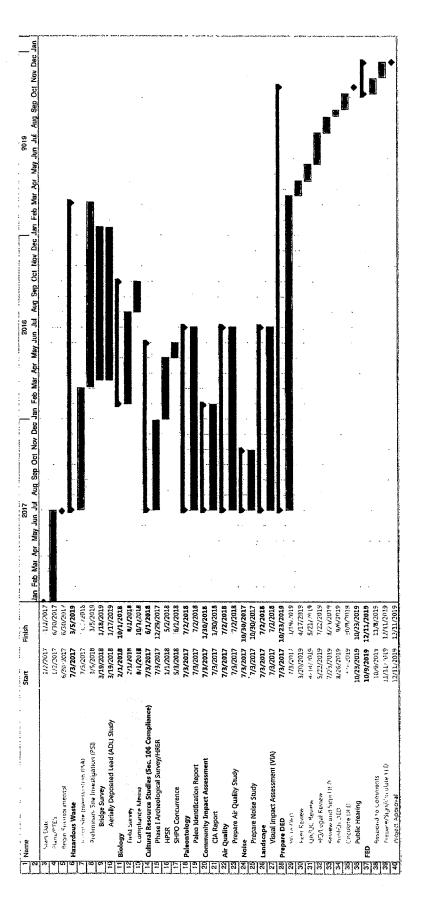
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Revised: 11/1/2016

Central Region Environmental Division Mitigation Compliance Cost Estimate (MCCE)

This MCCE is for: Pl	EAR									
Dist - Co - Rte - PM.	06-FRE-99-16.	7 / 17.5						FA	06-0H240	
Project Name:	Cedar / North I	nterchange					Alte	=rnative #:		
Project Description:	MODIFY INTER	RCHANGE							Annual Control of the State of	*****
Env. Senior:	Richard Putler		~~~	*********		***************************************	Phone	Number	559-445-5286	
Project Manager:	*************************								(559) 243-3465	-
MCCE Prepared By:	Jeff Sorensen			Date:	10/31/	2016			(559) 445-5329	
		PA&ED 232 Dollars	FY		res or redits		OW Oollars	FY	Construction 042 Dollars	FY
Biological									o iz Dollais	
Monitoring								•	\$108,000	20/24
Hazardous Waste									7.00,000	20121
Bridge survey		\$15,000	20/21	•						
Paleontological	-						<u> </u>			
Monitoring									\$75,000	20/24
Permit Fees						1				20121
CDFW Document Filin	g Fee						\$2,210	20/21		
NOI/NOT (Stormwater)	<u> </u>				_		226.00			
NOI/NOT (Stormwater)	<u> </u>					\$6,	226.00			
	TOTAL	\$15,000				\$	14,662		\$183,000	
Comments										
Biological monitoring cost	s are for precon	struction survey	ys for n	esting	j birds/r	aptors,				

Approved By:	Parkard Matter	Date:	\dot{H}^{*}	, j	U)
	Environmental Branch Chief				
If mitigation totals more than \$1,000,000:		Date:			
	Environmental Office Chief				
if Right of Way Capital (050) is needed:	Louis Fr.	Date:	11	7	4,
	Right-of-Way Office Chief, Mitigation		<u></u>		



ATTACHMENT E

STATE OF CALIFORNIA

CALIFORNIA STATE TRANSPORTATION AGENCY

Memorandum

To: NEIL BRETZ

Date: 11/23/2015

Attn ELLERY ELLIS

File: CD 06 EA 0H240K

Alt ALT 1

Co FRE RTE 99

DESCRIPTION:

CONSTRUCT A TYPE L-9 STANDARD PARTIAL

CLOVERLEAF INTERCHANGE AT THE NORTH AVENUE

OVERCROSSING AT ROUTE 99

ARTHUR RAMIREZ

•

Division of Right of Way Central Region

Department of Transportation

Subject: RIGHT OF WAY DATA SHEET

We have completed an estimate of the right of way costs for the above-referenced project based on the Right of Way Data Sheet Request Form dated 9/8/2015

The following assumptions and limiting conditions were identified:

Appraisal

This project will construct a type L-9 Standard Partial Cloverleaf interchange at North Avenue overcrossing at State Route 99. Required right of consists of impacting approximately 28 parcels. This project has full and part take acquisitions that will impact Heavy Industrial zone parcels. Additional right of way requirements are anticipated, but are not defined in current preliminary design.

Utility

Various facilities are assumed to be impacted and will require relocation. This estimate is based off of limited utility maps, Google Earth search, meeting with design and a field visit. The Master Agreements will apply to this project because it is a Freeway project. Therefore, it is assumed the electric, gas and telephone facilities will be 50% State liability and 50% Owner Liability. It is assumed the remainder of the utilities will be 100% State's liability because it is unclear if each utility is located in easement on private property or in easement or in franchise on City streets. The underground utilities are assumed to be present based on what was seen visually on the site visit. Design was unable to provide detail maps of the underground utilities for the area outside of the current 99 footprint at North Avenue. Therefore, this is a guesstimate of the amount of feet needed to be relocated. The cost of the new canal crossing has been estimated with no detail as to the extent of the relocation work necessary. It is recommended utility verification plans be provided by design so utility verifications can be requested from the utility owners.

Right of Way Lead Time will require a minimum of 30 months after we receive Certified Appraisal Maps and/or Utility Conflict Plans, obtained necessary environmental clearance and applicable freeway agreements have been approved.

SUZIE HOLDRIDGE

Acting Office Chief, Central Region Right of Way

(559) 445-6195

CO/RTE/PM-PM (Rte 1 and Rte 2): FRE/99/16.7- & //-

ALT: ALT 1

Request Date:

9/8/2015

Revised Date:

			1,10,8(2)	ed Date:
Right Of Way Cost Estimate	Current Year 2015	Contingency Rate	Right of Way Escalation Rate	Escalated Year 2025
Acquisition:	\$12,689,543	25%	5%	\$20,669,928
Mitigation:	\$2,763	25%	5%	\$4,500
State Share of Utilities:	\$12,205,400	25%	5%	\$19,881,310
Expert Witness:	\$0	25%	5%	\$0
Relocation Assistance:	\$856,563	25%	5%	\$1,395,250
Demolition and Clearance:	\$871,235	25%	5%	\$1,419,150
Title and Escrow:	\$157,520	25%	5%	\$256,584
Ad Signs:	\$0	25%	5%	\$0
Total Current Value: If RW Cost Est fields are blank, Costs = \$0	\$26,783,023			\$43,626,722

NOTE: above estimate includes railroad engineering in the amount of: \$0.00

Estimated Construction Contract Work (CCW):

31,080 R/W LEAD TIME/Mo.

24

1						
Cost Break	Down					
Pot Hole	15,000					
Mitigation						
Land	0					
Bank	٥					
Permit Fees	2,210					

Parcel Data

# of Parcel Type X:	Ö	defense and defense	-
# of Parcel Type A: less than \$10,000 non-complex	4		
# of Parcel Type B: more than \$10,000 non-complex	14	THE COLUMN AND ADDRESS OF THE COLUMN AND ADD	
# of Parcel Type C: complex, special valuation	4		
# of Parcel Type D: most complex and time consuming	6	# of Duals Needed:	0
Totals:	28	Totals:	0

of Excess Parcels:

5

Misc R/W Work

# of RAP Displacements:	10
# of Clearance/Demos:	13
# of Const Permits:	. 0
# of Condemnations:	6

RR Involvement

Railroad Facilities or Right of Way Affected?	no
Const/Maint Agreement:	no
Service Contract Count:	-0
Right of Entry:	no
Clauses:	no
Estimated Lead-time:	лопе

Utilities

Ountes	
U4-1; Owner Expense	5
U4-2: State Expense, Conventional no Fed Aid	0
U4-3: State Expense, Freeway no Fed Aid	10
U4-4; State Expense, both with Fed Aid	0
U5-7: Utility verification, no relocation/potholing	0
U5-8: Utility verification, w/ some relocation/potholing	0
U5-9: Utility verifications, relocation/potholing required	15

ALT: ALT 1

	Parcel Area
Total R/W Required:	29.67
Total Excess Area:	0,5B

General Description of R/W and Excess Lands Required (zoning, use, major improvements, critical or sensitive parcels etc.):

Required right of way for Fresno 99 Interchange Modification impacts approximately 28 parcels. This project has full and part take acquisitions zoned M-3 Heavy Industrial District. Heavy Industrial zoned land uses consist of different types of service businesses and vacant land. Addition right of way requirements are anticipated, but are not defined in current preliminary design. Several businesses will require relocation and poter loss of good will could be claimed. Construction contract work is estimated for several driveway approaches and a relocation of a mailbox.

General Description of Utility Involvement:

Highway 99 is designated a Freeway in the project area. In Fresno County, in Fresno, from 0.8 mile south of Cedar Avenue to 0.6 mile north of Avenue. The project proposes to construct a Type L-9 Standard Partial Cloverleaf Interchange at the North Avenue overcrossing at State Route (SR) 99. The utility involvement includes overhead electric lines, hydrants, street lights, telephone pedestals, water pumps, service pedestals, underground electric, underground gas, underground telephone, underground water, underground sewer, manholes and 1 canal crossing. The designer for this project has estimated approximately 30 potholes to identify underground facilities.

Is there a significant effect on assessed valuation:	No	
Were any previously unidentified sites with hazardous	waste or material found;	No
Are RAP displacements required: Yes		<u> </u>
# of single family: 0 # of muliti-family:	0 # of business/nonprofit:	10 # of farms: 0
Sufficient replacement housing will be available without	t last resort housing:	N/A
Are material borrow or disposal sites required:	No	L-,
Are there potential relinquishments or abandonments:	Yes	
Are there any existing or potential airspace sites:	No	
Are environmental mitigation parcels required:	Yes	
Data for evaluation provided by:		
Estimator:	Cynthia Willems	10/6/2015
Railroad Liaison Agent:	Michelle Hernandez	9/28/2015
Utiltiy Relocation Coordinator:	Nikki Beebe-Pence	10/28/2015
I have personally reviewed this Right of Way St complete and current, subject to the limiting con	heet and all supporting information. nditions set forth.	I find this Data Sheet
Date	A STATE HOLDBURGE	
ENTERED PMCS 11/5/2015	SDZIE HOLDRIDGE Acting Office Chief, Centra	I Region Right of Way
BY: SUSAN RAMOS	- wang omoo omol, denne	in region ingili or way

Revised: 7/31/2015

Central Region Environmental Division Mitigation Compliance Cost Estimate (MCCE)

OD: 17 DOGMENT III)	TOTAL	\$15,000	* *			190	\$2,210 \$2,210	17/18	\$183, 0 00		
Permit Fees CDFW Document Filing	ı Fee								,,0,000	19/20	
Monitoring									\$75,000	1000	
Paleontological		410,000	10720			· ,_					
Bridge survey		\$15,000	19/20	}					-		
Monitoring Hazardous Waste									\$108,000	19/20	
Biological		232 DORais		U	edits	050 [Dollars	7-1	042 Dollars	FY	
		PA&ED 232 Dollars	FY		res or		OW	FY	Construction	· visionapage.	
MCCE Prepared By:	Dan Waterhous	e census anno anno anno anno anno anno anno ann		Date:	7/17/2	015	_ Phone	∍ Number:	(559) 445-6451		
Project Manager:									559-445-5286 (559) 243-3443	·	
- •	Michelle Ray	***		·			D1-				
Project Name: Project Description:	Cedar / North In MODIFY INTER		·				Alt	ernative#			
	06-FRE-99-16.					EA: 06-0H240					

Approved By:	Miller Res	Date:	03/31/15
If mitigation totals	Environmental Branch Chief		
more than \$1,000,000:	Environmental Office Chief	_ Date: _	
If Right of Way Capital (050) is needed:			
	Right-of-Way Office Chief, Mitigation	_ Date:	

STATE OF CALIFORNIA

CALIFORNIA STATE TRANSPORTATION AGENCY

Memorandum

To: NEIL BRETZ

Date: 11/25/2015

Attn ELLERY ELLIS

File: CD 06 EA 0H240K

Alt ALT 2

CO FRE RTE 99

ARTHUR RAMIREZ

DESCRIPTION:

CONSTRUCT A TYPE L-9 MODIFIED PARTIAL CLOVERLEAF INTERCHANGE AT THE NORTH AVENUE OVERCROSSING AT ROUTE 99. THE NORTHBOUND AND SOUTHBOUND ON

/GIIIOITI DUMILL

From: Department of Transportation

Division of Right of Way Central Region

Subject: RIGHT OF WAY DATA SHEET

We have completed an estimate of the right of way costs for the above-referenced project based on the Right of Way Data Sheet Request Form dated 9/8/2015

The following assumptions and limiting conditions were identified:

Appraisal

This project will construct a type L-9 Modified Partial Cloverleaf Interchange at North Avenue overcrossing at State Route 99. Required right of consists of impacting approximately 21 parcels. This project has full and part take acquisitions that will impact Heavy Industrial zone parcels. Additional right of way requirements are anticipated, but are not defined in current preliminary design.

Utility

Various facilities are assumed to be impacted and will require relocation. This estimate is based off of limited utility maps, Google Earth search, meeting with design and a field visit. The Master Agreements will apply to this project because it is a Freeway project. Therefore, it is assumed the electric, gas and telephone facilities will be 50% State liability and 50% Owner Liability. It is assumed the remainder of the utilities will be 100% State's liability because it is unclear if each utility is located in easement on private property or in easement or in franchise on City streets. The underground utilities are assumed to be present based on what was seen visually on the site visit. Design was unable to provide detail maps of the underground utilities for the area outside of the current 99 footprint at North Avenue. Therefore, this is a guesstimate of the amount of feet needed to be relocated. The cost of the new canal crossing has been estimated with no detail as to the extent of the relocation work necessary. It is recommended utility verification plans be provided by design so utility verifications can be requested from the utility owners.

Right of Way Lead Time will require a minimum of 30 months after we receive Certified Appraisal Maps and/or Utility Conflict Plans, obtained necessary environmental clearance and applicable freeway agreements have been approved.

SUZIE HOLDRIDGE

Acting Office Chief, Central Region Right of Way

(559)445-6195

CO/RTE/PM-PM (Rte 1 and Rte 2): FRE/99/16.7- & //-

ALT: ALT 2

Request Date: Revised Date:

9/8/2015

Right Of Way Cost Estimate	Current Year 2015	Contingency Rate	Right of Way Escalation Rate	Escalated Year 2025
Acquisition:	\$4,822,103	25%	5%	\$7,854,697
Mitigation:	\$2,763	25%	5%	\$4,500
State Share of Utilities:	\$12,205,400	25%	5%	\$19,881,310
Expert Witness:	\$0	25%	5%	\$0
Relocation Assistance:	\$514,063	25%	5%	\$837,354
Demolition and Clearance:	\$213,988	25%	5%	\$348,563
Title and Escrow:	\$71,190	25%	5%	\$115,961
Ad Signs:	\$0	25%	5%	\$0
Total Current Value: If RW Cost Est fields are blank, Costs = \$0	\$17,829,505	<u> </u>		\$29,042,385

NOTE: above estimate includes railroad engineering in the amount of: \$0.00

Estimated Construction Contract Work (CCW):

28,860 R/W LEAD TIME/Mo.

30

Cost Break Down		
Pot Hole 15,000		
Mitigation		
Land	0	
Bank	0	
Permit Fees	2,210	

Parcel Data

# of Parcel Type X:	0		
# of Parcel Type A: fess than \$10,000 non-complex	5		
# of Parcel Type B: more than \$10,000 non-complex	7		
# of Parcel Type C: complex, special valuation	4		
# of Parcel Type D: most complex and time consuming	5	# of Duals Needed:	0
Totals:	21	Totals:	0

0

of Excess Parcels:

Misc R/W Work

# of RAP Displacements:	7
# of Clearance/Demos:	11
# of Const Permits:	0
# of Condemnations:	- 10

RR involvement

Raliroad Facilities or Right of Way Affected?	no
Const/Maint Agreement:	no
Service Contract Count:	O
Right of Entry:	no
Clauses:	no
Estimated Lead-time:	лопе

Utilities

Omittes	
U4-1; Owner Expense	5
U4-2: State Expense, Conventional no Fed Aid	0
U4-3: State Expense, Freeway no Fed Aid	10
U4-4: State Expense, both with Fed Aid	0
U5-7: Utility verification, no relocation/potholing	0
U5-8: Utility verification, w/ some relocation/potholing	0
U5-9: Utility verifications, relocation/potholing required	15

ALT: ALT 2

Parcel Area

Total R/W Required: 14.81
Total Excess Area: 0.67

General Description of R/W and Excess Lands Required (zoning, use, major improvements, critical or sensitive parcels etc.):

Required right of way for Fresno 99 Interchange Modification Impacts approximately 21 parcels. This project has full and part take acquisitions zoned M-3 Heavy Industrial District. Heavy Industrial zoned land uses consist of different types of service businesses and vacant land. Addition right of way requirements are anticipated, but are not defined in current preliminary design. Several businesses will require relocation and poter loss of good will could be claimed. Construction contract work is estimated for several driveway approaches and a relocation of a mailbox.

General Description of Utility Involvement:

Highway 99 is designated a Freeway in the project area. In Fresno County, in Fresno, from 0.8 mile south of Cedar Avenue to 0.6 mile north of Avenue. The project proposes to construct a Type L-9 Modified Partial Cloverleaf Interchange at the North Avenue overcrossing at State Route 99. The northbound and southbound on ramps have been modified to slip ramps. The utility involvement includes overhead electric fines, hydrostreet lights, telephone pedestals, water pumps, service pedestals, underground electric, underground gas, underground telephone, undergrour water, underground sewer, manholes and 1 canal crossing. The designer for this project has estimated approximately 30 potholes to identify underground facilities.

is there a significant effect on assessed valuation	on: No	
Were any previously unidentified sites with haza	ardous waste or material found:	· No
Are RAP displacements required:	Yes	
# of single family: 0 # of muliti-family	y: 0 # of business/nonprofit:	7 # of farms: 0
Sufficient replacement housing will be available	without last resort housing:	N/A
Are material borrow or disposal sites required:	No	
Are there potential relinquishments or abandonm	nents: Yes	
Are there any existing or potential airspace sites:	No No	
Are environmental mitigation parcels required:	Yes	
Data for evaluation provided by:	L	
Estimator:	Cynthia Willems	10/9/2015
Railroad Liaison Agent:	Michelle Hernandez	9/28/2015
Utiltiy Relocation Coordinator:	Nikki Beebe-Pence	10/28/2015
I have personally reviewed this Right of W complete and current, subject to the limiting	lay Sheet and all supporting information. In conditions set forth.	I find this Data Sheet
Date ENTERED PMCS BY:	SUZIE HOLDRIDGE Acting Office Chief, Centra	al Region Right of Way

STATE OF CALIFORNIA

CALIFORNIA STATE TRANSPORTATION AGENCY

Memorandum

NEIL BRETZ To:

Date: 11/25/2015

File: CD 06 EA 0H240K

Alt ALT 3

Attn ELLERY ELLIS

Co FRE **RTE 99**

ARTHUR RAMIREZ

DESCRIPTION:

CONSTRUCT A TYPE L-5 SPREAD DIAMOND INTERCHANGE AT THE NORTH AVENUE OVERCROSSING AT ROUTE 99

From: Department of Transportation

Division of Right of Way Central Region

Subject: RIGHT OF WAY DATA SHEET

We have completed an estimate of the right of way costs for the above-referenced project based on the Right of Way Data Sheet Request Form dated 9/8/2015

The following assumptions and limiting conditions were identified:

Appraisal

This project will construct a type L-5 Spread Diamond Interchange at North Avenue overcrossing at State Route 99. Required right of consists of impacting approximately 24 parcels. This project has full and part take acquisitions that will impact Heavy Industrial zone parcels. Additional right of way requirements are anticipated, but are not defined in current preliminary design.

Various facilities are assumed to be impacted and will require relocation. This estimate is based off of limited utility maps, Google Earth search, meeting with design and a field visit. The Master Agreements will apply to this project because it is a Freeway project. Therefore, it is assumed the electric, gas and telephone facilities will be 50% State liability and 50% Owner Liability. It is assumed the remainder of the utilities will be 100% State's liability because it is unclear if each utility is located in easement on private property or in easement or in franchise on City streets. The underground utilities are assumed to be present based on what was seen visually on the site visit. Design was unable to provide detail maps of the underground utilities for the area outside of the current 99 footprint at North Avenue. Therefore, this is a guesstimate of the amount of feet needed to be relocated. The cost of the new canal crossing has been estimated with no detail as to the extent of the relocation work necessary. It is recommended utility verification plans be provided by design so utility verifications can be requested from the utility owners.

Right of Way Lead Time will require a minimum of 30 months after we receive Certified Appraisal Maps and/or Utility Conflict Plans, obtained necessary environmental clearance and applicable freeway agreements have been approved.

SUZIE HOLDRIDGE

Acting Office Chief, Central Region Right of Way

(559)445-6195

CO/RTE/PM-PM (Rte 1 and Rte 2): FRE/99/16.7- & //-

ALT: ALT 3

Request Date:

9/8/2015

Revised	Date

,			***************************************	
Right Of Way Cost Estimate	Current Year 2015	Contingency Rate	Right of Way Escalation Rate	Escalated Year 2025
Acquisition:	\$2,930,765	25%	5%	\$4,773,90
Mitigation:	\$2,763	25%	5%	\$4,500
State Share of Utilities:	\$13,848,250	25%	5%	\$22,557,346
Expert Witness:	\$0	25%	5%	\$0
Relocation Assistance:	\$577,188	25%	5%	\$940,178
Demolition and Clearance:	\$795,154	25%	5%	\$1,295,222
Title and Escrow:	\$55,558	25%	5%	\$90,498
Ad Signs:	\$0	25%	5%	\$0
Total Current Value: If RW Cost Est fields are blank, Costs = \$0	\$18,209,676	<u> </u>		\$29,661,644

NOTE: above estimate includes railroad engineering in the amount of: \$0.00

Estimated Construction Contract Work (CCW):

26,640 P/W LEAD TIME/Mo.

30

Cost Break Down			
Pot Hole	15,000		
Mitigation			
Land	0		
Bank	0		
Permit Fees	2,210		

Parcel Data

# of Parcel Type X:	0		
# of Parcel Type A: less than \$10,000 non-complex	7		
# of Parcel Type B: more than \$10,000 non-complex	7		
# of Parcel Type C: complex, special valuation	6		•
# of Parcel Type D: most complex and time consuming	4	# of Duals Needed:	D
Totals:	24	Totals:	0

of Excess Parcels:

Misc R/W Work

# of RAP Displacements:	6
# of Clearance/Demos:	14
# of Const Permits:	0
# of Condemnations:	6

RR Involvement

Railroad Facilities or Right of Way Affected?	No
Const/Maint Agreement:	no
Service Contract Count:	σ
Right of Entry:	no
Clauses:	DO
Estimated Lead-time:	none

Utilities

Ountes	
U4-1: Owner Expense	5
U4-2: State Expense, Conventional no Fed Aid	Đ
U4-3: State Expense, Freeway no Fed Aid	10
U4-4: State Expense, both with Fed Aid	0
U5-7: Utility verification, no retocation/potholing	0
U5-8: Utility verification, w/ some relocation/potholog	0
U5-9: Utility verifications, relocation/potholing required	15

ALT: ALT 3

Parcel Area

Total R/W Required:	26.32
Total Excess Area:	1.3

General Description of R/W and Excess Lands Required (zoning, use, major improvements, critical or sensitive parcels etc.):

Required right of way for Fresno 99 Interchange Modification impacts approximately 24 parcels. This project has full and part take acquisitions zoned M-3 Heavy Industrial District. Heavy Industrial zoned land uses consist of different types of service businesses and vacant land. Addition right of way requirements are anticipated, but are not defined in current preliminary design. Several businesses will require relocation and poter loss of good will could be claimed. Construction contract work is estimated for several driveway approaches and a relocation of a mailbox.

General Description of Utility Involvement:

Highway 99 is designated a Freeway in the project area. In Fresno County, In Fresno, from 0.8 mile south of Cedar Avenue to 0.6 mile north of Avenue. The project proposes to construct a Type L-5 Spread Diamond Interchange at the North Avenue overcrossing at State Route (SR) 99, utility involvement includes overhead electric lines, hydrants, street lights, telephone pedestals, water pumps, service pedestals, underground electric, underground gas, underground telephone, underground water, underground sewer, manholes and 1 canal crossing. The designer for the project has estimated approximately 30 potholes to identify underground facilities.

Is there a significant effect on assessed valuation:	No	
Were any previously unidentified sites with hazardo	ous waste or material found:	No
Are RAP displacements required: Yes	S	<u> </u>
# of single family: 0 # of muliti-family:	0 # of business/nonprofit:	6 # of farms: 0
Sufficient replacement housing will be available with	hout last resort housing:	N/A
Are material borrow or disposal sites required:	No ·	
Are there potential relinquishments or abandonment	ts: Yes	
Are there any existing or potential airspace sites:	No	
Are environmental mitigation parcels required:	Yes	
Data for evaluation provided by:		
Estimator:	Cynthia Willems	10/8/2015
Railroad Liaison Agent:	Michelle Hernandez	9/28/2015
Utility Relocation Coordinator:	Nikki Beebe-Pence	10/28/2015
I have personally reviewed this Right of Way complete and current, subject to the limiting of	Sheet and all supporting information. conditions set forth.	I find this Data Sheet
Date		
ENTERED PMCS	SUZIE HOLDRIDGE Acting Office Chief, Central	Region Bight of Way
BY:	, coming officer officer	indicuindir of that

Revised: 7/31/2015

Central Region Environmental Division Mitigation Compliance Cost Estimate (MCCE)

This MCCE is for: PE	EAR		•			•	,		
Dist - Co - Rte - PM: Project Name:								06-0H240_	
Project Description:						Alte	emative #:		
•	Michelle Ray							FF6 4.5	
Project Manager:								559-445-5286	
MCCE Prepared By:		Se		Date: 7/17/2	015	Phone _	Number: Number:	(559) 243-3443 (559) 445-6451	
		PA&ED 232 Dollars	FY	Acres or Credits		OW Dollars	FY	Construction 042 Dollars	FY
Biological									•
Monitoring								\$108,000	40.45
Hazardous Waste								4.00,000	19/2(
Bridge survey		\$15,000	19/20)					
Paleontological									
Monitoring								\$75,000	19/20
Permit Fees									10120
CDFW Document Filing	Fee			,		\$2,210	17/18		
	TOTAL	\$15,000				\$2,210		\$183,000	
Comments								.,	

Biological monitoring costs are for preconstruction surveys for nesting birds/raptors.

Approved By:	Environmental Branch Chief	Date: _	07/31/15
If mitigation totals more than \$1,000,000;		Date:	
If Right of Way Capital	Environmental Office Chief		
(050) is needed:	Right-of-Way Office Chief, Mitigation	Date:	
	MIGHTONIA ON CHOCK CITIES, MINIGENON		

STATE OF CALIFORNIA

Memorandum

To: NEIL BRETZ

Date: 12/13/2016

File: CD 06 EA 0H240K

Alt ALT 4

Attn ELLERY ELLIS

Co FRE RTE 99

ARTHUR RAMIREZ

DESCRIPTION:

INTERCHANGE MODIFICATION

ALTERNATIVE 4 IS TO CONSTRUCT A DIVERGENCET DIAMOND INTERCHANGE (DDI) AT THE NORTH AVENUE

From: Department of Transportation

Division of Right of Way Central Region

Subject: RIGHT OF WAY DATA SHEET

We have completed an estimate of the right of way costs for the above-referenced project based on the Right of Way Data Sheet Request Form dated 11/28/2016

The following assumptions and limiting conditions were identified:

Parcels

This project will construct a Divergencet Diamond Interchange (DDI) at the North Avenue overcrossing at Route 99. Required right of consists of impacting approximately 21 parcels. This project has full and part take acquisitions that will impact Heavy Industrial zone parcels. Additional right of way requirements are anticipated, but are not defined in current preliminary design.

Utility

Various facilities are assumed to be impacted and will require relocation. This estimate is based on limited mapping, Google Earth search, and a field visit. The Master Agreements will apply to this project because it is a Freeway project. Therefore, it is assumed the electric, gas and telephone facilities will be 50% State liability and 50% Owner Liability. It is assumed the remainder of the utilities will be 100% State's cost because the liability is unclear. The underground utilities are assumed to be present based on what was seen visually on the site visit. Design was unable to provide detail maps of the underground utilities for the area outside of the current 99 footprint at North Avenue. Therefore, this is a guesstimate of the amount of feet needed to be relocated. The cost of the new canal crossing has been estimated with no detail as to the extent of the relocation work necessary. It is recommended utility verification plans be provided by design so utility verifications can be requested from the utility owners.

Right of Way Lead Time will require a minimum of 30 months after we receive Certified Appraisal Maps and/or Utility Conflict Plans, obtained necessary environmental clearance and applicable freeway agreements have been approved.

Recommended for approval by:

DAVID SHERMAN

Senior Right of Way Agent

(559)445-6225

CO/RTE/PM-PM (Rte 1 and Rte 2): FRE/99/16.7- & //-

ALT: ALT 4

Request Date: 11/28/2016 Revised Date:

LI. ALI 4			1/0/15	eu Date.
Right Of Way Cost Estimate	Current Year 2016	Contingency Rate	Right of Way Escalation Rate	Escalated Year 2025
Acquisition:	\$3,314,709	25%	5%	\$5,142,201
Mitigation:	\$2,763	25%	5%	\$4,286
State Share of Utilities:	\$7,278,125	25%	5%	\$11,290,761
Expert Witness:	\$0	25%	5%	\$0
Relocation Assistance:	\$201,563	25%	5%	\$312,690
Demolition and Clearance:	\$135,344	25%	5%	\$209,963
Title and Escrow:	\$56,116	25%	5%	\$87,054
Ad Signs:	\$0	25%	5%	\$0
Total Current Value: If RW Cost Est fields are blank, Costs = \$0	\$10,988,618	-t		\$17,046,954

NOTE: above estimate includes railroad engineering in the amount of:

\$0.00

Estimated Construction Contract Work (CCW):

26,640 R/W LEAD TIME/Mo.

30

Cost Break Down			
Pot Hole	15,000		
Mitigation			
Land	0		
Bank	0		
Permit Fees	2,210		

Parcel Data

# of Parcel Type X:	0		
# of Parcel Type A: less than \$10,000 non-complex	6		
# of Parcel Type B: more than \$10,000 non-complex	11		
# of Parcel Type C: complex, special valuation	3		
# of Parcel Type D: most complex and time consuming	1	# of Duals Needed:	0
Totals:	21	Totals:	0

0

of Excess Parcels:

Misc R/W Work

# of RAP Displacements:	2
# of Clearance/Demos:	10
# of Const Permits:	0
# of Condemnations:	10

RR involvement

- tat miromone	
Railroad Facilities or Right of Way Affected?	No
Const/Maint Agreement:	No
Service Contract Count:	0
Right of Entry:	No
Clauses:	No
Estimated Lead-time:	None

Utilities

U4-1: Owner Expense	5
U4-2: State Expense, Conventional no Fed Aid	0
U4-3: State Expense, Freeway no Fed Aid	10
U4-4: State Expense, both with Fed Aid	0
U5-7: Utility verification, no relocation/potholing	0
U5-8: Utility verification, w/ some relocation/potholing	0
U5-9: Utility verifications, relocation/potholing required	15

ALT: ALT 4

Parcel Area

Total R/W Required:	17.69
Total Excess Area:	0

General Description of R/W and Excess Lands Required (zoning, use, major improvements, critical or sensitive parcels, etc.):

Required right of way for Fresno 99 Interchange Modification impacts approximately 21 parcels. This project has full and part take acquisitions zoned M-3 Heavy Industrial District. Heavy Industrial zoned land uses consist of different types of service businesses and vacant land. Additional right of way requirements are anticipated, but are not defined in current preliminary design. Several businesses will require relocation and potential of loss of good will could be claimed. Construction contract work is estimated for several driveway approaches and a relocation of a mailbox.

General Description of Utility Involvement:

Highway 99 is designated a Freeway in the project area. In Fresno County, in Fresno, from 0.8 mile south of Cedar Avenue to 0.6 mile north of North Avenue. Alternative 4 for this project proposes to construct a Diverging Diamond Interchange (DDI) at the North Avenue overcrossing at Route 99. The utility involvement includes overhead electric lines, hydrants, street lights, telephone pedestals, service pedestals, underground electric, underground gas, underground telephone, underground water, underground sewer, manholes, and 1 canal crossing. The design engineer has estimated approximately 30 potholes to identify underground facilities.

General Description of Railroad Involvement:

BY: SANDRA SIFUENTES

No railroad facilities will be affected as the project stops 200' west of centerline of RR tracks.

is there a significant effect on assessed valuation	on: No	
Were any previously unidentified sites with haza	ardous waste or material found:	No
Are RAP displacements required:	No	
# of single family: 0 # of muliti-fam	nily: 0 # of business/nonprofit: 2	2 # of farms: 0
Sufficient replacement housing will be available	without last resort housing:	N/A
Are material borrow or disposal sites required:	No	
Are there potential relinquishments or abandonr	ments: Yes	
Are there any existing or potential airspace sites	No No	
Are environmental mitigation parcels required:	Yes	
Data for evaluation provided by:		
Estimator:	Cynthia Willems	12/6/2016
Railroad Liaison Agent:	Michelle Hernandez	12/1/2016
Utiltiy Relocation Coordinator:	Jason Aramburu	12/2/2016
have personally reviewed this Right of omplete and current, subject to the lin	f Way Sheet and all supporting information. niting conditions set forth.	I find this Data Sheet
	1 Nook	
Date	NICHOLAS G. DUMAS	
ENTERED PMCS 12/13/2016	Office Chief, Central Region	on Right of Way

Revised: 7/31/2015

Central Region Environmental Division Mitigation Compliance Cost Estimate (MCCE)

This MCCE is for: PI	EAR	-					. (,		
Dist - Co - Rte - PM; Project Name: Project Description:	Cedar / North I	nterchange				e-cont-springue u	Alte	EA ernative #	06-0H240_	
Env. Senior; Project Manager; MCCE Prepared By:		i8		Date:	7/17/2	015	Phone	Number:	559-445-5286 (559) 243-3443 (559) 445-6451	
		PA&ED 232 Dollars	FY		res or edits	R 050 I	OW Dollars	FY	Construction 042 Dollars	FY
Biological Monitoring									\$108,000	40/04
Hazardous Waste Bridge survey		\$15,000	19/20)				•	+,00,000	19/20
Paleontological Monitoring				-	***************************************			The second secon	\$75,000	40/0-
Permit Fees CDFW Document Filin	g Fee			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			\$2,210	17/18	470,000	19/20
et Maliana et en en en en en en en en en en en en en	TOTAL	\$15,000	***************************************	er for an tire strette	and the safety and Safety	**************************************	\$2,210	- 1 7 2 -	\$183,000	-ERSYS-THERMAN
Comments Biological monitoring cost	s are for precon	struction surve	ys for n	esting	birds/r	aptors.				

Approved By:	Environmental Branch Chief	Date:	07/31/15
if mitigation totals more than \$1,000,000:		Date:	
If Right of Way Capital (050) is needed:	Environmental Office Chief	Date:	1/15/16

ATTACHMENT

F

Department of Transportation District 6

TRANSPORTATION MANAGEMENT PLAN DATA SHEET

06-FRE 99-PM 16.9

INTERCHANGE MODIFICATION

PROJECT/EA NO: 0600020559-K/0H240 October 13, 2016

Prepared For: ARTHUR RAMIREZ, Design Senior

Office of Design I, Branch M

Prepared By: FLORENCIA ALLENGER

Concurred By:

Approved By:

JOEL AGUILAR, P.E.

District 6 – Traffic Management Chief

FLORENCIA ALLENGER

District 6 – TMP Manager

This Transportation Management Plan (TMP) data sheet is prepared in response to a request from Office of Design I, Branch M dated October 21, 2016.

Attached is the TMP Data Sheet for the above referenced project. Per Deputy Directive 60-R2, TMP must be considered at the early stage of all projects and activities performed on the State Highway System. The following items shall be included in the project initiation document (PID) and/or Project Report(PR):

- 1) The TMP Data Sheet shall be attached.
- 2) Any costs associated with the traffic impact mitigation measures listed in the TMP Data Sheet shall be included.
- 3) The following statements shall be included:

"Preliminary traffic impacts and mitigation for this project have been outlined in the attached Transportation Management Plan Data Sheet (TMP Data Sheet). Costs associated with the traffic impact mitigation measures listed in the TMP Data Sheet have been included in this documents estimate."

TMP Data Sheet

Project/EA No. 0600020559/0H240

Design Senior: Arthur Ramirez

Date: October 13, 2016

Cty/Rte/PM: Fre 99-PM 16.9 Office of Design I, Branch M

Page 2 of 2

"A TMP for this project is required and should be requested when the design is complete enough to determine specific traffic impacts, but yet early enough to make design changes/additions required for traffic mitigation."

"Lane requirement charts and detailed TMP will be provided during PS&E stage."

"Lane closures are not allowed when the traffic volume is beyond the capacity of the remaining lanes. Nighttime work outside peak hours is anticipated for this project."

If you have any questions, please feel free to contact Joel Aguilar at 559-779-6525 or Florencia Allenger at 559-488-4348.

Attachments:

- TMP Data Sheet

DISTRICT 6 - TRANSPORTATION MANAGEMENT PLAN

DATA SHEET

(TMP Elements and Costs)

CO/RTE		FRE	99	PM	16.9	PROJ. NO.	06000205
					10.5	EA. NO.	0H240
	PROJECT NAME	Cedar/North Interchange					
PROJECT LIMIT In Fresno on 99 at the North Avenue Interchange							
I	PROJECT DESCRIPTION	Interchange Modification					
A)	The project includes the following (Check all that applicable ty						
7 7 7	Highway or Freeway Lanes Highway or Freeway Should Freeway Connectors Full/Complete Freeway/High		\ \ \ \		y Off-ramps y On-ramps treets		
<i>B)</i>	Are there any construction s	strategies that can restore Yes (Check all applicable	_	-	f lanes?		
	Temporary Roadway Wident Structure Involveme Lane Restriping (Temporary Roadway Realignment (Deto Median and/or Right Should Use of HOV lane as Tempor Staging Alternatives (Explain	ent? narrow lane widths) our around work area) our Utilization ary Mixed Flow Lane	Yes	V	No (If yes, noti	ify Project Mana	ger)
<i>C</i>)	Calculated Delay (To be performed if construction on all projects along Inters		o not miti	gate cong	estion resulting	from Item A	:
1. 2. 3. 4.	Estimated Maximum Individ Existing or Acceptable Indiv Estimated Individual Vehicle Estimate Delay Cost (Most A Extended Weekend Weekly (7 days)	idual Vehicle Delay Delay Requiring Mitigation Applicable) Closure	on	·			minutes minutes minutes
5. 6.	Estimated Duration of Projec Cost of Construction Related						_# of Days =
		ed on X-Number of Workin alder/Ramp/Freeway/Highv	-	ıres:	340 Worki	ng Days	
	Total Working Days	s to Construct the Project:			440 Worki	ng Days	

TMP DATASHEET

PAGE 2 OF 2

Date:	October 13, 2010			Cnty/Rte:	FRE	99
Design Se				PM:	16.9	9 9
Branch:	M Office of Design:	I		Project/EA No:	0600020559	0H240
D)	Preliminary TMP Elements and cost: (I	dentify all elem	ents ar	d estimated costs that will be	e used to	
,	mitigate congestion resulting from the pro					
1	Parkita V. C				/W 4 % WP. P	
1.	Public Information (BEES #066063)	61 000	4.	Construction Strategies		to
닏	Brochures & Mailers	\$1,000	\Box	Elements Identified on It		
뇓	Press Release/Media Alerts	\$21,000	ш	Two-way Traffic On One	Side	100
닏	Paid Advertisements			Reversible Lanes		
닏	Public Information Center/Kiosks	•.	4	Ramp/Connector Closure		\$0
	Telephone Hotline	ft	V	Night Work	•	\$0
델	Planned Lane Closure Website	\$0		Extended Weekend Work		
	Project Website	Property of the		Ped/Bicycle Access Impro		
	Pubic Meetings			Maintain Business Access		
V	Freight Travel Information	\$0	7	C + T Bidding		\$0
				Innovative Construction T		
2.	Motorist Information Strategies		7	Coordination w/ Adj. Cons	struction Site	\$0
<u> </u>	Traffic Radio Announcements	\$0		Speed Limit Reduction		
	Fixed CMS			Traffic Screens		
V	Portable CMS (BEES #128650)	\$119,000				
	Temporary Motorist Information Signs		5.	Demand Management		•
V	Ground Mounted Signs (Detour)			HOV Lane/Ramps		•
	Dynamic Speed Message Sign	*		Variable Work Hours		
	Highway Advisory Radio			Telecommuting		
V	CT Hwy Infom. Network (CHIN)	\$0	П	Truck/Heavy Vehicle Rest	rictions	
	, ,		F	Rideshare Promotions		
3.	Incident Management		Ē	Ramp Metering		
7	Transportation Management Center	\$0	П	Transit Incentives		
	Traffic Management Team (TMT)		Ħ	Shuttle Services		
	Intelligent Transportation Systems		Ħ	Ridesharing/Carpooling In	centives	
Ħ	Traff. Surveillance (Loop & CCTV)		ă	Park & Ride Promotion	.001111 (05	
\Box	Helicopter Surveillance		L1			The state of the s
	Tow/Freeway		6.	Alternative Route Strate	ள்ள	
Ū	COZEEP (BEES #066062)	\$153,000		Off-site Detours/Use of Al		Section 1975
	COLLET (BEES NOOOOE)	. 9155,000	H	Signal Timing/Coord. Imp		
4.	Construction Strategies (In Addition to		H	Temporary Traffic Signals		
7.	Elements Identified on Item B)		H	Signal Retiming		
7	Lane Requirement Chart	\$0	H	Street/Intersection Improve	emonta	
	Construction Staging	\$0	H	Turn Restrictions	emems	1.1
	Traffic Handling Plans	\$0 \$0	H	Parking Restrictions		
	Full Facility Closures	3V	Ш	r arking restrictions		
	Local Road Closures	\$0	7.	Other Considerations		
	Lane Modifications	30	/.		alorias	ger gwarang
片				Application of New Techn	orogres	
	One-Way Reversing Operation		Ш	Other		5.5
		r		TOTAL ESTIMATED CO	ST OF TAGE	0204000
DD () TE/	CT NOTES:	<u>L</u>		TOTAL ESTIMATED CO	OI OF IMI	\$294,000
TICORE	ZIIOIES.					

- 1. Current dollar values used. Inflation was not factored into the estimate.
- 2. There are no noise restrictions / moratoriums for night work.
- 3. Traffic Control/Maintain Traffic costs was not provided. Please consult with the OE or construction office for this estimate.
- 4. Portable CMS specified for this project by this estimate is designed for congestion relief as outlined by DD-60. Portable CMS required for other purposes should be included under other specifications.
- 5. COZEEP specified for this project by this estimate is designated for congestion relief as outlined by DD-60. COZEEP required for other purposes should be included under other specifications.
- 6. The TMP is a living document that is subject to change if material changes take place in the final version of the project phase or if changes are required during construction to respond to excessive levels of congestion.

*The estimated cost will depend on the Design Engineer's and Office of Traffic Design's Estimate.

PREPARED BY:	OFFICE OF TRAFFIC OPERATIONS	DATE:
Florencia Allenger	OFFICE OF INAFFIC OF EXALIONS	October 13, 2016

ATTACHMENT G

October 2016

	Dist-County-Route: <u>06-Fi</u>	<u>re-99</u>		·			
	Post Mile Limits: 16.9/17.5 Type of Work: Interchange Modification Project ID (EA): 0600020559 (06-0H240K)						
Caltrans*	Program Identification: 4	100.100					
	Phase: ☑ PID	□ PA/	ED 🗆 PS	S&E			
Regional Water Quality Control	Board(s): Central Valley Re	gion (5F)					
Total Disturbed Soil Area: <u>50.5</u> 4	4 acres (Alt 1) Post Const	truction Treatm	nent Area: <u>38.</u>	38 acres			
Alternative Compliance (acres):	NA						
Estimated Const. Start Date: 1	2/01/25 Estimated	d Const. Comp	letion Date: <u>1(</u>	0/18/27			
Risk Level: RL 1 ⊠	RL2 RL3	WPCP	Other:				
Is the Project within a TMDL wa	tershed?		Yes □	No ⊠			
TMDL Compliance Units	s (acres):						
Notification of ADL reuse (if yes	. provide date): Yes F	□ Date:		No ⊠			
	,,			2.3			
Landscape Architect stamp req	uired at PS&E.			1.			
			10/14	/16			
Ellery Ellis, Registered Project E	ngineer			Date			
I have reviewed the stormwater	quality design issues and	find this repor	t to be comple	ete,			
current and accurate:	n.1 6	>	·	f			
	les la	res	10/1	7/16 Date			
	Neil Bretz, Project Manag	gen/		Date			
fo	Bill Moses, Designated M	laintenance Re	<i>lo - la</i> epresentative	8-16 Date			
•	Exix Oh		10-18				
	Brad Cole, Designated La Representative	indscape Arch	itect .	Date			
FO4 Parada da de 2005	A C			0/27/11			
[Stamp Required at PS&E only]	James Espinosa, District	Design SW Co	ordinator	Date			

ATTACHMENT H

PROJECT RISK MANAGEMENT PLAN

Dist - E.A

06-0H240_

Project Name

Co-Rte-PM Fre-99-16.7/17.5

Date

11/4/2016 Neil Bretz

Project Mngr

Telephone Number

		dentification itoring and Control							
(1) Priority	Status	ID#	Date Identified Project Phase (4)	Functional Assignment (5)		ist date changes made to risk and priments			
	Active	1	11/3/2016 PA&ED	Environmental	If invasive Permits to Enter cannot be obtained for Preliminary Site Investigation work, court orders wouthen be required which would possibaffect the schedule	11/3/2016			
	Active	2	11/3/2016 PA&ED	Environmental	If historic properties are indentified, t enviromental document schedule co be delayed.				
	Active	3	11/3/2016 Construction	Environmental	Bats or swallows found roosting on to overcrossings could delay construction schedule.	11/3/2016			
	Active	4	11/3/2016 Construction	Environmental	Nesting birds found during preconstruction surveys could delay construction activities.	11/3/2016			
		5	11/3/2016 PA&ED	Design	If southbound traffic exceeds 900 vp an auxiliary lane may be required, increasing the cost and R/W required	11/3/2016			
		- 1 S				per en en en en en en en en en en en en en			