

Level 2 - Risk Register						Project Name:	I-10 Interchange Improvements (East Ramsey Street and Main Street)					PM's:	Stacy Soewono Calvin Wong	
Risk Identification							Risk Assessment					Risk Response		
Status	ID	Location	Type	Category	Title	Statement	Probability	Cost Impact	Cost Score	Time Impact	Time Score	Strategy	Response Actions	
Active	1	Main	T	E	Section 106	Under the circumstances that historical properties are discovered on site of any construction project, additional consulting will be required.	2	1	2	4	8	Accept	Provide proper consulting when historical artifacts are found. Ensure that the local tribe is contacted to verify if the objects belong to them.	
Active	2	Both	T	E	Utility Relocation	Discovery of utilities within the construction site will require proper accommodations to maintain utility connections and operations for surrounding communities.	4	4	16	2	8	Mitigate	If any utilities are found, it should be brought to the attention of the utility company and properly addressed as to what will be done with their lines.	
Active	3	Both	T	E	Lead Based Paint	Usage or any handling of lead based paint (LBP) will require certification, specifically for intentional removal.	2	2	4	2	4	Accept	If it is found that LBP is found on or near the project site there should be proper storage and disposal of found materials.	
Active	4	Main	T	E	Hazardous Material Contamination	Under the circumstances that hazardous materials are discovered as result of the PSI, additional time and money will be required for reiew and testing,	2	4	8	8	16	Mitigate	Hazardous materials should be properly stored and taken care of during the construction phase to ensure mitigation of this.	
Active	5	Both	T	E	Water Contamination	Cut and Fill operations may lead to pollutants from Construction entering water sources in the surrounding area requiring a NPDES permit	3	4	12	8	24	Mitigate	Proper fencing and storage of Cut/Fill operations should be done to mitigate this problem	
Active	6	Both	T	E	Paleontology Discoveries	There is potential for paleontological resources will be discovered at project locations that will require additional project approvals, impacting both time and costs	1	4	4	16	16	Accept	If any paleontological resources are found, the proper authorities should be notified and the construction should be paused to allow pickup of said discoveries	
Active	7	Both	T	E	Nesting Birds	If nesting birds are found in the project work area, stop work order, work windows, and/or biological monitoring would be required, which could result in construction schedule delays and capital and support cost increases.	3	2	6	8	24	Accept	If any nesting birds are found, the project shall be stopped until they leave the area.	
Active	8	Both	T	E	Jurisdiction Errors	If the Jurisdictional Delineation (JD) Survey identifies more jurisdictional areas then assumed in this PEAR, then additional mitigation may be required.	2	8	16	4	8	Accept	Jurisdictional Delineation should be double checked during the surveying of project sites.	
Active	9	Both	O	T	Forecasting Data Inaccuracies	If newfound information in future design phases suggests alternative forecasting numbers, the project may be able to reexamine alternatives and further seek more optimal solutions	4	2	8	4	16	Mitigate	Verify in future phases that forecasting is an accurate depiction of future conditions and adjust metrics as necessary for alternatives.	
Active	10	Main	O	T	I-10 Alternative	The I-10 alternative has been identified as a necessary component when considering the Main interchange and thus any opinions regarding the treatment of the I-10 alternative will have to be considered, thus impacting the project as a whole	3	2	6	4	12	Mitigate	Address concerns of any stakeholders that present opinions concerning the treatment of the I-10 alternative utilizing engineering judgement to rationalize the acceptance or denial of suggestions	
Active	11	Both	O	T	Morongo Casino	Uknown projects dealing with the expansion of Morongo Casino and Resort could result in substantial changes to expected travel behaviors in the surrounding areas	3	2	6	2	6	Accept	Any additional information will be taken into consideration and applied to each alternative to evaluate the potential impacts.	
Active	12	Both	T	R/W	Condemnation	Under the circumstances that R/W can not be aquired, the condemnation process may need to be used, causing significant delays and costs	1	8	8	16	16	Mitigate	If condemnation is required, evaluate the possibility of adjustments to alternatives to weigh against the cost and time impacts of going through the process.	

Legend	
Symbol	Meaning
Type	
O	Opportunity
T	Threat
Category	
E	Environmentl
T	Traffic
D	Design
C	Community
R/W	Right of Way

Active	13	Both	O	C	Public Opinion	Public interest in the project may result in community pushes for certain additions or provision to the project be made.	4	4	16	8	32	Mitigate	Suggestions from the community are important consideration to make, but sever impacts to project costs and scedule that exceed an acceptable value will have to be rationalized to the public
Active	14	Both	T	D	Survey File	More accurate survey data could be uncovered that will require modifications to the design to accurately reflect the existing conditions of the sites	5	4	20	4	20	Mitigate	Prioritize the aquisition of accurate survey information to rectify alternatives vbefore furhter design work commences.
Active	15	Both	T	D	Geotechnical	A geotechnical investigation of the site can reveal new information concerning the feasibility of structures that may alter the design of facilities.	3	2	6	4	12	Mitigate	Geotechnical investigations should be completed early in future phases to ensure that design work is founded on accurate information.
Active	16	Both	T	D	Quantities	Quantities could be incorrectly estimated which will impact the cost estimations for each alternative	4	8	32	1	4	Mitigate	The inaccuracy of the quantities estimation should be accounted for in the budget through contingency.
Active	17	Both	T	E	Tortoise	If desert tortoises are found, there should be a relocation of the habitat, or if it is found that they are nesting, a stop work order should be issued and all work stopped until they leave.	2	2	4	2	4	Mitigate	There should be preliminary surveys conducted within the project areas to find if these are in our project area.
Active	18	Both	T	E	Joshua Trees	If any Joshua Trees are found, the relocation of these plants should be done prior to any construction.	2	2	4	2	4	Mitigate	There should be preliminary surveys conducted within the project areas to find if these are in our project area.

5	10	20	40	90
4	8		32	64
3	6	12	24	48
2		8		32
1				16

Low Risk
 Moderate Risk
 High Risk