



NJDOT RISK MANAGEMENT
EXAMPLE PROJECT RISK REGISTER

Pilot Project Use Only

Project Manager:	XXXX	Municipality(ies):	XXXX
Designer:	XXXX	County(ies):	XXXX
NJDOT Project Job No.:	XXXX	Initial Register Date:	XXXX
NJDOT UPC #:	XXXX	Last Register Update:	XXXX

Project Name:	Route ## over the XYZ River
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Risk Rank & ID		Risk Statement & Category			Risk Analysis Matrix						Risk Response Strategy & Response Planning				
Risk Rank	Unique ID #	Risk Statement	Risk Category		Risk Probability	Risk Impact		Schedule Score	Cost Score	Final Score	Risk Response Strategy	Risk Response Action Plan	Final Risk Owner	Action Plan Status	Risk Last Updated
			Initial Risk Owner	Risk May Occur In		Schedule	Cost								
1	1	As a result of Weather delays during construction which may occur, which would lead to schedule delays	Construction	Construction	5 - Very High	10 - Very High	4 - Moderate	50	20	70	Accept Threat	Have a contingency of 2 days not shown in the contract documents that will allow for unforeseen issues such as weather delays.	Contractor and NJDOT	Plan Implemented	4/9/2013
1	2	As a result of what can be considered a weather delay which may occur, which would lead to conflict regarding schedule time extensions	Construction	Construction	5 - Very High	10 - Very High	4 - Moderate	50	20	70	Accept Threat	Define in the specs that the RE will determine if the project is delayed due to weather. Since it is a 24hr schedule, allow for hourly delays with impacts to working crews. Give additional time to allow mob and demob detailed in the spec.	Contractor and NJDOT	Plan Implemented	4/9/2013
12	3	As a result of Prefabricated components not being manufactured properly which may occur, which would lead to delivery dates not being met	Construction	Construction	2 - Low	7 - High	1 - Very Low	14	2	16	Transfer Threat	Shop drawings must reflect as-built pile locations. Verification of dimensions by the contractor must be completed during fabrication of components.	Contractor	Plan Implemented	4/10/2013
5	4	As a result of Bridge demolition not going according to approved working drawings and taking longer than the anticipated 36 hours which may occur which would lead to NJDOT owning the schedule delay since the plan was approved by NJDOT	Construction	Construction	3 - Moderate	10 - Very High	1 - Very Low	30	3	33	Mitigate Threat	1.Require in the contract documents that the demolition plan must demonstrate how the demolition will be accomplished with the bridge being built within the 7 day closure period. 2.Require in the specs the demo plan must be submitted 90 days prior to the 7 day (168hr) closure period 3.Designer approves plans 30 days prior to closure	Contractor	Plan Implemented	4/10/2013
5	5	As a result of the bid date being delayed resulting in inadequate time to fabricate precast components prior to September 2012 which may occur, which would lead to schedule delays	Construction	Construction	3 - Moderate	10 - Very High	1 - Very Low	30	3	33	Mitigate Threat	The NJDOT must push to get the project out to bid since the community under no circumstances wants delays extending into the fall.	NJDOT	Plan Implemented	4/10/2013
10	6	As a result of Value Engineering Proposals which may occur, which would lead the 7 day closure for construction completion not being met	Project Management	Construction	2 - Low	10 - Very High	1 - Very Low	20	2	22	Avoid Threat	Do not approve any submittal that is not in accordance with section 104.02.01 of the stdn specs which require that any value engineering proposal made must conform to the construction schedule which is 7 day (168 hours) closure period on this project.	Designer and NJDOT	Plan Implemented	4/10/2013
13	7	As a result of Components being damaged or delayed during delivery which may occur, which would lead to schedule delays	Construction	Construction	2 - Low	4 - Moderate	2 - Low	8	4	12	Mitigate Threat	All components should be delivered prior to the 7-day closure period. If the components are damaged and need repair/replacement, then closure period will move to another week.	Contractor	Plan Implemented	4/10/2013
17	8	As a result of the Contractor not being able to secure an adequate material storage location near the project site which may occur, which would lead to project delays	Construction	Construction	2 - Low	2 - Low	2 - Low	4	4	8	Transfer Threat	There are a number of empty locations and parking lots that the contractor will have to negotiate with the various owners to obtain clearance for material storage. It is a low probability that none will allow storage.	Contractor	Plan Implemented	4/10/2013
16	9	As a result of Grout used for prefabricated substructures not meeting required 24 hour strength requirements which may occur, which would lead to schedule delays	Construction	Construction	1 - Very Low	10 - Very High	1 - Very Low	10	1	11	Transfer Threat	Verify the are adequate products on the qualified product list that meet the necessary requirements.	Contractor	Plan Implemented	4/10/2013
13	10	As a result of Precast abutments being out of alignment when placed on piles which may occur, which would lead to improper construction and delays	Construction	Construction	2 - Low	4 - Moderate	2 - Low	8	4	12	Mitigate Threat	Allow the design of the bearing seat to be slightly oversized to compensate for the misaligned abutments.	Contractor and Designer	Plan Implemented	4/10/2013
13	11	As a result of Prefabricated superstructure units being out of alignment when placed on bridge which may occur, which would lead to improper construction and delays	Construction	Construction	2 - Low	4 - Moderate	2 - Low	8	4	12	Mitigate Threat	Allow the design of the bearing seat to be slightly oversized to compensate for the misaligned abutments.	Contractor and Designer	Plan Implemented	4/10/2013
5	12	As a result of the on site cranes malfunction requiring new cranes to be brought in which may occur, which would lead to schedule delays	Construction	Construction	3 - Moderate	10 - Very High	1 - Very Low	30	3	33	Mitigate Threat	Identify if a backup crane is available and the mobilization time required prior to bridge demolition. Prepare a design that allows for a standard size crane to be used so a replacement can readily be found.	Contractor	Plan Implemented	4/10/2013
5	13	As a result of Ultra High Performance Concrete for closure pours on deck and approach slabs not mixed properly resulting in 24 hour cure times not being met which may occur, which would lead to schedule delays and material malfunction	Construction	Construction	3 - Moderate	10 - Very High	1 - Very Low	30	3	33	Accept Threat	Manufacturer representatives must be on site to verify proper procedures used.	Contractor	Plan Implemented	4/9/2013
3	14	As a result of the prefabricator requiring more than the 5.5 months allotted in the schedule for fabrication due to unforeseen delays in material deliveries or backlog in orders which may occur, which would lead to schedule delays	Construction	Construction	5 - Very High	10 - Very High	1 - Very Low	50	5	55	Accept Threat	Have a contingency of 2 days not shown in the contract documents that will allow for unforeseen issues.	Contractor and Designer	Plan Implemented	4/9/2013
11	15	As a result of the Contractor proposing to use materials not on the qualified product list which may occur, which would lead to delays in material deliveries	Construction	Construction	3 - Moderate	4 - Moderate	2 - Low	12	6	18	Mitigate Threat	Verify there are adequate products on the qualified product list for the contractor to choose from.	Contractor	Plan Implemented	4/10/2013
5	16	As a result of Utilities not moved in adequate time for construction which may occur, which would lead to schedule delays	Construction	Construction	3 - Moderate	10 - Very High	1 - Very Low	30	3	33	Mitigate Threat	Have advance utility relocations take place removing this item from the critical path	Designer and NJDOT	Plan Implemented	4/9/2013
4	17	As a result of a Contractor with a poor performance record or inexperienced winning the project which may occur, which would lead to poor construction and overall project delays and claims	Construction	Construction	2 - Low	10 - Very High	10 - Very High	20	20	40	Mitigate Threat	Since this was a complex project with a overall small project cost, the approved Work Types must be carefully chosen to weed out inexperienced contractors. This was done using work types for Heavy Highway and Precast segmental bridge construction	NJDOT	Plan Implemented	4/10/2013