Wisconsin Department of Transportation Guidance Matrix for Project Organization, Tools, Management, and Reporting

This matrix lists key management resources and strategies that are critical to the success of any project while highlighting how those items differ between standard or typical improvement projects, higher profile projects and Mega projects. This matrix is intended to guide the Department's decision-making process as it considers the best approach to manage a growing number of significant and high profile projects. For the Best Practices and definitions of the Key Program Processes refer to the following: WisDOT/FHWA Mega Process, Best Practices (Mega Project Guidelines, Public Involvement, Project Types*

	Best Practices Matrix	_					Ney Flogram Flocesses feler to the following. WISDOT/Frive Mega Flocess, best Flactices (Project Types*			
And the set of t		/	Desit	an sonstru	FINAN	5 ³⁰ 00 0	Jule Definition	Standard	(typically \$100-	Mega (> \$500M)	
aba: Aba: <t< th=""><th>Balancing Contract Modifications</th><th></th><th></th><th></th><th></th><th></th><th>Used to account for the overrun/underrun of quantities during a multi-year project. Allows for financial adjustments midway through a contract on quantities that are expected to either overrun or underrun by the completion of the</th><th>No</th><th>Possible</th><th>Possible</th></t<>	Balancing Contract Modifications						Used to account for the overrun/underrun of quantities during a multi-year project. Allows for financial adjustments midway through a contract on quantities that are expected to either overrun or underrun by the completion of the	No	Possible	Possible	
webwebNo<			x	x				Possible	Yes	Yes	
unit of the second s	hange Mangagement	x	x			x		Standard	Intermediate	Required	
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constrained constrained <thconstrained< th=""> <thconstrained< th=""></thconstrained<></thconstrained<>		x	x	x	x			No	Possible	Likely	
space space <th< td=""><td></td><td>x</td><td></td><td></td><td></td><td></td><td>The development of a build out budget cost in year of expenditure values for a project or program. Includes risk &</td><td>No</td><td>Yes</td><td>Required</td></th<>		x					The development of a build out budget cost in year of expenditure values for a project or program. Includes risk &	No	Yes	Required	
maintainformation sin a sin a maintainformation	esign Liaison Contract	x	x				Contract with the design consultant to answer plan questions during construction and to provide design through	No	Possible	Yes	
constraintNNN	-	x	x				Mentoring programs to assist DBE firms through the certification and bidding process as well as educational	Standard	Intermediate	High	
under statistics $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ $3 <$ 3			x				Established after execution of the contract to render decisions on unresolved claims quickly and impartially during	No	Possible	Yes	
Non-the Control γ_{1} γ_{2} γ_{2	ispute Resolution Process	x	x			x	A process used to resolve claims that cannot be resolved through the Real-Time Claims Management Process in a		Possible	Yes	
unit unit< <t< td=""><td>Ocument Controls</td><td>x</td><td>x</td><td>x</td><td>x</td><td></td><td>A framework or system to provide collection, storage, and distribution of information for timely and effective decision-</td><td></td><td>Intermediate</td><td>High</td></t<>	Ocument Controls	x	x	x	x		A framework or system to provide collection, storage, and distribution of information for timely and effective decision-		Intermediate	High	
and the state of the state	Documenting Decisions	x	x		x		Database to record and track decisions made on a project in order to provide for consistency in decision making	No	Possible	Required	
Alt and a set below in the set below in the set of the set o			x				Project control technique for measuring progress and performance. Schedule Performance Index (SPI) and Cost		Monthly	Monthly	
Name Nome Nom< Nome Nome Nome	Scrow Bid Documents	x					Require the lowest responsible bidder to submit the documents they used to determine the costs shown in their bid into escrow. These remain sealed unless the bidder and the department mutually agree to release the documents to	milestones	-	-	
mail mail <th< td=""><td>ederal Financial Plan</td><td></td><td></td><td>x</td><td></td><td></td><td>assurance that there will be sufficient financial resources available to implement and complete the project as planned.</td><td>No</td><td>Simplified Plan</td><td>Required - Detai Plan Approved by F</td></th<>	ederal Financial Plan			x			assurance that there will be sufficient financial resources available to implement and complete the project as planned.	No	Simplified Plan	Required - Detai Plan Approved by F	
Instant Image	ssues, Risk & Complexity	x	x					Low	Medium	High	
mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark mark	T Innovation	x	x				rule, and statutory consideration are involved. Decision making can involve areas outside the Department. IT	Standard	Standard	Standard	
mining N N N N N N N N rpl cubuckey S		x	x					Contact Risk Manager	Contact Risk Manager	Contact Risk Man	
Non-Maximum No. No. No. No. Processe Processe <td>Partnering</td> <td>x</td> <td>x</td> <td></td> <td></td> <td></td> <td>issues are discussed and resolutions reached.</td> <td>No</td> <td>Possible</td> <td>Yes</td>	Partnering	x	x				issues are discussed and resolutions reached.	No	Possible	Yes	
Note No N	Pay Plan Quantity	x					rather paid as identified in the contract. Recommended to be used on quantities that can be estimated accurately, are	Possible	Possible	Yes	
mage and controls No.	Peer Review Committee	x	x			x	needs, meet the standards of professional practice, and/or meet federal, state or local planning requirements. Potential for a decision making board to aide in policy and change managment decisions as well as schedule changes	Standard	Elevated	High	
respect Degree Topologyis <td>Program Controls</td> <td>x</td> <td>x</td> <td>x</td> <td></td> <td></td> <td>issues. Program Controls are generally in-house or a part of prime consultant's contract. Plan reviews should be</td> <td>Standard</td> <td>Intermediate</td> <td>High</td>	Program Controls	x	x	x			issues. Program Controls are generally in-house or a part of prime consultant's contract. Plan reviews should be	Standard	Intermediate	High	
regionAmagementAA	Project Design Manual	x			x			No	Possible	Yes	
Instrume Instrum Instrume Instrume	Program Management	x	x	x	x	x	schedule controls and contract management. See Management System	Region	Region + possible extra	Extra dedicated s	
right Control right N right N right N <td></td> <td>x</td> <td>x</td> <td>x</td> <td></td> <td></td> <td>information to the project decision makers to effectively manage the scope, costs, schedules, and quality of, and the Federal requirements applicable to, the project; and (2) the role of the agency leadership and management team in the delivery of the project. See examples Zoo PMP and 441 PMP. See Mega Project Management Expectations Source: FHWA Innovative Delivery site</td> <td></td> <td>Possible</td> <td>Required</td>		x	x	x			information to the project decision makers to effectively manage the scope, costs, schedules, and quality of, and the Federal requirements applicable to, the project; and (2) the role of the agency leadership and management team in the delivery of the project. See examples Zoo PMP and 441 PMP. See Mega Project Management Expectations Source: FHWA Innovative Delivery site		Possible	Required	
repart Hed Office X	Project Controls	x	x	x	x		Project Controls are generally in-house or a part of a prime consultant's contract. Plan reviews should be completed by	Standard	Intermediate	High	
regeter packed to compare in a set of a	Project Field Office	x	x					Standard Field Office		WisDOT facility wi and office furninsh	
roper through in the set of multiple and varied statistic consideration and indication of multiple and varied statistic consideration and decision Standard Standard Standard uplic Currence x x x z <t< td=""><td>Projecting Cost to Complete</td><td></td><td>x</td><td>x</td><td></td><td></td><td>work scheduled, over/underrun quantities, design fees, public outreach, approved contract modifications, and</td><td>Quarterly</td><td>Monthly</td><td>Monthly</td></t<>	Projecting Cost to Complete		x	x			work scheduled, over/underrun quantities, design fees, public outreach, approved contract modifications, and	Quarterly	Monthly	Monthly	
Value Value <th< td=""><td>Project Innovation</td><td>x</td><td>x</td><td></td><td></td><td></td><td>procedure, specifications, administrative rule, and statutory consideration are involved. Consideration and decision</td><td>Standard</td><td>Standard</td><td>Standard</td></th<>	Project Innovation	x	x				procedure, specifications, administrative rule, and statutory consideration are involved. Consideration and decision	Standard	Standard	Standard	
value x <td>ublic Outreach</td> <td>x</td> <td>x</td> <td></td> <td></td> <td></td> <td></td> <td>Standard</td> <td>Elevated</td> <td>High</td>	ublic Outreach	x	x					Standard	Elevated	High	
eports x <td>uality Assurance</td> <td>x</td> <td>x</td> <td></td> <td>x</td> <td></td> <td></td> <td>Region</td> <td>Region + possible extra</td> <td>Extra dedicated s</td>	uality Assurance	x	x		x			Region	Region + possible extra	Extra dedicated s	
x x	Reports		x	x			2. Executive Summary	1. February & August 2. No	1. February & August 2. Monthly		
testerve Budgets X X X X X X Modifications, and required scope changes. Standard Yes Yes toad Safety Adults (RSA) X X X X X X X X PMA guidance at http://safety.fMwa.dot.gov/rsa/. Some projects ahould require contractor to utilize Critical Path and 44.11 RSA No Possibly Possibly theduling X X X X X X X X A planning framework for tracking program delivery. Mega projects ahould require contractor to utilize Critical Path scheduling. (DPM) software and submit a schedule that critical path of activities. PMP Critical Path Soft (Primaver PP) taffing X X X X X X See Example Chart and WBDOT example SWR DRG Chart. Seestaffing Roles and Responsibilities. Region and Bureaus Possible extra Extra decicated: track Overun/Underrun luantties X X X X X X X Yes Yes raffic Mitigation Plan X X X X X X X X X X X X X X X X <	Risk Worshop	x					design, traffic control, etc.) to identify project risks and develop well-written description of risks. A risk is an uncertain event or condition that if it occurs has negative or positive effect on a project's objectives. Risk workshops shall be held approximately 2 months before each respective Cost Estimate Review (CER).			Suggested - no	
totad Safety Adults (RSA) x<	Reserve Budgets	x	x	x		x		Standard	Yes	Yes	
x x	load Safety Aduits (RSA)	x						No	Possibly	Possibly	
taffing x </td <td>cheduling</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td></td> <td>A planning framework for tracking program delivery. Mega projects should require contractor to utilize Critical Path scheduling (CPM) software and submit a schedule that reflects the plan for their performance of the work within the</td> <td>PMP</td> <td>Software (Primavera</td> <td></td>	cheduling	x	x	x	x		A planning framework for tracking program delivery. Mega projects should require contractor to utilize Critical Path scheduling (CPM) software and submit a schedule that reflects the plan for their performance of the work within the	PMP	Software (Primavera		
Card of any endertaint x discuss with contractor. Possible Possible Yes Yes raffic Mitigation Plan x	taffing	x	x	x	x		See Example Chart and WisDOT example SWR ORG Chart. SeeStaffing Roles and Responsibilities,	Region and Bureaus	Possible extra	Extra dedicated s	
raffic Mitigation Plan Image: Normal Standard Standard Elevated Required alue Engineering X X X X X X Safe and efficient movement of traffic through construction zones. Developed as part of TMP. Standard Elevated Required alue Engineering X X X X X Value Engineering (VE) is a systematic process for creatively enhancing the value of a project. NE is the application of a step-by-step, systematic job plan based on specific industry-wide standards that are defined by the Society of American Value Engineering Program is documented in its Facilities Development Manual. http://roadwaystandards.dot.wi.gov/standards/fdm/01-15.pdf Possible Yes Source: Transportation Finance & Policy Commission - "Value Engineering - A Primer" Numeric - A Primer" Numeric - A Primer" http://roadwaystandards.dot.wi.gov/about/tfp/docs/mtg7-value.pdf A project's web presence is dictated by its size. Smaller projects are profiled on the WisDOT website; mega projects Ves			x	x	x		discuss with contractor.	Possible	Yes	Yes	
ralue Engineering X X Administration (FHWA) requires VE on all highway projects over \$50 million and all bridge projects. VE is the application of a step-by-step, systematic job plan based on specific industry-wide standards that are defined by the Society of American Value Engineering ACM/VIL-15.pdf Possible Yes Yes Yes Yes Ves Ves Ves Yes Yes Value A project's web presence is dictated by its size. Smaller projects are profiled on the WisDOT website; mega projects Ves Yes Yes	raffic Mitigation Plan		x					Standard	Elevated	Required	
turies to have significant uphaites. Dreisste with uphaites utilize the 514 web system on a platform	alue Engineering	x					Administration (FHWA) requires VE on all highway projects over \$50 million and all bridge projects over \$40 million, with additional study requirements for major highway and bridge projects. VE is the application of a step-by-step, systematic job plan based on specific industry-wide standards that are defined by the Society of American Value Engineers (SAVE). WisDOT's Value Engineering Program is documented in its Facilities Development Manual. http://roadwaystandards.dct.wi.gov/standards/fdm/01-15.pdf Source: Transportation Finance & Policy Commission - "Value Engineering - A Primer"	Possible	Yes	Yes	
	Nebsite	x	x					DOT Plans & Projects	511	511	

* Project Types:

Standard: Routine improvement projects that follow normal staffing and management procedures. Individual project characteristic(s) may be unique and at times justify additional resources, management tools and reporting.

High Profile: Projects that are high cost, unusually complex or have a high level of public or congressional interest. Individual project characteristics may justify additional specialized staff and management positions, as well as additional processes and reporting tools to be used. Examples of these types of projects could be significant urban freeway rehabilitation or high cost bridges.

Mega: Projects that meet the federal major project definition. These are typically a small number of the state's highest profile and highest risk projects. A Mega project requires a larger investment of Department staff time, resources and reporting tools to ensure effective management and control of the project.