

STAGE 1 CONSTRUCTABILITY REVIEW RECOMMENDATIONS

PROJECT MANAGER CONTACTS CONSTRUCTION MANAGER, MAINTENANCE MANAGER AND LAND ACQUISITION, UTILITIES, AND ENVIRONMENTAL FUNCTIONAL MANAGERS THREE WEEKS PRIOR TO STAGE 1 REVIEW TO COORDINATE TIME AND PLACE.

PROJECT MANAGER CONTACTS AREA ENGINEER (CONSTRUCTION MANAGER) THREE WEEKS PRIOR TO THE REVIEW TO COORDINATE TIME AND PLACES.

STAGE 1 PLANS ARE 25% COMPLETE. IN THIS REVIEW THE FOUR CRITERIA ARE PLANS, SITE INVESTIGATION, UTILITIES AND RIGHT OF WAY, AND GENERAL CONSIDERATIONS.

STAGE 1 DOCUMENTS

- **STAGE 1 PLANS**
- **ENVIRONMENTAL SUMMARY (DRAFT DOCUMENT)**
- **DESCRIPTION OF ALL PERMITS NEEDED**
- **FIRM LINE/GRADE/GEOMETRIC LAYOUT**
- **ABBREVIATED ENGINEER'S ASSESSMENT**
- **DESIGN EXCEPTION**
- **MAINLINE CULVERT HYDRAULICS REPORT**
- **BRIDGE HYDRAULICS REPORT**
- **BRIDGE STRUCTURE ECONOMIC ANALYSIS**
- **COST ESTIMATE**
- **COMMITMENT REPORT**

COMMONLY MISSED ITEMS TO CHECK

- **THE DESIGNER SHOULD HAVE SOME INDICATION OF WHAT PERMITS WILL BE NEEDED FOR THE CONTRACT AT 25% PLANS. IF THIS INCLUDES THE GEOMETRIC LAYOUT THEN IMPACTS SHOULD BE DETERMINED. THE DESIGNER SHOULD COMPILE A LIST OF PERMITS WHICH MAY BE PERTINENT AT THIS TIME. (USACE, RGP, NWP, ETC) ALTHOUGH THE DESIGNER CANNOT APPLY AT THIS POINT DUE TO THE LIMITED AMOUNT OF DETAILS, ALL PERMITS SHOULD BE DISCUSSED AND LISTED SO THAT ADDITIONAL PERMITS CAN BE ADDED OR OTHER PERMITS CAN BE OMITTED IN THE FUTURE.**
- **THE EXISTING RIGHT OF WAY (IF APPLICABLE) SHOULD BE SHOWN AT THIS POINT. INDOT SHOULD VERIFY THAT THE RIGHT OF WAY SHOWN ON THE 25% PLANS IS ACTUALLY OWNED BY INDOT. IF NOT, AND THIS DOES HAPPEN, THERE WILL BE TIME TO REMEDY THIS DURING THE NEW RIGHT OF WAY PROCUREMENT.**
- **VERIFY THE STRUCTURE OF THE EXISTING ROAD WAY, DO CORES OF THE EXISTING PAVEMENT AND SHOULDER NEED TO BE TAKEN? IF SO, AT WHAT LOCATIONS SHOULD CORES BE TAKEN? THE EXISTING PAVEMENT MAY AFFECT MOT, PAVEMENT REMOVAL, ETC.**



**INDIANA DEPARTMENT OF TRANSPORTATION
LEVEL 2**

**PROJECT CONSTRUCTABILITY REVIEW 1
STAGE 1 PREVENTATIVE MAINTENANCE PLAN REVIEW**

PROJECT MANAGER/CONSTRUCTION MANAGER/MAINTENANCE MANAGER

PRIMARY DES No. _____ **CONTRACT No.** _____

ROUTE _____ **DISTRICT** _____

WORK TYPE _____ **RFC DATE** _____

PROJECT LOCATION _____

PROJECT DESCRIPTION _____

COUNTY/CITY/TOWN _____ **DESIGNER** _____

PROJECT MANAGER _____ **MAINTENANCE MANAGER** _____

CONSTRUCTION MANAGER _____ **DATE** _____

EVALUATION OF PROJECT CONSTRUCTABILITY QUALITY

CONSTRUCTABILITY		Y	N	N/A	NOTE	FLAG
A. SITE INVESTIGATION						
*	1. IS THE LOCATION SURVEY COMPLETE? DOES IT INCLUDE HORIZONTAL AND VERTICAL CONTROL?					
*	2. IS THERE ADEQUATE ACCESS TO THE CONSTRUCTION SITE?					
*	3. ARE THERE AREAS WHERE THE ALIGNMENT CAN BE IMPROVED?					
*	4. IF SHOULDER WILL BE USED TO CARRY TRAFFIC DURING STAGED CONSTRUCTION, ARE THEY WIDE ENOUGH? STRUCTURALLY ADEQUATE? OR SHOULD RECONSTRUCTION BE REQUIRED?					
*	5. DOES THE EXISTING PAVEMENT HAVE A CONCRETE BASE THAT IS NOT SHOWN?					
*	6. WILL SAWED JOINTS BE REQUIRED FOR PAVEMENT REMOVAL?					
*	7. ARE THERE HAZARDOUS MATERIALS ON THE PROJECT?					
*	8. IF STAGED CONSTRUCTION, ARE DETOURS REQUIRED?					
*	9. DOES LOCALITY HAVE NOISE LIMITS THAT RESTRICT NIGHT WORK?					
*	10. WHAT ARE THE LOCATIONS OF GEOTECH INVESTIGATIONS? WHEN WERE THEY TAKEN?					
*	11. HAS GEOTECH TAKEN CORES OF THE EXISTING PAVEMENT AND SHOULDER TO VERIFY THE STRUCTURE OF THE EXISTING ROADWAY? WHERE WERE CORES TAKEN?					

Project Constructability Review (Field Check)

* - Item related to consultant designer evaluation

Y - Yes, N - No, NA - Not Applicable, Note - See note number, Flag - Item requires priority attention

	Y	N	N/A	NOTE	FLAG
B. PLANS					
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C. UTILITIES AND R/W					
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Project Constructability Review (Field Check)

* - Item related to consultant designer evaluation

Y - Yes, N - No, NA - Not Applicable, Note - See note number, Flag - Item requires priority attention

	Y	N	N/A	NOTE	FLAG
* 3. ARE THERE UTILITIES THAT WILL BE IMPACTED?					
* 4. CHECK FOR OVERHEAD UTILITY CONFLICTS.					
* 5. IS EXISTING RIGHT-OF-WAY AND PROPERTY LINE DETERMINATION COMPLETE?					
* 6. IS THERE ENOUGH ROOM FOR ALL PERMANENT RETAINING WALL ELEMENTS TO FIT WITHIN THE PROPOSED R/W?					
* 7. DO THE STRUCTURES FIT IN THE R/W?					
* 8. IS THERE ENOUGH WORK ROOM TO BUILD THE STRUCTURES ON THE R/W?					
D. GENERAL CONSIDERATIONS					
* 1. HAVE CONFLICTS WITH OTHER PROJECTS IN AREA BEEN IDENTIFIED?					
* 2. IS THERE ADEQUATE ACCESS TO THE CONSTRUCTION SITES?					
* 3. CAN ANY IMPROVEMENT BE MADE IN THE ALIGNMENT?					
* 4. DOES EXISTING PAVEMENT HAVE A CONCRETE BASE?					
* 5. WILL SAWED JOINTS BE REQUIRED FOR PAVEMENT REMOVAL?					
* 6. IS THERE SUFFICIENT CLEARANCE IN THE WORK ZONE FOR CONSTRUCTION OPERATIONS?					
* 7. IF STAGED CONSTRUCTION, WILL DETOURS BE REQUIRED?					
* 8. WILL SCHOOL BUSES, MAIL CARRIERS, FIRE TRUCKS, EMERGENCY VEHICLES, OR OTHER LOCAL TRAFFIC REQUIRE SPECIAL MAINTENANCE OF TRAFFIC OPERATIONS?					
* 9. ARE THE NECESSARY RESTRICTIONS (LANE CLOSURES, HOURS OF OPERATIONS, HOLIDAY, WEEKEND AND MAJOR EVENTS RESTRICTIONS) INDICATED?					
* 10. CAN LEFT OR RIGHT TURN LANES BE MAINTAINED DURING CONSTRUCTION? OR CAN THEY BE CLOSED DURING CERTAIN PHASES?					
* 11. WILL TEMPORARY SIGNALS BE REQUIRED?					
* 12. IS THE PROJECT COMPATIBLE WITH FUTURE WIDENING PROJECTS?					
* 13. HAS THE DESIRED COMPLETION DATE BEEN IDENTIFIED OR LETTING DATE APPROPRIATE?					

Project Constructability Review (Field Check)

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Y - Yes, N - No, NA - Not Applicable, Note - See note number, Flag - Item requires priority attention

