

January 21, 2010

**SCOPE OF WORK
PROJECT SPECIFIC**

CONTRACT TYPE: Project Specific /Non Task Specific

CONTRACT DATE: January 21, 2010

PROJECT NUMBER: 16760

PROJECT LOCATION: I-70 Mountain Corridor/Clear Creek

PROJECT CODE: IM 0703-342

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SECTION 1 PROJECT SPECIFIC INFORMATION

1.01 Planned Improvements. The general planned improvement is:

To develop a Sediment Control Action Plan (SCAP) for the entirety of Clear Creek that is in proximity to I-70 to address sediment management from roadway maintenance activities and natural erosion to Clear Creek.

1.02 Project Goals. This project is intended to produce the following improvements:

- Understand and attempt to quantify sources of sediment and their impacts on stream and riparian health,
- Identify and prioritize conceptual methods of controlling natural erosion,
- Identify and prioritize conceptual methods of collecting sediment from natural erosion and roadway maintenance activities,
- Develop conceptual designs and quantity and cost estimates for sediment control measures (i.e. temporary and permanent best management practices),
- Review and compile documentation on how Magnesium Chloride might affect stream and riparian health.

1.03 Project Location. The project limits encompass the entire length of Clear Creek which is in proximity to I-70 (approx. MP 214.5 to approx. MP 245).

1.04 Project Cost. The design cost for this project is estimated at \$300,000.

1.05 Work Duration. The time period for the work described in this scope is approximately 550 calendar days.

1.06 Consultant Responsibility.

CDOT has made a commitment to employ Context Sensitive Solutions (CSS) on all projects in the I-70 Mountain Corridor. The project will require the consultant to implement CSS as delineated in the *I-70 Mountain Corridor Guidance* and to coordinate with various stakeholders. It is the Consultants responsibility to demonstrate in the single page Work Plan Appendix their understanding of the *Guidance*, the 6-Steps, and how they will be used on this project.

The consultant will work with the established Project Leadership Team (PLT) to develop a Sediment Control Action Plan (SCAP) for Clear Creek utilizing CSS principles. Final scope and details of the SCAP will be developed and refined through the PLT.

1.07 Work Product. The Project Team work products are:

- Inventory of existing information
- Site reconnaissance
- Interim Reports
- Meeting minutes
- Critical Path Method (CPM) Schedule for completion of the Sediment Control Action Plan
- Cost Estimate for conceptual design
- Final Sediment Control Action Plan with conceptual recommendations

Detailed work product requirements are described in the following sections.

1.08 Work Product Completion. All submittals must be accepted by the PLT and CDOT Contract Administrator or their designee.

1.09 Additional Project Information. Additional information regarding this project is included in the following documents:

- *I-70 Mountain Corridor Draft Programmatic Environmental Impact Statement (I-70 DPEIS)*
- *Straight Creek Sediment Control Action Plan*
- *Black Gore Creek Sediment Control Action Plan*
- *Evaluation of Alternative Anti-icing and Deicing Compounds Using Sodium Chloride and Magnesium Chloride as Baseline Deicers - Phase I.* Colorado Department of Transportation, Report No. 2009-1, February 2009.
- *Clear Creek Watershed Management Agreement—2008 Annual Report to the CO Water Quality Control Commission, August 2009* (link <http://www.standleyswp.com>)

Copies of these documents may be obtained from the CDOT Contract Administrator or their designee.

1.10 Scope of Work Organization

This draft scope of work has been reviewed by the Department and reflects a plan of approach based on the known goals. One factor determining the selection of a Consultant is the ability of that consultant to analyze the project goals, evaluate the work elements, and formulate a work plan that utilizes the established PLT. This process may produce new approaches or modification to the project work elements. Because of that, all consultants should be aware that the Final Scope of Work for a project will be produced with input from the selected Consultant.

SECTION 2 PROJECT MANAGEMENT AND COORDINATION

2.01 CDOT Contacts. The Contract Administrator for this project is:

Peter Kozinski
CDOT Region 3 Resident Engineer
714 Grand Avenue
Eagle, CO 81631
Phone: 970-328-6385

2.02 Project Coordination. Coordination will be required with, but not limited to, the following known agencies:

- SWEEP Committee
- ALIVE Committee
- PEIS Team
- Trout Unlimited
- Upper Clear Creek Watershed Foundation
- Standley Lakes Source Water Protection
- Loveland Ski Area
- Northglenn Ditch Company
- Town of Silver Plume
- Town of Georgetown
- Town of Idaho Springs
- Clear Creek County
- Clear Creek County
- Utility Companies (Xcel Energy, Qwest and Comcast)

The Consultant should anticipate that a design that affects an agency will need to be accepted by that agency prior to its acceptance by the Colorado Department of Transportation. Submittals to affected agencies will be coordinated with CDOT. Above is a list of known agencies. It should not be considered as complete.

SECTION 3 PROJECT DESCRIPTION

3.01 Background

Clear Creek is an approximately 60 mile long tributary to the South Platte River which starts at the continental divide near Loveland Pass. The creek descends eastward through the towns of Silver Plume, Georgetown, and Idaho Springs before passing through Clear Creek Canyon. At the mouth of the canyon, the creek passes through the town of Golden and through the northwest part of the Denver Metropolitan area through north Lakewood, Wheat Ridge and roughly along the route of Interstate 76 until it joins the South Platte in southeast Thornton. This project will include the portion of Clear Creek that is in proximity to I-70 (approx. MP 214.5 to MP 245).

Excessive sediment loading has been occurring in Clear Creek, especially in the areas where Clear Creek is directly adjacent to a roadway. The sedimentation is caused by both cut and fill slope erosion and winter maintenance practices, when the roads are sanded for traction to maintain safety to the traveling public.

The consultant shall address the project goals (see Section 1.02) in a Sediment Control Action Plan (SCAP) for the project area and coordinate the proposed improvements with the I-70 Mountain Corridor Programmatic Environmental Impact Statement.

3.02 Project Limits

The project limits encompass the entire length of Clear Creek in proximity to I-70 (approx. MP 214.5 to approx. MP 245).

3.03 Work Elements

The consultant will develop a Sediment Control Action Plan (SCAP). The work will include but not be limited to the following:

- | | |
|--------------------------------|--|
| a. Public Relations | Follow CSS principles regarding stakeholder involvement. |
| b. Specialized Design | Complete all specialized design elements necessary to complete the SCAP. |
| c. Administrative Support | Provide clerical and word processing support as well as assist with exhibits and meetings. |
| d. Context Sensitive Solutions | Apply the Context Sensitive Solutions (CSS) |

SECTION 6 GENERAL INFORMATION

6.01 Authorization to Proceed. Work will not commence until the written Notice-to-Proceed is issued by the State with certification from the Consultant that the work will be completed within the allotted time. The time charged will be exclusive of time lost for:

- a. Reviews and Approvals.
- b. Delays in not receiving responses/direction.
- c. Work may be required, night or day, on weekends, on holidays, or on split shifts.

CDOT must concur in time lost reports prior to the time lost delays being subtracted from time charges.

6.02 Project Coordination. The routine working contact will be between the CDOT Project Manager (CDOT/PM) and the Consultant Project Manager (C/PM) as defined in Attachment C. Each Project Manager will provide the other with:

- a. Written synopses or copy of their respective contacts (both by telephone and in person) with others.
- b. Copies of pertinent written communications

6.03 Routine Reporting and Billing. The Consultant will provide the following on a routine basis:

- a. Coordination of all contract activities by the C/PM
- b. The periodic reports and billings required by CDOT Procedural Directive 400.2 (Monitoring Consultant Contracts).
- c. Minutes of all Meetings: The minutes will be completed and will be provided to the CDOT/PM within five (5) working days after the meeting. When a definable task is discussed during a meeting, the minutes will identify the "Action Item", the agency responsible for accomplishing it, and the proposed completion date.
- d. In general, all reports and submittals must be accepted by CDOT prior to their content being utilized in follow-up work effort.

6.04 Personnel Qualifications. The Consultant Project Manager (C/PM), must be approved by the CDOT Contract Administrator. Certain tasks must be done by Licensed Professional Engineers or Professional Land Surveyors who are registered with the Colorado State Board of Registration for Professional Engineers and Land Surveyors. National Institute for Certification in Engineering Technology may be required for project inspectors and testers (if applicable).

6.05 CDOT Computer/Software Information. The Project Team shall utilize the most recent CDOT adopted software. The primary types of software used by CDOT are:

Earthwork-	InRoads
Drafting	MicroStation
Survey-	InRoads TMOSS (developed by CDOT to convert topographic survey to design format)
Geometry-	CDOT COGO (Coordinate Geometry)
Bridge-	Staff Bridge software shall be used in either design or design check
Estimating-	Trns*port (to be handled by CDOT). Bid items to be provided to CDOT in a compatible file format (i.e. Estimator) which will be imported into Trns*port.
Specifications-	Microsoft Word
Scheduling-	MS Project
E-File Management-	Project Wise
Miscellaneous-	MS Outlook, Excel, Power Point

6.06 Computer Data Compatibility. CDOT presently utilizes two data formats which Consultants shall be required to use for submitting survey, photogrammetry, and design data: InRoads TMOSS (Topography) Modeling Survey System and InRoads.

The data format used by the Consultant to submit surveying and photogrammetric data shall be as determined by the CDOT/PM in coordination with the Region 1 PLS. The data format for submitting design computer files shall be compatible with the CDOT InRoads program. Preliminary and final design shall be submitted to CDOT electronically.

The Consultant shall immediately notify the CDOT/PM if the firm is unable to produce the desired format for any reason and cease work until the problem(s) is (are) resolved.

6.07 Project Design Data and Standards

- a. General. Attachment A is a list of technical references applicable to CDOT work. The Consultant is responsible for ensuring compliance with the listed references. Conflicts in criteria shall be resolved by the CDOT/PM.
- b. Specific Criteria. Attachment B is a list of specific project criteria. The list is comprehensive and may include items that are not required for a tasks defined in this scope. The Consultant shall submit the pertinent criteria to the CDOT/PM at one of the periodic progress meetings prior to initiating design.
- c. Construction Materials/Methods. The materials specified for construction and any indicated construction methods will be selected to minimize the initial construction and

long-term maintenance cost to the State of Colorado. Non-typical construction materials and methods must be approved in writing by CDOT/PM.

**SECTION 7
WORK ACTIVITY ASSIGNMENTS**

This list establishes the consultant's individual task responsibility. The consultant shall maintain the ability to perform all work tasks which are indicated below by an 'X' mark in the consultant column in accordance with the applicable CDOT standards. Selected work tasks shall be assigned only after coordination and consultation with CDOT. The Project Team is responsible for coordinating the required work schedule for those tasks accomplished by CDOT and other agencies.

PRECONSTRUCTION

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
A. Project Initiation and Continuing Requirements:		
1. Initial Project Meeting	<u>X</u>	<u>X</u>
2. Review Environmental Mitigation Requirements	<u>X</u>	<u>X</u>
3. Independent Design Review	<u>X</u>	<u>X</u>
4. Project Schedule	<u> </u>	<u>X</u>
5. Develop Design Criteria	<u> </u>	<u>X</u>
6. Initiate Survey	<u> </u>	<u>X</u>
7. Right-of-Entry and Permits	<u>X</u>	<u>X</u>
8. Traffic Control	<u> </u>	<u> </u>
9. Initial Submittals	<u> </u>	<u>X</u>
10. Progress Meetings	<u>X</u>	<u>X</u>
11. Structure Review Meetings	<u> </u>	<u> </u>
12. Project Management	<u>X</u>	<u>X</u>
B. Project Development:		
1. Communication and Consensus Building		
a. Contact List	<u>X</u>	<u>X</u>
b. Public Notices/Advertisements	<u>X</u>	<u>X</u>
c. General Meetings		
(1) Small Group	<u>X</u>	<u>X</u>
(2) General Public	<u>X</u>	<u>X</u>
(3) Project Review	<u>X</u>	<u>X</u>
d. Communication Aids	<u>X</u>	<u>X</u>

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
(1) Graphics Support	<u>X</u>	<u>X</u>
(2) Newsletter	<u>X</u>	<u>X</u>
(3) Wall Displays	<u>X</u>	<u>X</u>
(4) Study Model	<u>X</u>	<u>X</u>
(5) Local Office	<u>X</u>	<u>X</u>
2. Project Review Team	<u>X</u>	<u>X</u>
3. Route Location Surveys	<u> </u>	<u> </u>
a. Presurvey Conference	<u> </u>	<u> </u>
b. Survey Data Research	<u> </u>	<u> </u>
c. Secure Rights of Entry	<u> </u>	<u> </u>
d. Project Control Survey	<u> </u>	<u> </u>
(1) Locate or establish HARN Stations	<u> </u>	<u> </u>
(2) Monumentation	<u> </u>	<u> </u>
(3) Project Control	<u> </u>	<u> </u>
e. Photogrammetry	<u> </u>	<u> </u>
(1) Camera Calibration Report	<u> </u>	<u> </u>
(2) Flight Plan	<u> </u>	<u> </u>
(3) Flight	<u> </u>	<u> </u>
(4) Contact Prints	<u> </u>	<u> </u>
(5) Negatives	<u> </u>	<u> </u>
(6) Enlargements	<u> </u>	<u> </u>
(7) Photo Index	<u> </u>	<u> </u>
(8) Supplemental Survey (wing points)	<u> </u>	<u> </u>
f. Supplemental Surveying	<u> </u>	<u>X</u>
g. Accuracy Tests	<u> </u>	<u> </u>
h. Review (by Registered Professional Land Surveyor)	<u> </u>	<u> </u>
i. Reviewed (by Registered Professional Land Surveyor)	<u> </u>	<u> </u>

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
4. Conceptual Design		
a. Aesthetics	_____	<u> X </u>
b. System Feasibility	_____	<u> X </u>
c. Alternatives Analysis	_____	<u> X </u>
d. Final Alternatives Reports	_____	<u> X </u>
e. Interchange Approval Process	_____	_____
5. Data Gathering Analysis, and Mitigation Development		
a. Traffic Related		
(1) Traffic Study	_____	_____
(2) Accident Study	_____	_____
(3) Noise Study	_____	_____
(4) Air Quality		
(a) Air Quality Monitoring	_____	_____
(b) Air Quality Analysis	_____	_____
(5) Alternate Transportation Sys.	_____	_____
b. Archaeology		
(1) Gather Data & Analysis	_____	_____
(2) Mitigation Implementation	_____	_____
c. Paleontology		
(1) Gather Data & Analysis	_____	_____
(2) Mitigation Implementation	_____	_____
d. Initial Geology Investigation	_____	<u> X </u>
e. Water Quality		
(1) Quality Analysis	_____	<u> X </u>
(2) Quality Monitoring	<u> X </u>	<u> X </u>
f. Ecological Assessment	_____	<u> X </u>
g. Historical		
(1) Historical Bridge Clearance	_____	_____
(2) Historical Study & Clearance	_____	_____

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
h. Floodplain and Drainage Assessment	_____	<u> X </u>
i. Right-of-Way		
(1) Early ROW	_____	_____
(2) ROW Review	_____	_____
j. 4(f)/6(f) Activity		
(1) Evaluation	_____	_____
(2) Clearance/Concurrence	_____	_____
k. Threatened and/or Endangered Species		
(1) Determination of Presence	_____	_____
(2) Implement Mitigation	_____	_____
l. Wetlands		
(1) Wetlands Determination	_____	_____
(2) Wetlands Findings Report	_____	_____
m. Hazardous Materials		
(1) Field Search	_____	_____
(2) Research	_____	_____
(3) Conduct in-situ tests	_____	_____
(4) Analyze and Assess Impacts	_____	_____
n. Existing Roadway/Major Structure	<u> X </u>	<u> X </u>
o. Construction Requirements	<u> X </u>	<u> X </u>
p. Aesthetic Considerations	<u> X </u>	<u> X </u>
q. Utilities	_____	_____
r. Economics	_____	_____
s. Farmlands	_____	_____
t. Energy Usage	_____	_____
6. Environmental Assessment (EA) Process	_____	_____
7. Environmental Impact Study (EIS) Process	_____	_____
8. Design Report Process	<u> X </u>	<u> X </u>
9. Obtain Permits	_____	_____

CDOT/OTHER CONSULTANT

C. Preliminary Design:

1.	Design Field Surveys		
	a. Presurvey Conference	_____	_____
	b. Survey Data Research	_____	_____
	c. Secure Rights of Entry	_____	_____
	d. Project Control Survey	_____	_____
	(1) Locate or Establish HARN Stations	_____	_____
	(2) Monumentation	_____	_____
	(3) Local Project Control	_____	_____
	e. InRoads TMOSS Survey	_____	_____
	f. Terrain Survey	_____	_____
	g. Utility Survey	_____	_____
	h. Hydraulic Survey	_____	_____
	i. Material Survey	_____	_____
	j. Supplemental Surveying	_____	_____
	k. Survey Report	_____	_____
	l. Accuracy Tests	_____	_____
	m. Review (by Registered Professional Land Surveyor)	_____	_____
	n. Wetland Boundary	_____	_____
2.	Traffic Engineering	_____	_____
3.	Materials Engineering	_____	_____
	a. Preliminary Soil Investigation	_____	_____
	b. Pavement Rehabilitation	_____	_____
	c. New Pavement Structure	_____	_____
	d. Pavement Justification	_____	_____
	e. Pavement Design Report	_____	_____
	f. Existing Bridge Investigation	_____	_____
	g. Foundation Investigation	_____	_____
4.	Hydrology/Hydraulics Engineering	_____	_____
	a. Hydrology	<u> X </u>	<u> X </u>
	b. Hydraulics	<u> X </u>	<u> X </u>
	c. Preliminary Hydraulics Report	<u> X </u>	<u> X </u>

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
5. Utility Coordination		
a. Location Maps	_____	_____
b. Reviews and investigations	_____	_____
(1) "Potholing"-Excavation	_____	_____
(2) "Potholing"-Surveying Utility Locations	_____	_____
c. Relocation recommendations	_____	_____
d. Ditch Company coordination	_____	_____
6. Roadway Design and Roadside Development		
a. Roadway Design	_____	_____
b. Roadside Development	_____	_____
(1) Guardrail and delineator	_____	_____
(2) Landscaping	_____	_____
(3) Sprinkler Systems/Liquid Anti-Icing	_____	_____
(4) Sound Barriers	_____	_____
(5) Bike paths	_____	_____
(6) Truck Escape Ramps	_____	_____
(7) Rest Areas	_____	_____
(8) Safety analysis	_____	_____
c. Lighting Plan	_____	_____
7. Right-of-Way		
a. Research	_____	_____
b. Ownership Map	_____	_____
8. Major Structural Design		
a. Structural Data Collection	_____	_____
b. Structure concept study	_____	_____
c. Value Engineering	_____	_____
d. Structure Selection Report	_____	_____
e. Foundation Investigation Request	_____	_____
9. Construction Phasing Plan	_____	_____
10. Preparation for the FIR	_____	_____
11. Field Inspection Review	_____	_____
12. Post FIR Revisions	_____	_____

D. Final Design:

1.	Project Review	_____	_____
2.	Design Coordination	_____	_____
3.	Utility Coordination	_____	_____
4.	Hydraulic Design		
a.	Data Review	_____	_____
b.	Storm Water Pollution Prevention Plan	_____	_____
c.	Major Structure Channel Design	_____	_____
d.	Final Hydraulics Report	_____	_____
5.	Interim Plans		
a.	Initiate ROW Authorization Process	_____	_____
b.	Final Utility Plans	_____	_____
c.	Final Railroad Plans	_____	_____
6.	Right-of-Way		
a.	ROW Plans Content	_____	_____
b.	Title Insurance and Closing Services	_____	_____
c.	Authorization Plan	_____	_____
d.	Appraisal Staking	_____	_____
e.	ROW Plan Revisions (During Negotiations)	_____	_____
7.	Materials Engineering		
a.	Materials Data	_____	_____
b.	Stabilization validity	_____	_____
c.	Stabilization Plan	_____	_____
8.	Traffic Engineering		
a.	Permanent Signing/Pavement Marking Plans	_____	_____
b.	Signalized Intersections	_____	_____
c.	Traffic Control Plan	_____	_____
9.	Roadside Planning		
a.	Landscaping	_____	_____
b.	Other	_____	_____

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
(1) Sprinkler systems/Liquid Anti-Icing	_____	_____
(2) Bike paths	_____	_____
(3) Sound barriers	_____	_____
(4) Truck escape ramps	_____	_____
(5) Rest Areas	_____	_____
(6) Guardrail and delineator	_____	_____
(7) Safety analysis	_____	_____
c. Lighting Plans	_____	_____
10. Roadway Design	_____	_____
11. Final Major Structural Design		
a. Structure Final Design	_____	_____
b. Preparation of Structure Plans and Specifications	_____	_____
c. Independent Design, Detail, and Quantity Check	_____	_____
d. Bridge Rating and Field Packages	_____	_____
e. Structure Final Review Plans and Specifications	_____	_____
12. Construction Phasing Plan	_____	_____
13. Plan Preparation for FOR	_____	_____
14. Final Office Review	_____	_____
15. Construction Plan Package	_____	_____
E. Corridor Management Support:		
1. Design Control	_____	_____
2. Information Services	_____	_____
3. Budget Planning Support	_____	_____
F. Value Engineering	_____	_____

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
SERVICES AFTER DESIGN		
A. Review of Shop Drawings	_____	_____
B. Construction Services		
1. Coordinate Schedule	_____	_____
2. Provide field observation		
a. Pile driving/caisson drilling	_____	_____
b. Major concrete pours	_____	_____
c. Placement of girders	_____	_____
d. Splicing of girders	_____	_____
e. Post-tensioning duct and anchorage placement	_____	_____
f. Post-tensioning operations	_____	_____
3. Technical assistance	_____	_____
4. Submittals		
a. Diary	_____	_____
b. Documentation/justification	_____	_____
c. Progress reports	_____	_____
d. Calculations, drawings, and specifications	_____	_____
e. Daily time sheets	_____	_____
C. Post Design Plan Modifications	_____	_____
D. Post Construction Services:		
1. Final earthwork determination	_____	_____
2. As-built plans	_____	_____
3. Revisions to Right-of-Way Plans (Excess Land)	_____	_____
4. Monument ROW	_____	_____
5. Set Property Corners (Remainders)	_____	_____
6. Deposit ROW Plans	_____	_____
E. Construction Engineering	_____	_____

**SECTION 8
SUBMITTALS**

		<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
A. Project Initiation and Continuing Requirements:			
Part 1			
6.01.b.	Periodic Reports & Billings	_____	<u> X </u>
6.01 c.	Meeting Minutes	_____	<u> X </u>
Part 2			
A.4	Project Schedule	_____	<u> X </u>
A.5	Completed Specific Design Criteria (Attachment B)	_____	_____
A.6	Survey Plan	_____	_____
A.7	Permissions to Enter (Form 730)	_____	_____
A.8	Traffic Control Plan	_____	_____
A.9	Initial Submittal of InRoads TMOSS and/or MOSS Compatible Data	_____	_____
A.9	Initial Submittal of an Original Plan Sheet	_____	_____
B. Project Development:			
B.1.a.	Public Communication Contact List	<u> X </u>	<u> X </u>
B.3.	Route Location Survey:		
	<input type="checkbox"/> Electronic Survey Files	_____	_____
	<input type="checkbox"/> Survey InRoads TMOSS Data	_____	_____
	<input type="checkbox"/> Monument Records	_____	_____
	<input type="checkbox"/> Control & Monumentation Plan Sheets	_____	_____
	<input type="checkbox"/> Aerial Photography Index Map Sheets	_____	_____
	<input type="checkbox"/> Aerial Photography Contact Prints	_____	_____
	<input type="checkbox"/> Aerial Photography Negatives	_____	_____
	<input type="checkbox"/> Photogrammetry		
	Electronic Data	_____	_____
	Base Map Sheets	_____	_____
	Base Map Index Sheet(s)	_____	_____
	<input type="checkbox"/> Rectified Photos with Mylar Originals	_____	_____

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
B.4.b. System Feasibility Study	_____	_____
B.4.d. Final Alternatives Report	_____	_____
B.4.e. System Feasibility Study	_____	_____
B.5.a.(3)(d) Noise Assessment Report	_____	_____
B.5.a.(4)(b) Air Quality Report	_____	_____
B.5.b.(2) Archaeology Survey Report & Mitigation Plan	_____	_____
B.5.c.(2) Paleontology Preliminary Report & Mitigation Plan	_____	_____
B.5.e.(1) Water Quality Report	_____	<u> X </u>
B.5.f.(5) Ecology Report	_____	_____
B.5.g.(1) Historical Bridge Clearance or Mitigation Plan	_____	_____
B.5.g.(2) Historical Cultural Resources Report	_____	_____
B.5.h.(5) Floodplain and Drainage Assessment Report & Mitigation Plan	_____	_____
B.5.i.(2)(b) ROW Report	_____	_____
B.5.j.(2)(e) 4(f)/6(f) Mitigation Plan	_____	_____
B.5.k.(1)(c) Threatened and/or Endangered Species Assessment	_____	_____
B.5.l.(2)(b) Wetlands Findings Report	_____	_____
B.5.m.(4) Hazardous Materials Findings Environmental Assessment (EA)	_____	_____
B.6.a.(3) Preliminary EA	_____	_____
B.6.d.(3) Certified Verbatim Transcript	_____	_____
B.6.e. Finding of No Significant Impact (FONSI) Environmental Impact Statement	_____	_____
B.7.a.(2) Draft EIS	_____	_____
B.7.d.(3) Certified Transcript of Meeting	_____	_____
B.7.e. Final EIS Design Report Process	_____	_____
B.8.b. Preliminary Design Report	_____	<u> X </u>
B.8.e. Final Design Report	_____	<u> X </u>

		<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
Permits:			
B.9.a.	<input type="checkbox"/> 401 Permit	_____	_____
B.9.b.	<input type="checkbox"/> 402 Permit	_____	_____
B.9.c.	<input type="checkbox"/> 404 Permit	_____	_____
B.9.d.	<input type="checkbox"/> Wildlife Certification	_____	_____
B.9.e.	<input type="checkbox"/> NPDES Storm Water Permit	_____	_____
C. Preliminary Design:			
C.1.	Electronic Survey	_____	_____
C.2.g.	Traffic Data & Recommendations	_____	_____
C.3.a.(4)	Soils Investigation Report	_____	_____
C.3.e.	Pavement Design Report	_____	_____
C.3.f.	Existing Bridge Condition Report	_____	_____
C.3.g.(6)	Foundation Investigation Report	_____	_____
C.3.g.(7)	Engineering Geology Plan Sheet(s)	_____	_____
C.4.c.	Preliminary Hydraulics Report	_____	_____
C.5.c.	Utility Relocation	_____	_____
	Recommendations	_____	_____
C.5.d.	Ditch Structure Plans	_____	_____
Part 2			
Right-of-Way:			
C.7.a.	Memoranda of Ownership	_____	_____
C.7.b.	Preliminary Ownership Map (include in the FIR plan set)	_____	_____
C.8.c.	Structural Selection Report	_____	_____
C.8.d.	Foundation Investigation Request	_____	_____
C.10.c	Preliminary Cost Estimate	_____	_____
C.10.d.	FIR Plan Set	_____	_____
C.11.e.	List of Deviations from Standard Design Criteria	_____	_____
C.12.	Corrected FIR Plan Set	_____	_____
D.4.d.	Final Hydraulics Report	_____	_____

	<u>CDOT/OTHER</u>	<u>CONSULTANT</u>
D. Final Design:		
D.5.a. ROW Authorization Plans	_____	_____
D.5.b. Final Utility Plan Set	_____	_____
D.5.c.(4) Final Railroad Plan Set	_____	_____
D.5.c.(5) PUC Exhibit	_____	_____
Right-of-Way:		
D.6.b.(4) Area Calculations	_____	_____
D.6.b.(5) Authorization Plans	_____	_____
D.6.b.(6) Legal Descriptions	_____	_____
Materials Engineering		
D.7.c. Stabilization Plan	_____	_____
Traffic Engineering:		
D.8.a. Signing/Pavement Marking Plans	_____	_____
D.8.b. Signal Warrants	_____	_____
D.8.b. Signalized Intersection Plans	_____	_____
D.8.c. Traffic Control Plan	_____	_____
Roadside Planning		
D.9.a.(6) Landscaping Plans & Specs.	_____	_____
D.9.a.(7) Certification of plant		
Availability	_____	_____
D.9.b. Sprinkler System Plans & Specs.	_____	_____
D.9.b. Bike path Plans & Specs.	_____	_____
D.9.b. Sound Barrier Plans & Specs.	_____	_____
D.9.b. Truck Escape Ramp Plans & Specs.	_____	_____
D.9.b. Rest Area Plans & Specs.	_____	_____
D.9.c. Lighting Plans	_____	_____
D.11.c. Structure Final Review Plans		
and Special Provisions	_____	_____
D.12. Construction Phasing Plan	_____	_____
D.13.d. FOR Plan Sheets and Special		
Provisions	_____	_____
D.13.e. FOR Cost Estimate	_____	_____
D.15.a. FOR Revised Plans and		
Special Provisions	_____	_____

D.15.c. Final Review Revisions

CDOT/OTHER CONSULTANT

Construction Plan Package:

D.15.d.(1) Roadway Design Data Submittal

D.15.d.(2) Major Structure Design Final Submittal

D.15.e. Record Plan Sets

**SECTION 9
CONTRACT CONCLUSION**

9.01 Supplemental Work. It is anticipated that this contract will be supplemented for:

- Completion of the "as-built" plans and/or final ROW plans

9.02 Contract Completion. This Contract will be satisfied upon acceptance of the following items if applicable:

- Project Schedule
- Project Progress Meeting Minutes
- All Documents Found In Research
- All Permission to Enter Forms
- Ownership Map
- Original Field Notes

and the completion of review of contract submittals. Additionally, CDOT shall retain all work products should the contract be terminated.