

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION'S ANNUAL REPORT FOR 2016

**REGARDING UNITED STATES OF AMERICA VS. MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION**

REPORT FOR JANUARY 1, 2016, THROUGH DECEMBER 31, 2016

MARCH 30, 2017

**Missouri Highways and Transportation Commission's 2016 Annual Report
Report for January 1, 2016, through December 31, 2016
United States of America vs. Missouri Highways and Transportation Commission
Consent Decree**

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1.0 Introduction

In accordance with the Consent Decree between the United States of America and Missouri Highways and Transportation Commission (MHTC) operating by and through the Missouri Department of Transportation (MoDOT), an annual report shall be submitted to the Environmental Protection Agency (EPA) by March 30 of each year for civil action number 15-4069. Measures MoDOT has taken throughout the 2016 calendar year to comply with Section V, Paragraphs 13 through 34, of the Consent Decree are described in detail for this report.

2.0 Stormwater Compliance and Environmental Specialist

In accordance with Section V, Paragraph 13, MoDOT designated Mr. Eric Kopinski as its Stormwater Compliance and Environmental Specialist from August 18, 2015, to September 15, 2016. Mr. Brian Williams assumed the role of Stormwater Compliance and Environmental Specialist on September 15, 2016. As illustrated in Appendix A, Mr. Williams meets all of the requirements of Section V, Paragraph 13. Mr. Williams is an employee of MoDOT, has been trained and Certified through MoDOT's Stormwater Consent Decree/Land Disturbance training developed from Appendix A of the Consent Decree (see Appendix B), and has worked with National Pollutant Discharge Elimination System (NPDES) and Stormwater Pollution Prevention Plans (SWPPP) since June 1994. Mr. Williams is currently working toward obtaining his CPESC certification before August of 2017. As the central office point of contact, he provides support to MoDOT district staff. He is responsible for all the formal training and has reviewed all the deficiencies within the stormwater compliance database, as required. He is responsible for reviewing all stormwater deficiencies every 14 days that are not corrected within 7 days. He supervises the oversight inspection process, and he has the authority to order the taking of measures up to \$100,000 in cost to ensure cessation, correction, prevention or minimization of the consequences of non-compliance with Stormwater Requirements and the Consent Decree (Appendix C). As required, Mr. Williams is responsible for providing written reports to the EPA as outlined in Section VI; and has also been the point of contact between MoDOT and the EPA since Mr. Kopinski's departure.

3.0 Stormwater Compliance and Environmental Specialist Delegate

In accordance with Section V, Paragraph 14, MoDOT has the following employees who are qualified to function as the Stormwater Compliance and Environmental Specialist:

Mr. Michael Meyerhoff, P.E., CPESC – Field Materials Engineer;

Mr. Randy Swanigan, CPESC – Senior Roadside Management Specialist; and

Mr. Eric Kopinski, CPESC – Senior Construction Inspector

During 2016, neither Mr. Kopinski nor Mr. Williams delegated responsibilities of the Stormwater Compliance and Environmental Specialist to any of the above delegates.

4.0 Designation of Stormwater Resident Engineers

In accordance with Section V, Paragraph 15 and 16, in 2016, MoDOT designated Stormwater Resident Engineers and their respective delegates based on each project's geographic region during the project development process. The list of Consent Decree Projects, designated Stormwater Resident Engineers, and their delegates for 2016 can be found in Appendix D.

5.0 Designation of Environmental Construction Inspectors

In accordance with Section V, Paragraph 17 and 18, MoDOT has designated Environmental Construction Inspectors and their respective delegates. Environmental Construction Inspectors and their delegates are designated after the construction projects are awarded by the Missouri Highways and Transportation Commission, and before any construction activities begin. The list of projects, Environmental Construction Inspectors, and their delegates for 2016 is documented in Appendix E.

6.0 Stormwater Training

In accordance with Section V, Paragraphs 19 through 21, MoDOT implemented a Stormwater Training Program meeting all of the requirements of the Consent Decree as detailed by MoDOT's submittal to the EPA on August 18, 2015. Mr. Kopinski continued the stipulated trainings for employees and contractors from January 7, 2016, through September 13, 2016. Mr. Williams assumed the training role after September 13, 2016. Thirty (30) separate formal stormwater training opportunities were offered in 2016. The summary of stormwater trainings can be found in Appendix F. From January 7, 2016, through December 15, 2016, 157 MoDOT employees attended stormwater training, and 156 Contractor and Water Pollution Control Managers (WPCM) attended stormwater training. This brings the total of MoDOT employees trained for the duration of the Consent Decree to 1171 and Contractors and WPCM's to 553. Appendices G and H provide listings of individuals who became certified in 2016. MoDOT provided training that included all elements as outlined in the Consent Decree. Appendix I includes the training material covered at each of the trainings in accordance with Section V, Paragraph 22. Training records for employees and contractors are retained by the Stormwater Compliance and Environmental Specialist in accordance with Section V, Paragraph 23, and are available upon request.

7.0 Water Pollution Control Managers (WPCM)

In accordance with Section V, Paragraph 24, WPCMs have been designated and are fulfilling all required duties outlined in the Consent Decree. WPCMs added since the 2015 report submitted in March of 2016 are listed in Appendix J.

8.0 SWPPP Requirements and Reviews

In accordance with Section V, Paragraphs 25 and 26, a project-specific Stormwater Pollution Prevention Plan (SWPPP) form was developed in 2015 to meet the requirements of the Consent Decree. This form is available electronically in MoDOT's Storm Water Pollution Prevention Plan (SWPPP) located in MoDOT's online Engineering Policy Guide (EPG), Article 806.8. Project specific SWPPPs are evaluated at the Erosion Control Preconstruction meeting and signed by the Stormwater Resident Engineer and the Water Pollution Control Manager (WPCM). Project specific SWPPPs are available upon request because of the size of these documents, some hundreds of pages in length. Provided in Appendix K is a copy of an example SWPPP used for a Consent Decree project in 2016.

9.0 Stormwater Preconstruction Conference

In accordance with Section V, Paragraph 27, a stormwater preconstruction conference form was developed in 2015 to help meet the requirements of the Consent Decree. Enhancements were added in late 2016 to capture all of the required information MoDOT enters in the Stormwater Database. This form has been made available electronically in MoDOT's Storm Water Pollution Prevention Plan (SWPPP) located in MoDOT's online Engineering Policy Guide (EPG), Article 806.8. Appendix L provides an example of the new form used to document the summary of the on-site conference for every Consent Decree project.

10.0 Inspection Compliance

In accordance with Section V, Paragraphs 28, 29, 30 and 31, the inspection sheet provided by the EPA within the Consent Decree (Appendix M) has been used as the standard form within MoDOT's stormwater database. Inspections are being conducted as outlined in MoDOT's NPDES stormwater permit, SWPPP, and Inspection Protocol. Environmental inspections are being conducted every 7 days as well as all post runoff inspections that are required following rain or snow melt events, that produce stormwater runoff.

11.0 Inspection Protocol

In accordance with Section V, Paragraph 29 and 30, MoDOT memorialized an Inspection Protocol as indicated in a submittal to the EPA on August 19, 2015 (Appendix N). The Inspection Protocol is compliant with the terms of the National Pollution Discharge Elimination System (NPDES) and the Consent Decree. Provided in Appendix O is the distribution e-mail to all Contractors indicating where the current Inspection Protocol can be found. No changes were made to the Inspection Protocol in 2016.

12.0 Oversight Inspection in Environmentally Sensitive Areas

In accordance with Section V, Paragraph 31, MoDOT has had one project in an environmentally sensitive location in 2016. Project number J9P3093, Route AC, Perry County was determined to be an environmentally sensitive project on July 7, 2016, because of the project's proximity to a subsurface cave system which is the home of the federally listed endangered grotto sculpin. Melissa Scheperle, Senior Environmental Specialist from Central Office Environmental Section, trained May 14, 2015, was named as the oversight inspector for this project. This project met the definition of a Consent Decree Project on August 3, 2016. Environmental oversight inspections were conducted, in accordance with Paragraph 31 of the Consent Decree, on August 23, 2016, and November 9, 2016. This project has an anticipated completion date of September 2017.

13.0 Stormwater Compliance Database

In accordance with Section V, Paragraph 32, MoDOT implemented an online Stormwater Compliance Database on November 17, 2015, which was within 120 days of July 20, 2015, the Consent Decree effective Date.

Projects are automatically pulled into the Stormwater Database from MoDOT's construction tracking software, SiteManager, when projects with more than one acre of disturbed ground are authorized. MoDOT has set procedures in place to designate any project with the potential to disturb at least 0.75 of an acre of ground to be entered in the database in anticipation of construction operations exceeding the one-acre threshold. For any project brought into the database, an Erosion Control Inspector and Water Pollution Control Manager are designated, and a Stormwater Erosion Control Preconstruction Conference is held in the event the project does exceed the one-acre limit. Any project not part of the consent decree, but included in the database will have no disturbed acres shown and no reports conducted. Documentation of the actual field disturbance is maintained by the Environmental Inspector and Stormwater Resident Engineer.

In 2016, 41 additional projects were entered in the database above the 41 projects carried over from 2015 – eight projects were entered in anticipation of the potential to break the one-acre threshold, and 33 projects exceeded the one-acre threshold and were part of the Consent Decree. A total of 74 projects were administered as Consent Decree Projects in the Stormwater Database in 2016. Appendix E outlines all MoDOT projects included in the database.

14.0 Permits

Continued compliance under MoDOT's current NPDES SW permit has not resulted in the obligation to obtain any additional federal or state permits or approvals.

15.0 Major Storm Events

MoDOT had no force majeure events to report in 2016.

16.0 Non-Compliance Occurrences for 2016

The Missouri Department of Transportation had three violations to report in 2016. Appendix S outlines these violations and the required stipulated penalty amounts for each violation.

MoDOT takes all violations of the Consent Decree very seriously. The directive from the department's top leadership has remained clear: the expectation is that MoDOT work to achieve complete compliance with the NPDES permit and the Consent Decree. MoDOT staff has worked very hard to comply with this expectation. The reported violations were unfortunate occurrences but should not overshadow the exceptional work MoDOT staff and its contractors have accomplished in 2016. MoDOT credits the success of our compliance with the NPDES SW permit and the Consent Decree to the daily database notifications produced by the Stormwater Database as well as the daily database verification of

inspections, Stormwater Resident Engineers and WPCM certifications, and deficiency corrections by the Stormwater Compliance and Environmental Specialist and each stormwater contact designated in each of MoDOT's 7 districts.

MoDOT was issued a Letter of Warning from the Missouri Department of Natural Resources (MoDNR) for Project 160122-F03, Route 70, St. Charles County on October 18, 2016. MoDNR cited two violations in the Letter of Warning: 1.) Failure to adequately maintain and install Best Management Practices, and 2.) Failure to adequately conduct and record weekly and after rainfall site inspections. MoDNR's letter of warning is included as Appendix T. MoDOT rebutted the Letter of Warning on November 17, 2016, see Appendix U. Project specific conditions were outlined and improvements to the site were detailed following the inspection by MoDNR. Additionally, MoDOT defended its weekly and post runoff inspection efforts with inspection reports from MoDOT's Stormwater Database, inspector field diary entries, and field photos of the areas in question. MoDOT does not believe the letter of warning was warranted but offers it to the EPA for consideration based on Section VII, Paragraph 42.

A return to compliance letter was received from Missouri Department of Natural Resources (MoDNR) on January 30th, 2017, based on MoDOT's response to the letter of warning. This letter is included as Appendix V.

Continual communication is key to delivering the message of compliance with the Clean Water Act and the Consent Decree. Examples of MoDOT's internal communication efforts are provided below where the importance of remaining in compliance was stressed:

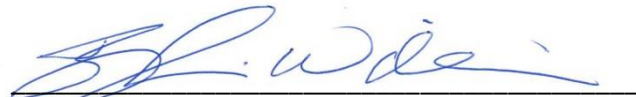
DOMInno – April 11-12, 2016: DOMInno (Deliver, Operate, Maintain and Innovate) is an annual department meeting for the top 400 leaders within the department. At this meeting the important topics for the upcoming year are discussed to set the direction for the department. At the 2016 meeting Mr. Kopinski outlined the future of the Consent Decree to program delivery, utilities and construction personnel.

Statewide Tracker: Tracker is a quarterly meeting for department and district leadership. This meeting is used as a tool to assess how well the department performed in the past quarter, helping to drive performance improvements for many MoDOT functions. At each of these three meetings MoDOT senior managers are presented with the number of stormwater violations for each quarter by the Stormwater Compliance and Environmental Specialist, and they reinforced their expectations with district engineers that, "There will be no violations of the Consent Decree."

Association of General Contractors (AGC)/MoDOT CO-OP Annual Meeting – December 7-8, 2016: AGC/MoDOT CO-OP meeting is an annual event where MoDOT and the AGC and its members come together to share past successes and share future best practices and information for the success of Missouri's transportation needs. Land disturbance and the Consent Decree is a vital topic at this meeting. Mr. Williams spoke about the Consent Decree and the success of the past construction season. Elements of continual focus were outlined to insure compliance with MoDOT's NPDES SW Permit as well as the Consent Decree.

17.0 Certification Statement

In accordance with Section VI, Paragraph 38, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Brian Williams

Stormwater Compliance Coordinator MoDOT

Appendix A – Stormwater Compliance And Environmental Specialist Job Description

Missouri Department of Transportation

Code: R04132

Title: Stormwater Compliance Coordinator

Exemption Status: Exempt

Grade: 17

Job Description

Effective Date 12-01-2014

**Replaces
(Effective Date)**

General Summary The stormwater compliance coordinator is responsible for the department's regulatory compliance under various stormwater management and environmental protection rules, regulations, and programs.

**Minimum/Required
Qualifications** Bachelor's Degree: Biology, Soil Science, Hydrology, Civil Engineering or related field
Six years of experience in aspects related to stormwater management and/or environmental programs.
Certification in Erosion and Sediment Control (CPESC) within six months of hire.

**Supervisory
Responsibilities** Lead Worker Only

Location Central Office - Design

**Special Working
Conditions/Job
Characteristics** Job requires regular, statewide overnight travel.
Job requires exposure to moderately adverse and undesirable environmental conditions.

Examples of Work

- (1) Serves as the primary resource for department projects through design, construction and post-construction for all stormwater permitting requirements and serves as the main point of contact between the department and the stormwater regulatory agencies.
- (2) Coordinates the development, delivery, maintenance, and annual reporting requirements of the stormwater training program for applicable department employees and contractors.
- (3) Oversees department employees and contractors to provide guidance to ensure compliance with stormwater requirements.
- (4) Maintains and reviews stormwater permit(s) and associated stormwater pollution prevention plans.
- (5) Coordinates regular compliance inspections, identifies deficiencies, provides oversight, and recommends corrective action; and supervises the oversight inspection process in environmentally sensitive areas.
- (6) Prepares and submits periodic written reports of non-compliance with stormwater requirements to the appropriate stormwater regulatory agency, and prepares and submits an annual report summarizing all actions taken within the previous year.

- (7) Creates, implements, and maintains an electronic database to track all stormwater deficiencies noted in any stormwater inspection or oversight inspection and the actions taken to address each.
- (8) Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with stormwater requirements.
- (9) Issues stop work orders on a project, if necessary, to ensure compliance with stormwater requirements.
- (10) May perform lead worker responsibilities, which may include providing general instruction, assigning and reviewing work, coaching and training, providing guidance and instruction in the proper and most efficient methods of accomplishing tasks, and providing input to the direct supervisor on staffing decisions and performance management.
- (11) Performs other responsibilities as required or assigned.

The Missouri Department of Transportation promotes an equal opportunity workplace that includes reasonable accommodation of otherwise disabled applicants and employees. Please see your manager should you have any questions about this policy or these job duties.

Appendix B – Stormwater Compliance and Environmental Specialist Certification

Consent Decree Land Disturbance Training

Certificate of Completion

Brian K. Williams

Date Completed: 6/29/2015

7 Credit Hours

Eric T. Kopinski

Stormwater Compliance Coordinator

6/29/2015

Date



Appendix C – Stormwater Compliance And Environmental Specialist Change Order Authority

109.12 Change Orders (for Sec 109.12

(http://www.modot.org/business/standards_and_specs/Sec0109.pdf))

A change order is a supplement to the contract. It is prepared to provide authority to pay for revisions in quantities and to authorize changes in scope of work, design concept or specifications. Changes in scope should be limited to the original intent, purpose and limits (length and width) of the job. In instances where proposed changes in scope go beyond these original job parameters the change order shall be considered a major change order and Construction and Materials will discuss the proposed change with the Asst. Chief Engineer. Change orders must have approval before the work is done. Exceptions are granted for routine or minor changes, or emergency revisions for which verbal approval has been granted. In rare cases it may be necessary to proceed with emergency measures without prior approval. In such cases verbal approval should be sought as soon as practicable. Indicate in the diary or letter of transmittal the name of the individual who provided that verbal approval. Change orders providing for additional payment should be processed in sufficient time to allow payment on the next estimate following the period in which the work was performed.

When a major change order is received in Construction and Materials (<http://wwwi.intranet/cm/>) , it must first be reviewed and approved by one of the Construction and Materials liaison engineers. Often the liaison may ask for more information on change orders than the resident engineer feels is necessary since the resident engineer is on the job and the answer appears quite simple and obvious. However, it is difficult for reviewers away from the construction site, such as the District Construction and Materials Engineer, to get a clear understanding unless a detailed explanation is provided on the change order. A clear description or drawing can expedite processing the change order.

Change Order Approval. There are four levels of change orders; non-major change orders that can be approved by the resident engineer (Change Order Level 1), non-major change orders that must have district approval (Change Order Level 2), major change orders that must have division approval (Change Order Level 3) and change orders that require Chief Engineer/ Chief Financial Officer approval (Change Order Level 4). Level 2, 3 and 4 change orders on projects designated for federal involvement for change orders on the PODI Matrix require approval by the Federal Highway Administration. The change order approval level rules are as follows (and available in table form):

Non-major change orders (Change Order Level 1) approved by the resident engineer are:

1. Any no-cost change orders (used when the direct substitution of a particular line item with a contingent item does not generate an additional cost or cost reduction).
2. Any change in a contract or contingency item less than \$50,000.

Examples of a Resident Engineer Change Order Report (http://epg.modot.mo.gov/files/a/a2/137.2_Resident_Engineer.jpg) are available.

Non-major change orders (Change Order level 2) requiring approval by the district office, and FHWA on projects designated for federal involvement on change orders on the PODI Matrix require, are:

1. Final change orders, if one is necessary.
2. Any change in a contract item or contingency item from \$50,000 to \$100,000.
3. Any new contingency item from \$50,000 to \$100,000.

Examples of a District Change Order Report are available.

Erosion Control Change Orders requiring approval from the Stormwater Compliance and Environmental Specialist, are:

1. Any change in a contract or contingency item under \$100,000.
2. Any new contingency item under \$100,000.

Change Order Approval Level Determination Chart

Change Order approval levels are automatically set by the construction management system. All change orders must be approved at Level 1 (Resident Engineer). If a given change order exceeds the criteria from this chart, it would also need to be approved at the additional Level(s) shown. The chart values are absolute values. The criteria that requires the highest level approval always prevails over other criteria. The approval level for a change order marked "Combination" is determined by the various independent components of the change order.

806.7.6 Basis of Payment

The primary objective is to control soil erosion during construction with reasonable and economical construction practices. While the contract documents indicate locations of erosion control devices (silt fence, ditch checks, and silt basins), the actual quantity and locations of the items should be determined in the field in order to fit existing conditions.

The erosion control devices should not be limited to those included in the contract documents. The project engineer should authorize additional devices that will be most effective in controlling erosion. Approval of alternate erosion control devices can be submitted and approved through the resident engineer. Payment for approved alternate measures can be made as additional work. If the work is not due to the contractor's carelessness, or failure to install permanent controls, additional work should be authorized by the resident engineer using the weekly Land Distribution Inspection Record (<http://ghepg01/forms/CO/Land%20Disturbance%20Inspection%20Record%20-%20Electronic%20Version.dotx>) with payment made at contract unit prices, agreed unit prices, or by force account.

For projects performed by MoDOT's internal staff that fall under the Consent Decree as well as for utility projects and permit jobs that fall under the Consent Decree, **erosion control change orders** requiring approval from the district utility engineer, district maintenance engineer or district permit specialist are:

1. Any change in a contract or contingency item up \$50,000,
2. Any new contingency item under \$50,000.

Appendix D – Designation of Stormwater Resident Engineers

Active Projects as of Decmber 2016

District	Contract ID	Route	Description	Contractor	Project RE	Training Date	Backup RE	Training Date
NW	160122-A01	36	Grading, pavement and bridge	Lehman	Gregory Stervinou	5/26/2015	Austin Hibler	5/26/2015
NW	160219-A01	13	Bridge replacement	Phillips	James Gillespie	5/26/2015	Austin Hibler	5/26/2015
NW	160318-C06	92	Grading and pavement	Leavenworth	Gregory Stervinou	5/26/2015	Austin Hibler	5/26/2015
NE	150320-B04	19	Grading, drainage, pavement & bridge	Lehman	Richard Domzalski	6/1/2015	Macy Rodenbaugh	6/1/2015
KC	140709-C01	69	Grading, paving, and bridge	American Br.	Matthew Daulton	5/28/2015	Brian Burger	5/20/2015
KC	141121-C01	35	Bridge Replacement	Miles Exc.	Matthew Daulton	5/28/2015	Brian Burger	5/20/2015
KC	150320-C07	50	New Roadway	Chester Bross	James Pflum	5/20/2015	Stephen M. Collyott	5/20/2015
KC	150417-C01	50	Grading and pavement	Chester Bross	James Pflum	5/20/2015	Stephen M. Collyott	5/20/2015
KC	160318-C02	23	Bridge replacement	L. G. Barcus	Zachary Walker	5/20/2015	Brian Burger	5/20/2015
KC	160318-C03	Various	4 bridge replacements	Widel	Zachary Walker	5/20/2015	Brian Burger	5/20/2015
KC	160624-C01	435	Resurface	Clarkson	James Pflum	5/20/2015	Brian Burger	5/20/2015
KC	160624-C07	45	Grading, pavement, retaining walls	Clarkson	Matthew Daulton	5/28/2015	Brian Burger	5/20/2015
CD	140919-D01	50	Grading & Bridge	Emery Sapp	Reid Riley	5/20/2015	Patty Lemingelli	6/10/2015
CD	151023-D02	8	Diamond grind & shoulders	H.R. Quadri	Dennis Krenning	6/2/2015	Eric Abbott	6/10/2015
CD	151120-D06	94	Resurface and add shoulders	Capital Paving	Reid Riley	5/20/2015	Patty Lemingelli	6/10/2015
CD	160219-D02	54	Resurface	Magruder	Christopher Graham	6/10/2015	Patty Lemingelli	6/10/2015
CD	160219-D02	54	Resurface	Magruder	Christopher Graham	6/10/2015	Patty Lemingelli	6/10/2015
CD	160415-D03	19	Resurface and add shoulders	N.B. West	Dennis Krenning	6/2/2015	Eric Abbott	6/10/2015
CD	160415-D04	17	Resurface	N.B. West	Dennis Krenning	6/2/2015	Eric Abbott	6/10/2015
SL	140822-F01	64	New add a lane	Gershenson	John Grana	5/12/2015	Mike Castro	5/12/2015
SL	150220-F09	47	Bridge replacement	Kozeny-Wagner	Christine Redhage	5/12/2015	Mike Castro	5/12/2015
SL	150417-F03	D	Grading & pavement	N.B. West	Jansson, Matthew	5/12/2015	Mike Castro	5/12/2015
SL	151120-F04	185	Grading, shoulders, & resurface	N.B. West	Christine Redhage	5/12/2015	Mike Castro	5/12/2015
SL	160122-F03	70	Grading, pavement and bridge	Millstone Weber	John Lewis	6/11/2015	Anthony J. Gambaro	5/12/2015
SL	160210-F01	141	Route 141 Design Build	Pace	John Grana	5/12/2015	Chris K. Morgan	5/12/2015
SL	160520-F01	47	Building demolition	Alberici	Tim Hellebusch	5/12/2015	Mike Castro	5/12/2015
SL	160520-F10	N	Grading, Paving, and Bridge	Phillips	John Lewis	6/11/2015	Anthony J. Gambaro	5/12/2015
SL	161021-F01	64	Resurface	KCI	Scott Washausen	6/11/2015	Mike Castro	5/12/2015
SW	141121-G08	249	ADA and Intersection Improvements	Branco	Jason Evenden	6/18/2015	Steven Campbell	5/18/2015
SW	150320-G02	60	Grading, pavement and bridge	Emery Sapp	Donald Gripka	5/18/2015	James F. Blackburn	5/18/2015
SW	150821-G02	13	Resurfacing	APAC-Central	Shannon Kellner	5/18/2015	Steven Campbell	5/18/2015
SW	151120-G06	14	Grading and Paving	Hartman	Johnny Teegardin	5/18/2015	Steven Campbell	5/18/2015
SW	160219-G11	65	Grading, paving, & bridge	Emery Sapp	Johnny Teegardin	5/18/2015	Steven Campbell	5/18/2015
SE	140523-H03	160	Grading and Paving	H.R. Quadri	Tammy Hefner	5/27/2015	Donald A. Hills	5/27/2015

Active Projects as of Decmber 2016 cont.

District	Contract ID	Route	Description	Contractor	Project RE	Training Date	Backup RE	Training Date
SE	141121-H03	412	Grading and Paving	Chester Bross	Tammy Hefner	5/27/2015	Donald A. Hills	5/27/2015
SE	150320-H17	34	Resurface and add shoulder	Apex Paving	Darius Dowdy	5/27/2015	Andy Meyer	5/27/2015
SE	150515-H10	63	Grading and pavement	Chester Bross	Audie Pulliam	5/27/2015	Andy Meyer	5/27/2015
SE	150925-H03	M	Bridge Replacement	United Ironworkers	Audie Pulliam	5/27/2015	Andy Meyer	5/27/2015
SE	160318-H07	O	Resurface	Magruder	Darius Dowdy	5/27/2015	Andy Meyer	5/27/2015
SE	160415-H06	M	Pavement and shoulders	H.R. Quadri	Audie Pulliam	5/27/2015	Andy Meyer	5/27/2015
SE	160520-H03	AC	Grading and Paving	Emery Sapp	Brian Holt	5/27/2015	Matt Wilkerson	5/27/2015

Projects with Final Stabilization in 2016

District	Contract ID	Route	Description	Contractor	Project RE	Training Date	Backup RE	Training Date
NW	140221-A04	59	Grading & Paving	Phillips	Gregory Stervinou	5/26/2015	Austin Hibler	5/26/2015
NW	140822-C01	A	Resurfacing	Ideker, Inc.	Gregory Stervinou	5/26/2015	Austin Hibler	5/26/2015
NW	141017-A01	29	Bridge deck replacement	Widel	Larry Jacobson	5/26/2015	Austin Hibler	5/26/2015
NW	141121-A03	36	Bridge deck replacement	Lehman	Larry Jacobson	5/26/2015	Austin Hibler	5/26/2015
NW	150417-A01	N	Bridge Replacement	Widel	Larry Jacobson	5/26/2015	Austin Hibler	5/26/2015
NW	151120-A02	48	Bridge replacement	Widel	Gregory Stervinou	5/26/2015	Austin Hibler	5/26/2015
NE	150515-B04	61	Grading, pavement & BR deck rep.	Bleigh	Martin Lincoln	6/1/2015	Macy Rodenbaugh	6/1/2015
KC	140523-C06	49	Grading, Alternate Paving, & Bridge	Lehman	Jon Voss	5/20/2015	Brian Burger	5/20/2015
KC	140919-C01	L.S. Rd	Grading, paving, and bridge	Radmacher	Jon Voss	5/20/2015	Brian Burger	5/20/2015
KC	150123-C04	10	Bridge replacements, pavmt & ADA	Phillips	James Pflum	5/20/2015	Stephen M. Collyott	5/20/2015
KC	150220-C02	Y	Resurface and add shoulders	Superior Bowen Asph	Jon Voss	5/20/2015	Stephen M. Collyott	5/20/2015
KC	150320-C01	M	Resurfacing	Chester Bross	Zachary Walker	5/20/2015	Brian Burger	5/20/2015
KC	150320-C08	69	bridge replacement	L. G. Barcus	Matthew Daulton	5/28/2015	Brian Burger	5/20/2015
KC	150515-C05	I-49	Grading and pavement	Emery Sapp	Jon Voss	5/20/2015	Brian Burger	5/20/2015
KC	160122-C02	7	Pavement and ADA improvements	Miles Exc.	Jon Voss	5/20/2015	Brian Burger	5/20/2015
KC	160122-C04	50	Grading and pavement	Radmacher	Jon Voss	5/20/2015	Brian Burger	5/20/2015
KC	160122-C05	291	Grading, drainage, and paving	Gunter	Matthew Daulton	5/28/2015	Brian Burger	5/20/2015
KC	160122-C08	D	Bridge deck replacement	Widel	Jon Voss	5/20/2015	Brian Burger	5/20/2015
KC	160122-C08	D	Bridge deck replacement	Widel	Jon Voss	5/20/2015	Brian Burger	5/20/2015
KC	160122-C08	YY	Bridge deck replacement	Widel	Jon Voss	5/20/2015	Brian Burger	5/20/2015
KC	160122-C10	W	Resurface& ADA	Ideker, Inc.	James Pflum	5/20/2015	Stephen M. Collyott	5/20/2015
KC	160219-C01	M	Bridge deck replacement	Ennis	Jon Voss	5/20/2015	Brian Burger	5/20/2015
KC	160219-C01	B	Bridge deck replacement	Ennis	Jon Voss	5/20/2015	Brian Burger	5/20/2015

Projects with Final Stabilization in 2016 cont.

District	Contract ID	Route	Description	Contractor	Project RE	Training Date	Backup RE	Training Date
KC	160624-C03	T	Slide repair	Phillips	Brian Iles	5/20/2015	Brian Burger	5/20/2015
CD	150320-D10	87	Resurfacing	Apac - Missouri	Christopher Graham	6/10/2015	Patty Lemingelli	6/10/2015
CD	150603-D01	I-70	Replacement of 3 Bridges	Emery Sapp	Christopher Graham	6/10/2015	Patty Lemingelli	6/10/2015
CD	151023-D05	AA	Bridge Replacement	Schnieders	Christopher Graham	6/10/2015	Patty Lemingelli	6/10/2015
CD	160318-D02	70	2 bridge rehabilitations	Capital Paving	Peck, Aaron	6/10/2015	Kirsten A. Munck	6/10/2015
SL	120710-F01	64	Bridge C onstruction	Walsh Alberici JV	Tim Hellebusch	5/12/2015	James Gremaud	6/11/2015
SL	140124-F04	A	Shouldering Project	N.B. West	Christine Redhage	5/12/2015	Mike Castro	5/12/2015
SL	140321-F08	115	Street Enhancements	N.B. West	Matthew Jansson	5/12/2015	Mike Castro	5/12/2015
SL	150123-F05	Y	Resurface and add shoulders	N.B. West	Christine Redhage	5/12/2015	Mike Castro	5/12/2015
SL	150220-F08	94	Resurface, and add shoulders	Magruder	Lewis, John	6/11/2015	Mike Castro	5/12/2015
SL	160122-F01	55	Grading, pavement and bridge	Millstone Weber	Christine Redhage	5/12/2015	Mike Castro	5/12/2015
SL	160318-F13	OR 44 E	Grading, pavement and guardrail	N.B. West	John Grana	5/12/2015	Chris K. Morgan	5/12/2015
SL	160415-F01	44	bridge replacement	Phillips	Washausen, Scott	5/12/2015	Mike Castro	5/12/2015
SW	140611-G01	60	Grading and Paving	Radmacher	Steven Campbell,	5/18/2015	Donald Griпка	5/18/2015
SW	150123-G03	125	Grading, pavement and bridge	Phillips	Donald Griпка	5/18/2015	James F. Blackburn	5/18/2015
SW	150515-G08		Grading, Paving, and Bridge	Apac - Missouri	Johnny Teegardin	5/18/2015	Steven Campbell	5/18/2015
SW	151023-G04	B	Grading, pavement, and bridge	Radmacher	Donald Griпка	5/18/2015	James F. Blackburn	5/18/2015
SW	151120-G03	65	Grading and Paving	Magruder	Shannon Kellner	5/18/2015	Steven Campbell	5/18/2015
SW	160219-G11	65	Grading, paving, and bridge at	Emery Sapp	Johnny Teegardin	5/18/2015	Steven Campbell	5/18/2015
SW	160219-G14	744	Grading, pavement, signals & ADA	APAC-Central	Donald Griпка	5/18/2015	James F. Blackburn	5/18/2015
SW	160415-G01	BUS 65	Grading and Paving and Utilities	D & E	Donald Griпка	5/18/2015	Steven Campbell	5/18/2015
SE	140124-H02	34	Grading, Paving, and Shoulders	Apex Paving	Brian Holt	5/27/2015	Matt Wilkerson	5/27/2015
SE	141017-H05	55	Grading and Paving	Chester Bross	Brian Holt	5/27/2015	Matt Wilkerson	5/27/2015
SE	141017-H06	Various	Guardrail improvements	Nationwide Fence	Tammy Hefner	5/27/2015	Donald A. Hills	5/27/2015
SE	150123-H02	55	Grading, pavemen & bridge rehabs	Chester Bross	Brian Holt	5/27/2015	Matt Wilkerson	5/27/2015
SE	150123-H03	CR 19	Grading pavement & bridges	Robertson	Tammy Hefner	5/27/2015	Donald A. Hills	5/27/2015
SE	150220-H02	34	Resurface and add shoulders	Pace	Tammy Hefner	5/27/2015	Donald A. Hills	5/27/2015
SE	150417-H01	PP	Demolition of Structures	Robertson	Tammy Hefner	5/27/2015	Donald A. Hills	5/27/2015
SE	151120-H06	84	Resurfacing	Chester Bross	Brian Holt	5/27/2015	Matt Wilkerson	5/27/2015
SE	160318-H07	F	Resurface	Magruder	Darius Dowdy	5/27/2015	Andy Meyer	5/27/2015
SE	MT0516RTTT	TT	Grading	Permit	Tammy Hefner	5/27/2015	Donald A. Hills	5/27/2017

Appendix E – Designation of Environmental Construction Inspectors

Active Projects as of December 2016

District	Contract ID	Route	Description	Contractor	Project Inspector	Training Date	Backup Inspector	Training Date
NW	160122-A01	36	Grading, pavement & bridge	Lehman	Gina Orozco-Stillman	5/26/2015	Heath Hartman	5/26/2015
NW	160219-A01	13	Bridge replacement	Phillips Hardy	Ethan Deardeuff	5/26/2015	Ricklyn Adams	6/7/2016
NW	160318-C06	92	Grading & pavement	Leavenworth	Jeffery Dennis	5/26/2015	Heath Hartman	5/26/2015
NE	150320-B04	19	Grading, drainage, pavmt & bridge	Lehman	Andrew Long	6/1/2015	Robert Davidson	6/1/2015
KC	140709-C01	69	Grading, paving, & bridge	American Bridge	Christopher Karlin	5/20/2015	Chris Teel	5/28/2015
KC	141121-C01	35	Bridge Replacement	Miles	Eric Heck	6/11/2015	Blake Stephens	8/12/2016
KC	150320-C07	50	New Roadway	Chester Bross	Randon Green	5/28/2015	Michael Warren	5/28/2015
KC	150417-C01	50	Grading & pavement	Chester Bross	Randon Green	5/28/2015	Michael Warren	5/28/2015
KC	160318-C02	23	Bridge replacement	L. G. Barcus	Timothy Sims	5/20/2015	Cheryl Grines	5/20/2015
KC	160318-C03	Various	4 bridge replacements	Widel	Cheryl Grimes	5/20/2015	John Sprigg	5/20/2015
KC	160624-C01	435	Resurface	Clarkson	Shannon Hall	2/22/2016	Tyler Johnson	7/8/2016
KC	160624-C07	45	Grading, pavement, & walls	Clarkson	Brad Watkins	5/20/2015	Andrea Stroup	4/28/2016
CD	140919-D01	50	Grading & Bridge Replacement	Emery Sapp	Aaron Lafave	1/13/2016	Cary Armour	6/2/2015
CD	151023-D02	8	Diamond grind & add shoulders	H.R. Quadri	Dennis Brady	6/29/2015	Cindy Dzurick	6/10/2015
CD	151120-D06	94	Resurface & add shoulders	Capital Paving	Randy Lamons	6/10/2015	Cary Armour	6/2/2015
CD	160219-D02	54	Resurface	Magruder	Scott Snelling	6/10/2015	Phillip Thomposn	6/10/2015
CD	160219-D02	54	Resurface	Magruder	Scott Snelling	6/10/2015	Phillip Thomposn	6/10/2015
CD	160415-D03	19	Resurface & add shoulders	N.B. West	Westly McPeters	6/10/2015	Myles McWhorter	7/1/2015
CD	160415-D04	17	Resurface	N.B. West	Phillip Thompson	6/2/2015	Eric Abbot	5/10/2016
SL	140822-F01	64	New add a lane	Gershenson	Eric Ingrum	5/12/2015	Deborah Gallagher	5/12/2015
SL	150220-F09	47	Bridge replacement	Kozeny-Wagner	Bruce Wright	6/11/2015	Kevin Koch	6/11/2015
SL	150417-F03	D	Grading, pavement, & resurfacing	N.B. West	Jason Aubuchon	6/11/2015	Jonathan Silver	5/12/2015
SL	151120-F04	185	Grading, add shoulders, & resurface	N.B. West	Theodore Fox	6/11/2015	Eric Smith	5/12/2015
SL	160122-F03	70	Grading, pavement & bridge	Millstone Weber	Michael Spanberger	5/18/2015	Anthony Gambaro	5/12/2015
SL	160210-F01	141	Route 141 Design Build	Pace	Jeffery Chambers	5/12/2015	Brian Roth-Roffy	6/11/2015
SL	160520-F01	47	Building demolition	Alberici	Brain Lange	7/22/2015	Mitchell Shaneberger	6/4/2015
SL	160520-F10	N,	Grading, Paving, & Bridge	Phillips Hardy	Nicholas Buss	9/13/2016	Roger Brink	5/12/2015
SL	161021-F01	64	Resurface	KCI	Gary Schlater	5/12/2015	Grant Manula	6/11/2015
SW	141121-G08	249	ADA & Intersection Improvements	Branco	Jonathan Castillo	6/18/2015	Ryan Dingman	5/18/2015
SW	150320-G02	60	Grading, pavement & bridge	Emery Sapp	Matthew Willard	6/18/2015	Brian Dye	6/18/2015
SW	150821-G02	13	Resurfacing	APAC-Central	James Howell	6/14/2016	Steven Markham	5/18/2015
SW	151120-G06	14	Grading & Paving	Hartman	Darren Condron	5/18/2015	Gill Welton	5/18/2015
SW	160219-G11	65	Grading, paving, & bridge at	Emery Sapp	Michael May	5/18/2015	Matthew Franklin	5/18/2015
SE	140523-H03	160	Grading & Paving	H.R. Quadri	Chris Barnfield	5/27/2015	Melissa Rose	5/27/2015
SE	141121-H03	412	Grading & Paving	Chester Bross	Lynn Smith	5/27/2015	Erin Collins	5/27/2015
SE	150320-H17	34	Resurface & add shoulder	Apex Paving	Jerry Lewis	5/27/2015	Cody Snow	5/27/2015
SE	150515-H10	63	Grading & pavement	Chester Bross	Jason Ferguson	5/27/2015	David Prock	5/27/2015
SE	150925-H03	M	Bridge Replacement	United Ironworkers	Brandon Voyles	5/27/2015	Michael Crudgington	5/27/2015
SE	160318-H07	O	Resurface	Magruder	Byron Davenport	6/11/2015	Chris Crocker	5/27/2015

Active Projects as of Decmber 2016 Cont.

SE	160415-H06	M	Pavement & shoulders	H.R. Quadri	Nathan Reed	5/27/2015	Brandon Voyles	5/27/2015
SE	160520-H03	AC	Grading & Paving	Emery Sapp	Seth Bollinger	6/17/2015	Adam Mitchell	6/15/2015

Projects with Final Stabilization in 2016

District	Contract ID	Route	Description	Contractor	Project Inspector	Training Date	Backup Inspector	Training Date
NW	140221-A04	59	Grading & Paving	Phillips Hardy	Gina Orozco-Stillman	5/26/2015	Jeffery Dennis	5/26/2015
NW	140822-C01	A	Resurfacing	Ideker, Inc.	Russ Love	5/26/2015	Ronnie Calhoon	5/26/2015
NW	141017-A01	29	Bridge deck replacement	Widel	Jason White	5/26/2015	Travis Gunter	5/26/2015
NW	141121-A03	36	Bridge deck replacement	Lehman	Tim Zona	5/26/2015	Lynn Anderson	5/26/2015
NW	150417-A01	N	Bridge Replacement	Widel	Lynn Anderson	5/26/2015	Travis Gunter	5/26/2015
NW	151120-A02	48	Bridge replacement	Widel	Nathan Fender	7/6/2016	Jennifer Sardigal	5/26/2015
NE	150515-B04	61	Grading, pavement & BR deck rep.	Bleigh	Ken Worthington	6/1/2015	Delmar Wittaker	6/1/2015
KC	140523-C06	49	Grading, Alternate Paving, & Bridge	Lehman	Brady Watson	5/28/2015	Albert Janssens	5/28/2015
KC	140919-C01	L.S. Rd	Grading, paving, & bridge	Radmacher	Russel Brooks	5/20/2015	Chad Baldwin	5/20/2015
KC	150123-C04	10	Bridge replacements, pavement	Phillips Hardy	Russell Penner	5/28/2015	John Casey	11/24/2015
KC	150220-C02	Y	Resurface & add shoulders	Superior Bowen	Lisa Raybourn	5/28/2015	Ryan Kneib	6/3/2015
KC	150320-C01	M	Resurfacing	Chester Bross	Robert Gargrave	6/10/2015	Timothy Sims	5/28/2015
KC	150320-C08	69	bridge replacement	L. G. Barcus	Andrew Bowman	5/20/2015	Travis Rowe	6/3/2015
KC	150515-C05	I-49	Grading & pavement	Emery Sapp	Joshua Motto	5/28/2015	William Chappell	5/28/2015
KC	160122-C02	7	Pavement & ADA	Miles	Ryan Kneib	6/3/2015	Shannon Hall	2/22/2015
KC	160122-C04	50	Grading & pavement	Radmacher	Brady Watson	5/28/2015	Chad Baldwin	5/20/2015
KC	160122-C05	291	Grading, drainage, & paving	Gunter	Kurtis Hathaway	5/20/2015	Beckey Wheatly	5/28/2015
KC	160122-C08	D	Bridge deck replacement	Widel	Brad Watkins	5/20/2015	N/A	N/A
KC	160122-C08	D	Bridge deck replacement	Widel	Brad Watkins	5/20/2015	N/A	N/A
KC	160122-C08	YY	Bridge deck replacement	Widel	Brad Watkins	5/20/2015	N/A	N/A
KC	160122-C10	W	Resurface, ADA, Signals	Ideker, Inc.	Brandon Cracraft	5/28/2015	Abraham Medhin	7/8/2016
KC	160219-C01	M	Bridge deck replacement	Ennis	Joshua Motto	5/28/2015	N/A	N/A
KC	160219-C01	B	Bridge deck replacement	Ennis	Joshua Motto	5/28/2015	N/A	N/A
KC	160624-C03	T	Slide repair	Phillips Hardy	Robert Hargrave	6/10/2015	James Lohsandt	5/28/2015
CD	150320-D10	87	Resurfacing	Apac - Missouri	Daniel Weaver	6/10/2015	Terry Morgan	6/10/2015
CD	150603-D01	I-70	Replacement of 3 Bridges	Emery Sapp	Daniel Roeger	6/2/2015	Timothy Ackert	6/2/2015
CD	151023-D05	AA	Bridge Replacement	Schnieders	Rickey Simmons	6/2/215	Thomas Powers	6/10/2015
CD	160318-D02	70	2 bridge rehabilitations	Capital Paving	Nichoas Schatzer	6/4/2015	Jeffery Niemeyer	6/2/2015
SL	120710-F01	64	Bridge C onstruction	Walsh Alberici JV	Heather Copeland	6/11/2015	Mitchell Shaneberger	6/4/2015
SL	140124-F04	A	Shouldering Project	N.B. West	Roger Brink	6/11/2015	Kevin Koch	6/11/2015
SL	140321-F08	115	Street Enhancements	N.B. West	Loraine Bedard	6/11/2015	David Bauer	5/12/2015
SL	150123-F05	Y	Resurface & add shoulders	N.B. West	Virgil Reed	6/11/2015	Eric Burlbaw	6/11/2015
SL	150220-F08	94	Resurface, & add shoulders	Magruder	Todd Strong	5/12/2-16	Matthew Steuber	5/12/2015
SL	160122-F01	55	Grading, pavement & bridge	Millstone Weber	Franklin Vance	5/12/2015	Randy McKinney	5/12/2015
SL	160318-F13	OR 44 E	Grading, pavement & guardrail	N.B. West	David Heck	5/12/2015	Andrew O'Connor	6/11/2015
SL	160415-F01	44	bridge replacement	Phillips Hardy	Philip Dietrich	5/12/2015	Casey Carnahan	6/11/2015
SW	140611-G01	60	Grading & Paving	Radmacher	Shane Adams	5/18/2015	Garen McElroy	5/18/2015
SW	150123-G03	125	Grading, pavement & bridge	Phillips Hardy	Bernie Mac	5/18/2015	Mattherw Koppitz	6/18/2015
SW	150515-G08		Grading, Paving, & Bridge	Apac - Missouri	Brian Todd	5/18/2015	Matthew Franklin	6/18/2015

Projects with Final Stabilization in 2016 cont.

District	Contract ID	Route	Description	Contractor	Project Inspector	Training Date	Backup Inspector	Training Date
SW	151023-G04	B	Grading, pavement, & bridge	Radmacher	Jacob Capeder	6/18/2015	Mathew Willard	6/18/2015
SW	151120-G03	65	Grading & Paving	Magruder	Steven Reedy	6/18/2015	Steven Markham	5/18/2015
SW	160219-G11	65	Grading, paving, & bridge at	Emery Sapp	Michael May	5/18/2015	Matthew Franklin	5/18/2015
SW	160219-G14	744	Grading, pavement, & ADA	APAC-Central	Bernie Mac	5/18/2015	Matthew Koppitz	5/18/2015
SE	141017-H05	55	Grading & Paving	Chester Bross	Nathin Conner	5/27/2015	Corey Massey	5/27/2015
SE	150123-H02	55	Grading, pavement & 4 br. rehabs	Chester Bross	Nathin Conner	5/27/2015	Kevin Evans	5/27/2015
SE	150123-H03	CR 19	Grading pavement & 3 bridges	Robertson	Timothy Cox	5/27/2015	Christopher Crocker	5/27/2015
SE	150220-H02	34	Resurface & add shoulders	Pace	Nathan Reed	5/27/2015	Tracee Stotts	5/27/2015
SE	150417-H01	PP	Demolition of Structures	Robertson	Caleb Bradshaw	6/17/2015	Melissa Rose	5/27/2015
SE	151120-H06	84	Resurfacing	Chester Bross	Nathan Conner	5/27/2015	Scott Brooks	6/15/2015
SE	160318-H07	F	Resurface	Magruder	Byron Davenport	6/11/2015	Chris Crocker	5/27/2015
SE	MT0516RTTT	TT	Grading	Permit	Caleb Bradshaw	6/17/2015	N/A	N/A

Appendix F – Training Summary

Training Summary			
Number	Date	District	Attendance
1	1/7 AM	SE #1	28
2	1/7 PM	SE #2	28
3	1/11	SL #1	12
4	1/26	SE #3	2
5	2/18	SW #1	4
6	2/22	KC #1	36
7	2/25	SL #2	31
8	3/2	CD #1	7
9	3/3	NE #1	5
10	3/17	NW #1	9
11	3/22	CD #2	12
12	4/28	KC #2	2
13	5/4	NE #1	6
14	5/10	SL #3	1
15	5/13	KC #3	1
16	5/26	CD #3	2
17	6/6	SW #2	6
18	6/14	SW #3	19
19	6/15	SE #4	12
20	6/29	SE #5	1
21	7/6	NW #2	6
22	7/8	KC #3	12
23	7/13	SW #4	9
24	7/14	SL #4	7
25	7/27	CD #4	10
26	8/12	KC #4	10
27	9/13	SL #5	15
28	10/11	NE #2	3
29	10/28	KC#4	8
30	12/15	CD#5	9
Total			313

Distirc Legend

NW - Northwest - St. Joseph
NE - Northeast - Hannibal
KC - Kansas City - Kansas City
CD - Central District - Jefferson City
SL - St. Louis - St. Louis
SW - Southwest - Springfield
SE - Southeast - Sikeston

Internal Training Summary				
Date	Day	Location	Room	Actual
1/7	Thursday	SE	Poplar Bluff - MT AM	28
1/7	Thursday	SE	Poplar Bluff - MT PM	28
1/11	Monday	SL	TMC - MT	12
1/26	Tuesday	SE	District	1
2/22	Monday	KC	District	9
2/25	Thursday	SL	TMC	13
4/28	Thursday	KC	District	2
6/14	Tuesday	SW	District	9
6/15	Wednesday	SE	Jackson Project Office	12
7/6	Wednesday	NW	District	6
7/8	Friday	KC	District	6
7/13	Wednesday	SW	District	9
7/14	Thursday	SL	TMC	3
7/27	Wednesday	CD	District	2
8/12	Friday	KC	District	4
9/13	Tuesday	SL	District	5
10/28	Friday	KC	District	1
12/15	Thursday	CD	District	7
Total				157

External Training Summary				
Date	Day	Location	Room	Size
1/26	Tuesday	SE	District	1
2/18	Thursday	SW	District	4
2/22	Monday	KC	District	27
2/25	Thursday	SL	TMC	18
3/2	Wednesday	CD	Muri Room	7
3/3	Thursday	NE	District	5
3/17	Thursday	NW	District	9
3/22	Tuesday	CD	District	12
5/4	Wednesday	NE	District	6
5/10	Tuesday	SL	District	1
5/13	Friday	KC	District	1
5/26	Thursday	CD	District	2
6/6	Monday	SW	Carthage	6
6/14	Tuesday	SW	District	10
6/29	Wednesday	SE	District	1
7/8	Friday	KC	District	3
7/14	Thursday	SL	TMC	7
7/27	Wednesday	CD	District	8
8/12	Friday	KC	District	6
9/13	Tuesday	SL	District	10
10/11	Tuesday	NE	District	3
10/28	Friday	KC	District	7
12/15	Thursday	CD	District	2
			Total	156

Appendix G – Training Certification MoDOT

Internal Training Summary			
Date	Day	Room	Actual
1/7	Thursday	Poplar Bluff - MT AM	28
1/7	Thursday	Poplar Bluff - MT PM	28
1/11	Monday	TMC - MT	12
1/26	Tuesday	District	1
2/22	Monday	District	9
2/25	Thursday	TMC	13
4/28	Thursday	District	2
6/14	Tuesday	District	9
6/15	Wednesday	Jackson Project Office	12
7/6	Wednesday	District	6
7/8	Friday	District	6
7/13	Wednesday	District	9
7/14	Thursday	TMC	3
7/27	Wednesday	District	2
8/12	Friday	District	4
9/13	Tuesday	District	5
10/28	Friday	District	1
12/15	Thursday	District	7
Total			157

1/7/2016 - SE Training - Poplar Bluff - AM					
Name	E-mail	Department	Title	District	Training Date
Michael Frazier	michael.frazier@modot.mo.gov	MT	As MS	SE	1/7/2016
Joe Jones	joe.jones@modot.mo.gov	MT	MS	SE	1/7/2016
James Barnes	james.t.barnes@modot.mo.gov	MT	MS	SE	1/7/2016
Danny James	danny.james@modot.mo.gov	MT	MS	SE	1/7/2016
Nathan Orf	nathan.orf@modot.mo.gov	MT	MS	SE	1/7/2016
Jeff Amelunke	jeffrey.amelunke@modot.mo.gov	MT	MS	SE	1/7/2016
Christopher Marler	christopher.marler@modot.mo.gov	MT	MS	SE	1/7/2016
Jeff Mabury	jeffrey.mabury@modot.mo.gov	MT	MS	SE	1/7/2016
Curtis Clark	curtis.clark@modot.mo.gov	MT	MS	SE	1/7/2016
JJ Lemmon	joe.lemmonjr@modot.mo.gov	MT	MS	SE	1/7/2016
Fred Drury	freddie.druryjr@modot.mo.gov	MT	MS	SE	1/7/2016
Patrica Pogue	patricia.pogue@modot.mo.gov	MT	MS	SE	1/7/2016
Keith Elliott	keith.elliott@modot.mo.gov	MT	MS	SE	1/7/2016
Darrell Emery	darrell.emery@modot.mo.gov	MT	MS	SE	1/7/2016
Justin Hills	justin.hills@modot.mo.gov	MT	MS	SE	1/7/2016
Gary Copeland	gary.copeland@modot.mo.gov	MT	MS	SE	1/7/2016
Danny Sisson	thomas.sisson@modot.mo.gov	MT	MS	SE	1/7/2016
Jeff Jarrell	jeffrey.jarrell@modot.mo.gov	MT	MS	SE	1/7/2016
Dennis Day	dennis.day@modot.mo.gov	MT	MS	SE	1/7/2016
Darle Wright	dale.wright@modot.mo.gov	MT	MS	SE	1/7/2016
Joeseeph Boggs	joseph.boggs@modot.mo.gov	MT	As MS	SE	1/7/2016
Shannon Chidester	shannon.chidester@modot.mo.gov	MT	MS	SE	1/7/2016
Gilbert Scherer	gibert.scherer@modot.mo.gov	MT	MS	SE	1/7/2016
Dustin Mittag	dustin.mittag@modot.mo.gov	MT	As MS	SE	1/7/2016
Marvin Gillespie	marvin.gillespie@modot.mo.gov	MT	As MS	SE	1/7/2016
Emos Criddle	enos.criddle@modot.mo.gov	MT	District Safety MGR	SE	1/7/2016
Melanie Curlile	melanie.curlile@modot.mo.gov	MT	Sr. Safety Officer	SE	1/7/2016
William Lacey	william.lacey@modot.mo.gov	MT	MS	SE	1/7/2016

1/7/2016 - SE Training - Poplar Bluff - PM					
Name	E-mail	Department	Title	District	Training Date
Ronald Cook	ronald.cook@modot.mo.gov	MT	MS	SE	1/7/2016
Joseph Mullen	joseph.mullen@modot.mo.gov	MT	MS	SE	1/7/2016
Kevin Davidson	kevin.davidson@modot.mo.gov	MT	MS	SE	1/7/2016
James Bradford	james.bradford@modot.mo.gov	MT	MS	SE	1/7/2016
Wm David Ledgerwood	william.ledgerwood@modot.mo.gov	MT	MS	SE	1/7/2016
Jesse William	jesse.williams@modot.mo.gov	MT	Crew Leader	SE	1/7/2016
Jesse Earls	jesse.earls@modot.mo.gov	MT	MS	SE	1/7/2016
James Allen	james.allen@modot.mo.gov	MT	MS	SE	1/7/2016
Shawn Shipley	christopher.shipley@modot.mo.gov	MT	MS	SE	1/7/2016
Russell Divine	russell.divine@modot.mo.gov	MT	Crew Leader	SE	1/7/2016
Glendon Burris	glendon.burris@modot.mo.gov	MT	MS	SE	1/7/2016
Travis Pearson	travis.pearson@modot.mo.gov	MT	MS	SE	1/7/2016
Rich Elijah	richard.elijah@modot.mo.gov	MT	MS	SE	1/7/2016
Lonnie Chambers	lonnie.chambers@modot.mo.gov	MT	MS	SE	1/7/2016
Terry Walker	terry.walker@modot.mo.gov	MT	As. MS	SE	1/7/2016
G Bryan Fortner	glenn.fortner@modot.mo.gov	MT	MS	SE	1/7/2016
Donald Edgar	donald.edgar@modot.mo.gov	MT	MS	SE	1/7/2016
Shawn Lalumondiere	shawn.lalumondiere@modot.mo.gov	MT	MS	SE	1/7/2016
Richard Russell	richard.russell@modot.mo.gov	MT	MS	SE	1/7/2016
Nathna Hunt	nathan.hunt@modot.mo.gov	MT	MS	SE	1/7/2016
Terry Sanders	terry.sanders@modot.mo.gov	MT	Crew Leader	SE	1/7/2016
Rodney Yost	rodney.yost@modot.mo.gov	MT	MS	SE	1/7/2016
Randall Ipock	randall.ipock@modot.mo.gov	MT	MS	SE	1/7/2016
Amy Bryant	amy.bryant@modot.mo.gov	MT	Pavement Spec Roadside	SE	1/7/2016
Mark Aufdenberg	mark.aufdenberg@modot.mo.gov	MT	Manager	SE	1/7/2016
Stan Johnson	stanley.johnson@modot.mo.gov	MT	As DMTE	SE	1/7/2016
Jeff Johnson	jeffrey.johnson@modot.mo.gov	MT	DMTE	SE	1/7/2016
Daniel Lacy	daniel.lacy@modot.mo.gov	MT	MS	SE	1/7/2016

1/11/2016 - SL Training - TMC					
Name	E-mail	Department	Title	District	Training Date
Eugene Preseley	eugene.presley@modot.mo.gov	MT	Crew Leader	SL	1/11/2016
David Gibson	david.gibson@modot.mo.gov	MT	MT Worker	SL	1/11/2016
Lance Willman	lance.willman@modot.mo.gov	MT	MT Worker	SL	1/11/2016
Richard Green	richard.green@modot.mo.gov	MT	MT Worker	SL	1/11/2016
Russell Thompson	russell.thompson@modot.mo.gov	MT	Crew Leader	SL	1/11/2016
Janet Rath	janet.rath@modot.mo.gov	MT	Sr. MT Worker	SL	1/11/2016
Paul Henke	paul.henke@modot.mo.gov	MT	Crew Leader	SL	1/11/2016
Al Davis	alfred.davis@modot.mo.gov	MT	As. MS	SL	1/11/2016
Randy Fountain	randy.fountain@modot.mo.gov	MT	Crew Leader	SL	1/11/2016
Kenneth Wich	kenneth.wich@modot.mo.gov	MT	Crew Leader	SL	1/11/2016
Curtis Warlick	curtis.warlick@modot.mo.gov	MT	MT Worker	SL	1/11/2016
Michel Catchings	michael.catching@modot.mo.gov	MT	Crew Leader	SL	1/11/2016

1/26/2016 - SE Training - District					
Name	E-mail	Department	Title	District	Training Date
Nick Reimler	Nicholas.reimler@modot.mo.gov	CM	Material Inspector	SL	1/26/2016

2/22/2016 - KC Training - District					
Name	E-mail	Department	Title	District	Training Date
Sean Domingo	sean.domingo@modot.mo.gov	CM	CI	KC	2/22/2016
Shannon Hall	shannon.hall@modot.mo.gov	CM	CI	KC	2/22/2016
Jared Williams	jared.williams@modot.mo.gov	CM	CI	KC	2/22/2016
Umo Duke	umo.duke@modot.mo.gov	CM	Material	KC	2/22/2016
Steve Elrick	steven.elrick@modot.mo.gov	CM	IMI	KC	2/22/2016
Quyet Dao	quyet.dao@modot.mo.gov	CM	SMI	KC	2/22/2016
Daniel Allred	daniel.allred@modot.mo.gov	CM	MI	KC	2/22/2016
Jeff Gabel	jeffery.gabel@modot.mo.gov	CM	MI	KC	2/22/2016
Gregory Copeland	gregory.copeland@modot.mo.gov	CM	IMT	KC	2/22/2016

2/25/2016 - SL Training - TMC					
Name	E-mail	Department	Title	District	Training Date
Josh Leeker	joshua.leeker@modot.mo.gov	CM	CI	SL	2/25/2016
Robert Shaw	robert.shaw@modot.mo.gov	CM	SCI	SL	2/25/2016
David Kuelker	david.kuelker@modot.mo.gov	CM	MI	SL	2/25/2016
Sarah Vanhooser	sarah.vanhooser@modot.mo.gov	CM	CI	SL	2/25/2016
Betherny Williams	betherny.williams@modot.mo.gov	CM	SCI	SL	2/25/2016
Frances Chronister	frances.chronister@modot.mo.gov	CM	-	SL	2/25/2016
Kevin Steiner	kevin.steiner@modot.mo.gov	CM	SCI	SL	2/25/2016
Brendan Kuehn	brendan.kuehn@modot.mo.gov	CM	CI	SL	2/25/2016
Glenn Konersmann	glenn.konersmann@modot.mo.gov	CM	CI	SL	2/25/2016
Omonike Ayorinde	omonike.ayorinde@modot.mo.gov	CM	SMT	SL	2/25/2016
Tim Speidel Jr	timothy.speidel@modot.mo.gov	CM	IMT	SL	2/25/2016
Melisa Hendrix	melisa.hendrix@modot.mo.gov	CM	MT	SL	2/25/2016
Arisa Prapaislia	arisa.prapaislip@modot.mo.gov	MT	AMTE	SL	2/25/2016

4/28/2016 - KC Training - District					
Name	E-mail	Department	Title	District	Training Date
Matthew Watson	matthew.watson@modot.mo.gov	CM	CI	KC	4/28/2016
Andrea Stroup	Andrea.stroup@modot.mo.gov	CM	CI	KC	4/28/2016

6/14/2016 - SW Training - District					
Name	E-mail	Department	Title	District	Training Date
Sergio Valenzuela	sergio.valenzuela@modot.mo.gov	CM	CI	SW	6/14/2016
Brandon Cahill	brandon.cahill@modot.mo.gov	CM	CT	SW	6/14/2016
Robert Gillaspie	robert.gillaspie@modot.mo.gov	CM	SCI	KC	6/14/2016
Kirk Stone	kirk.stone@modot.mo.gov	CM	CT	SW	6/14/2016
Michael Woods	michael.woods@modot.mo.gov	CM	CI	SW	6/14/2016
Amy Russell	amy.russell@modot.mo.gov	CM	SCT	SW	6/14/2016
Brian Ely	brian.ely@modot.mo.gov	CM	CT	SW	6/14/2016
Joshua Davis	joshua.davis@modot.mo.gov	CM	ICI	SW	6/14/2016
James Howell	James.howell@modot.mo.gov	CM	CI	SW	6/14/2016

6/15/2016 - SE Training - Jackson Project Office					
Name	E-mail	Department	Title	District	Training Date
Scott Brooks	scott.brooks@modot.mo.gov	CM	ICT	SE	6/15/2016
Christopher Ellis	christopher.ellis@modot.mo.gov	CM	ICT	SE	6/15/2016
Adam Mitchell	adam.mitchell@modot.mo.gov	CM	CI	SE	6/15/2016
William Sullinger	william.sullinger@modot.mo.gov	CM	CT	SE	6/15/2016
Ethan Pinkley	ethan.pinkley@modot.mo.gov	CM	CI	SE	6/15/2016
Virgil Durrow	virgil.durrow@modot.mo.gov	CM	ICT	SE	6/15/2016
Julia Vaughn	julia.vaughn@modot.mo.gov	TR	STT	SE	6/15/2016
Nicole Gharbawi	Nicole.gharbawi@modot.mo.gov	CM	CI	SE	6/15/2016
Luke Porter	luke.porter@modot.mo.gov	TR	TS	SE	6/15/2016
Brandon Nelson	Brandon.nelson@modot.mo.gov	CM	CI	SE	6/16/2016
Aaron Jones	aaron.jones@modot.mo.gov	CM	SCT	SE	6/16/2016
Zach Lee	Zachary.lee@modot.mo.gov	CM	CI	SE	6/16/2016

7/6/2016 - NW Training - NW District Office					
Name	E-mail	Department	Title	District	Training Date
Nathaniel Rice	Nathaniel.rice@modot.mo.gov	CM	CT	NW	7/6/2016
Kylie Schluter	kylie.schluter@modot.mo.gov	CM	CT	NW	7/6/2016
Nathan Fender	nathan.fender@modot.mo.gov	CM	CT	NW	7/6/2016
Chelsea McDonald	chelsea.mcdonald@modot.mo.gov	CM	CT	NW	7/6/2016
Rick Adams	rick.adams@modot.mo.gov	CM	CT	NW	7/6/2016
Justin Skipper	justin.skipper@modot.mo.gov	CM	CT	NW	7/6/2016

7/8/2016 - KC Training - KC District Office					
Name	E-mail	Department	Title	District	Training Date
Abreham Medhin	abreham.medhin@modot.mo.gov	CM	CI	KC	7/8/2016
Phillip Nguyen	phillip.nguyen@modot.mo.gov	CM	CI	KC	7/8/2016
Tyler Johnson	tyler.johnson@modot.mo.gov	CM	CI	KC	7/8/2016
Eric Koenig	eric.koenig@modot.mo.gov	CM	CI	KC	7/8/2016
Victoria Slagle	victoria.slagle@modot.mo.gov	CM	CI	KC	7/8/2016
Scotty Williams	bradley.williams@modot.mo.gov	CM	PT Eng	KC	7/8/2016

7/13/2016 - SW Training - SW District Office (Design)					
Name	E-mail	Department	Title	District	Training Date
Michael Mitchell	michael.mitchell@modot.mo.gov	DE	SHD	SW	7/13/2016
Cameron Sooy	cameron.sooy@modot.mo.gov	DE	HD	SW	7/13/2016
Kara Grunden	kara.grunden@modot.mo.gov	DE	HD	SW	7/13/2016
Emily Esienbacher	emily.eisenbacher@modot.mo.gov	DE	HD	SW	7/13/2016
David Peyton	david.peyton@modot.mo.gov	DE	TPD	SW	7/13/2016
Duke Leggett	duke.leggett@modot.mo.gov	DE	HD	SW	7/13/2016
Adam Gullett	adam.gullett@modot.mo.gov	DE	DT	SW	7/13/2016
Ryan Greer	ryan.greer@modot.mo.gov	DE	HD	SW	7/13/2016
Orrer Ricketts	orren.ricketts@modot.mo.gov	DE	HD	SW	7/13/2016

7/14/2016 - SL Training - TMC					
Name	E-mail	Department	Title	District	Training Date
Randall Rulo	randall.rulo@modot.mo.gov	CM	ACT	SL	7/14/2016
Austin Lawrence	austin.lawrence@modot.mo.gov	CM	CI	SL	7/14/2016
Samuel England	samuel.england@modot.mo.gov	CM	CI	SL	7/14/2016

7/27/2016 - CD Training - District					
Name	E-mail	Department	Title	District	Training Date
Nathan Fischer	nathan.fischer@modot.mo.gov	CM	CI	CD	7/27/2016
Yahkhub Shebib	yahkhub.shebib@modot.mo.gov	CM	CI	CD	7/27/2016

8/12/2016 - KC Training - District					
Name	E-mail	Department	Title	District	Training Date
Blake Stephens	blake.stephens@modot.mo.gov	CM	CI	KC	8/12/2016
Dustin Priest	dustin.priest@modot.mo.gov	CM	CI	KC	8/12/2016
Jared Yost	jared.yost@modot.mo.gov	CM	CI	KC	8/12/2016
Katharine Floyd	katharine.floyd@modot.mo.gov	CM	CI	NW	8/12/2016

9/13/2016 - SL Training - District					
Name	E-mail	Department	Title	District	Training Date
William Burnworth	William.Burnworth@modot.mo.gov	CM	CI	SL	9/13/2016
Jason Dunn	Jason.Dunn@modot.mo.gov	CM	CI	SL	9/13/2016
Charles Stankevic	Charles.Stankovic@modot.mo.gov	CM	CI	SL	9/13/2016
Carl Bennett	Sheldon.Bennett@modot.mo.gov	CM	CI	SL	9/13/2016
Nick Buss	Nicholas.Buss@modot.mo.gov	CM	CI	SL	9/13/2016

10/28/2016/2016 - KC Training - District					
Name	E-mail	Department	Title	District	Training Date
Aydogan Girgin	Aydogan.Girgin@modot.mo.gov	CM	CI	SW	10/28/2016

12/15/2016 - SW Training - CD District Office (Design)					
Name	E-mail	Department	Title	District	Training Date
David Taylor	David.Taylor@modot.mo.gov	CM	ICT	CD	12/15/2016
Andrew Bertels	Andrew.Bertels@mdoot.mo.gov	CM	SCT	CD	12/15/2016
Melissa Wilbers	Melissa.Wilbers@modot.mo.gov	DE	DLE	CO	12/15/2016
Adam Bashore	Adam.Bashore@modot.mo.gov	CM	ICT	CD	12/15/2016
John Nelson	Jonathan.Nelson@modot.mo.gov	DE	DLE	CO	12/15/2016
Dylan Link	Dylan.Link@modot.mo.gov	CM	CI	CD	12/15/2016
Jason Collins	Jason.Collins@modot.mo.gov	DE	HD	CD	12/15/2016

APPENDIX H – Training Certification Water Pollution Control Managers

External Training Summary				
Date	Day	Location	Room	Size
1/26	Tuesday	SE	District	1
2/18	Thursday	SW	District	4
2/22	Monday	KC	District	27
2/25	Thursday	SL	TMC	18
3/2	Wednesday	CD	Muri Room	7
3/3	Thursday	NE	District	5
3/17	Thursday	NW	District	9
3/22	Tuesday	CD	District	12
5/4	Wednesday	NE	District	6
5/10	Tuesday	SL	District	1
5/13	Friday	KC	District	1
5/26	Thursday	CD	District	2
6/6	Monday	SW	Carthage	6
6/14	Tuesday	SW	District	10
6/29	Wednesday	SE	District	1
7/8	Friday	KC	District	3
7/14	Thursday	SL	TMC	7
7/27	Wednesday	CD	District	8
8/12	Friday	KC	District	6
9/13	Tuesday	SL	District	10
10/11	Tuesday	NE	District	3
10/28	Friday	KC	District	7
12/15	Thursday	CD	District	2
Total				156

1/26/2016 - SE - District			
Name	E-mail	Company	Training Date
Rodney William	opnwhl1@yahoo.com	United Iron Workers	1/26/2015

2/18/2016 - SW - District			
Name	E-mail	Company	Training Date
Terry Fredrick	terry.fredrick@ewingsignals.com	Ewing Signals	2/18/2016
Sam Cook	sam@advancedhighwaysigns.com	Advanced Highway Signs	2/18/2016
Alan Greer	Agreer@metroasphalt.net	Metro Asphalt	2/18/2016
Dan O'Donnell	dodonnell@metroasphalt.net	Meto	2/18/2016

2/22/2016 - KC - District			
Name	E-mail	Company	Training Date
Joshua Wiertlema	jwteamhydro@yahoo.com	JWX Turf & Erosion Control	2/22/2016
Ken Taylor	jwxturfanderosion@yahoo.com	JWX Turf & Erosion Control	2/22/2016
Kate Pfefferkorn-Mansker	kate.p@p-e2.com	PE&E	2/22/2016
Matthew Landes	matt.landes@p-e.com	PE&E	2/22/2016
Joe Landender	joe.l@p-e2.com	PE&E	2/22/2016
Teresa Buehler	Rbuehler@metroasphalt.net	Metro Asphalt	2/22/2016
Anita Bisby	abisby@metroasphalt.net	Metro Asphalt	2/22/2016
Drew Taylor	dtaylor@gbateam.com	GBA	2/22/2016
Laiue Boyer	lboyer@gbateam.com	GBA	2/22/2016
Nick Gardner	nick@neoterrakc.com	Neoterra	2/22/2016
Brian Reif	brian@neoterrakc.com	Neoterra	2/22/2016
Jason Speicher	jspeicler@gbateam.com	GBA	2/22/2016
Linda Vngaslick	linda@neoterrakc.com	Neoterra	2/22/2016
Robert Miller	miles@megakc.com	Mega Industries Corporation	2/22/2016
Steve Tuth	steve@megakc.com	Mega Industries Corporation	2/22/2016
Jimmy Peeler	jimmy@megakc.com	Mega Industries Corporation	2/22/2016
Andrew Richardson	andrew@megakc.com	Mega Industries Corporation	2/22/2016
Randy Greene	randy@megakc.com	Mega Industries Corporation	2/22/2016
Margie Sobczynski	erosioncontrol@ecikc.com	Erosion Control Inc	2/22/2016
Dan Sobczynski	erosioncontrol@ecikc.com	Erosion Control Inc	2/22/2016
Trevor Donovan	erosioncontrol@ecikc.com	Erosion Control Inc	2/22/2016
Danny Butterfield	danny@megakc.com	Mega Industries Corporation	2/22/2016
Adam Miller	amiller@katexcavation.com	KAT Excavation Inc	2/22/2016
Brandon Reed	breied@katexcavation.com	KAT Excavation Inc	2/22/2016
Rick Kennkult	N/A	KAT Excavation Inc	2/22/2016
Daniel Danny	N/A	KAT Excavation Inc	2/22/2016
Corry Jenkins	N/A	KAT Excavation Inc	2/22/2016

2/25/2016 - SL - TMC			
Name	E-mail	Company	Training Date
John Clark	john.clark@millstoneweber.com	Millstone Weber	2/25/2016
William Brewer	bbrewer@nbwest.com	NB West	2/25/2016
Jeff Church	jchurch@efkmoen.com	EFK Moen	2/25/2016
Chris Bostic	cbostic@sccmo.org	St. Charles County	2/25/2016
Nathan Tolmala	ntormala@sccmo.org	St. Charles County	2/25/2016
Matt Graviett	mgraviett@gbateam.com	GBA	2/25/2016
Matt Holley	matt.holley@millstoneweber.com	Millstone Weber	2/25/2016
Jim Dehart	jim.dehart@millstoneweber.com	Millstone Weber	2/25/2016
Matt Powelson	matt.owelson@millstoneweber.com	Millstone Weber	2/25/2016
Chris Schoenberger	c.schoenberger@kciconstruction.com	KCI Construction	2/25/2016
Tim Riechers	triechers@sccmo.org	St. Charles County	2/25/2016
Chris Cruse	chris.cruse@millstoneweber.com	Millstone Weber	2/25/2016
Nick Hilton	nickhilton@millstoneweber.com	Millstone Weber	2/25/2016
Doug Bjornstad	dbjornstad@gbateam.com	GBA	2/25/2016
PJ Kronlage	pjkkronlage@efkmoen.com	EFK Moen	2/25/2016
John Hubbe	jhuebber@efkmoen.com	EFK Moen	2/25/2016
Jacob Byrd	jacobbyrd@millstoneweber.com	Millstone Weber	2/25/2016
Michael Kirchner	mkirchner@efkmoen.com	EFK Moen	2/25/2016

3/2/2016 - CD - Don Schnieders			
Name	E-mail	Company	Training Date
Douglas Holtmeyer	N/A	Don Schnieders Exc	3/2/2016
Carl Strueph	N/A	Don Schnieders Exc	3/2/2016
Dwight Thoeer	N/A	Don Schnieders Exc	3/2/2016
Daniel Proctor	dancin54.dp@gmail.com	Don Schnieders Exc	3/2/2016
Rusty Long	N/A	Don Schnieders Exc	3/2/2016
Bruce Bax	bruceLBax@embargmail.com	Don Schnieders Exc	3/2/2016
Dan Rhea	drhea@dsecompany.com	Don Schnieders Exc	3/2/2016

3/3/2016 - NE - District			
Name	E-mail	Company	Training Date
Ted Bortdot	tedbopoc@yahoo.com	Magruder Paving	3/3/2016
Mike Stuart	mstuart@magrudercompanies.com	Magruder Paving	3/3/2016
Donnie Mantle	dmantle@magrudercompanies.com	Magruder Paving	3/3/2016
Mark Lindsay	marklindsay@magrudercompanies.com	Magruder Paving	3/3/2016
Mickey Mantle	mmantle@magrudercompanies.com	Magruder Paving	3/3/2016

3/17/2016 - NW - District			
Name	E-mail	Company	Training Date
Chris St. Clair	cstclair@gbateam.com	GBA	3/17/2016
Bob Wills	bwills@herzog.com	Herzog Contraacting	3/17/2016
JR Washburn	jrwashburn@herzog.com	Herzog Contraacting	3/17/2016
Buddy Wheeler	ronwheeler0106@@yahoo.com	Boone Construction	3/17/2016
Ron Wheeler	ronwheeler0106@@yahoo.com	Boone Construction	3/17/2016
Andy Young	N/A	Boone Construction	3/17/2016
Troy Purdan	N/A	Boone Construction	3/17/2016
Byron Luikart	ByrongunterKc.com	Gunter Construction	3/17/2016
Travis Jenkins	tjenkins@herzog.com	Herzog Contraacting	3/17/2016

3/22/2016 - CD - District			
Name	E-mail	Company	Training Date
Chad Currence	chad.currence@apac.com	APAC	3/22/2016
Kris Mantle	kmantle@jeffersonasphalt.com	Jefferson Asphalt	3/22/2016
Derrick Jarrett	djarrett@rollaasphalt.com	Rolla Asphalt	3/22/2016
Troy Pinerton	troy@gtsmo.com	G&T Services	3/22/2016
Geri Fick	geri@gtsmo.com	G&T Services	3/22/2016
Donnie Payne	donalddpayne66@gmail.com	NB West	3/22/2016
Michal Swall	N/A	Boone Construction	3/22/2016
Josh McBee	N/A	Boone Construction	3/22/2016
Bryan Frederick	N/A	Boone Construction	3/22/2016
Josh Kincaid	josh@willardasphalt.com	Willard Asphalt	3/22/2016
Blane Willard	blane@willardasphalt.com	Willard Asphalt	3/22/2016
Rodney Gray	N/A	Boone Construction	3/22/2016

5/4/2016 - NE - District			
Name	E-mail	Company	Training Date
Mike Leuz	dlexcavatinginc@yahoo.com	D&L Excavating	5/4/2016
Alex Rakers	dlexcavatinginc@yahoo.com	D&L Excavating	5/4/2016
Kyle Young	kyleygci@hotmail.com	Youngs General Contrnc	5/4/2016
Steve Gibson	N/A	Youngs General Contrnc	5/4/2016
Kevin Young	klyoung77@hotmail.com	Youngs General Contrnc	5/4/2016
Stand Holder	stanholder@yahoo.com	Youngs General Contrnc	5/4/2016

5/11/2016 - SL - District			
Name	E-mail	Company	Training Date
Randy Stiers	randystiers@gmail.com	ssouri Contracting & Erosion Cont	5/11/2016

5/13/2016 - KC - District			
Name	E-mail	Company	Training Date
Charles Wallace	cwallac@braunintertec.com	Braun Intertec	5/13/2016

5/26/2016 - CD - District			
Name	E-mail	Company	Training Date
Pat Martens	patrick.martens@sbcglobal.net	Bridge Pres & Inspection Service	5/13/2016
Jacob Kremer	estimator@meraexcavating.com	Mera Excavating	5/13/2016

6/6/2016 - SW - Carthage			
Name	E-mail	Company	Training Date
Blake Sprouls	blakesprouls@hotmail.com	Sprouls Construction	6/6/2016
Luke Davey	luke@sproulsconstruction.com	Sprouls Construction	6/6/2016
Dave Hunt	midamericastoragesoultions@gmial.com	Sprouls Construction	6/6/2016
Kevin Rook	kevin@sproulsconstruction.com	Sprouls Construction	6/6/2016
Doug Sprouls	doug@sproulsconstruction.com	Sprouls Construction	6/6/2016
Clarence Winans	clarence@sproulsconstruction.com	Sprouls Construction	6/6/2016

6/14/2016 - SW - District			
Name	E-mail	Company	Training Date
Tyler Hurley	erosionkc@gmail.com	Erosion Specialists	6/14/2016
Dan Henley	concrete1jmfcc@gmail.com	JM Fahey	6/14/2016
Tony Haile	earthmover416@yahoo.com	Genc Haile Exc Inc	6/14/2016
Christia Haile	earthmover325@yahoo.com	Genc Haile Exc Inc	6/14/2016
Sarah Davis	sedavis@springfieldmo.gov	City of Springfield MO	6/14/2016
Kellie Herman	khorman@springfieldmo.gov	City of Springfield MO	6/14/2016
Troy McShave	troymcshave@sbcglobal.net	DirtWorx	6/14/2016
Brent Keitner	N/A	D&E	6/14/2016
Shelby Miller	shelby@finalgrading.com	The Yard Guys	6/14/2016
Josh Richardson	josh@finalgrading.com	The Yard Guys	6/14/2016

6/29/2016 - SE - District			
Name	E-mail	Company	Training Date
Brian Odle	briansodle@gmail.com	United Bridge Builder	6/29/2016

7/8/2016 - KC - District			
Name	E-mail	Company	Training Date
Ron Piper	ronald.piper@emerysapp.com	Emery Sapp	7/8/2016
Benjamin Petersen	bpetersen@geotechnology.com	Geotechnology	7/8/2016
Lina Souder	lsouder@geotechnology.com	Geotechnology	7/8/2016

7/14/2016 - SL - TMC			
Name	E-mail	Company	Training Date
Jeff Stirnemann	jstirnemann@cbbtraffic.com	CBB	7/14/2016
Thomas Joyner	tjoyner@cbbtraffic.com	CBB	7/14/2016
Don Johnson	djohnson@alberici.com	Alberici	7/14/2016
Matt Jacobi	matt.jacobi@alberici.com	Alberici	7/14/2016
Trey Hughes	thughes@capitalpavingmo.com	Capital Paving	7/14/2016
Brent Darr	bdarr@paceconstructionstl.com	Pace	7/14/2016
Tom Helfrich	thelfrich@paceconstructionstl.com	Pace	7/14/2016

7/27/2016 - CD - District			
Name	E-mail	Company	Training Date
Clayton Price	cprice@pavementstl.com	Pavement STL	7/27/2016
Eric Herschelman	eherschelman@pavementstl.com	Pavement STL	7/27/2016
Bobby Holland	bholland@phillipshardy.com	Phillips Hardy	7/27/2016
Brian Dorge	bdorge@phillipshardy.com	Phillips Hardy	7/27/2016
James McKinnon	jtmckinnon@live.com	Live	7/27/2016
Bryan Gibson	bgivson@skyvalt.com	Skyvalt	7/27/2016
Rex Skikes	rskiles@skyvalt.com	Skyvalt	7/27/2016
Doug Kranse	dkranse@skyvalt.com	Skyvalt	7/27/2016

8/12/2016 - KC - District			
Name	E-mail	Company	Training Date
Bradley Vollmer	widelinc@iland.net	Widel Inc	8/12/2016
Orion Fox	ofox@clarksonconstruction.com	Clarkson	8/12/2016
Jesse Kagarile	jkargrile@clarksonconstruction.com	Clarkson	8/12/2016
Cole Kagarile	ckargarile@clarksonconstruction.com	Clarkson	8/12/2016
Rick Parrott	rparrott@clarksonconstruciton.com	Clarkson	8/12/2016
Chad Bird	cbird@clarksonconstruction.com	Clarkson	8/12/2016

9/13/2016 - SL - District			
Name	E-mail	Company	Training Date
Eric Haack	ehaack@alberici.com	Alberici	9/13/2016
Carlos Polk	cpolk@alberici.com	Alberici	9/13/2016
Tyler Apple	tapple@alberici.com	Alberici	9/13/2016
Rob Hartwell	rhartwell@alberici.com	Alberici	9/13/2016
Michael Parrish	michaelp@stlbridge.com	St. Louis Bridge Construction	9/13/2016
Pete Johnson	peterj@stlbridge.com	St. Louis Bridge Construction	9/13/2016
Adam Hanrelk	adamh@stlbridge.com	St. Louis Bridge Construction	9/13/2016
Rich Rounds	richr@stlbridge.com	St. Louis Bridge Construction	9/13/2016
Bridget Dolan	bridgetd@stlbridge.com	St. Louis Bridge Construction	9/13/2016
Paul Tierney	pault@stlbridge.com	St. Louis Bridge Construction	9/13/2016

10/11/2016 - NE - District			
Name	E-mail	Company	Training Date
Martin Beers	matin@dwmerzke.com	WPCMMERTZ01	10/11/2016
Mark Games	mark@dwmerzke.com	WPCMMERTZ02	10/11/2016
David Mertzke	jody@dwmerzke.com	WPCMMERTZ03	10/11/2016

10/28/2016 - KC- District			
Name	E-mail	Company	Training Date
Tim Hollaway	T.aboveandbelow@yahoo.com	WPCMA&B001	10/28/2016
Michael Failor	Levifailor@icloud.com	WPCMA&B002	10/28/2016
Doug Bauer	dbauer@djmeceological.com	WPCMDJM001	10/28/2016
Kevin Betley	kbetley@djmeceological.com	WPCMDJM002	10/28/2016
John Cruz	johnc@rothwell-construction.com	WPCMROTH001	10/28/2016
Drew Hane	drew@stormwaterprosl.com	WPCMSWP001	10/28/2016
Brian Bauer	Brian@stormwaterprosl.com	WPCMSWP002	10/28/2016

12/15/2016 - CD District			
Name	E-mail	Company	Training Date
Kevin Huber	kevin@challengerconstruction.com	WPCMCCC001	12/15/2016
Ty Parsley	typarsleywork@gmail.com	WPCMCCC002	12/15/2016

Appendix I – Training Certification Program

Consent Decree & Land Disturbance Training



MoDOT 2015

Training Schedule

- Consent Decree Overview
- New Stormwater Compliance Site
- General Permit Update
- Erosion/Sediment Control Overview
- Quiz

Training Rules

- **SIGN IN!**
- Cell Phones on Vibrate
- Ask Questions
- Share Lessons Learned

Consent Decree – What does it even mean?

- Consent Decree – “An agreement or settlement to resolve a dispute between two parties without admission of guilt (criminal) or liability (civil)”
- Frequent Occurrences:
 - Antitrust Laws
 - Employment Discrimination
 - Environmental Regulation

Consent Decree – Why MoDOT?

- Previous NOV's
- Route 67
- Route 54

Route 67 – Wayne County (2010)

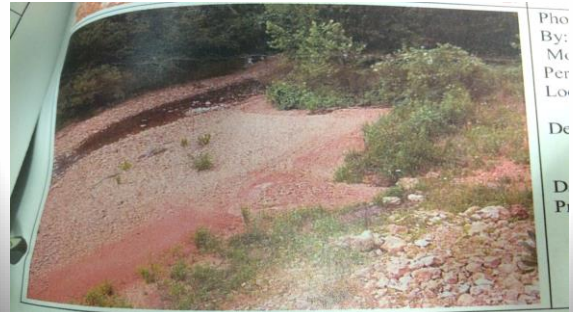


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Route 54 – Camden County (2010-2011)

Notice of Potential
National Pollution Discharge Elimination System (NPDES)
PERMIT VIOLATIONS

Violation (including permit number): Missouri Dept. of Transportation (MoDOT)
Date: May 24, 2011
Location: I-44 Bridge over
Route 54, Camden County, MO
NPDES Permit Number: MO-0100007-517-210100

Under the Clean Water Act § 402, compliance is required with all conditions of the permit. The following are potential violations identified during the inspection on 5/24/11.

POTENTIAL NPDES PERMIT VIOLATIONS

1. Failure to keep accurate records of all discharges and outfalls of pollutants.

2. Failure to properly store and handle materials.

3. Failure to install temporary BMPs in at least 100 feet of the ditch line.

4. Failure to install permanent BMPs in at least 100 feet of the ditch line.

5. Failure to maintain the BMPs as required by the permit.

6. Failure to conduct site check dams per SUPP 510.

7. Failure to use appropriately sized material.

8. Failure to perform weekly inspections of the BMPs.

REQUIRED ACTION: Within ten (10) days, please describe in writing any actions taken to correct the potential violations identified above. Your response will be considered in the event of further administrative or legal action. Mail your description of corrective action to:

U.S. Environmental Protection Agency
8202/JENWC
901 North 5th Street
Kansas City, Kansas 66101-2907

Inspector's printed name: WLE COWLES

Why EPA Why?

- The Clean Water Act (1972) has always had the requirements of the Consent Decree!
- Maximum Civil Penalty is \$37,500 per violation per day without administrative order
- MoDOT is "Chronic Violator"?

Why EPA Why?

- Stormwater Compliance = “National Enforcement Priority”
- Contaminated Stormwater – EPA Top national priority list
- 2009: Head of EPA “vowed” to congress that stronger action for CWA violation would be taken

Not Just DOTs!



- \$3.1 Million + National Compliance System
- \$1.3 Million + National Compliance System

United States of America vs MoDOT

IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF MISSOURI

UNITED STATES OF AMERICA,)	
Plaintiff,)	
)	Civil Action No.
v.)	<u>CONSENT DECREE</u>
MISSOURI HIGHWAYS AND)	
TRANSPORTATION COMMISSION,)	
Defendant.)	

CONSENT DECREE

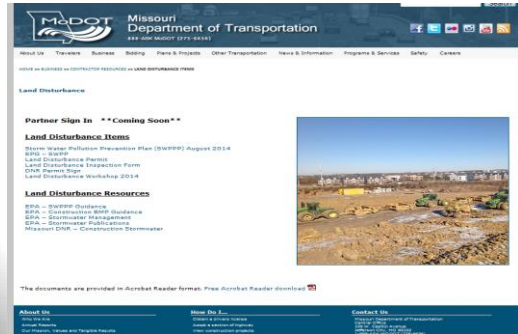
Consent Decree – MoDOT - Basics

- Any project > 1 acre on ROW SHALL comply
- Required to self report using online database
- Subjected to 15 stipulated penalties
- Duration of at least 3 years
- MoDOT Pays civil penalty of \$750,000

CD and LD Resource Center

- <http://modot.gov/ld>
- Kopinski 573-751-2790
- MoDOT District Experts

Modot.gov/LD



Decree Schedule

- 30 Day Public Notice – Completed
- July 1st – Target Date for Starting Database
- July 1st – August 1st: Documented Signed by Everyone
- 120 Days after Federal Judge Signs: Penalty Count Begins for ALL Projects!

Stipulated Penalty #1

- Designate and Maintain Stormwater Compliance and Environmental Specialist:
 - Employee of MoDOT
 - Competent
 - Develops and Updates Stormwater Training
 - Prepares Written Annual Report to EPA
 - Oversee Statewide Projects
 - Coordinates Environmentally Sensitive Areas
 - Reviews Outstanding Deficiencies Every 14 Days
 - Serves at Point of Contacts for EPA
 - Hold Authority to Issue Stop Work for Erosion Issues
 - Holds Authority to Approve Change Orders up to \$100,000

Stipulated Penalty #1

Failure to Comply:
\$1000 – Initial Violation
\$750 – Every 14 Days

Stipulated Penalty #2a

- Appoint and Maintain Environmental Inspector for Every Project (MoDOT):
 - Assigned by July 1st for Active Projects
 - Assigned Before Starting Any New Project
 - Complete This Training Before August 1
 - Attend The Land Disturbance Pre-Activity Meeting
 - Be on-site 3 Days per Week until Project Seeded
 - After Seeded Be on-site 1 Day per Week until 70% Established Vegetation
 - Perform All Weekly and Post-Runoff Inspections Reports
 - Create and Distribute Reports in New Database
 - Update Project SWPPP to Reflect Site Conditions

Stipulated Penalty #2b

- Appoint and Maintain Water Pollution Control Manger for Every Project (Contractor):
 - Be Knowledgeable with NPDES Permit
 - Be Knowledgeable with SWPPP
 - Be Knowledgeable with MoDOT's Consent Decree
 - Complete this Training by July 1st
 - Attend the Land Disturbance Pre-Activity Meeting
 - Review and Sign the Project Specific SWPPP
 - Visit Project at Least Once Per Week Until Project has Final Stabilization
 - Be Authorized by Prime to Make Decisions Regarding Erosion Control
 - Review and Sign Every Inspection Report Within 4 Days
 - Point of Contact for All Erosion Control Between Prime and Subs

Stipulated Penalty #2

Failure to Comply:
\$750 – Initial Violation
\$750 – Every 14 Days

Stipulated Penalty #3a

- Individuals Shall Properly Trained:
 - MoDOT - July 1st Deadline for Everyone
 - All REs
 - All Environmental Construction Inspectors
 - All Oversight Inspectors
 - Any Employee "Routinely" in SWPPP Development
 - All Employees with Stop Work Authority for Environmental Reasons
 - Re-Certification Every Other Year (Winter 2016)

Stipulated Penalty #3b

- Individuals Shall Properly Trained:
 - External – July 1st Deadline for Everyone
 - Projects Managers or Superintendents
 - Water Pollution Control Managers
 - Environmental Construction Inspectors
 - All Employees with Stop Work Authority for Environmental Reasons
 - Re-Certification Every Other Year (Winter 2016)

Stipulated Penalty #3

Failure to Comply:
\$750 – Initial Violation
\$750 – Every 14 Days

Stipulated Penalty #4

- Pre-Activity Land Disturbance Meeting is Required
 - Shall Occur Prior to ANY Land Disturbance
 - Held on the Physical Project Site
 - Record Meeting Minutes – Save to V Drive or SharePoint
 - All Parties Shall be at On-Site Meeting:
 - MoDOT RE
 - MoDOT Inspector
 - Contractor Project Manager
 - Contractor WPCM
 - All Primes and Subs Project Managers Taking Part in Land Disturbance and/or Erosion Control Activities

Stipulated Penalty #4

Failure to Comply:
\$750 – Initial Violation
\$250 – Every Day After

Stipulated Penalty #5

- Inspection Protocol Needs to be Created
 - Before July 1st Kopinski Shall Create “New” Inspection Protocol
 - Everyone Shall be Provided a Copy of Protocol
 - Inspections Occur Every Week or After Runoff Event
 - All BMP Need to be Checked During an Inspection
 - All Outfalls Checked 50 Feet Downstream
 - Inspections Entered Within Time Requirements
 - REs and WPCM Need to Approve within Requirements
 - Check www.modot.gov/ld for Protocol

Stipulated Penalty #5

Failure to Comply:
\$750 – Per Day

Stipulated Penalty #6

- Weekly Inspections and Run-off Inspections Shall Be **Performed** Per the Consent Decree
 - Inspectors Shall Document Any and All Deficiencies
 - Document Date Each Deficiency is Addressed
 - List Any Deficiency Not Corrected on Previous Inspection
 - “Signed” By Person Performing Inspection
 - By Signing Agreeing Project SWPPP is Up-to-Date
 - RE and WPCM (Contractor) Need to “Sign” Within 3 Days

Stipulated Penalty #6

Failure to Comply:

\$500 – Initial Missed Inspection

\$100 – Per Day Until Performed

Stipulated Penalty #7

- Weekly Inspections and Run-off Inspections Shall Be **Documented** Per the Consent Decree
 - 24 Hours to Enter Reports if you have Wireless Internet
 - 48 Hours to Enter Reports if No Wireless Internet
 - “Day” = Calendar Day
 - If and Only If Last Day Falls on Saturday, Sunday or Federal Holiday Allowed Until Next Business Day

Stipulated Penalty #7

Failure to Comply:

\$100 per Day

Stipulated Penalty #8

- The RE from MoDOT and the WPCM from the Contractor Shall “Sign” Inspections
 - The RE has 3 Days to “Sign” Each Inspection Report
 - The WPCM has 3 Days to “Sign” Each Inspection Report

Stipulated Penalty #8

**Failure to Comply:
\$250 per Report**

Stipulated Penalty #9

- Environmentally Oversight Inspections, When Required Shall Be Performed Per the Consent Decree
 - If in a Environmentally Sensitive Area
 - If Project is > 5 Acres of Disturbance
 - Oversight Inspections Shall be Performed Every 90 Days

Stipulated Penalty #9

**Failure to Comply:
\$1000 per Initial Violation
\$250 per Day Until Performed**

Stipulated Penalty #10

- Any Violation of the Statewide Land Disturbance Permit OR SWPPP Requirement
 - Our Self Reporting System does NOT Record Any of These
 - Example: Diamond Grinding and Discharging into Creek or Inlet
 - Example #2: No Dewatering Plan and Pumping into River

Stipulated Penalty #10

Failure to Comply:

- **\$1000 Per Initial Violation**
- **\$2500 for Days 11-20**
- **\$3500 for Days 21+**

Stipulated Penalty #11

- Failure to Correct ANY Deficiency on an Inspection
 - Any Deficient or Failed BMP Must Be Corrected Within 7 Days

Stipulated Penalty #11

Failure to Comply:

- \$1000 per Deficiency Day 1-10**
- \$2500 for Days 11-20**
- \$3500 for Days 21+**

Stipulated Penalty #11

BMP Discussion!

Stipulated Penalty #12

- Failure to Enter an Item into the Database
 - Inspectors Shall Enter Every Deficiencies into Database
 - Provide Location
 - Provide Description
 - Provide Type of BMP

Stipulated Penalty #12

**Failure to Comply:
\$200 per Day per Deficiency**

Stipulated Penalty #13

- Failure of RE or Kopinski to Perform Compliance Review
 - REs: Every 7 Days
 - Kopinski: Every 14 Days
 - E-mail Reminders are in Place if you are Assigned to Project

Stipulated Penalty #13

**Failure to Comply:
\$200 per Day**

Stipulated Penalty #14

- Failure to Submit a Spill Report
 - Anytime the Spill or Emergency Reporting Provision of our Permit is Triggered
 - 3 Days to Submit Written Report to EPA
 - Current Permit: Hazardous Substance or Soil Contamination Discovered or Oil Spill
 - New Permit: DNR/EPA Requesting More Effort
 - Look for Additional Guidance on www.modot.gov/ld

Stipulated Penalty #14

Failure to Comply:
\$750 per Report Initial Violation
\$750 Every 14 Days

Stipulated Penalty #15

- Any Other Violation of the Decree Not Specified
 - Catch All for if EPA Visits/Audits Projects

Stipulated Penalty #15

Failure to Comply:
\$100 per Violation per Day

Questions – Stipulated Penalties



Break Time!



Any Questions Over Penalties



Other Consent Decree Items

- Documentation
- Land Disturbance Pre-Activity Meetings
- Environmentally Sensitive Areas
- On-Site Visits

Documentation

- Must Keep All Documents until 3 Years After Decree is Terminated (October 2018 or longer)
- We Need to Provide EPA/DNR Any Requested Information
- Start Taking More Pictures!

After Picture



After Picture



Before Picture



Pre-Activity Meeting

- Pre-Activity Land Disturbance Meeting is Required
 - Shall Occur Prior to ANY Land Disturbance
 - Held on the Physical Project Site
 - Record Meeting Minutes – Save to V Drive or SharePoint
 - All Parties Shall be at On-Site Meeting:
 - MoDOT RE
 - MoDOT Inspector
 - Contractor Project Manager
 - Contractor WPCM
 - All Primes and Subs Project Managers Taking Part in Land Disturbance and/or Erosion Control Activities
- If Needed Hold Another Meeting!

Environmentally Sensitive Areas



Environmentally Sensitive Areas

- Additional inspections if > 5 Acres
- 5 Acres < X < 25 Acres Same District
- 25 Acres < X < 300 Acres Another District
- X > 300 Acres Central Office

Environmentally Sensitive Areas

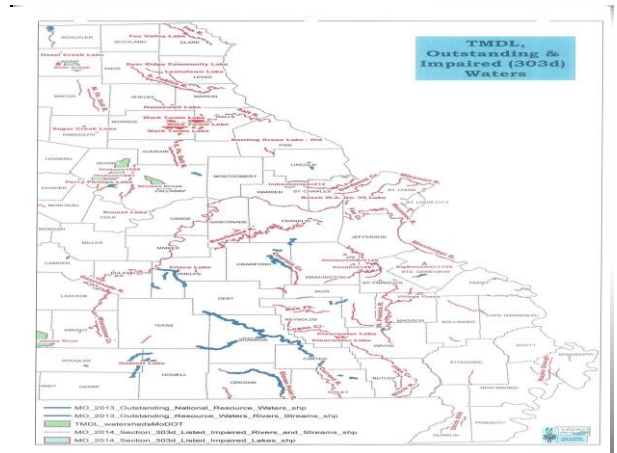
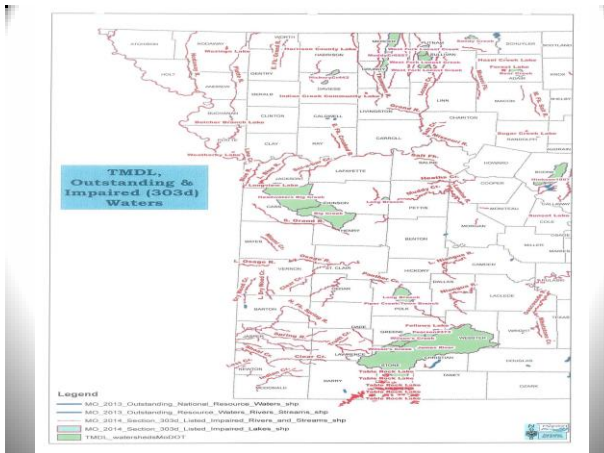
- Any area which would be directly impacted by Stormwater discharges:
 1. Federally Listed Threatened or Endangered Species
 2. Sediment Impaired Body of Water (303d)

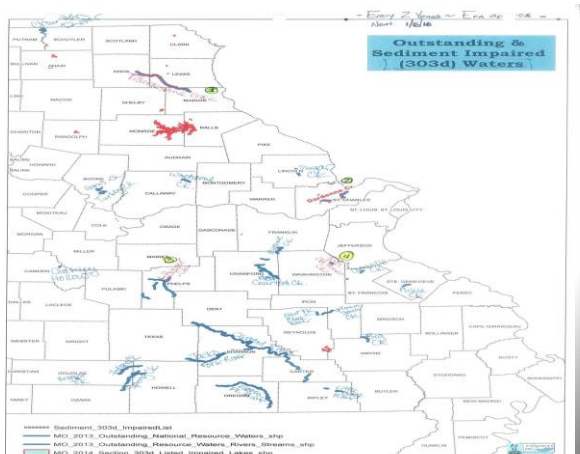
1. Federally Listed Threatened or Endangered Species

- Only 5 “Critical Habits” Caves/Counties where Indian Bats are Designated
- USFWS Identifies Species and MoDOT Working to Ensure Every Project is Covered

2. Impaired Body of Water (303d)

- Issued every 2 years by DNR and approved by EPA
- Expect next update to be out soon for January 2016





303D – Systems Works



On-Site Project Visits - Quiz

- MoDOT Inspectors Shall Visit?
 - At least 3 days per week!
- MoDOT RE Shall Visit?
 - At least once per every 30 Days!
- Contractor's WPCM Shall Visit?
 - At least once per week!
- When does everyone need to stop visiting?
 - When Project has Achieved Final Stabilization!

Consent Decree Projects

- Any project > 1 acre on ROW SHALL comply
 - MoDOT Project with IP – YES
 - Design Build - YES
 - Maintenance Projects - YES
 - Permit Projects - YES
 - LPA Project - YES
 - Utilities Project – YES

Database Time ☺

Site Manager Contract ID:
 Site Manager Project Number:
 Engineer Last Name:
 District:

Events to Date:

Project Number	Contract ID	Engineer Name	Location	Scale	Location	Open Acres	Disturbed Acres	Authorized Acres
JR02187	14021008	ALAN BRAN	COOPER	41	near Lumbia River 0.0 Lumbia	3	3	3
JR02188	14021002	HOLY BRAN	BOLLINGER LAKE BRANEREAU	34	near Lumbia River 0.0 Lumbia	3	3	17
JR02179	14021001	WAGHAUSEN, SCOTT	ST LOUIS CITY	84	at Poplar Street bridge interchange	2	2	11
JR02178	14021008	LEWIS, JOHN	ST LOUIS	141	near to I-10 at I-10 at I-10	1	1	8
JR02177	14021008	GRIPPA, DONALD	SPRINGFIELD	46	at the intersection of Battlefield Rd in Springfield	9	9	46
JR02176	14021001	VORIS, JIM	JACKSON	18	near south of Hwy 40 to south of Jackson Hwy	18	18	20
JR02175	14021008	SANDERS, JOHN	CARDEN	5	near I-10 Hwy 10 to Spring Creek Dr to Spring Creek	3	3	5
JR02174	14021008	SANDERS, JOHN	MORGAN	120	near Route 12 to Route 1 near Lumbia	9	9	20
JR02173	14021008	WETTER, THOMAS	SHAWNEE	18	at County Road 100 and County Road 100	1	1	3

Database

- Developed by MoDOT for MoDOT
- This is NOT SiteManager
- Daily E-mail at 7am
- Improvements: Wants vs Needs
- Any Outages Call Kopinski



How are Projects Pulled Into System?

- Only Pulled into System if Authorized Acres > 1
- If Project Needs Pulled in Immediately Call
- Once Disturbed > 1 Acres = Penalties Begin

Challenge #1

- Everyone needs to Update in SiteManger
- QRG on how to Update Acreage
- Lets check out the QRG – WWW.GOOGLE.COM

Challenge #2

- What about All the Other Projects!!
- Currently Working with IS to Develop
- Let me Know if your Project Needs in the System

What does Database NOT do?

- Project Specific SWPPP
- Red Line Drawings to Plan Sheets
- Keep Inspection Reports

Every MoDOT project with one or more acres of total land disturbance must complete the following project-specific site information and retain it as part of the SWPPP. See Figure 806.8.2 for an example of how to complete this form.

MISSOURI DEPARTMENT OF TRANSPORTATION Form 806.8.2 Project-Specific SWPPP Information

Project Number: _____ County: _____ Route: _____

Project Description: _____

Estimated Project Start Date: _____

Estimated Project Completion Date: _____

BE Name: _____

Erosion and Sediment Control Inspector(s) Name(s): _____

Primary Contractor(s) Name(s): _____

Erosion and Sediment Control Contractor(s) Name(s): _____

Seed and Mulch Contractor(s) Name(s): _____

Total Anticipated Disturbed Acreage for the Project: _____

Primary Receiving Water(s) for the Project: _____

Location of Public Notification Sign(s) (Note: Must be Viewable to the Public): _____

Additional Project Notes: _____

404/401 Permit Required Obtained for this Project? ☒ Yes ☐ No

Attach a map or maps depicting the project location/alignment with enough detail to show waters of the United States within 1 mile of the project.

MISSOURI DEPARTMENT OF TRANSPORTATION LAND DISTURBANCE INSPECTION RECORD

Project Number: J02187
Review: 1
Location: From Jet Ski Rd. to Signing Oaks Dr in Sunrise Beach
County: CAMDEN
Inspector ID: 03
Inspector Certified Date: 04/13/2015 - seminar
WPCW Certified Date: Not Certified
Inspector: SAMOAH, RICKY
Inspection Date: 04/13/2015
Acre(s) Open: 3
Precipitation Inches: 0.50
Inspection Type: Post-Runoff
RE Certified Date: 04/14/2015 - samdgt4
Date Entered: 04/13/2015
Acre(s) Disturbed: 3
Precipitation Duration: 24 Hours 0 Minutes

Land Disturbance Inspection Checklist

Current and updated SWPPP/site map on site when the erosion & sediment control inspector is on site and a copy given to the contractor? ☒ Yes
Permit public notification sign(s) posted and visible to the public? ☒ Yes
Are all erosion and sediment control BMPs properly installed, maintained, functioning as intended according to the SWPPP and depicted on the site map? If "No", explain each deficiency below. ☒ Yes
Are BMPs in place to protect streams, wetlands and other environmentally sensitive areas from potential? If not, describe each deficiency. ☒ Yes
Is trackout controlled at project entrance/exit points? If not, describe each deficiency. ☒ Yes
Are active stormwater intake susceptible to receiving sediment properly protected? If not, describe each deficiency. ☒ Yes
Are dewatering operations taking place on the project? ☒ No
Does the project have a dewatering plan? (Required by permit if dewatering operations occurring.) ☒ N/A
Are dewatering operations effectively removing sediments from the water? ☒ N/A
Are filter, construction debris, fuels, lubricants and other construction chemicals controlled? If not, describe each deficiency. ☒ Yes
Have all temporary BMPs that are no longer necessary been removed and removal depicted on the site map? ☒ N/A
Have all outfalls been observed for evidence of erosion and/or sediment deposition? If not, provide an explanation of which outfalls were observed and why others were not. Document the condition of the outfalls and if any corrective action and/or additional BMPs are needed. ☒ Yes
After observing the receiving stream(s) for 50 feet downstream of the outfall(s), was outfall protection adequate? ☒ Yes

General Inspection Questions

Describe areas where land disturbance activities have temporarily or permanently ceased. (Excluding weather shutdowns). Describe how these areas have been or will be stabilized. ☒ Yes
Provide a brief description of the current project status with regard to erosion and sediment control and the effectiveness of BMPs. Too wet for production. ☒ Yes

Let Go Live



Consent Decree – Contract Administration

- Construction Projects – New JSP
- Permits – Working to Add Language to Permits
- LPA – Incorporate into JSP
- Cost Shares – Need to Write it into Agreements
- Utilities – Good Luck (Permits, MUAs, etc)

Consent Decree – Off MoDOT ROW

Any Location off of MoDOT ROW needs to obtain their own Permit!!!

- Contractor's Borrow Site
- Contractor's Storage Site
- LPA Projects
- Permit Project

Contract Administration – Best Practices

- Keep All Project Under 1 Acre of Disturbance if at All Possible

When We Do Break 1 Acre Set Up Good Erosion Control in Design Such that Life Will be Easier Implementing

- Be Sure BMPs are Best Selection and Properly Installed!

Break



<https://www.youtube.com/watch?v=A3yYN5N8wkM>

Land Disturbance Training



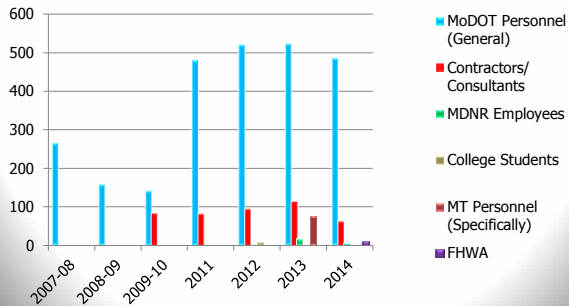
Why is Land Disturbance Important

- Erosion and Sediment loss leads to poor water quality
- Public Expectations
- It is the Law
- Fines and Penalties can and will be imposed

Education and Awareness

- Everyone needs to do their part
- To make this happen we need to train and educate everyone
- Make the effort to stay knowledgeable. Keep up with changes!
- Contractors and other Departments are Looking for YOUR Leadership!

MoDOT's Training History



Land Disturbance Regulation History

- 1972 Clean Water Act
 - Permit Required to Discharge
 - Missouri – Missouri State Operating Permit
 - National System – National Pollutant Discharge Elimination System (NPDES)
- Point Sources (72) Non-Point Sources (87)
- Phase II Effect > 1 Acre

Permit – Prohibited Acts



Permit – Prohibited Acts

- To Exceed General or Specific Water Quality Criteria
 - Free from: Oil, Scum, Floating Debris, Unightly Turbidity, Harmful Effect on Human or Aquatic Life



Permit – Prohibited Acts

- To Exceed Permit Limits
 - 2.5 ml/L/hr for Settleable Solids

October 2, 2014 1:03pm



October 2, 2014 2:38pm



Imhoff Cone Test

E. SAMPLING REQUIREMENTS AND EFFLUENT LIMITATIONS

1. Settled Solids discharging from a stormwater outfall shall not exceed 2.5 mL/L per Standard Method 2540 F for storm events up to but not exceeding the local 2-year, 24-hour storm. The Settled Solids limit does not apply during storm events that exceed the local 2-year, 24-hour storm.
2. The Department may require sampling and reporting as a result of illegal discharges, compliance issues, complaint investigations, or other such evidence of contamination from activities at the site. If such an action is needed, the Department will specify in writing any sampling requirements, including such information as location, extent and parameters.

Disturbed Areas

- **Erodible Areas – Areas Exposed or Inadequately Protected Soil or Surface**
- **Disturbed Areas – Areas that Have Not Reached Final Stabilization in Accordance with the Permit**
- **For Example Seed and Mulch may Make your Area Non-Erodible, but still Disturbed Until 70% Vegetative Cover is Established!**

Inspections

- Inspection Ever 7 Days
- Runoff Event Needs to be Performed within 48 Hours
- Step by Step Guide as you Fill Out

[illegible]

Inspection Report Log

[illegible]

Inspection

- Inspect Receiving Streams and Make Adjustments
- Permit Says Look 50' Downstream of Last BMP
- Take Pictures!



Public Notification

Missouri
Department of
Natural Resources

STORMWATER DISCHARGES FROM THIS LAND
DISTURBANCE SITE ARE AUTHORIZED BY THE
MISSOURI STATE OPERATING PERMIT NUMBER:

MO-R100007

IF YOU HAVE QUESTIONS OR
CONCERNS ABOUT STORMWATER DISCHARGES
FROM THIS SITE,
PLEASE CONTACT THE MISSOURI DEPARTMENT
OF NATURAL RESOURCES AT

1-800-361-4827

Storm Water Pollution Prevention Plan (SWPPP)

- Each Site Shall Have One
- Prepared Before Dirt is Moved
- Dynamic – Changes with Project
- Document All Changes – Written and Plans
- Includes Weekly Inspections – Every 7 Days
- Includes Post-Runoff Inspections – In 48 Hours
- Includes BMP Maintenance Plan (Construction)
- Includes Removal of BMPs and Restoration

Storm Water Pollution Prevention Plan (SWPPP) – Site Specific

MISSOURI DEPARTMENT OF TRANSPORTATION
Project Specific SWPPP Information

Project Number: 8902502 County: Reynolds Route: 81

Project Description: Construct new lanes to expand this route to a 4-lane facility. 1 bridge and one RCB will be constructed as part of this project.

Estimated Project Start Date: April 22, 2014

Estimated Project Completion Date: April 22, 2014

BE Name: Michael J. Johnson

Erosion and Sediment Control Inspector(s) Name(s): Chris Martin, Frank Searcy, Summer Davis B

Primary Contractor(s) Name(s): Paul Nove Public Inc.

Erosion and Sediment Control Contractor(s) Name(s): Sediment Transport Erosion Control

Seed and Mulch Contractor(s) Name(s): McClintock Inc.

Total Anticipated Disturbed Acreage for the Project: 10 acres

Primary Receiving Stream(s) for the Project: Reynolds River, First Creek, Bottom Branch

Location of Public Notification Sign(s) (Note: Must be Viewable to the Public): Intersection of this Road

Additional Project Notes: This project is the second of four phases to complete this corridor.

404-01 Permit Required Obtained for this Project? ☒ Yes ☐ No

Attach a map depicting the project location/alignment with enough detail to show waters of the United States within 1 mile of the project.

Lessons Learned – SWPPP Violations

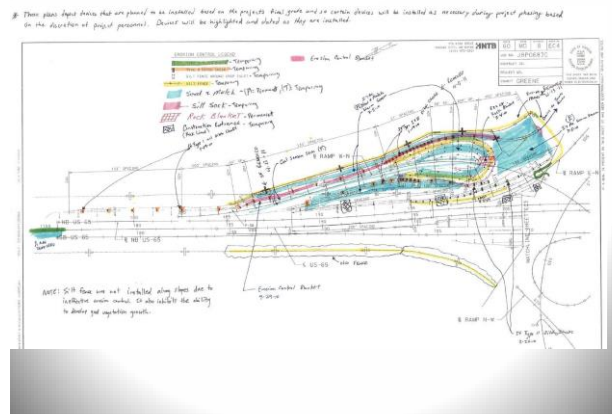
- “Failure to Develop” an adequate SWPPP
- “Failure to Properly Implement” an adequate SWPPP
- “Failure to Update or Amend” the SWPPP
- “Failure to Properly Operate & Maintain BMPs” in Accordance with the SWPPP
- Historically Focused on SWPPP for Enforcement.
- MoDOT Must Improve in this Area!

SWPPP – Site Maps

- Identify Site Boundaries and Outfall Locations
- Directions of Stormwater Flow and Approximate Slopes After Grading Activities
- Areas of Soil Disturbance and Areas Not to be Disturbed
- Locations of Major Structural and Non-Structural BMPs
- Locations of Stabilization Expected
- Locations of Waste, Borrow, or Stored Dirt
- Locations of All Waters of the US
- Locations of Stormwater Discharge to Surface Water
- Areas of Final Stabilization

Site Map – Information Needed

- Structural BMPs (More Info in Next Slides)
- Non-Structural BMPs (More Info in Next Slides)
- Where BMP is to be Located
- When BMP was Installed and Removed
- Operation and Maintenance Procedure
- Installation and Construction Procedures
- Conditions Necessary for BMP Effectiveness



BMP Guidance/Review



Limit Clearing if Possible

- Factors that Should be Considered
 - Site Conditions
 - Resources of the Contractor
 - Contractor's Plan for E&S
 - Response to Deficiencies
 - Contractor's History of Compliance

Vegetation Buffer

- Mark Out Buffer & Preservation Areas Prior to Disturbance
- Great Topic for the Pre-Activity Meeting



Grass BMP = Good



Disturbed Area – Temporary Stabilization

- “Steep Slopes” have Stricter Requirements
 - Greater than 3:1 Slopes
 - Greater than 150 in Length
- Within 7 Days of Ceasing Operations
- “Normal Slopes” 14 Days of Ceasing Operations
- Push to Cover Up Areas ASAP!

Do Not Delay, Seed and Mulch Today!



Disturbed Areas – Final Stabilization

- Final Stabilization Shall be Initiated Immediately after Activities Have Ceased
- 7 Day Window to Begin Stabilization, However Must be Documented
- 7 Day Exemption Allows for Weather or Equipment Issues

Final Stabilization - Seed



Vulnerable Slopes



Erosion Control Blankets



Fiber Reinforce Matrix & Flexible Growth Medium



Channel Slope Armoring



Ditch Checks

- One of the Most Visible Items on a Project
- Toe to Top Installation
- Extend Across Entire Ditch. Now Paid by LF
- Pick Type Based on Drainage Area and Expected Flow Volumes/Velocities

Ditch Checks

Ditch Checks – For CONCENTRATED Flow
(Evaluate Carefully For Conditions)

Rock Ditch Check (New – 18" Eff. Hght)

Alternate Ditch Checks (New – 9" Eff. Hght)

- Tri-Dikes
- Socks/Logs
- Compost or Mulch with ECB Covering
- Sandbags
- Etc.



Triangular Silt Dike



Triangular Silt Dike



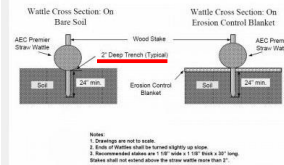
Wattles/Socks/Logs



Wattles/Socks/Logs

How are Contour Straw Wattles Installed?

- Layout a contour line on the slope with a hand level and wire flags.
- Dig a shallow depression (about 3 to 4 inches deep) and lay the wattle into it.
- Drive a 1x2 or 2x2 wooden stake through the center of the wattle at least 4 inches into the ground, stopping about two inches above the wattle.
- Put 5 stakes in each wattle, installing them end to end in the trench.
- Seat the wattle with foot tamped backfill on the upstream side such that water flowing down the slope will not run under it.



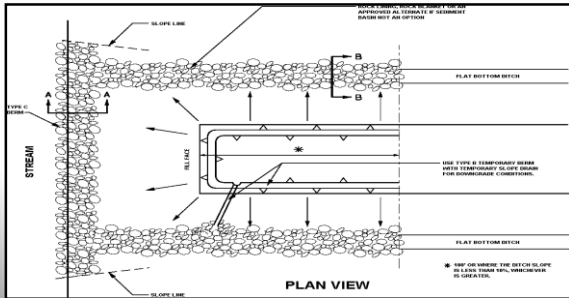
Temporary Stream Crossings

- 404 Permit Allows MoDOT to use Crossings
- Sized Sufficiently – Don't Want to Create Backwater in 2 Year 24 Hour Storm Event
- Fill Shall be Clean Rock

Temporary Stream Crossing



Type C Berm - Bridges



Area of Improvement - Dewatering

- Think Pump = Plan
- Need Documented Plan
- Include Anticipate Volumes and Flows



Concrete Washout

- Concrete Washout and Diamond Grinding Shall be Controlled
- Do NOT Allow Either to Reach Groundwater



Flocculants

- Flocculants can Help Drop the Colloids Out of Suspension and Decrease Turbidity
- Goes Above and Beyond What is Required!



Soil Amendments (Pilot Project?)

- Preserve Topsoil for Reuse when Possible
- In Areas of Poor Soils, This may be Necessary to Get Needed Growth



Sediment Basins



Sediment Traps



High Risk - Entrances



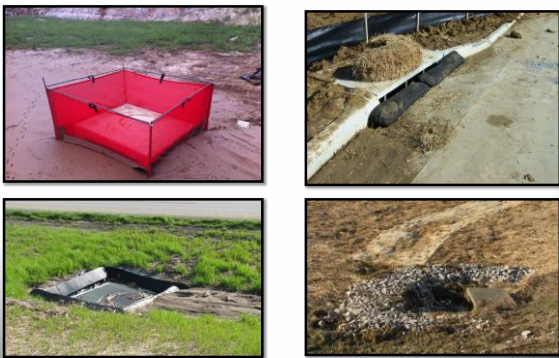
Lesson Learned - Inlets



Lesson Learned - Inlets



Inlet Protection



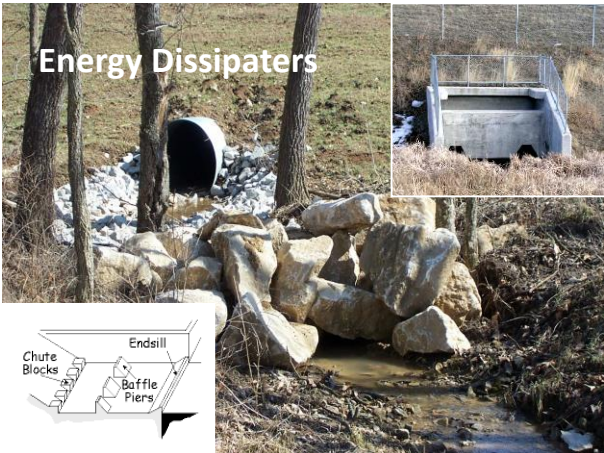
Silt Fence

- Highly Visible
- Over-Installed at Point Flow Perimeter Locations
- Designed for Sheet Flow





Avoid/Limit - In Stream BMPs



Mulch – Perimeter Control



BMP Inspect & Maintain

- All Devices Shall be Maintain for All Devices Until Final Stabilization
- Any BMP Should be Cleaned Out When They Reach 50% Full
- Keep Site Looking Clean and Neat!

BMP Inspect & Maintain

- All BMPs Shall be Maintained throughout Project
 - If Half Full, Clean It
 - If Broke, Fix It
 - If Leaks, Plug It
 - If No Longer Needed, Remove It



Temporary BMPs Removal

- Any BMP that is not Biodegradable Needs to be Removed
- Remove Temporary BMP when area has Established Growth
- Don't Remove until YOU are Comfortable



Last Chance for Questions



Appendix J – Designation of Water Pollution Control Managers

Active Projects as of December 31, 2016

District	Contract ID	Route	Contractor	Project WPCM	Training Date	Backup WPCM	Training Date
NW	160122-A01	36	Lehman	Shannon Jenkins	7/1/2015	Ryan Porter	7/1/2015
NW	160219-A01	13	Phillips Hardy Leavenworth	Mark Lea	6/30/2015	Kris Fath	6/24/2015
NW	160318-C06	92	Excavating	Ron Wagner	6/9/2015	Jeff Bollin	6/9/2015
KC	150320-C07	50	Chester Bross	Anthony Mullen	6/5/2015	N/A	N/A
KC	150417-C01	50	Chester Bross	Kevin Leahr	6/22/2015	Robert Smith	5/18/2015
KC	160318-C02	23	L. G. Barcus	Steve Kaspar	6/24/2015	Roberto Varela	6/9/2015
KC	160318-C03	Various	Widel	Joseph Samer	6/30/2105	Bradley Vollmer	8/12/2016
KC	160624-C01	435	Clarkson	Orion Fox	8/12/2016	Chad Bird	8/12/2016
KC	160624-C07	45	Clarkson	Orion Fox	8/12/2016	Cole Kagarice	8/12/2016
KC	CM0916RTEW	W	Ideker	Jack Neel	6/6/2015	N/A	N/A
CD	151023-D02	8	H.R. Quadri	Steve Bubanovich	6/17/2015	Robert Sullivan	6/12/2015
CD	151120-D06	94	Capital Paving	Casey Castrop	6/9/2015	Tyler Smith	6/29/2015
CD	160219-D02	54	Magruder				
CD	160219-D02	54	Magruder	Wayne Ramsey	6/29/2015	Henry Burkemper	6/8/2015
CD	160415-D03	19	N.B. West	Keith Denney	6/8/2015	Bryan Fleer	6/8/2015
CD	160415-D04	17	N.B. West	Keith Denney	6/8/2015	Loren Cahill	6/8/2015
SL	150417-F03	D	N.B. West	Justin Zimpfer	6/8/2015	Kevin Leftridge	6/23/2015
SL	151120-F04	185	N.B. West	Keith Denney	6/8/2015	Loren Cahill	6/8/2015
SL	160122-F03	70	Millstone Weber	Brandy Broeckling	6/8/2015	Tom Scalon	6/8/2015
SL	160210-F01	141	Pace	Bill Abney	6/23/2015	Tommy Helfrich	7/14/2016
SL	160520-F01	47	Alberici	Todd Strong	5/12/2015	Mitchell Shaneberger	6/4/2015
SL	160520-F10	N,	Phillips Hardy	Mark Lea	6/30/2015	Kris Fath	6/24/2015
SL	161021-F01	64	KCI	Chris Schoenberger	2/25/2016	N/A	N/A
SL	TR1024RTEZ	Z	Bloomsdale	Jeff Stirnemann	7/14/2016	Thomas Joyner	7/14/2016
SL	TR1115R364	364	Gershenson				
SW	141121-G08	249	Branco	Jack Brown	6/30/2015	N/A	N/A
SW	150320-G02	60	Emery Sapp	David Tag	6/9/2015	N/A	N/A
SW	150821-G02	13	APAC-Central	Tyson Bahner	6/30/2015	N/A	N/A
SW	151120-G06	14	Hartman	Jim Fisher	6/30/2015	Joshua Wiertzema	2/22/2016
SW	160219-G11	65	Emery Sapp	David Tag	6/9/2016	Justin Smith	6/15/2015
SW	CM0616BS65	Bus 65	Dirt Worx	Troy McShane	6/14/2016	Brent Keitner	6/14/2016
SE	150515-H10	63	Chester Bross	Eric Siebuhr	6/17/2015	Shane Johson	6/17/2015
SE	150925-H03	M	United Ironworkers	Chris Ehlen	6/17/2015	Rodney Williams	1/26/2016
SE	160318-H07	O	Magruder	Henry Burkemper	6/8/2015	Dwight Tilling	6/23/2015
SE	160415-H06	M	H.R. Quadri	Steve Bubanovich	6/17/2015	Robert Sullivan	6/12/2015
SE	160520-H03	AC	Emery Sapp	Josh Derhoff	6/29/2015	Tampus Tuggle	6/24/2015

- Projects that do not exceed one acre of disturbed ground.

Projects with Final Stabilization in 2016

District	Contract Id	Route	Contractor	Project WPCM	Training Date	Backup WPCM	Training Date
NW	150417-A01	N	Widel	Joseph Samer	6/30/2015	Aaron Widel	6/30/2015
NW	151120-A02	48	Widel	Joseph Samer	6/30/2015	Bradley Vollmer	8/12/2016
NE	150515-B04	61	Bleigh	Steve Ward	6/22/2015	N/A	N/A
KC	150515-C05	I-49	Emery Sapp	Kyle Frye	6/24/2015	Alan Million	6/9/2015
KC	160122-C02	7	Miles	Reif Brian	2/22/2016	Nick Gardner	2/22/2016
KC	160122-C04	50	Radmacher	Brian Dinges	6/30/2015	Jason Divine	6/24/2015
KC	160122-C05	291	Gunter	Dan Sobczyinski	2/22/2016	Trevor Donovan	2/22/2016
KC	160122-C08	D	Widel				
KC	160122-C08	YY	Widel				
KC	160122-C10	W	Ideker	Jack Neel	6/6/2015	N/A	N/A
KC	160219-C01	B	Ennis				
KC	160624-C03	T	Phillips Hardy	Kris Fath	6/24/2015	N/A	N/A
CD	150603-D01	I-70	Emery Sapp	Chip Jones	6/26/2015	Shawn Woodsmall	6/9/2015
CD	151023-D05	AA	Schnieders	Daniel Proctor	3/2/2016	Bruce Bax	3/2/2016
CD	160318-D02	70	Capital Paving	Crag Nilges	6/29/2015	N/A	N/A
SL	160122-F01	55	Millstone Weber	Brandy Broeckling	6/8/2015	Tom Scalon	6/8/2015
SL	160318-F13	OR 44 E	N.B. West	Kevin Leftridge	6/23/2015	Brian Fleer	6/8/2015
SL	160415-F01	44	Phillips Hardy	Kris Fath	6/24/2015	Kevin Jones	7/1/2015
SL	CM0616RT44	141	Pace	Bill Abney	6/23/2015	Tommy Helfrich	7/14/2016
SW	150515-G08		Apac- Missouri	Scott Lawson	6/30/2015	Justin Cobb	6/30/2015
SW	151023-G04	B	Radmacher	Brian Yeager	6/30/2015	Ben Cummings	6/30/2015
SW	151120-G03	65	Magruder	Wayne Ramsey	6/29/2015	N/A	N/A
SW	160219-G11	65	Emery Sapp				
SW	160219-G14	744	APAC-Central	James Jiles	6/30/2015	David Evans	6/30/2015
SW	160415-G01	BUS 65	D & E Plumbing				
SE	141017-H06	Various	NW Fence				
SE	150417-H01	PP	RL Persons	Neal Chilton	8/4/2015	Kris Powell	6/17/2015
SE	151120-H06	84	Chester Bross	Eric Siebuhr	6/17/2015	Michael Rich	6/22/2015
SE	160318-HU7	F	Widger	Wayne Ramsey	6/26/2015	Henry Burkemper	6/8/2015

- Projects that do not exceed one acre of disturbed ground.

Appendix K – Project Specific Storm Water Pollution Prevention Plans

900MISSOURI DEPARTMENT OF TRANSPORTATION

Project-Specific SWPPP Information Form 806.8.2

Project Number: J4P3007

County: Clay

Route: 10

Project Description: Bridge replacement, pavement and ADA from Regent Street to Saratoga Street in Excelsior Springs, the total length of improvement being 0.3867 miles.

Estimated Project Start Date: March 1, 2015

Estimated Project Completion Date: December 1, 2015

RE Name: Tom Markway, P.E.

Erosion and Sediment Control Inspector(s) Name(s): Russell Penner

Primary Contractor(s) Name(s): Phillips Hardy Inc.

Erosion and Sediment Control Contractor(s) Name(s): Pine Valley Contracting Inc.

Seed and Mulch Contractor(s) Name(s): Pine Valley Contracting, Inc.

Total Anticipated Disturbed Acreage for the Project: 2 Acres

Primary Receiving Water(s) for the Project: Fishing River

Location of Public Notification Sign(s) (Note: Must be Viewable to the Public): Bulletin Board on edge of road

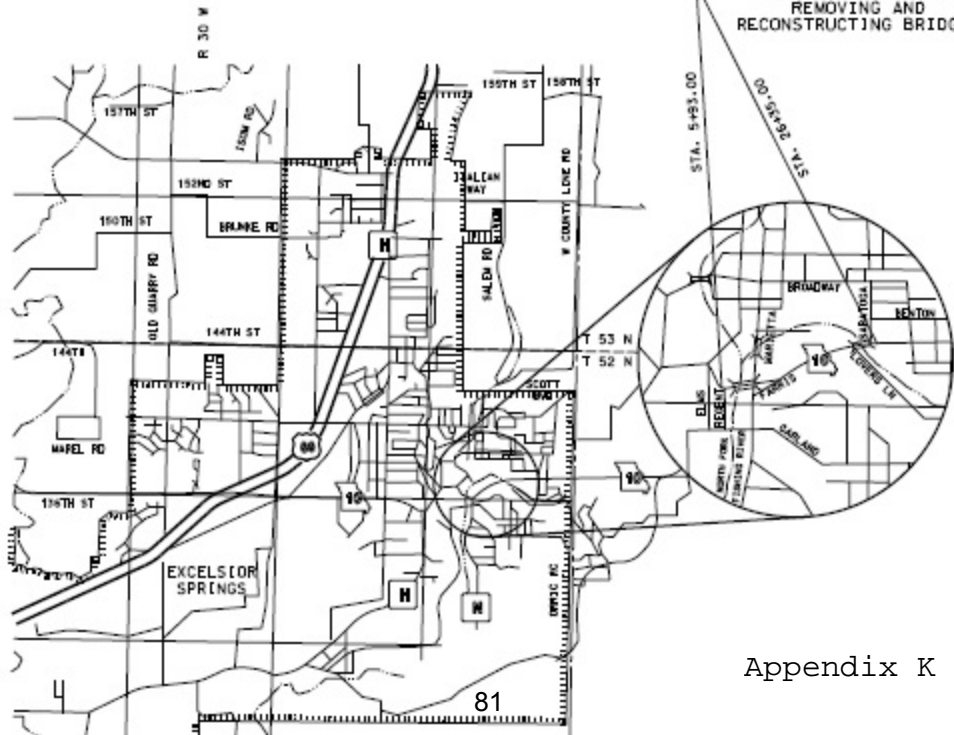
Additional Project Notes: N/A

404/401 Permit Required/Obtained for this Project? ☒ Yes ☐ No

Attach a map or maps depicting the project location/alignment with enough detail to show waters of the United States within 1 mile of the project.

STATE HIGHWAY CLAY COUNTY

PROJECT LOCATION
GRADING, PAVING,
GUARDRAIL, PVMT
MARKING, SIDEWALK,
REMOVING AND
RECONSTRUCTING BRIDGES



Appendix K



MISSOURI DEPARTMENT OF TRANSPORTATION
LAND DISTURBANCE INSPECTION RECORD

Project Number: J4P3007		District: KC	
Route: 10		County(s): CLAY	
Location: from Regent Street to Saratoga Street in Excelsior Springs			
Inspection ID:	3006	Inspection Type:	Post-Runoff
Inspector Certified Date:	05/10/2016 - penner1	RE Certified Date:	05/10/2016 - markwt
WPCM Certified Date:	05/10/2016 - wpcmoldjobwilliams		
Inspector:	PENNER, RUSSELL		
Inspection Date:	05/10/2016	Date Entered:	05/10/2016
Inspection Acres Disturbed:	1		
Precipitation Inches:	0.73	Precipitation Duration:	24 Hours 0 Minutes

Land Disturbance Inspection Checklist

Current and updated SWPPP/site map on site when the erosion & sediment control inspector is on site and a copy given to the contractor?	Yes
Permit public notification sign(s) posted and visible to the public?	Yes
Are all erosion and sediment control BMPs properly installed, maintained, functioning as intended according to the SWPPP and depicted on the site map? If ?No?, explain each deficiency below.	No
Deficiency ID: 2494 <i>Original Report</i> Location: Under Bridge A8222, running along the Fishing River bank. See Site Map 5/10/16 Description: Sediment build-up. Action Needed: Sediment needs to be removed and the silt fence restored to specification. Correction Expected: 05/17/2016 Date Corrected: 05/20/2016	
The deficient section of Silt Fence and sediment was removed and a new section of fence installed. The new section of Silt Fence was installed at the top of the bank and jointed with to older sections of Silt fence.	
Are BMPs in place to protect streams, wetlands and other environmentally sensitive areas from pollutants? If not, describe each deficiency.	Yes
Is trackout controlled at project entrance/exit points? If not, describe each deficiency.	Yes
Are active stormwater inlets susceptible to receiving sediment properly protected? If not, describe each deficiency.	Yes
Are Dewatering operations taking place on the project?	No
Does the project have a dewatering plan? (Required by permit if dewatering operations occurring.)	N/A
Are dewatering operations effectively removing pollutants from the water?	N/A
Are litter, construction debris, fuels, lubricants and other construction chemicals controlled? If not, describe each deficiency.	Yes
Have all temporary BMPs that are no longer necessary been removed and removal depicted on the site map?	Yes
Have all outfalls been observed for evidence of erosion and/or sediment deposition? If not, provide an explanation of which outfalls were observed and why others were not. Document the condition of the outfalls and if any corrective actions and/or additional BMPs are needed.	Yes
After observing the receiving stream(s) for 50 feet downstream of the outfall(s), was outfall protection adequate?	Yes

General Inspection Questions

Describe areas where land disturbance activities have temporarily or permanently ceased. (Excluding weather shutdowns)
Describe how these areas have been or will be stabilized.
All disturbed ground has been covered with FRM.

Provide a brief description of the current project status with regard to erosion and sediment control and the effectiveness of BMPs.

Great vegetation growth. We have reached 70% coverage at the following locations: SW corner of Bridge A8222 along Regent, East side of Marietta, South side of RTE 10 between Ferris and Lover's Lane, NW corner of A8221, SE corner of A8221. See site map

5/10/16 for BMP removal.

Inspection Attachments

MISSOURI DEPARTMENT OF TRANSPORTATION

Project-Specific SWPPP Information Form 806.8.2

Project Number: TL012326 County: St. Charles Route: 70

Project Description: Grading, pavement, bridges from 94 to 5th Street total length 1.642 miles

Estimated Project Start Date: March 7 2016

Estimated Project Completion Date: June 24 2017

RE Name: John Lewis

Erosion and Sediment Control Inspector(s) Name(s): Site Systems

Primary Contractor(s) Name(s): Millstone Weber

Erosion and Sediment Control Contractor(s) Name(s): Site Systems

Seed and Mulch Contractor(s) Name(s): Site Systems

Total Anticipated Disturbed Acreage for the Project: 27.8 AC

Primary Receiving Water(s) for the Project: Unnamed tributaries to Missouri River

Location of Public Notification Sign(s) (Note: Must be Viewable to the Public):

Job Trailer @ west commuter lot VMP/Fairgrounds

Describe the BMP selection (if it differs from design), implementation and maintenance plan for the project (i.e., Why were selected BMPs chosen over those designed, what is the intended sequence and timing for installing BMPs and how will BMP deficiencies be addressed?): going to follow the design plan.

Additional Project Notes:

RE Signature: John Lewis

Date: 3/1/16

WPCM Signature: Brad Brackley



Date: 3/1/16







404/401 Permit Required/Obtained for this Project? ☐ Yes ☒ No

Attach a map or maps depicting the project location/alignment with enough detail to show waters of the United States within 1 mile of the project.

Appendix K

DISCLAIMER
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

PERMANENT EROSION CONTROL LEGEND
 ROCK LINING
 ROCK DITCH LINER - TYPE 3 & TYPE 4

TEMPORARY EROSION CONTROL LEGEND
 SILT FENCE
 ROCK DITCH CHECK
 SEDIMENT TRAP
 CUT
 FILL
 FLOW ARROW

SCALE
0 50 100 150

PRIMARY RECEIVING WATERS:
UNNAMED TRIBUTARY TO MISSOURI RIVER

1295

BEGIN SILT FENCE
STA. 1299+12
STA. 1299+12.78
BEGIN PROJECT
PT STA 1299+69.74 BK =
1299+67.74 AH

1300

REMOVED
2/7/17

END SILT FENCE
STA. 1302+14

1305

BEGIN SILT FENCE
STA. 15+80

REMOVED
2/7/17

01-70

REMOVED ON 12/8/16

20

MATCHLINE - STA 1308+00
SEE SHEET 2 OF 12

UPDATED: ~~4/13/16~~ 5/10/16 8/4/16 1/25/17
~~5/19/16~~ 9/16/16 2/7/17
~~6/15/16~~ 9/29/16
~~6/28/16~~ 10/17/16
~~7/5/16~~ 11/2/16
~~7/19/16~~ 11/5/16
12/21/16
1/4/17

 = SILT FENCE
 = ROCK CHECK
 = SILT SOCK



DATE PREPARED
10/19/2015

ROUTE I-70 STATE MO
DISTRICT SL SHEET NO. 189

COUNTY
ST. CHARLES

JOB NO.
J612326

CONTRACT ID.

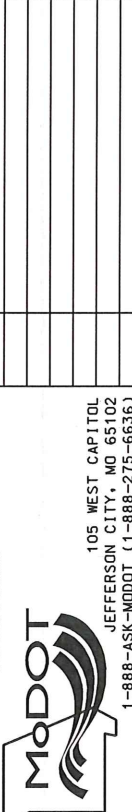
PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

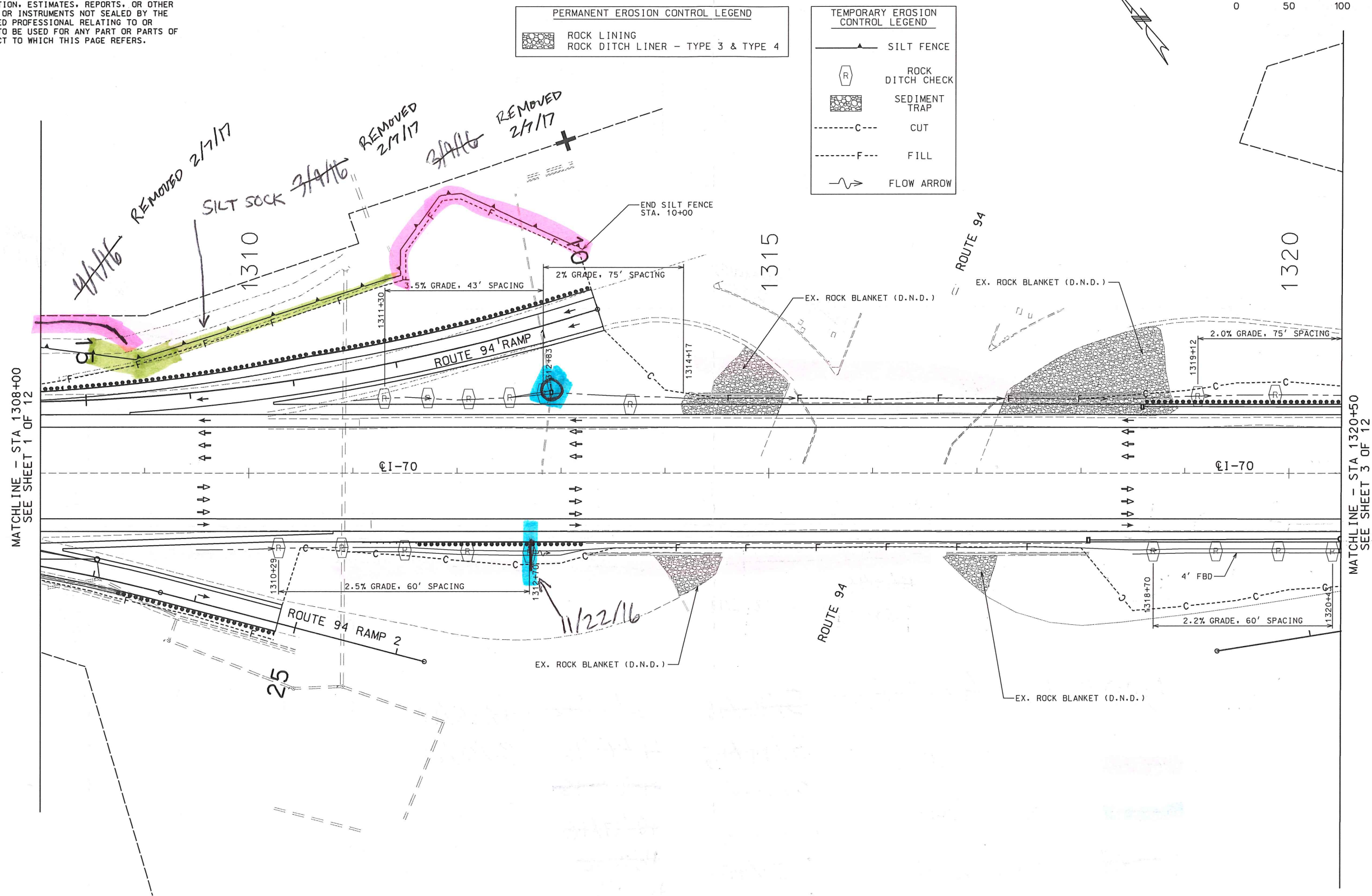
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



EROSION CONTROL -
FIFTH STREET -
ROUTE 94
SHEET 1 OF 12



Appendix K

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


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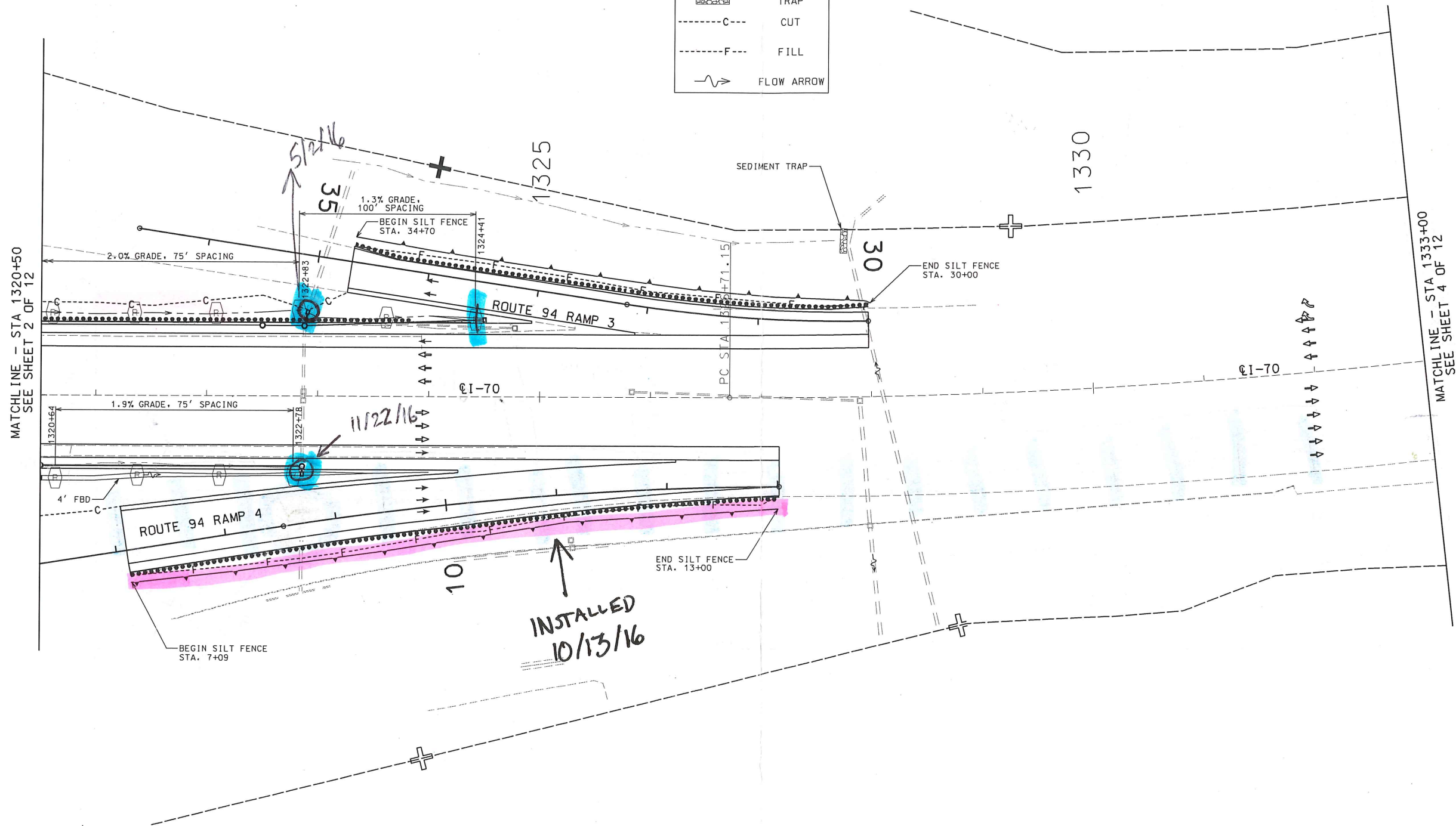
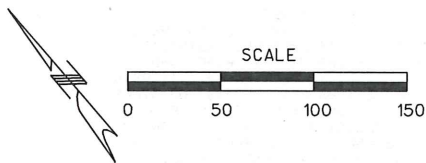
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PERMANENT EROSION CONTROL LEGEND

 ROCK LINING
 ROCK DITCH LINER - TYPE 3 & TYPE 4

TEMPORARY EROSION CONTROL LEGEND

 SILT FENCE
 ROCK DITCH CHECK
 SEDIMENT TRAP
 CUT
 FILL
 FLOW ARROW



STATE OF MISSOURI
JARRITT D. JARRETT
PROFESSIONAL ENGINEER
10/19/2015

DATE PREPARED
10/19/2015

ROUTE I-70 STATE MO
DISTRICT SL SHEET NO. 191

COUNTY
ST. CHARLES

JOB NO.
J612326

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION







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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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4015 18th St., Ste. 400 • Saint Louis, MO 63103-2206
314-531-4321 • FAX 314-531-6066 • www.horner-shiffrein.com
Professional Engineering
Expiration Date: December 31, 2016

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PERMANENT EROSION CONTROL LEGEND
 ROCK LINING
 ROCK DITCH LINER - TYPE 3 & TYPE 4

TEMPORARY EROSION CONTROL LEGEND
 SILT FENCE
 ROCK DITCH CHECK
 SEDIMENT TRAP
 CUT
 FILL
 FLOW ARROW

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DATE PREPARED
11/16/2015

ROUTE I-70 STATE MO

DISTRICT SL SHEET NO. 192

COUNTY ST. CHARLES

JOB NO. J612326

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

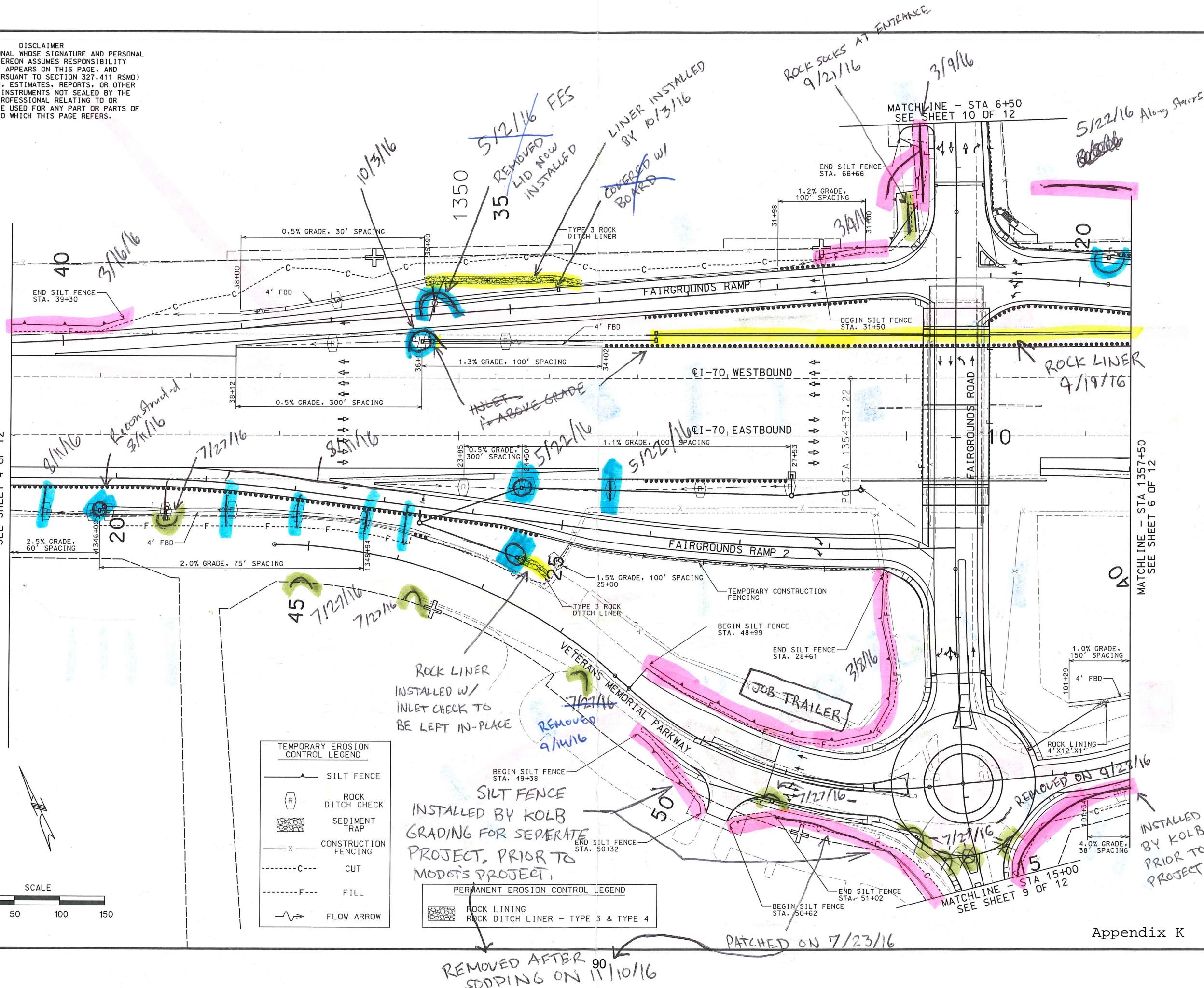
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 401 S. 18th St., Ste. 400 • Saint Louis, MO 63103-2296
 314-531-4321 • FAX 314-531-0066 • www.hornorshifrin.com
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 Expiration Date: December 31, 2016

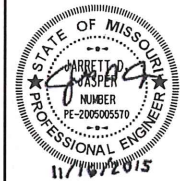
EROSION CONTROL
 FIFTH STREET -
 ROUTE 94
 SHEET 4 OF 12

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MATCHLINE - STA 1345+00
SEE SHEET 4 OF 12



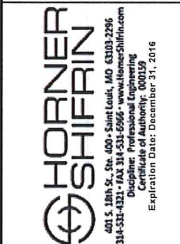
Appendix K



DATE PREPARED
11/16/2015
ROUTE I-70 STATE MO
DISTRICT SL SHEET NO. 193
COUNTY ST. CHARLES
JOB NO. J612326
CONTRACT ID.
PROJECT NO.
BRIDGE NO.


DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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







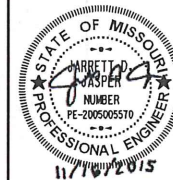
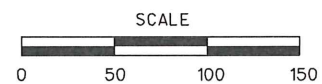
EROSION CONTROL
FIFTH STREET -
ROUTE 94
SHEET 5 OF 12

PERMANENT EROSION CONTROL LEGEND

	ROCK LINING
	ROCK DITCH LINER - TYPE 3 & TYPE 4

TEMPORARY EROSION CONTROL LEGEND

	SILT FENCE
	ROCK DITCH CHECK
	SEDIMENT TRAP
	CUT
	FILL
	FLOW ARROW



ROUTE	STATE
I-70	MO

DISTRICT	SHEET NO
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COUNTY	
ST	CHARLE

JOB NO.
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CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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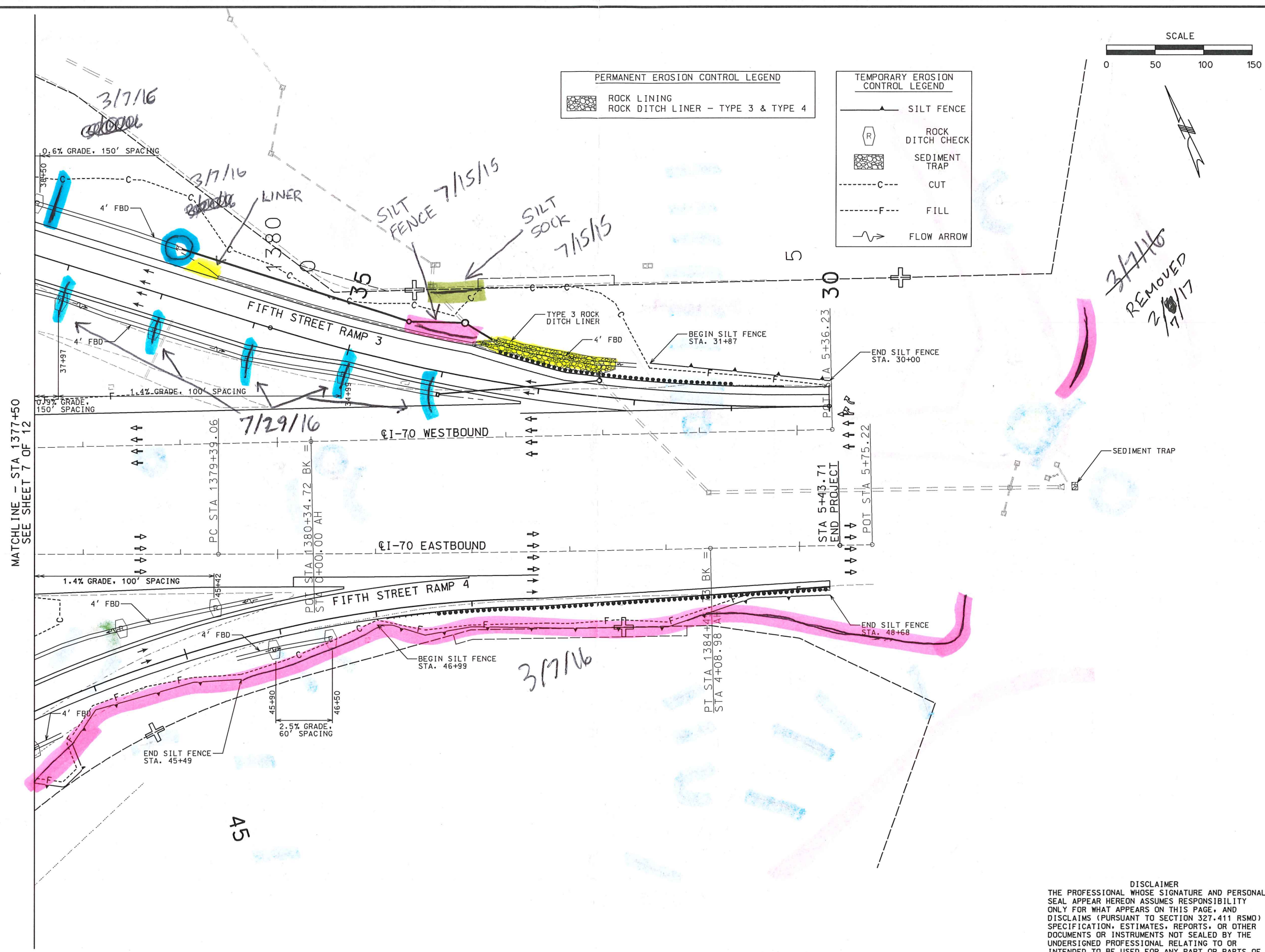
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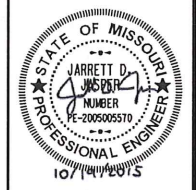
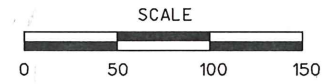
Appendix K

INSTALLED BY ALBERICI
FOR SSM PROJECT PRIOR
TO MGPET PROJECT.
ADDED ROCK ON 7/21/16



PERMANENT EROSION CONTROL LEGEND	
	ROCK LINING
	ROCK DITCH LINER - TYPE 3 & TYPE 4

TEMPORARY EROSION CONTROL LEGEND	
	SILT FENCE
	ROCK DITCH CHECK
	SEDIMENT TRAP
	CUT
	FILL
	FLOW ARROW



DATE PREPARED 10/19/2015	
ROUTE I-70	STATE MO
DISTRICT SL	SHEET NO. 196
COUNTY ST. CHARLES	
JOB NO. J612326	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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


4011, 18th St., Ste. 400, Saint Louis, MO 63103-2296
314-231-1100
Discipline: Professional Engineering
Expiration Date: December 31, 2016

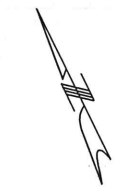
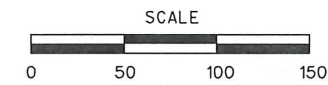
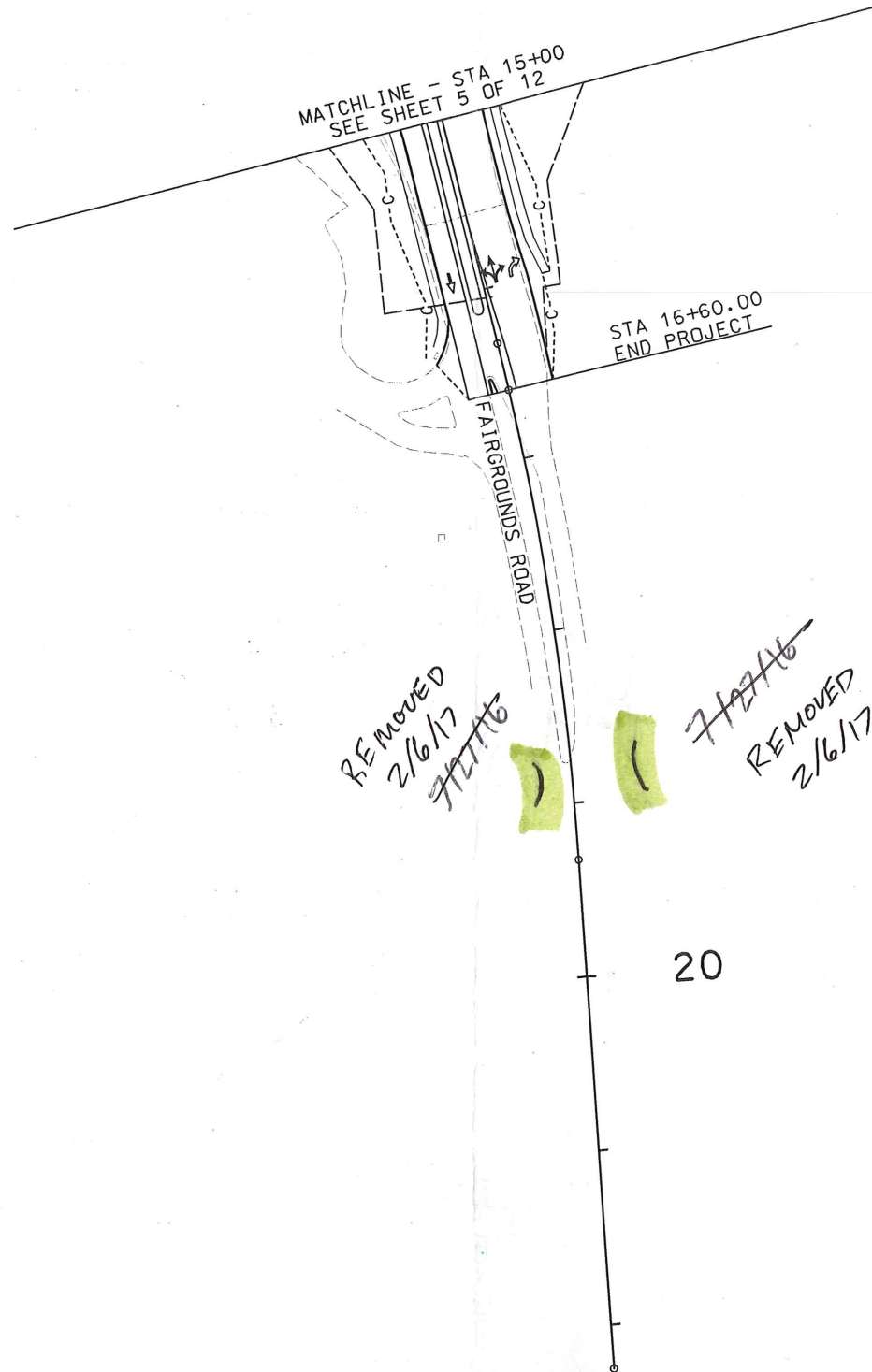
EROSION CONTROL
FIFTH STREET -
ROUTE 94
SHEET 8 OF 12

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PERMANENT EROSION CONTROL LEGEND	
	ROCK LINING
	ROCK DITCH LINER - TYPE 3 & TYPE 4

TEMPORARY EROSION CONTROL LEGEND	
	SILT FENCE
	ROCK DITCH CHECK
	SEDIMENT TRAP
	CUT
	FILL
	FLOW ARROW



DATE PREPARED
10/19/2015

ROUTE I-70 STATE MO

DISTRICT SL SHEET NO. 197

COUNTY ST. CHARLES

JOB NO. J612326

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION





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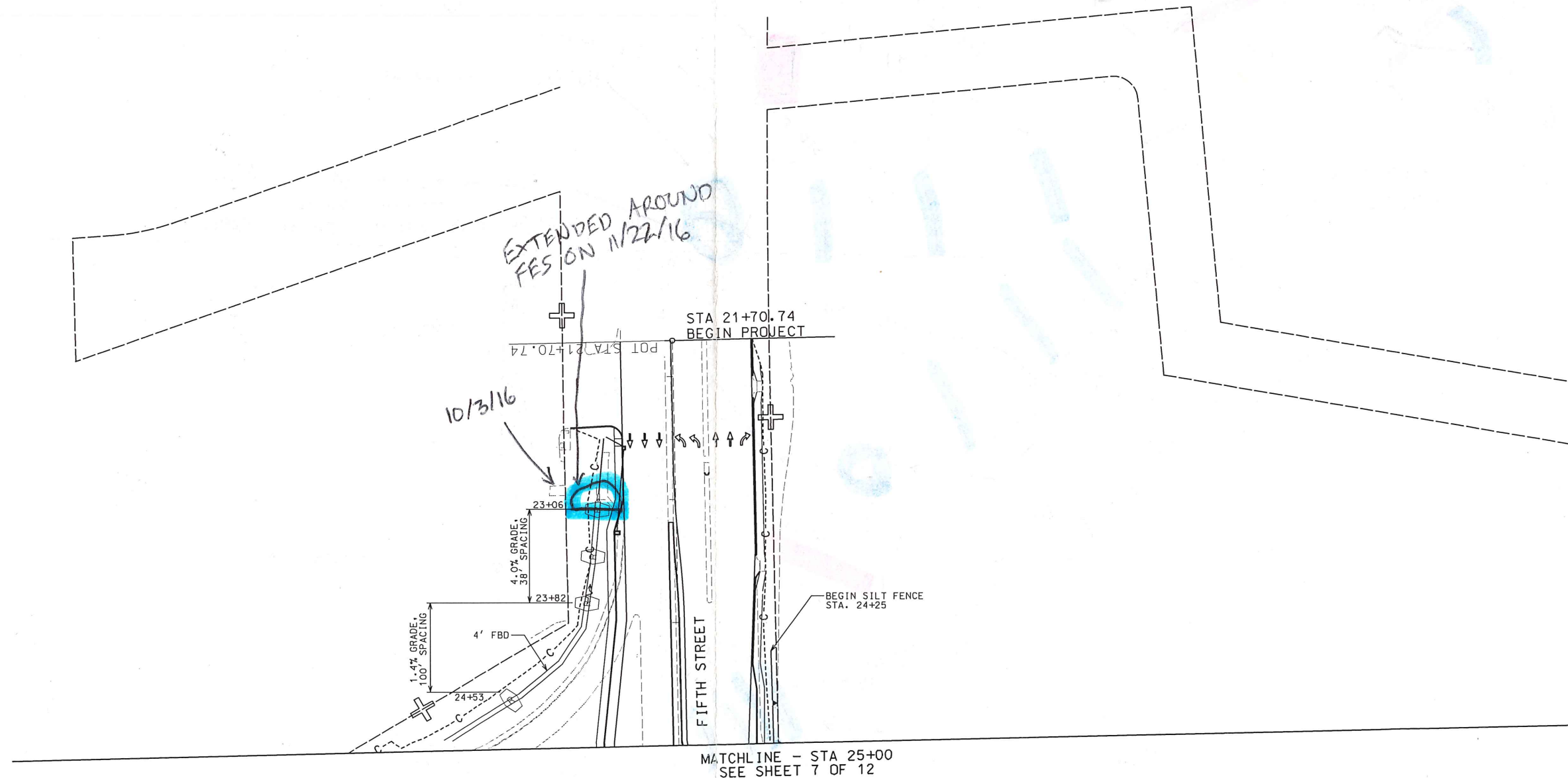
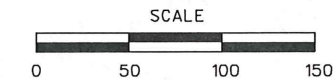
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EROSION CONTROL
FIFTH STREET -
ROUTE 94
SHEET 9 OF 12

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PERMANENT EROSION CONTROL LEGEND	
	ROCK LINING
	ROCK DITCH LINER - TYPE 3 & TYPE 4

TEMPORARY EROSION CONTROL LEGEND	
	SILT FENCE
	ROCK DITCH CHECK
	SEDIMENT TRAP
	CUT
	FILL
	FLOW ARROW



	
DATE PREPARED 10/19/2015	
ROUTE I-70	STATE MO
DISTRICT SL	SHEET NO. 200
COUNTY ST. CHARLES	
JOB NO. J612326	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DESCRIPTION	DATE
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
	
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EROSION CONTROL - FIFTH STREET - ROUTE 94 SHEET 12 OF 12	

Appendix K

Appendix L – Stormwater Preconstruction Conference Example Form

STORMWATER EROSION REQUIRED PRECONSTRUCTION CONFERENCE



Project Number:	District:	Res. Engr.:
Counties:	Route:	Location of Meeting: (The meeting MUST physically take place on-site)
Total Authorized Acreage:	Receiving Waters:	
Prime Contractor:	Date Compliance & Envir. Specialist Designated:	

Date of Grading Pre-Activity Meeting:	Date RE Assigned:
Date Water Pollution Control Manager Assigned:	
Is Project Environmentally Sensitive & Over 5 Acres?: Yes No	
Is Staff Properly Trained?: Yes No	Date Inspection Protocols in Place:
Sub-Contractors Involved :	
<i>If the prime contractor designates someone from a sub-contractor to be the Project Manager in responsible charge of grading and erosion control operations; including authorization to sign change orders and make all decisions related to grading operations, then that person shall attend this meeting.</i>	
Initial BMP installation Date(s):	
Pre-Con Meeting Date:	
Anticipated Commencement of Construction Activity Date:	
Handouts / Provide copies to share:	

U **Agenda:**

STORMWATER EROSION REQUIRED PRECONSTRUCTION CONFERENCE



Excerpt from Consent Decree – Section V: Paragraph 27: Stormwater Erosion Preconstruction Conference.

At each Project, Defendant shall conduct an on-site Stormwater Erosion Control Preconstruction Conference before the commencement of Construction Activities.

- a. For purposes of this Paragraph, the commencement of Construction Activity does not include geotechnical investigations, surveying, environmental testing, plant (vegetation) salvage, or the initial installation of BMPs that are not sediment basins, provided none of these activities involve significant soil disturbance or require a federal, state, or local permit.
- b. This preconstruction conference shall be attended in person by the Stormwater Resident Engineer(s), Environmental Construction Inspector(s); and Water Pollution Control Manager for the Project and any project manager for any Contractors expected to be involved in land disturbance or erosion control activities. Parties at the conference shall physically inspect the Project site, review the SWPPP, ensure all initial BMPs required by the SWPPP are appropriate, in place and installed correctly, and discuss issues relating to compliance with Stormwater Requirements that could arise in the course of Construction Activity at the Project. Minutes of the conference shall be recorded and kept at the Project office. Where a Project involves Construction Activity at multiple locations in a widespread area, the Preconstruction Conference need not be held at each location where Construction Activity will occur, but may be held at one or a subset of such locations.

STORMWATER EROSION REQUIRED PRECONSTRUCTION CONFERENCE



ATTENDEE SIGN-IN SHEET

Contract ID:			
Name	Organization	Title	Phone #

STORMWATER EROSION REQUIRED PRECONSTRUCTION CONFERENCE



MEETING MINUTES:

DATE OF MEETING:

Appendix M – Inspection Form from Stormwater Database



**MISSOURI DEPARTMENT OF TRANSPORTATION
LAND DISTURBANCE INSPECTION RECORD**

Project Number: J6I2423		District: SL	
Route: 141		County(s): ST LOUIS	
Location: Route 141 and I-44			
Inspection ID:	4898	Inspection Type:	Weekly
Inspector Certified Date:	10/10/2016 - chambj1	RE Certified Date:	10/10/2016 - morgac1
WPCM Certified Date:	10/12/2016 - wpcmpace01		
Inspector:	CHAMBERS, JEFFREY		
Inspection Date:	10/10/2016	Date Entered:	10/10/2016
Inspection Acres Disturbed:	4		

Land Disturbance Inspection Checklist

Current and updated SWPPP/site map on site when the erosion & sediment control inspector is on site and a copy given to the contractor?	Yes
Permit public notification sign(s) posted and visible to the public?	Yes
Are all erosion and sediment control BMPs properly installed, maintained, functioning as intended according to the SWPPP and depicted on the site map? If ?No?, explain each deficiency below.	Yes
Are BMPs in place to protect streams, wetlands and other environmentally sensitive areas from pollutants? If not, describe each deficiency.	Yes
Is trackout controlled at project entrance/exit points? If not, describe each deficiency.	Yes
Are active stormwater inlets susceptible to receiving sediment properly protected? If not, describe each deficiency.	Yes
Are Dewatering operations taking place on the project?	No
Does the project have a dewatering plan? (Required by permit if dewatering operations occurring.)	N/A
Are dewatering operations effectively removing pollutants from the water?	N/A
Are litter, construction debris, fuels, lubricants and other construction chemicals controlled? If not, describe each deficiency.	Yes
Have all temporary BMPs that are no longer necessary been removed and removal depicted on the site map?	N/A
Have all outfalls been observed for evidence of erosion and/or sediment deposition? If not, provide an explanation of which outfalls were observed and why others were not. Document the condition of the outfalls and if any corrective actions and/or additional BMPs are needed.	Yes
After observing the receiving stream(s) for 50 feet downstream of the outfall(s), was outfall protection adequate?	Yes

General Inspection Questions

Describe areas where land disturbance activities have temporarily or permanently ceased. (Excluding weather shutdowns) Describe how these areas have been or will be stabilized.
Provide a brief description of the current project status with regard to erosion and sediment control and the effectiveness of BMPs.

Inspection Attachments





Appendix N – Inspection Protocol

MoDOT Consent Decree



Inspection Protocol

August 2015

Consent Decree - Inspection Process

For any project that MoDOT engages in and includes land disturbance activities of greater than one acre the requirements of the Consent Decree shall be followed. For these projects MoDOT shall assign at least one trained inspector to perform inspections as required by the National Pollutant Discharge Elimination System (NPDES) stormwater permit. The permit requirements specify that inspections shall take place at least once per seven calendar days. In addition, if rainfall or snow melt causes stormwater runoff to occur onsite, inspections must occur within 48 hours after the rain event has ceased. If the runoff event ceases during a non-work day, such as a weekend or holiday, then the inspector has 72 hours to perform a site inspection of the Best Management Practices (BMPs).

Each inspection performed by MoDOT's trained inspector will answer all of the questions on the standard MoDOT Land Disturbance Inspection Checklist. The standard checklist is intended to be a comprehensive guide for the inspector to ensure all BMPs and other pollution control measures are installed and maintained within the requirements established in the NPDES permit and the Stormwater Pollution Prevention Plan (SWPPP). The inspector will perform this visual site inspection for evidence of erosion or sediment deposition throughout the project limits where any disturbance has occurred and where BMPs have been installed. All receiving streams shall be inspected 50 feet downstream of the outfall when practicable.

Upon completion of every inspection MoDOT's inspector conducting the inspection shall enter the report into the MoDOT Stormwater Database (Database). Each inspector should strive to enter the report into the Database as quickly as possible. Up to twenty-four hours to enter the electronic report will be allowed when wireless internet is available. In instances where wireless internet is not provided up to forty-eight hours will be permitted from when the inspection was performed to when it is entered into the online database.

All questions on the Inspection Checklist must be answered by the inspector before the Database will allow the inspector to certify the inspection report. If any deficiencies are found in the inspection process these should be clearly entered into the database individually. Detailed information about the deficiency should include but is not limited to: a detailed description of the deficiency, the location of the deficient item, actions needed to correct the noted stormwater deficiency, the dates actions will be taken to make the required correction deficiencies from a prior inspection were uncorrected and the reason it was uncorrected and whether proposed actions will require any changes to the site map/ SWPPP. Each item will remain in the database until corrective measures have been taken. Once the item is addressed the inspector shall indicate the date of the correction. Any changes required to the site map should also be made at this time. Inspections are not considered completed until the inspector certifies the report.

Consent Decree – Inspection Review and Approval Process

After MoDOT's trained inspector enters and certifies an inspection report it will simultaneously be available to both the MoDOT's Resident Engineer (RE) and the Contractor's Water Pollution Control Manager (WPCM). The RE and WPCM have up to three days to review the inspection report and certify

the report individually in MoDOT's Stormwater Database. After both MoDOT's RE and the Contractor's WPCM have individually reviewed and approved the report, the inspection process will be completed.

MoDOT Oversight of Environmentally Sensitive Areas

For any project that disturbs more than five acres of soil and is located in an environmentally sensitive area an independent oversight inspection shall occur. These inspections will be identified by MoDOT's Stormwater Compliance Coordinator. The Stormwater Compliance Coordinator will assign the respective trained oversight inspectors from MoDOT who will perform this inspection. This oversight inspection will follow the same process as weekly or post-run off inspections. The unannounced oversight inspection shall occur at least once every 90 days where there is active construction on the site. Upon completion of the site inspection the inspection report shall be completed by the oversight inspector. The inspector should strive to enter the report into the database as quickly as possible. Up to 24 hours to enter the electronic report will be allowed when wireless internet is available. In instances where wireless internet is not provided up to 48 hours will be permitted from when the inspection was performed to when it was entered into the online database.

Environmentally sensitive areas are any area that would be directly impacted by stormwater discharges from the project and that federally designed critical habitat for any federally listed threatened or endangered species or that contains an immediate downstream water body that is listed as impaired for sediment by the Missouri Department of Natural Resources (MDNR) under Section 303(d) of the Clean Water Act.

Stipulated Penalties – The Consent Decree Rules

Penalty	Penalty Amount	MoDOT	Contractor
#1. MoDOT shall assign a statewide stormwater compliance specialist	\$1000 initial violation \$750 every 14 days	Central Office Design will assign this person	N/A
#2. MoDOT shall assign one environmental inspector per project. The Contractor shall assign one WPCM per project	\$750 initial violation \$750 every 14 days (for each role)	Every project needs one inspector and a backup assigned	Every project needs one WPCM and a backup assigned
#3. All Individuals shall have up-to-date MoDOT stormwater training certification	\$750 initial violation \$750 every 14 days (for each role)	All REs, inspectors, employees with stop work authority or that work in SWPPP development must attend	WPCM and Contractor's on-site Project Manager. Any subcontractor with full project manager authority shall also attend training

Stipulated Penalties (Continued) - Summary

Penalty	Penalty Amount	MoDOT	Contractor
#4. Pre-activity stormwater meeting shall be held prior to any land disturbance	\$750 initial violation \$250 every day after	RE and Inspector must attend	WPCM must attend.
#5. MoDOT shall create and distribute an Inspection Protocol	\$750 per day	Central Office Design will create, update and distribute this document	N/A
#6. Inspections shall be performed per MoDOT's Permit and SWPPP	\$500 Initial Violation \$100 Every day after	Project inspector needs to perform weekly and post – runoff inspections	N/A
#7. Inspections shall be documented per MoDOT's Permit and SWPPP	\$100 per day	Inspection shall be entered 24 or 48 hours after performed, based on availability of wireless connection	N/A
#8. MoDOT's Resident Engineer and the Contractor's WPCM shall review and approve the inspection reports within 3 days	\$250 per day	RE shall review and approve each inspection report within 3 days	WPCM shall review and approve each inspection report within 3 days
#9. MoDOT oversight inspections shall be performed when required	\$1500 Initial Violation \$250 per day	Stormwater Compliance Specialist will assign. MoDOT Oversight will perform	WPCM will follow the same process used for weekly inspections
#10. Failure to comply with any NPDES permit or SWPPP requirement	\$1000 first 10 days \$2500 days 11-20 \$3500 days 21 +	Ensure project complies with the permit and SWPPP	Ensure project complies with the permit and SWPPP
#11. Failure to correct deficiency within 7 day per the SWPPP and Permit	\$1000 first 10 days \$2500 days 11-20 \$3500 days 21 +	Ensure deficiencies are all corrected with 7 days	Ensure deficiencies are all corrected with 7 days
#12. Enter deficiencies into database	\$200 per deficiency per day	Inspectors shall enter all deficiencies individually into the database	N/A
#13 Review Compliance	\$200 per day	REs review deficiencies for their projects every 7 days. Stormwater Compliance Coordinator reviews deficiencies for entire state every 14 day	N/A
#14. Submit a Spill Report	\$750 every late report \$750 every 14 days	Contact MoDOT Environmental if spill occurs on project	Contact MoDOT Environmental if spill occurs on project
#15. Any violation of the Consent Decree not listed in penalty #1 - #14	\$100 per day	Ensure Consent Decree is followed.	Ensure Consent Decree is followed

Appendix O – Notification of Inspection Protocol to Certified Individuals

MoDOT Consent Decree - Message (HTML)

File Message

Ignore Delete Reply Reply All Forward More PAGE III Team E-mail Done To Manager Rules OneNote Mark Unread Categorize Follow Up Translate Find Related Select Zoom Show Sidebar

You responded on Tuesday, August 18, 2015 8:52 PM.

From: ERIC T KOPINSKI Sent

To: ERIC T KOPINSKI

Cc: 'dave.fennewald@apac.com'; 'drlazier@gershenson.com'; 'carl.pendergrass@apac.com'; 'ed.evers@apac.com'; 'Roberts.Locsch@apac.com'; 'nchilton@rlpersons.com'; 'Justins@robertsoncontractors.com'; 'jsztuvo@hntb.com'; 'adam.goins@emerysapp.com'; 'f.wilson@ica-onramp.com'; 'sgerstner@gerstnerelectric.com'; 'Ryan.Conrath (RConrath@gerstnerelectric.com)'; 'tdiedmann@gerstnerelectric.com'; 'bschaniel@shelmholt@gerstnerelectric.com'; 'hal.brenton@emerysapp.com'; 'chris.howser@apac.com'; 'jason.rod@emerysapp.com'; 'blake.hastedde@emerysapp.com'; 'brian.sapp@emerysapp.com'; 'troy.hunt@emerysapp.com'; 'chris.landwehr@emerysapp.com'; 'jwiehmangontes@gmail.com'; 'shannon@lehmanconstructionllc.com'; 'kenny@lehmanconstructionllc.com'; 'ryan@lehmanconstructionllc.com'; 'jburger.1023@gmail.com'; 'andrew.owen@emerysapp.com'

Subject: MoDOT Consent Decree

Message Final Consent Decree.pdf (3 MB) Inspection Protocol.pdf (307 KB)

All,

Per the requirements set forth in the Consent Decree you are to be provided a copy of the Consent Decree as well as the Inspection Protocol. Both of these documents are attached to this email. You can also find them on MoDOT's website: www.modot.gov/ld

If you have any questions please do not hesitate to contact me.

Thanks,

Eric Kopinski
Stormwater Compliance Coordinator
573-751-2790

Retention Policy: Default 3 Year move to Recover Deleted Items (3 years) Expires: 8/17/2018

Click on a photo to see social network updates and email messages from this person.

Connect to social networks to show profile photos and activity updates of your colleagues in Outlook. Click here to add networks.

ERIC T KOPINSKI ERIC T KOPINSKI 'dave.fennewald@apac.com' 'drlazier@gershenson.com' 'carl.pendergrass@apac.com' 'ed.evers@apac.com' 'Roberts.Locsch@apac.com' 'nchilton@rlpersons.com'

Appendix P – Statewide Environmentally Sensitive Oversight Example Map

**Land Disturbance
Consent Decree
Environmentally
Sensitive Areas
(Updated Dec. 2016)**

Legend

- Niangua_darter_fedcriticalhab
- FCH_NianguaDarter_June2015
- FCH_TumblingCreekCavesnail_June2015
- FCH_HineEmeraldDragonfly_June2015
- NeoMucket_Rabbitsfoot_Nov2014
- FCH_Rabbitsfoot_June2015
- PCH_Neoshomucket_June2015
- Sediment2016_303d

Appendix P


115

Map Created:
Dec. 2016 (VH)

Federal Critical Habitat

- Niangua_darter_fedcriticalhab
- FCH_NianguaDarter_June2015
- FCH_TumblingCreekCavesnail_June2015
- FCH_HineEmeraldDragonfly_June2015
- FCH_Rabbitsfoot_June2015
- PCH_NeoshoMucket_June2015
- Sediment2014_303d

HED_FenBuffers
NeoMucket_Rabbitsfoot_Nov2014



Appendix Q – Regional Environmentally Sensitive Oversight Example Map

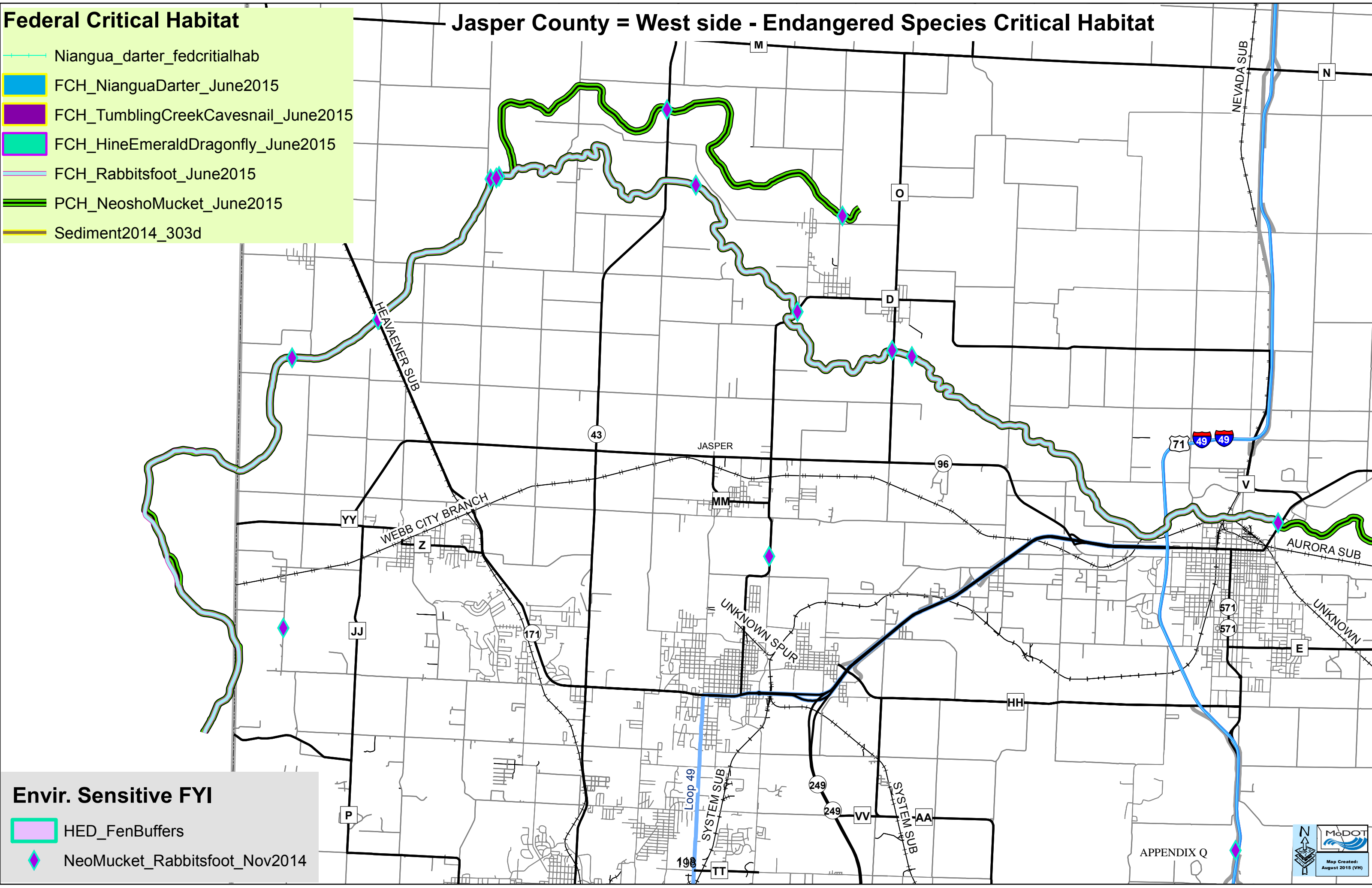
Federal Critical Habitat

- Niangua_darter_fedcriticalhab
- FCH_NianguaDarter_June2015
- FCH_TumblingCreekCavesnail_June2015
- FCH_HineEmeraldDragonfly_June2015
- FCH_Rabbitsfoot_June2015
- PCH_Neoshomucket_June2015
- Sediment2014_303d

Jasper County = West side - Endangered Species Critical Habitat

Envir. Sensitive FYI

- HED_FenBuffers
- NeoMucket_Rabbitsfoot_Nov2014



Appendix R – Environmental Review Process (RES) Form

Request for Environmental Services

Project Information

Stage:	<input type="text"/>	Previous RES(s):	No RES Selected		
Job Number (w/o 'J'):	<input type="text"/>	District:	<input type="text"/>	County:	<input type="text"/>
TIP Number:	<input type="text"/>	Rte/Street:	<input type="text"/>		
Letting Date:	<input type="text"/>	PS&E Due Date:	<input type="text"/>		
Location:	<input type="text"/>				
TMS Project Description - termini (no stations):	<input type="text"/>				
Describe RES project improvements in full detail:	<input type="text"/>				

These users will receive a notification when Environmental Services completes the current stage, the person who created this form as well as the person who submits it will also receive notification.

Project Manager:	<input type="text"/>	TP Designer:	<input type="text"/>
District Contact:	<input type="text"/>	District Contact:	<input type="text"/>
Date Desired:	03/11/2016	Submit Date:	Unsubmitted
Request Env. and Historic Preservation Core Team Members?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="text"/>		
Program Year:			
Preliminary Engineering:	N/A <input type="text"/>	Right of Way:	N/A <input type="text"/>
Construction:	N/A <input type="text"/>		
Explain the purpose of the request:	<input type="text"/>		
Changes to project since last RES submittal? If yes, explain:	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="text"/>		
<input type="checkbox"/> Design/Build <input type="checkbox"/> Alternate Technical Concepts			

☐ Project breakout from previous or larger project? *If checked explain:*

Acres - From all sources (e.g. donated from public or private entities): Click if Acres Unknown

Additional R/W: Temp Easement: Permanent Easement:

Is there a possibility that MoDOT will purchase any uneconomic remnants? ☒ Unknown ☐ Yes ☐ No

Land Disturbance:

Will project involve 1 acre but less than 5 acres of land disturbance: ☐ Yes ☒ No ☐ Unknown

Will project involve 5 acres or more of land disturbance: ☐ Yes ☒ No ☐ Unknown

Acres of Tree Clearing:

Number of Displacements(do not include partial takes that do not displace):

Residential: ☐ Yes ☒ No Commercial: ☐ Yes ☒ No

No. of People: Residences: No. of Employees: Businesses:

Average Daily Traffic:

ADT Construction Year: ADT Design Year:

Bicycle / Pedestrian Consideration

Pedestrian facilities considered:

Bicycle facilities considered:

National Flood Insurance Program (NFIP) and Hydraulic Design Data:

☐ Project is in a FEMA-identified zone "subject to 100-year flooding": *If so, what zone?:*

Project is in a FEMA-defined "floodway"

☐ Project involves land purchased through FEMA Hazard Mitigation Grant Program (Flood buyout property) *If checked, give details:*

☐ Is highway improvement located within 2 miles of an existing airport?

Known Concerns: Provide information you have about these resources that you have observed in the area.

Parkland:

Wetland/404 Permit:

Stormwater/Water
Quality:

Farmland:

Threatened &
Endangered Species:

Migratory Birds: Are there
birds nesting on the
structure?

☒ Unknown ☐ Yes ☐ No

Hazardous Waste:

Cultural Resources:

District Comments:

Project Attachments:

****NOTE:** If making updates to an attachment, please use a different filename than the original.

Upload Attachments: Attachments will be uploaded when you click the Save button Attachments:

Browse...

Required Information to be attached for each RES stage:

- **Loc/Concp.:** Location map (county map) & topographic map or aerial photo showing project limits – pre-plan sheets or other preliminary maps showing alternatives, if available
- **Prel. Plan:** Prel. Plan sheets
- **R/W:** R/W Plan sheets
- **Final Design:** Final Plans [Location map (county map) & topographic map or aerial photo showing project limits if this is first RES submittal]

Appendix S – Non-Compliance Occurrences for 2016

Non-Compliance Occurrences for 2016

Stipulated Penalty Violation						
District	Contract ID	Route	Stipulated Penalty Violated	Amount	Dates	Total
SW	150821-G01	13	Stipulated Penalty 7 - Failure to Document inspection reports in accordance with NPDES SW Permit, SWPPP, or Inspection Protocol as set forth in paragraphs 29-30.	\$100 per day report is late until next report is made.	With wireless availability shown: inspection report date 9/14/16 with report certification date of 9/16/16	\$100
NW	160122-A01	36	Stipulated Penalty 7 - Failure to Document inspection reports in accordance with NPDES SW Permit, SWPPP, or Inspection Protocol as set forth in paragraphs 29-30.	\$100 per day report is late until next report is made.	Without wireless availability shown: inspection report date 11/23/16 with a certification date of 11/26/16	\$100
SW	MT0515RTTT	TT	Stipulated Penalty 6 - Failure to conduct inspection reports in accordance with NPDES SW Permit, SWPPP, or Inspection Protocol as set forth in paragraphs 29-30.	\$100 per day report is late until next report is made.	Weekly inspections missed 6/7/16 through 6/29/16, 6/15/16 through 6/29/16, and 8/23/16 through 9/6/16	\$2,700
Total Anticipated Violation						Amount: \$2,900

Appendix T – Missouri Department of Natural Resources Letter of Warning

RECEIVED OCT 20 2016



Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

RECEIVED OCT 20 2016

October 18, 2016

Greg Horn, District Engineer
MODOT St. Louis District
1590 Woodlake Drive
Chesterfield, MO 63017

LETTER OF WARNING RESPONSE REQUIRED

Dear Mr. Horn:

An inspection was conducted by Missouri Department of Natural Resources staff pursuant to Missouri Clean Water Law on July 15, 2016 as described in the enclosed report. The enclosed report is being issued with a Letter of Warning (LOW), for the violations identified.

Violations include:

- Failure to adequately maintain and install Best Management Practices
- Failure to adequately conduct and record weekly and after rainfall site inspections

Please refer to the enclosed report for details on findings and required actions. **A written response documenting actions taken to correct the violations is required by the date specified in the report.**

Failure to address the required actions will result in the issuance of a Notice of Violation. If you have any questions or would like to schedule a time to meet with department staff to discuss compliance requirements, please contact Paul Morris, Martha Cruse, or myself by mail at the Missouri Department of Natural Resources, St. Louis Regional Office, 7545 South Lindbergh Blvd., Suite 210, St. Louis, Missouri 63125; by phone at (314) 416-2960; or by email at martha.cruse@dnr.mo.gov.

Sincerely,

ST LOUIS REGIONAL OFFICE

A handwritten signature in cursive script, reading "Dorothy E. Franklin".

Dorothy E. Franklin
Regional Director

DF/mec/mc

c: Mike Castro, Construction and Materials Engineer, MODOT St. Louis District
Gayle Unruh, Environmental & Historic Preservation Manager, MODOT Central Office
Brian Williams, Storm Water Compliance Coordinator, MODOT Central Office
Eric Schroeter, State Design Engineer, MODOT Central Office

Enclosures: Report of Inspection



Appendix T

CONFIDENTIAL - SECURITY INFORMATION

Appendix T

**Missouri Department of Natural Resources
St. Louis Regional Office/Water Protection Program
Report of Inspection
Highway 94 and Fifth Street Improvements
Hwy 94 and Fifth Street/St. Charles/St. Charles County
#MOR10007
October 18, 2016**

Introduction

Pursuant to Section 644.026.1 of the Missouri Clean Water Law, I, Martha Cruse of the Missouri Department of Natural Resources' St Louis Regional Office, conducted a routine compliance inspection of the Highway 94 and Fifth Street Improvements project in St. Charles County, Missouri, on July 15, 2016. Mr. Michael Spanberger, Construction Inspector, participated in the inspection. This inspection was conducted to determine the facility's compliance with Missouri State Operating Permit #MOR10007, the Missouri Clean Water Commission Regulations, and the Missouri Clean Water Law. This report presents the findings and observations made during the compliance inspection.

Facility Description and History

I reviewed the files for the Missouri Department of Transportation (MoDOT) land disturbance permit prior to the inspection, including the Permit Conditions of Missouri State Operating Permit #MOR10007, to familiarize myself with the requirements specific to this facility.

Missouri State Operating Permit #MOR10007 was last issued on May 31, 2012, and expires on May 30, 2017. This permit sets forth effluent limitations, monitoring requirements, and permit conditions, both standard and specific, that the permittee is to follow.

The legal description of the Highway 94 and Fifth Street Improvements is located in the Landgrant 03280, Landgrant 03138, and Landgrant 00150 in St. Charles County. The receiving stream for this facility is a tributary to Missouri River. This project is being conducted in order to improve the ramps for the Highway 70 and Fifth Street intersection. Some corrective work was also done for the on ramp for Highway 94. The majority of the area extended between Fifth Street and Fairgrounds Road along Highway 70. Approximately 17 acres have been disturbed, and at the time of the inspection, approximately 12 acres were in the process of being disturbed.

No previous inspections of this site have been conducted.

Discussion of Inspection and Observations

The inspection was conducted during normal business hours. I provided prior notification of the inspection to ensure timely access to the site. Upon arrival at the facility, I met with Mr. Michael Spanberger, Construction Inspector, and the purpose and scope of the inspection were outlined. Mr. Spanberger granted permission to access the site and accompanied me throughout the tour of the facility.

Report of Inspection
October 18, 2016
MoDOT
Page 2 of 7

I began the inspection by meeting with Mr. Spanberger. I explained to him that the inspection was being conducted as a part of a concern received by Missouri Department of Natural Resources. I explained that the concern alleged sediment was flowing off-site and into tributary to the Missouri River. I said that I would like to conduct a full site inspection and review the site inspection records and Stormwater Pollution Prevention Plan (SWPPP). We began the inspection by observing the best management practices around the site. Mr. Spanberger explained that there was one area in particular where the site had experienced a significant amount of problems. He requested that I make recommendations about how they might control sediment running off in this area.

The majority of the improvements for the project had been completed and was stabilized. The remainder of the disturbed area that was not stabilized was contained by keeping it at a lower grade than the pavement and by placing rock check dams around inlets (Photo #1 and #2). There were some areas where sediment was running off into an adjacent parking lot and the street. In one of these areas, Mr. Spanberger explained that the city had also been conducting work alongside the road, but that they had not contained it well, and that the cause of the erosion was from their land disturbance activities. I did observe that some sediment fence had been placed where the disturbed area was level with the street (Photo #3). I did notice one area where sediment had not reached the storm drain, but the disturbed area was on grade with the road, thereby enabling sediment to reach the storm drain (Photo #4, #5 and #6). Rock checks had been placed around the inlet, but some sediment had still accumulated around the inlet. I advised that some best management practices be installed around the disturbed areas where sediment might run off and onto the roadway.

We continued east along Veterans Memorial Parkway, south of Highway 70 towards the concern area. Some excavation was being conducted in an area that lacked adequate BMPs; however, I later observed the excavation had been completed at the end of my inspection. The area also flowed behind a cement wall, preventing significant sediment from entering the roadway. I also observed sediment in a drainage way on the southern side of Veterans Memorial Parkway (Photo #7). We parked at the corner of 5th Street and Veterans Memorial Parkway. This area had been partially stabilized with gravel, but some of the steeper slopes were not stabilized. A large drainage way with rock check dams flowed through the area, but there was no stabilization along the steep slopes (Photo #8). I also noted that there was an area where concrete had been washed out, but was not properly contained (Photo #9). The concrete washout had mixed with some rainwater and discharged to some storm drains (Photo #10). However, the majority of this water was contained with some smaller rock check dams (Photo #11). I advised that concrete washout be contained and not allowed to discharge to areas where it could enter waters of the state. He explained that the contractors would normally wash out on the gravel areas, which were being used for stabilization and were properly contained, but would speak with the contractors.

We then viewed the main area of concern (Photo #12). Significant sediment had entered a paved drainage way to a tributary to the Missouri River, and although there were rock check dams along the drainage way, they did not fully prevent sediment from leaving the site (Photo #13) (**See Letter of Warning #1**). He explained that the majority of the disturbed areas on the site currently drained to this drainage way and that they were regularly cleaning out sediment in this drainage way. I noticed, however, that sediment was bypassing the rock check dams during periods of high flow due to the presence of sediment deposits around rock check dams (Photo #14). The depth of the sediment within the rock check dams was between five and eight inches deep (Photo #15). We then attempted to view the area where the drainage way flowed into the tributary to the Missouri River, but the area was not accessible from public right-of-way. We did observe the tributary, but no significant changes and bottom deposits or water clarity was observed (Photo #16 and #17).

I requested to review the remaining best management practices and disturbed areas. The majority of the improvements had been completed or stabilized. The area around the Highway 70 and Fifth Street intersection had been stabilized with permanent vegetation, though some best management practices were still located in these areas (Photo #18 through #24). The majority of the unstabilized area of the site was below the curb and stabilized with gravel, preventing the sediment from washing over public roads (Photo #25 and #26). A large area in the southwestern corner of Fifth Street and Highway 70, however, was still being graded (Photo #27 and #28). This area did not have any best management practices or stabilization to prevent significance of erosion or sediment from entering the drainage way. I advised that some type of BMPs or stabilization methods be used to prevent sediment from entering the drainage way, if possible. Mr. Spanberger explained to me that the site changed on a daily basis and that they were unable to install erosion prevention methods due to the ongoing land disturbance activities. I did observe grading vehicles actively working on this portion of the site.

The project area continued westward along the northern side Highway 70. Mr. Spanberger explained that other areas not being actively disturbed would be stabilized with seed and mulch within the week. The majority of the remainder of the site was covered with gravel rock and permanent vegetation, and rock checks were located around inlets in these areas (Photo #29 and #30). Mr. Spanberger pointed out a previous problem area, where sediment fence had been breached along the slope (Photo #31, #32, and #33). He explained that MoDOT had cleaned the off-site sediment, reinstalled the sediment fence, and stabilized the area with vegetation. Wattles were still located around some of the area inlets, and no additional areas of concern were noted. The next major area of ongoing disturbance was along Fairgrounds Road bridge over Highway 70 (Photo #34, #35, and #36). Sediment fence had been installed in a portion of the disturbed area, but no BMPs were located where excavation was taking place. The area was below grade, and there was not a significant potential for stormwater to discharge, but I advised Mr. Spanberger to ensure that BMPs were installed if necessary. The remainder of the area was stabilized with gravel rock, but I did observe various areas where sediment was located around storm water inlets (Photo #37, #38, and #39).

Report of Inspection
October 18, 2016
MoDOT
Page 4 of 7

I then reviewed the Stormwater Pollution Prevention Plan (SWPPP) and weekly site inspections. The SWPPP was the MoDOT general SWPPP, but the maps were specific to the site (Photo #40, #41, and #42). The maps had been regularly updated with changes to the best management practices and were mostly reflective of the site conditions during my inspection. I requested to see the site inspections, but Mr. Spanberger requested that I might view them online from their online program. He explained to me that site inspections were automatically generated and stored through an online database. I explained that I did not think I had access to the database, but I would check. I requested that if I did not have access the database, that the site inspections be provided to me as soon as possible via email or mail.

Upon returning to the office, it was determined that I did not have access to the database, and the site inspections were provided to me on July 18, 2016. The site inspections documented compliance with the required inspection frequencies for weekly and after rainfall events. The inspection reports contained the inspector name, date, condition of BMPs, deficiencies in BMPs, when and what corrective actions were taken, and explained what areas had been stabilized. The site inspection reports also contained frequency, duration, and size of rainfall events at the site location. Some photos were included with the inspection reports. (see **Attachment #3 – MoDOT Inspection Report Photos**)

However, the site inspection reports dated July 8, 2016, July 11, 2016, and July 14, 2016 documented certain BMPs as being corrected prior to my inspection, when during my site inspection it was determined that the respective BMPs had not been corrected. The timeline is as follows:

- July 8, 2016 MoDOT inspection report documented:
 - Site received 1.10" of rain in a six hour period
 - Rock check dams (see **Attachment #3 – MoDOT Inspection Report Photos**) filled with sediment and needing repair
 - Significant erosion along the slopes of the off ramp for Fifth Street (see **Attachment #3 – MoDOT Inspection Report Photos**)
 - Repairs to the deficient BMPs were completed on July 12, 2016 and July 13, 2016
- July 11, 2016 MoDOT inspection report documented:
 - Site received approximately 0.25" of rain within 15 minutes
 - The same deficiencies as in the July 8, 2016 report
 - Repairs to the deficient BMPs were completed on July 12, 2016 and July 13, 2016
- July 14, 2016 MoDOT inspection report documented:
 - Site received 1.0" of rain within a forty five minute period
 - No deficiencies with the BMPs on site and no corrective actions were necessary

Appendix T

- July 15, 2016 MoDOT inspection report documented:
 - Site received 0.5" of rain within an hour
 - Some of the BMP deficiencies identified in the report on July 8, 2016 and July 11, 2016 had not been corrected, included the rock check dams (see Photo #12), the Fifth Street on ramp (see Photo #18), and an inlet near the construction trailer (see Photo #1)
- July 15, 2016 MoDNR inspection – No significant difference was observed between the photos in the MoDOT inspection reports dated July 8, 2016, July 11, 2016, July 15, 2016, and the photos taken during the MoDNR inspection (**See Letter of Warning #2**)

The email with the inspection reports dated July 18, 2016 also explained that additional BMPs would be installed or repaired and the areas of concern during the site inspection would be addressed. Additional emails on July 18, 2016 and July 21, 2016 contained additional photos and information about what actions had been taken to address the deficiencies and areas of concern during the inspection. Photos with the email dated July 21, 2016 showed that sediment had been mostly cleaned between the areas of concern and rock added along the drainage way.

Sampling and Monitoring

I took the appropriate sampling materials were taken on the inspection, including a copy of the Missouri Department of Natural Resources' Standard Operating Procedures for Sampling. Instruments for field monitoring were taken on the inspection that are capable of testing pH, temperature, conductivity, and dissolved oxygen. Equipment was calibrated and/or compared to standards in accordance with the St. Louis Regional Office's Quality Assurance/Quality Control (QA/QC) procedures.

A significant discharge was not occurring at the time of the inspection, therefore I did not collect samples for water quality monitoring.

Compliance Determination

The facility was found to be in non-compliance with the Missouri Clean Water Law, the Clean Water Commission Regulations, and Missouri State Operating Permit #MOR100007, based upon the observations made at the time of the inspection.

Letter of Warning (LOW)

1. Failed to adequately maintain and or improve on Best Management Practices for erosion and sediment control as required by Missouri State Operating Permit #MOR10007 Requirements #1. [Section 644.076.1, RSMo, and 10 CSR 20-6.200]

Report of Inspection
October 18, 2016
MoDOT
Page 6 of 7

REQUIRED ACTION: By November 21, 2016, submit a written report, to the St Louis Regional Office, which outlines what actions have been implemented to correct the deficiencies and what actions will be taken to prevent a reoccurrence of this violation. Please include the information submitted with the emails and any additional actions taken to address sediment running off site in the drainage way southwest of the corner of Fifth Street and Memorial Veterans Parkway and information regarding concrete washout.

2. Failed to adequately conduct and record weekly and after rainfall site inspections as required by Missouri State Operating Permit #MOR10007 Requirements #13. [Section 644.076.1, RSMo, and 10 CSR 20-6.200]

REQUIRED ACTION: Site inspection reports did not accurately document the condition of Best Management Practices. The permit states: "for disturbed areas that have not been finally stabilized, all installed BMPs and other pollution control measures shall be inspected for proper installation, operation, and maintenance... any structural or maintenance problems shall be noted in an inspection report and corrected within seven calendar days of the inspection". By November 21, 2016, submit a written report, to the St. Louis Regional Office, which outlines what actions have been implemented to correct the deficiencies and what actions will be taken to prevent a reoccurrence of this violation. Include specific information on how future site inspections will ensure that all areas of the site where BMPs have failed were sufficiently corrected within one week. It is recommended that future site inspections include photos of corrected deficiencies with BMPs.

Recommendations

1. Consider adding smaller sized rock or other similar enhancements in front of the large rock at the location of the sediment basin to assist in keeping fine particles of sediment on site.
2. Ensure that areas that are not stabilized with perennial vegetation, pavement, buildings, or structure and have a potential for sediment erosion, have best management practices installed to prevent erosion of sediment.
3. Ensure the concrete truck washout is managed in accordance with the SWPPP and does not leave the property or enter waters of the state.
4. Ensure that the BMPs utilized are appropriate for the situation. Gravel rock may not adequately prevent sediment from entering waters of the state through inlets. Sediment fence and other BMPs may better protect water quality.
5. Ensure that reports with planned ongoing land disturbance projects are submitted to the St. Louis Regional Office quarterly and contain the information required in the permit.

Report of Inspection
October 18, 2016
MoDOT
Page 7 of 7

Additional Comments/Conclusion

No additional comments at this time.

Signatures

SUBMITTED BY:



Martha Cruse
Environmental Specialist
St Louis Regional Office

MEC/MC

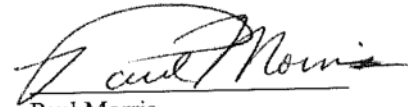
Attachments

Attachment # 1 – Photos #1 - #42

Attachment # 2 – Maps

Attachment #3 – MoDOT Inspection Report Photos

REVIEWED BY:



Paul Morris
Water Pollution Unit Chief
St Louis Regional Office

Attachment #1

MoDOT Highway 70 and Fifth Street Improvements

October 18, 2016

Page #1



Photo #: 1

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Stormwater inlet off of outer road, facing northwest. Some sediment accumulated near inlet. Rip rap located around inlet; majority of area has been covered with gravel rock.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 2

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Storm water inlets along roadway. Disturbed area is below grade of the road. No sediment migration noted. Some of the area has also been disturbed by the City.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 3

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Area where stormwater flows migrated off of the disturbed area and onto the roadway. Sediment on roadway cleaned; sediment fence installed.

Date/Time Taken: July 15, 2016

Program: WPC Unit

Initial MC

Appendix T

Attachment #1

MoDOT Highway 70 and Fifth Street Improvements

October 18, 2016

Page #2



Photo #: 4

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Continued disturbance along outer road, facing west. St Charles convention center in the background. Disturbed area is below grade of road, and curb diverts water east. No migration noted.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 5

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Sediment accumulated around stormwater inlet along outer road. Some sediment entered stormwater inlet.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 6

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Additional stormwater inlet. No sediment migration to inlet noted, but area has been stabilized.

Date/Time Taken: July 15, 2016

Program: WPC Unit

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MoDOT Highway 70 and Fifth Street Improvements

October 18, 2016

Page #3



Photo #: 7

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Sediment migrating in storm water diversion along outer road. Sediment is from multiple disturbance projects.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 8

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Drainage area on corner of fifth street and highway 70 exits, south of highway. Steep slopes, some erosion noted. Rip rap has been placed along drainage way and area outlet.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 9

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Concrete washout along project area. Washout drains into drainage ditch and is partially contained.

Date/Time Taken: July 15, 2016

Program: WPC Unit

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	<p>Photo #: 10 By: Martha Cruse Facility: MoDOT Highway 70 and Fifth Street Improvements Permit: #MOR100007 Location: Highway 70 and Fifth Street</p> <p>Description: Concrete washout being diverted to drainage ditch. Facing southeast, towards outer road and fifth street.</p> <p>Date/Time Taken: July 15, 2016 Program: WPC Unit</p>
	<p>Photo #: 11 By: Martha Cruse Facility: MoDOT Highway 70 and Fifth Street Improvements Permit: #MOR100007 Location: Highway 70 and Fifth Street</p> <p>Description: Drainage ditch that partially contains concrete washout, though area still drains to tributary to Missouri River.</p> <p>Date/Time Taken: July 15, 2016 Program: WPC Unit</p>
	<p>Photo #: 12 By: Martha Cruse Facility: MoDOT Highway 70 and Fifth Street Improvements Permit: #MOR100007 Location: Highway 70 and Fifth Street</p> <p>Description: Main drainage way to tributary to Missouri River. Rip rap along drainage way captures sediment from MoDOT land disturbance.</p> <p>Date/Time Taken: July 15, 2016 Program: WPC Unit</p>

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	<p>Photo #: 13 By: Martha Cruse Facility: MoDOT Highway 70 and Fifth Street Improvements Permit: #MOR100007 Location: Highway 70 and Fifth Street</p> <p>Description: Sediment runoff from drainage way, below rip rap. Rip rap contains the majority of the sediment.</p> <p>Date/Time Taken: July 15, 2016 Program: WPC Unit</p>
	<p>Photo #: 14 By: Martha Cruse Facility: MoDOT Highway 70 and Fifth Street Improvements Permit: #MOR100007 Location: Highway 70 and Fifth Street</p> <p>Description: Sediment along sides of drainage way, where water diverted around rip rap.</p> <p>Date/Time Taken: July 15, 2016 Program: WPC Unit</p>
	<p>Photo #: 15 By: Martha Cruse Facility: MoDOT Highway 70 and Fifth Street Improvements Permit: #MOR100007 Location: Highway 70 and Fifth Street</p> <p>Description: Some sediment coming from drainage ways along outer road (see Photo #7), but majority of sediment comes directly from MoDOT land disturbance.</p> <p>Date/Time Taken: July 15, 2016 Program: WPC Unit</p>

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	<p>Photo #: 16 By: Martha Cruse Facility: MoDOT Highway 70 and Fifth Street Improvements Permit: #MOR100007 Location: Highway 70 and Fifth Street</p> <p>Description: Tributary Missouri River. Tributary is mostly clear, significant sediment deposits not noted.</p> <p>Date/Time Taken: July 15, 2016 Program: WPC Unit</p>
	<p>Photo #: 17 By: Martha Cruse Facility: MoDOT Highway 70 and Fifth Street Improvements Permit: #MOR100007 Location: Highway 70 and Fifth Street</p> <p>Description: Up close view of tributary to Missouri River.</p> <p>Date/Time Taken: July 15, 2016 Program: WPC Unit</p>
	<p>Photo #: 18 By: Martha Cruse Facility: MoDOT Highway 70 and Fifth Street Improvements Permit: #MOR100007 Location: Highway 70 and Fifth Street</p> <p>Description: Project area at southeast corner of fifth street and highway 70. Area is to grade and partially stabilized. Some rip rap also located in main drainage way, but significant sediment runoff noted.</p> <p>Date/Time Taken: July 15, 2016 Program: WPC Unit</p>

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Photo #: 19

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Continued view of drainage way from Photo #18.

Date/Time Taken: July 15, 2016

Program: WPC Unit

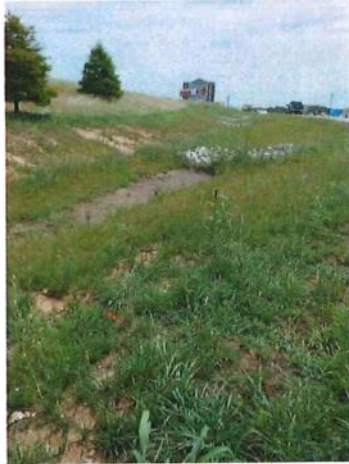


Photo #: 20

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Drainage way on northern side of highway 70. Area is mostly stabilized, no sediment migration noted.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 21

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Additional view of drainage way. No significant sediment migration. Area mostly stabilized.

Date/Time Taken: July 15, 2016

Program: WPC Unit

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Photo #: 22

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Disturbed area on northeast side of the site. Sediment migration noted. Area drains to outlet in Photo #8 and #15.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 23

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Portion of the area on the northeast side of the site has been stabilized. Facing northwest towards fifth street.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 24

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Partially stabilized portion of northeast side of the site, facing east towards Highway 70, opposite direction of Photo #23.

Date/Time Taken: July 15, 2016

Program: WPC Unit

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MoDOT Highway 70 and Fifth Street Improvements

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Photo #: 25

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Some disturbance on northwest cover of Highway 70 and Fifth street intersection. Area flows to inlet in Photo #26, then to drainage way in Photo #8 and #15.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 26

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Area collecting stormwater runoff from Photo #25. Water settles some before discharging, no other BMPs noted.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 27

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Southwest corner of intersection of Highway 70 and Fifth Street. Area drains to drainage way in Photo #15 and #8.

Date/Time Taken: July 15, 2016

Program: WPC Unit

Initial MC


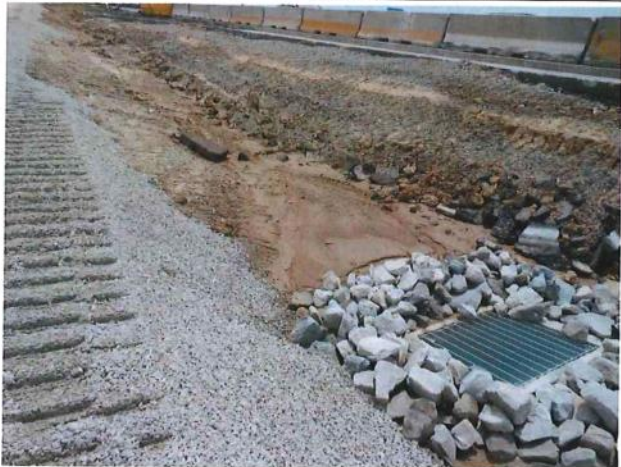
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	<p>Photo #: 28 By: Martha Cruse Facility: MoDOT Highway 70 and Fifth Street Improvements Permit: #MOR100007 Location: Highway 70 and Fifth Street</p> <p>Description: Continued, ongoing disturbance, facing west. Taken adjacent to Photo #27. Grading equipment noted working in area.</p> <p>Date/Time Taken: July 15, 2016 Program: WPC Unit</p>
	<p>Photo #: 29 By: Martha Cruse Facility: MoDOT Highway 70 and Fifth Street Improvements Permit: #MOR100007 Location: Highway 70 and Fifth Street</p> <p>Description: Continued improvements along the north side of Highway 70. Portion of area is disturbed, but majority of area is stabilized with permanent vegetation or gravel.</p> <p>Date/Time Taken: July 15, 2016 Program: WPC Unit</p>
	<p>Photo #: 30 By: Martha Cruse Facility: MoDOT Highway 70 and Fifth Street Improvements Permit: #MOR100007 Location: Highway 70 and Fifth Street</p> <p>Description: Sediment accumulated near storm inlet north of Highway 70. No sediment observed in the stormwater inlet.</p> <p>Date/Time Taken: July 15, 2016 Program: WPC Unit</p>

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MoDOT Highway 70 and Fifth Street Improvements

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Photo #: 31

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Facing northwest. Stabilized slope above mall north of Highway 70. Area was previous location of sediment runoff, no current deficiencies in BMPs or significant erosion observed.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 32

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Area where sediment previously entered storm drain from Photo #31. Area was cleaned with street sweeper and sediment removed.

Date/Time Taken: July 15, 2016

Program: WPC Unit

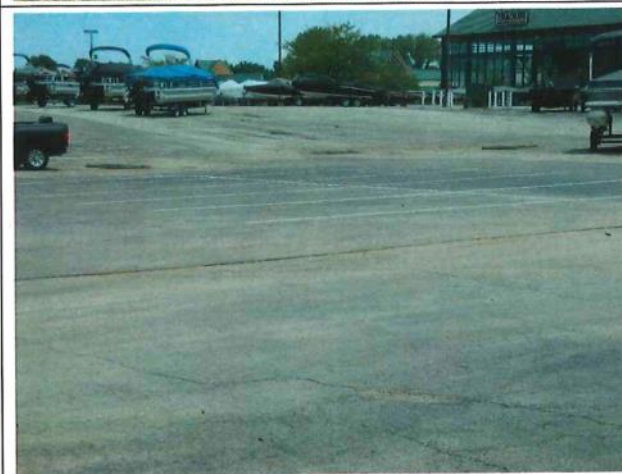


Photo #: 33

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Additional area inlets in mall area surrounded by gravel wattles. Some sediment deposition noted around inlets.

Date/Time Taken: July 15, 2016

Program: WPC Unit

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Photo #: 34

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Road improvements along Fairgrounds Road bridge, north of Highway 70, facing north. Sediment fence along some disturbed area, no sediment migration noted.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 35

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Highway and utility improvements along Fairgrounds Road bridge, facing south.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 36

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Ongoing excavation on eastern side of Fairgrounds Road bridge. Some sediment deposition alongside of road. Most of disturbed area is below grade, but can discharge off site at north end. Facing north.

Date/Time Taken: July 15, 2016

Program: WPC Unit

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Photo #: 37

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Facing west along northern side of Highway 70. Area is mostly stabilized with gravel. Some disturbed areas still exposed.

Date/Time Taken: July 15, 2016

Program: WPC Unit



Photo #: 38

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Stormwater inlet surrounded by disturbance. Some sediment accumulation noted inside inlet.

Date/Time Taken: July 15, 2016

Program: WPC Unit

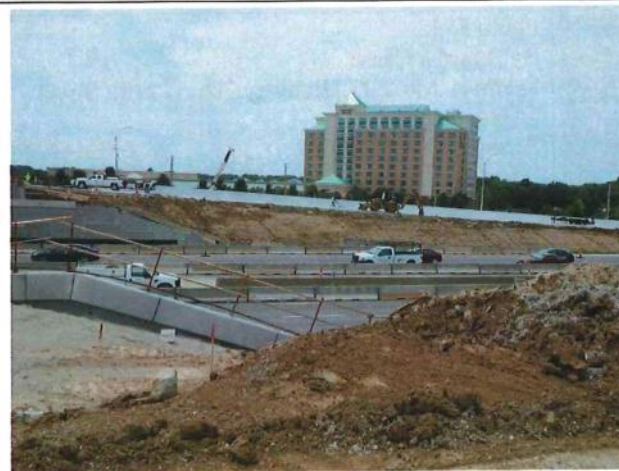


Photo #: 39

By: Martha Cruse

Facility: MoDOT Highway 70 and Fifth Street Improvements

Permit: #MOR100007

Location: Highway 70 and Fifth Street

Description: Disturbed area along western side of Fairgrounds Road bridge, on both sides of Highway 70. Disturbed area is contained with cement berms.

Date/Time Taken: July 15, 2016

Program: WPC Unit

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Photo #: 40
By: Martha Cruse
Facility: MoDOT Highway 70 and Fifth Street Improvements
Permit: #MOR100007
Location: Highway 70 and Fifth Street

Description: Statewide stormwater pollution prevention plan Table of Contents.

Date/Time Taken: July 15, 2016
Program: WPC Unit

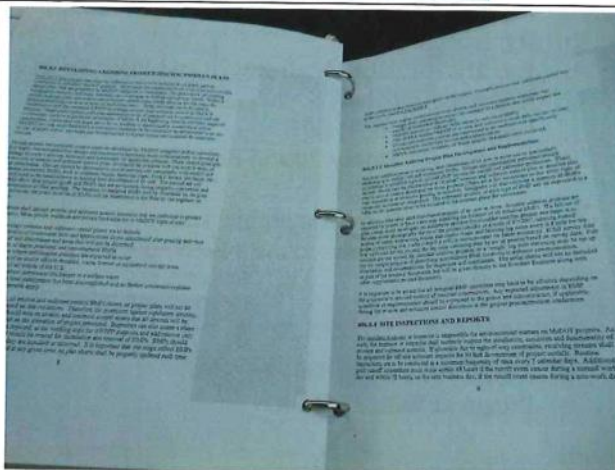


Photo #: 41
By: Martha Cruse
Facility: MoDOT Highway 70 and Fifth Street Improvements
Permit: #MOR100007
Location: Highway 70 and Fifth Street

Description: Best Management Practices specified in statewide SWPPP.

Date/Time Taken: July 15, 2016
Program: WPC Unit

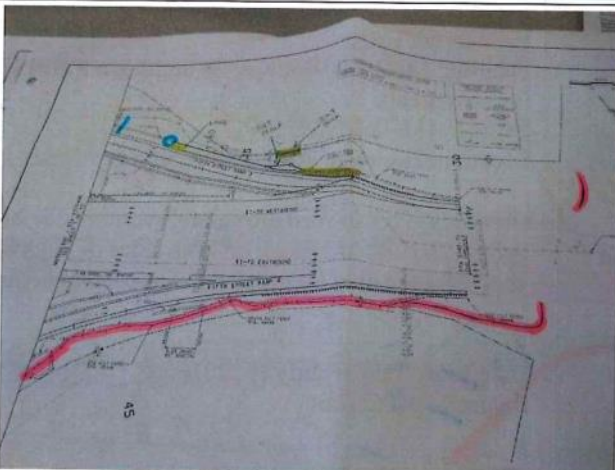


Photo #: 42
By: Martha Cruse
Facility: MoDOT Highway 70 and Fifth Street Improvements
Permit: #MOR100007
Location: Highway 70 and Fifth Street

Description: Best Management Practices installed as site conditions change on site plan.

Date/Time Taken: July 15, 2016
Program: WPC Unit

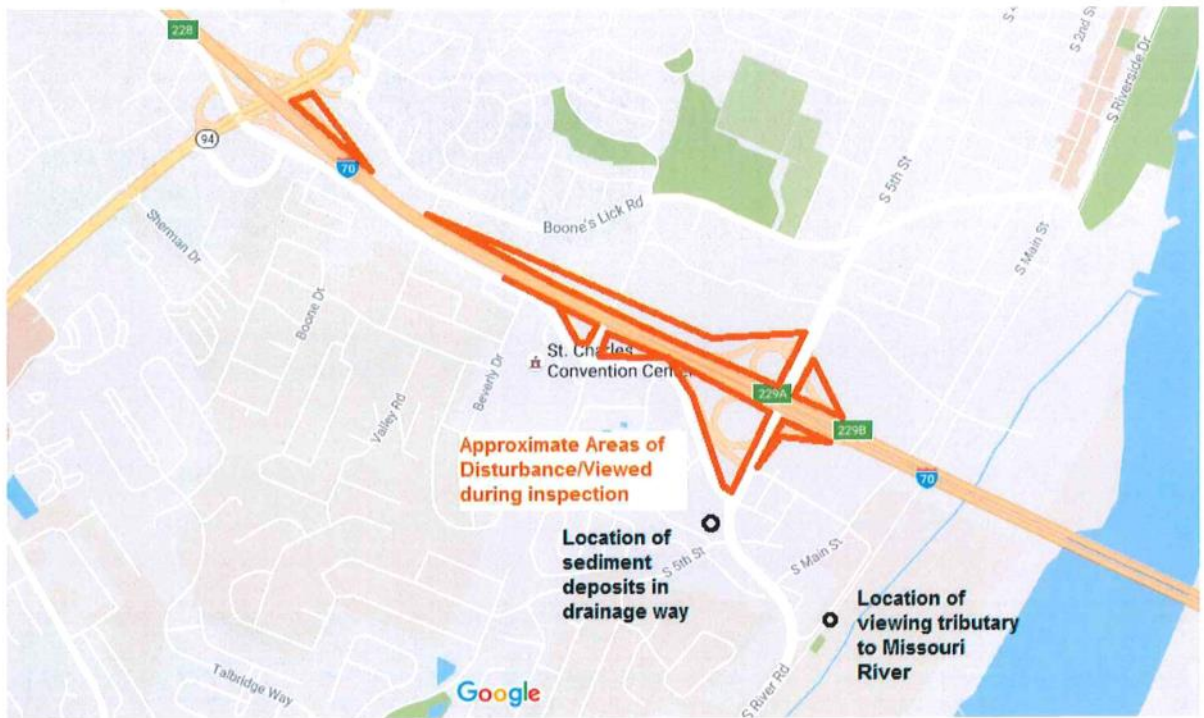
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MoDOT Highway 70 and Fifth Street Improvements

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Area Map

Attachment #3

MoDOT Highway 70 and Fifth Street Improvements

October 18, 2016

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Photo #1

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Photo #2

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Photo #4

Attachment #3

MoDOT Highway 70 and Fifth Street Improvements

October 18, 2016

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Photo #5

Appendix T

Appendix T

Appendix U – MoDOT Response to Missouri Department of Natural Resources Letter of Warning

Missouri Department of Transportation

1590 Woodlake Drive
Chesterfield, Missouri 63017-5712
314.275.1500
Fax: 573.522.6475
1.888.ASK MODOT (275.6636)

November 17, 2016

Dorothy Franklin
DNR Regional Director
7545 South Lindbergh Blvd.
Suite 210
St. Louis, MO 63125

Dear Ms. Franklin,

This letter will serve as the Missouri Department of Transportation's required response to your Letter of Warning (LOW) dated October 18, 2016 for the Missouri Department of Natural Resources' July 15, 2016 inspection on MoDOT's Route 94/Fifth Street project in St. Charles County.

The Route 94/Fifth Street project is a \$25 million major interchange reconstruction project, 95% of which was funded by the City of Saint Charles and St. Charles County. The scope of the project involves an extremely fast paced, aggressive schedule. Due to the major grading required and the limited number of outfalls, this project was viewed by MoDOT from the onset as a challenge from an erosion and sediment control perspective. In fact, MoDOT took a proactive approach and reached out to DNR's St. Louis Regional Office to review the site prior to the start of major grading operations. In early March, DNR Environmental Specialist Martha Cruse met our staff onsite to discuss what measures MoDOT and its contractors had already taken and planned to take in the upcoming months with regard to erosion control.

Between July 7 and July 15, the project area received several highly intense, short duration rain events. In MoDOT's inspection process, multiple locations and devices were called out for repairs including the rock ditch checks located in the paved ditch near the project outfall location. All the noted repairs were completed within the time frame established in MoDOT's SWPPP.

On July 15, a DNR inspector walked the entire site with a MoDOT inspector who explained what efforts were in place and what still needed to be done after the downpour the night of July 14, which was an extremely short duration, high intensity event. Pictures taken by DNR and MoDOT show BMPs to be less than half full; however, a very small amount of sediment did bypass the last BMP. As noted in DNR's draft letter, when observing the tributary there were "no significant changes and bottom deposits or water clarity was observed."

MoDOT's General Operating Permit requires the design, installation, and maintenance of BMP's to minimize discharge of pollutions into the waters of the U.S. Effluent limits are outlined to provide a tangible measurement to determine when minimal discharges are exceeded. Although the storms did not exceed that limit for the 24-hour duration, the events that occurred before the inspection were very intense. MoDOT installed BMP's in accordance with our SWPPP with our best engineering judgment. Rain events in July produced a total of 8.37 inches of rain, which is almost double the normal 4.26 inches of rain for the St. Louis area. Every effort was made to correct maintenance or structural problems as outlined in the permit.



Our mission is to provide a world-class transportation experience that delights our customers and promotes a prosperous Missouri.

www.modot.org

Below are the actions or improvements taken to address the items of concerns stated in the LOW.

Concern #1 - Failure to adequately maintain and install Best Management Practices

- a) Our contractor removed all of the sediment from the BMPs and the minimal amount which bypassed the BMP on July 18 once soil conditions improved (picture #1).
- b) The contractor repaired the existing rock ditch checks in the concrete paved ditch (picture #2).
- c) The contractor placed a 4" board across the bottom of the flared end section of the pipe at the end of the concrete flat bottom ditch (picture #3).
- d) A slotted piece of plywood and 1" clean rock was placed in front of the intake to the pipe running to the concrete paved ditch (picture #4).
- e) Rock was added to ditch check on the south side of Fifth Street ramp #4 (picture #5).
- f) An additional rock ditch check was added to the concrete paved ditch (picture #6).
- g) All three rock ditch checks were reconstructed to make dams by adding mulch waddles inside the rock ditch checks in the concrete paved ditch (picture #6).
- h) Rock liner was placed at inlet 24-2 on VMP West of Fairgrounds (picture #7).
- i) Four rock ditch checks were installed in the ditch on the north side of VMP, west of Beverly (picture #8).
- j) Rock was added to ditch check at inlet 16-1 on the North Outer Road (picture #9).
- k) Silt fence was placed around an existing rock ditch check in front of an inlet on the south side of VMP near Fifth Street.
- l) A rock ditch check was placed at flared end section 50-1 at Fifth Street Ramp #1 (picture #10).

This timely action was communicated to the DNR inspector as she requested an update once the contractor cleaned up the area after the rain the night before. Additions to the BMPs were made to help protect the area from additional significant rain events and address LOW concern #1.

Since the DNR inspection, our Stormwater Compliance Coordinator did an inspection to confirm that all actions taken at the site were above the standards of the permit. A list of supplements to the existing BMPs was provided to the contractor's project manager who halted the operation of three crews to address all items which were completed on July 29. The supplemental list included:

- a) Seeded a large area both temporarily and permanently to help stabilize areas within the project.
- b) Five additional rock ditch checks were added to the ditch between EB I-70 and VMP, west of Beverly (picture #11).
- c) Installed a sediment pit in front of the intake to the pipe running to the concrete paved ditch.
- d) A rock check was added to inlet 106-2 on EB VMP at Time Centre Drive (picture #12).
- e) Silt socks added on both sides of Time Centre Drive (picture #13).
- f) Silt fence placed at curb ramp openings (picture #14).
- g) A total of 15 additional rock socks were added to inlets along VMP (pictures # 15-17), rock socks were added to two inlets in Bass Pro's parking lot and at inlet 26-2 on Fifth Street Ramp #3 (picture #18).
- h) Silt fence was added along both sides of VMP at the Cracker Barrel entrance, silt fence added along north side of temporary VMP bypass and another row at Bass Pro's parking lot (picture #19).
- i) Additional rock checks were added to the ditches south of Fifth Street Ramp #3 and #4 and Flared End Section of pipe 11-3 (pictures #20 & 21).
- j) Rock ditch checks were enlarged on EB VMP near Fifth Street, Time Centre Drive and at Cracker Barrel (picture #22), rock checks added in ditches on south side of Fifth Street Ramp #3.
- k) Temporary seeding was placed on temporary slopes after grading stopped on the south side of the new VMP (pictures #23 and 24).

- l) Two large flat bottom rock ditches were installed and lined the top of the rock ditches with silt fence in the basin area where the out flow pipe leads to the concrete flat bottom ditch (picture #25).
- m) MoDOT directed the contractor to substituted straw mulch with Fiber Reinforced Matrix mulch on all long and steep slopes to prevent any rutting of the slopes after final grading was completed (With an additional cost of \$ 40,000 to the project).

In addition two concrete wash out pits were dug and lined with plastic on both ends of the project (pictures #26 and 27). A meeting was held with the contractor and their sub-contractors to make sure everyone understands where the wash out pits are located. All concrete trucks must wash out in these lined pits. The lined wash out pits satisfies LOW concern #1.

Currently, the majority of the project has been final graded and has been stabilized with sod or seed and mulch with significant portions of the project having established vegetation. Hopefully, the project will be completed with all work completed around or just after Thanksgiving of 2016.

The LOW concern #2 states that MoDOT “failed to adequately conduct and record weekly and after rainfall site inspections as required.” MoDOT vehemently disagrees with this statement for several reasons.

- a) In MoDOT’s view, DNR’s statement is based on opinion and not facts that the deficiency noted on the July 8 erosion report was not corrected on July 12 as indicated in MoDOT’s inspection report.
- b) Specifically, DNR’s statement above is based solely on two pictures taken of a rock ditch check, one from July 8 (photo #28) and one from July 15 (photo #29).

DNR states that the rock ditch check was never fixed after the rain event on July 7 because the July 15 picture looks like the July 8 picture. On July 12, the silt was removed from the ditch, the rock ditch check was restored and the loose rock placed back onto the rock ditch check. This deficiency correction is noted on MoDOT’s erosion control inspection provided to DNR. On July 14, no deficiencies were noted from the July 13 rain event.

On the night of July 14 there was a rain event that again damaged the rock ditch check in question. MoDOT asks that DNR look at the pictures again because after the rain event on the night of July 14, the photo shows smaller rock scattered past the rock ditch check.

- a) The picture taken the morning of July 15 shows the rock ditch check is clearly different than the one taken on July 8.
- b) The July 8 picture has all big rock scattered, no small rocks are seen in the picture and silt is evident on the left side of the concrete paved ditch.
- c) The July 15 picture has no big rock scattered about and only smaller size rock one-tenth of the size of the big rock seen in the July 8 photo.
- d) Also, the July 15 picture shows no silt on the left side of the concrete paved ditch and in the July 8 photo show there is clearly silt on the left side of the concrete paved ditch.
- e) This rock ditch check’s deficiency was documented on July 8, fixed and reported on July 12 as per MoDOT’s permit.


Attached is a detailed timeline of the rainfall events, erosion reporting and erosion control activities beginning July 7 through July 30, 2016.

Aside from MoDOT’s overall disagreement with the LOW #2 concern as stated above, MoDOT will continue to perform weekly and post run off inspections as required per the SWPPP. Deficiencies noted on the inspection record will be corrected within seven days, as required per the SWPPP. MoDOT will continue to monitor the effectiveness of the in-place BMPs, make corrections and add devices as needed.

MoDOT, being the permittee, is responsible for compliance with the General Permit and it takes that responsibility seriously. Construction operations require a sequence that is recognized by the permit, and we follow the requirements outlined by the permit to ensure compliance. We ensure temporary stabilization BMP's are in place when construction activities have ceased, we conduct our inspections as required, and we make corrections as outlined when structural or maintenance issues are identified. MoDOT has worked hard to be both proactive and responsive in its dealings concerning erosion and sediment control on this project. On behalf of MoDOT, I am requesting that you reconsider the information provided above and retract the LOW.

If you believe additional erosion control measures need to be taken above and beyond what has already been installed to date, we will implement them as well. Please contact us if you have any additional concerns or comments

Respectfully,



Gregory J. Horn, P.E.
Saint Louis District Engineer



Picture #1



Picture #2



Picture #3



Picture #4





Picture #5
Picture #6



Picture #7



Picture #8



Picture #9



Picture #10



Picture #11



Picture #12



Picture #13



Picture #14



Picture #15



Picture #16



Picture #17



Picture #18



Picture #19



Picture #20



Picture #21



Picture #22



Picture #23



Picture #24



Picture #25



Picture #26



Picture #27



Picture #28



Picture #29

7/7/16 Thursday

Rain at 9 AM. Work halted for day.

7/8/16 Friday

Post-runoff report entered. 1.1"/6 hrs. Sedimentation at the rock checks in the paved ditch, southwest of 5th & VMP, was reported as a deficiency.

7/9/16 Saturday

No relevant information.

7/10/16 Sunday

Spot storm in evening.

7/11/16 Monday

Post-runoff report entered. 0.25"/15 min.

Millstone drainage crew performing excavation in old EB loop ramp.

7/12/16 Tuesday

Spot storms in evening/night.

Sediment removal performed during day in paved ditch southwest of 5th & VMP. This corrected the deficiency from 7/8/16.

Earth excavated behind curbs at Corporate Group entrance on Fairgrounds, north of I-70, to provide runoff protection.

Millstone crew performing excavation in old WB loop ramp.

7/13/16 Wednesday

Spot shower in afternoon. Possible precipitation later in night, but nobody was on-site.

7/14/16 Thursday

Post-runoff report entered 1"/45 min.

Millstone crew performing excavation along VMP.

Rain in evening/night.

7/15/16 Friday

Martha Cruse (DNR) visited site from 11 am – 1:45 pm. The following narrative is from my DWR...

Notice was not given prior to today of an impending DNR inspection. I cancelled other plans and met with Martha Cruse (MoDNR environmental specialist, 314-416-2472) to perform an erosion control inspection following a complaint submitted to the DNR. The inspection lasted from approx. 11 am to 1:45 pm. According to the DNR, the complaint involved ditch/stream sedimentation and the concerned person said that no erosion control measures were being taken. Martha rode with me and we began the inspection at the new barrier wall on VMP near the staging area, moving in a counter-clockwise direction through the project. She ~~took~~took photos of most erosion control measures, even if they had no discernible issues.

Her significant concern was a drainage ditch SW of the 5th St/VMP intersection, across from QT and near sta 42+00 on 5th Street. We currently have two large 18+ inch ditch checks at this location. Due to this week's rain

events, these checks are withholding sediment. The sediment was stabbed to be between 4' and 8" in depth, with the highest spots being 8". A small amount of rock and sediment was noted beyond the downstream check. Photos have been taken. This has been included as a correction on today's stormwater report. These checks were recently reconstructed and sediment was removed on 7/12/16. The short duration of this week's rain events appears to have caused more sedimentation than the lower-intensity events experienced earlier in the season. We did visit the creek near the Juvenile Justice Center, near the 5th St/River Road crossing. The water was very clear and showed no signs of sediment flow.

She did mention that the silt fencing on the south side of VMP was deteriorating. I informed her that that fencing was property of the ~~the~~ City of St. Charles/Kolb Grading, as part of a separate project, and that MoDOT would discuss corrections with them. We visited all Fairgrounds and 5th Street ramps, including the North Outer Road and new VMP. We did not visit the Route 94 area.

Following the field inspection, Martha reviewed the SWPPP and erosion control map. Brandy Broeckling and I also showed her the online stormwater inspection logging system. Martha was not aware that we no longer kept paper copies of land disturbance ~~einspections~~ inspections. Martha concluded the meeting by stating that she and her boss would review her inspection and submit their concerns to MoDOT.

Post-runoff report entered. 0.5"/1 hour.

Millstone placing fill in VMP fill area and performing nearby grading.

Site System installing silt sock and silt fence on the north side of 5th Street ramp #3 and ramp #1.

Eric Kopinski recommended that I document Martha's visit on today's storm water report.

7/16/16 Saturday

No relevant information.

7/17/16 Sunday

No relevant information.

7/18/16 Monday

Millstone removed sediment from paved ditch and reconstructed rock checks.

Wooden board and clean rock also placed on upstream side of outfall to slow/regulate the outfall rate.

A wooden dam, serving as an additional check, was installed in the paved ditch.

Rock added to scoured ditch check on south side of 5th Street ramp #4.

I sent all storm water reports to the DNR. I also sent a summary of planned erosion control improvements.

Tony Gambaro also sent a summary of completed improvements.

Tony and I had a meeting with Millstone to discuss further erosion control improvements. Millstone has already dedicated a crew to erosion control installation and maintenance.

Millstone performing grading and excavation of 5th Street ramp #2.

7/19/16 Tuesday

Millstone has dedicated a crew to erosion control today.

Additional rock check added to paved ditch and remainder of sediment removed.

Waddles installed inside of the paved ditch rocks checks.

Rock liner placed at inlet 24-2 on VMP, west of Fairgrounds.

Millstone performing grading/excavation in old WB loop ramp and 5th Street ramp 2/new VMP.

7/20/16 Wednesday

Millstone has dedicated a crew to erosion control today.

Four rock checks installed in ditch on north side of VMP, west of Beverly.

Sediment removal at various inlets throughout job.
Rock added to check at inlet 16-1 on North Outer Road.
Millstone performing excavation in old WB loop ramp and placing fill for new VMP/ramp #2.
We received Eric Kopinski's erosion control recommendations today.
Heavy rain occurred in morning. Post-runoff inspection entered.

7/21/16 Thursday

Millstone has dedicated a crew to erosion control today.
Bass Pro parking lot sprayed and cleaned.
Sediment removed from various checks.
Millstone placing fill for new VMP and ramp 2. Excavating from old WB loop ramp.
Tony and I met with Millstone at the job trailer to discuss Kopinski's erosion control recommendations.
Mike Castro recommends that we place Kopinski's recommendations on a storm water report.
I entered the storm water report with the recommended corrections. See report for specific deficiencies. **All deficiencies corrected between 7/23 and 7/29.**
Tony Gambaro sent update to Martha Cruse (DNR) about the effectiveness of erosion control improvements at the paved ditch.

7/22/16 Friday

Millstone has dedicated a crew to erosion control today.
Two rock checks placed on north side of VMP, west of Beverly. Between EB I-70 and VMP.
Sediment removal at silt fencing along Bass Pro parking lot.

7/23/16 Saturday

Existing inlet on south side of VMP, near 5th Street, was wrapped with silt fencing. South of MH 40-1. It was already protected with a rock check.
Rock check placed at FES 50-1 at 5th Street ramp #1.
Five rock checks added to ditch between EB I-70 and VMP, west of Beverly.
Sediment basin dug around existing EB loop ramp outflow FES. This FES was already protected with a rock check.
Sediment removal from ditch between VMP and EB I-70, west of Beverly.
Silt fencing re-installed/repared on SW and SE quadrants of Fairgrounds roundabout.

7/26/16 Tuesday

Rock check added to inlet 106-2 on EB VMP at Time Centre Dr.
Silt sock added on both sides of Time Centre Drive to project limits. Silt fencing placed at curb ramp openings.
15 rock socks added to inlets along VMP, from the roundabout to Time Centre Dr.

7/28/16 Wednesday

Rock socks added to two inlets in Bass Pro parking lot and at inlet 26-2 on 5th Street ramp #3.
Silt fencing installed along both sides of VMP Cracker Barrel Entrance
Silt fencing installed along north side of temporary VMP bypass near SSM, and in stretch against barrier wall near Cracker Barrel entrance.
Additional silt fencing added to south side of Bass Pro parking lot, north of North Outer Road.

7/29/16 Thursday

Additional rock checks added to ditches south of both 5th Street ramp #3 and #4, and FES 11-3.
Sediment also removed from these ditches.
Rock checks enlarged in ditch on EB VMP LT, across from paved ditch near 5th Street.
Rock check added to ditch on EB VMP RT, at Time Centre Apartments driveway.
Three ditch checks added to EB VMP RT, between roundabout and Cracker Barrel entrance.

7/30/16 Friday

Finished adding rock checks to ditch on south side of 5th Street ramp #3.

Appendix V – Return to Compliance Letter from Missouri Department of Natural Resources

January 30, 2017

Greg Horn, District Engineer
MODOT St. Louis District
1590 Woodlake Drive
Chesterfield, Mo 63017

RETURN TO COMPLIANCE

Dear Mr. Horn:

An inspection was conducted by Missouri Department of Natural Resources staff pursuant to Missouri Clean Water Law on July 15, 2016 of the MoDOT 5th Street Improvements, located at the intersection of Interstate 70 and 5th Street in St. Charles, Missouri. The facility was found to be in non-compliance for failure to adequately maintain and install Best Management Practices and failure to adequately conduct and record weekly and after rainfall inspection reports. On November 21, 2016, a sufficient response was received to the required actions in the July 12, 2016 inspection report. The response detailed how Best Management Practices had been improved and would be maintained in the future. No further response is required to address the report.

The response shows that you recognize our mutual goal in providing a quality life for Missouri's citizens through environmental compliance. The department appreciates your voluntary efforts to comply with the laws of Missouri and your continued efforts to work with us to improve protection of Missouri citizens and our natural resources.

If you have any questions, please contact Martha Cruse by mail at the Missouri Department of Natural Resources, St. Louis Regional Office, 7545 South Lindbergh Blvd., Suite 210, St. Louis, Missouri 63125; by phone at (314) 416-2960; or by email at martha.cruse@dnr.mo.gov.

Sincerely,

ST. LOUIS REGIONAL OFFICE



Paul Morris
Environment Supervisor

PHM/MEC/mc

C: Brian Williams, MODOT Sediment and Erosion Control Coordination

