

MAINTENANCE PLANNING GUIDELINES		2006																																																
ACTIVITY: Drainage (R316) MAJOR & MINOR	ACTION: Channel Control																																																	
DEFINITION: The time and expenses incurred for the installation, repair and maintenance of roadway drainage ditches, structures, and all slide repairs. This includes installing and maintaining pavement drainage systems.																																																		
PURPOSE: To maintain and/or install channel control devices such as dikes, deflectors, riprap, gabion baskets, or other control measures.																																																		
SCHEDULING: As needed.	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td> </tr> <tr> <td>A</td><td>E</td><td>A</td><td>P</td><td>A</td><td>U</td><td>U</td><td>U</td><td>E</td><td>C</td><td>O</td><td>E</td> </tr> <tr> <td>N</td><td>B</td><td>R</td><td>R</td><td>Y</td><td>N</td><td>L</td><td>G</td><td>P</td><td>T</td><td>V</td><td>C</td> </tr> <tr style="background-color: black;"> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>		J	F	M	A	M	J	J	A	S	O	N	D	A	E	A	P	A	U	U	U	E	C	O	E	N	B	R	R	Y	N	L	G	P	T	V	C												
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RECOMMENDED EQUIPMENT:	RECOMMENDED PROCEDURE:																																																	
<ul style="list-style-type: none"> • Dump Trucks • Backhoe • Excavator • Loader • Dragline • Traffic Control Equipment; (See EPG 616.23 Traffic Control for Field Operations) 	<ol style="list-style-type: none"> 1. Obtain Corps of Engineers permit, as required. 2. Call Dig Rite and check for MoDOT utilities. 3. Place traffic control devices as needed. 4. Remove debris from channel. 5. Install channel control devices. 6. Clean up work area. 7. Install erosion control devices as necessary 8. Seed and mulch as necessary. 9. Remove traffic control devices. 																																																	
RECOMMENDED MATERIAL:																																																		
<ul style="list-style-type: none"> • Riprap • Gabion Baskets, Ajax, & Rock • Fill Dirt • Seed • Mulch 																																																		
SAFETY: Wear all appropriate PPE. Refer to the Safety Policies, Rules & Regulations – Employee Handbook .																																																		
OTHER CONSIDERATIONS: Requires planning well in advance to obtain Corps of Engineers permit.																																																		
REFERENCES: Missouri Standard Specifications for Highway Construction Section; 802 , 803 , 803 805 , 806 . Missouri Standard Plans 806.10 .																																																		

R316 – Channel Control



(1) Indian Creek -- Howell County Roadway Embankment Scour Upstream End



(2) Indian Creek – Upstream Full Flow Condition



(3) Indian Creek – Upstream of Triple Box Culvert at Route AM



(4) Ajax Blocks



(5) Ajax Installation with Silt Blanket



(6) Ajax Installation - Continued



(7) Completed Installation of Ajax Blocks



(8) Ajax Blocks Performing Under Full Flow Conditions



(9) Erosion under structure



(10) Preliminary Grading for Gabions