

MAINTENANCE PLANNING GUIDELINES		2006																																																
<p>ACTIVITY: Drainage (R316)</p> <p style="text-align: center;">MAJOR & MINOR</p>	<p>ACTION: Clean & Reshape Ditches <i>A. Earth Ditches</i></p>																																																	
<p>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.</p>																																																		
<p>PURPOSE: To keep the roadbed dry and maintain stability and proper drainage while keeping culvert pipes open.</p>																																																		
<p>SCHEDULING: As needed.</p>	<table border="1" style="margin: auto;"> <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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<p>RECOMMENDED EQUIPMENT:</p> <ul style="list-style-type: none"> • Motor Grader • Loader • Backhoe, Excavator, or Dragline • Dump Trucks • Broadcast Spreader • Eye Level &/or Transit • Traffic Control Equipment; reference the <i>Traffic Control for Field Operations Manual</i> 	<p>RECOMMENDED PROCEDURE:</p> <ol style="list-style-type: none"> 1. Call Dig Rite and check for MoDOT utilities. 2. Place traffic control devices as needed. 3. Shape ditch and remove material as needed. 4. Clean loose material from roadway. 5. Set up erosion control as necessary. 6. Seed and mulch as necessary. 7. Remove traffic control devices. 																																																	
<p>RECOMMENDED MATERIAL:</p> <ul style="list-style-type: none"> • Seed • Mulch • Silt Fence, Straw Bales, Rock (for Berms), Triangular Silt Dyke, Coir Fiber Logs • Sod • Erosion Control Blankets 																																																		
<p>SAFETY: Call before you dig to locate utilities (1- 800-DIG-RITE). Watch for traffic when operating equipment on the roadway. Wear all appropriate PPE. Refer to <i>Safety Policies, Rules & Regulations-Employee Handbook</i>.</p>																																																		
<p>OTHER CONSIDERATIONS: When excavating in lawn areas, adjacent property owners should be contacted prior to beginning work, if possible, to explain intent of operation.</p>																																																		
<p>REFERENCES: <i>Missouri Standards Specifications for Highway Construction</i>; Sections 802, 803, 805, 806 <i>Missouri Standard Plans</i>; 806.10</p>																																																		

R316 – Clean & Reshape Earth Ditches (A. Earth Ditches)



(1) Downstream Culvert Ditch (Silted In)



(2) Digging out Culvert Ditch



(3) Digging out Culvert Ditch



(4) Digging out Culvert Ditch



(5) Graded Culvert Ditch



(6) Mulched & Seeded Ditch – Finished Product

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<p>ACTIVITY: Drainage (R316)</p> <p style="text-align: center;">MAJOR & MINOR</p>	<p>ACTION: Clean & Reshape Ditches <i>B. Paved Ditches</i></p>																																																	
<p>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.</p>																																																		
<p>PURPOSE: To fill voids and realign settled sections of paved ditch.</p>																																																		
<p>SCHEDULING: As needed when the temperature is above freezing.</p>	<table border="1" style="margin: auto;"> <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> <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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N	B	R	R	Y	N	L	G	P	T	V	C																																							
<p>RECOMMENDED EQUIPMENT:</p> <ul style="list-style-type: none"> • Dump Trucks • Water Truck • Mudjack • Air Compressor • Pavement Drill • Traffic Control Equipment; reference the <i>Traffic Control for Field Operations Manual</i> 	<p>RECOMMENDED PROCEDURE:</p> <ol style="list-style-type: none"> 1. Call Dig Rite and check for MoDOT utilities. 2. Place traffic control devices as needed. 3. Wet paved ditch. 4. Pump and plug predrilled holes. Begin pumping at low end of section. 5. Clean work area and equipment. 6. Remove traffic control devices. 																																																	
<p>RECOMMENDED MATERIAL:</p> <ul style="list-style-type: none"> • Water • Portland Cement • Agricultural Lime 																																																		
<p>SAFETY: Call before you dig to locate utilities (1- 800-DIG-RITE). Watch for traffic when operating equipment on the roadway. Wear all appropriate PPE. Refer to <i>Safety Policies, Rules & Regulations-Employee Handbook</i>.</p>																																																		
<p>OTHER CONSIDERATIONS: Production can be increased by drilling in advance.</p>																																																		
<p>REFERENCES: <i>Missouri Standards Specifications for Highway Construction</i>; 609.10</p>																																																		

MAINTENANCE PLANNING GUIDELINES		2006																																																
ACTIVITY: Drainage (R316)	ACTION: Repair Paved Ditches & Slopes																																																	
MAJOR & MINOR																																																		
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 drainage by the repair of broken or settled sections of paved ditches, slopes and related drain basins.																																																		
SCHEDULING: Schedule when sections cannot be repaired by mudjacking or backfilling, when temperature is above freezing.	<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> <td></td><td></td><td></td><td style="background-color: black;"></td><td style="background-color: black;"></td><td style="background-color: black;"></td><td style="background-color: black;"></td><td style="background-color: black;"></td><td style="background-color: black;"></td><td style="background-color: black;"></td><td style="background-color: black;"></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"> • Compressor/Breakers • Loader or Backhoe • Backhoe Mounted Stinger • Trucks • Traffic Control Equipment; reference the <i>Traffic Control for Field Operations Manual</i> 	<ol style="list-style-type: none"> 1. Call Dig Rite and check for MoDOT utilities, if digging or earthwork is involved. 2. Place traffic control devices as needed. 3. Break settled or damaged sections, and fill and shape damaged sections with clean shotrock. 4. Pour grout mix into shotrock and shape surface. 5. Drain basins should be repaired by removing damaged sections, forming and pouring new concrete to match existing grades. 6. Remove traffic control devices. 																																																	
RECOMMENDED MATERIAL:	NOTE: Other alternative methods for repairing paved ditches and slopes are becoming available, please see attached pictures.																																																	
<ul style="list-style-type: none"> • Ready-Mix Concrete • Shotrock • Seed • Mulch • Silt Fence, Straw Bales, Rock (for Berms), Triangular Silt Dyke, Coir Fiber Logs • Sod • Erosion Control Blankets 																																																		
SAFETY: Call before you dig to locate utilities (1- 800-DIG-RITE). Watch for traffic when operating equipment on the roadway. Wear all appropriate PPE. Refer to <i>Safety Policies, Rules & Regulations-Employee Handbook</i> .																																																		
OTHER CONSIDERATIONS: N/A																																																		
REFERENCES: <i>Missouri Standards Specifications for Highway Construction</i> ; 609.10, 802, 803, 805, 806 Missouri Standard Plans; 806.10																																																		

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<p>ACTIVITY: Drainage (R316)</p> <p style="text-align: center;">MAJOR & MINOR</p>	<p>ACTION: Repair Curbing A. Concrete Curbs</p>																																																	
<p>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.</p>																																																		
<p>PURPOSE: To restore drainage by repairing concrete curbs, islands, curb and gutters, and curbed medians.</p>																																																		
<p>SCHEDULING: As needed when the air and ground temperatures are above 45°F.</p>	<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> <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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<p>RECOMMENDED EQUIPMENT:</p> <ul style="list-style-type: none"> • Trucks • Concrete Mixer or Concrete Mobile • Concrete Curb Machine • Concrete Saw • Compressor/Breaker • Water Tank • Traffic Control Equipment; reference the <i>Traffic Control for Field Operations Manual</i> 	<p>RECOMMENDED PROCEDURE:</p> <ol style="list-style-type: none"> 1. Place traffic control devices as needed. 2. Saw exterior limits of damaged section. 3. Remove damaged concrete, form, install steel, and place expansion felt at each transverse joint. 4. Pour concrete, finish, and apply curing compound. 5. When cured, remove forms, backfill, and seed. 6. Clean work area. 7. Remove traffic control devices. 																																																	
<p>RECOMMENDED MATERIAL:</p> <ul style="list-style-type: none"> • Concrete • Reinforcing Steel • Form Material • Expansion Felts • Grates • Water • Seed • Curing Compound 																																																		
<p>SAFETY: Be careful when working near traffic. Wear all appropriate PPE. Refer to <i>Safety Policies, Rules & Regulations-Employee Handbook</i>.</p>																																																		
<p>OTHER CONSIDERATIONS: N/A</p>																																																		
<p>REFERENCES: <i>Missouri Standards Specifications for Highway Construction</i>; 609.10</p>																																																		

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<p>ACTIVITY: Drainage (R316)</p> <p style="text-align: center;">MAJOR & MINOR</p>	<p>ACTION: Repair Curbing <i>B. Asphalt Curbs</i></p>																																																	
<p>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.</p>																																																		
<p>PURPOSE: To restore drainage by repairing asphalt curbs, islands, and medians.</p>																																																		
<p>SCHEDULING: As needed when the air and ground temperatures are above 60°F.</p>	<table border="1" style="margin: auto;"> <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> <td></td><td></td><td></td><td style="background-color: black;"></td><td style="background-color: black;"></td><td style="background-color: black;"></td><td style="background-color: black;"></td><td style="background-color: black;"></td><td style="background-color: black;"></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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<p>RECOMMENDED EQUIPMENT:</p> <ul style="list-style-type: none"> • Trucks • Air Compressor/Asphalt Bit • Asphalt Curb Machine • Distributor • Traffic Control Equipment; reference the <i>Traffic Control for Field Operations Manual</i> 	<p>RECOMMENDED PROCEDURE:</p> <ol style="list-style-type: none"> 1. Place traffic control devices as needed. 2. Remove damaged material, tack, repair, and compact area. 3. Backfill and seed as necessary. 4. Remove traffic control devices. 																																																	
<p>RECOMMENDED MATERIAL:</p> <ul style="list-style-type: none"> • Hot Mix • Liquid Asphalt (Tacking Grade) • Seed 																																																		
<p>SAFETY: Be careful when working near traffic. Wear all appropriate PPE. Refer to <i>Safety Policies, Rules & Regulations-Employee Handbook</i>.</p>																																																		
<p>OTHER CONSIDERATIONS: N/A</p>																																																		
<p>REFERENCES: <i>Missouri Standards Specifications for Highway Construction</i>; 609.3</p>																																																		

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<p>ACTIVITY: Drainage (R316)</p> <p style="text-align: center;">MAJOR & MINOR</p>	<p>ACTION: Repair Curbing <i>C. Drop Inlets & Storm Sewers</i></p>																																																	
<p>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.</p>																																																		
<p>PURPOSE: To restore drainage by repairing inlet grates, broken inlets, and storm sewers.</p>																																																		
<p>SCHEDULING: Loose inlet grates should be scheduled as soon as detected. Other repairs as needed when the air and ground temperatures are above 45°F.</p>	<table border="1" style="margin: auto;"> <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> <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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<p>RECOMMENDED EQUIPMENT:</p> <ul style="list-style-type: none"> • Truck • Water Tank • Compressor/Breaker • Concrete Saw • Traffic Control Equipment; reference the <i>Traffic Control for Field Operations Manual</i> 	<p>RECOMMENDED PROCEDURE:</p> <ol style="list-style-type: none"> 1. Place traffic control devices as needed. 2. Remove damaged material, form, and reset anchors. 3. Pour concrete, cure, and remove forms. 4. Replace grate. 5. Remove traffic control devices. 																																																	
<p>RECOMMENDED MATERIAL:</p> <ul style="list-style-type: none"> • Anchor Bolts • Concrete • Form Material • Water 																																																		
<p>SAFETY: Be careful when working near traffic. Wear all appropriate PPE. Refer to <i>Safety Policies, Rules & Regulations-Employee Handbook</i>.</p>																																																		
<p>OTHER CONSIDERATIONS: N/A</p>																																																		
<p>REFERENCES: <i>Missouri Standards Specifications for Highway Construction</i>; 614.10. <i>Missouri Standard Plans</i>; 614.10, 713.10</p>																																																		

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ACTIVITY: Drainage (R316)	ACTION: Channel Control																																																	
MAJOR & MINOR																																																		
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; reference the <i>Traffic Control for Field Operations Manual</i> 	<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 <i>Safety Policies, Rules & Regulations-Employee Handbook</i> .																																																		
OTHER CONSIDERATIONS: Requires planning well in advance to obtain Corps of Engineers permit.																																																		
REFERENCES: <i>Missouri Standards Specifications for Highway Construction</i> ; 802, 803, 805, 806; <i>Missouri Standard Plans</i> ; 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

MAINTENANCE PLANNING GUIDELINES		2006																																				
ACTIVITY: Drainage (R316)	ACTION: Slide Repair																																					
MAJOR & MINOR																																						
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 repair slides and to stabilize slopes.																																						
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> </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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A	E	A	P	A	U	U	U	E	C	O	E																											
N	B	R	R	Y	N	L	G	P	T	V	C																											
RECOMMENDED EQUIPMENT:	RECOMMENDED PROCEDURE:																																					
<ul style="list-style-type: none"> • Dozer • Backhoe • Loader • Trucks • Excavator • Dragline • Traffic Control Equipment; reference the <i>Traffic Control for Field Operations Manual</i> 	<ol style="list-style-type: none"> 1. Call Dig Rite and check for MoDOT utilities. 2. Place traffic control devices as needed. 3. Remove loose and unstable material. 4. Replace with recommended materials. 5. Clean work area. 6. Seed and mulch as necessary. 7. Remove traffic control devices. 																																					
RECOMMENDED MATERIAL:																																						
<ul style="list-style-type: none"> • Roadway Materials, as necessary as recommended by Construction/Materials Functional Unit • Slope Pins 																																						
SAFETY: Use caution when operating equipment on steep slopes. Wear all appropriate PPE. Refer to <i>Safety Policies, Rules & Regulations-Employee Handbook</i> .																																						
OTHER CONSIDERATIONS: May need to obtain Corps of Engineers permit if a stream or channel is below slide area.																																						
REFERENCES: REFERENCES: <i>Missouri Standards Specifications for Highway Construction</i> ; 802, 803, 805, 806; <i>Missouri Standard Plans</i> ; 806.10																																						