MAINTENANCE OF DRAINAGE FEATURES FOR SAFETY

KEVIN BOONE
MONTGOMERY COUNTY

THREE MOST IMPORTANT COMPONENTS OF ROAD BUILDING

• DRAINAGE
• DRAINAGE
• DRAINAGE
HOW DOES MONTGOMERY COUNTY ADDRESS DRAINAGE MAINTENANCE?

- RECOGNIZE THE TYPES OF MAINTENANCE THAT NEED ADDRESS
- SHOULDER MAINTENANCE
- CROSS DRAIN & DITCH MAINTENANCE
- PAVEMENT MAINTENANCE
- BRIDGE MAINTENANCE

HOW DOES MONTGOMERY COUNTY ADDRESS DRAINAGE MAINTENANCE?

- SET A TIMEFRAME FOR INSPECTIONS
- PRIORITIZE INSPECTIONS
- DOCUMENT AND SCHEDULE MAINTENANCE
HOW DOES MONTGOMERY COUNTY ADDRESS DRAINAGE MAINTENANCE?

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<tr>
<th>CREW</th>
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<th>INSPECTION TIMEFRAME</th>
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<td>SHOULDER CLIPPING</td>
<td>WINTER MONTHS/DURING STORMS</td>
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SHOULDER MAINTENANCE

WHAT HAPPENS WHEN SHOULDERS ARE NOT PROPERLY MAINTAINED PROPERLY?

- HYDROPLANING
- SKIDDING DUE TO ICE
- EROSION
- BASE SATURATION/FAILURES
SHOULDER MAINTENANCE

COMMON MAINTENANCE PRACTICES

• CLIPPING/RESHAPING EXISTING SHOULDERS
• PAVE SHOULDERS

DITCH & CROSS DRAIN MAINTENANCE

WHAT HAPPENS WHEN DITCH AND CROSS DRAINS ARE NOT MAINTAINED?

• INCREASES LIKELYHOOD OF DAMAGE AND ROADWAY FLOODING
• DITCH EROSION
• DAMAGE CAUSING UNRECOVERABLE CONDITIONS
DITCH & CROSS DRAIN MAINTENANCE

COMMON MAINTENANCE PRACTICES

• REGRADE DITCH PROFILES
• RIP RAP FOR EROSION PROTECTION
• ASPHALT EROSION FOR PROTECTION
• CONCRETE HEAD WALLS FOR EROSION PROTECTION & SHOULDER EXTENSION
• GABION BASKETS FOR EROSION PROTECTION & SHOULDER EXTENSION

PAVEMENT MAINTENANCE

COMMON CAUSES OF DRAINAGE ISSUES ASSOCIATED WITH PAVEMENT MAINTENANCE

• PROPER CROSS SLOPE
• RUTTING
PAVEMENT MAINTENANCE

COMMON MAINTENANCE PRACTICES

• RUT FILLING WITH MICRO SURFACING
• MOTORGRADER LEVELING WITH ASPHALT
• LEVELING WITH AN ASPHALT SPREADER

BRIDGE MAINTENANCE

COMMON DRAINAGE ISSUES ASSOCIATED WITH BRIDGE MAINTENANCE

• SURFACE DRAINAGE
• DEBRIS DAMAGE
• WEATHER RELATED DAMAGE
DOZIER ROAD

FEBRUARY 19TH, 2020
MARCH 21ST, 2020

Maintenance of Drainage Features for Safety
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