ROUTINE MAINTENANCE ACTIVITIES

JULY 1996
ROUTINE MAINTENANCE
ACTIVITIES

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ROUTINE MAINTENANCE ACTIVITIES

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ASPHALT REPAIR - MANUAL

MMS ACTIVITY: 411
MRP: ROADWAY, DRAINAGE

DESCRIPTION

Repair of roadway pavement depressions, edge raveling, potholes and leveling of pavement irregularities with hot or cold plant mix material by hand labor method. Other areas of asphalt repairs which are to be reported to this standard are as follows: paved shoulders, paved turnouts, edge widening, roadway ditches, under guardrail, constructing or maintaining drainage flumes, etc.

PURPOSE

To maintain a good riding pavement surface, and protect the roadway.

SCHEDULING FREQUENCY

Potholes, depressions and other irregularities are potential hazards and should be repaired as soon as possible. Repair to the roadway surface is a priority and should be scheduled as soon as possible. Other repairs may be scheduled in the Work Needs Survey.

RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Place asphalt in accordance with publications listed below.
3. Clean up work site.
4. Complete crew report before moving to new site.
5. Pick up work signs and other safety equipment.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

3. FDOT Standard Specifications for Road & Bridge Construction - Section 300 - 339.
5. BT - 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
6. BT - 07-0001 - Asphalt Pavement Repair (Self-Study).
MRP CRITERIA
Refer to Roadway element under “Flexible Pavement”:

- Potholes: No defect is greater than 0.05 m^2 (½ sq. Ft.) In area and 38 mm (1 ½”) deep. No pervious base is exposed in any hole.
- Edge Raveling: 90% of the total roadway edge is free of edge raveling with no continuous section 102 mm (4”) or wider exceeding 7.6 m (25”) in length.
- Shoving: Not to exceed a cumulative 2.3 m^2 (25 sq. ft.)
- Depressions/Bump: No measurement varies more than 13 mm (¾”) within the initial 3 m (10’) increment or plus 10 mm (3/8”) for each additional 3 m (10’)

Flexible Paved Shoulder/Turnouts

- Potholes: No defect is greater than 0.05 m^2 (½ sq. Ft.) In area and 38 mm (1 ½”) deep. No pervious base is exposed in any hole.
- Depressions/Bump: No measurement varies more than 25 mm (1”) within the initial 3.0 m (10’) increment or plus 10 mm (3/8”) for each additional 3 m (10’). (Turnouts are not rated for depression/bump).
- Edge Raveling: 75% of the total shoulder edge is free of raveling with no continuous se“ion 102 mm (4”) or wider exceeding 15.2 m (50’) in
- Miscellaneous Drainage: 90% of each structure functions as intended.

METHOD OF REPORTING
1. Report the metric tons (U. S. Tons) of asphalt placed to the nearest hundredth.
2. Use weight ticket from supplier, converted to metric tons (U. S. Tons), less any waste.
3. If weight tickets are not available, use Conversion Chart No. 1 - m (1) to calculate metric tons (U. S. Tons) from field measurement of asphalt in place.

REPORTING UNITS = metric tons (U. S. Tons)

PERSONNEL

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SMALL TOOLS

- Shovels & Tamps
- Asphalt Rakes
- Road Brooms
- Straight Edge
- Vibro-Plate Compactor
- Hydraulic Pavement Cutter
- Concrete Saw
- Metric Measuring Devices
- Work signs and safety equipment
- Personal Safety Equipment

MATERIAL

- Bituminous Liquid
- Plant Mix
- Litter Bags

EFFECTIVE DATE: July 1, 1996

APPROVED BY:
State Maintenance Engineer
**FLORIDA DEPARTMENT OF TRANSPORTATION**  
MAINTENANCE MANAGEMENT SYSTEM  
ROUTINE MAINTENANCE ACTIVITY

| ASPHALT REPAIR (MECHANICAL) | MMS ACTIVITY: 412  
MRP: ROADWAY, DRAINAGE and ROADSIDE |
|---------------------------|--------------------------|

**DESCRIPTION**  
Repairs by mechanical means of severe depressions and leveling of irregularities with hot mix material on roadway surfaces and paved shoulders. Major efforts by mechanical means to add paved turnouts, edge widening and paved aprons are to be included under this activity. Construction of (additional) cross overs, turn lanes, parking lots, etc. will be reported to Betterment (993).

**PURPOSE**  
To provide a good riding surface, and protect the roadways.

**SCHEDULING FREQUENCY**  
Severe depressions and other irregularities are potential hazards. They should be reviewed and planned for repair as determined by the work needs survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices which shall be in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Clean and prepare surface.
3. Spray bituminous tack coat.
4. Place hot mix asphalt material by mechanical means.
5. Compact asphalt material (see specifications below)
6. Place temporary pavement markings.
7. Clean up work site.
8. Complete crew report before moving to next site.
9. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

***All referenced publications shall be current edition with supplements***

1. Manual on Uniform Traffic Control Devices (MUTCD)
2. FDOT Roadway and Traffic Design Standards Indexes 513, 515 & 600 series
3. FDOT Standard Specifications for Road and Bridge Construction - section (300-339)
5. BT07-0022 - Work Zone Traffic Control for Maintenance & Utility Operations (level 3)
6. Asphalt Pavement Repair BT-07-0001
ACTIVITY No. 412

MRP CRITERIA:
Refer to MRP Roadway Element under “flexible pavement”.

- Potholes: No defect is greater than 0.05 m² (½ sq. Ft.) in area and 38 mm (1 ½”) deep. No pervious base is exposed in any hole.
- Edge Raveling: 90% of the total roadway edge is free of edge raveling with no continuous section 102 mm (4”) or wider exceeding 7.6 m (25”) in length.
- Shoving: Not to exceed a cumulative 2.3 m² (25 sq. ft.)
- Depressions/Bump: No measurement varies more than 13 mm (½”) within the initial 3 m (10’) increment or plus 10 mm (3/8”) for each additional 3 m (10’)

Flexible Paved Shoulder/Turnouts

- Potholes: No defect is greater than 0.05 m² (½ sq. Ft.) in area and 38 mm (1 ½”) deep. No pervious base is exposed in any hole.
- Depressions/Bump: No measurement varies more than 25 mm (1”) within the initial 3.0 m (10’) increment or plus 10 mm (3/8”) for each additional 3 m (10’). (Turnouts are not rated for depression/bump).
- Edge Raveling: 75% of the total shoulder edge is free of raveling with no continuous section 102 mm (4”) or wider exceeding 15.2 m (50’) in
- Miscellaneous Drainage: 90% of each structure functions as intended.

METHOD OF REPORTING
1. Report the metric tons (U. S. Tons) of asphalt placed using suppliers weight tickets to the nearest hundredth.
2. Conversion from U. S. measurements to metric may be required. See conversion chart 1 - m (1).
3. Do not report material wasted.

REPORTING UNITS = metric tons (U. S. Tons)

PERSONNEL

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<td>2561</td>
<td>Self Propelled Rubber Tired Traffic Roller</td>
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SMALL TOOLS

- Shovels
- Asphalt rakes
- Road brooms
- Straight edge
- Vibro-plate compactor
- Tamps - other basic small tools
- Hydraulic pavement cutter
- Concrete saw
- Work signs and safety equipment
- Personal safety equipment

MATERIAL

- Bituminous Liquid
- Plant Mix
- Litter Bags

EFFECTIVE DATE: July 1, 1996

APPROVED BY
State Maintenance Engineer
<table>
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<tr>
<th>BASE REPAIR</th>
<th>MMS ACTIVITY : 414</th>
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<td>MRP: ROADWAY</td>
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**DESCRIPTION**

Repair of base or subgrade failures with suitable materials under paved surfaces. Includes construction of base for additional paved turnouts, edge widening and paved aprons. Construction of base material for (additional) crossovers, turn lanes, parking lots, etc. will be reported to Betterment (993). Full depth asphalt repairs and surface repair should be reported to 411 or 412.

**PURPOSE**

To provide a good base to support the riding surface, and protect the roadways.

**SCHEDULING FREQUENCY**

As determined by the work needs survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway And Traffic Design Standards.
2. Cut pavement at repair limits.
3. Remove deteriorated pavement and base material and dispose.
4. Place new base material, compact material as specified by appropriate publications listed below.
5. Finish base material and prime as specified by appropriate publications listed below.
6. Clean up work site.
7. Complete crew report before moving to the next work site.
8. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

***All referenced publications shall be current edition with supplements***

1. Manual on Uniform Traffic Control Devices (MUTCD)
2. FDOT Roadway and Traffic Design Standards Index 514
3. FDOT Standard Specifications for Road & Bridge Construction Section 200 through 300
5. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3)
6. BT-07-0001 Asphalt Pavement Repair (Self Study)
7. A Guide to Asphalt Pavement Repair
**ACTIVITY No. 414**

**MRP CRITERIA:**

Refer to MRP roadway elements under flexible and rigid pavement.

- **Depressions:** not to exceed 13 mm (1/2") within the initial 3 m (10') increment or plus 10 mm (3/8") for each additional 3 m (10')
- **Paved Shoulders:** depression bump, not to exceed 25 mm (1") within the initial 3 m (10') or plus 10 mm (3/8") for each 3 m (10')

**METHOD OF REPORTING:**

1. Report the metric tons (U. S. Tons) of base material placed using suppliers weight tickets.
2. Converting weight tickets to metric may be required. See conversion chart no. 1 - m (1') for reporting metric tons (U. S. Tons) of material in place.
3. Report to the nearest hundredth.

**REPORTING UNITS = metric tons (U. S. Tons)**

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<td><strong>Safety and traffic control assistance as required</strong></td>
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**SMALL TOOLS**

- Hand Tamps
- Vibro-plate Compactor
- Shovels
- Hydraulic Pavement Cutters
- Work Signs And Safety Equipment
- Straight Edge
- Rake
- Personal Protective Equipment

**MATERIAL**

- Litter Bags
- Base Materials (Limerock, Sand-shell)

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY**

[Signature]
State Maintenance Engineer
# FLORIDA DEPARTMENT OF TRANSPORTATION
# MAINTENANCE MANAGEMENT SYSTEM
# ROUTINE MAINTENANCE ACTIVITY

## PRESSURE GROUTING

<table>
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<td>MRP: ROADWAY, ROADSIDE and DRAINAGE</td>
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### DESCRIPTION

Raising or leveling of concrete pavement slabs by hydraulic pressure grouting. Filling of cavities beneath concrete slabs (pavement or slope), box culverts, pipelines, etc.

### PURPOSE

Maintain roadway slabs to proper grade so as to provide a smooth riding surface for the traveling public. Maintain slope pavement by filling voids and sealing cracks. Pressure grout voids around drainage structures to restore subgrade support and seal cracks.

### SCHEDULING FREQUENCY

As determined by the work needs survey.

### RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Metric Roadway and Traffic Design Standards.
2. Proceed with grouting operations in accordance with appropriate publications listed below.
3. When all pressure grouting has been completed, clean up work site.
4. Complete crew report before moving to next work site.
5. Pick up work signs and other safety equipment.

### SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

***All referenced publications shall be current edition with supplements***

2. FDOT Specifications for Road and Bridge Construction.
3. FDOT Roadway and Traffic Design Standard Index No. 600 Series.
4. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
5. Refer to “A Guide to Slabjacking”.
ACTIVITY NO. 421

MRP CRITERIA

Refer to Roadway, Roadside and Drainage elements.

- Depressions: (roadway) no measurement varies more than 13 mm (1/2" ) (deep) within the initial 3 m (10') increment or plus 10 mm (3/8")for each additional 3 m (10')
- Slope Pavement: no voids exist under slope pavement
- Miscellaneous Drainage: 90% of each structure must function as intended.

METHOD OF REPORTING

1. Report the cubic meters (cubic feet) of grout reported to the nearest hundredth (example 3.54 m³ or 1.57 ft³).
2. One cubic foot bag of mix = 0.028 m³. See conversion chart no. 7 - m (7).

REPORTING UNITS = cubic meters (cubic feet)

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<td>1</td>
<td>3/4 Ton Pickup Crew Cab with Low Profile Utility Body</td>
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SMALL TOOLS

Two Rotary Air Hammers
Wooden Plugs
1500 Gallon Water Tank
Centrifugal Pump (less than 2")
Metric Measuring Devices
Pressure Grouting Pump and Mixer
Safety Equipment
Personal Safety Equipment

MATERIAL

Premixed Bagged Cement (Fly Ash)
Water
Litter Bags

EFFECTIVE DATE: July 1, 1996

APPROVED BY

State Maintenance Engineer
**FLORIDA DEPARTMENT OF TRANSPORTATION**  
**MAINTENANCE MANAGEMENT SYSTEM**  
**ROUTINE MAINTENANCE ACTIVITY**

| CONCRETE PAVEMENT JOINT REPAIR | MMS ACTIVITY: 423  
| MRP: ROADWAY |

**DESCRIPTION**

Clean and seal joints and cracks in concrete pavement, slope pavement etc.

**PURPOSE**

To restrict surface water from entering into the base or sub-grade material. Keep joints free of debris and non compressible material.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Remove old sealant material and clean joint walls in accordance with publications listed below.
3. Clean up work site.
4. Complete crew report before moving to the next site.
5. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES, and TRAINING RESOURCES**

***All referenced publications shall be current edition with supplements***

3. FDOT Standard Specifications for Road and Bridge Construction, Section 356 and 932.
4. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
ACTIVITY NO. 423

MRP CRITERIA
Refer to Roadway elements under "rigid pavement".
♦ Joint / Cracking: 85% of the length, transverse and longitudinal joint material appears to function as intended and 90% of the roadway slabs have no unsealed cracks wider than 3 mm (1/8")
♦ Paved Shoulder / Turnout Joint / Cracking: 75% of the joints appear to function as intended by restricting the intrusion of water and non-compressible materials. 80% of the cumulative area has no unsealed cracks greater than 19 mm (3/4").

METHOD OF REPORTING
1. Report the length, in meters (linear feet) to the nearest hundredth.
2. Use cloth tape or wheel to determine measurement

REPORTING UNITS = meters (lineal feet)

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<td>1002 1 2 Ton Flatbed (LWB)</td>
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<td>1100 1 2 Ton Crew Cab</td>
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<td>3420 1 Joint Sealant Pump</td>
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Safety and traffic control assistance as required

SMALL TOOLS
Shovels
Brooms
Mechanical Brush
Concrete Saw, 25 HP (Random Crack)
Joint Plow
Work Signs and Safety Equipment
Measuring Devices
Personal Protective Equipment

MATERIAL
Joint Sealant
Bond Breaker (Backer Rod)
Blasting Sand
Litter Bags

EFFECTIVE DATE: July 1, 1996

APPROVED BY
State Maintenance Engineer
FLORIDA DEPARTMENT OF TRANSPORTATION
MAINTENANCE MANAGEMENT SYSTEM
ROUTINE MAINTENANCE ACTIVITY

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<td>MRP: ROADSIDE</td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPTION
Clean all open joints and weep holes in concrete slope pavement. Fill all vertical joints and all open horizontal joints and cracks with sealant material.

PURPOSE
To restrict water intrusion into base and sub base.

SCHEDULING FREQUENCY
As determined by the work needs survey.

RECOMMENDED WORK SEQUENCE
1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway And Traffic Design Standards.
2. Remove old joint material with appropriate tool and clean joint walls with joint cleaner brush.
3. Install joint material according to standards before moving to the next site.
4. Clean up work site.
5. Complete crew report before moving to the next site.
6. Pick up work signs and other safety equipment.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES
***All referenced publications shall be current edition with supplements***
3. FDOT Standard Specifications for Road and Bridge Construction, Section 356 and 932.
4. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
MRP CRITERIA

Refer to Roadside element under slope pavement.

No voids exist under the slope pavement. All joints and cracking should prevent the infiltration of running water that could cause erosion of the backfill slope.

METHOD OF REPORTING

1. Report the length of joints cleaned and sealed to the nearest hundredth.
2. Use cloth tape or wheel to determine measurement.

<table>
<thead>
<tr>
<th>PERSONNEL</th>
<th>EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASS CODE</td>
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<tr>
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<tr>
<td>9740</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Safety and traffic control assistance as required

SMALL TOOLS

Joint Material
Broom
Work Signs and Cones
Mechanical Brush
Miscellaneous Hand Tools
Personal Protective Equipment
Measuring Devices

MATERIAL

Bond Breaker (Backer Rod)
Litter Bags

EFFECTIVE DATE: July 1, 1996

APPROVED BY
State Maintenance Engineer
**CONCRETE PAVEMENT SURFACE REPAIR**

**MMS ACTIVITY: 425**

**MRP: ROADWAY**

**DESCRIPTION**

Repair concrete pavement surfaces including spalls, pop-outs, approach slabs and partial slab replacement. Entire slab (or large amount) replacement should be reported as minor betterment (Activity 993) asphalt patching of concrete is to be reported to Activity 411 or 412. Not to include bridge deck repairs which will be reported to Activity 806.

**PURPOSE**

To maintain a good riding pavement surface, eliminate traffic hazards and protect the roadway pavement.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Reshape edge of hole to provide a vertical faced wall, minimum of 25 mm (1”).
3. Remove all loose material.
4. Place forms as necessary.
5. Apply epoxy or rapid cure grout per manufacturer’s recommendations.
6. Reseal joints as necessary, see specification listed below.
7. Finish patch consistent and to the level of surrounding pavement.
8. Clean up work site.
9. Complete crew report before moving to the next site.
10. Pickup work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements***

3. FDOT Standard Specifications for Road and Bridge Construction (Section 350-370, and 932).
4. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
5. BT 06-0015 Portland Cement Concrete Test and Construction (Self-Study).
**ACTIVITY NO. 425**

**MRP CRITERIA**

Refer to Roadway element under:

- **Rigid Pothole** - no defect is greater than 0.05 m² (1/2 sq. ft.) in area and 38 mm (1 1/2") deep
- **Rigid Depression / Bump** - no measurement varies more than 13 mm (1/2") within the initial 3 m (10') increments or plus 10 mm (3/8") for each additional 3 m (10') increment
- **Rigid Cracks** - 90% of roadway slabs have no unsealed cracks wider than 3 mm (1/8")
- **Joint / Cracking** - rigid paved shoulder/turnout
  - **Potholes**: same as above
  - **Depression & Bump**: no measurement varies more than 244 mm (1") within the initial 3 m (10') increment or plus 10 mm (3/8") for each additional 3 m (10') increment (turnouts not rated for depression/bump)
  - **Cracking**: 80% of the paved shoulder cumulative area has no unsealed cracks wider than 19 mm (3/4" sq. ft.)

**METHOD OF REPORTING**

1. Report the square meters (square feet) of concrete surface repaired.
2. Use the following formula; length (m) x width (m) = m², length (ft.) x width (ft.) = sq. ft.; or
3. Refer to conversion chart no. 6 - m (3).

**REPORTING UNITS** = meters squared (square feet)

<table>
<thead>
<tr>
<th>PERSONNEL</th>
<th>EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

*Safety and traffic control assistance as required.*

**SMALL TOOLS**

- Miscellaneous Power Tools
- Various Hand Tools
- Various Finishing Tools
- Wheel Barrow
- Work Signs And Other Safety Devices
- Measuring Devices
- Personal Protective Equipment

**MATERIAL**

- Epoxy or Rapid Cure Grout
- Expansion Joint Material
- Water
- Litter Bags

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY:**

State Maintenance Engineer
ROUTINE MAINTENANCE
ACTIVITIES

ROADSIDE MAINTENANCE
<table>
<thead>
<tr>
<th>MOTOR GRADER OPERATIONS</th>
<th>MMS ACTIVITY : 431</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MRP: ROADSIDE and TRAFFIC SERVICES</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

The grading of unpaved roads, the blading of pavement edges prior to edge striping and shoulders. Motor Grader work within the Maintenance Yard should not be charged to this activity.

**PURPOSE**

Maintain roadside areas and shoulders where establishment of grass is not possible or practical and maintain roadway edge lines so that they are visible.

**SCHEDULING FREQUENCY**

As determined by Work Needs Survey.

**RECOMMENDED WORK SEQUENCE:**

1. Place work zone traffic control devices in accordance with MUTCD and Series 600 of FDOT Roadway and Traffic Design Standards.
2. Grading unpaved roads and blading of roadway edges, beach areas, etc.
3. Clean up work site.
4. Complete crew report before moving to next site.
5. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES***

All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard - Index 104 & 105
3. FDOT Standard Specification for Road & Bridge Construction - Section 104
4. M 577-70 - M120-11 - Standard Maintenance Special Provision
5. BT07-022-Work Zone Traffic Control for Maintenance & Utility Operations (Level 3).
ACTIVITY NO. 431

MRP CRITERIA:

Refer to Roadside element, under: "Unpaved Shoulder":

No shoulder drop-off exceeds 76.20 mm (5") deep within 0.31 m (1') of the edge of pavement for a continuous 7.62 m (25'); No deviations across shoulder width exist greater than 127.0 mm (5") below or 50.8 mm (2") above the design template.

Refer to Traffic Services element under "striping" - 70% of each line must function as intended grass growing over the edge of lines will cause striping not to meet the desired Maintenance Conditions.

METHOD OF REPORTING:
1. Report the total length of area worked in kilometers (shoulder miles), to the nearest hundredth.
2. Refer to Conversion Chart No. 5 - m ( 4 ).

REPORTING UNITS = kilometers (shoulder miles)

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<thead>
<tr>
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<th>EQUIPMENT DESCRIPTION</th>
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<td>OMST III</td>
<td>0520</td>
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<td>3/4 Ton Pickup Truck</td>
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<td>OMST I</td>
<td>2210</td>
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<td>Motor Grader</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>2401</td>
<td></td>
<td>or Bulldozer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>or Frontend loader</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2310</td>
<td>1</td>
<td>Rubber-tired (2 cy.)</td>
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<td></td>
<td>Safety and traffic control assistance as required</td>
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</tbody>
</table>

SMALL TOOLS
- Shovels
- Measuring Devices
- Work Signs and Safety Equipment
- Personal Safety Equipment

MATERIAL
- Litter Bags

EFFECTIVE DATE: July 1, 1996

APPROVED BY: ____________________
State Maintenance Engineer
**REPAIR SHOULDERS, FRONT SLOPES & ROADSIDE DITCHES (MANUAL)**

**MMS ACTIVITY : 432**
**MRP: ROADSIDE & DRAINAGE**

**DESCRIPTION**
Repairing non-paved shoulders by adding suitable material, or by lowering high areas to include minor work on slopes, ditches and turnouts. Includes small areas mulched by hand. This activity should only be performed in situations that are not practical to be corrected by mechanical means.

**PURPOSE**
To correct low or high areas on shoulders, provide roadway drainage and protection of the pavement edge.

**SCHEDULING FREQUENCY**
As determined by Work Needs Survey

**RECOMMENDED WORK SEQUENCE**
1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Repair defective areas in accordance with applicable standards.
3. Clean up site.
4. Complete crew report before moving to next site.
5. Pick up signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

***All referenced publications shall be current edition with supplements***

5. BT-07-0022 - Work Zone Traffic Control for Maintenance & Utilities Operations (Level 3).
MRP CRITERIA:
Refer to Roadside element, under:
- "Unpaved Shoulder" - No shoulder drop-off exceeds 76.20 mm (5") deep within 0.31 m (1') of the pavement edge for a continuous 7.62 m (25'); No deviations across shoulder width exist greater than 127.0 mm (5") below or 50.8 mm (2") above the design template; No washboard areas exist having a total differential greater than 127.0 mm (5") from the low spot to the high spot.
- "Front Slope" - No ruts or washouts exist greater than 152.40 mm (6") in depth.
- Refer to Drainage element under
- "Roadside /Median Ditch" - The ditch bottom is (varies) meters or more below the (Non-Paved) outside edge of pavement and / or functions as intended.

| Rural Limited Access | 0.91 m (3') |
| Rural Arterial       | 0.91 m (3') |
| Urban Limited Access | 0.76 m (2 1/2') |
| Urban Arterial       | 0.76 m (2 1/2') |
| Median               | 0.6 m (2') |

METHOD OF REPORTING
1. Report the area of shoulders, slopes, ditches or turnouts repaired to the nearest hundredth.
2. Area of turnouts is to be included when the repair is performed as part of this activity.
3. Area used to dispose of excess material on site will not be reported.
4. Use Length (m) X Width (m) = m², ft. x ft. = sq. yds.

5. Refer to Conversion Chart No. 6 - m (6).

REPORTING UNITS = square meter (sq. yds.)

PERSONNEL

<table>
<thead>
<tr>
<th>CLASS CODE</th>
<th>NO.</th>
<th>SKILL CLASS</th>
<th>FLEET CODE</th>
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<th>EQUIPMENT DESCRIPTION</th>
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<tr>
<td>9750</td>
<td>1</td>
<td>OMST II</td>
<td>1100</td>
<td>1</td>
<td>2-Ton Crew Cab</td>
</tr>
<tr>
<td>9740</td>
<td>3</td>
<td>OMST-1</td>
<td></td>
<td></td>
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</table>

Safety and traffic control assistance as required.

SMALL TOOLS

Hand Seeder
Shovels
Measuring Devices
Various Hand Tools as Necessary
Work Signs and Safety Equipment
Personal Safety Equipment

MATERIAL

Stable Fill Material
Seed
Fertilizer
Mulch
Litter Bags

EFFECTIVE DATE: July 1, 1996

APPROVED BY

[Signature]
State Maintenance Engineer
<table>
<thead>
<tr>
<th>SODDING</th>
<th>MMS ACTIVITY: 433</th>
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<tbody>
<tr>
<td></td>
<td>MRP: ROADSIDE, DRAINAGE</td>
</tr>
<tr>
<td></td>
<td>VEGETATION and AESTHETICS</td>
</tr>
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</table>

**DESCRIPTION**

Cutting and placing sod in areas along the roadside associated with reworking non-paved shoulders, slopes, ditches, median islands, utility strips and repairing washouts.

**PURPOSE**

Establish and maintain a desirable turf to prevent soil erosion where seeding fertilizing and mulching operations have failed to provide a desireable turf.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place Work Zone Traffic Control Devices in accordance to MUTCD & 600 series of FDOT Metric Roadway and Traffic Design Standards.
2. Cut and place sod and stake as necessary.
3. Fertilize areas sodded.
4. Water down and lightly tamp sodded areas.
5. Complete crew report before moving to the next site.
6. Pickup work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

3. FDOT Standard Specifications for Road & Bridge Construction - Section 575.
5. BT-07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
MRP CRITERIA  Refer to Roadside element, under:

- "Unpaved Shoulder" - No shoulder drop-off exceeds 76.0 mm (5") deep within 0.31 m (1') of the pavement edge for a continuous 7.62 m (25'); No deviations across shoulder width exist greater than 127.0 mm (5") below or 50.8 mm (2") above the design template; No washboard areas exist having a total differential greater than 127.0 (5") from the low spot to the high spot.
- "Front Slope" - No ruts or washouts exist greater than 152.40 mm (6") in depth.
- "Roadside/Median Ditch" - The ditch bottom is (varies) meters or more below the (Non-Paved) outside edge of pavement and/or functions as intended.

| Rural Limited Access | -0.91 m (3') |
| Rural Arterial      | -0.91 m (3') |
| Urban Limited Access| -0.76 m (2 1/2') |
| Urban Arterial      | -0.76 m (2 1/2') |
| Median              | -0.6 m (2') |

METHOD OF REPORTING

1. Report the square meters (sq. yds.) of sod placed to the nearest hundredth by measuring area with an acceptable measuring device, such as a measuring wheel, tape, chain, DMI, etc.
2. Or calculate Length (m) x Width (m) = m² or length (ft.) x width (ft.) = sq. yds.

3. Refer to conversion chart no. 6 - m (6).

REPORTING UNITS = meters squared (square yards)

<table>
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<tr>
<th>CLASS CODE</th>
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<td>4050</td>
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<td>27' Flatbed Trailer</td>
</tr>
</tbody>
</table>

SMALL TOOLS

- Shovels
- Rakes
- Hand Tamp
- Sodcutter
- Machetes
- Metric Measuring Devices
- Work Signs and Safety Equipment
- Personal Safety Equipment

MATERIAL

- Fertilizer
- Stakes
- Sod
- Water
- Litter Bags

EFFECTIVE DATE: July 1, 1996

APPROVED, BY: [Signature]
State Maintenance Engineer
FLORIDA DEPARTMENT OF TRANSPORTATION
MAINTENANCE MANAGEMENT SYSTEM
ROUTINE MAINTENANCE ACTIVITY

<table>
<thead>
<tr>
<th>SEEDING, FERTILIZING and MULCHING</th>
<th>MMS ACTIVITY : 435</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MRP: ROADSIDE, DRAINAGE, VEGETATION and AESTHETICS</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Seeding, fertilizing, and mulching of the roadside. To include seeding, fertilizing, and mulching associated with reworking non-paved shoulders, Standard 436 and Slope and Ditch Repair, Standard 437. Sodding should be reported to Activity 433.

**PURPOSE**

To establish and maintain a desirable turf and prevent erosion of the unpaved portion of the roadway.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey

**RECOMMENDED WORK SEQUENCE**

1. Place Work Zone Traffic Control Devices in accordance to MUTCD & 600 series of the FDOT Roadway and Traffic Design Standards.
2. Place seed, fertilizer and mulch according to specifications, standards, special provisions and training resources listed below
3. Clean up work site.
4. Complete crew report before moving to the next site.
5. Pick up signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

3. FDOT Standard Specifications for Road & Bridge Construction - Section 570.
5. BT-07-002 Work Zone Traffic Control for Maintenance & Utility Operations (Level 3).
MRP CRITERIA Refer to Vegetation and Aesthetics element, under “Turf Condition”
Turf in the mowing area is 75% free of undesired vegetation.

- "Unpaved Shoulder" - No shoulder drop-off exceeds 76.0 mm (5") deep within 0.31 m (1') of the pavement edge for a continuous 7.62 m (25'); No deviations across shoulder width exist greater than 127.0 mm (5") below or 50.8 mm (2") above the design template; No washboard areas exist having a total differential greater than 127.0 mm (5") from the low spot to the high spot.
- "Front Slope" - No ruts or washouts exist greater than 152.40 mm (6") in depth.
- "Roadside/Median Ditch" - The ditch bottom is (varies) meters or more below the (Non-Paved) outside edge of pavement and/or functions as intended.

<table>
<thead>
<tr>
<th></th>
<th>Radius (m</th>
<th>Radius (3&quot;)</th>
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<tbody>
<tr>
<td>Rural Limited Access</td>
<td>0.91</td>
<td>3'</td>
</tr>
<tr>
<td>Rural Arterial</td>
<td>0.91</td>
<td>3'</td>
</tr>
<tr>
<td>Urban Limited Access</td>
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<td>2 1/2</td>
</tr>
<tr>
<td>Urban Arterial</td>
<td>0.76</td>
<td>2 1/2</td>
</tr>
<tr>
<td>Median</td>
<td>0.6</td>
<td>2'</td>
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</tbody>
</table>

METHOD OF REPORTING
1. Report the hectares (acres) of seeding, fertilizing and mulching upon completion of the required operation. Report to the nearest hundredth.
2. Use \( \text{Length (m) \times Width (m) = hectares} \) ; \( \text{L (Ft.) \times W (Ft.) = acres} \)
   
3. 10,000 m² = 43,560 sq. ft.
4. Refer to conversion chart 8 - m, ( 8 ), 9 - m.
5. Use the following percentages when reporting work accomplished.
   a. Seeding---------20%
   b. Fertilizing---------20%
   c. Mulching--------60%

REPORTING UNITS = hectares (acres)

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<tr>
<th>CLASS CODE</th>
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<th>FLEET CODE</th>
<th>NO.</th>
<th>EQUIPMENT DESCRIPTION</th>
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<td>2-Ton Crew Cab</td>
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<tr>
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<td>Tractor 55 HP</td>
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<td>Safety and traffic control assistance as required.</td>
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<td></td>
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<td>1600</td>
<td>1</td>
<td>Asphalt Dist. or Liquid Mulch Applicator</td>
</tr>
</tbody>
</table>

SMALL TOOLS
- Necessary Hand Tools
- Work Signs and Safety Equipment
- Measuring Devices
- Personal Safety Equipment

MATERIAL
- Seed
- Mulch
- Fertilizer
- Asphalt Emulsifier or Liquid Mulch
- Litter Bags

EFFECTIVE DATE: July 1, 1996

APPROVED BY

[Signature]
State Maintenance Engineer
**FLORIDA DEPARTMENT OF TRANSPORTATION**  
**MAINTENANCE MANAGEMENT SYSTEM**  
**ROUTINE MAINTENANCE ACTIVITY**

| REWORKING NON-PAVED SHOULders, FRONT SLOPES and ROADSIDE DITCHES (MECHANICAL) | MMS ACTIVITY : 436  
| MRP: ROADSIDE and DRAINAGE |

**DESCRIPTION**

Reworking non-paved shoulders, front slopes, roadside ditches and turnouts either by the addition of suitable material and reshaping, or by cutting down built-up areas. This should include the reworking of shoulders done by State Forces after a resurfacing project. Report fertilizing, seeding and mulching to Activity 435.

**PURPOSE**

Maintain proper roadway section by restoring shoulders, ditches and slopes to proper grade and slope.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey

**RECOMMENDED WORK SEQUENCE**

1. Place Work Zone Traffic Control Devices in accordance to MUTCD & Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Rework non-paved shoulders, front slopes and roadside ditches in accordance with Specifications, Standards and Training Resources listed below.
3. Clean up work site.
5. Pickup work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

3. FDOT Standard Specifications for Roadway & Bridge Construction - Section 104 & 120.
5. BT-07-0002 Work Zone Traffic Control for Maintenance & Utility Operations (Level 3).
7. Maintenance Rating Program (Procedure No. 850-065-0002)
MRP CRITERIA:
Refer to Roadside element under

- "Unpaved Shoulder" - No shoulder drop-off exceeds 76.20 mm (5") deep within .031 m (1") of the pavement edge for a continuous 7.62 m (25') No deviations across shoulder width exist greater than 127.0 mm (5") below or 50.80 mm (2") above the design template; No washboard areas exist having a total differential greater than 127.0 mm (5") from the low spot to the high spot.
- "Front Slope" - No ruts or washouts exist greater than 152.40 mm (6") in depth. And Drainage element.
- "Roadside Ditch" - The ditch bottom is (varies) meters or more below the (Non-Paved) outside edge of pavement and/or functions as intended.

| Rural Limited Access | - 0.91 m (3') |
| Rural Arterial       | - 0.91 m (3') |
| Urban Limited Access | - 0.76 m (2 1/2') |
| Urban Arterial       | - 0.76 m (2 1/2') |
| Median               | - 0.6 m (2') |

METHOD OF REPORTING
1. Report the hectares (acres) of shoulders, slopes, ditches and turnouts repaired as defined in the description to the nearest hundredth.
2. Area of turnouts are to be included when the repair is performed as part of this activity.
3. Areas used to dispose of excess material on site will not be reported.
4. Use Length (m) X Width (m) = hectares; Length (ft.) X width (ft.) = acres
   10,000 m² = 43,560 Sq. Ft.
5. Refer to conversion chart no. 8 - m, (8'), 9 - m.

REPORTING UNITS = hectares (acres)

<table>
<thead>
<tr>
<th>CLASS CODE</th>
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<th>FLEET CODE</th>
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<tbody>
<tr>
<td>9760</td>
<td>6</td>
<td>OMSI III</td>
<td>0520</td>
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<td>3/4 Ton Pickup Truck</td>
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<tr>
<td>9750</td>
<td>2</td>
<td>OMSI II</td>
<td>1510</td>
<td>3</td>
<td>Dumps - 8 Yd Capacity</td>
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<td>3120</td>
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<td>2560</td>
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<td>Rotovator or Disc Harrow</td>
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<td>Traffic Roller, Tractor Pulled</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Mounted</td>
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</table>

SMALL TOOLS
Various Hand Tools As Necessary
Shovels
Rakes
Work Signs and Safety Equipment
Personal Safety Equipment

MATERIAL
Stable Fill Material
Litter Bags

EFFECTIVE DATE:
July 1, 1996

APPROVED BY
State Maintenance Engineer
**MRP CRITERIA:**

Refer to Roadside element, under:

- "Unpaved Shoulder" - No shoulder drop-off exceeds 76.0 mm (5") deep within 0.31 m (1') of the pavement edge for a continuous 7.62 m (25'); No deviations across shoulder width exist greater than 127.0 mm (5") below or 50.8 mm (2") above the design template; No washboard areas exist having a total differential greater than 127.0 mm (5") from the low spot to the high spot.
- "Front Slope" - No ruts or washouts exist greater than 152.4 mm (6") in depth.
- "Roadside Ditch" - The ditch bottom is (varies) meters or more below the outside edge of pavement and/or functions as intended.

| Rural Limited Access | 0.91 m (3') |
| Rural Arterial       | 0.91 m (3') |
| Urban Limited Access | 0.76 m (2 1/2') |
| Urban Arterial       | 0.76 m (2 1/2') |
| Medians              | 0.6 m (2') |

**METHOD OF REPORTING**

1. Report the cubic meters (cubic yards) of material to the nearest hundredth.
2. Or use: `Length (m) x Width (m) x Average Depth (m) = m³`, `Length (ft.) x Width (ft.) x Average Depth (ft.) = cubic yards (cu. yds.)`
3. Refer to conversion chart no. 7 - m (7).

**REPORTING UNITS** = cubic meters (cubic yards)

<table>
<thead>
<tr>
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<th>EQUIPMENT</th>
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</thead>
<tbody>
<tr>
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<thead>
<tr>
<th>SMALL TOOLS</th>
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<tbody>
<tr>
<td>Shovels</td>
<td>Fill Material</td>
</tr>
<tr>
<td>Measuring Devices</td>
<td>Litter Bags</td>
</tr>
<tr>
<td>Work Signs and Safety Equipment</td>
<td></td>
</tr>
<tr>
<td>Personal Safety Equipment</td>
<td></td>
</tr>
</tbody>
</table>

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY**

State Maintenance Engineer
**CONCRETE SIDEWALK REPAIR**

**MMS ACTIVITY:** 459  
**MRP:** ROADSIDE

### DESCRIPTION

Repair or replacement of existing sections of concrete sidewalk.  
Construction of (additional) sidewalk is to be completed under Activity # 993 - Betterment.

### PURPOSE

To restore defective sidewalk back to it's original condition or current design standard.

### SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

### RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.  
2. Remove all of the damaged material as needed, prepare area to line & grade and place necessary forms.  
3. Place concrete and finish. Apply curing compound.  
4. Remove forms, perform needed finish work and remove all debris from the job site.  
5. Place appropriate barricades if overnight material set is expected.  
6. Complete crew report before moving to new site.  
7. Pick up work signs and other safety equipment as appropriate; move to next work site.

### SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

3. FDOT Standard Specifications for Road & Bridge Construction - Section 522.  
4. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).  
ACTIVITY 459

MRP CRITERIA

Refer to Roadside element, under "Sidewalk."

99.5% of sidewalk area is free of vertical fracture or horizontal crack greater than 19.05 mm (3/4").

METHOD OF REPORTING

1. Report the area of sidewalk repaired to the nearest hundredth.
2. Length (m) X Width (m) = square meters (m²); Length (ft.) X Width (ft.) = square yards (sq. Yds.).
3. Refer to conversion chart no. 6 - m (6).

REPORTING UNITS = square meters (sq. yds.)

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<tr>
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<th>EQUIPMENT DESCRIPTION</th>
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<td>1</td>
<td>OMST - III</td>
<td>1100</td>
<td>1</td>
<td>2-Ton Crew Cab</td>
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<tr>
<td>9740</td>
<td>3</td>
<td>OMST - I</td>
<td>9112</td>
<td>1</td>
<td>Air Compressor 250 CFM</td>
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<td>Safety and traffic control assistance as needed</td>
<td>3531</td>
<td>1</td>
<td>Portable Concrete Mixer - 11 C.F.</td>
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<tr>
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<td>9200</td>
<td>1</td>
<td>Portable Generator Under 25 KW</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>0520</td>
<td>1</td>
<td>3/4 - Ton Pickup</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>9270</td>
<td>1</td>
<td>Trailer Mounted Flasing Arrow</td>
</tr>
</tbody>
</table>

SMALL TOOLS

Miscellaneous Power Tools
Finishing Tools
Wheelbarrow
Work Signs and Safety Equipment
Curing Compound Sprayer
Air Operated Jack Hammer
Circular Saw
Concrete Saw
Measuring Devices
Various Hand Tools as Necessary

MATERIAL

Ready Mix Concrete or Sand, Gravel, Cement, or Pre-Mixed Bagged Concrete
Expansion Materials
Forming Materials and Necessary Hardware
Water
Litter Bags
Curing Compound

EFFECTIVE DATE

July 1, 1996

APPROVED BY

[Signature]
State Maintenance Engineer
<table>
<thead>
<tr>
<th>FENCE REPAIR</th>
<th>MMS ACTIVITY : 527</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRP: ROADSIDE</td>
<td></td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Repair of fence, including deteriorated components. Construction of (additional) fence will be charged to Betterment (993).

**PURPOSE**

To provide highway safety and deter unauthorized and unrestrained access to highway facilities.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Repair fence components where possible or replace defective components in accordance with appropriate standards.
3. Clean up work site.
4. Complete crew report before moving to the next site.
5. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

1. Manual on Uniform Traffic Control Devices (MUTCD)
2. FDOT Roadway and Traffic Design Standard Indexes 450, 451, 452 & 600 Series
3. FDOT Standard Specifications for Road & Bridge Construction - Section 550, Sections 954 (Fence) & 966 (Posts)
5. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3)
**ACTIVITY NO. 527**

**MRP CRITERIA**

Refer to Roadside element, under "Fence."

No unrestrained access is allowed. Fence height must be a minimum of 2/3 of the original height as measured from natural ground or have no hole greater than 0.18 m² (2 sq. ft.)

**METHOD OF REPORTING**

Report the total length of fence repaired or replaced. Construction of additional fence will be charged to a Betterment job number.

**REPORTING UNITS = meters (linear feet)**

**PERSONNEL**

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<thead>
<tr>
<th>CLASS CODE</th>
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<th>SKILL CLASS</th>
<th>FLEET CODE</th>
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<th>EQUIPMENT DESCRIPTION</th>
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<tr>
<td>9750</td>
<td>1</td>
<td>OMST - Level II</td>
<td>1100</td>
<td>1</td>
<td>2-Ton Crew Cab</td>
</tr>
<tr>
<td>9740</td>
<td>3</td>
<td>OMST - Level I</td>
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</table>

*Safety and traffic control assistance as needed*

**EQUIPMENT**

<table>
<thead>
<tr>
<th>FLEET CODE</th>
<th>NO.</th>
<th>EQUIPMENT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1100</td>
<td>1</td>
<td>2-Ton Crew Cab</td>
</tr>
</tbody>
</table>

**SMALL TOOLS**

Post Hole Diggers
Tamps
Shovels
Measuring Devices
Miscellaneous Wrenches
Mechanical Auger
Fence Puller
Chain Saw
Work Signs and Safety Equipment

**MATERIAL**

Fence Wire
Posts
Miscellaneous Hardware
Litter Bags

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY**

[Signature]

State Maintenance Engineer
ROUTINE MAINTENANCE
ACTIVITIES

DRAINAGE
FLORIDA DEPARTMENT OF TRANSPORTATION
MAINTENANCE MANAGEMENT SYSTEM
ROUTINE MAINTENANCE ACTIVITY

<table>
<thead>
<tr>
<th>CLEAN DRAINAGE STRUCTURES</th>
<th>MMS ACTIVITY: 451</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>MRP: DRAINAGE</td>
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</table>

DESCRIPTION

Manual or Mechanical:
Cleaning storm drains, french drains, manholes, side drains, cross drains, inlets, piped outfalls, box culverts, and other miscellaneous drain structures. Not to include bridge drains.

PURPOSE

To maintain proper drainage system for protection of the roadway.

SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Remove debris such as lumber, tree branches or material that might create an obstruction to proper drainage. Load into truck and haul away to appropriate disposal site.
3. Check the outfall end of the drainage system to be sure it is not plugged by sediment and vegetation and that there is no serious scour damage (See Activity No. 464 for cleaning outfall ditches).
4. Control soil run-off and other soil erosion in accordance with publications listed below.
5. Clean up work site.
6. Complete crew report before moving to new site.
7. Pick up work signs and other safety equipment.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600 & 200 series.
4. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
5. Operator’s Manual (Sewer Cleaner)
ACTIVITY NO. 451

MRP CRITERIA
Refer to Drainage element under the following:

- Side / Cross Drain: 60% of the cross-sectional area is not obstructed
- Inlets: 85% of the opening is not obstructed
- Misc. Drainage Structures: 90% of each structure functions as intended

METHOD OF REPORTING
1. Use a tape or measuring wheel and report the length cleaned to the nearest hundredth.
2. Each inlet cleaned equals 2 meters (6 linear feet)
   If only inlet top cleaned, report one (1) meter (3 feet)

REPORTING UNITS = meters (lineal feet)

<table>
<thead>
<tr>
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<th>EQUIPMENT</th>
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<tbody>
<tr>
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<td>9740</td>
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<td></td>
<td>9270</td>
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<tr>
<td>9750</td>
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</tr>
<tr>
<td>9740</td>
<td>3</td>
</tr>
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</table>

SMALL TOOLS
Hoe
Various Hand Tools
Shovels
Swing Blades
Hand Pipe Shovels
Pry Bar
Hydraulic Jack
Measuring Devices
Work signs and safety equipment
Personal Safety Equipment

MATERIAL
Litter bags
Sod

EFFECTIVE DATE: July 1, 1996

APPROVED BY
W. J. Allborough
State Maintenance Engineer
| Repair or Replace Storm Drains, Side Drains, Cross Drains | MMS Activity: 456  
MRP: DRAINAGE |
---|---|
**Description**
Repair or replacement of storm drains, side drains, cross drains, french drains and mitered ends. Not to include repair of items listed for Activity 457.

**Purpose**
To maintain drainage structures in good operating condition.

**Scheduling Frequency**
As determined by the Work Needs Survey.

**Recommended Work Sequence**
1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Repair or replace sections of damaged pipe. Be sure grates and manhole covers are not damaged and are secured in place by tack welding or chaining. Be sure all joints are sealed.
3. Control soil run-off and other soil erosion in accordance with publications listed below.
4. Clean up work site.
5. Complete crew report before moving to new site.
6. Pick up work signs and other safety equipment.

**Specifications, Standards, Special Provisions, Procedures and Training Resources**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600 & 200 series.
3. FDOT Standard Specifications for Roadway and Bridge Construction
5. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
MRP CRITERIA

Refer to Drainage element under the following characteristics:

- Side / Cross Drain: 60% of the cross-sectional area is not obstructed
- Inlets: 85% of the opening is not obstructed
- Misc. Drainage Structures: 90% of each structure functions as intended

METHOD OF REPORTING

Report the total length of pipe repaired or replaced as units of work completed to the nearest hundredth.

REPORTING UNITS = meters (linear feet)

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<thead>
<tr>
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<th>EQUIPMENT</th>
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<tbody>
<tr>
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</table>

Safety and traffic control assistance as required.

SMALL TOOLS

- Shovels
- Concrete Finishing Tools
- Hand Pipe Shovel
- Diaphragm Pump
- Miscellaneous Wrenches
- Measuring Devices
- Work Signs and Safety Equipment
- Personal Safety Equipment

MATERIAL

- Pipe
- Cement and Aggregate
- Sand Bags
- Brick
- Forming Material
- Litter Bags

EFFECTIVE DATE:

July 1, 1996

APPROVED BY

State Maintenance Engineer
FLORIDA DEPARTMENT OF TRANSPORTATION
MAINTENANCE MANAGEMENT SYSTEM
ROUTINE MAINTENANCE ACTIVITY

<table>
<thead>
<tr>
<th>CONCRETE REPAIR</th>
<th>MMS ACTIVITY: 457</th>
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</thead>
<tbody>
<tr>
<td>MRP: DRAINAGE</td>
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</tbody>
</table>

DESCRIPTION

Concrete repair on items such as catch basins, barrier wall, median inlets, head walls, curb inlets, pedestrian underpasses, seawalls, retention walls, and box culverts [under 6 m (20') span], curb and gutters, paved ditches, paved slopes, flumes or spillways, and rip rap. Not to include bridge or sidewalk repair.

PURPOSE

To maintain drainage structures and concrete items in good operating condition.

SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Determine required forming procedures and necessary materials.
3. Form item as needed.
4. Replace or repair reinforcing steel as needed.
5. Place concrete, cement or epoxy as required, and finish.
6. Apply curing compound.
7. Place appropriate barricades if overnight material set is expected.
8. Remove forms after material has set. Control run-off and other soil erosion in accordance with publications listed below.
9. Clean up work site.
10. Complete crew report before moving to new site.
11. Pick up work signs and other safety equipment.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index.
3. FDOT Standard Specifications for Roadway and Bridge Construction.
5. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
**ACTIVITY NO.**  457

**MRP CRITERIA**

Refer to Drainage under the following characteristics:

- **Side / Cross Drain**: 60% of the cross-sectional area is not obstructed and functions as intended
- **Inlets**: Broken or damaged curb inlets with exposed reinforcing steel does not meet conditions. Concrete cradle must support grates.
- **Miscellaneous Drainage Structures**: Concrete cradle must support grates

**METHOD OF REPORTING**

Report the volume of concrete placed to the nearest hundredth using one of the following methods:

1. Calculate Length (m) x Width (m) x Depth (m) = m³,
   
   \[ \text{Length (ft.)} \times \text{Width (ft.)} \times \text{Average Depth (ft.)} = \text{cubic yards (cu. yds.)} \]
   
   27 cu. ft.

2. Refer to conversion chart no. 7 - m (7).

**REPORTING UNITS** = meters cubed (cubic yards)

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</tbody>
</table>

**SMALL TOOLS**

- Shovels
- Concrete Finishing Tools
- Wheelbarrow or Mortar Box
- Work Signs and Safety Equipment
- Concrete Curing Compound Sprayer
- Air Operated Jack Hammer
- Circular Saw
- Power Drill
- Concrete Saw
- Measuring Devices
- Various Hand Tools as Necessary
- Personal Safety Equipment

**MATERIAL**

- Cement, Aggregate and Sand or Batch Mix Concrete
- Pre-Mixed Bagged Concrete
- Reinforcing Steel
- Forming Material and Necessary Hardware
- Curing Compound
- Water
- Litter Bags

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY**

[Signature]

State Maintenance Engineer
| ROADSIDE DITCHES - CLEAN & RESHAPE | MMS ACTIVITY : 461  
<table>
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<tbody>
<tr>
<td><strong>DESCRIPTION</strong></td>
<td><strong>MRP:</strong> DRAINAGE</td>
</tr>
<tr>
<td>Cleaning and reshaping of ditches other than outfalls.</td>
<td></td>
</tr>
<tr>
<td><strong>PURPOSE</strong></td>
<td></td>
</tr>
<tr>
<td>To maintain proper roadway drainage by restoring ditches to line, grade and slope</td>
<td></td>
</tr>
<tr>
<td><strong>SCHEDULING FREQUENCY</strong></td>
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</tr>
<tr>
<td>As determined by the Work Needs Survey.</td>
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</tr>
<tr>
<td><strong>RECOMMENDED WORK SEQUENCE</strong></td>
<td></td>
</tr>
<tr>
<td>1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.</td>
<td></td>
</tr>
<tr>
<td>2. Grade ditch to proper line and grade, loading excess material into truck.</td>
<td></td>
</tr>
<tr>
<td>3. Haul excess material to designated area.</td>
<td></td>
</tr>
<tr>
<td>4. Control run-off and other soil erosion in accordance with publications listed below.</td>
<td></td>
</tr>
<tr>
<td>5. Clean up work site.</td>
<td></td>
</tr>
<tr>
<td>6. Complete crew report before moving to new site.</td>
<td></td>
</tr>
<tr>
<td>7. Pick up work signs and other safety equipment.</td>
<td></td>
</tr>
</tbody>
</table>

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600.
3. FDOT Standard Specifications for Roadway and Bridge Construction.
5. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
MRP CRITERIA

Refer to Drainage element under "Roadside/Median Ditch"

- The ditch bottom is * ___ * meters (feet) or more below the outside edge of pavement and functions as intended.

* Rural Limited Access - 0.9 m (3')
* Rural Arterial - 0.9 m (3')
* Urban Limited Access - 0.7 m (2 1/2')
* Urban Arterial - 0.7 m (2 1/2')
* Median (all facilities) - 0.6 m (2')

METHOD OF REPORTING

1. Use a tape or measuring wheel to measure and report length of ditch cleaned or repaired to the nearest hundredth.
2. Report the length in meters (linear feet).

REPORTING UNITS = meters (linear feet)

PERSONNEL

<table>
<thead>
<tr>
<th>CLASS CODE</th>
<th>NO.</th>
<th>SKILL CLASS</th>
<th>FLEET CODE</th>
<th>NO.</th>
<th>EQUIPMENT DESCRIPTION</th>
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<td>0520</td>
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<td>Wood Chipper</td>
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</table>

SMALL TOOLS

Various Hand Tools
Measuring Devices
Work signs and safety equipment
Personal Safety Equipment

MATERIAL

Litter bags
Sod

EFFECTIVE DATE:

July 1, 1996

APPROVED BY

State Maintenance Engineer
OUTFALL DITCHES -
CLEAN & REPAIR

MMS ACTIVITY: 464
MRP: DRAINAGE

DESCRIPTION

Cleaning of outfall ditches and restoration of slopes and bottom areas. Report to activity 487 when efforts are limited to brush and weed cutting only. Piped outfalls will be reported to Activity 451. Repair of paved outfall ditch will be reported to Activity 457.

PURPOSE

To provide adequate drainage and remove unsightly vegetation that cannot be controlled by more cost effective means.

SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Clean and level access area for excavating equipment as required.
3. Proceed with cleaning operations by removing vegetation, debris and silted material to desired grade. Restore slopes and bottoms to proper shape.
4. Control run-off and other soil erosion in accordance with publications listed below.
5. Dispose of excess as appropriate.
6. Clean up work site.
7. Complete crew report before moving to new site.
8. Pick up work signs and other safety equipment.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600 & 200 series
3. FDOT Standard Specifications for Roadway and Bridge Construction
5. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3)
**ACTIVITY NO.** 464

**MRP CRITERIA**

Refer to Drainage element under "outfall ditch"

Outfall Ditch - the ditch bottom is at or within the lower 1/3 of the distance between natural ground and the design flowline.

**METHOD OF REPORTING**

1. Use a tape or measuring wheel to measure length of ditch cleaned or repaired.
2. Report to the nearest hundredth.

REPORTING UNITS = meters (linear feet)

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</table>

**SMALL TOOLS**
Various Hand Tools as Necessary
Measuring Devices
Work Signs and Safety Equipment
Personal Safety Equipment

**MATERIAL**
Litter bags

**EFFECTIVE DATE:**
July 1, 1996

APPROVED BY
W. J. Allborn
State Maintenance Engineer
### MITIGATION AREA MAINTENANCE

**MMS ACTIVITY:** 465  
**MRP:** NONE

**DESCRIPTION**

All efforts required for proper maintenance of Mitigation Areas. Includes control of nuisance vegetation by herbicide and/or manual removal.

**PURPOSE**

To re-establish wetland areas to comply with current environmental regulations.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Specific requirements for each site as shown in each individual permit.
3. Clean up work site.
4. Complete crew report before moving to new site.
5. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index
3. FDOT Standard Specifications for Roadway and Bridge Construction
<table>
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<tr>
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</tbody>
</table>

**SMALL TOOLS**
Various Hand Tools as Necessary
Measuring Devices
Work Signs and Safety Equipment
Personal Safety Equipment
Backpack Sprayer

**MATERIAL**
Litter bags
Plants as required by permit
Herbicide and Additives

**EFFECTIVE DATE:**
July 1, 1996

**APPROVED BY**
State Maintenance Engineer
### STORM WATER MANAGEMENT

<table>
<thead>
<tr>
<th>MMS ACTIVITY : 498</th>
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<tr>
<td>MRP: NONE</td>
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</tbody>
</table>

#### DESCRIPTION

All efforts required to maintain Surface/Storm Water Management Systems functioning as designed and permitted. Efforts include but are not limited to mowing, litter removal, chemical or manual weed control, fence repair, cleaning and repair of drainage structures ... etc. Generally work will be confined to the permitted retention/detention areas however, other systems may be included which routinely require significant workloads greater than the statewide planning values.

#### PURPOSE

To maintain, to the maximum extent practicable, all surface/storm water management systems to a functioning state as designed and in compliance with the permit conditions and/or applicable rules and regulations.

#### SCHEDULING FREQUENCY

As determined by the Work Needs Survey and permit requirements.

#### RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Clean and level access area for heavy equipment as required.
3. Proceed with cleaning operations which include removing nuisance vegetation, debris, and silted material. Back flush filtration systems or replace clogged sand/fabric filter if required. Restore slopes and bottom areas to original design elevation.
4. Control run-off and other soil erosion in accordance with publications listed below.
5. Check and clean out control structures, discharge orifices, inlet/outlet pipes, and associated spillways and conveyance systems.
6. Clean up worksite and perform disposal of excess materials as appropriate.
7. Complete crew report before moving to new site.
8. Pick up work signs and other safety equipment.

#### SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600 and 200 series.
3. FDOT Standard Specifications for Roadway and Bridge Construction.
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
6. Applicable permit conditions/requirements.
9. Guide to Turf Management (Procedure 850-060-004)
**ACTIVITY NO. 498**

**MRP CRITERIA**
NONE

**METHOD OF REPORTING**
1. Report hectares (acres) completed to the nearest hundredth.
2. Use Conversion Chart No. 8 - m, (8), 9 - m

**REPORTING UNITS =** hectares (acres)

<table>
<thead>
<tr>
<th>PERSONNEL</th>
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**SMALL TOOLS**
- Various hand tools as necessary.
- Miscellaneous mechanical hand tools for on-job repairs.
- Shovels including hand - pipe type.
- Push mower.
- Mechanical weed cutter small.
- Chainsaw.
- Work signs and safety equipment.
- Personal safety equipment.

**MATERIAL**
- Litter bags.
- Sod.
- Other materials as needed.

**EFFECTIVE DATE:**
July 1, 1996

**APPROVED BY:**
STATE MAINTENANCE ENGINEER
**FLORIDA DEPARTMENT OF TRANSPORTATION**  
**MAINTENANCE MANAGEMENT SYSTEM**  
**ROUTINE MAINTENANCE ACTIVITY**

<table>
<thead>
<tr>
<th>ROAD SWEEPING (MANUAL)</th>
<th>MMS ACTIVITY : 542</th>
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</thead>
<tbody>
<tr>
<td><strong>MRP:</strong> DRAINAGE</td>
<td></td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Hand sweeping of roadway to protect the facility from excessive accumulation of debris.

**PURPOSE**

To remove debris from the roadway where mechanical means are not feasible before a drainage or safety problem is created or before it becomes unsightly.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Sweep area with road brooms to convenient pick-up points.
3. Load and haul accumulated material to nearest approved disposal area.
4. Complete crew report before moving to new site.
5. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600
4. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
ACTIVITY NO. 542

MRP CRITERIA

Refer to Drainage Element under:

Roadway Sweeping - Material accumulation is not greater than 19 mm (3/4") deep for more than a continuous 0.3 m (1') in the traveled way or shall not exceed 57 mm (2 1/4") in depth for more than a continuous 0.3 m (1') in any gutter.

METHOD OF REPORTING

1. Report the total length of curb or edges cleaned.
2. Report to the nearest hundredth.
3. Refer to conversion chart no. 5 - m (4).

REPORTING UNITS = kilometers (mile)

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<td>1</td>
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<tr>
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<td>OMST - I</td>
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</table>

Safety and traffic control assistance as required

SMALL TOOLS

Wheel Barrow
Hand Brooms
Shovels
Measuring Devices
Work Signs and Safety Equipment
Personal Safety Equipment
Various Hand Tools

MATERIAL

None
Litter Bags

EFFECTIVE DATE: July 1, 1996

APPROVED BY

State Maintenance Engineer
**FLORIDA DEPARTMENT OF TRANSPORTATION**  
**MAINTENANCE MANAGEMENT SYSTEM**  
**ROUTINE MAINTENANCE ACTIVITY**

| ROAD SWEEPING (MECHANICAL) | MMS ACTIVITY: 543  
|----------------------------|-------------------  
| MRP: DRAINAGE             |                   |

**DESCRIPTION**

Machine sweeping of roadway to protect the facility from excessive accumulation of debris.

**PURPOSE**

To remove debris from the roadway before it creates a safety or drainage problem or it becomes unsightly.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Operate machine so as to pick up debris from roadway.
3. Haul accumulated material to nearest approved disposal area.
4. Complete crew report before moving to new site.
5. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600
4. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
5. Operator’s Manual (Street Sweeper)
MRP CRITERIA

Refer to Drainage Element under:

Roadway Sweeping - Material accumulation is not greater than 19 mm (3/4") deep for more than a continuous 0.3 m (1') in the traveled way or shall not exceed 57 mm (2 1/4") in depth for more than a continuous 0.3 m (1') in any gutter.

METHOD OF REPORTING

1. Report the total length of curb or edge miles cleaned.
2. Report to the nearest hundredth.
3. Refer to conversion chart nos. 5 - m (4).

REPORTING UNITS = kilometers (mile)

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<td>Follow Truck w/attenuator</td>
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<td>9270</td>
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<td>Pickup Truck as needed</td>
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<td>Arrow Board</td>
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</table>

Safety and traffic control assistance as required

SMALL TOOLS

Various Hand Tools
Measuring Devices
Work Signs and Safety Equipment
Personal Safety Equipment

MATERIAL

Litter Bags

EFFECTIVE DATE:
July 1, 1996

APPROVED BY
State Maintenance Engineer
ROUTINE MAINTENANCE ACTIVITIES

VEGETATION AND AESTHETICS
## LARGE MACHINE MOWING

### DESCRIPTION

Mowing of roadside areas with large mowers where conditions accommodate the efficient use of 2 m (7') or larger mowers, alone or in combination.

### PURPOSE

To maintain the safety, appearance and drainage of the highway facility.

### SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

### RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Service equipment for mowing operation.
3. Pick up litter prior to mowing.
4. Perform mowing operations in accordance with established procedures and appropriate publications listed below.
5. Complete crew report before moving to new site.
6. Pick up work signs and other safety equipment.

### SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600 Series.
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
**ACTIVITY NO. 471**

**MRP CRITERIA**

Refer to Vegetation and Aesthetics element under "Roadside Mowing".

No more than 2% of vegetation exceeds 610 mm (24") rural interstate, 457 mm (18") on urban interstate, and rural primary or 305 mm (12") on urban primary roadways. Bahia seed stalks and decorative wild flowers excepted.

**METHOD OF REPORTING**

1. Report the hectares (acres) mowed to the nearest hundredth.
2. Do not report overlapping or dead heading.
3. Use \( \text{Length (m)} \times \text{Width (m)} = \text{hectares or Length (ft.)} \times \text{Width (ft.)} = \text{acres} \)
   
   - 10,000 m\(^2\) = 43,560 sq. ft.
4. Refer to conversion chart no. 8 - m, (8), 9 - m.
5. If litter removal operations exceed .5 crew hours, report time to Activity 541.

**REPORTING UNITS = hectares (Acres)**

<table>
<thead>
<tr>
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<tr>
<td><strong>SMALL TOOLS</strong></td>
<td><strong>MATERIAL</strong></td>
</tr>
<tr>
<td>Miscellaneous mechanical hand tools for on-job repairs</td>
<td></td>
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<tr>
<td>Measuring Devices</td>
<td></td>
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<tr>
<td>Work signs and safety equipment</td>
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<tr>
<td>Personal safety equipment</td>
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<td>Materials as required</td>
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<tr>
<td>Litter bags</td>
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**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY**

[Signature]
State Maintenance Engineer
<table>
<thead>
<tr>
<th>SLOPE MOWING</th>
<th>MMS ACTIVITY: 482</th>
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<tbody>
<tr>
<td>MRP: VEGETATION and AESTHETICS</td>
<td></td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Grass, brush and weed cutting along slopes too steep to safely mow or are inaccessible for conventional mowing tractors. All mowing and brush cutting with mechanical slope mowers are to be reported to this activity. Boom Mower cutting heads shall not be operated higher than 0.3 m (1') above ground level.

**PURPOSE**

To maintain the appearance, safety and drainage of the highway facilities in areas that cannot be controlled by more economical means.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Service equipment for slope mowing operations and brush cutting.
3. Pick up litter prior to mowing.
4. Proceed with cutting operations in accordance with established procedures and appropriate publications listed below.
5. Load and haul cut vegetation to an approved disposal site.
6. Complete crew report before moving to new site.
7. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

***All referenced publications shall be current edition with supplements***

2. FDOT Roadway and Traffic Design Standard Index No. 600 Series
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
**FLORIDA DEPARTMENT OF TRANSPORTATION**  
**MAINTENANCE MANAGEMENT SYSTEM**  
**ROUTINE MAINTENANCE ACTIVITY**

<table>
<thead>
<tr>
<th>LITTER REMOVAL</th>
<th>MMS ACTIVITY : 541</th>
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<tbody>
<tr>
<td></td>
<td>MRP: VEGETATION and AESTHETICS</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Clearing roadways and roadides of debris, tires, appliances, furnitures, trash, Adopt-A-Highway litter bags, etc. Does not include wayside parks, rest areas and service plaza barrels.

**PURPOSE**

To maintain the roadways and roadsides in a clean and safe condition by removing unsightly and hazardous objects.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Pick up litter and place into litter bags.
3. Place litter into truck.
4. Dispose of collected litter at authorized locations.
5. Complete crew report before moving to the next site.
6. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index 600 Series.
4. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
**ACTIVITY NO. 541**

**MRP CRITERIA**

Refer to Vegetation and Aesthetics element under "Litter Removal":

Area will be free of litter that creates a hazard to motorist or pedestrian traffic and does not exceed 0.17 m³ (6 cu. ft.) per 0.4 hectares (1 acre) within the roadway and roadside area.

**METHOD OF REPORTING**

1. Measure the area that litter was removed and report length (to the nearest hundreth)
2. Use the following formula; length (m) x width (m) = hectares, or length (Ft.) X width (Ft.) = acres
   - 10,000 m² = 43,560 Sq. Ft.
3. Refer to conversion chart no. 8 - m, (8), 9 - m.

| REPORTING UNITS = hectares (acres) |

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<th>PERSONNEL</th>
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_Safety and traffic control assistance as required_

<table>
<thead>
<tr>
<th>SMALL TOOLS</th>
<th>MATERIAL</th>
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<tbody>
<tr>
<td>Various Hand Tools</td>
<td>Litter Bags</td>
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<td>Litter Sack</td>
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<tr>
<td>Work Signs and Safety Equipment</td>
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</table>

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY**

[Signature]

State Maintenance Engineer
CHEMICAL WEED and GRASS CONTROL (WIPING)  |  MMS ACTIVITY: 497  
|  MRP: VEGETATION and AESTHETICS |

**DESCRIPTION**

The application of herbicides to control undesired vegetation when mowing will not control target species. This involves application of selective chemical formulations by wiping. Not to include efforts that can be done under Activity 494.

**PURPOSE**

To selectively remove undesirable vegetation when mechanical or manual methods are not practical.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Apply prepared mix according to the Publications listed below.
3. Complete crew report before moving to the next site.
4. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

***All referenced publications shall be current edition with supplements***

3. Florida Statutes; Chapter 5E-2, 5E-9 FAC; Florida Statutes 16C-20 Rules of F.D.E.P.; Florida Pesticide Law & Rules, Chapter 487; Aquatic Plant Control Permits, Chapter 369.2.
5. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
6. BT-07-0004, Herbicide Program Update Workshop.
Refer to Vegetation and Aesthetics element under “Turf Conditions”:


No more than a cumulative 4.6 m² (50 sq. ft.) of bare ground should be present in the turf evaluation area or this characteristic does not meet desired maintenance conditions. Bare ground is defined as any single area 0.5 m² (5 sq. ft.) or more with no evidence of vegetation. Purposely stabilized areas (limerock, shell, etc.) shall not be considered as bare ground and not included in the turf evaluation.

METHOD OF REPORTING

Report hectares (acres) of mix applied.

REPORTING UNITS = hectares (acres)

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<tr>
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<th>NO.</th>
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<td>3120</td>
<td>1</td>
<td>Diesel Tractor with</td>
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<tr>
<td>9740</td>
<td>1</td>
<td>OMST - I</td>
<td>3205</td>
<td>1</td>
<td>Wiper Applicator</td>
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<tr>
<td></td>
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<td>0520</td>
<td>1</td>
<td>3/4 Ton Pickup w/Arrow Board</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4020</td>
<td>1</td>
<td>Trailer (18,000 lb.)</td>
</tr>
</tbody>
</table>

Safety and traffic control assistance as required

SMALL TOOLS

Spray Accessories
Various Hand Tools
Portable Eye Wash Station
Hand Held Wick Applicator
Personal Safety Equipment
Safety Work Signs

MATERIAL

Litter Bags
Herbicides
Additives

EFFECTIVE DATE:
July 1, 1996
Revised January, 1997

APPROVED BY
State Maintenance Engineer
FLORIDA DEPARTMENT OF TRANSPORTATION
MAINTENANCE MANAGEMENT SYSTEM
ROUTINE MAINTENANCE ACTIVITY

<table>
<thead>
<tr>
<th>GRAFFITI REMOVAL</th>
<th>MMS ACTIVITY: 540</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MRP: TRAFFIC SERVICES</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Removal (by paint or chemicals) of unsightly markings from bridges, barrier walls, signs and other structures within the right-of-way. Does not include the efforts of washing signs (Activity 522).

**PURPOSE**

To maintain the aesthetic quality of the State Highway System and the readability of signs. To remove undesirable distractions from the roadway environment.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Paint over or apply chemicals to the defaced areas to restore to a like original condition. If painting is necessary, use a shade that approximates the color of the surrounding area.
3. Clean up work site, and dispose of any hazardous materials or rags in an approved area.
4. Complete crew report before moving to the next site.
5. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

***All referenced publications shall be current edition with supplements***

1. Manual on Uniform Traffic Control Devices (MUTCD)
2. FDOT Roadway and Traffic Design Standard Index 600 Series.
3. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3)
MRP CRITERIA

Refer to Traffic Services element "signs less than or equal to 2.79 m² (30 sq. ft.) and signs greater than 2.79 m² (30 sq. ft.)"

Signs shall be reflective and possess sufficient contrast to convey message and function as intended on day or night inspection.

≤ 2.79 m² (30 sq. ft.) - 95% of the signs are functioning as intended
> 2.79 m² (30 sq. ft.) - 85% of the signs are functioning as intended

METHOD OF REPORTING

1. Measure and report the area restored to the nearest hundredth.
2. Use the following formula; length (m) x width (m) = m², or length (ft.) X width (ft.) = sq. ft.
3. Refer to conversion chart no. 6 - m (3).

REPORTING UNITS = Square meters (square feet)

<table>
<thead>
<tr>
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<th>EQUIPMENT</th>
</tr>
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<tbody>
<tr>
<td>CLASS CODE</td>
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<tr>
<td>9740</td>
<td>1</td>
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<tr>
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</tbody>
</table>

SMALL TOOLS

Various Hand Tools
Paint Brushes and Rollers
Rags
Measuring Devices
Ladder
Drop Cloth
Personal Safety Equipment
Work Signs and Safety Equipment

MATERIAL

Litter Bags
Paint (Non-lead)
Water
Chemicals (Non-Toxic)

EFFECTIVE DATE

July 1, 1996

APPROVED BY

[Signature]
Maintenance Engineer
INTERMEDIATE MACHINE MOWING

MMS ACTIVITY : 484
MRP: VEGETATION and AESTHETICS

DESCRIPTION

The intermediate machine mowing of areas (using mowers greater than 1 m (40") and less than 2 m (7') too difficult to mow with larger mowers and not practical for small mowers.

PURPOSE

To improve the safety, appearance and drainage of the highway facility.

SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Service equipment for intermediate mowing operations.
3. Pick up litter prior to mowing.
4. Proceed with cutting operations in accordance with established procedures and appropriate publication listed below.
5. Complete crew report before moving to new site.
6. Move work signs and safety equipment to new site.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600 Series
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
7. Turf Management, Self-Study BT 07-0013.
FLORIDA DEPARTMENT OF TRANSPORTATION
MAINTENANCE MANAGEMENT SYSTEM
ROUTINE MAINTENANCE ACTIVITY

MISCELLANEOUS SLOPE AND DITCH REPAIR

MMS ACTIVITY: 437
MRP: ROADSIDE and DRAINAGE

DESCRIPTION

Repair of slopes in cut or fill sections around retaining wall and large erosion areas in ditches where problem is outside the realm of normal shoulder, slope or ditch maintenance. Report fertilizing, seeding and mulching to Activity 435. Report Sodding to Activity 433.

PURPOSE

To protect the roadway, eliminate drainage problems and restore proper grade of slope and ditch.

SCHEDULING FREQUENCY

As determined by the Work Needs Survey

RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Repair slopes and ditches in accordance with specifications, standards, special provision and training resources listed below.
3. Clean up work site.
4. Complete crew report before moving to next site.
5. Pick up work signs and other safety equipment.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current with supplements ***

1. Manual on Uniform Traffic Control Devices (MUTCD)
2. FDOT Roadway Traffic Design Standard - Index 104, 105, 577, 281, & 600 Series
3. FDOT Standard Specifications - Section 577
5. Maintenance Rating Program Manual (Procedure No. 870-065-002)
FLORIDA DEPARTMENT OF TRANSPORTATION
MAINTENANCE MANAGEMENT SYSTEM
ROUTINE MAINTENANCE ACTIVITY

<table>
<thead>
<tr>
<th>HIGHWAY LIGHTING</th>
<th>MMS ACTIVITY: 787</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAINTENANCE</td>
<td>MRP: TRAFFIC SERVICES</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Make repairs to the highway lighting system to keep it at an operational level. This will include both routine maintenance and repairs for knock downs, lightning damage and other outages.

**PURPOSE**

To maintain a lighting system that will service the needs of the driver and to protect the investment in the system.

**SCHEDULING FREQUENCY**

A patrol of the system will be made a minimum of every 14 days and repair work will be determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Perform routine maintenance observations as necessary.
3. Repair or replace lighting equipment in accordance with established and appropriate publications listed below.
4. Clean up work site.
5. Complete crew report before moving to new site.
6. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600, 17500 thru 17505 series.
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
MRP CRITERIA

Refer to Traffic Services Element under “Lighting”.

90% of the total luminaries for both sign and highway lightning are functioning as intended.

METHOD OF REPORTING

1. Number of workers x hours worked = total hours (to include safety hours worked).
2. Report to the nearest hundredth (1.00, 0.75, 0.50, 0.25)
3. Refer to conversion chart no. 2

REPORTING UNITS = hours

<table>
<thead>
<tr>
<th>CLASS CODE</th>
<th>NO.</th>
<th>SKILL CLASS</th>
<th>FLEET CODE</th>
<th>NO.</th>
<th>EQUIPMENT DESCRIPTION</th>
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<tbody>
<tr>
<td>9760</td>
<td>1</td>
<td>OMST - III</td>
<td>1220</td>
<td>1</td>
<td>Aerial Elbow, Truck Mounted (Mtd. 600 lb. 45 ft. Reach) Bucket Truck As Needed</td>
</tr>
<tr>
<td>9740</td>
<td>1</td>
<td>OMST I</td>
<td></td>
<td></td>
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</tr>
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</table>

Safety and traffic control assistance as required

SMALL TOOLS

Volt/OHM multi-meter
Miscellaneous hand tools
Work signs and safety equipment
Personal Safety Equipment

MATERIAL

Varies

EFFECTIVE DATE: July 1, 1996

APPROVED BY

State Maintenance Engineer
MOTORIST AID CALL BOX SYSTEM  
SERVICE AND REPAIR  

MMS ACTIVITY : 779
MRP: NONE

DESCRIPTION

All work performed on the Motorist Aid Call Box system.

PURPOSE

To assure the reliable operation of the Motorist Aid Call Box System which serves to assist the motoring public.

SCHEDULING FREQUENCY

Call Boxes will be serviced every 45 days and other related components as determined by the Work Needs Survey.

RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Perform necessary testing in accordance with established and appropriate publications listed below.
3. Service units and replace components in accordance with established and appropriate publications listed below.
4. Clean up work site.
5. Complete crew report before moving to new site.
6. Pick up work signs and other safety equipment.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600.
3. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
**ACTIVITY NO.** 779

**MRP CRITERIA**

NONE

**METHOD OF REPORTING**

Report number of call boxes serviced or repaired.

**REPORTING UNITS =** each

<table>
<thead>
<tr>
<th>CLASS CODE</th>
<th>NO.</th>
<th>SKILL CLASS</th>
<th>FLEET CODE</th>
<th>NO.</th>
<th>EQUIPMENT DESCRIPTION</th>
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<tbody>
<tr>
<td>9760</td>
<td>1</td>
<td>OMST - III</td>
<td>0311</td>
<td>1</td>
<td>Long Wheelbase Van</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Safety and traffic control assistance as required</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SMALL TOOLS**

- Wattmeter
- Voltmeter
- Communications monitor
- AC voltmeter
- Midi-console
- Loop back translator
- Dual trace storage oscilloscope
- Frequency counter
- Two way radio on FHP frequency
- Call box test rig
- 72 MHZ test receiver
- Audio frequency generator
- Inverter power supply
- Miscellaneous hand and power tools
- Personal Safety Equipment

**MATERIAL**

- Aluminum poles
- Signs
- Concrete
- Bolts
- Electronic components

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY**

State Maintenance Engineer
REST AREA MAINTENANCE | MMS ACTIVITY: 544
MRP: NONE

DESCRIPTION
To include all activities related to the general servicing, cleaning and maintenance of rest areas or wayside parks and fishing catwalks. This includes cleaning tables and restrooms, picking up debris and litter in the area, collecting garbage from containers, mowing, etc.

PURPOSE
To maintain a desirable appearance and sanitary condition in rest areas.

SCHEDULING FREQUENCY
Activities in the rest area should be scheduled as often as necessary to maintain the facility in a neat and clean appearance for the traveling public.

RECOMMENDED WORK SEQUENCE
1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Perform janitorial type duties cleaning restrooms and tables.
3. Pick up any debris and litter in the area and insure proper disposal.
4. Mow grass to within established and approved publications as listed below.
5. Clean up work site.
6. Complete crew report before moving to new site.
7. Pick up work signs and other safety equipment.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES
*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 530 and 600.
4. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
ACTIVITY NO. 544

MRP CRITERIA

NONE

METHOD OF REPORTING

1. Number of workers x hours worked = total hours (to include safety hours worked).
2. Report to the nearest hundredth (1.00, 0.75, 0.50, 0.25)
3. Refer to conversion chart no. 2

REPORTING UNITS = hours

<table>
<thead>
<tr>
<th>CLASS CODE</th>
<th>NO.</th>
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<th>FLEET CODE</th>
<th>NO.</th>
<th>EQUIPMENT DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>9750</td>
<td>1</td>
<td>OMST - II</td>
<td>1100</td>
<td>1</td>
<td>Crew Cab Truck , 2 Ton</td>
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<tr>
<td>9740</td>
<td>3</td>
<td>OMST - I</td>
<td></td>
<td></td>
<td>Mowing Equipment As Needed</td>
</tr>
</tbody>
</table>

Safety and traffic control assistance as required

SMALL TOOLS

Various small hand tools
Personal Safety Equipment
Work Signs and Safety Equipment
Power Hedger
Push Mower
Edger
Mechanical Weed Cutter

MATERIAL

Litter bags
Cleaning Items

EFFECTIVE DATE:

July 1, 1996

APPROVED BY

State Maintenance Engineer
**FLORIDA DEPARTMENT OF TRANSPORTATION**  
**MAINTENANCE MANAGEMENT SYSTEM**  
**ROUTINE MAINTENANCE ACTIVITY**

| RAISED PAVEMENT MARKER REPLACEMENT | MMS ACTIVITY: 537  
MRP: TRAFFIC SERVICES |
|-------------------------------------|------------------------|

**DESCRIPTION**

Installation or removal of raised pavement markers.

**PURPOSE**

Provide daytime and nighttime delineation of travel lanes.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey (daytime and nighttime survey).

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Determine location for placement of markers in accordance with established and appropriate publications listed below.
3. After removing defective raised pavement marker(s), use proper method for cleaning pavement areas to provide a good surface to install markers.
4. Place markers in accordance with established and appropriate publications listed below.
5. Use traffic cones to protect markers from traffic until adhesive is dry, if necessary.
6. Clean up work site.
7. Complete crew report before moving to new site.
8. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600, and 17352 series.
3. FDOT Standard Specifications for Roadway and Bridge construction Section 706 thru 707.
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
**ACTIVITY NO.** 537

**MRP CRITERIA**

Refer to Traffic Services Element under “Raised Pavement Markers”.

70% of required markers must be functional (reflective). No more than 36.6 m (120’) of continuous centerline or lane line can be without a reflective marker.

**METHOD OF REPORTING**

Report the number of raised pavement markers installed or removed.

**REPORTING UNITS =** each

<table>
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<tr>
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<th>EQUIPMENT</th>
</tr>
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<td>9740</td>
<td>3</td>
</tr>
<tr>
<td></td>
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</table>

**Safety and traffic control assistance as required**

**SMALL TOOLS**

Small hand tools
Brooms
Putty knife
Portable adhesive dispensing unit
Work signs and safety equipment
Personal Safety Equipment

**MATERIAL**

Raised pavement markers
Epoxy or bitumen adhesive
Thinner
Litter bags

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY**

State Maintenance Engineer
<table>
<thead>
<tr>
<th>PAVEMENT SYMBOLS</th>
<th>MMS ACTIVITY: 534</th>
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<tbody>
<tr>
<td><strong>DESCRIPTION</strong></td>
<td>MRP: TRAFFIC SERVICES</td>
</tr>
<tr>
<td>Installation, refurbishing, or removal of symbols, school markings, railroad markings, crosswalks, stop bars, pavement arrows and related traffic control markings.</td>
<td></td>
</tr>
<tr>
<td><strong>PURPOSE</strong></td>
<td></td>
</tr>
<tr>
<td>To be used in conjunction with overhead and roadside signs to convey warnings or information to the motorist without diverting attention from the roadway.</td>
<td></td>
</tr>
<tr>
<td><strong>SCHEDULING FREQUENCY</strong></td>
<td></td>
</tr>
<tr>
<td>As determined by the Work Needs Survey.</td>
<td></td>
</tr>
<tr>
<td><strong>RECOMMENDED WORK SEQUENCE</strong></td>
<td></td>
</tr>
<tr>
<td>1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.</td>
<td></td>
</tr>
<tr>
<td>2. Establish location for symbol installation, refurbishing, or removal.</td>
<td></td>
</tr>
<tr>
<td>3. Clean area with broom prior to placement.</td>
<td></td>
</tr>
<tr>
<td>4. Place stencil on area to be marked.</td>
<td></td>
</tr>
<tr>
<td>5. Plastic: Apply thermoplastic compound. Add glass beads as required.</td>
<td></td>
</tr>
<tr>
<td>Paint: Apply paint to area. Apply glass beads as required.</td>
<td></td>
</tr>
<tr>
<td>Tape: Apply primer, apply tape symbol, roll tape with brush roller.</td>
<td></td>
</tr>
<tr>
<td>6. Protect symbols during installation period with traffic cones or other devices.</td>
<td></td>
</tr>
<tr>
<td>7. Clean up work site.</td>
<td></td>
</tr>
<tr>
<td>8. Complete crew report before moving to new site.</td>
<td></td>
</tr>
<tr>
<td>9. Pick up work signs and other safety equipment.</td>
<td></td>
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</tbody>
</table>

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600, 17344, 17345, and 17346 series.
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
MRP CRITERIA

Refer to Vegetation and Aesthetics element under “Curb/Sidewalk Edge” and “Turf Conditions”:

♦ Chemically control the encroachment of grass and/or weeds more than 152 mm (6") onto the sidewalk or curb for more than 3.0 m (10').

No more than a cumulative 4.6 m² (50 Sq. Ft.) of bare ground should be present in the turf evaluation area or this characteristic does not meet desired maintenance conditions. Bare ground is defined as any single area 0.5 m² (5 Sq. Ft.) or more with no evidence of vegetation. Purposely stabilized areas (limerock, shell, etc.) shall not be considered as bare ground and not included in the turf evaluation.

METHOD OF REPORTING

Report liters (gallons) of mix applied.

REPORTING UNITS = liters (gallons)

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<td>9740</td>
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</table>

SMALL TOOLS

Spray Accessories
Various Hand Tools
Back Pack/Pump-up Garden Sprayer
Squeeze Type Spot Gun
Basal Injector
Portable Eye Wash Station
Personal Safety Equipment
Safety Work Signs

MATERIAL

Litter Bags
Herbicides
Additives

EFFECTIVE DATE:

July 1, 1996

APPROVED BY

State Maintenance Engineer
EDGING AND SWEEPING  |  MMS ACTIVITY: 545
MRP: VEGETATION and AESTHETICS

**DESCRIPTION**
Removal of vegetation and debris from the curb, gutter, sidewalk, and pavement edges.

**PURPOSE**
Provide a pleasing appearance to roadway and to remove vegetation and debris before it becomes unsightly or creates a safety or drainage problem.

**SCHEDULING FREQUENCY**
As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**
1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Edge roadways, paved shoulders, curb, gutter, and sidewalk using a tractor mounted or power edger.
3. Remove material by manual or mechanical and/or shoveling.
4. Load material and haul to an approved site.
5. Pick up litter and place into litter bags and clean up work site.
6. Complete crew report before moving to the next site.
7. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index 600 Series.
4. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
MRP CRITERIA

Refer to Vegetation and Aesthetics elements under:

- Curb/Sidewalk Edging - There is no encroachment of grass and debris for more than 152 mm (6") onto the curb or sidewalk for more than a continuous 3.0 m (10') or no deviation of soil or more than 102 mm (4") above or 51 mm (2") below the top of curb and sidewalk for more than 3.0 m (10').
- Traffic Services Standard for: Edge Striping - 70% of each line must function as intended. Grass growing over edge of lines will cause striping to fail MRP Standards.

METHOD OF REPORTING

1. Report the total length of edging for roadway, paved shoulders, curb, gutter and/or sidewalk actually completed.
2. Report to the nearest hundredth.
3. Refer to conversion chart no. 5 -m, (4)

REPORTING UNITS = kilometers (miles)

<table>
<thead>
<tr>
<th>CLASS CODE</th>
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<td>9760</td>
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<td>OMST - III</td>
<td>1100</td>
<td>1</td>
<td>2-Ton Crew Cab</td>
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<tr>
<td>9740</td>
<td>3</td>
<td>OMST - I</td>
<td>3120</td>
<td>1</td>
<td>55 H.P. Tractor w/ curb edger</td>
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<td></td>
<td></td>
<td></td>
<td>2315</td>
<td>1</td>
<td>Skid Loader</td>
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<tr>
<td></td>
<td></td>
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<td>4080</td>
<td>1</td>
<td>Trailer</td>
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Safety and traffic control assistance as required

<table>
<thead>
<tr>
<th>SMALL TOOLS</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Various Hand Tools</td>
<td>Litter Bags</td>
</tr>
<tr>
<td>Hand Brooms (Road)</td>
<td>Gas/oil mix</td>
</tr>
<tr>
<td>Edger (Gasoline Powered)</td>
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</tr>
<tr>
<td>Power Weed-whacker</td>
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</tr>
<tr>
<td>Gas powered Blower</td>
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</tr>
<tr>
<td>Wheel Barrow</td>
<td></td>
</tr>
<tr>
<td>Shovels</td>
<td></td>
</tr>
<tr>
<td>Personal Safety Equipment</td>
<td></td>
</tr>
<tr>
<td>Work Signs and Safety Equipment</td>
<td></td>
</tr>
</tbody>
</table>

EFFECTIVE DATE:  

July 1, 1996

APPROVED BY:  

W. J. Allbaugh  
State Maintenance Engineer
ROUTINE MAINTENANCE ACTIVITIES

TRAFFIC SERVICES
ACTIVITY NO. 534

MRP CRITERIA

Refer to Traffic Services Element under “Pavement Symbols”.

DAYTIME: 70% of the cumulative symbol area must function as intended.

NIGHTTIME: 70% of the cumulative symbol area must be reflective for a distance of 45.7 m (150’) when using low beam headlights.

METHOD OF REPORTING

1. Report the square meters (square feet) of pavement symbols installed, refurbished, or removed to the nearest hundredth.
2. Refer to conversion chart nos. 18 - m, (18), 6 - m, (3).

REPORTING UNITS = Square meter squared (square feet)

<table>
<thead>
<tr>
<th>PERSONNEL</th>
<th>EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
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<th>FLEET CODE</th>
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<td>9760</td>
<td>1</td>
<td>OMST - III</td>
<td>0540</td>
<td>1</td>
<td>Crew Cab Truck with Symbol</td>
</tr>
<tr>
<td>9740</td>
<td>3</td>
<td>OMST - I</td>
<td>3211</td>
<td>1</td>
<td>Body and Flashing Arrow</td>
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<td>Safety and traffic control assistance as required</td>
<td>3660</td>
<td>1</td>
<td>Portable Striping Machine</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>4080</td>
<td>1</td>
<td>Line Remover</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>9270</td>
<td>1</td>
<td>Utility Trailer</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Flashing Arrow</td>
</tr>
</tbody>
</table>

SMALL TOOLS

Small hand tools
Brooms
Putty knife
Thermoplastic unit
Stencils
Metric Measuring Devices
Work signs and safety equipment
Personal Safety Equipment

MATERIAL

Litter bags
Thermoplastic
Glass beads
LP gas
Paint
Tape
Tape primer
Grinder blades

EFFECTIVE DATE: July 1, 1996

APPROVED BY

State Maintenance Engineer
# FLORIDA DEPARTMENT OF TRANSPORTATION
MAINTENANCE MANAGEMENT SYSTEM
ROUTINE MAINTENANCE ACTIVITY

<table>
<thead>
<tr>
<th>PAVEMENT STRIPING (LARGE MACHINE)</th>
<th>MMS ACTIVITY: 532</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MRP: TRAFFIC SERVICES</td>
</tr>
</tbody>
</table>

## DESCRIPTION
Machine striping of longitudinal markings on pavement surface; includes paint lines and other material used for this purpose.

## PURPOSE
To provide the visual information needed by the driver to steer a vehicle safely in a variety of situations.

## SCHEDULING FREQUENCY
As determined by the Work Needs Survey.

## RECOMMENDED WORK SEQUENCE
1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Service equipment necessary for striping operations.
3. Load necessary material for entire day’s operation.
4. Survey roadways to be striped to determine traffic conditions.
5. Begin striping operations and adjust equipment as necessary to provide a finished product according to established and appropriate publications listed below.
6. Clean up work site.
7. Complete crew report before moving to new site.
8. Pick up work signs and other safety equipment.

## SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 17344, 17345, 17346 and 600 series.
3. FDOT Standard Specifications for Roadway and Bridge Construction 709, 710, 711 and 713 series.
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
**ACTIVITY NO.** 532

**MRP CRITERIA**

Refer to Traffic Services Element under "Striping".

**DAYTIME:** Each line must have 70% of the length and width functioning as intended.

**NIGHTTIME:** With low beam headlights, at least 76 mm (3") of the width of each line must be reflective for 45.7 m (150')

**METHOD OF REPORTING**

1. Report the line length striped to the nearest hundredth.
2. Refer to conversion chart no. 5 - m, (4), 17 - m, (17).

**REPORTING UNITS = line kilometers (line miles)**

<table>
<thead>
<tr>
<th>CLASS CODE</th>
<th>NO.</th>
<th>SKILL CLASS</th>
<th>FLEET CODE</th>
<th>NO.</th>
<th>EQUIPMENT DESCRIPTION</th>
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</thead>
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<tr>
<td>9760</td>
<td>3</td>
<td>OMST - III</td>
<td>0311</td>
<td>1</td>
<td>Club Wagon</td>
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<tr>
<td>9750</td>
<td>1</td>
<td>OMST - II</td>
<td>1310</td>
<td>1</td>
<td>Centerline Support Truck</td>
</tr>
<tr>
<td>9740</td>
<td>1</td>
<td>OMST - I</td>
<td>1301</td>
<td>1</td>
<td>Centerline Truck</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4410</td>
<td>1</td>
<td>Follow truck w/attenuator w/arrow</td>
</tr>
</tbody>
</table>

*Safety and traffic control assistance as required*

**SMALL TOOLS**

- Brooms
- Shovels
- Hand agitator
- Small hand tools
- Measuring Devices
- Work signs and safety equipment
- Personal Safety Equipment

**MATERIAL**

- Traffic paint or other material
- Glass beads
- Paint solvent (if required)
- Litter bags

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY**

State Maintenance Engineer
DELINERATORS AND TYPE 2 OBJECT MARKERS | MMS ACTIVITY: 519
MRP: TRAFFIC SERVICES

DESCRIPTION
Installation, replacement, repair and maintenance of flexible and nonflexible roadside delineators and Type 2 Object Markers.

PURPOSE
To maintain a system of delineators to guide motorists and other facility users of the roadway alignment and to mark roadside objects.

SCHEDULING FREQUENCY
As determined by the Work Needs Survey.

RECOMMENDED WORK SEQUENCE
1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Install, replace, or repair delineators and markers in accordance with established and appropriate standards.
3. Clean up work site.
4. Complete crew report before moving to new site.
5. Pick up work signs and other safety equipment.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES
***All referenced publications shall be current edition with supplements ***

3. FDOT Standard Specifications for Road & Bridge Construction - Section 705 & 993.
5. BT-07-0022 -Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
MRP CRITERIA

Refer to Traffic Services Element under "Object Markers".

80% of the combined total of delineators and object markers must function as intended for height, horizontal placement, condition and reflectivity.

METHOD OF REPORTING

1. Report the number of units installed, replaced or repaired to the nearest hundredth.
2. Refer to conversion chart no. 14

REPORTING UNITS = each

<table>
<thead>
<tr>
<th>PERSONNEL</th>
<th>EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CLASS CODE</strong></td>
<td><strong>NO.</strong></td>
</tr>
<tr>
<td>9760</td>
<td>1</td>
</tr>
<tr>
<td>9740</td>
<td>1</td>
</tr>
</tbody>
</table>

SMALL TOOLS

- Miscellaneous hand tools
- Post driver
- Work signs and other safety devices
- Measuring Devices
- Personal Safety Equipment

MATERIAL

- Delineators
- Posts
- Miscellaneous hardware
- Litter bags

EFFECTIVE DATE:

July 1, 1996

APPROVED BY

State Maintenance Engineer
# FLORIDA DEPARTMENT OF TRANSPORTATION
MAINTENANCE MANAGEMENT SYSTEM
ROUTINE MAINTENANCE ACTIVITY

<table>
<thead>
<tr>
<th>SIGNS, Ground Signs 2.79 m² (30 sq. ft.) or Less</th>
<th>MMS ACTIVITY : 520</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MRP: TRAFFIC SERVICES</td>
</tr>
</tbody>
</table>

## DESCRIPTION

Installation, replacement, repair, overlay and maintenance of signs, Type 1 & 3 object markers, sign posts, and the repair and maintenance of small structures.

## PURPOSE

To maintain a system of signs to regulate, warn, and guide the motorist and other facility users.

## SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

## RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Install, replace, repair, or overlay small signs and Type 1 & 3 object markers, sign posts, and small sign structures as required in accordance with established and appropriate publications listed below.
3. Clean up work site.
4. Complete crew report before moving to new site.
5. Pick up work signs and other safety equipment.

## SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600, 9535 thru 17356 Series.
5. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
MRP CRITERIA

Refer to Traffic Services element under “Signs Less Than or Equal to 2.79 m² (30 sq. ft.).”

95% of signs must function as intended for height, horizontal placement, condition, and reflectivity.

METHOD OF REPORTING

Report the equivalent units to the nearest hundredth as determined by referring to conversion chart nos. 14 and 15.

<table>
<thead>
<tr>
<th>CLASS CODE</th>
<th>NO.</th>
<th>SKILL CLASS</th>
<th>FLEET CODE</th>
<th>NO.</th>
<th>EQUIPMENT DESCRIPTION</th>
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<tbody>
<tr>
<td>9760</td>
<td>1</td>
<td>OMST - III</td>
<td>1201</td>
<td>1</td>
<td>Sign Truck, Platform</td>
</tr>
<tr>
<td>9740</td>
<td>1</td>
<td>OMST - I</td>
<td>1202</td>
<td>1</td>
<td>Sign Truck, Hydraulic Boom</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Safety and traffic control assistance as required</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SMALL TOOLS

- Miscellaneous hand tools
- Post hole diggers
- Tamps
- Shovels
- Stepladder
- Mechanical auger
- Mechanical driver
- Measuring Devices
- Miscellaneous power tools
- Work signs and safety equipment
- Personal Safety Equipment

MATERIAL

- Signs
- Posts
- Miscellaneous hardware
- Pre-mixed concrete
- Litter bags

EFFECTIVE DATE:

July 1, 1996

APPROVED BY

[Signature]
State Maintenance Engineer
## LARGE SIGNS [GROUND SIGNS Over 2.79 m² (30 sq. ft.)]

### MMS ACTIVITY: 521

### MRP: TRAFFIC SERVICES

### DESCRIPTION

Replacement, repair, overlay of large ground signs over 2.79 m² (30 sq. ft.) and all overlane and cantilever signs. Also includes bolt tightening and torquing. **Installation** of new large sign structures should be charged to special project job numbers.

### PURPOSE

To safely control and expedite traffic movement and assist the motorist with information on routing, directions and destinations.

### SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

### RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards,
2. Install, replace, repair, or overlay large signs including all overlane and cantilever signs as required in accordance with established and appropriate publications listed below.
3. Clean up work site.
4. Complete crew report before moving to new site.
5. Pickup work signs and other safety equipment.

### SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600, 9535 thru 17356 Series.
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
6. FDOT sign installation manual.
MRP CRITERIA

Refer to Traffic Services element under “Signs Greater Than 2.79 m² (30 sq. ft.)”.

85% of signs must function as intended for height, horizontal placement, condition, and reflectivity.

METHOD OF REPORTING

1. Report the units replaced or repaired to the nearest hundredth in the same manner as for Standard 520, using conversion chart nos. 14 and 15.
2. A panel is defined as a construction panel or post. All assembly time should be reported to this activity.
4. Any miscellaneous work done on any concrete footing, overlane, cantilever structure, or cable replacement is part of this activity.
5. Report post bolt torquing as post straightening using conversion chart no. (14).

<table>
<thead>
<tr>
<th>REPORTING UNITS</th>
<th>units</th>
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<table>
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<th>FLEET CODE</th>
<th>NO.</th>
<th>EQUIPMENT DESCRIPTION</th>
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<tbody>
<tr>
<td>9760</td>
<td>1</td>
<td>OMST - III</td>
<td>1202</td>
<td>1</td>
<td>Sign Truck, Hydraulic Boom</td>
</tr>
<tr>
<td>9740</td>
<td>3</td>
<td>OMST - I</td>
<td>0520</td>
<td>1</td>
<td>Pickup with Flashing Arrow</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1220</td>
<td>1</td>
<td>45' Bucket Truck</td>
</tr>
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<td></td>
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<td></td>
<td></td>
<td><strong>Safety and traffic control assistance as required</strong></td>
</tr>
</tbody>
</table>

SMALL TOOLS

- Miscellaneous power tools
- Miscellaneous hand tools
- Ladder
- Personal Safety Equipment
- Measuring Devices
- Work sign and safety equipment

MATERIAL

- Signs
- Miscellaneous hardware
- Litter bags

EFFECTIVE DATE: July 1, 1996

APPROVED BY

[Signature]
State Maintenance Engineer
### SIGN CLEANING

<table>
<thead>
<tr>
<th>MMS ACTIVITY : 522</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRP: TRAFFIC SERVICES</td>
</tr>
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</table>

#### DESCRIPTION

The routine cleaning of signs with a detergent and water solution. Not to include roadside delineators.

#### PURPOSE

To clean the sign face to prolong the serviceable life of the sign and increase visibility.

#### SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

#### RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Standards.
2. Clean both small and large signs by applying water and a mild detergent to the face area of signs, brushing it with a soft bristle brush, and rinsing the area with clean water.
3. Complete crew report at the end of each site and prior to moving to new site.
4. Pick up work signs and other safety equipment.

#### SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 600, 9535 thru 17356 Series.
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
ACTIVITY NO.  522

MRP CRITERIA

Refer to Traffic Services element under “Signs greater than 2.79 m² (30 sq. ft.)” and “Signs less than or equal to 2.79 m² (30 sq. ft.).”

85% of “Signs greater than 2.79 m² (30 sq. ft.)” and 95% of “Signs less than or equal to 2.79 m² (30 sq.ft.)” must be reflective and possess sufficient contrast to convey message and function as intended on day and night inspection. All signs shall show the same shape and color both by day or night.

METHOD OF REPORTING

1. Report each unit washed.
2. Each is defined as a panel described in MMS Activity 520 and 521.
3. Refer to conversion chart nos. 15 - m, (15), 16 - m, (16).

REPORTING UNITS = units

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<td>9740</td>
<td>2</td>
<td>OMST - I</td>
<td>0520</td>
<td>1</td>
<td>3/4 Ton Pickup Truck</td>
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</table>

Safety and traffic control assistance as required

SMALL TOOLS

Soft bristle brushes
Sprayer
Ladder
Personal Safety Equipment

MATERIAL

Water
Detergent
Litter bags

EFFECTIVE DATE:        APPROVED BY

July 1, 1996

State Maintenance Engineer
<table>
<thead>
<tr>
<th>GUARDRAIL REPAIR</th>
<th>MMS ACTIVITY : 526</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRP: TRAFFIC SERVICES</td>
<td></td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Repair or replacement of damaged or deteriorated guardrail and components (blocks, bolts, reflectors, posts, etc.). New installation of (additional) guardrail should be charged to betterment projects.

**PURPOSE**

To redirect vehicles away from various obstructions or dropoffs adjacent to the travelway.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Remove defective sections of guardrail and/or components.
3. Repair or replace damaged sections as required in accordance with established and appropriate publications listed below.
4. Clean up work site.
5. Complete crew report before moving to new site.
6. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Index No. 400, 401, and 600 series.
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
7. Guardrail Inspection (Procedure No. 850-050-003).
ACTIVITY NO. 526

MRP CRITERIA

Refer to Traffic Services Element under “Guardrail”.

1. All posts, offset blocks, panels, and connection hardware shall be in place.
2. Height must be 533 mm (21") as measured from the center of the panel. Any section that is above or below the desired elevation, plus or minus 51 mm (2") for a continuous 7.6 m (25") does not meet desired conditions.
3. Miscellaneous repair of guardrail will be reported as follows: .3m (1 linear foot) production for every 3.8 m (12.5") of miscellaneous repair.

METHOD OF REPORTING

Report the length in meters (linear feet) for guardrail replaced, repaired, or realigned.

REPORTING UNITS = meters (linear feet)

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<td>1</td>
</tr>
<tr>
<td>9740</td>
<td>3</td>
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</tbody>
</table>

SMALL TOOLS

Post hole diggers
Tamps
Shovels
Miscellaneous
Mechanical auger
Air or hydraulic post driver
Measuring Devices
Work signs and safety equipment
Personal Safety Equipment

MATERIAL

Guardrail panels
Posts
Miscellaneous hardware
Litter bags

EFFECTIVE DATE:

July 1, 1996

APPROVED BY

State Maintenance Engineer
ROUTINE ATTENUATOR INSPECTION AND SERVICE

MMS ACTIVITY: 530
MRP: TRAFFIC SERVICES

DESCRIPTION

The uniform and timely inspection and service of all attenuator units on the State Highway System. Type I and Type II inspections will be conducted by qualified engineering personnel and be charged to Activity 197. Damaged attenuators requiring repairs should be reported to MMS Activity 531.

PURPOSE

To maintain the integrity of and maximize the performance potential of each attenuator.

SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Clean and remove sand, debris, or vegetation from around the attenuator.
3. Inspect for deterioration or damage of attenuator elements (refer to appropriate Type I or Type II inspection checklist).
4. Service unit and replace parts as appropriate according to established and appropriate publications listed below.
5. Clean up work site.
6. Complete crew report before moving to new site.
7. Pick up work signs and other safety equipment.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

1. Manual on uniform traffic control devices (MUTCD).
3. FDOT Standard Specifications for Roadway and Bridge construction 536, 538, and 993 series.
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
7. Reporting Attenuator Inventory and Inspection (Procedure No. 850-055-003).
**ACTIVITY NO.** 530

**MRP CRITERIA**

Refer to Traffic Services Element under “Attenuators”.

Each device must function as intended and has a type II inspection rating of good.

**METHOD OF REPORTING**

Report number of attenuators inspected and serviced.

| REPORTING UNITS | each |

<table>
<thead>
<tr>
<th>PERSONNEL</th>
<th>EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASS CODE</td>
<td>NO.</td>
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<td>9760</td>
<td>1</td>
</tr>
<tr>
<td>9740</td>
<td>1</td>
</tr>
</tbody>
</table>

**SMALL TOOLS**

- Generator
- Power drill
- Wrenches (box & ratchet)
- Grease gun
- Miscellaneous hand tools
- Chain or tape
- Shovels
- Brooms
- Water hose
- Rivet Gun
- Ratchet Puller
- Manufacturer’s Handbooks
- Work Signs and Safety Equipment
- Personal Safety Equipment

**MATERIAL**

- Water
- Sand
- Paint
- Litter bags
- Miscellaneous hardware
- Miscellaneous attenuator parts

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY**

State Maintenance Engineer
# FLORIDA DEPARTMENT OF TRANSPORTATION
MAINTENANCE MANAGEMENT SYSTEM
ROUTINE MAINTENANCE ACTIVITY

| ATTENUATOR REPAIR | MMS ACTIVITY : 531  
|                  | MRP: TRAFFIC SERVICES |

## DESCRIPTION
Repair to traffic attenuators due to accident damage or deterioration. The original installation of attenuators will be charged to Activity 993.

## PURPOSE
To provide highway safety for vehicular traffic.

## SCHEDULING FREQUENCY
As determined by the Work Needs Survey.

## RECOMMENDED WORK SEQUENCE
1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Repair, refurbish and/or replace attenuator components in accordance with manufactures guidelines and established/appropriate publications listed below.
3. Install components considered necessary to maintain or improve the system, i.e., debris skirts, improved tops, weather stripping, cartridge covers, flex-belt, etc. In according to established/appropriate publications listed below.
4. Clean up work site.
5. Complete crew report before moving to new site.
6. Pick up work signs and other safety equipment.

## SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

- FDOT Standard Specifications for Roadway and Bridge construction 993 series.
- BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).

*** All referenced publications shall be current edition with supplements ***
**ACTIVITY NO.** 531

**MRP CRITERIA**

Refer to Traffic Services Element under "Attenuators".

Each device must function as intended and has a type II inspection rating of good.

**METHOD OF REPORTING**

Report each attenuator repaired or replaced.

**REPORTING UNITS =** each

**PERSONNEL**

<table>
<thead>
<tr>
<th>CLASS CODE</th>
<th>NO.</th>
<th>SKILL CLASS</th>
<th>FLEET CODE</th>
<th>NO.</th>
<th>EQUIPMENT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>9760</td>
<td>1</td>
<td>OMST - III</td>
<td>1100</td>
<td>1</td>
<td>Crew Cab Truck with Truck Mounted Flashing Arrow</td>
</tr>
<tr>
<td>9740</td>
<td>3</td>
<td>OMST - I</td>
<td></td>
<td></td>
<td>Safety and traffic control assistance as required</td>
</tr>
</tbody>
</table>

**SMALL TOOLS**

- Wrenches
- Rivet gun
- Shovels
- Water hose
- Brooms
- Various hand tools as necessary
- Work signs and safety equipment
- Manufacturer's handbook(s)
- Ratchet puller
- Welder & cutting torch
- Measuring Devices
- Personal Safety Equipment

**MATERIAL**

- Sand
- Water
- Paint
- Litter bags
- Miscellaneous hardware
- Miscellaneous attenuator components

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY**

State Maintenance Engineer
ACTIVITY NO. 482

MRP CRITERIA

Refer to Vegetation and Aesthetics element under “Slope Mowing”.

No more than 2% of vegetation exceeds 610 mm (24”) in height for slope mowing areas defined in the FDOT mowing guide. Bahia seed stalks and decorative wild flowers excepted.

METHOD OF REPORTING

1. Report the areas cut to the nearest hundredth.
2. \[ \text{Length (m) x Height (m)} \text{ or } \text{Width (m)} = \text{hectares} \text{ or } \text{Length (ft) x Height (ft)} \text{ or } \text{Width (ft)} = \text{acres}\]

\[ 10,000 \text{ m}^2 \quad 43,560 \text{ sq. ft.} \]

3. Refer to conversion chart no. 8 - m, (8), 9 - m.

| REPORTING UNITS | hectares (acres) |

<table>
<thead>
<tr>
<th>PERSONNEL</th>
<th>EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASS CODE</td>
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<table>
<thead>
<tr>
<th>SMALL TOOLS</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brush hooks</td>
<td>Litter bags</td>
</tr>
<tr>
<td>Pitchforks</td>
<td></td>
</tr>
<tr>
<td>Measuring Devices</td>
<td></td>
</tr>
<tr>
<td>Work signs and safety equipment</td>
<td></td>
</tr>
<tr>
<td>Chain saw</td>
<td></td>
</tr>
<tr>
<td>Mechanical weed cutter</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous mechanics hand tools for on-the-job repair</td>
<td></td>
</tr>
<tr>
<td>Personal safety equipment</td>
<td></td>
</tr>
</tbody>
</table>

EFFECTIVE DATE: July 1, 1996

APPROVED BY

State Maintenance Engineer
MRP CRITERIA

Refer to vegetation and aesthetics element under "Roadside Mowing".

No more than 2% of vegetation exceeds 610 mm (24") on rural interstate, 457 mm (18") on urban interstate, and rural primary or 305 mm (12") on urban primary roadways. Bahia seed stalks and decorative wild flowers excepted.

METHOD OF REPORTING

1. Report the area mowed to the nearest hundredth.
2. Do not report overlapping or deadheading.
3. Length (m) x Width (m) = hectares or Length (ft)xWidth (ft.) = acres
   10,000 m² = 43,560 sq. Ft.
4. Refer to conversion chart no. 8 - m, (8), 9 - m.
5. If litter removal operations exceed 0.5 crew hours, report to Activity 541.

REPORTING UNITS = hectares (acres)

<table>
<thead>
<tr>
<th>CLASS CODE</th>
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<th>SKILL CLASS</th>
<th>FLEET CODE</th>
<th>NO.</th>
<th>EQUIPMENT DESCRIPTION</th>
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<tbody>
<tr>
<td>9740</td>
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<td>OMST - I</td>
<td>3100</td>
<td>1</td>
<td>Diesel Tractor</td>
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<tr>
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<td>3030</td>
<td>1</td>
<td>Mower 6' Flail Lift type</td>
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<tr>
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<td></td>
<td>4080</td>
<td>1</td>
<td>Utility Trailer - 5,000 lb. Min.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0520</td>
<td>1</td>
<td>3/4 Ton Pickup Truck</td>
</tr>
</tbody>
</table>

Safety and Traffic control assistance as required.

SMALL TOOLS

Miscellaneous mechanic hand tools for on-job repairs
Work signs and safety equipment
Push mower
Mechanical weed cutter (small)
Measuring Devices
Personal safety equipment

MATERIAL

Litter bags

EFFECTIVE DATE:    APPROVED BY:

July 1, 1996         State Maintenance Engineer
## CHEMICAL WEED AND GRASS CONTROL

<table>
<thead>
<tr>
<th>MMS ACTIVITY: 494</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRP: VEGETATION and AESTHETICS</td>
</tr>
</tbody>
</table>

### DESCRIPTION

The application (handgun, basal or cut stump) of herbicides to slopes, ditches, fence, guardrail, barrier wall, reinforced earthen walls, sidewalks, bridges, curb and gutter, obstructions, shoulders, and other areas not accessible to mowers. Not to include chemical applications within landscape or mitigation areas.

### PURPOSE

To control undesirable vegetation when mechanical or manual methods are not practical.

### SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

### RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Spray prepared mix according to Publications listed below.
3. Complete crew report before moving to the next site.
4. Pick up work signs and other safety equipment.

### SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

3. Florida Statutes, Chapter 5E-2, 5E-9 FAC; Florida Statutes 16C-20 Rules of F.D.E.P.; Florida Pesticide Law & Rules, Chapter 487; Aquatic Plant Control Permits, Chapter 369.2.
5. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
6. BT-07-0004, Herbicide Program Update Workshop
**SMALL MACHINE MOWING**

**MMS ACTIVITY:** 485  
**MRP:** VEGETATION and AESTHETICS

**DESCRIPTION**

Mowing the roadside with small hand or riding mowers having a cutting width of 1 m (40") or less.

**PURPOSE**

To improve the safety, appearance and drainage of the highway facility.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Standards.
2. Service equipment for small machine mowing.
3. Pick up litter prior to mowing.
4. Proceed with cutting operations in accordance with established procedures and appropriate publications listed below.
5. Complete crew report before moving to new site.
6. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**  

***All referenced publications shall be current edition with supplements***

2. FDOT Roadway and Traffic Design Standard Index No. 600 Series
5. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
MRP CRITERIA

Refer to vegetation and aesthetics element under “Roadside Mowing”.

No more than 2% of vegetation exceeds 610 mm (24") on rural interstate, 457 mm (18") on urban interstate, and rural primary or 305 mm (12") on urban primary roadways. Bahia seed stalks and decorative wild flowers excepted.

METHOD OF REPORTING

1. Report the area mowed to the nearest hundredth.
2. Do not report overlapping or deadheading.
3. \[\text{Length (m) } \times \text{Width (m)} = \text{hectares or Length (ft.) } \times \text{Width(ft.)} = \text{acres}\]
   
   \[10,000 \text{ m}^2 = 43,560 \text{ sq. ft.}\]
4. Refer to conversion chart no. 8 - m, (8), 9 - m.
5. If litter removal operations exceed 0.5 crew hours, report to Activity 541.

**REPORTING UNITS = hectares (acres)**

### PERSONNEL

<table>
<thead>
<tr>
<th>CLASS CODE</th>
<th>NO.</th>
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<th>FLEET CODE</th>
<th>NO.</th>
<th>EQUIPMENT DESCRIPTION</th>
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<tbody>
<tr>
<td>9740</td>
<td>2</td>
<td>OMST - I</td>
<td>3040</td>
<td>1</td>
<td>Self-Propelled Mower</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>0520</td>
<td>1</td>
<td>3/4 Ton Pickup Truck</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4080</td>
<td>1</td>
<td>Utility Trailer, Small</td>
</tr>
</tbody>
</table>

*Safety and Traffic Control assistance as required.*

### SMALL TOOLS

- Miscellaneous mechanical hand tools for on-job repairs
- Work signs and safety equipment
- Push mower
- Mechanical weed cutter (small)
- Measuring Devices
- Personal Safety Equipment

### MATERIAL

Litter bags

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY**

[Signature]

State Maintenance Engineer
ACTIVITY NO. 493

MRP CRITERIA

Refer to Vegetation and Aesthetics standard for "Landscaping":

Vegetation is maintained in a healthy, attractive condition.

METHOD OF REPORTING

1. Measure the total area worked and report in m² (square yards) to the nearest hundredth.
2. Use the following formula: length (m) x width (m) = m² or length (Ft.) x width (Ft.) = square yards
3. See conversion chart no. 6 - m (6).

REPORTING UNITS = meters squared (square yards)

<table>
<thead>
<tr>
<th>CLASS CODE</th>
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<th>EQUIPMENT DESCRIPTION</th>
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<td>3</td>
<td>OMST - I</td>
<td>4080</td>
<td>1</td>
<td>Utility Trailer</td>
</tr>
</tbody>
</table>

Safety and traffic control assistance as required

SMALL TOOLS

Various Hand Tools
Hedge Trimmers
Push/Self Propelled Mower
Shovels
Measuring Devices
Edger (Power)
Rakes
Mechanical Weed Cutter
Personal Safety Equipment
Work Signs and Safety Equipment

MATERIAL

Litter Bags
Fertilizer
Mulch
Plants

EFFECTIVE DATE: July 1, 1996

APPROVED BY: [Signature]
State Maintenance Engineer
FLORIDA DEPARTMENT OF TRANSPORTATION
MAINTENANCE MANAGEMENT SYSTEM
ROUTINE MAINTENANCE ACTIVITY

LANDSCAPED AREA MAINTENANCE

MMS ACTIVITY: 493
MRP: VEGETATION and AESTHETICS

DESCRIPTION

All efforts required for proper maintenance of landscaped areas. Includes litter removal, mowing, edging, fertilizing, weeding, mulching, etc. Not to include any efforts with the planting or maintenance of Wildflowers.

PURPOSE

To maintain and enhance the appearance of landscaped areas.

SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

RECOMMENDED WORK SEQUENCE

Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
- Remove litter.
- Perform necessary mowing, trimming, weeding, mulching, fertilizing, and replacing of plants, etc.
- Clean up work site.
- Complete crew report before moving to the next site.
- Pick up work signs and other safety equipment.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES
and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

Manual on Uniform Traffic Control Devices (MUTCD).
FDOT Roadway and Traffic Design Standard Indexes 545, 546, 580, 600 & 700 Series
FDOT Standard Specifications for Road & Bridge Construction - Sections 100-3, & 580
BT 07-0022 - Work zone Traffic Control for Maintenance and Utility Operations (Level 3).
Highway Landscape Beautification and Plan Review (Procedure No. 650-050-001).
WEED CONTROL (MANUAL)

MMS ACTIVITY : 487
MRP: VEGETATION and AESTHETICS

DESCRIPTION

Brush, weed and grass cutting 100 mm (4") or less in diameter performed with hand tools. Trimming or removal of vegetation greater than 100 mm (4") in diameter should be reported to Activity 492.

PURPOSE

To maintain the appearance, safety and drainage of the highway facility in areas that cannot be controlled by more economical means.

SCHEDULING FREQUENCY

As determined by the Work Needs Survey.

RECOMMENDED WORK SEQUENCE

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Cut only those areas that cannot be cut mechanically or controlled chemically.
3. Chip on site or load and haul cut vegetation to an approved disposal area.
4. Clean up work site.
5. Complete crew report before moving to the next site.
6. Pick up work signs and other safety equipment.

SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standards - Index 600.
3. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
**ACTIVITY 487**

**MRP CRITERIA:**

Refer to Vegetation/Aesthetics element, under "Turf Condition."
Turf in the mowing area is 75% free of undesired vegetation.

**METHOD OF REPORTING**

1. Report the total area mowed to the nearest hundredth.
2. Use \( \text{Length (m) \times Width (m)} = \text{hectares or } \frac{\text{Length (ft)}}{10,000 \text{ m}^2} \times \frac{\text{Width (ft)}}{43,560 \text{ sq. ft.}} = \text{acres} \)
3. Refer to conversion chart no. 8 - m, ( 8 ), 9 - m.

**REPORTING UNITS = hectares (acres)**

<table>
<thead>
<tr>
<th>PERSONNEL</th>
<th>EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3</td>
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<tr>
<td>9750</td>
<td>1</td>
</tr>
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</table>

*Safety and Traffic Control Assistance As Required*

**SMALL TOOLS**

- Swing Blades
- Brush Hooks
- Pitchforks
- Measuring Devices
- Work signs and safety Equipment
- Mechanical Weed Cutter ( small )
- Chain Saw
- Personal Safety Equipment
- Weed Eater
- Machete
- Rake

**MATERIAL**

- Litter Bags
- Gasoline
- Oil
- Other Material as Required

**EFFECTIVE DATE**

July 1, 1996

**APPROVED BY**

STATE MAINTENANCE ENGINEER
**MRP CRITERIA**

Refer to Vegetation and Aesthetics standard for "Tree Trimming":

There is no encroachment of trees, tree limbs or vegetation in or over travelway or clear zone, lower than 4.4 m (14.5') or lower than 3.0 m (10') over sidewalks. If there is dead or dying vegetation next to or over a travelway or clear zone that could fall or otherwise present a hazard to pedestrians or vehicular traffic, then this characteristic does not meet maintenance conditions.

**METHOD OF REPORTING**

1. Number of personnel times the hours worked (regular + safety hours) = hours worked to the nearest hundredth (1.00, 0.25, 0.50, 0.75).
2. Refer to conversion chart no. 2

**REPORTING UNITS** = hours

<table>
<thead>
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<th>EQUIPMENT</th>
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</tbody>
</table>

**SMALL TOOLS**

Hydraulic Power Tools
Shovels
Brush hooks
Pitchforks
Ropes
Chainsaws
Machetes
Personal Safety Equipment
Face Shield
Chaps
Measuring Devices
Work Signs and Safety Equipment

**MATERIAL**

Litter Bags
Pre - Mixed Gas & Oil
Bar Oil
Other Materials as needed

**EFFECTIVE DATE:**

July 1, 1996

**APPROVED BY:**

State Maintenance Engineer
**FLORIDA DEPARTMENT OF TRANSPORTATION**  
**MAINTENANCE MANAGEMENT SYSTEM**  
**ROUTINE MAINTENANCE ACTIVITY**

| TREE TRIMMING AND/OR REMOVAL | **MMS ACTIVITY:** 492  
**MRP:** VEGETATION and AESTHETICS |
|-------------------------------|--------------------------|

**DESCRIPTION**

Trimming trees and the removal of undesirable trees over 100 mm (4") in diameter. To include the chipping and/or removal of all debris; grinding and/or removal stumps. Trimming and removal of trees 100 mm (4") or less in diameter should be reported to Activity 487.

**PURPOSE**

Trim trees to maintain proper sight distance, vertical clearance, and growth encroachment near travel lanes, sidewalks and other appropriate facilities.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Cut and remove all undesirable trees and limbs encroaching into clear zone or blocking travelways.
3. Cut and remove all dead vegetation that could fall or present a hazard outside the clear zone.
4. Chip on site or haul away debris and dispose in an authorized area.
5. Remove or grind stumps 152 mm (6") below ground within mowing areas and/or clear zones.
6. Clean up work site.
7. Complete crew report before moving to the next site.
8. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standard Indexes 546, 600, & 700 Series.
3. FDOT Standard Specifications for Road & Bridge Construction - Sections 110-2, & 100-3.
5. BT 07-0022 - Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
# FLORIDA DEPARTMENT OF TRANSPORTATION
# MAINTENANCE MANAGEMENT SYSTEM
# ROUTINE MAINTENANCE ACTIVITY

<table>
<thead>
<tr>
<th>WILDFLOWERS</th>
<th>MMS ACTIVITY: 489</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MRP: VEGETATION and AESTHETICS</td>
</tr>
</tbody>
</table>

## DESCRIPTION
All efforts required to plant and maintain wildflower areas.

## PURPOSE
To propagate new stands of wildflowers as well as preserve existing stands along roadside and other visible areas.

## SCHEDULING FREQUENCY
As determined by the Work Needs Survey.

## RECOMMENDED WORK SEQUENCE
1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Refer to applicable specifications listed below.
3. Clean up work site.
4. Complete crew report before moving to the next site.
5. Pick up work signs and other safety equipment.

## SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standards - Index 600.
3. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
**ACTIVITY NO.** 490

**MRP CRITERIA:**

Refer to Vegetation/Aesthetics element, under: "Turf Condition"

Turf in the mowing area is 75% free of undesired vegetation.

**METHOD OF REPORTING**

1. Report the metric tons (U. S. tons) of fertilizer used.
2. Report to the nearest hundredth.

| REPORTING UNITS = metric tons (U. S. tons) |

| **PERSONNEL** | **EQUIPMENT** |

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<th>CLASS CODE</th>
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<th>FLEET CODE</th>
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<td>9740</td>
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<td>OMST-I</td>
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<td>2 Ton Flatbed</td>
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<td>Tractor Diesel (68 HP)</td>
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<td>3301</td>
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<td>Fertilizer Distributor</td>
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<td>3/4 Ton</td>
</tr>
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<td>0520</td>
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<td>3/4 Ton Pickup with mounted</td>
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<td></td>
<td>flashing arrow</td>
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<td></td>
<td></td>
<td>1001</td>
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<td>2 Ton Truck with attenuator &amp;</td>
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<td></td>
<td></td>
<td><em>Safety and traffic control assistance as required</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>SMALL TOOLS</strong></th>
<th><strong>MATERIAL</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Various Hand Tools as necessary</td>
<td>Fertilizer</td>
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<tr>
<td>Work signs and safety Equipment</td>
<td>Litter Bags</td>
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<tr>
<td>Personal Protective Equipment</td>
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</tr>
<tr>
<td>Measuring Devices</td>
<td></td>
</tr>
</tbody>
</table>

**EFFECTIVE DATE**  
July 1, 1996  
**APPROVED BY**  
State Maintenance Engineer
ACTIVITY 489

MRP CRITERIA:

Refer to Vegetation/Aesthetics element, under "Landscaping". Vegetation is maintained in a healthy, attractive condition.

METHOD OF REPORTING

1. Site Preparation.
   A. Area treated with Non-Selective Herbicide - Report area planted to the nearest hundredth.
   B. Mulching - Report area to the nearest hundredth.

2. Planting
   A. Areas planted mechanically or manually and dragged with device to incorporate seed - Report area to the nearest hundredth.

3. Maintenance
   A. Irrigation - Report area to the nearest hundredth.
   B. Fertilization - Report area to the nearest hundredth.
   C. Selective Chemical Weeding - Report area to the nearest hundredth.

4. Refer to conversion chart no. 8 - m, (8), 9 - m.

REPORTING UNITS = hectares (acres)

<table>
<thead>
<tr>
<th>CLASS CODE</th>
<th>NO.</th>
<th>SKILL CLASS</th>
<th>FLEET CODE</th>
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<th>EQUIPMENT DESCRIPTION</th>
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<tr>
<td>9740</td>
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<td>OMST - I</td>
<td>1010</td>
<td>1</td>
<td>Herbicide Spray System</td>
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<td>3120</td>
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<td>Diesel Tractor 55 H.P.</td>
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<td>Flail Mower</td>
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<td>1</td>
<td>3/4 Ton Pickup</td>
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<td>3610</td>
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<td>Seeder (Optional)</td>
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<td></td>
<td>Safety and Traffic Control Assistance As Required</td>
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<td></td>
<td>Portable Water Supply</td>
</tr>
</tbody>
</table>

SMALL TOOLS

Various Hand Tools
Back Pack Sprayers
Dragging Device
Work signs and safety equipment
Personal Safety Equipment
Measuring Devices

MATERIAL

Wildflower seeds
Fertilizer
Water
Herbicide - Selective and Non-Selective
Other Additives
Litter Bags

EFFECTIVE DATE

July 1, 1996

APPROVED BY

STATE MAINTENANCE ENGINEER
<table>
<thead>
<tr>
<th>FERTILIZING</th>
<th>MMS ACTIVITY: 490</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MRP: VEGETATION and AESTHETICS</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Fertilizing to provide required nutrients to establish and maintain an acceptable roadside turf. Not to include fertilizing operations completed in conjunction with any other activity.

**PURPOSE**

To establish and maintain fertile soil conditions which will support healthy ground cover.

**SCHEDULING FREQUENCY**

As determined by the Work Needs Survey.

**RECOMMENDED WORK SEQUENCE**

1. Place work zone traffic control devices in accordance with the MUTCD and Series 600 of the FDOT Roadway and Traffic Design Standards.
2. Spread fertilizer uniformly at the application rate designated by results of soil testing.
3. Complete crew report before moving to the next site.
4. Pick up work signs and other safety equipment.

**SPECIFICATIONS, STANDARDS, SPECIAL PROVISIONS, PROCEDURES and TRAINING RESOURCES**

*** All referenced publications shall be current edition with supplements ***

2. FDOT Roadway and Traffic Design Standards - Index 600.
3. BT 07-0022 Work Zone Traffic Control for Maintenance and Utility Operations (Level 3).
CONVERSION CHART 18 - m

PAVEMENT SYMBOLS - LINE REMOVAL/INSTALLATION
FOR ACTIVITIES: 534

<table>
<thead>
<tr>
<th>SKIP LINE (STANDARD 150mm WIDE LINE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EACH</td>
</tr>
<tr>
<td>--------------------------------------</td>
</tr>
<tr>
<td>3 - 9 SKIP</td>
</tr>
<tr>
<td>m2</td>
</tr>
<tr>
<td>0.50 0.90 1.40 1.80 2.30 4.50 9.00 13.50 18.00 22.50 45.00</td>
</tr>
<tr>
<td>3-3-6 Skip W/Black</td>
</tr>
<tr>
<td>m2</td>
</tr>
<tr>
<td>0.90 1.80 2.80 3.60 4.60 9.00 18.00 27.00 36.00 45.00 90.00</td>
</tr>
<tr>
<td>1.8-3.0 Extension</td>
</tr>
<tr>
<td>m2</td>
</tr>
<tr>
<td>0.30 0.50 0.80 1.10 1.40 2.70 5.40 8.10 10.80 13.50 27.00</td>
</tr>
<tr>
<td>600(6)-1.2 Guide</td>
</tr>
<tr>
<td>m2</td>
</tr>
<tr>
<td>0.10 0.20 0.30 0.40 0.50 0.90 1.80 2.70 3.60 4.50 9.00</td>
</tr>
</tbody>
</table>

LENGTH IN KILOMETERS

| 3 - 9 SKIP                            |
| m2                                   |
| 3.70 7.40 11.10 14.80 18.50 22.20 25.90 29.60 33.30 37.40 74.80 |
| 3-3-6 Skip W/Black                    |
| m2                                   |
| 7.40 15.80 22.20 29.60 37.00 44.40 51.80 59.20 66.60 74.80 149.60 |
| 1.8-3.0 Extension                     |
| m2                                   |
| 5.60 11.20 17.10 22.90 28.60 34.30 40.00 44.00 51.40 56.20 112.40 |
| 600(6)-1.2 Guide                      |
| m2                                   |
| 5.00 10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 100.00 |

NOTE:
When measuring removal/installation by kilometer, measure painted and unpainted distance.
If the line is 300 mm wide, then double the EACH or KILOMETERS for the correct square meters.

SOLID LINE (STANDARD 150 mm WIDE LINE)

<table>
<thead>
<tr>
<th>Length in meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>meters</td>
</tr>
<tr>
<td>5.00 10.00 15.00 20.00 30.00 40.00 50.00 100.00 200.00 300.00 400.00 500.00</td>
</tr>
<tr>
<td>m2</td>
</tr>
<tr>
<td>0.75 1.50 2.30 3.00 4.50 6.00 7.50 15.00 30.00 45.00 60.00 75.00</td>
</tr>
</tbody>
</table>

Length in kilometers

<table>
<thead>
<tr>
<th>kilometer</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.50 0.60 0.70 0.80 0.90 1.00 1.50 2.00 2.50 3.00 3.50 4.00</td>
</tr>
<tr>
<td>m2</td>
</tr>
<tr>
<td>75.00 90.00 105.00 120.00 135.00 150.00 225.00 300.00 375.00 450.00 525.00 600.00</td>
</tr>
</tbody>
</table>

NOTE:
If the line is 300 mm wide, then double the METERS or KILOMETERS for the correct square meters.

meters X meters = m2
1,000 meters = 1-kilometer
1 meter = .001 kilometer

Effective Date: July 1, 1996
UNITS of MEASUREMENT

12 inches (inch. "") = 1 foot (ft. ')  
36 inches = 1 yard (yd.)  
3 feet (ft. ') = 1 yard  
5,280 feet = 1 mile  
8 ounces (oz.) = 1 cup  
43,560 square feet (sq. ft.) = 1 acre (ar.)  
16 ounces = 1 pint (pt.)  
128 ounces = 1 gallon (gal.)  
8 pints = 1 gallon  
4 quarts (qt.) = 1 gallon  
2 pints = 1 quart

feet (ft.)  
acre (ar.)  
meter (m)  
gallon (gal.)  
kilometer (kl)  
square feet (sq. Ft.)  
pounds (lb.)

yard (yd.)  
cup (cp.)  
pint (pt.)  
meter (m)  
hectare (ha)  
inch (in.)  
English tons (t.)  
metric tons (t)

ft. x ft. = sq. ft.  
ft. x ft. X ft. = cu. ft.

m x m = sq. m  
m x m x m = cu. m

3,280 ft. = 1 kl  
3.2 ft. = 1 m  
1 ft. = 0.3 m  
1 yd. = .9 m  
2.5 ar. = 1 ha  
2,204.6 lbs. = 1 metric ton

1,000 millimeters (mm) = 1 meter (m)  
100 centimeters (cm) = 1 meter  
10 decimeters (dm) = 1 meter  
1,000 meters = 1 kilometer (km)  
10,000 square meters (m², m²) = 1 hectare (ha)

0.62 mi. = 1 kl  
3.9 inches = 1 mm  
1 ft. = 30.5 cm  
1 yd. = 1m  
1 gal. = 4.4 l  
1.1 t = 1 metric tons

Effective Date: July 1, 1996
### CONVERSION CHART 19 - m

**GALLONS to LITERS**

<table>
<thead>
<tr>
<th>GALLONS</th>
<th>0.125</th>
<th>0.250</th>
<th>0.375</th>
<th>0.500</th>
<th>0.625</th>
<th>0.750</th>
<th>0.875</th>
<th>1.000</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITERS</td>
<td>0.47</td>
<td>0.95</td>
<td>1.42</td>
<td>1.89</td>
<td>2.37</td>
<td>2.84</td>
<td>3.31</td>
<td>3.79</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GALLONS</th>
<th>2.00</th>
<th>3.00</th>
<th>4.00</th>
<th>5.00</th>
<th>6.00</th>
<th>7.00</th>
<th>8.00</th>
<th>9.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITERS</td>
<td>7.57</td>
<td>11.36</td>
<td>15.14</td>
<td>18.93</td>
<td>22.71</td>
<td>26.50</td>
<td>30.28</td>
<td>34.07</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GALLONS</th>
<th>10.00</th>
<th>11.00</th>
<th>12.00</th>
<th>13.00</th>
<th>14.00</th>
<th>15.00</th>
<th>16.00</th>
<th>17.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITERS</td>
<td>37.85</td>
<td>41.64</td>
<td>45.42</td>
<td>49.21</td>
<td>53.00</td>
<td>56.78</td>
<td>60.57</td>
<td>64.35</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GALLONS</th>
<th>18.00</th>
<th>19.00</th>
<th>20.00</th>
<th>21.00</th>
<th>22.00</th>
<th>23.00</th>
<th>24.00</th>
<th>25.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITERS</td>
<td>68.14</td>
<td>71.92</td>
<td>75.71</td>
<td>79.49</td>
<td>83.28</td>
<td>87.06</td>
<td>90.85</td>
<td>94.64</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GALLONS</th>
<th>26.00</th>
<th>27.00</th>
<th>28.00</th>
<th>29.00</th>
<th>30.00</th>
<th>31.00</th>
<th>32.00</th>
<th>33.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITERS</td>
<td>98.42</td>
<td>102.21</td>
<td>105.99</td>
<td>109.78</td>
<td>113.56</td>
<td>117.35</td>
<td>121.13</td>
<td>124.92</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GALLONS</th>
<th>34.00</th>
<th>35.00</th>
<th>36.00</th>
<th>37.00</th>
<th>38.00</th>
<th>39.00</th>
<th>40.00</th>
<th>41.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITERS</td>
<td>128.70</td>
<td>132.49</td>
<td>136.27</td>
<td>140.06</td>
<td>143.85</td>
<td>147.63</td>
<td>151.42</td>
<td>155.20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GALLONS</th>
<th>42.00</th>
<th>43.00</th>
<th>44.00</th>
<th>45.00</th>
<th>46.00</th>
<th>47.00</th>
<th>48.00</th>
<th>49.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITERS</td>
<td>158.99</td>
<td>162.77</td>
<td>166.56</td>
<td>170.34</td>
<td>174.13</td>
<td>177.91</td>
<td>181.70</td>
<td>185.49</td>
</tr>
</tbody>
</table>

.125 GALLON = 1 PINT = .473 LITER
# CONVERSION CHART 18

**PAVEMENT SYMBOLS - LINE REMOVAL/INSTALLATION FOR ACTIVITIES: 534**

## SKIP LINE (STANDARD 6 INCH WIDE LINE)

<table>
<thead>
<tr>
<th>EACH</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 - 30 SKIP</td>
<td>5.00</td>
<td>10.00</td>
<td>15.00</td>
<td>20.00</td>
<td>25.00</td>
<td>50.00</td>
<td>100.00</td>
<td>150.00</td>
<td>200.00</td>
<td>250.00</td>
<td>500.00</td>
</tr>
<tr>
<td>10-10-20 Skip W/Black</td>
<td>10.00</td>
<td>20.00</td>
<td>30.00</td>
<td>40.00</td>
<td>50.00</td>
<td>100.00</td>
<td>200.00</td>
<td>300.00</td>
<td>400.00</td>
<td>500.00</td>
<td>1000.00</td>
</tr>
<tr>
<td>6 - 10 Extension</td>
<td>3.00</td>
<td>6.00</td>
<td>9.00</td>
<td>12.00</td>
<td>15.00</td>
<td>30.00</td>
<td>60.00</td>
<td>90.00</td>
<td>120.00</td>
<td>150.00</td>
<td>300.00</td>
</tr>
<tr>
<td>2 - 4 Guide</td>
<td>1.00</td>
<td>2.00</td>
<td>3.00</td>
<td>4.00</td>
<td>5.00</td>
<td>10.00</td>
<td>20.00</td>
<td>30.00</td>
<td>40.00</td>
<td>50.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

## LENGTH IN MILES

<table>
<thead>
<tr>
<th>MILES</th>
<th>0.10</th>
<th>0.20</th>
<th>0.30</th>
<th>0.40</th>
<th>0.50</th>
<th>0.60</th>
<th>0.70</th>
<th>0.80</th>
<th>0.90</th>
<th>1.00</th>
<th>2.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 - 30 SKIP</td>
<td>66.00</td>
<td>132.00</td>
<td>198.00</td>
<td>264.00</td>
<td>330.00</td>
<td>396.00</td>
<td>462.00</td>
<td>528.00</td>
<td>594.00</td>
<td>660.00</td>
<td>1320.00</td>
</tr>
<tr>
<td>10-10-20 Skip W/Black</td>
<td>132.00</td>
<td>264.00</td>
<td>396.00</td>
<td>528.00</td>
<td>660.00</td>
<td>792.00</td>
<td>924.00</td>
<td>1056.00</td>
<td>1188.00</td>
<td>1320.00</td>
<td>2640.00</td>
</tr>
<tr>
<td>6 - 10 Extension</td>
<td>99.00</td>
<td>198.00</td>
<td>297.00</td>
<td>396.00</td>
<td>495.00</td>
<td>594.00</td>
<td>693.00</td>
<td>792.00</td>
<td>891.00</td>
<td>990.00</td>
<td>1980.00</td>
</tr>
<tr>
<td>2 - 4 Guide</td>
<td>88.00</td>
<td>176.00</td>
<td>264.00</td>
<td>352.00</td>
<td>440.00</td>
<td>528.00</td>
<td>616.00</td>
<td>704.00</td>
<td>792.00</td>
<td>880.00</td>
<td>1760.00</td>
</tr>
</tbody>
</table>

**NOTE:**
When measuring removal/installation by mile, measure painted and unpainted distance. If the line is 12 inches wide, then double the EACH or MILES for the correct square feet.

## SOLID LINE (STANDARD 6 INCH WIDE LINE)

<table>
<thead>
<tr>
<th>LENGTH IN FEET</th>
<th>SQUARE FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feet</td>
<td>5.00</td>
</tr>
<tr>
<td>Square Feet</td>
<td>2.50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LENGTH IN FEET</th>
<th>5280 Feet in a Mile</th>
<th>1 Mile = 528 Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miles</td>
<td>0.50</td>
<td>0.60</td>
</tr>
<tr>
<td>Square Feet</td>
<td>1320.00</td>
<td>1584.00</td>
</tr>
</tbody>
</table>

**NOTE:**
If the line is 12 inches wide, then double the FEET or MILES for the correct square feet.

Feet x Feet = Square Feet
5280 Feet in a Mile
0.1 Mile = 528 Feet

Effective Date: July 1, 1996
CONVERSION CHART 17 - m
DISTRICT - WIDE PAVEMENT STRIPING
FOR ACTIVITIES: 532

ITEM
[1]-Kilometer of Double White
[1]-Kilometer of Single Line
[1]-Kilometer of Skip
[1]-Kilometer of Skip W/Black

REPORT AS
[1] Kilometer Striping
[.25] Kilometer Striping
[.50] Kilometer Striping

<table>
<thead>
<tr>
<th>LENGTH IN KILOMETERS</th>
<th>0.1</th>
<th>0.2</th>
<th>0.3</th>
<th>0.4</th>
<th>0.5</th>
<th>0.6</th>
<th>0.7</th>
<th>0.8</th>
<th>0.9</th>
<th>1.0</th>
<th>2.0</th>
<th>3.0</th>
<th>4.0</th>
<th>5.0</th>
<th>10.0</th>
<th>15.0</th>
<th>20.0</th>
<th>25.0</th>
<th>30.0</th>
<th>40.0</th>
<th>50.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>KILOMETERS TO REPORT (3-9)</td>
<td>0.03</td>
<td>0.05</td>
<td>0.08</td>
<td>0.10</td>
<td>0.13</td>
<td>0.15</td>
<td>0.18</td>
<td>0.20</td>
<td>0.23</td>
<td>0.25</td>
<td>0.50</td>
<td>0.75</td>
<td>1.00</td>
<td>1.25</td>
<td>2.50</td>
<td>3.75</td>
<td>5.00</td>
<td>6.25</td>
<td>7.50</td>
<td>10.00</td>
<td>12.50</td>
</tr>
</tbody>
</table>

KILOMETERS TO REPORT (3-3.6,W/Black) | 0.06 | 0.10 | 0.16 | 0.20 | 0.26 | 0.30 | 0.36 | 0.40 | 0.46 | 0.50 | 1.00 | 1.50 | 2.00 | 2.50 | 5.00 | 7.50 | 10.00 | 12.50 | 15.00 | 20.00 | 25.00 |

Painting of multiple lines, simultaneously, will be reported using the chart and the example below.

---

**Effective Date:** July 1, 1996
CONVERSION CHART 17
DISTRICT - WIDE PAVEMENT STRIPING
FOR ACTIVITIES: 532

ITEM
[1]-Mile of Double Yellow
[1]-Mile of Single Line
[1]-Mile of Skip
[1]-Mile of Skip W/Black

REPORT AS
[2] Miles Striping
[1] Mile Striping
[.25] Mile Striping
[.50] Mile Striping

<table>
<thead>
<tr>
<th>ITEM</th>
<th>REPORT AS</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]-Mile of Skip</td>
<td>[.25] Mile Striping</td>
</tr>
<tr>
<td>[1]-Mile of Skip W/Black</td>
<td>[.50] Mile Striping</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CONVERSION TABLE FOR SKIP LINES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length In Miles</td>
</tr>
<tr>
<td>Report (3-9, W/O Black) in Miles</td>
</tr>
<tr>
<td>Report (3-3-6, W/Black) in Miles</td>
</tr>
</tbody>
</table>

Painting of multiple lines, simultaneously, will be reported using the chart and the examples below.

REPORT:

EDGE OF PAVEMENT

[1]-MILE

REPORT:

EDGE OF PAVEMENT

[1]-MILE

REPORT:

EDGE OF PAVEMENT

[1]-MILE

MEDIAN EDGE OF PAVEMENT

MEDIAN EDGE OF PAVEMENT

MEDIAN EDGE OF PAVEMENT

MEDIAN EDGE OF PAVEMENT

Effective Date: July 1, 1996
CONVERSION CHART 16
FOR ACTIVITIES: 521, 522

Ground signs over 2.79 square meters (30 square feet) and all overlane signs, including sign overlay work

<table>
<thead>
<tr>
<th>Activity 521</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report a unit of work for each panel removed, one unit of work for each panel installed, one unit of work for each column removed, and one unit of work for each column installed. If overlay panels are involved, report 1.0 unit of production for each panel removed and 1.0 unit for each panel installed in addition to production for the mother board.</td>
</tr>
</tbody>
</table>

So, for the large sign shown below, if the sign was blown over and repair made, the production units would be:

1 - Sign removed (Greensboro)  = 5.0
2 - Columns removed            = 2.0
1 - Sign replaced              = 5.0
2 - Columns replaced           = 2.0
1 - Sign removed (EXIT)        = 1.0
1 - Sign replaced (EXIT)       = 1.0

TOTAL UNITS 16.0

Report production for the exit panel only if it is a separate panel as shown in example.

Effective Date: July 1, 1996
CONVERSION CHART 15  
FOR ACTIVITIES 520, 522

<table>
<thead>
<tr>
<th>Ground Signs 2.79 Square Meters (30 Square Feet) Or Less</th>
<th>Activity 520</th>
</tr>
</thead>
<tbody>
<tr>
<td>Give a unit of work for each panel removed, one unit of work for each panel installed, one unit of work for each column removed, and one unit of work for each column installed.</td>
<td></td>
</tr>
</tbody>
</table>

**SIGN ASSEMBLY 1**

- PANEL = 1 UNIT
- PANEL = 1 UNIT
- PANEL = 1 UNIT
- POST = 1 UNIT
- 4 UNITS

**SIGN ASSEMBLY 2**

- PANEL = 1 UNIT
- PANEL = 1 UNIT
- POST = 1 UNIT
- 3 UNITS

Replacement of either sign without replacing the post would be a production of:

**SIGN ASSEMBLY 1**

- Panels Removed = 3
- Panels Installed = 3
- Total Units = 6

**SIGN ASSEMBLY 2**

- Panels Removed = 2
- Panels Installed = 2
- Total Units = 4
CONVERSION CHART 14
ROADWAY SIGNS

CREW WORK SHEET AND CONVERSION CHART
FOR ACTIVITIES: 519, 520, 521

WORK DAY NO. ___________

DISTRICT __________ MAINTENANCE AREA __________ CREW NUMBER __________ PERSON IN CHARGE __________

<table>
<thead>
<tr>
<th>TYPE OF WORK</th>
<th>UNITS</th>
<th>X</th>
<th>FAC.</th>
<th>= TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANELS (INSTALLED OR REMOVED)</td>
<td></td>
<td>X</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>POSTS (INSTALLED OR REMOVED)</td>
<td></td>
<td>X</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>POSTS STRAIGHTENED</td>
<td></td>
<td>X</td>
<td>0.25</td>
<td></td>
</tr>
</tbody>
</table>

NOTES: TOTAL UNITS

Effective Date: July 1, 1996
CONVERSION CHART -- m

**PAVEMENT SYMBOLS**

**WORDS:**  
- **STOP** = 2.0 m²  
- **TURN** = 2.3 m²  
- **ONLY** = 2.0 m²  
- **BUS** = 1.9 m²  
- **LEFT** = 1.8 m²  
- **LANE** = 2.1 m²  
- **RIGHT** = 2.5 m²  
- **SCHOOL** = 3.07 m²  
- **RXR** = 8.3 m²  

* DOES NOT INCLUDE BARS.

**SYMBOLS:**  
- **MERGE** = 3.3 m²  
- **BIKE** = 1.0 m²

**STOP BARS, CROSSWALKS, and MISC.** (INDEX 17346)

- 600mm x 150 mm = .09 m²  
  (Turning Guide Lines/Radius Guide Line)
- 3.0 m x 150mm = .45 m²  
  (Center Line Skip)
- 1m x 450 mm = .45 m² (VARIES)  
  (Crosshatch for Gore Areas)
- 1.8 m x 150 mm = .27 m²  
  (Extension of Edge Lines)
- 1.0 m x 300 mm = .30 m² (VARIES)  
  (Crosswalks)
- 1m x 600 mm = .60 m² (VARIES)  
  (Stop Bars)

Effective Date: July 1, 1996
## Conversion Chart: Pavement Symbols

### Words:

<table>
<thead>
<tr>
<th>Word</th>
<th>Square Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOP</td>
<td>22 SQ. FT.</td>
</tr>
<tr>
<td>BUS</td>
<td>21 SQ. FT.</td>
</tr>
<tr>
<td>RIGHT</td>
<td>27 SQ. FT.</td>
</tr>
<tr>
<td>MERGE</td>
<td>36 SQ. FT.</td>
</tr>
<tr>
<td>TURN</td>
<td>25 SQ. FT.</td>
</tr>
<tr>
<td>LEFT</td>
<td>19 SQ. FT.</td>
</tr>
<tr>
<td>ONLY</td>
<td>22 SQ. FT.</td>
</tr>
<tr>
<td>SCHOOL</td>
<td>33 SQ. FT.</td>
</tr>
<tr>
<td>RXXR</td>
<td>89 SQ. FT.</td>
</tr>
</tbody>
</table>

* Does not include bars.

### Symbols:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Square Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>↑</td>
<td>12 SQ. FT.</td>
</tr>
<tr>
<td>◻ ◻</td>
<td>11 SQ. FT.</td>
</tr>
<tr>
<td>→ →</td>
<td>35 SQ. FT.</td>
</tr>
<tr>
<td>← ←</td>
<td>16 SQ. FT.</td>
</tr>
<tr>
<td>OR</td>
<td>27 SQ. FT.</td>
</tr>
</tbody>
</table>

### Stop Bars, Crosswalks, and Misc.:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Square Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>24” X 6”</td>
<td>1 SQ. FT.</td>
</tr>
<tr>
<td>(Turning Guide Lines/Radius Guide Line)</td>
<td></td>
</tr>
<tr>
<td>6’ X 6”</td>
<td>3 SQ. FT.</td>
</tr>
<tr>
<td>(Extension of Edge Lines)</td>
<td></td>
</tr>
<tr>
<td>10” X 6”</td>
<td>5 SQ. FT.</td>
</tr>
<tr>
<td>(Center Line Skip)</td>
<td></td>
</tr>
<tr>
<td>12” X 12”</td>
<td>(VARIES) = 1 SQ. FT.</td>
</tr>
<tr>
<td>(Crosswalks)</td>
<td></td>
</tr>
<tr>
<td>18” X 12”</td>
<td>(VARIES) = 1.5 SQ. FT.</td>
</tr>
<tr>
<td>(Crosshatch for Gore Areas)</td>
<td></td>
</tr>
<tr>
<td>24” X 12”</td>
<td>(VARIES) = 2 SQ. FT.</td>
</tr>
<tr>
<td>(Stop Bars)</td>
<td></td>
</tr>
</tbody>
</table>

Effective Date: July 1, 1996
CHART 12-M
CONCRETE REPAIR PRODUCTION
CURB and GUTTER
FDOT Metric Roadway and Traffic Design Standards - INDEX 300
NOTE: MEASUREMENTS ARE MADE IN MILLIMETERS

0.09 m³/m
Type B Curb

0.09 m³/m
Type D Curb

0.15 m³/m
Type E Curb

0.10 m³/m
Type F Curb

0.08 m³/m
Type A Curb

0.16 m³/m
Drop Curb - section AA

0.10 m³/m
Drop Curb

0.14 m³/m
Shoulder Gutter

Effective Date: July 1, 1996
CONVERSION CHART 12
CONCRETE REPAIR PRODUCTION
CURB and GUTTER
FDOT Roadway and Traffic Design Standards - INDEX 300

0.04 C.Y. per L.F.
Type B Curb

0.04 C.Y. per L.F.
Type D Curb

0.05 C.Y. per L.F.
Type E Curb

0.05 C.Y. per L.F.
Type F Curb

0.03 C.Y. per L.F.
Type A Curb

0.06 C.Y. per L.F.
Drop Curb - section AA

0.04 C.Y. per L.F.
Drop Curb

0.06 C.Y. per L.F.
Shoulder Gutter

Effective Date: July 1, 1996
CONVERSION CHART 11 - m
CONCRETE REPAIR PRODUCTION
Traffic Separators
FDOT Metric Roadway and Traffic Design Standards - INDEX NO. 281

<table>
<thead>
<tr>
<th>W in Meters</th>
<th>m³/m</th>
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<tbody>
<tr>
<td>1.2</td>
<td>0.38</td>
</tr>
<tr>
<td>1.8</td>
<td>0.55</td>
</tr>
<tr>
<td>2.6</td>
<td>0.79</td>
</tr>
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</table>

OPTION I
Type I Concrete Traffic Separator

<table>
<thead>
<tr>
<th>W in Meters</th>
<th>m³/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td>.33</td>
</tr>
<tr>
<td>1.8</td>
<td>.51</td>
</tr>
<tr>
<td>2.6</td>
<td>.77</td>
</tr>
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</table>

OPTION II
Type I Concrete Traffic Separator

<table>
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<th>m³/m</th>
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</thead>
<tbody>
<tr>
<td>1.2</td>
<td>0.37</td>
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<tr>
<td>1.8</td>
<td>0.54</td>
</tr>
<tr>
<td>2.6</td>
<td>0.78</td>
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OPTION III
Type II Concrete Traffic Separator

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<th>m³/m</th>
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<td>0.24</td>
</tr>
<tr>
<td>1.8</td>
<td>0.37</td>
</tr>
<tr>
<td>2.6</td>
<td>0.54</td>
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</table>

Type V Concrete Traffic Separator

Effective Date: July 1, 1996
CONVERSION CHART 11
CONCRETE REPAIR PRODUCTION
Traffic Separators
FDOT Roadway and Traffic Design Standards - INDEX NO. 281

<table>
<thead>
<tr>
<th>W in Feet</th>
<th>C.Y./L.F.</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>0.08</td>
</tr>
<tr>
<td>6</td>
<td>0.12</td>
</tr>
<tr>
<td>8'- 6&quot;</td>
<td>0.16</td>
</tr>
</tbody>
</table>

**OPTION I**
Type I Concrete Traffic Separator

<table>
<thead>
<tr>
<th>W in Feet</th>
<th>C.Y./L.F.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0.08</td>
</tr>
<tr>
<td>6</td>
<td>0.13</td>
</tr>
<tr>
<td>8'- 6&quot;</td>
<td>0.19</td>
</tr>
</tbody>
</table>

**OPTION II**
Type I Concrete Traffic Separator

<table>
<thead>
<tr>
<th>W in Feet</th>
<th>C.Y./L.F.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0.09</td>
</tr>
<tr>
<td>6</td>
<td>0.12</td>
</tr>
<tr>
<td>8'- 6&quot;</td>
<td>0.17</td>
</tr>
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</table>

**OPTION I**
Type II Concrete Traffic Separator

<table>
<thead>
<tr>
<th>W in Feet</th>
<th>C.Y./L.F.</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>0.10</td>
</tr>
<tr>
<td>6</td>
<td>0.14</td>
</tr>
<tr>
<td>8'- 6&quot;</td>
<td>0.21</td>
</tr>
</tbody>
</table>

Type V Concrete Separator

Effective Date: July 1, 1996
CONVERSION CHART 10 - m
CONCRETE REPAIR PRODUCTION
PAVED DITCH

FDOT Metric Roadway and Traffic Design Standards - INDEX NO. 281

<table>
<thead>
<tr>
<th>Width in Meters</th>
<th>Cubic Meters for 1 Meter Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td>0.10</td>
</tr>
<tr>
<td>1.5</td>
<td>0.12</td>
</tr>
<tr>
<td>1.8</td>
<td>0.14</td>
</tr>
<tr>
<td>2.1</td>
<td>0.17</td>
</tr>
<tr>
<td>2.4</td>
<td>0.19</td>
</tr>
<tr>
<td>2.7</td>
<td>0.22</td>
</tr>
<tr>
<td>3.0</td>
<td>0.24</td>
</tr>
<tr>
<td>3.6</td>
<td>0.29</td>
</tr>
<tr>
<td>4.2</td>
<td>0.34</td>
</tr>
</tbody>
</table>

Roadway Side Ditch

Alternate Ditch Pavement

Swaled Medians

Effective Date: July 1, 1996
## CONVERSION CHART 10
### CONCRETE REPAIR PRODUCTION
#### PAVED DITCH

FDOT Roadway and Traffic Design Standards - INDEX NO. 281

<table>
<thead>
<tr>
<th>Width in Feet</th>
<th>Cubic Yards for 1 Foot Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0.04</td>
</tr>
<tr>
<td>5</td>
<td>0.05</td>
</tr>
<tr>
<td>6</td>
<td>0.06</td>
</tr>
<tr>
<td>7</td>
<td>0.07</td>
</tr>
<tr>
<td>8</td>
<td>0.07</td>
</tr>
<tr>
<td>9</td>
<td>0.08</td>
</tr>
<tr>
<td>10</td>
<td>0.09</td>
</tr>
<tr>
<td>12</td>
<td>0.11</td>
</tr>
<tr>
<td>14</td>
<td>0.13</td>
</tr>
</tbody>
</table>

![Roadway Side Ditch](image)

![Alternate Ditch Pavement](image)

![Swaled Medians](image)

Effective Date: July 1, 1996
### Conversion Chart 9 - m

**Meters X Kilometers/10,000 = Hectares**

FOR ACTIVITIES: 435, 436, 465, 471, 482, 484, 485, 487, 489, 498, 541

<table>
<thead>
<tr>
<th>WIDTH IN METERS</th>
<th>LENGTH IN KILOMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.10</td>
<td>0.01</td>
</tr>
<tr>
<td>0.20</td>
<td>0.02</td>
</tr>
<tr>
<td>0.30</td>
<td>0.02</td>
</tr>
<tr>
<td>0.40</td>
<td>0.04</td>
</tr>
<tr>
<td>0.50</td>
<td>0.06</td>
</tr>
<tr>
<td>0.60</td>
<td>0.06</td>
</tr>
<tr>
<td>0.70</td>
<td>0.08</td>
</tr>
<tr>
<td>0.80</td>
<td>0.08</td>
</tr>
<tr>
<td>0.90</td>
<td>0.10</td>
</tr>
<tr>
<td>1.00</td>
<td>0.10</td>
</tr>
<tr>
<td>2.00</td>
<td>0.20</td>
</tr>
<tr>
<td>3.00</td>
<td>0.30</td>
</tr>
<tr>
<td>4.00</td>
<td>0.40</td>
</tr>
<tr>
<td>5.00</td>
<td>0.50</td>
</tr>
<tr>
<td>6.00</td>
<td>0.60</td>
</tr>
<tr>
<td>7.00</td>
<td>0.70</td>
</tr>
<tr>
<td>8.00</td>
<td>0.80</td>
</tr>
<tr>
<td>9.00</td>
<td>0.90</td>
</tr>
<tr>
<td>10.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>

In reporting production in Hectares, round to the nearest hundredth of a Hectare for the production for the day on the crew sheet.

1 - HECTARE = 10,000 SQUARE METERS
METERS X METERS = SQUARE METERS
1,000 METERS = 1 KIOMETER
1 METER = 0.001 KIOMETER

**Effective Date:** July 1, 1996
# CONVERSION CHART 8 - m

**METERS X METERS/10,000 = HECTARES**

**FOR ACTIVITIES: 435, 436, 465, 471, 482, 484, 485, 487, 489, 498, 541**

<table>
<thead>
<tr>
<th>WIDTH IN METERS</th>
<th>LENGTH IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>100</td>
</tr>
<tr>
<td>50</td>
<td>200</td>
</tr>
<tr>
<td>75</td>
<td>300</td>
</tr>
<tr>
<td>100</td>
<td>400</td>
</tr>
<tr>
<td>125</td>
<td>500</td>
</tr>
</tbody>
</table>

| 150             | 600              |
| 175             | 700              |
| 200             | 800              |
| 225             | 900              |
| 250             | 1000             |

| 275             | 1100             |
| 300             | 1200             |
| 325             | 1300             |
| 350             | 1400             |
| 375             | 1500             |
| 400             | 1600             |
| 425             | 1700             |
| 450             | 1800             |
| 500             | 2000             |

To report production in Hectares, round to the nearest hundredth of a hectare for production for the day on the Crew Sheet.

**1 - HECTARE = 10,000 SQUARE METERS**

**METERS X METERS = SQUARE METERS**

**1,000 METERS = 1- KILOMETER**

**1 METER = 0.001 KILOMETER**

Effective Date: July 1, 1996
CONVERSION CHART 8

SQUARE FEET TO ACRES

FOR ACTIVITIES 435, 436, 465, 471, 482, 484, 485, 487, 489, 498, 541

<table>
<thead>
<tr>
<th>SQ. FT.</th>
<th>50</th>
<th>100</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACRES</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.02</td>
<td>0.05</td>
<td>0.07</td>
</tr>
<tr>
<td>SQ. FT.</td>
<td>4000</td>
<td>5000</td>
<td>6000</td>
<td>7000</td>
<td>8000</td>
<td>9000</td>
<td>10000</td>
<td>10100</td>
<td>10200</td>
</tr>
<tr>
<td>ACRES</td>
<td>0.09</td>
<td>0.11</td>
<td>0.14</td>
<td>0.16</td>
<td>0.18</td>
<td>0.21</td>
<td>0.23</td>
<td>0.23</td>
<td>0.23</td>
</tr>
<tr>
<td>SQ. FT.</td>
<td>10300</td>
<td>10400</td>
<td>10500</td>
<td>10600</td>
<td>10700</td>
<td>10800</td>
<td>10900</td>
<td>11000</td>
<td>12000</td>
</tr>
<tr>
<td>ACRES</td>
<td>0.24</td>
<td>0.24</td>
<td>0.24</td>
<td>0.24</td>
<td>0.25</td>
<td>0.25</td>
<td>0.25</td>
<td>0.25</td>
<td>0.28</td>
</tr>
<tr>
<td>SQ. FT.</td>
<td>13000</td>
<td>14000</td>
<td>15000</td>
<td>16000</td>
<td>17000</td>
<td>18000</td>
<td>19000</td>
<td>20000</td>
<td>21000</td>
</tr>
<tr>
<td>ACRES</td>
<td>0.30</td>
<td>0.32</td>
<td>0.34</td>
<td>0.37</td>
<td>0.39</td>
<td>0.41</td>
<td>0.44</td>
<td>0.46</td>
<td>0.48</td>
</tr>
<tr>
<td>SQ. FT.</td>
<td>22000</td>
<td>23000</td>
<td>24000</td>
<td>25000</td>
<td>26000</td>
<td>27000</td>
<td>28000</td>
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<td>0.57</td>
<td>0.60</td>
<td>0.62</td>
<td>0.64</td>
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<tr>
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<td>32000</td>
<td>33000</td>
<td>34000</td>
<td>35000</td>
<td>36000</td>
<td>37000</td>
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<td>0.80</td>
<td>0.83</td>
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<td>0.87</td>
<td>0.90</td>
</tr>
<tr>
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<td>41000</td>
<td>42000</td>
<td>43000</td>
<td>44000</td>
<td>45000</td>
<td>46000</td>
<td>47000</td>
<td>48000</td>
</tr>
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<td>0.96</td>
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<td>1.03</td>
<td>1.06</td>
<td>1.08</td>
<td>1.10</td>
</tr>
<tr>
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<td>50000</td>
<td>55000</td>
<td>60000</td>
<td>65000</td>
<td>70000</td>
<td>75000</td>
<td>80000</td>
<td>85000</td>
</tr>
<tr>
<td>ACRES</td>
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<td>1.26</td>
<td>1.38</td>
<td>1.49</td>
<td>1.61</td>
<td>1.72</td>
<td>1.84</td>
<td>1.95</td>
</tr>
<tr>
<td>SQ. FT.</td>
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<td>95000</td>
<td>100000</td>
<td>105000</td>
<td>110000</td>
<td>115000</td>
<td>120000</td>
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<td>130000</td>
</tr>
<tr>
<td>ACRES</td>
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<td>2.18</td>
<td>2.30</td>
<td>2.41</td>
<td>2.53</td>
<td>2.64</td>
<td>2.75</td>
<td>2.87</td>
<td>2.98</td>
</tr>
<tr>
<td>SQ. FT.</td>
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<td>140000</td>
<td>145000</td>
<td>150000</td>
<td>155000</td>
<td>160000</td>
<td>165000</td>
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<td>175000</td>
</tr>
<tr>
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<td>3.21</td>
<td>3.33</td>
<td>3.44</td>
<td>3.56</td>
<td>3.67</td>
<td>3.79</td>
<td>3.90</td>
<td>4.02</td>
</tr>
<tr>
<td>SQ. FT.</td>
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<td>185000</td>
<td>190000</td>
<td>195000</td>
<td>200000</td>
<td>205000</td>
<td>210000</td>
<td>215000</td>
<td>220000</td>
</tr>
<tr>
<td>ACRES</td>
<td>4.13</td>
<td>4.25</td>
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Effective Date: July 1, 1996
CONVERSION CHART 7 - m
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FOR ACTIVITIES: 421, 437, 457

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In determining production in meters cubed, areas where the depth is greater than .01 meter, divide the depth by .01 meter (1 centimeter) obtaining a factor (x); multiply the number from the chart by determining the length X width by the factor (x).

Effective Date: July 1, 1996
CONVERSION CHART 7
CUBIC YARDS
FOR ACTIVITIES: 421, 437, 457

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FEET X FEET X .08 / 27 CUBIC FEET = CUBIC YARDS
CHART IS BASED ON 1 INCH IN DEPTH, FIND LENGTH AND WIDTH
ON THE CHART. TAKE THE NUMBER FROM THE CHART AND MULTIPLY THE
THE FACTOR TIMES DEPTH TO GET CUBIC YARDS.

Effective Date: July 1, 1996
CONVERSION CHART 6 - m
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FOR ACTIVITIES: 425, 432, 433, 459, 493, 534, 540

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Effective Date: July 1, 1996
## CONVERSION CHART 6

**SQUARE YARDS**

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1,000 meters = 1 kilometer
1 meter = 0.001 kilometer

Effective Date: July 1, 1996
CONVERSION CHART 4

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FOR ACTIVITIES: 431, 532, 542, 543, 545

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Effective Date: July 1, 1996
## Conversion Chart 3

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**Effective Date:** July 1, 1996
## CONVERSION CHART 2

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FOR ACTIVITIES: 492, 544, 787, 995, 996

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For a depth other than 25mm, divide that depth in mm by 25 then multiply the result by the appropriate factor from the chart.

(Note: One Metric Ton Equals 2.2 Tons)

Effective Date: July 1, 1996
## CONVERSION CHART 1

**TONS PER INCH OF ASPHALT IN PLACE**

**FOR ACTIVITIES: 411, 412, 414**

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For a depth other than 1 inch, multiply the appropriate factor obtained from the chart by the depth in inches.

**Effective Date: July 1, 1996**