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Surface Water Runoff Downchute System

Mississippi "Magnolia" Chapter of SWANA
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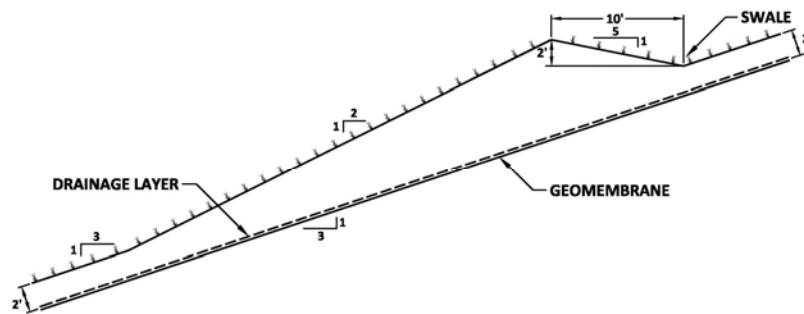
Surface Water Components on Landfill Slope

- Tack-on Swales (no terraces)
- Downchutes
- Erosion Control Mats

Tack-On Swales on Slope

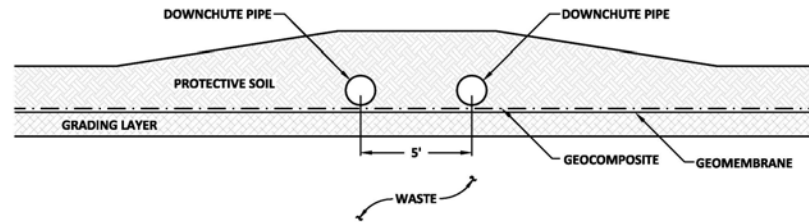
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Tack-On Swale on Slope



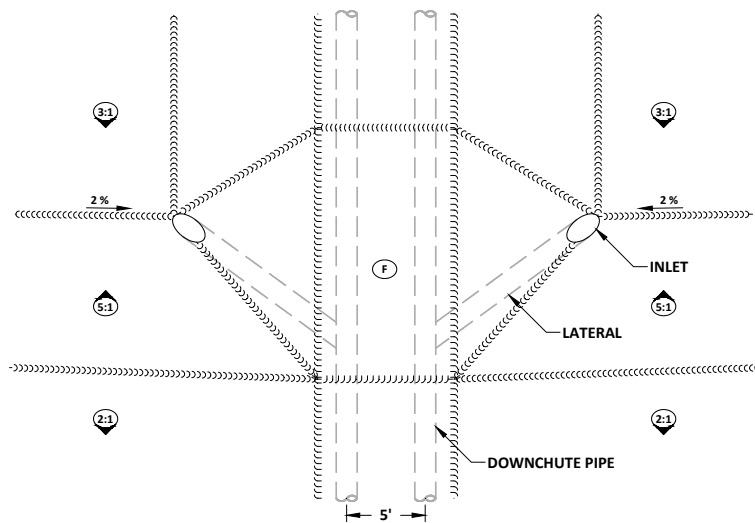
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Downchute Pipes in Cover System



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Downchute and Laterals at Swale



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Partial Closure Projects

- Okeechobee Landfill – five phases
- Medley Landfill – five phases
- Monarch Landfill – seven phases
- Naples Landfill – one phase

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Prepared Slope for Geosynthetics



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Grading Swale



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Checking Depth of Swale



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Checking Slope of Swale



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Shaping Swale



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Checking Width of Swale



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Completed Swale



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Slope Toward a Low Point



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Both Sides Sloping to a Low Point



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End of Swale



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Lower Tier Swale Completed



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Two Swales Completed



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Opening at Low Point



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Downchute Pipes

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Fabricated Downchute Pipe



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Downchute Pipe Placement on Slope



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Pipes in Place



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Lateral Chutes at Swales



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Downchute Pipes and Swales



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Pushing Soil Around Pipes



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Pushing Soil Around Pipes



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Placing Soil Over Pipes



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Placement of Soil over Pipes



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Shaping Mound Over Pipes



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Inlet to Pipes at Temporary Swale



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Inlet to Pipes at Temporary Swale



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Fabricating Downchute on Slope



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Pipes During Welding



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Pipes During Welding



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Completed Pipes



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Downchute Outlets



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Temporary Swale at Top

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Temporary Swale



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Low Point in Temporary Swale



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Erosion Mat at Lateral Chutes

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Preparation for Fabriform



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Pre-Fabricated Geotextile



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Placement of Geotextile



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Placement of Geotextile in Anchor Trench



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Lateral Pipe Locations Marked



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Finishing Geotextile Placement



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Grout in Anchor Trenches



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Working to Fill Voids with Grout



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Pumping Grout into Geotextile



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Pumping Grout into Geotextile



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Pumping Grout into Geotextile



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Pumping Grout into Geotextile



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Pumping Grout into Geotextile



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Grouting Completed



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Fabriform Around Inlet



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One-Half of Lateral Chute System



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Extent of Fabriform



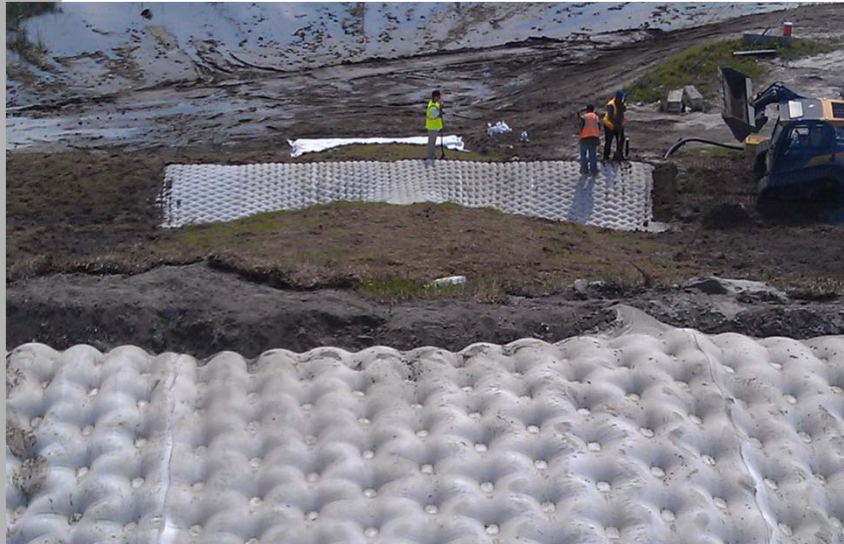
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Finishing Ground Work



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Two Lateral Chutes and Outlet



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Erosion Mat at Inlet

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Inlet at Temporary Swale



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Inlet at Temporary Swale



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Erosion Mat at Outlet

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Anchor Trenches for Geotextile



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Upper End at Hump Over Pipe



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Deployment of Geotextile



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Completed Geotextile



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Pumping Grout into Geotextile



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Pumping Grout into Geotextile



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Pumping Grout into Geotextile



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Grout Fill Extended into Anchor Trenches



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Grouting Complete



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Grouting Complete



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Completed System



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Storm Water Out of Downchute



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Storm Water Out of Downchute



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Thank You for Your Time

Questions?

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