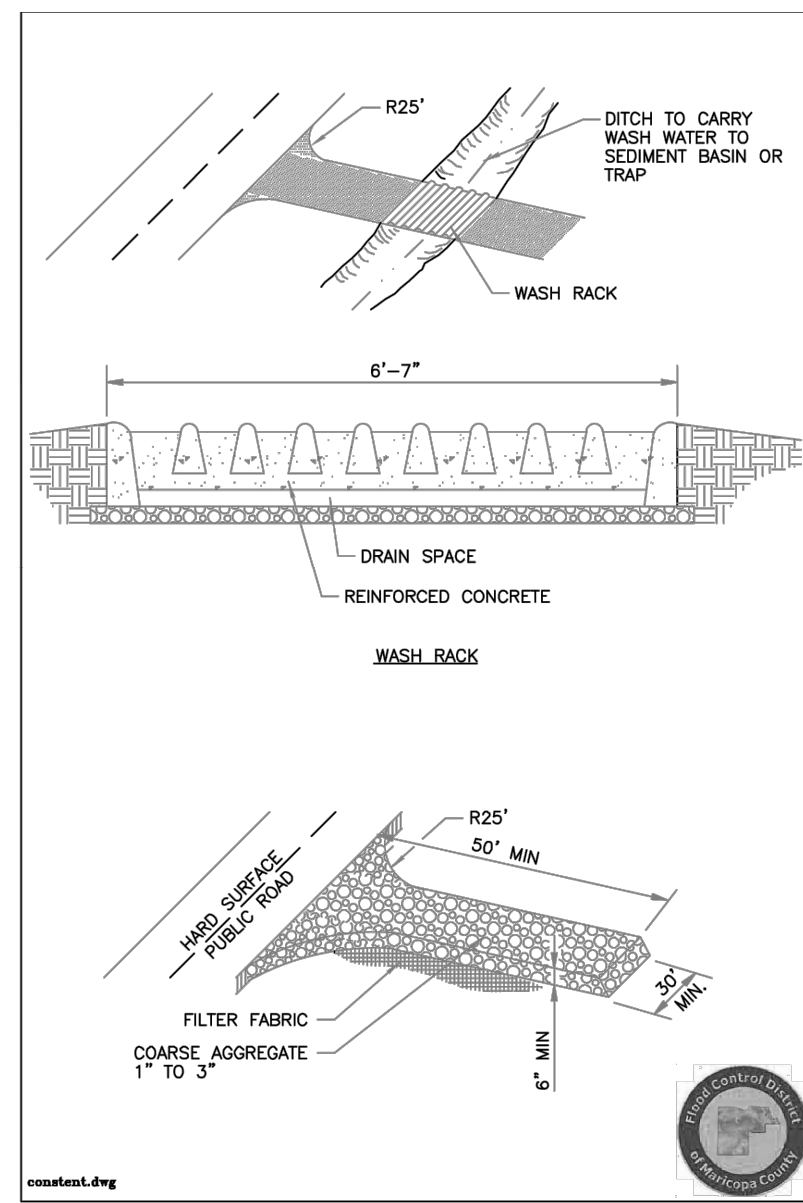


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Drainage Design Manual for Maricopa County Erosion Control: Best Management Practices  
**EC-5 Stabilized Construction Entrance Drawing**



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Drainage Design Manual for Maricopa County Erosion Control: Best Management Practices

**PURPOSE**

Proper chemical management prevents, or at least minimizes stormwater runoff from being polluted through spills or other forms of contact. It is not intended to supercede or replace normal site assessment and remediation procedures.

**APPROPRIATE APPLICATIONS**

Chemical management practices, along with the applicable OSHA, DOT, and EPA guidelines, should be incorporated at all construction sites that use or generate potentially hazardous wastes. Target chemicals include:

- Paints, solvents, and stains
- Wood preservatives
- Fuel, lube oils, grease, and cutting oils
- Roofing tar
- Pesticides, herbicides, and fertilizer
- Antifreeze

**LIMITATIONS**

- Chemical management practices are not intended to address site-assessments and pre-existing soil and water contamination. Major contamination and large spills require immediate response from spill-response personnel.
- Demolition activities and potential pre-existing materials, such as lead-based paint and asbestos in building materials, are not addressed by this practice.
- Chemical management practices cover general procedures and are not intended for products and uses that may require additional safeguards.

**RECOMMENDED STANDARDS AND SPECIFICATIONS**

The best method for controlling chemical pollution is to provide adequate controls at the point of storage and use. The following recommendations are intended to prevent, and/or minimize contamination of runoff:

**Storage and Labeling Procedures**

- Where possible, cover stockpiled materials indoors or with a temporary roof structure. Do not allow water to pond around stored drums.

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Drainage Design Manual for Maricopa County Erosion Control: Best Management Practices  
**EC-7 EC-7: Dust Control**

**DEFINITION**

A comprehensive plan to limit offsite sediment depression by minimizing or controlling airborne fugitive dust.

**GENERAL INFORMATION**

**Applicability - Effectiveness**  
Perimeter and Access Controls - high  
**Most effective when used with:**  
EC-5 Stabilized Construction Entrance  
EC-6 Construction Road Stabilization  
GH-6 Road Sweeping/Trackout Cleaning  
**Alternative BMPs:**  
For long term dust control, consider SPEC-6, Revegetation

**RATINGS**

Associated Costs	H	M	L
Implementation			X
Maintenance	X		
Training			X
Target Pollutants Removal	H	M	L
Oil and Grease			X
Nutrients			X
Sediment	X		
Floatable Material			X
Metals		X	
Other Construction Waste			X

**FIGURES**

**Photos/Sketches**  
EC-7 Dust Control Photos  
**Tables**  
Commonly Used Dust Suppressants

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Drainage Design Manual for Maricopa County Erosion Control: Best Management Practices

- Do not pinch a drum with a forklift when unloading or moving.
- If moving multiple drums (i.e. on a pallet), make sure they are held together with shrink wrap or a steel band.
- Mark any damaged containers.
- Do not store chemicals, drums, and bagged materials directly on the ground. Use secondary containment platforms or wooden pallets.
- Provide spill containment dikes around chemical and fuel storage tanks. Line with plastic film to prevent soil contamination.
- When possible, keep chemical products in their original containers, bungs on lids closed (except during use), and labeled in accordance with DOT and EPA regulations. Use proper devices to transfer chemicals from one container to another.
- Containment areas that have collected precipitation should not be drained until the site supervisor has ensured that the drainage will not contaminate surrounding soil.
- **Waste Handling and Disposal Procedures**  
Ensure that adequate hazardous waste storage space is available, hazardous waste collection containers are conveniently located, and that adequate cleanup and containment materials are available onsite.
- Store hazardous wastes in an appropriate type of container and properly labeled per EPA, OSHA, and DOT regulations.
- Consult with the local municipality jurisdiction as to whether wash up water from water-based paints may go into a sanitary sewer.
- Regularly dispose of oil-based paints, solvents, thinners, and mineral spirits through a licensed waste management firm.
- Follow the recommendations of the manufacturer to dispose of construction chemicals such as curing compounds, form releases, etc.
- Follow the manufacturer's instructions regarding the intended use, protective equipment, ventilation, flammability, and mixing of chemicals.

The effectiveness of chemical management is enhanced when the following BMPs are also implemented: Solid Waste Management, Equipment Maintenance Procedures, and Spill Containment Plan

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**GH-1 GH-1: Chemical Management**

**DEFINITION**

Chemical management includes the proper labeling, handling, storage and disposal of chemical products.

**GENERAL INFORMATION**

**Applicability - Effectiveness**  
Initial Drain Protection - high  
Debris Management, Cleanup, and Washout - moderate  
Equipment Storage/Maintenance - high  
**Most effective when used with:**  
Protect excavated areas before runoff enters by using:  
GH-2 Solid Waste Management  
GH-3 Equipment Maintenance Procedures  
GH-5 Spill Containment Plan  
**Alternative BMPs:**  
None

**RATINGS**

Associated Costs	H	M	L
Implementation		X	
Maintenance		X	
Training		X	
Target Pollutants Removal	H	M	L
Oil and Grease	X		
Nutrients	X		
Sediment			X
Floatable Material			X
Metals		X	
Other Construction Waste	X		

**FIGURES**

**Photos/Sketches**  
GH-1 Chemical Management Photos  
**CAD Drawings**  
None

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Drainage Design Manual for Maricopa County Erosion Control: Best Management Practices

**RECOMMENDED MAINTENANCE AND INSPECTION**

Various components of a Chemical Management program must be continually maintained and revised:

**Educating workers**

- Safety procedures for proper construction site chemical storage and management.
- Identification of potential sources of chemical pollutants.
- Spill prevention and response procedures.
- Potential dangers to humans and the environment from chemical pollutants.
- Establish a continuing education program to educate new employees.

**Quality Assurance**

- Foreman and/or construction supervisor should monitor onsite chemical storage and disposal procedures.
- Educate and if necessary, retain and/or discipline workers who violate procedures.
- Ensure the hazardous waste disposal contractor is reputable and licensed.

**Emergency Response Plan**

As specified by the local Fire Department, revisions may be necessary to the Protected Chemical and Materials Storage Area Plan during the course of construction based upon materials to be stored on site.

If a spill occurs which equals or exceeds the reportable quantity (RQ) for a 24-hour period as defined by the EPA in 40 CFR Part 110, 40 CFR Part 117, and 40 CFR Part 302, then:

- Report spill to the National Response Center, 1-800-424-8802, within 24 hours. Also notify the Arizona Emergency Response Commission and the Maricopa County Emergency Management Department.
- Revise the Stormwater Pollution Prevention Plan (SWPPP) to show corrective actions.
- Notify local EPA Region IX office within 14 days.

**POST CONSTRUCTION METHODS**

If hazardous materials are stored onsite after the development is completed, proper chemical management procedures and structures should be maintained.

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REFERENCE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY BMP'S FOR ADDITIONAL INFORMATION.

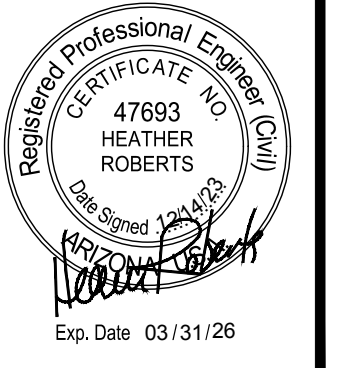
I hereby certify that this plan sheet substantially conforms to the standard detail provided by the Flood Control District of Maricopa County

**Kimley»Horn** © 2024  
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Mesa, Arizona 85210 (480) 207-2666



O'REILLY AUTO PARTS  
STORMWATER POLLUTION PREVENTION PLAN DETAILS  
GOODYEAR, AZ

PROJECT No. 291673000  
SCALE (H): ---  
SCALE (V): ---  
DRAWN BY: SSR/SJB  
DESIGN BY: SSR/SJB  
CHECK BY: HDR  
DATE: 12/14/2023



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02 OF 05 SHEETS