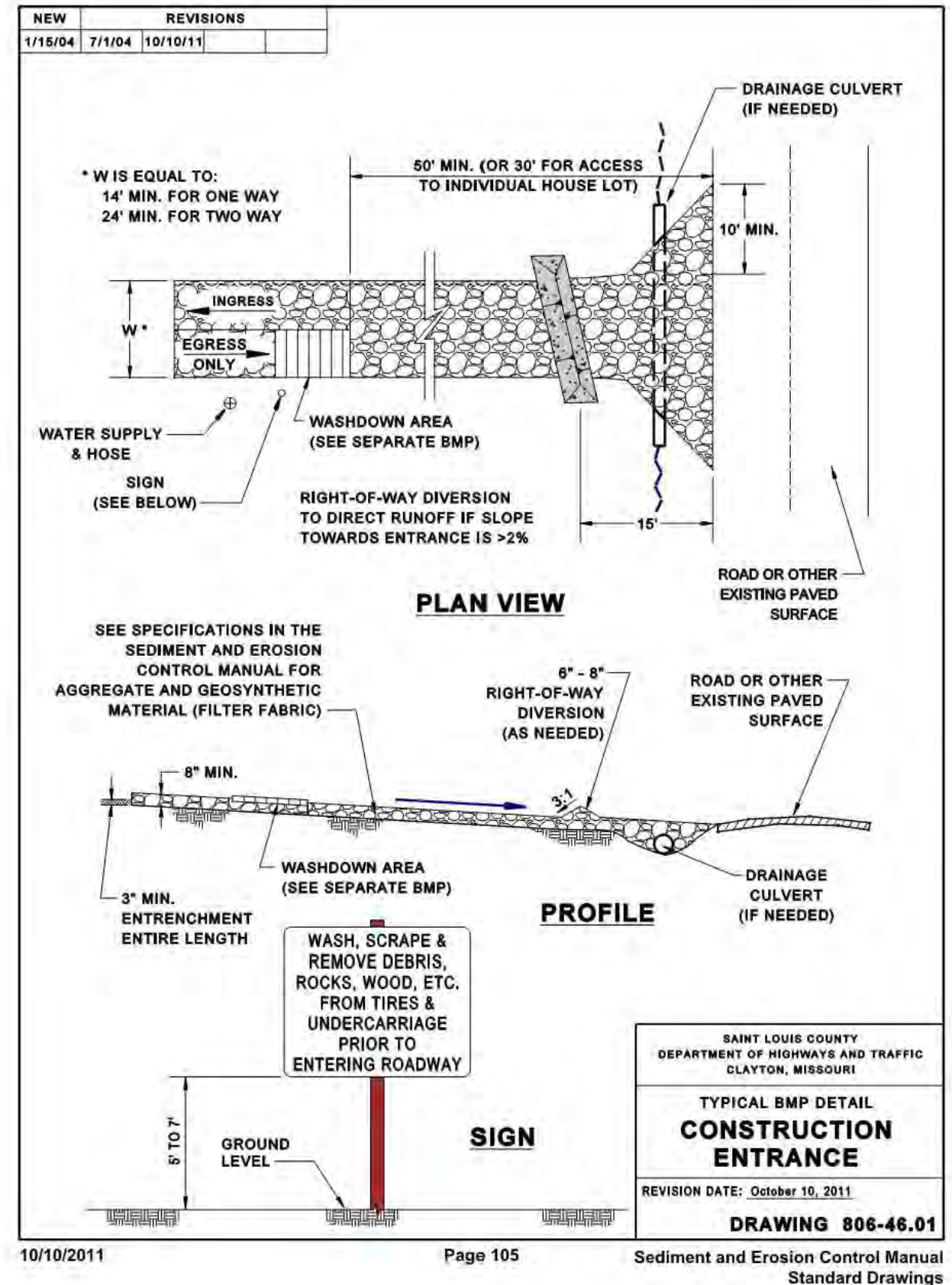


FILE LOCATION: K:\41029 - QuikTrip #0643 Mexico and Highway K\Civil\06-0643 DETAILS EROSION CONTROL.dwg TAB NAME: Erosion Detail Sheet 3 USER: rryer SAVED: 09/29/2015 8:11 AM PLOTTED: 12/16/2015 8:09 AM



CONSTRUCTION ENTRANCE

PHYSICAL DESCRIPTION - A stabilized entrance to a construction site designed to minimize the amount of sediment tracked from the site on vehicles and equipment. Stabilization generally consists of aggregate over geogrid and geosynthetic material. Mud and sediment fall off of tires as they travel along the stabilized entrance; however, additional measures in the form of a washdown area should also be included on site. The stabilized entrance also distributes the axle load of vehicles over a larger area; thereby mitigating the rutting impact vehicles normally have on unpaved areas. See additional in the "Construction Site Access Requirements" section of this manual.

WHERE BMP IS TO BE INSTALLED - At locations where it is safe for construction vehicles and equipment to access existing streets - preferably at location of future streets or drives.

CONDITIONS FOR EFFECTIVE USE OF BMP

Drainage: Ditches or pipes, if needed, sized for 15 year, 20 minute storm; HGL 6" below surface of entrance

WHEN BMP IS TO BE INSTALLED - First order of work, along with washdown area, prior to vehicles or equipment accessing unpaved areas.

INSTALLATION / CONSTRUCTION PROCEDURES

- ✓ Grade and compact area of construction entrance.
- ✓ Install culvert under entrance if needed to maintain positive drainage.
- ✓ Place geosynthetic material next to compacted soil, lay geogrid on top of this, and cover with aggregate, forming diversion across entrance if needed to direct runoff away from roadway.
- ✓ See Washdown Station BMP for additional steps.

O&M PROCEDURES:

- ✓ Immediately remove any mud or debris tracked onto paved surfaces.
- ✓ Remove sediment and clods of dirt from construction entrance continuously.
- ✓ Replace rock if necessary to maintain clean surface.
- ✓ Repair settled areas.

SITE CONDITIONS FOR REMOVAL - Remove when vehicles and equipment will no longer access unpaved areas.

TYPICAL DETAIL - 806-46.01

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SOIL BINDERS

PHYSICAL DESCRIPTION - A material sprayed onto the surface of exposed soils designed to protect against erosion from wind or runoff. The useful life of most products is 3 to 6 months. Examples of materials used include vegetable-based adhesives, copolymers, petroleum oils and resin-emulsions.

WHERE BMP IS TO BE INSTALLED - Typically used in disturbed areas and in combination with other BMP's such as perimeter controls, seeding or mulching.

CONDITIONS FOR EFFECTIVE USE OF BMP - Type of Flow: Sheet flow.

WHEN BMP IS TO BE INSTALLED - Immediately after completion of a phase of grading.

INSTALLATION / CONSTRUCTION PROCEDURES - Follow manufacturer's recommendations to maximize usefulness and avoid formation of pools or impervious areas where stormwater cannot infiltrate.

O&M PROCEDURES

- ✓ Inspect every week for damage from vehicles, runoff, or freeze-thaw conditions.
- ✓ Reapply product or utilize additional BMP.

SITE CONDITIONS FOR REMOVAL - Typically left in place to degrade naturally.

TYPICAL DETAILS - Not applicable.

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H1 CONSTRUCTION ENTRANCE DETAIL
NTS: SN:

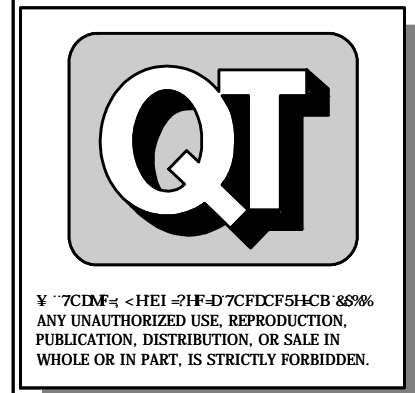
H8 SOIL BINDERS
NTS: SN:



PROJECT NO.: 141029
NAME: MICHAEL J. VELLOFF
LICENSE NUMBER: E-2000161862
DISCIPLINE: CIVIL
CORPORATION AUTHORITY NUMBER: 001194

THE SEAL OF MICHAEL J. VELLOFF ON THIS DRAWING APPLIES ONLY TO THE CIVIL/SITE ENGINEERING SHOWN. IT DOES NOT APPLY, NOR IS ANY RESPONSIBILITY TAKEN FOR ENVIRONMENTAL, GEOTECHNICAL (INCLUDING BUT NOT LIMITED TO SLOPE STABILITY), STRUCTURAL, HVAC, PLUMBING, ELECTRICAL, FIRE PROTECTION, TRAFFIC ENGINEERING, SURVEYING (BOUNDARY AND TOPOGRAPHIC), OR ARCHITECTURAL (BUILDING OR LANDSCAPE).

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PROTOTYPE: P-83
DIVISION: 06
VERSION: 001
DESIGNED BY: RKF
DRAWN BY: RKF
REVIEWED BY: MJV

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 07-24-15

SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NUMBER:
C552