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EROSION AND SEDIMENT CONTROL PLAN NARRATIVE.

SITE NAME: Murphy Ranch Estates Subdivision

OWNER/DEVELOPER: Davis Engineering, Inc. 1060 Kings Road, Rapid City,
SD 57702
Phone: 605-341-3095 Cell: 605-390-3219

ENGINEER: Davis Engineering, Inc., 1060 Kings Road, Rapid City, SD 57702
Email: rm70@q.com Phone: 605-341-3095 Fax: 605-341-7428

GENERAL CONTRACTOR: A contractor has not been hired yet.

PROJECT DESCRIPTION:

This is a continuation of Murphy Ranch Estates Subdivision that I started in 2004. We are developing 8 additional lots and revising one lot to allow a larger house on the lot. The work will consist of Asphalt Pavement, Concrete Curb and Gutter, Site Grading, Concrete Flat work, and Gravel sub grade preparation on all streets.

EXISTING SITE CONDITIONS:

The Site is a flat meadow that was previously used for agricultural purposes. A two Acre detention cell has been constructed on the site and all of the runoff from the subdivision runs directly into the cell. We are currently constructing the outlet structure and will have two silt fence lines filtering the inflows prior to leaving the pond. There are no unusual conditions that I know of.

ADJACENT AREA:

This project is bordered as follows:
East: Large acreage residential, farming operations. .
North: Private property used as residential.
West: Private property used as residential
South: Agricultural property .

AREA AND VOLUME DISTURBED:

The total surface area to be disturbed is approximately 80850 sq ft. Upon completion of the streets and infrastructure Home Builders will construct homes on the lots and will top soil all of the disturbed areas on the lots and then seed of sod.

EROSION CONTROL MEASURES and SEQUENCING:

The only control that we are proposing is silt fencing (detail submitted herewith). The silt fence will be installed prior to beginning construction. The silt fence will be maintained throughout the length of the project and will not be removed until all of the permanent soil stabilization have been completed. This will include seeding all disturbed areas and not removing the silt fence until all slopes are grass covered.

STORMWATER MANAGEMENT CONSIDERATIONS:

As discussed above “ Existing Site Conditions” this development has a two acre detention cell. All of the site drains into the cell and the cell will be maintained with grass cover and silt fences near the outlet structure.

MAINTENANCE:

This has been covered above under Erosion Control Measures. Weekly inspections will be done to insure that the silt fence remains in good working order. Inspection and maintenance procedures will continue until all disturbed areas have reached final stabilization.

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SPILL PREVENTION:

Petroleum products: Onsite construction equipment will be monitored for leaks and the equipment will receive preventative maintenance.

Chemicals and fertilizers: We do not anticipate the use of chemicals or fertilizers on this project

Concrete Trucks: Concrete trucks, if used on this project, will not be allowed to discharge surplus concrete on this site unless a washout area had been designated.

SPILL CONTROL PRACTICES:

Chemical and petroleum product spills of Toxic or Hazardous material will be reported to the appropriate Federal, State or Local Government agency. All spills will be cleaned up immediately after discovery.

SOIL SURFACE STABILIZATION PRACTICES:

After construction begins, soil surface stabilization shall be applied within 14 days to all disturbed areas that may not be at final grade but will remain dormant (undisturbed) for periods of longer than 21 days. Within 14 days after final grade is reached on any portion of the site, permanent or temporary stabilization shall be applied to disturbed areas and soil stockpiles.

SITE PLAN:

The site plan shows all of the construction that will be done on this site. Existing and proposed contours are shown at a one foot interval. This site is mostly concrete or asphalt surfacing. There is no need for additional vehicle tracking control.

NOTICE OF INTENT:

A Notice of Intent will be filed with SD DENR prior to beginning construction. The owner, responsible party, will be available at the termination of this project to terminate this project.

WETLANDS:


There are no wetlands associated with this project.

DEWATERING:

Dewatering is not expected on this site. If the need arises a general dewatering permit will be obtained from the SD DENR.

EROSION AND SEDIMENT CONTROL PLAN CERTIFICATION:

This erosion and sediment control narrative and attached erosion and sediment plan appears to fulfill the technical criteria and the criteria for erosion control and the requirements of the City of Rapid City. I understand that additional erosion and sediment control measures may be needed if unforeseen erosion problems occur or if the submitted plan does not function as needed. The requirements of this plan shall run with the land and be the obligation of the responsible party until such time as the plan is properly completed, modified, or voided.



Owner/Developer:


5-29-09
Date:

General Contractor (optional)

Date:

ENGINEER'S CERTIFICATION:

I hereby certify that this report and the attached site plan was prepared by me and that I am a registered professional engineer #3095 of the State of South Dakota.



Engineer

5-29-09
Date: