

Fisk Land Surveying & Consulting, Inc.
 1022 Main Street (P.O. Box 8154)
 Rapid City, South Dakota 57709
 (605) 348-1538
 (605) 341-1112 (fx)

KOA Caretaker Planned Development
 Tract A
 SE 1/4 SW1/4 of Section 4 & NE1/4 NW1/4
 Section 9, T1N, R8E, BHM, Rapid City,
 Pennington County, South Dakota

Surveyed by: ML,BL
Date 12/09
Drawn by: RWF
Checked by: JF
Revisions
Erosion & Sediment Plan 6 of 7
Project No. 09-10-06

DETAIL KEY

- (IP)** Inlet Protection – Use Wattle
- (W)** Erosion Control Wattle – Detail 146-32
- (ST)** Temporary Sediment Trap – Detail 146-13
- (CWA)** Concrete Washout Area – Detail 146-31

ONE CALL
 BEFORE DIGGING
 1-800-781-7474

EROSION AND SEDIMENT CONTROL NARRATIVE

<u>Site Name</u>	<u>Owner/Developer</u>	<u>Engineer</u>	<u>General Contractor</u>
KOA Caretakers Residence 2001 Lancer Drive Tract A SE4SW4, S4, & NE4 NW4, S9 T1N, R8E	J. Alan Johnson PO Box 295 Hill City, SD 57745	Fisk Land Surveying & Consulting Engineers, Inc. P.O. Box 8154 Rapid City, SD 57709	Undetermined

PROJECT DESCRIPTION

Project consists of placement of a manufactured home, (w/ associated appurtenances) asphalt paving and very minor grading for WQCV and detention.

EXISTING SITE CONDITIONS

The site is a gravel parking and circulation area for a commercial business.

ADJACENT AREAS

North: Commercial
East: Commercial
South: Commercial
West: Commercial

SOILS

Unknown

AREA AND VOLUME DISTURBED

Disturbed area consists of minor site grading on 2,400 SF of existing gravel parking, excavation for proposed manufactured home (75'x35') and grading for WQCV & detention.

The total area to be disturbed is 7,000± SF.
The total volume to be disturbed is 270± CY.

EROSION CONTROL MEASURES

Erosion control wattles, Inlet protection

AREA FOR STOCKPILES AND STORAGE

No storage areas are required.

EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCE

Phase 1: Install Contact Information Sign prior to initial inspection and prior to excavation. (See Plan)

Phase 2: Install exterior wattles, construct WQCV/detention and install inlet protection/sediment trap (as shown on the attached plans). Install asphalt parking/circulation and manufactured home. Phase 1 measures to remain in place.

Phase 3: When disturbed area is stabilized, remove erosion control wattles and inlet protection/sediment trap and file notice of termination with the State.

CONSTRUCTION AND ESC SEQUENCE SCHEDULE PERMANENT STABILIZATION MEASURES

Upon completion of construction activities install sod or seed/mulch on disturbed, unpaved areas, and water turf until vegetation is established.

STORMWATER MANAGEMENT CONSIDERATIONS

Stormwater from landscaping improvements will flow west, south to the Lancer Land ditch and thence directly into the Hawthorne irrigation ditch a continuation of the previously developed condition in the Rapid Valley Unnamed Tributary Basin.

MAINTENANCE

Inspection of Erosion and Sediment Control Measures should be scheduled weekly and following any storm event of 0.5 inches or greater. All measures will be maintained in good working order. Inspection and maintenance will continue until all disturbed areas have reached final stabilization. Paved streets adjacent to the site shall be cleaned at the end of each working day to remove sediment buildup from construction activities.

SPILL PREVENTION

Petroleum Products: Onsite construction equipment will be monitored for leaks & receive regular preventative maintenance. Asphalt, Chemical and Fertilizers: The use of fertilizers is anticipated. Concrete Trucks: Concrete Trucks will discharge surplus concrete only in designated Concrete Washout Areas.

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 longer than 21 calendar days. Within 14 days after final grade is reached on any portion of the site, permanent or temporary soil surface stabilization shall be applied to disturbed areas and soil stockpiles.

MAXIMUM LIMITS OF LAND EXPOSURES FOR SELECTION OF EROSION CONTROLS

Erosion Control Method	Max Allowable period of exposure (months)
Surface Roughening	N/A
Mulching	12
Temporary Revegetation	12-24
Permanent Revegetation	24 or more
Soil Stockpile Revegetation	2
Early Application of Road Base	1

SITE PLAN

The existing elevations are shown with spot elevations. The proposed are indicated at appropriate locations. The wattles and silt fences are shown on the plan.

NOTICE OF INTENT (Permit No _____)

A notice of intent has not been filed with DENR.

WETLANDS

No wetlands will be impacted with this project.

DEWATERING

Dewatering operations are not expected. If needed, a general dewatering permit will be obtained from 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 intended. 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 completed, modified or voided.

Owner/Developer

Date

ENGINEER'S CERTIFICATION

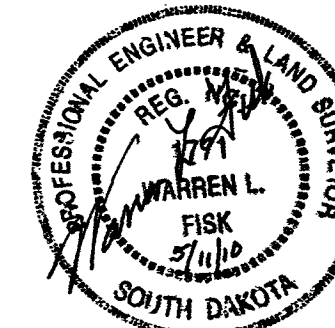
I hereby certify that these plans were prepared under my direct supervision and that I am a duly registered Professional Engineer under the laws of the State of South Dakota.

Warren L. Fisk

Engineer

5/11/10

Date



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ESC PLAN NARRATIVE
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Project No. 09-12-01