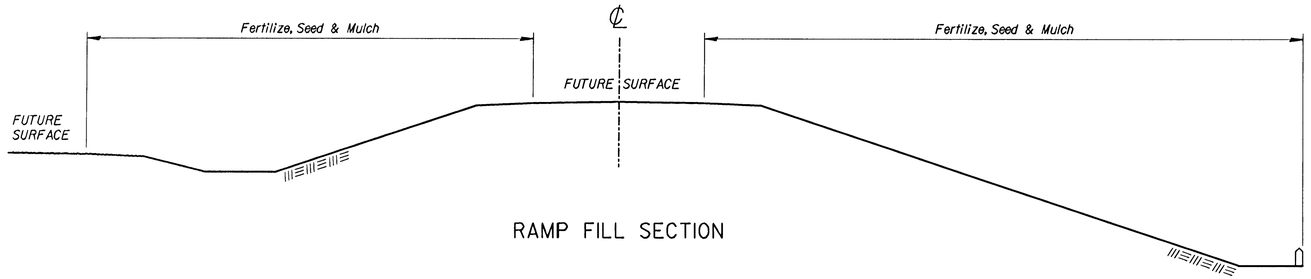
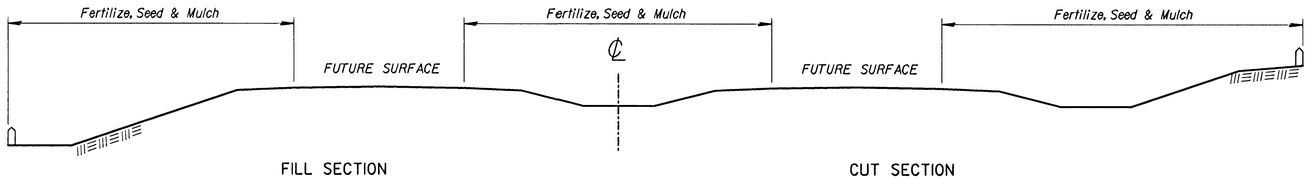



RAMP CUT SECTION

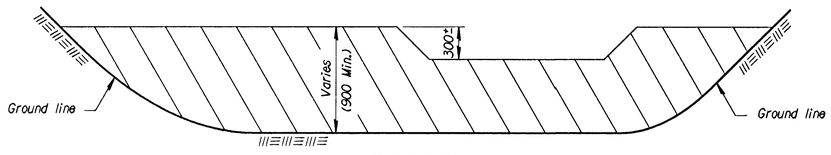



RAMP FILL SECTION

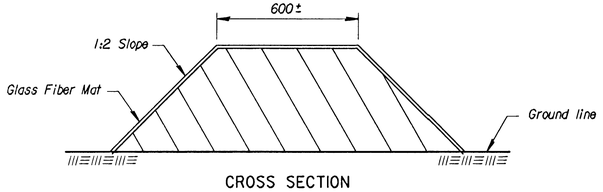



FILL SECTION CUT SECTION

TYPICAL SECTION -- DUAL PAVEMENT




ELEVATION




CROSS SECTION

*Cover dike with glass fiber mat, soil retention blanket, or other similar material as approved by the Engineer. The dike and basin shall be of sufficient size to handle the anticipated silt load. The basin shall be utilized at locations of expected heavy silt carrying runoff from slopes, terraces or other similar areas.*

TYPICAL DIKE FOR SILTING BASIN

| FHWA REGION NO. | STATE | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | KANSAS | 87N-0116-01 | 1999 | 52 | 110 |

GENERAL: The entire disturbed area, excepting the paved or surfaced areas, steep rocky slopes and areas of undisturbed native sod or other desirable vegetation shall be fertilized (limed when required), seeded, and mulched. Soil preparation shall conform to the Standard Specifications.

Temporary seeding shall be done during any time of the year that the soil can be cultivated. After the temporary seeding has been completed on the entire project, a permanent seeding shall be done by another project during the normal seeding season.

The Contractor will be required to finish areas of excavation, borrow and embankment in accordance with the specifications. Areas that require installation or construction of temporary water pollution control items will be finished in reasonable close conformity to the alignment, grade and cross section shown on the plans or as established by the Engineer.

FERTILIZER: A ratio and application rate that equals or exceeds the required minimum rate per hectare of N, $P_2O_5$, $K_2O$ listed in Summary of Quantities will be acceptable.

MULCHING: Mulch shall be spread uniformly over all disturbed areas and punched in the soil, unless otherwise noted on the plans. The rate of application per hectare, thickness in place, for the various mulching materials are as follows:

| | | | | |
|---|---|---|---|---|
| Prairie Hay | 3,900 - 5,000 | Kilograms per Hectare | = | 40mm loose depth spread uniformly over hectare. |
| Bromegrass | 3,900 - 5,000 | Kilograms per Hectare | = | 40mm loose depth spread uniformly over hectare. |
| Wheat or Oats Straw | 3,400 - 4,500 | Kilograms per Hectare | = | 80mm loose depth spread uniformly over hectare. |
| Wood Chips | 9,000 - 11,200 | Kilograms per Hectare | = | 25-50mm loose depth spread uniformly over hectare. |
| Wood Fiber | 1,700 - 2,200 | Kilograms per Hectare | = | loose depth spread uniformly over hectare. |
| Other vegetative mulches (Acceptable only with the Engineer's concurrance). | | | | |

The above rates are a guide. It will be at the discretion of the Engineer to determine what rate is sufficient for adequate protection of newly seeded areas.

The amount of mulch in the bid quantities is estimated. The total mulch required shall be determined in the field. The bid item for mulching shall be paid for by one of the following ways: A) Plan quantity as shown on Summary of Quantities, Seeding Sheet or Water Pollution Control Sheet, B) Slope measurement as measured in field, or C) Drill measurement less 5% as measured at the time of seeding.

(FOR INFORMATION ONLY)

SUMMARY OF SEEDING QUANTITIES: PROJECTS OF 2 HA. OR MORE

| P.L.S. RATE/ HECTARE | HECTARES | BID ITEM | QUANTITY | UNIT |
|---|---|---|---|---|
| 225 | 1.8 | Fertilizer | 405 | kg |
| 300 | 1.8 | Ryegrass Seed | 540 | kg |
| | | Foxtail Millet Seed | | kg |
| | | Agricultural Limestone | | tons |
| | | Temporary Berm | | m |
| | | Temporary Ditch Check | | m |
| | | Temporary Inlet Sediment Barrier | | Each |
| | | Temporary Sediment Basin | | cu m |
| | | Temporary Slope Barrier | | m |
| | | Temporary Slope Drain | | m |
| | | Temporary Stream Crossing | | Each |
| | | Sediment Removal ( Set ) | | cu m |
| * | | WATER POLLUTION CONTROL (SOIL EROSION)(SET) | 1 | L.S. |
| | | Mulching ( Temporary ) | 1.8 | ha |

SUMMARY OF SEEDING QUANTITIES: PROJECTS LESS THAN 2 HA.

| P.L.S. RATE/ HECTARE | HECTARES | BID ITEM | QUANTITY | UNIT |
|---|---|---|---|---|
| | | Fertilizer | | kg |
| | | Ryegrass Seed | | kg |
| | | Foxtail Millet Seed | | kg |
| | | Agricultural Limestone | | tons |
| | | Seeding ( TPWPC ) | | LS |
| | | Temporary Ditch Check ( Straw or Hay Bales Only ) | | m |
| | | Temporary Slope Barrier ( Silt Fence Only ) | | m |
| | | Water Pollution Control ( Soil Erosion ) ( Set ) | | LS |
| | | Sediment Removal ( Set ) | | cu m |
| | | Mulching ( Temporary ) | | ha |

Revised 7/99

* BID ITEM TO BE LUMP SUM "TEMPORARY PROJECT WATER POLLUTION CONTROL (SOIL EROSION)"

| NO. | DATE | REVISIONS | BY | APP'D |
|---|---|---|---|---|
| 5 | 4/20/98 | Revised Summary of Quantities | WCL | RDR |
| 4 | 12/31/97 | Revised Summary of Quantities | WCL | RDR |
| 3 | 3/17/97 | Revised Summary of Quantities | WCL | RDR |
| 2 | 7/3/95 | Revised: Convert to SI | WCL | RDR |
| 1 | 4/21/95 | Revised: Removed Typical Dike Detail | WCL | RDR |

KANSAS DEPARTMENT OF TRANSPORTATION

TEMPORARY PROJECT WATER POLLUTION CONTROL (SOIL EROSION)

LA852A SI

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| F.H.W.A. APPROVAL | | | 5-15-98 | APP'D | | Richard D. Ross | |
| DESIGNED | WCL | DETAILED | WCL | QUANTITIES | | TRACED | DAK |
| DESIGN CK. | RDR | DETAIL CK. | RDR | QUAN.CK. | | TRACE CK. | WCL |

Drawn By : $$USERNAME$$
DGN File : $$$$$$$$$$$$$$$$CONSPEC$$$$$$$$$$$$$$$$
Plotted : $$$$$$$$STIME$$$$$$$$ View- PLOT 1