EROSION CONTROL NOTES

During all phases of construction the site general contractor and all sub-contractors shall exercise measures to prevent the erosion of soils due to the action of water and wind. The contractors shall use the following measures to accomplish this objective:

A. Surface Protection
   1. Clearing shall be limited so as to expose the smallest possible area of land for the shortest possible time.
   2. Exposed areas shall be immediately graded and protected with temporary or permanent cover, such as sod, seed and mulch, crown vetch, lespedeza or creeper. Newly graded channels or steep slopes will require the use of fibrous matting, netting of seeded and mulched areas, or the staking or shingling of sod while vegetation is becoming established.

B. Run-off Control
   1. Long and/or steep slopes will require contour benching and furrowing, or berms to reduce run-off velocities.

C. Sediment Trapping
   1. The trapping of eroded particles will be accomplished by the diversion of run-off to sediment basins, excavation traps, berms, staked hay bales, or floating silt curtains.
   2. The proposed retention and/or detention pond(s) along with any environmental berm(s)/rear yard swale(s) shall be constructed first. The pond(s) and outfall structure(s) must be complete and operational prior to the placement of any impervious surface.
   3. Trapping devices shall be periodically inspected during dry periods and after each rainfall event by the site contractor. Trapping devices shall be replaced if determined to be incapable of performing intended function of sediment trapping.
   4. Trapping devices shall remain in place until a vegetative cover has established sufficiently to stabilize the soils and prevent erosion.

D. Soil Moisture
   1. The contractor shall have available on the construction site a water source capable of applying water to dry exposed soil in order to prevent wind erosion. The application rate and manner shall be such that soil moisture is attained and no surface run-off is created.

E. Responsibility
   1. The contractor shall be held responsible until the Certificate of Completion is issued. After that, the Owner will be responsible for maintenance of the stormwater collection and detention system.

SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
PERMANENT SEEDING				A	*	/	/	/	/	*		
DORMANT SEEDING	B										B	
TEMPORARY SEEDING				C					D			
SODDING				E**	*	/	/	/	/	*		
MULCHING	F											

A = INDOT SEED MIXTURE TYPE "R" – 170 LBS/ACRE
PLUS 2 TONS STRAW MULCH/ACRE.

B = KENTUCKY BLUEGRASS 60 LBS/ACRE; CREEPING RED FESCUE 60 LBS/ACRE;
PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 30 LBS/ACRE.

C = INDOT SEED MIXTURE TYPE "I" SPRING OATS – 150 LBS/ACRE

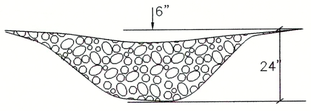
D = INDOT SEE MIXTURE TYPE "I" WINTER WHEAT – 150 LBS/ACRE

E = SOD

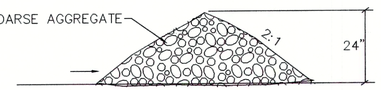
F = STRAW MULCH 2 TONS/ACRE

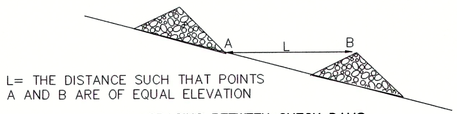
/I/I/ IRRIGATION NEEDED DURING JUNE, JULY, AND/OR AUGUST.

** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.



ROCK CHECK DAM



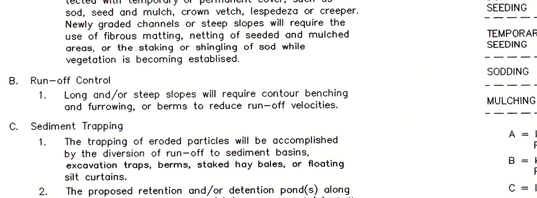


L= THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

SPACING BETWEEN CHECK DAMS

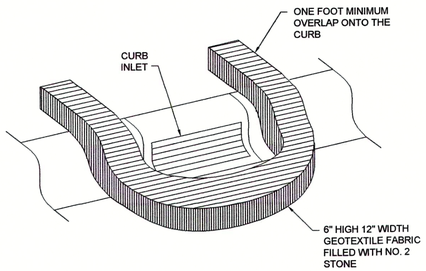
DETAIL - CHECK DAM

SCALE: N.T.S



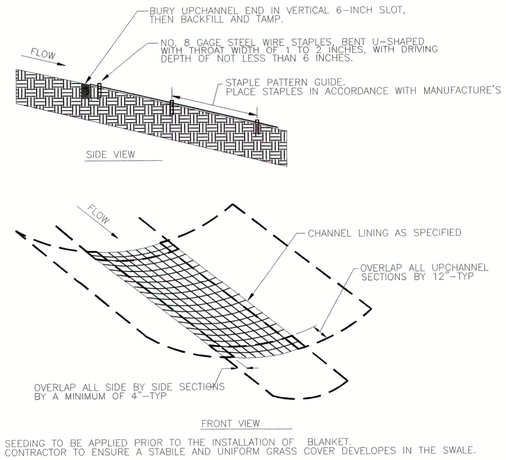
DETAIL - INLET SEDIMENT FILTER

SCALE: N.T.S



INLET PROTECTION DETAIL

SCALE: N.T.S.

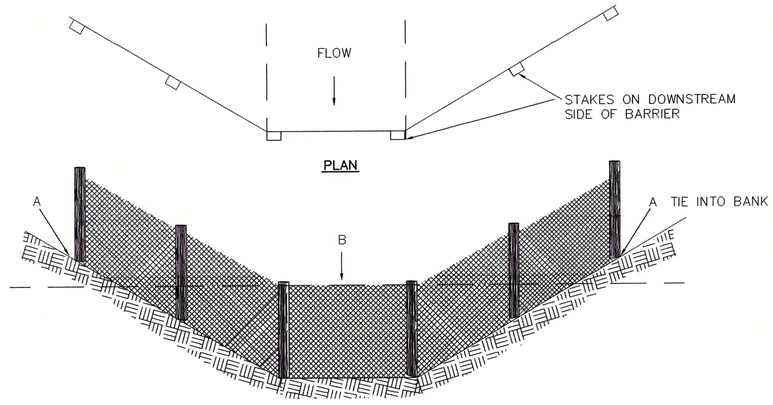


SEEDING TO BE APPLIED PRIOR TO THE INSTALLATION OF BLANKET. CONTRACTOR TO ENSURE A STABILE AND UNIFORM GRASS COVER DEVELOPES IN THE SWALE.

EROSION CONTROL BLANKET INSTALLATION DETAIL

SCALE: N.T.S.

IN EVENT OF A HAZARDOUS SPILL, CONTACT
MADISON EMERGENCY MANAGEMENT AGENT: (765) 642-0221

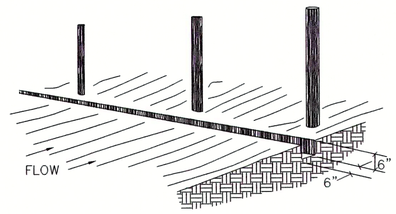


POINT A SHOULD BE HIGHER THAN POINT B

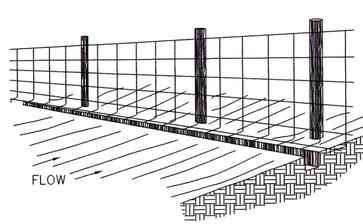
DETAIL - LOW VELOCITY SWALE APPLICATION PLACEMENT OF FILTER BARRIER IN DRAINAGE WAY

SCALE: N.T.S

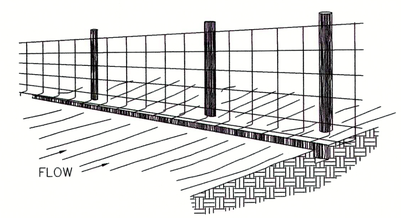
NOTE: FIBER ROLLS OR COMMERCIAL SILT CHECK PRODUCTS MAY BE USED. INSTALL IN SIMILAR MANNER. TIE EDGES INTO SIDES AND TOP OF BANK.



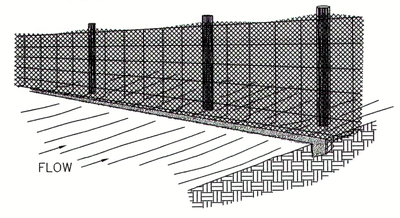
1. EXCAVATE A 6"X6" TRENCH BELOW BARE SOIL AREA



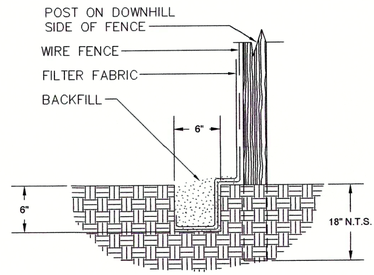
2. DRIVE STAKES (& WIRE FABRIC) IN AGAINST DOWNHILL SIDE OF TRENCH



3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH



4. BACKFILL AND COMPACT THE EXCAVATED SOIL



EXTENSION OF POST, FABRIC AND WIRE INTO THE TRENCH

DETAIL - REINFORCED SILT FENCE CONSTRUCTION PROCEDURES

SCALE: N.T.S

NOTE: REGULAR SILT FENCE WITHOUT WIRE FENCING TO BE INSTALLED IN SAME MANNER.

JOSEPH P. TIERNEY
REGISTERED
No. 19300407
STATE OF INDIANA
PROFESSIONAL ENGINEER

BID SET

GRW PROJECT NO. 4447-14
SRF NO. WW160748O3 -----

GRW
engineering | architecture | geospatial
www.grwinc.com

EROSION CONTROL DETAILS
SANITARY SEWER REHABILITATION
FALL CREEK REGIONAL WASTE DISTRICT
PENDLETON, INDIANA

DESIGNED	DRAWN	REVIEWED	APPROVED
GWL	GCR	JPT	JPT

REVISIONS			
NO.	DESCRIPTION	DATE	BY
---	---	---	---

THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED
SCALE CHECK

DATE: APRIL 2016
SCALE: N.T.S.
SHEET NO. C-18

PRINTED: 6/24/2016 @ 12:05PM
FILE NAME: G:\4447-FCRWD-2015\Working Drawings\AutoCAD\REHABILITATION PHASE I\4447-14-C-18-Erosion.dwg