



MATERIAL SPECIFICATIONS

BIO-LOG CHECK SHALL BE CONSTRUCTED OF AN OPEN MESH FABRIC AND FILLED WITH 100% SHREDDED MULCH OR OTHER NON-COMPOST BIODEGRADABLE MATERIAL. THE POSTS USED TO SUPPORT THE BIO-LOG CHECK SHALL BE OF HARD WOOD MATERIAL AND OF NOMINAL DIMENSIONS OF 2"x2"x4'-0".

SILT FENCE BARRIERS MAY BE CONSTRUCTED OF FABRIC CONFORMING TO AASTHO M288 96 SILT FENCE SPECIFICATIONS. THE POSTS USED TO SUPPORT THE SILT FENCE MATERIAL SHALL BE OF HARD WOOD MATERIAL AND OF NOMINAL DIMENSIONS OF 2"x2"x4'-0". SILT FENCE MATERIAL MAY BE FASTENED TO THE WOOD POSTS WITH STAPLES, WIRE AND OR NAILS.

PLACEMENT

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINE TO KEEP SEDIMENT FROM CROSSING INTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHODS

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER. DEPTH OF TRENCH TO BE 5" DEEP AND WIDTH PER SIZE OF BIO-LOG FOR BIO-LOG SLOPE BARRIERS AND 12" DEEP AND 6" DEEP FOR SILT FENCE BARRIERS.

MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW.

PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE.

FOR BIO-LOG SLOPE BARRIER, PLACE THE BIO-LOGS IN THE TRENCH, MAKING SURE THAT THEY OVERLAP A MINIMUM OF 18". INSTALL WOOD POSTS, MINIMUM 4' SPACING.

FOR SILT FENCE SLOPE BARRIER, ROLL OUT A CONTINUOUS LENGTH OF MATERIAL ON THE DOWNSTREAM SIDE OF THE TRENCH AND LINE TWO SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24"-36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. POSTS SHOULD BE DRIVEN AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

ONCE ALL THE BARRIER HAS BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSLOPE SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.

LIST OF PLACEMENT/INSTALLATION MISTAKES TO AVOID

WHEN PRACTICAL, DO NOT PLACE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. CONCENTRATED FLOW OVER A SLOPE BARRIER CREATES A SCOUR HOLE ON THE DOWNSLOPE SIDE OF THE BARRIER THE SCOUR HOLE EVENTRALLY UNDERMINES THE BIO-LOGS AND THE BARRIER FAILS. DO NOT PLACE BIO-LOG SLOPE BARRIER IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT. BIO-LOG SLOPE BARRIERS MUST BE DUG INTO THE GROUND. BIO-LOGS AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOUR OF RAINS OF 1/2 INCH OR MORE.

THE FOLLOWING QUESTIONS SHOULD BE ADDRESSED DURING EACH INSPECTION:

- ARE THERE THE ANY POINTS ALONG THE BARRIER WHERE WATER IS CONCENTRATING?
- DOES WATER FLOW UNDER THE SLOPE BARRIER?
- ARE BIO-LOGS DISLODGED OR DISPLACED? OR FENCE DETACHED FROM POSTS?
- IS THE FENCE DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE? OR SAGGING EXCESSIVELY?
- DOES THE SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

24/7 TRAVEL STORE
 2020
 24-7 TRAVEL STORE
 2710 Commerce Rd.
 Goodland, Kansas

DRAWINGS ISSUED		
NO.	DATE	ITEM ISSUED
1	9-4-20	ADDENDUM #1

COMPUTER DRAWING

DATE: AUGUST 2020
 DRAWN BY: _____ CHECKED BY: _____

SHEET

C1.11
 EROSION CONTROL
 DETAILS

OF _____ SHEETS