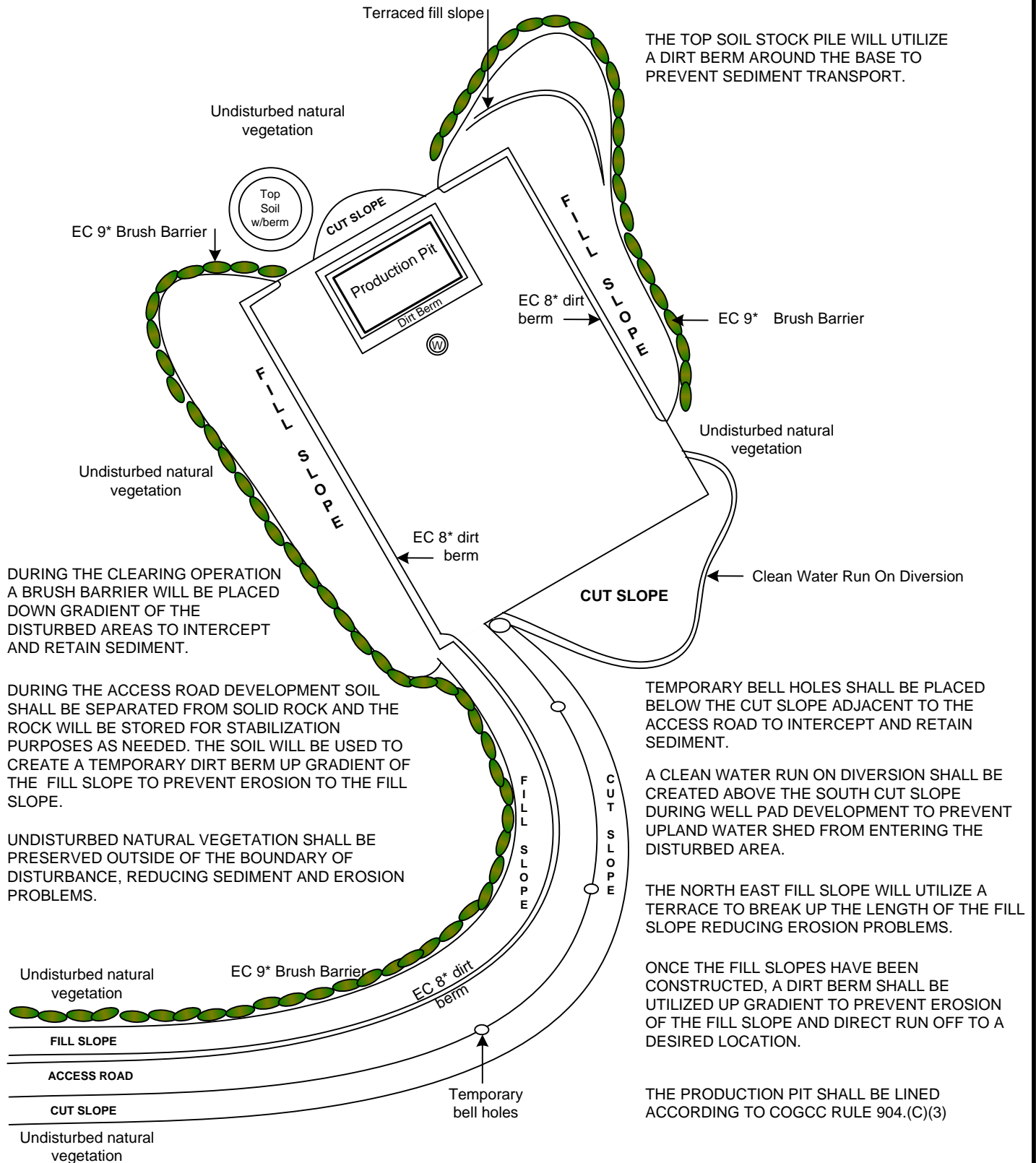


B.M.P. IMPLEMENTATION DURING CLEARING AND WELL PAD/ACCESS ROAD DEVELOPMENT



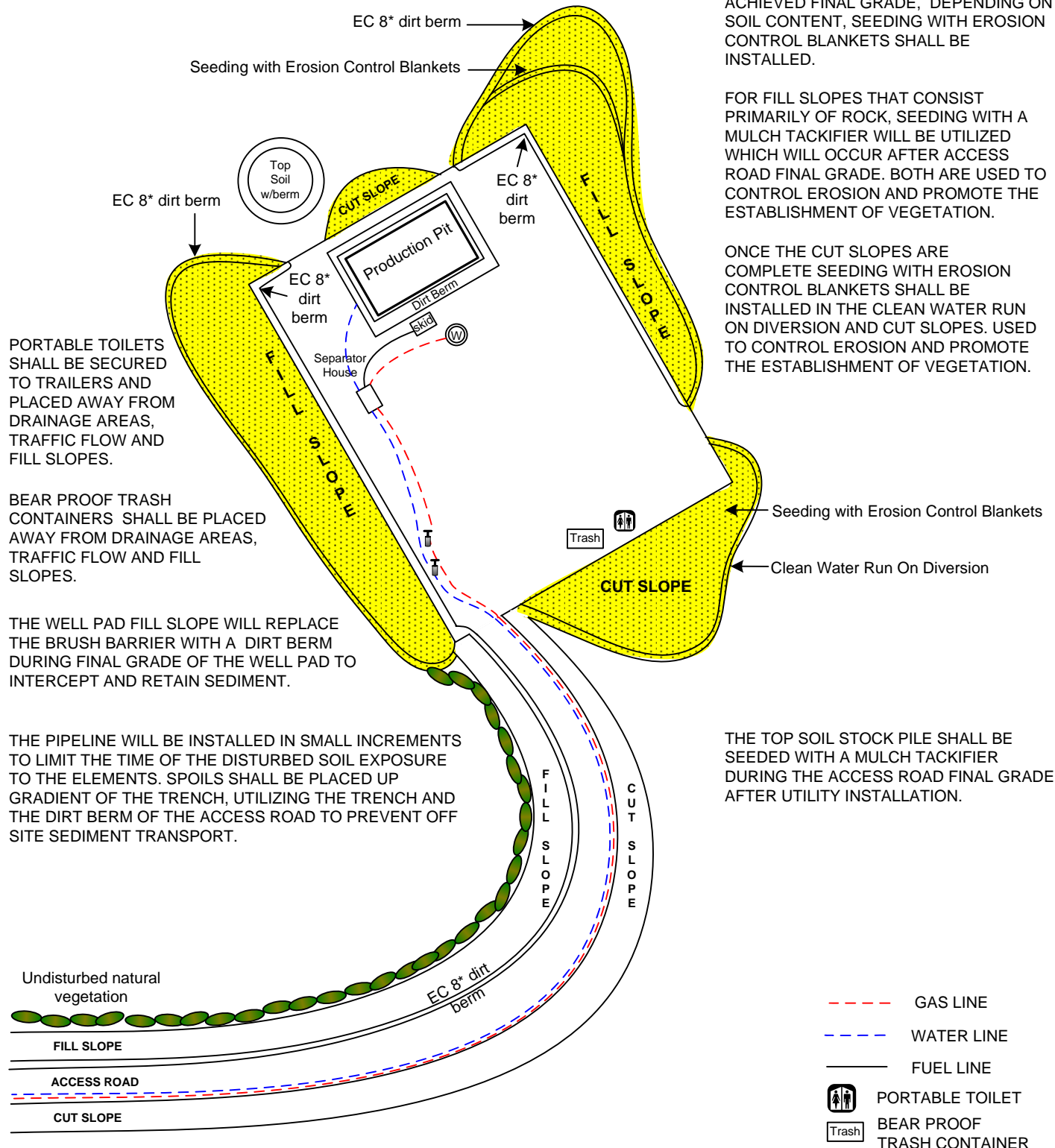
B.M.P. IMPLEMENTATION DURING UTILITY INSTALLATION. BEGIN FINAL GRADE/STABILIZATION



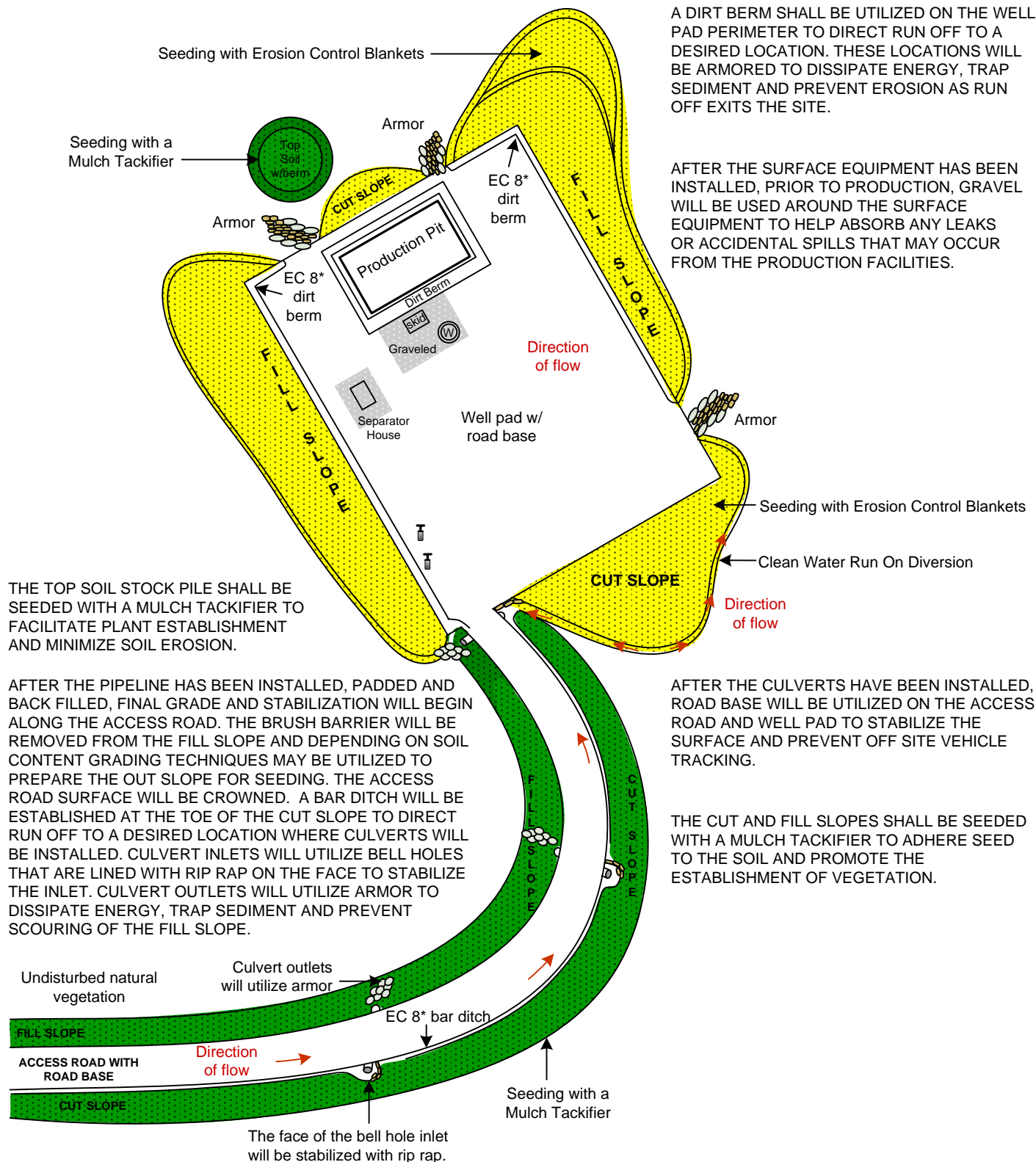
ONCE THE WELL PAD FILL SLOPES HAVE ACHIEVED FINAL GRADE, DEPENDING ON SOIL CONTENT, SEEDING WITH EROSION CONTROL BLANKETS SHALL BE INSTALLED.

FOR FILL SLOPES THAT CONSIST PRIMARILY OF ROCK, SEEDING WITH A MULCH TACKIFIER WILL BE UTILIZED WHICH WILL OCCUR AFTER ACCESS ROAD FINAL GRADE. BOTH ARE USED TO CONTROL EROSION AND PROMOTE THE ESTABLISHMENT OF VEGETATION.

ONCE THE CUT SLOPES ARE COMPLETE SEEDING WITH EROSION CONTROL BLANKETS SHALL BE INSTALLED IN THE CLEAN WATER RUN ON DIVERSION AND CUT SLOPES. USED TO CONTROL EROSION AND PROMOTE THE ESTABLISHMENT OF VEGETATION.



B.M.P. IMPLEMENTATION DURING FINAL STABILIZATION



A DIRT BERM SHALL BE UTILIZED ON THE WELL PAD PERIMETER TO DIRECT RUN OFF TO A DESIRED LOCATION. THESE LOCATIONS WILL BE ARMORED TO DISSIPATE ENERGY, TRAP SEDIMENT AND PREVENT EROSION AS RUN OFF EXITS THE SITE.

AFTER THE SURFACE EQUIPMENT HAS BEEN INSTALLED, PRIOR TO PRODUCTION, GRAVEL WILL BE USED AROUND THE SURFACE EQUIPMENT TO HELP ABSORB ANY LEAKS OR ACCIDENTAL SPILLS THAT MAY OCCUR FROM THE PRODUCTION FACILITIES.

THE TOP SOIL STOCK PILE SHALL BE SEEDED WITH A MULCH TACKIFIER TO FACILITATE PLANT ESTABLISHMENT AND MINIMIZE SOIL EROSION.

AFTER THE PIPELINE HAS BEEN INSTALLED, PADDED AND BACK FILLED, FINAL GRADE AND STABILIZATION WILL BEGIN ALONG THE ACCESS ROAD. THE BRUSH BARRIER WILL BE REMOVED FROM THE FILL SLOPE AND DEPENDING ON SOIL CONTENT GRADING TECHNIQUES MAY BE UTILIZED TO PREPARE THE OUT SLOPE FOR SEEDING. THE ACCESS ROAD SURFACE WILL BE CROWNED. A BAR DITCH WILL BE ESTABLISHED AT THE TOE OF THE CUT SLOPE TO DIRECT RUN OFF TO A DESIRED LOCATION WHERE CULVERTS WILL BE INSTALLED. CULVERT INLETS WILL UTILIZE BELL HOLES THAT ARE LINED WITH RIP RAP ON THE FACE TO STABILIZE THE INLET. CULVERT OUTLETS WILL UTILIZE ARMOR TO DISSIPATE ENERGY, TRAP SEDIMENT AND PREVENT SCOURING OF THE FILL SLOPE.

AFTER THE CULVERTS HAVE BEEN INSTALLED, ROAD BASE WILL BE UTILIZED ON THE ACCESS ROAD AND WELL PAD TO STABILIZE THE SURFACE AND PREVENT OFF SITE VEHICLE TRACKING.

THE CUT AND FILL SLOPES SHALL BE SEEDED WITH A MULCH TACKIFIER TO ADHERE SEED TO THE SOIL AND PROMOTE THE ESTABLISHMENT OF VEGETATION.