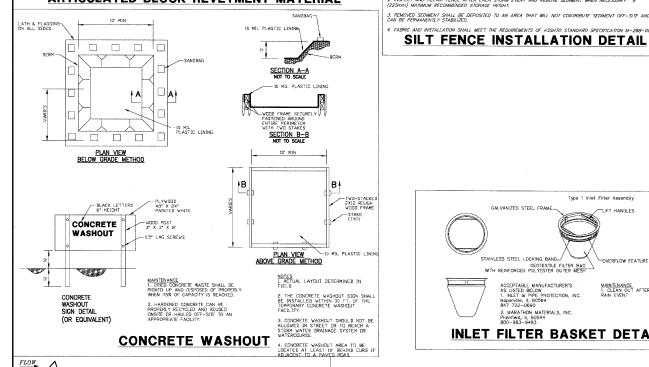
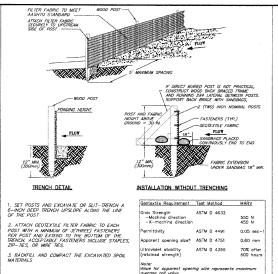


ARTICULATED BLOCK REVETMENT MATERIAL



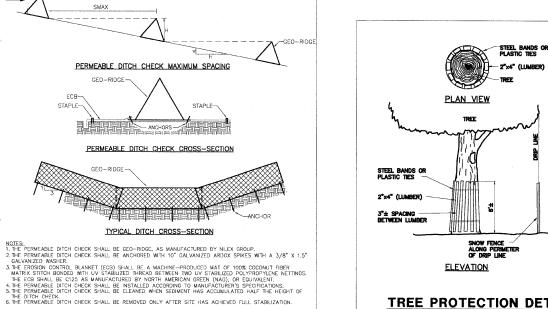
GEO-RIDGE PERMEABLE DITCH CHECK



SILT FENCE INSTALLATION DETAIL

Type 1 Inlet Filter Assembly GALVANIZED STEEL FRAM STAINLESS STEEL LOCKING BAND-GEOTEXTILE FILTER BAG WITH REINFORCED POLYESTER OUTER MESR ACCEPTABLE MANUFACTURER'S AS LISTED BELOW 1. INLET & PIPE PROTECTION, INC. Noperville, IL 60564 847 722-0690 MAINTENANCE 1. CLEAN OUT AFTER EVERY PAIN EVENT

INLET FILTER BASKET DETAIL

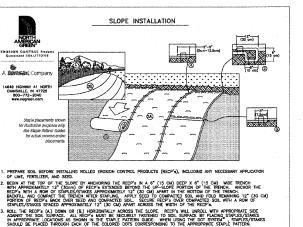


EXISTING VEGETATION WHICH IS TO REMAIN IN PLACE SHALL BE PROTECTED AGAINST UNDECESSARY CUTTING, RECAMING OF SKINNING OF ROOTS, SKINNING AND BRUISING OF BARK, SMOTHERING BY STOCKPILING OF CONSTRUCTION AMTERIALS OR EXCANATE MATERIALS WITHIN THE DRIF UNE, EXCESS FOOT OR VEHICLIAR TRAFFIC OF PARKING OF VEHICLES WITHIN THE DRIF UNDECESSED OF OR VEHICLES.

- ALL TREES TO REMAIN SHALL BE PROTECTED WITH A SNOW FENCE INSTALLED AROUND THE PERMETER OF THE TREES DRIP LINE. ANY CONSTRUCTION INSIDE THORIP LINE OF THE TREE REQUIRES ROOT PRUNING PRI TO THE EXCAVATION.

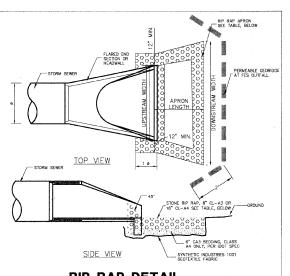
- VEGETATION THAT BECOMES DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED IN A MANNER ACCEPTABLE TO THE VILLAGE.
- DAMAGED TREES SHALL BE REPAIRED BY A QUALIFIED TREE SURGEON. DAMAGED TRES WHICH CANNOT BE REPAIRED AND RESTORED TO FULL GROWN STATUS, AS DETERMINED BY THE TREE SURGEON, SHALL BE REPLACED.

TREE PROTECTION DETAIL



S. CONSECUTINE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE. 3' (7,5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12' (30 CM) APART ACROSS ENTIRE RECP'Y WITH. NOTE:
"IN LOSSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 8" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECO".

EROSION CONTROL BLANKET SLOPE INSTALLATION



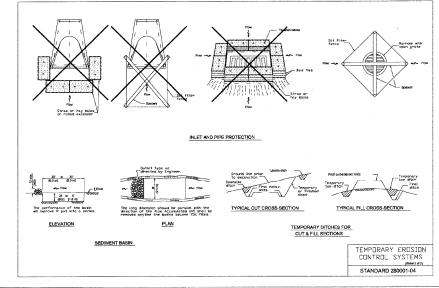
RIP RAP DETAIL

RIP RAP TABLE - FROM STORMWATER MANAGEMENT REPORT

	PROJECT	PIPE	ROCK	 APRON SIZE 		
FES	LOCATION	DIA.	GRADE	LENGTH	UP	DOWN
74H	CEM: 208+82	18	No.4	16	4.5	17.5
9G	CEM: 217+80	24	ABRM	16	6.0	18.0
20A	CEM: 239+60	48	No.4	24	12.0	13.6
62A	WAS: 107+55	36	No.4	22	9.0	11.8
61A	WAS: OUTLOT	36	ABRM	20	9.0	23.0
51F	WAS: 137+18	48	No.4	24	12.0	13.6

ROCK GRADE REFERENCES IDOT SSRB ARTICLE 281.04a NOTE: CA3 BEDDING FOR RIP RAP CL A4 SHALL BE INCIDENTAL TO THE 'STONE RIP RAP, CLASS A4' PAY ITEM.

SECTION TOTAL SHEET. COUNTY 541 00-00047-00-FP LAKE 180 99 EROSION CONTROL DETAILS CONTRACT NO. 83845 | ILLINIOIS



SOIL EROSION CONTROL NOTES

- PRIOR TO STARTING ANY WORK ON THIS PROJECT, THE CONTRACTOR SHALL PERFORM PERTINENT ACTIVITIES AS OUTLINED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SOIL EROSION DEVICES AS OUTLINED IN THE SOIL EROSION NOTES ON THIS SHEET AND THE LAKE COUNTY STORMMATER MANAGEMENT COMMISSION SEDIMENT AND EROSION CONTROL NOTES ON THIS SHEET. SOME MAJOR ITEMS ARE INCLUDED BELOW.
- NO DIRT STOCKPILES, EQUIPMENT, SUPPLIES, OR TRAILERS ARE PERMITTED TO BE LOCATED OR STORED WITHIN THE FLOODPLAIN. ALL MATERIAL SHALL BE MOVED DUTSIDE THE FLOODPLAIN LIMITS AT THE CLOSE OF EACH DAY.
- INSTALL SILT FENCE ALONG PERIMETER OF CONSTRUCTION ZONE AS SHOWN. ALL SILT FENCE TO BE INSTALLED OUTSIDE OF DELINEATED NATURAL RESOURCE. ALL EARTH STOCKPILES SHALL BE SURROUNDED BY PERIMETER EROSION BARRIER.
- TEMPORARY SEEDING, MULCHING, AND INSTALLATION OF EROSION CONTROL BLANKETS WILL BE REQUIRED ON ALL DISTURBED EARTH DRAINAGE AREAS. THE CONTRACTOR SHALL HAVE SUFFICIE QUANTITIES OF EROSION CONTROL BLANKET (NAG S-75 OR APPROVED EQUAL) ON SITE AT ALL TIMES TO IMMEDIATELY COVER DISTURBED AREAS.
- ALL PROPOSED STRUCTURES RECEIVING OR DISCHARING STORM WATER SHALL BE PROTECTED WITH INLET FILLER BASKETS LUDGET THE OPEN LID. OPEN LID STRUCTURES WITHIN PAVED ZONES SHALL BE PROTECTED WITH FILTER FABRIC BASKETS.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ALL EROSION CONTROL DEVICES. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED, REPAIRED, AND REPLACED THROUGHOUT THE LIFE OF THE PROJECT. AFTER ACHIEVING PERMANENT VECETATION, ALL EROSION CONTROL DEVICES SHALL BE REMOVED AND ALL DRAINAGE STRUCTURES CLEANED.

LCSMC SEDIMENTATION AND EROSION CONTROL NOTES

- THE STORMWATER POLLUTION PREVENTION PLAN (SWP3) IS COMPRISED OF THIS DRAWING ("SITE MAP"), THE STANDARD DETAILS, THE PLAN NARRATIVE, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE ILLINO'S PERMIT (ILRID) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF FRACTICE. AS APPLICABLE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- D. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- E. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READLY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- G. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE SWP3, SHALL BE INITIATED AS SOON AS PRACTICABLE.
- H. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED BY THE END OF THE DAY.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- J. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
- K. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- L. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, REDISTURBANCE.
- M. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

PLANS PREPARED BY REVISIONS GEWALT HAMILTON REV.-1 IDOT COMMENTS 02-03-06 REV.-2 PLANS STAGED 06-02-06 Consulting Engineers & Surveyor 850 Forest Edge Drive Vernon Hills, IL 60061 (847) 478-9700 (847) 478-9701 Fax REV.-4 LCSMC COMMENT 04-30-07 REV.-5 PRE-FINAL SUB 02-20-09

ILLINOIS DEPARTMENT OF TRANSPORTATION EROSION AND SEDIMENT CONTROL PLAN

PROPOSED ROADWAY WIDENING AND INTERSECTION IMPROVEMENTS EROSION CONTROL DETAILS

DATE: 09-10-05

DRAWN BY: CGP DESIGNED BY: TAR CHECKED BY: BLS