

GENERAL EROSION AND SEDIMENTATION CONTROL NOTES

EROSION AND SEDIMENTATION CONTROL CONSIDERATIONS RELATED SPECIFICALLY TO CHANNEL FLOW, TURBIDITY, EXCAVATION, AND DEWATERING ARE LISTED WITHIN SEPARATE PLAN NOTES UNDER THEIR RESPECTIVE SECTIONS ON THIS SHEET.

- APPROPRIATE PRECAUTIONS SHALL BE TAKEN TO PREVENT THE TRACKING OF SOIL FROM CONSTRUCTION EQUIPMENT ONTO PAVED SURFACES LOCATED BEYOND WORK LIMITS OR CONSTRUCTED AS PART OF THE PROJECT.
- ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- NO WORK IS TO OCCUR ON THE WETLAND SIDE OF THE PERIMETER CONTROLS UNLESS SPECIFIED IN THIS PLAN SET. ALL PERIMETER CONTROLS OTHERWISE SERVE AS THE LIMIT OF SURFACE DISTURBANCE AND WORK IN GENERAL. ACCORDINGLY, NO STONES, BRUSH, CONSTRUCTION DEBRIS, LITTER, OR OTHER MATERIALS ARE TO BE DEPOSITED ON THE WETLAND SIDE OF THE PERIMETER EROSION AND SEDIMENTATION CONTROLS AND/OR LIMITS OF DISTURBANCE.
- THE ENGINEER/BIOLOGIST RESERVE THE RIGHT TO SPECIFY ADDITIONAL EROSION CONTROLS AS CONDITIONS MAY WARRANT. ACCESSIBLE RESERVES OF HAY BALES AND STAKES ARE TO BE MAINTAINED ON SITE FOR ROUTINE MAINTENANCE AND IN THE EVENT OF UNANTICIPATED PROBLEMS REQUIRING EMERGENCY RESPONSE.
- HAY BALES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS PROVIDED ON THE PLANS. ALL HAY BALES ARE TO BE DOUBLE STAKED AND INSTALLED WITH THE LOWER 4 INCHES BURIED AND BACKFILLED WITH COMPACTED SOIL MATERIAL.
- THE TOE OF FILL SLOPES IS TO REMAIN AT LEAST ONE FOOT INSIDE OF EROSION CONTROLS. UNDER NO CIRCUMSTANCE SHALL THE CONTROLS BE COVERED WITH FILL MATERIAL. ANY FILL MATERIAL THAT IS PLACED AGAINST THE CONTROLS SHALL BE IMMEDIATELY REMOVED.
- ALL MATERIALS STOCKPILES TO REMAIN IDLE FOR MORE THAN 20 CONSECUTIVE DAYS ARE TO BE RINGED WITH EITHER TRENCHED AND STAKED SILT FENCE OR STAKED HAY BALES.
- NO EQUIPMENT ASSOCIATED WITH EXCAVATION, BRIDGE CONSTRUCTION, OR PAVING SHALL BE STORED WITHIN THE 100-FOOT BUFFER ZONE OR 200-FOOT RIVERFRONT AREA.
- ALL DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ARE TO BE LOAMED AND SEDED (WITH A SEED MIX APPROVED BY THE COURSE SUPERINTENDENT) IMMEDIATELY FOLLOWING FINAL GRADING. PLANTABLE LOAM SHALL BE APPLIED AT A MINIMUM DEPTH OF SIX INCHES.
- IMMEDIATELY FOLLOWING SEEDING, STRAW MULCH SHALL BE LIGHTLY SPREAD ON ALL SLOPES.
- ALL EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION, AND THE STRICTEST PRECAUTION MUST BE TAKEN TO PREVENT AND MINIMIZE THE TRANSPORT OF SEDIMENTS TO THE RIVER AND ITS CONTIGUOUS WETLANDS.
- EROSION AND SEDIMENTATION CONTROLS ARE TO REMAIN IN PLACE UNTIL ALL SOILS HAVE STABILIZED AND SHALL BE REMOVED ONLY UPON AUTHORIZATION FROM THE ENGINEER/BIOLOGIST AND/OR THE CONSERVATION AGENT.

FLOW-CONTROL SEQUENCE AND NOTES

- ALL IN-CHANNEL WORK IS TO BE COMPLETED BY OCTOBER 30 AND SHALL OCCUR DURING A TIME PERIOD IN WHICH HEAVY RAINS ARE NOT FORECASTED.
- EXCAVATION IN THE LOOSE ROCK SHALL OCCUR IN AN AREA AND TO A DEPTH SUFFICIENT TO INSTALL A TEMPORARY 36-INCH HDPE PIPE 20 FEET IN LENGTH TO CARRY THE RIVER FLOWS DURING CONSTRUCTION. THE PIPE SHALL BE SET AT THE APPROXIMATE INVERT ELEVATIONS DESIGNATED TO MIMIC EXISTING FLOW ELEVATIONS (NOTE THAT THE EXISTING CONCRETE CULVERT HAS FAILED AND CANNOT BE USED FOR THIS PURPOSE).
- SANDBAGS SHALL BE INSTALLED AT THE UPGRADIENT END OF THE TEMPORARY PIPE AS SHOWN ON THE PLAN. THEY SHALL TIE INTO THE RIVERBANKS AND SHALL TIGHTLY ABUT THE MOUTH OF THE PIPE, SERVING TO FUNNEL ALL RIVER FLOWS INTO THE PIPE.
- TURBIDITY CURTAIN AND SANDBAGS SHALL BE INSTALLED AS SHOWN ON THE PLANS AT THE DOWNGRADIENT END OF THE TEMPORARY PIPE. THE SANDBAGS WILL SERVE TO PROVIDE A CONNECTION BETWEEN THE TURBIDITY CURTAIN AND PIPE TO EFFECTIVELY ISOLATE THE WORK AREA WHILE ALLOWING FLOWS IN THE PIPE TO REMAIN UNIMPEDED. ALTERNATIVELY IN LIEU OF SANDBAGS, A SLIT MAY BE MADE IN THE SKIRT OF THE TURBIDITY CURTAIN AND THE SKIRT TIGHTLY CLAMPED AROUND THE PIPE END (TO BE APPROVED BY THE ENGINEER/BIOLOGIST). THE TURBIDITY CURTAIN SHALL BE INSTALLED FIVE FEET OFF FILL LIMITS AND SHALL BE SECURELY ANCHORED AT EITHER END TO ACHIEVE FULL CONTAINMENT.
- THE TURBIDITY CURTAIN MUST HAVE A FLOATING BOOM, SKIRT, AND CHAIN BALLAST TO CONFORM WITH THE BOTTOM. IT MAY BE SILTDAM TURBIDITY BARRIER FROM BROCKTON EQUIPMENT/SPILLDAM, INC., PO BOX 3219; BROCKTON, MA, 02404, (508) 583-7850, OR EQUIVALENT.
- THE CONTRACTOR IS TO REVIEW TURBIDITY CURTAIN INSTALLATION METHODOLOGY WITH ENGINEER AND/OR BIOLOGIST PRIOR TO COMMENCEMENT AND IS TO SUBMIT SPECIFICATIONS FOR TURBIDITY CURTAIN TO ENGINEER FOR APPROVAL PRIOR TO PURCHASE.
- THE TURBIDITY CURTAIN SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF WORK. ANY ACCUMULATED SEDIMENTS SHALL BE REMOVED PRIOR TO REMOVING THE CURTAIN, AND THE CURTAIN MUST REMAIN IN PLACE AT LEAST 72 HOURS AFTER THE COMPLETION OF INWATER WORK TO ALLOW SUFFICIENT SETTLING TIME.
- THE SANDBAGS, TEMPORARY PIPE, AND TURBIDITY CURTAIN SHALL NOT BE REMOVED UNTIL AUTHORIZED BY THE BIOLOGIST AND/OR THE CONSERVATION AGENT.

DEWATERING NOTES

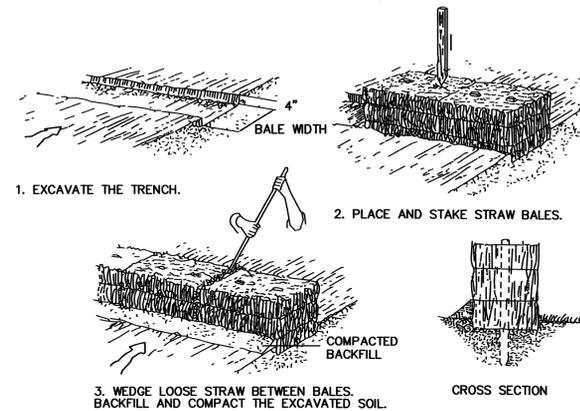
- EARTHEN MATERIAL EXCAVATED BELOW THE WATERLINE OR DETERMINED TO BE SATURATED MUST BE PLACED IN THE DESIGNATED GRASSED DEWATERING AREA AND MUST REMAIN IN PLACE FOR A MINIMUM 72 HOURS PRIOR TO REMOVAL AND HAULING.
- THE PERIMETER OF THE DESIGNATED DEWATERING AREA MUST BE RINGED BY A DOUBLE ROW OF ALTERNATING-JOINT HAYBALES AS INDICATED ON THE DETAIL.
- DEWATERED MATERIAL IS TO BE HAULED TO A LEGAL, NON-WETLAND DISPOSAL SITE OR RESPONSIBLY REUSED AS PART OF THE ACTIVITIES PROPOSED UNDER THIS APPLICATION. DEWATERED MATERIAL SHALL NOT BE REUSED AS ROADBED FILL.

CHANNEL AND WETLAND CREATION NOTES

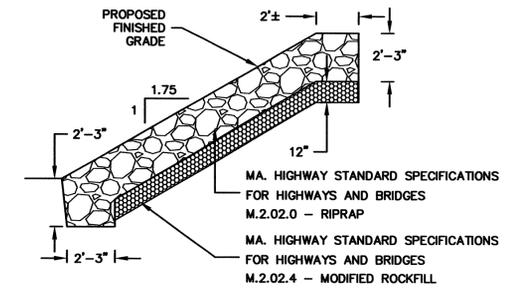
- THE RIVER CHANNEL UNDER THE PROPOSED BRIDGE SHALL BE RESHAPED IN ACCORDANCE WITH THE PLANS, HAVING A TOP OF BANK ELEVATION AT APPROXIMATELY 76.1.
- THE CREATED WETLAND FLOOR SHALL BE OVER-EXCAVATED TO ACCOMMODATE 6 INCHES OF EVENLY-SPREAD ORGANIC-MIX SOIL, AND THE EXCAVATED FLOOR SHALL BE GRADED TO GRADUALLY BLEND WITH THE UNDISTURBED WETLAND FLOOR.
- THE ORGANIC MIX SOIL SHALL COMPRISE LOAM BLENDED WITH PEAT MOSS AND/OR HUMUS AT A RATIO OF THREE PARTS MINERAL SOIL TO ONE PART PEAT/HUMUS.
- FOLLOWING FINAL SHAPING OF THE CREATED WETLAND AREA, THE ORGANIC-MIX SOIL SHALL BE SPREAD ON THE CREATED WETLAND FLOOR TO A DEPTH OF SIX INCHES. CARE SHALL BE TAKEN TO AVOID MECHANICAL COMPACTION OF THE ORGANIC-MIX SOIL ONCE IT IS LAYED AND SPREAD ON THE WETLAND FLOOR.
- THE WETLAND FLOOR AND LOWEST ONE-FOOT OF THE SIDE SLOPES SHALL BE SEEDED WITH A HYDRIC GRASS/HERB SEED MIX TO BE APPROVED BY THE ENGINEER/BIOLOGIST.

GENERAL CONSTRUCTION SEQUENCE

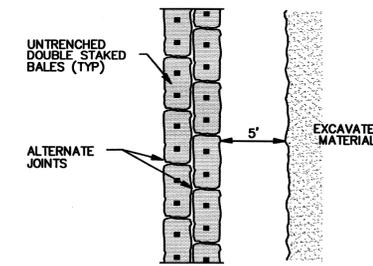
- THE PROJECT COMMENCEMENT DATE WILL BE ESTABLISHED BY THE PROJECT TEAM. THE CONTRACTOR IS RESPONSIBLE FOR ADHERENCE TO ALL RELEVANT ITEMS LISTED IN THE STATE AND LOCAL WETLANDS PERMITS (ORDERS OF CONDITIONS).
- CONSTRUCTION ACCESS THROUGH THE COURSE AS REQUIRED TO REACH THE CONSTRUCTION SITE SHALL BE AS DESIGNATED BY THE COURSE SUPERINTENDENT. ACCESS ROUTES THROUGH UPLANDS HAVE BEEN ESTABLISHED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE COURSE SUPERINTENDENT PRIOR TO MOBILIZATION AND COMMENCEMENT.
- THE EXISTING TEMPORARY TIMBER CARTPATH DECK WILL BE REMOVED BY THE COURSE SUPERINTENDENT PRIOR TO PROJECT COMMENCEMENT.
- THE GENERAL SEQUENCE OUTLINED BELOW SHALL BE FOLLOWED UPON COMPLETION OF ITEMS 1-3 ABOVE.
- CLEAR THREE TREES SPECIFIED PRIOR TO THE INSTALLATION OF PERIMETER CONTROLS AND PRIOR TO EARTHWORK. TREES SHALL BE FELLED IN A DIRECTION AWAY FROM THE CHANNEL.
- INSTALL PERIMETER CONTROLS IN THE LOCATIONS DESIGNATED ON THE PLANS.
- ISOLATE AND CONTROL RIVER FLOWS AS SPECIFIED UNDER "FLOW-CONTROL SEQUENCE AND NOTES". REMOVE AND DISPOSE OF EXISTING 36-INCH CONCRETE PIPE SECTIONS.
- EXCAVATE EASTERN END OF WORK AREA AND INSTALL EASTERN PILES, ABUTMENT WALL, AND WINGWALLS.
- RESHAPE FLOOR AND INSTALL RIP RAP AT BASE OF EASTERN ABUTMENT AND WINGWALLS.
- CONTINUE EXCAVATION AND SHAPE AND COMPLETE CHANNEL BED AND WETLAND FLOOR TO THE ELEVATIONS AND CONFIGURATIONS SPECIFIED.
- INSTALL WESTERN PILES, ABUTMENT WALL, AND WINGWALLS.
- RESHAPE FLOOR AND INSTALL RIP RAP AT BASE OF WESTERN ABUTMENT AND WINGWALLS.
- BACKFILL WESTERN ABUTMENT AND WINGWALLS.
- INSTALL BRIDGE DECK.
- BACKFILL EASTERN ABUTMENT AND WINGWALLS FROM DECK SURFACE.
- RESET GRANITE BLOCK TO FORM RETAINING WALLS, AND FILL, SHAPE, AND COMPLETE CARTPATH TRANSITIONS.
- RESHAPE ALL SLOPES.
- PAVE BOTH CARTPATH TRANSITIONS TO THE DIMENSIONS SPECIFIED.
- LOAM AND SEED ALL EXPOSED SLOPES
- REMOVE EROSION CONTROLS ONLY UPON AUTHORIZATION FROM ENGINEER, BIOLOGIST, AND/OR CONSERVATION AGENT.



HAY BALE DETAIL



RIPRAP CHANNEL PROTECTION
TYPICAL SECTION
SCALE 1"=4'



BALED HAY
DEWATERING BASIN DETAIL
(NOT TO SCALE)

LEDGEMONT COUNTRY CLUB SEEKONK, MA SITE DETAILS	
CAPUTO AND WICK LTD. 1150 PAWTUCKET AVE. RUMFORD, R.I. 02916 401-434-8880	DATE JUNE 5, 2008 SHEET 4 OF 4