SEGMENT TRAP NOTES

1. USE ONLY IF THE CONTRIBUTING DRAINAGE AREA TO THE TRAP IS 5 ACRES OR LESS. IF THE CONTRIBUTING DRAINAGE AREA IS GREATER THAN 5 ACRES, THEN A SEGMENT BASIN SHOULD BE CONSIDERED.
2. USE ONLY FOR TREATMENT OF ON-SITE RUNOFF.
3. NEVER CONSTRUCT A SEGMENT TRAP ON A FLOWING STREAM OR IN WETLANDS.
4. TRAPS SHOULD NOT BE LOCATED CLOSEER THAN 20 FEET FROM A PROPOSED BUILDING FOUNDATION OR EDGE OF ROAD.
5. USE ONLY FOR SEDIMENT CONTROL WHERE THE DRAINAGE AREA IS GREATER THAN 5 ACRES.
6. MAXIMUM EMBANKMENT HEIGHT SHALL BE 5 FEET MEASURED ON THE DOWNTREAM SIDE. THE MAXIMUM WIND EMBANKMENT WIDTH SHALL BE 4 FEET. SIDE SLOPES FOR THE EMBANKMENT AND THE EXCAVATED AREAS SHALL BE 2:1 OR FLATTER.
7. EMBANKMENT AND THE EXCAVATED AREAS SHALL BE FREE OF ROOTS OR OTHER VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIBLE MATERIAL.
8. INLETS TO SEGMENT TRAP SHALL ENTER AT THE FURTHEST DISTANCE TO OUTLET DESIGNED SO AS TO NOT ENCOSE SIDE SLOPES OF SEGMENT BASIN.

INSTALLATION NOTES

1. SEGMENT TRAPS ALONG WITH OTHER PERIMETER CONTROLS SHALL BE INSTALLED BEFORE ANY LAND DISTURBANCE TAKES PLACE IN THE DRAINAGE AREA.
2. THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED AND STIRRUPPED OF ANY VEGETATION AND ROOTS.
3. ALL SEDIMENT TRAPS SHOULD BE PLACED AT THE STORM-SIZE INTERFACE TO ACT AS A SEPARATOR.

MAINTENANCE NOTES

1. SEGMENT TRAPS SHOULD BE REMOVED FROM THE TRAP WHEN THE NET STORAGE VOLUME IS REDUCED BY 50%. SEGMENT TRAPPED MUST BE PROPERLY DISPOSED OF.
2. THE CONTRACTOR SHALL INSPECT SEGMENT TRAP EVERY TWO WEEKS AND AFTER ANY SIGNIFICANT STORM EVENT. ROCKS CLOSED WITH SEDIMENT SHALL BE CLEARED OR REPLACED.
3. SEGMENT TRAPS ARE TO REMAIN IN PLACE UNTIL THE EMBANKMENT DISTURBED AREAS ARE STABILIZED AND ACCEPTED BY THE CITY.
4. IF SEGMENT TRAPS ARE REMOVED, THE DISTURBED AREA SHALL BE SEEDED, CRAMPED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE CITY.

SEGMENT BASIN NOTES

1. USE FOR CONTROLLING DRAINAGE AREAS GREATER THAN 5 ACRES.
2. DO NOT USE ON SITES WHERE FAILURE OF THE STRUCTURE OR EMBANKMENT WOULD RESULT IN LOSS OF LIFE, DAMAGE TO HOMES OR BUILDINGS, OR INTERFERENCE OF USE OF SERVICE OF PUBLIC ROADS OR UTILITIES.
3. SEGMENT BASINS SHOULD BE USED IN CONJUNCTION WITH EROSION CONTROL PRACTICES SUCH AS TEMPORARY SEEDING, MULCHING, EROSION SHEETS, ETC. TO REDUCE THE AMOUNT OF SEDIMENT FLOWING INTO THE BASIN.
4. THE UPRIGHT EMBANKMENT HEIGHT SHALL BE EQUAL TO THE MAXIMUM HEIGHT OF THE FLOWING STREAM.
5. USE FOR TREATMENT OF ON-SITE RUNOFF ONLY.
6. THE BASIN SHALL BE LONG AND NARROW WITH A LENGTH TO WIDTH RATIO OF 2:1 OR GREATER. APPROPRIATE BASIN SHAPE MAY BE ATTAINED BY PROPERLY SELECTING THE SITE OF THE BASIN, BY EXCAVATION, OR BY THE USE OF BARRIERS.
7. MAXIMUM EMBANKMENT HEIGHT SHALL BE 9 FEET. MEASURES SHOULD BE INCORPORATED IN THE EMBANKMENT TO PROTECT AGAINST FAILURE DUE TO SEEPAGE. A GEO-TECHNICAL ENGINEER SHOULD BE CONSULTED FOR SPECIFIC DESIGN CONSIDERATIONS.
8. THE EMBANKMENT SHAL CONSIST OF A PRINCIPAL OUTLET (PERFORATED VERTICAL PIPE) AND AN EMERGENCY OUTLET (PERFORATED HORIZONTAL PIPE)
9. REFER TO COOTS EROSION CONTROL AND STORM WATER QUALITY GUIDE BMP SCI (SEDIMENT BASIN) FOR DESIGN OF THE OUTLET AND SPILLWAY.
10. INLETS TO SEGMENT BASIN SHALL ENTER AT THE FURTHEST DISTANCE TO OUTLET DESIGNED SO AS TO NOT ENCOSE SIDE SLOPES OF SEGMENT BASIN.

INSTALLATION NOTES

1. AREAS UNDER THE EMBANKMENT AND ANY STRUCTURAL WORKS SHALL BE CLEANED, GRIPPED, AND STRIPPED OF ANY MATERIAL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIBLE MATERIAL.
2. TO FACILATE CLEANUP AND RESTORATION, THE POOL AREA (MEASURED AT THE TOP OF THE PRINCIPAL OUTLET) SHALL BE LEFT IN PLACE UNTIL ALL BRUSH AND TREES ARE REMOVED.
3. DESIGN ELEVATIONS, MOTIVATIONS, AND ENCLOSURE COLUMNS ARE CRITICAL TO THE SUCCESSFUL OPERATIONAL PERFORMANCE OF THE SPILLWAY AND MUST BE CONSTRUCTED WITHIN A TOLERANCE OF ± 1/2 INCHES.
4. FOR EMERGENCY EMBANKMENTS, A CUTTER TRENCH SHALL BE CUTTED UP TO BOTH ABUTMENTS TO THE TOP OF THE PERFORATED VERTICAL PIPE.
5. THE RIVER AND BARREL OF THE PRINCIPAL OUTLET SHALL BE PLACED ON A FLATLY COMPACTED SOIL FOUNDATION. THE PERIMETER OF THE RIVER SHALL BE FIRMLY ANCHORED ACCORDING TO DESIGN CRITERIA TO PREVENT FLOTTATION.
6. PERMISSIVE MATERIAL SUCH AS SAND, GRAVEL, AND CRUSHED STONE SHALL NOT BE USED AS BACKFILL AROUND THE EMBANKMENT.

MAINTENANCE NOTES

1. SEGMENT BASIN SHALL BE REMOVED FROM THE BASIN WHEN THE NET STORAGE VOLUME HAS BEEN REDUCED BY 50%. THE EMBANKMENT MUST BE PROPERLY DISPOSED OF.
2. THE CONTRACTOR SHALL INSPECT SEGMENT BASIN EVERY TWO WEEKS AND AFTER ANY SIGNIFICANT STORM EVENT. ROCKS CLOSED WITH SEDIMENT SHALL BE CLEARED OR REPLACED.
3. SEGMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE EMBANKMENT DISTURBED AREAS ARE STABILIZED AND ACCEPTED BY THE CITY.
4. IF SEGMENT BASINS ARE REMOVED, THE DISTURBED AREA SHALL BE SEEDED, CRAMPED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE CITY.