## Illinois Tollway Standard Drawing Revisions

### Section K  Temporary Erosion & Sediment Control

<table>
<thead>
<tr>
<th>Standard</th>
<th>Modification Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Removed &quot;Geotextile&quot; from &quot;Geotextile Filter Fabric&quot; for consistency with pay item and standard specification descriptions</td>
</tr>
<tr>
<td>Sheet 1</td>
<td>Added &quot;Perimeter Silt Fence&quot; to Note 6</td>
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<tr>
<td></td>
<td>Revised Note 8 for consistency with the requirements for temporary stabilization specified in the current ILR10 permit</td>
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<tr>
<td></td>
<td>Replaced &quot;will&quot; with &quot;shall&quot; for consistent use of terminology</td>
</tr>
<tr>
<td>Sheet 4</td>
<td>Stabilized Construction Entrance Detail</td>
</tr>
<tr>
<td></td>
<td>Added an optional Temporary Culvert to the entrance detail</td>
</tr>
<tr>
<td></td>
<td>Replaced &quot;Geoweb&quot; with &quot;Geocell&quot;</td>
</tr>
<tr>
<td>Sheet 5</td>
<td>Silt Fence Detail</td>
</tr>
<tr>
<td></td>
<td>Removed &quot;Filter&quot; from &quot;Silt Filter Fence Fabric&quot; for consistency with pay item and standard specification</td>
</tr>
<tr>
<td></td>
<td>Changed 200' to 200' Maximum for J Hook placement</td>
</tr>
<tr>
<td>Sheet 6</td>
<td>Super Silt Fence Detail</td>
</tr>
<tr>
<td></td>
<td>Removed &quot;Filter&quot; from &quot;Silt Filter Fence Fabric&quot; for consistency with pay item and standard specification</td>
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<tr>
<td></td>
<td>Changed &quot;Filter Fabric&quot; to &quot;Silt Fence Fabric&quot; in Section B-B</td>
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<tr>
<td></td>
<td>Creek Buffer Strip and Silt Fence Detail</td>
</tr>
<tr>
<td></td>
<td>Changed Note 1 to reflect the minimum buffer requirement of 50' for consistency with the current ILR10 permit</td>
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<td></td>
<td>Removed &quot;Below&quot; from the plan detail</td>
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<tr>
<td></td>
<td>Removed &quot;Filter&quot; from &quot;Silt Filter Fence Fabric&quot; for consistency with pay item and standard specification</td>
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<tr>
<td></td>
<td>Revised ditch check height to 9&quot; minimum and 3&quot; toe in</td>
</tr>
<tr>
<td></td>
<td>Corrected Note 2 to reflect 12&quot; diameter temporary ditch check</td>
</tr>
<tr>
<td>Sheet 8</td>
<td>Rectangular Inlet Protection Detail</td>
</tr>
<tr>
<td></td>
<td>Replaced the option to use Super Silt Fence with the option to substitute the wood frame using 2 1/2&quot; Galvanized or Aluminum Posts installed as specified for Super Silt Fence</td>
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<tr>
<td></td>
<td>Added &quot;Woven&quot; to &quot;Monofilament Fabric&quot;</td>
</tr>
<tr>
<td>Sheet 9</td>
<td>Fabric Inlet Protection Details</td>
</tr>
<tr>
<td></td>
<td>Changed the titles for consistency with the pay items</td>
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<td></td>
<td>Modified and provides notes specific to each type of fabric inlet protection</td>
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<tr>
<td></td>
<td>Replaced the detail for the basket type inlet protection for consistency with the standard specifications</td>
</tr>
<tr>
<td></td>
<td>Revised the detail for the cover type inlet protection to more clearly depict proper installation of the device</td>
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</tbody>
</table>

New Sheet  Retired Standard
GENERAL NOTES - EROSION AND SEDIMENT CONTROLS

1. THE WORK DESCRIBED ON THESE DRAWINGS IS AN INTEGRAL PART OF THE
STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN AN NPDES
PERMIT FROM THE EPA FOR THIS PROJECT.

2. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES
INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT OF ANY
STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS
THAT FLOW IN OVER THE DISTURBED AREAS.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT
TRANSPORT FROM THE SITE IS REDUCED BY A COMBINATION OF MUNIFICENT
EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO
CONTROL IT ON OFF-SITE. THE CONTRACTOR IS DEEMED RESPONSIBLE FOR THE
INSTALLATION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL PLAN.

4. TO THE MAXIMUM EXTENT POSSIBLE EROSION SHOULD BE MINIMIZED AT THE
SOURCE. ALL FLOWS ORIGINATING FROM THE CONSTRUCTION SITE SHALL BE
DIVERGED OR DIRECTED TO DISTURBED AREAS OR SHALL BE CONVEYED THROUGH
THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF, SHALL BE MINIMIZED
AND DOES NOT MIX WITH THE OFF-SITE RUNOFF.

11. SEDIMENT TRAPS, SEDIMENT BASINS, DITCHES, SILT FENCES,
FENCES, STONE OUTLET STRUCTURES, EARTH TOPS, ETC., SHALL BE
MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE
WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED
TO THE PUBLIC. ALL RUNOFF, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE
PREPARED TO POSTPONE COMPLETION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. AN EMPLOYEE OF THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AT A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER ANY RAINFALL (MINIMUM OF 0.5" OR EQUAL TO MEAN 24 HOURS), NO ROUNDING.

12. SEDIMENT TRAPS SHALL NOT BE STOCKPILED IN THE VICINITY OF
ROADSIDE STRUCTURES OR WASHOUTS. ALL SEDIMENT BASINS, SEDIMENT TRAPS,
SEDIMENT BASINS, DITCHES, SILT FENCES, FENCES, STONE OUTLET STRUCTURES,
EARTH TOPS, ETC., SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL
AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED.

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AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED.

16. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSIDERED
TEMPORARY. THESE MEASURES SHALL BE REMOVED BY THE CONTRACTOR AS REQUIRED.
DISTURBED AREAS SHALL BE RESTORED UPON REMOVAL.

17. WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION
OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS, THIS PERSON
SHALL POSSESS THE NECESSARY TRAINING AND CERTIFICATION ON EROSION AND SEDIMENT CONTROL MEASURES FOR ACCEPTANCE BY THE ILLINOIS TOLLWAY. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AT A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER ANY RAINFALL (MINIMUM OF 0.5" OR EQUAL TO MEAN 24 HOURS), NO ROUNDING.

18. THE CONTRACTOR SHALL PREPARE A SKEW SHOWING DIMENSIONS FROM
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NOTES:

1. All cut slopes shall be excavated and stabilized prior to installing a vegetative plan. Topsoil shall be placed and seed prepared prior to using temporary stabilization with straw mulch or erosion blanket as the work progresses.

2. Construction sequence:
   a) Excavate and stabilize existing, side and outlet ditches, provide sediment traps for ditches.
   b) Perform phase 1 excavation and stabilize slopes with permanent seeding.
   c) Perform phase 2 excavation and stabilize slopes with temporary seeding, over seed phase 1 slopes, if required.
   d) Perform final phase excavation, dress and seed and mulch slopes with permanent seeding, stabilize surface drain ditches, over seed phase 1 & 2 slopes, if required, as determined by the engineer.

3. If permanent seeding cannot be placed due to contract requirements regarding planting seasons, the cut slope is to have topsoil placed and seed prepared prior to using temporary stabilization with straw mulch or temporary seeding with erosion blanket.

4. The contractor has the option of delaying topsoil seeding beyond the 15 foot limitation. If this option is chosen, the cut slope must be "temporary stabilized" at no cost to the Illinois Tollway.

5. Once the excavation within a specific area has begun, the operation shall be continuous from stripping through the completion of the grading and placement of slope stabilization measures. Any interruptions in the operation of 14 days or more must be approved by the engineer. Any violation of this requirement will result in the contractor assuming the responsibility of placing temporary stabilization at his own cost and expense.
NOTES:
1. STONE
   A. STONE SIZE - CA-3
   B. LENGTH - AS REQUIRED, BUT NOT LESS THAN 75'.
   C. THICKNESS - NOT LESS THAN 4' ABOVE TOP OF GEOCELL.
2. WIDTH - 16' MINIMUM FOR ONE WAY TRAFFIC; 24' MINIMUM FOR
   TWO-WAY TRAFFIC; BUT NOT LESS THAN THE FULL WIDTH AT POINTS
   WHERE INGRESS OR EGRESS OCCURS.
3. GEOCELL NOT LESS THAN 8" IN DEPTH WILL BE PLACED OVER THE
   ENTIRE AREA PRIOR TO PLACING OF STONE.
4. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED
   TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE
   ENTRANCE. IF PIPING IS IMPractical, A MOUNTABLE BERM WITH 1:5
   SLOPES WILL BE REMOVED IMMEDIATELY.
5. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A
   CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF
   SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE
   PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS
   DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO
   TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR
   TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED
   IMMEDIATELY.
6. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED
   AFTER HEAVY USE AND EACH RAINFALL EVENT.
7. TO BE USED TO REDUCE OR ELIMINATE TRACKING OF SEDIMENT ONTO
   PUBLIC STREETS, PLACE AT ALL POINTS OF CONSTRUCTION INGRESS
   AND EGRESS TO REDUCE OR ELIMINATE TRACKING OF SEDIMENT ONTO
   PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING
   WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR
   CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL
   SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC
   RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.
8. TO BE USED TO REDUCE OR ELIMINATE TRACKING OF SEDIMENT ONTO
   PUBLIC STREETS, PLACE AT ALL POINTS OF CONSTRUCTION INGRESS
   AND EGRESS TO REDUCE OR ELIMINATE TRACKING OF SEDIMENT ONTO
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   RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE
STANDARD SYMBOL

NOTES:
1. FOR LOCATIONS AND HEIGHTS OF ROCK CHECK DAMS REFER TO CONSTRUCTION
   DRAWINGS.
2. TEMPORARY ROCK CHECK DAMS SHALL BE REPLACED WHEN THEY CEASE TO
   FUNCTION AS INTENDED DUE TO WASHOUT OR CONSTRUCTION TRAFFIC DAMAGE.
3. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 50% OF DAM HEIGHT. THIS
   PRACTICE IS NOT A SUBSTITUTE FOR MAJOR PERIMETER TRAPPING SUCH AS A
   TEMPORARY SEDIMENT TRAP OR BASIN.
4. SPACING BETWEEN DAMS SHALL BE SUCH THAT THE TOE OF THE UPSTREAM
   DAM IS AT THE SAME ELEVATION AS TOP OF RIPRAP AT THE CENTER OF THE
   DOWNSTREAM DAM.
5. WHEN A TEMPORARY ROCK CHECK DAM IS IN THE CLEAR ZONE, IT MUST BE
   MADE TRAVERSABLE TO AN ERRANT VEHICLE. THE MAXIMUM UNSHIELDED
   TRANSVERSE SLOPE ALLOWED TO FACE TRAFFIC SHALL BE 1:5 (V:H) AND THE
   MAXIMUM TRANSVERSE FACING AWAY FROM TRAFFIC SHALL BE 1:10 (V:H)
   (FOR USE WITH RIPRAP)
6. TEMPORARY CULVERT AS NECESSARY
7. UNSHIELDED TEMPORARY ROCK CHECK DAMS SHALL HAVE AN ADDITIONAL LAYER
   OF 8" GEOCELL TO THE ENTIRE BASE OF THE TEMPORARY ROCK CHECK DAM.
8. THE ROCK CHECK DAM. THE FILTER FABRIC SHALL BE PLACED ALONG THE
   TRANSITION OF CA-3 COURSE AGGREGATE (6" MIN.) PLACED ON THE DOWNSTREAM SIDE OF
   THE TEMPORARY ROCK CHECK DAM. THE FILTER FABRIC SHALL BE PLACED ALONG THE
   ENTIRE BASE OF THE TEMPORARY ROCK CHECK DAM.

STANDARD SYMBOL

TEMPORARY EROSION
AND SEDIMENT CONTROLS

STANDARD K1-08
**NOTES:**

1. **STEP 1**
   - Place the end post of the second fence inside the end post of the first fence.

2. **STEP 2**
   - Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.

3. **STEP 3**
   - Drive both posts a minimum of 24" into the ground.

**ATTACHING TWO SILT FENCES**

1. **STEP 1**
   - Drive both posts a minimum of 24" into the ground.

2. **STEP 2**
   - Rotate both posts at least 180 degrees in a clockwise direction.

3. **STEP 3**
   - Place the end post of the second fence inside the end post of the first fence.

**PARTS OF THE FENCE**

- **Wood Post or Metal Stake:** Typical.
- **Continuous Fence Fabric:** Not shown.
- **SILT FILTER J-HOOK PLACEMENT:**
  - Wood post or metal stake:
  - J-Hook:
  - Sheet flow:

**SILT FILTER J-HOOK PLACEMENT**

1. **STEP 1**
   - Drive both posts a minimum of 24" into the ground.

2. **STEP 2**
   - Rotate both posts at least 180 degrees in a clockwise direction.

3. **STEP 3**
   - Place the end post of the second fence inside the end post of the first fence.

**SILT FENCE (SF)**

- **Standard Symbol:**
- **Notes:**
  - Fence posts: 2"x2" (nominal) hardwood or schedule 40 metal pipe or 1.33 lb/ft min. standard T or U section steel posts.
  - When two sections of silt fence fabric adjoin each other they shall be securely fastened per the detail attaching two silt fences.
  - Maintenance shall be performed as needed. Silt build up against fence shall be removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
  - Fence post: 48" min. fence post, driven min. 24" into ground.
  - EMBED SILT FENCE FABRIC MIN. 8" INTO COMPACTED GROUND, TRENCH 8"x8" (MIN).
  - When two sections of silt fence fabric adjoin each other they shall be securely fastened per the detail attaching two silt fences.
  - This device is to control sheet flow only. Do not use for concentrated flows, drainage channels, above or below drainage pipes.

**Temporary Erosion and Sediment Controls**

- **Standard K1-08**

**Perspective View**

- **Perspective view:**
- **Section:**
- **Height of silt fence:**
- **Flow:**
- **48" min. fence post, driven min. 24" into ground**
- **Embed silt fence fabric min. 8" into compacted ground, trench 8"x8" (min).**
NOTES:
1. PENDING SHALL BE 36" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH ILLINOIS TOLLWAY STANDARD DRAWING F11, RIGHT-OF-WAY FENCE, TYPE 1. THE SPECIFICATION FOR A 6' FENCE SHALL BE USED, SUBSTITUTING 36" FABRIC AND 6' LENGTH POSTS.
2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES. THE LOWER TENSION POST, SPACING AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED. PULL POSTS, CORNER POSTS, HORIZONTAL BRACING AND THE RODS ARE NOT REQUIRED.
3. SILT FENCE FABRIC SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.
4. WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED 2' HORIZONTALLY.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED. SILT BUILD-UP AGAINST FENCE SHALL BE REMOVED WHEN SILT REACHES 50% OF FENCE HEIGHT.
6. SUPER SILT FENCE IS TO BE USED TO PROTECT ENVIRONMENTALLY SENSITIVE AREAS AND CONTROL SEDIMENT RUNOFF FROM CONSTRUCTION SITES WHEN ADDITIONAL REINFORCEMENT IS REQUIRED DUE TO SLOPE OF SITE OR VOLUME OF STORM WATER RUNOFF.

SUPER SILT FENCE (SSF)
STANDARD SYMBOL
SSF

NOTES:
1. A MINIMUM 50' WIDE VEGETATED BUFFER STRIP SHALL BE PRESERVED AND/OR RE-ESTABLISHED WHERE POSSIBLE ALONG EXISTING CHANNELS.
   a. FOR ANY WATERS OF THE U.S. DETERMINED TO BE A HIGH-QUALITY AQUATIC RESOURCE, THE BUFFER MUST BE A MINIMUM OF 100'.
   b. FOR ANY WATERS OF THE U.S. THAT DO NOT QUALIFY AS WETLAND (FOR EXAMPLE LAKES, RIVERS, PONDS, ETC.), THE BUFFER MUST BE A MINIMUM OF 50' FROM THE ORDINARY HIGH WATER MARK (OHWM).
   c. FOR ANY JURISDICTIONAL WETLAND, THE BUFFER MUST BE A MINIMUM OF 50'.
2. THE 5' GAPS IN THE SILT FENCE AND THE 12" DIAMETER TEMPORARY DITCH CHECKS ARE TO ALLOW FLOODWATER FLOW INTO THE CREEK FROM THE SITE WITHOUT DAMAGE TO THE SILT FENCE.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT SHALL BE REMOVED WHEN IT REACHES 50% OF ROLL HEIGHT. WHEN THE ROLLED EXCLUSION LOG IS REDUCED TO 50% OF ROLL HEIGHT IT SHALL BE REPLACED.

CREEK BUFFER STRIP AND SILT FENCE
**CULVERT INLET PROTECTION - FENCE**

**NOTES:**
1. Construct super silt fence per Sheet 6 in this series, except the maximum post spacing shall be 3 feet and the tops of posts shall be crossed braced.
2. Maintenance shall be performed as needed, sediment shall be removed when it reaches 50% of the fence height.
3. The culvert inlet protection and sediment shall be removed when construction is complete.
4. The culvert inlet protection - fence to be measured and paid for as super silt fence.

**CULVERT INLET PROTECTION - STONE**

**NOTES:**
1. Maintenance shall be performed as needed, sediment shall be removed when it reaches 50% of the stone height.
2. The culvert inlet protection and sediment shall be removed when construction is complete.
3. The culvert inlet protection - stone to be measured and paid for as temporary riprap.
NOTES:

1. Wooden frame is to be constructed of 2"x4" construction grade lumber. At the contractor's option, the wood frame can be substituted using 2 1/2" galvanized or aluminum posts installed as specified for Super Silt fence.

2. Maintenance shall be performed as needed and silt removed when it reaches 50% of fence height.

3. To be used to protect existing and new inlets, catch basins and manholes with open lids in non-paved areas.

RECTANGULAR INLET PROTECTION

STANDARD SYMBOL

FLAT TOP CERTIFICATION:

WOOD FRAME

POLYETHYLENE FRAME

NOTES:

1. Flotation boom for use in moving water shall be anchored to prevent drift shoreward or downstream. Anchorage shall be installed on both shore and stream side. Booms are not to be installed across flowing body of water.

2. Shore anchors shall consist of a post with deadman or approved equal. Stream anchors shall be of sufficient size to stabilize the barrier with number and spacing dependent on waterway velocities.

3. Fabric sections shall be connected end to end with minimum 5/8" diameter polypropylene rope.

4. Design of boom and anchorage shall be in accordance with manufacturer's recommendations. Bottom of boom shall reach bottom of waterway using one vertical section as required.

5. Maintenance shall be performed as needed. Contractor shall remove the boom at completion of work in a manner that will prevent siltation of the waterway.

6. Construction debris/materials shall be removed immediately to prevent damage to the curtain and entry into the waterway.

7. Flotation booms to be used to control turbidity when working in waterways.
**FILTER FABRIC INLET PROTECTION - COVER TYPE**

- **NOTES:**
  1. COVER TYPE INLET PROTECTION SHALL CONSIST OF FABRIC SLEEVE AND, IF NEEDED, CURB FILTER.
  2. DEVICE SHALL BE EQUIPPED WITH AN OVERFLOW GAP SO DRAINAGE TO INLET IS NOT COMPLETELY BLOCKED IF DEVICE IS FULL OF SILT.
  3. MAINTENANCE SHALL BE PERFORMED AS NEEDED. REMOVE SILT FROM FABRIC INSERT WHEN SEDIMENT ACCUMULATES. THE FILTER BECOMES CLOGGED, AND/OR PERFORMANCE IS COMPROMISED. WHEN THERE IS EVIDENCE OF SEDIMENT ACCUMULATION ADJACENT THE THE INLET PROTECTION MEASURE, THE DEPOSITED SEDIMENT SHALL BE REMOVED BY THE END OF THE SAME BUSINESS DAY IN WHICH IT IS FOUND OR BY THE END OF THE FOLLOWING BUSINESS DAY IF REMOVAL THE SAME BUSINESS DAY IS NOT FEASIBLE.
  4. STORM SEWER GRATE SHALL BE COMPLETELY ENCLOSED BY FABRIC.
  5. GRATE AND FILTER ARE TO BE SET SECURELY BACK IN FRAME.

**FILTER FABRIC INLET PROTECTION - BASKET TYPE**

- **NOTES:**
  1. MONOFILAMENT FABRIC INLET PROTECTION SHALL CONSIST OF INLET BASKET, FRAME AND FABRIC INSERT.
  2. DEVICE SHALL BE EQUIPPED WITH AN OVERFLOW FEATURE SO DRAINAGE TO INLET IS NOT COMPLETELY BLOCKED IF DEVICE IS FULL OF SILT.
  3. INLET BASKET IS AVAILABLE TO FIT ROUND, RECTANGULAR, BEEHIVE OR CURB INLET CASTINGS.
  4. MAINTENANCE SHALL BE PERFORMED AS NEEDED. REMOVE SILT FROM FABRIC INSERT WHEN 50% OF CAPACITY IS REACHED. REMOVE SILT FROM INTERIOR AND EXTERIOR OF INLET COVER WHEN 50% OF COVER HEIGHT IS REACHED. WHEN THERE IS EVIDENCE OF SEDIMENT ACCUMULATION ADJACENT THE THE INLET PROTECTION MEASURE, THE DEPOSITED SEDIMENT SHALL BE REMOVED BY THE END OF THE SAME BUSINESS DAY IN WHICH IT IS FOUND OR BY THE END OF THE FOLLOWING BUSINESS DAY IF REMOVAL THE SAME BUSINESS DAY IS NOT FEASIBLE.

**TREE PROTECTION**

- **NOTES:**
  1. THE FENCE SHALL BE LOCATED 1 FOOT MINIMUM OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
  2. THE FENCE SHALL BE HIGH VISIBILITY PLASTIC OR WOOD, 6" WITH SNOW FENCE TO CLEARLY DELINEATE THE PROTECTION AREA.
  3. USED TO PROTECT TREES FROM DISTURBANCE AND FROM EQUIPMENT TRAVELING OVER THE ROOT ZONE.