STORMWATER PIPE PROFILE 5: CR-04 - MAIN BUILDING
1. Inspect every 6 months during the first year of operation. Adjust the inspection interval based on previous observations of sediment accumulation and high water elevations.

2. Conduct jetting and vactoring annually or when inspection shows that maintenance is necessary.
**Description**

- **Configuration Options**
  
<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1 - 4&quot; Outlet; 1 - 2.5&quot; Outlet</td>
</tr>
<tr>
<td>B</td>
<td>1 - 4&quot; Outlet; 2 - 2.5&quot; Outlets</td>
</tr>
<tr>
<td>C</td>
<td>2 - 4&quot; Outlets; 1 - 2.5&quot; Outlet</td>
</tr>
</tbody>
</table>

**Notes**

1. Where a concrete sidewalk does not exist, a 4" thick concrete pad, 3' x 3', shall be poured around break-off valve assembly at final grade.

2. All bolts and nuts to be standard-grade 5 zinc-plated.

**ITEM**

1. Break-Off Check Valve
2. NYSDEC Approved Hydrant
3. 3" Wide Color Coded Reflective Marking Tape
4. Gate Valve
5. Install 6-Digit Fire Hydrant Alphanumeric Identification Number
6. Contractor shall backfill excavation under existing curb and gutter with 1 sack slurry mix to 1" above bottom of gutter. Slurry shall be thoroughly compacted by mechanical compaction equipment (i.e. vibrators).

---

**Fire Hydrant Detail**
The purpose of the project is to construct a primary school building and secondary indoor gymnasium with associated paved roads and parking area. Approximately 3.5 acres will be disturbed during this construction period. The site is 10.67 acres located in the City of White Plains, 20 miles North of New York City.

SITE DESCRIPTION

The site has generally steep topography with slopes around 15°-20° in most of the parcel to be developed. Steeper portions and rock outcrops are present in the Northern half of the site, which is not proposed for development. The area currently is covered with dense vegetation. There is no evidence of significant erosion under present site conditions.

ADJACENT PROPERTY

Land use in the vicinity is low-density residential and commercial. The land immediately to the west has developed for commercial use. Areas to the north are primarily single-family residential. Areas to the east are undeveloped and heavily wooded, including Silver Lake Park.

LAND CLEARANCE AND SEDIMENT CONTROL PRACTICES

1. Sediment Basins: A sediment basin will be constructed on the south face by Lake St. All water from disturbed areas, including 3 acres, will be directed to the basin before leaving the site.

2. Temporary Road Construction Entrance/Exit: A temporary gravel construction entrance will be installed near the south face by Lake St. During wet weather it may be necessary to wash vehicle tires at this location. The entrance will be graded so that runoff water will be directed to an inlet protection structure and away from the steep fill area to the north.

3. Temporary Block and Gravel Drop Inlet Protection: A temporary block and gravel drop inlet protection will be installed at the construction entrance. Runoff from the device will be directed into the sediment basin and out of the site.

4. Temporary Diversion: Temporary diversions will be constructed above the 4-1/2 cut slopes north of the proposed buildings to prevent surface runoff from eroding these banks.

5. Land Grading: Heavy grading will be required on approximately 3 acres. The flatter slope after grading will reduce the overall erosion potential of the site. The buildings will be located on the higher cut areas, and the access road and open landscaped areas will be located on the cut and fill areas. All cut slopes will be 4:1 or steeper to avoid instability due to runoff, provide fill material, and to control erosion.

6. Surface Stabilization: Stabilization of the surface will be accomplished with hydroseeding or surfaces with proposed slopes greater than 3:1, and surfaces with proposed grass covers. Soil blankets will be used on all other surfaces not stabilized with hydroseeding.

CONSTRUCTION SCHEDULE

1. Obtain permits and other applicable permits.
2. Flag the wet areas and mark the soil tree and buffer area for protection.
3. Hold pre-construction conference at least one week prior to starting construction.
4. Install sediment basins as the first construction activity.
5. Install storm drain with block and gravel drop inlet protection at construction entrance/exit.
6. Install temporary gravel construction entrance/exit.
7. Construct temporary diversions above proposed building sites.
8. Construct temporary drainage systems above proposed building sites.
9. Complete site clearing.
10. Complete the slopes around buildings as soon as grading is complete. Leave the surface slightly roughened and vegetate and mulch immediately.
11. Complete final grading for roads and parking and stabilize with gravel.
12. Complete final grading for all construction activities.
13. Complete final grading of grounds, temporary critical areas, and permanently vegetate, landscape, and mulch.
14. All erosion and sediment control practices will be inspected weekly and other pre-existing conditions. Needed repairs will be made immediately.
15. After the site is stabilized, remove all temporary drainage systems and install permanent vegetation on the disturbed areas. Install trench drain prior to final site preparation.
16. Complete final grading for roads and parking and stabilize with gravel.

MAINTENANCE PLAN

All erosion and sediment control practices will be monitored and operated following the above guidelines, but in no case less than once every week. Any needed repairs will be made immediately to maintain all practices designed and installed for their proposed phase of the project.

1. The sediment basin will be cleaned out when the level of sediment reaches 2.0 ft below the top of the basin. Gravel will be cleaned or replaced when the sediment pool has been approximately 50% filled. Gravel will be cleaned or replaced when the sediment pool has no longer drains properly.
2. Sediment will be removed from the sediment trap and block and gravel drop inlet protection device when storage capacity has been approximately 50% filled. Gravel will be cleaned or replaced when the sediment pool no longer drains properly.
3. Sediment will be removed from behind the sediment fence when it becomes about 0.5 ft deep at the fence. The sediment fence will be repaired as necessary to maintain a barrier.