



## ACS Crossroads Detention Center Playground

AG's scope is to provide plumbing engineering design services to provide ground floor sprinklers, drinking water fountains with associated drains, concrete pad and heat trace.

The scope of work includes, but not limited to:

- Site survey.
- Review of existing drawings.
- Design water sprinklers at the play area.
- Show layout of pipe, size to the new sprinklers.
- Design to provide cold water connection to the ground floor sprinkler and water fountains.
- As per sprinkler manufacturer catalog cuts, the water pressure needed is 30 PSI. AG will apply for Hydrant Flow Test from DEP to determine the water pressure in the street. Based upon the test results, AG will calculate how much water pressure will be available for the new ground sprinklers in the play area. AG will design the PRV or booster pump, as needed to provide manufacturer's recommended pressure.
- Provide new trench drains for playground sprinklers.
- Provide sanitary design to drain the water from the sprinkler and water fountains and connect to the sanitary line.
- Design piping for new water fountain and replace the existing water fountain with new.
- Design heat tracing to exposed water piping where required.



**A.G. CONSULTING ENGINEERING, PC**

**Location:**

New York, NY

**Owner:**

NYC Administration  
for Children's Services

**Services Provided:**

Plumbing

Fire Protection

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