



February 4, 2025
Project No.: 24-2124.05

via email: KStansbury@GilbaneCo.com

Jason Bing, Director Capital Programs
Ann Arbor Public Schools
2555 South State Street
Ann Arbor, MI. 48105

**RE: Storm Water Management System Engineering Review
Slauson Middle School
Ann Arbor Public Schools
City of Ann Arbor, Washtenaw County, MI**

Dear Jason:

PEA Group has completed our review of the engineering plans and reports for improvements to Slauson Middle School as related to section 2.5 of the district's current stormwater management plan (SWMP) and have the following comments.

General:

1. Please note items within Bid Package 2 Work Limits were not included for review. It is noted on the plans to refer to Construction Manages Logistics plan and work scope for temporary construction facilities. These should also be reviewed when they become available.
2. The County Drain should be labeled throughout the site and all potential construction crossings with the enclosed County Drain should be clearly indicated.
3. Section 2.5.6 of the SWMP suggests phasing to be considered to limit the amount of exposed soil and section 2.5.7 states that one of the goals of the SWMP is to minimize grading. The current plans do not address either of these issues clearly and should be reviewed and the applicable revisions be completed.

SESC & Staging Plan Sheets (Sheets C200 – C210):

1. Filter Fabric Fencing shall be installed parallel to contours to be effective in capturing sediment. Refer to plans for comments regarding Filter Fabric.
2. SESC measures, such as, Sediment Retention Barrier, shall be added along northern drive and Eighth St. to capture run-off at bottom of slope during construction.
3. Provide interim SESC BMP at bottom of steep slope at top of elevated concrete walk to prevent excess sediment from entering the northern drive ahead of storm inlet filters (in addition to perimeter measures).

4. Rip rap is considered a permanent SESC BMP and is not shown on the SESC plan sheets for the outlet to the rain garden. Add Rip-Rap callouts and details to C210.

Sheet C601 & C603 – Site Utility Plan – Areas A & C:

1. Callouts for the Proposed Underground Infiltration and Detention System ADS unit and the Proposed SWM Detention and Infiltration should include estimated volumes provided by each.

Sheet C651 –Stormwater Management Plan:

1. The Stormwater Narrative and Calculations need clarification:
 - a. Drainage Area 2 (proposed drive and lawn)– Clarify where and how the additional area will be accounted for and include calculation for the estimated volume.
 - b. Drainage Area 3 – Clarify estimated volume and which detention basin it has been added to account for this volume.
 - c. Drainage Area 4 – Indicates that this area cannot be detained, clarify reasoning. It appears that Existing Structure 33 could be modified to include Outlet Control/Water Treatment Unit. Further, the regraded depression appears to provide a certain volume of detention, add estimate of volume.
 - d. Add a summary of calculated, required and provided volumes for each Drainage Area. The ‘table’ mentioned in the last sentence of the narrative appears to have been unintentionally omitted.
2. For Drainage Area 4, There appears to be offsite drainage contributions that should be accounted for as part of the estimated required detention volumes.

Sheet C900 - C904 – Stormwater Utility Details:

1. C900 -Rims and Inverts for the Outlet Control Structures R230 and R520 were not provided.
2. C900- The Riser Outlet Structure 7 detail needs updating to reflect site specific application.
3. C902 – Complete all site-specific data requirements for each of the Cascade units. Reference the calculation for treatment flows and Total Suspended Solids removes.
4. The plan view for the units should be updated to reflect the direction of pipes that the plan sheets for each unit respectively.
5. C904 – The volumes of storage both within the unit and that portion that is to be infiltrated or stored within the stone voids shall be separated out and included within the calculations.
6. The items noted above are helpful for the district’s operation and maintenance staff so they did not have to search through the plans for the information and it is on the same plan sheet as the other information for the units.

All other requirements of section 2.5 of the district’s current stormwater management plan appear to have been met.

For the district’s use and reference, attached are copies of the plan sheets redlined with the comments stated above.

Please feel free to contact us with any questions or if additional information is needed.

Sincerely,

PEA Group

A handwritten signature in black ink, appearing to be 'R. Rochon', written in a cursive style.

Robert S. Rochon, P.E.
Associate/Senior Project Manager