

Elevating the Quality of Life in the District



**LAFAYETTE ELEMENTARY SCHOOL MODERNIZATION
LIGHTING & SOUND DESIGN UPDATE
JUNE 07, 2016**





MEETING AGENDA

- EXTERIOR / SITE LIGHTING
- HVAC SOUND DATA
- Q&A



EXTERIOR / SITE LIGHTING – Design Summary

- Code Requirements
- Fixture Data Summary
- Controls / Timers

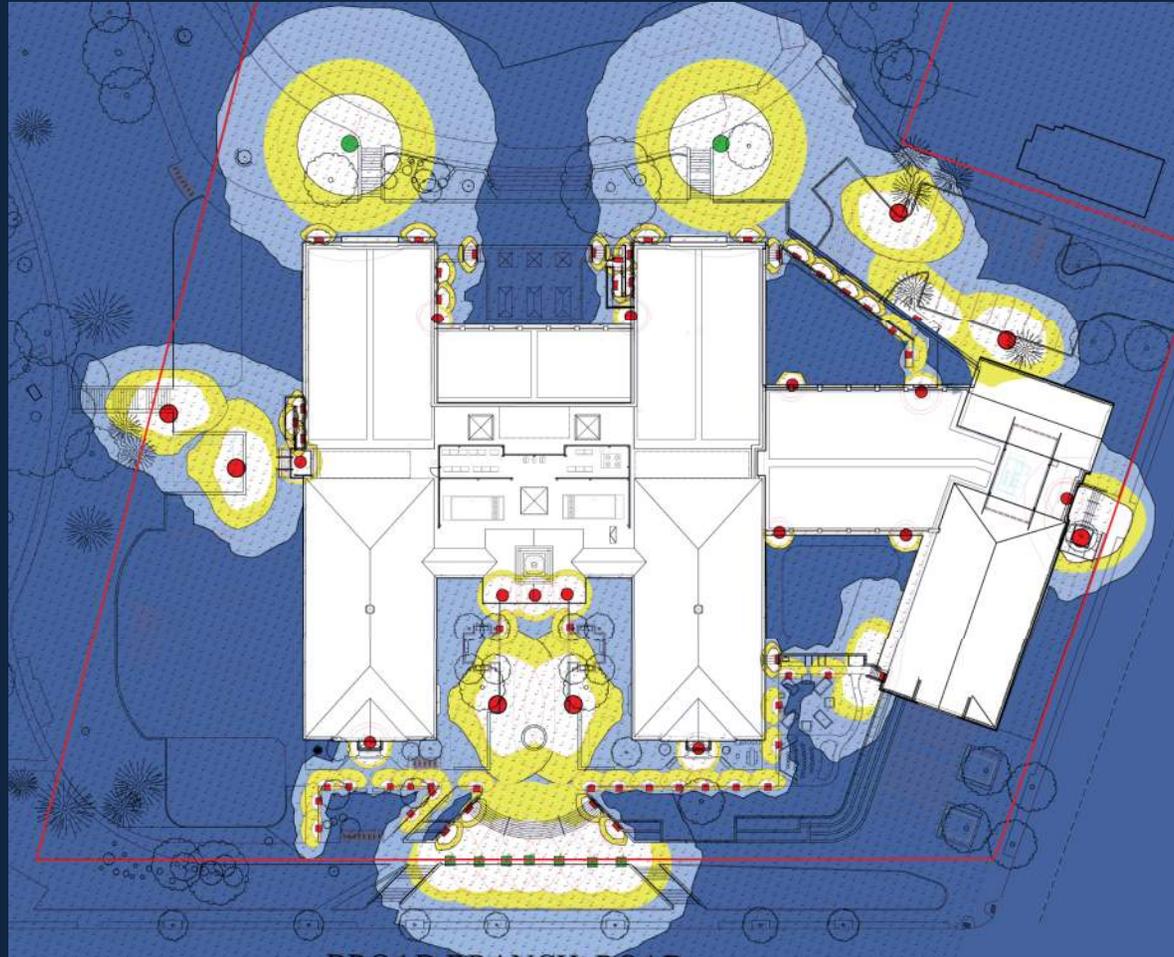
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EXTERIOR / SITE LIGHTING — Previously Existing



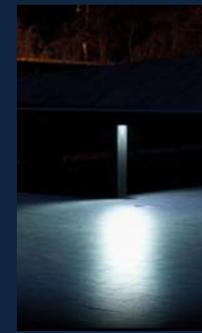
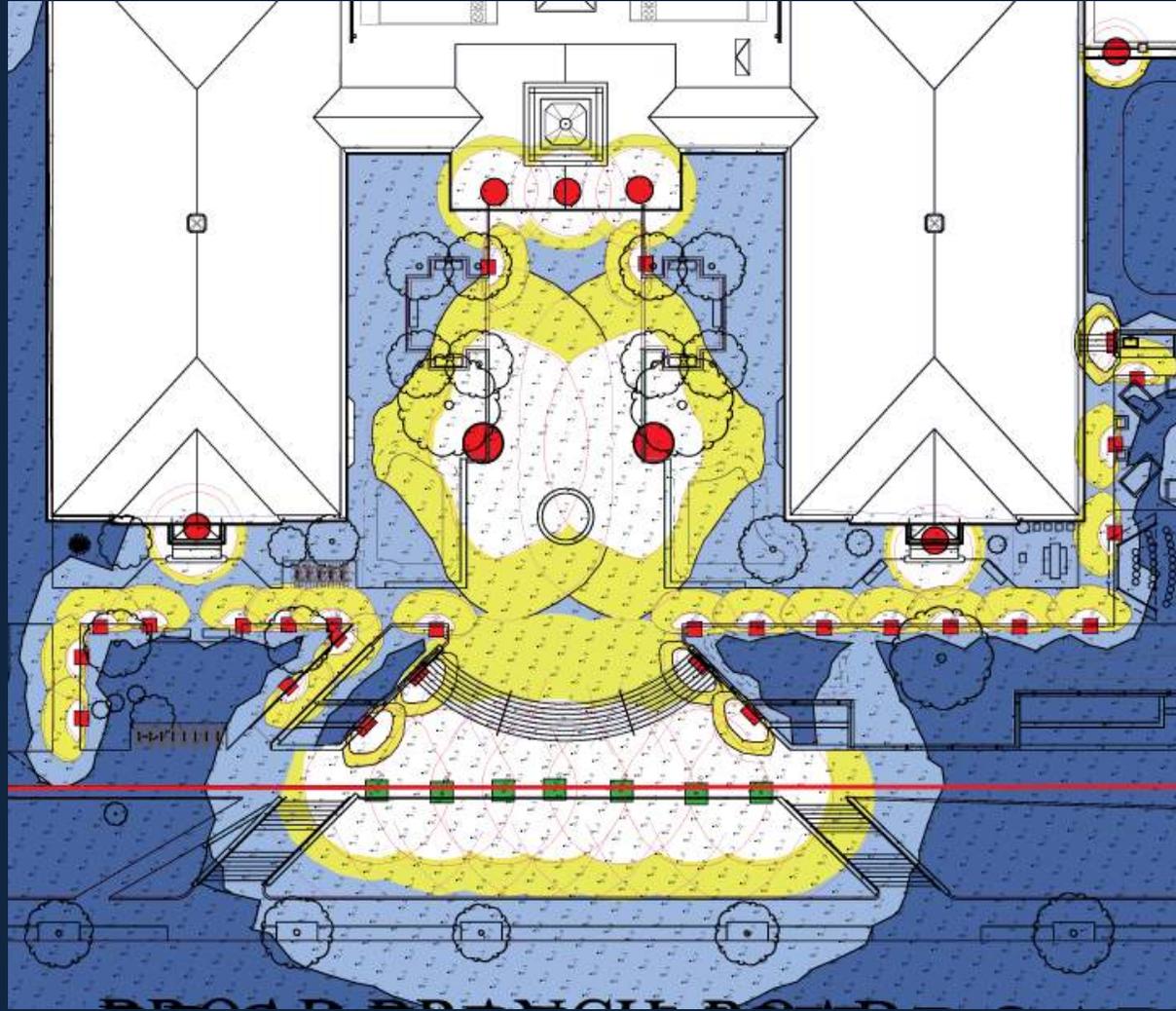
EXTERIOR / SITE LIGHTING – Updated Design



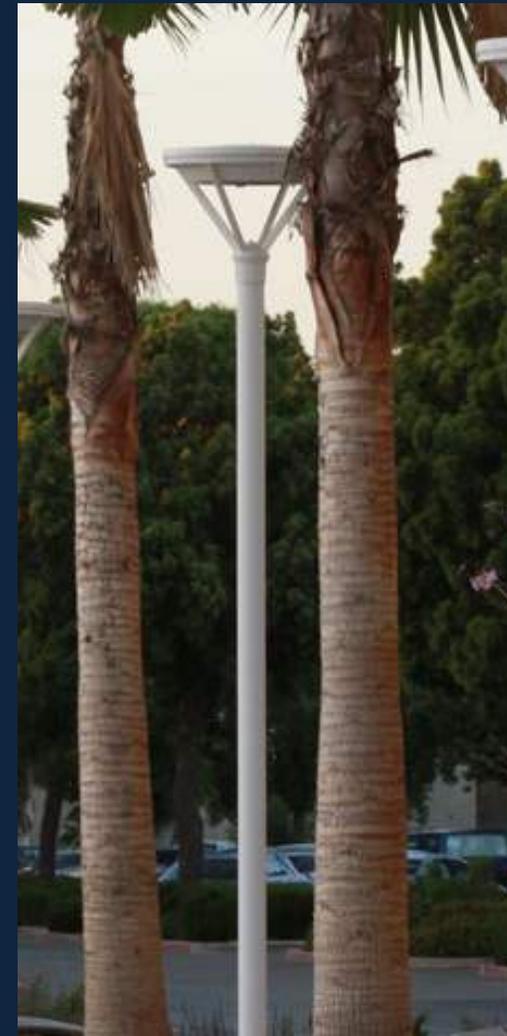
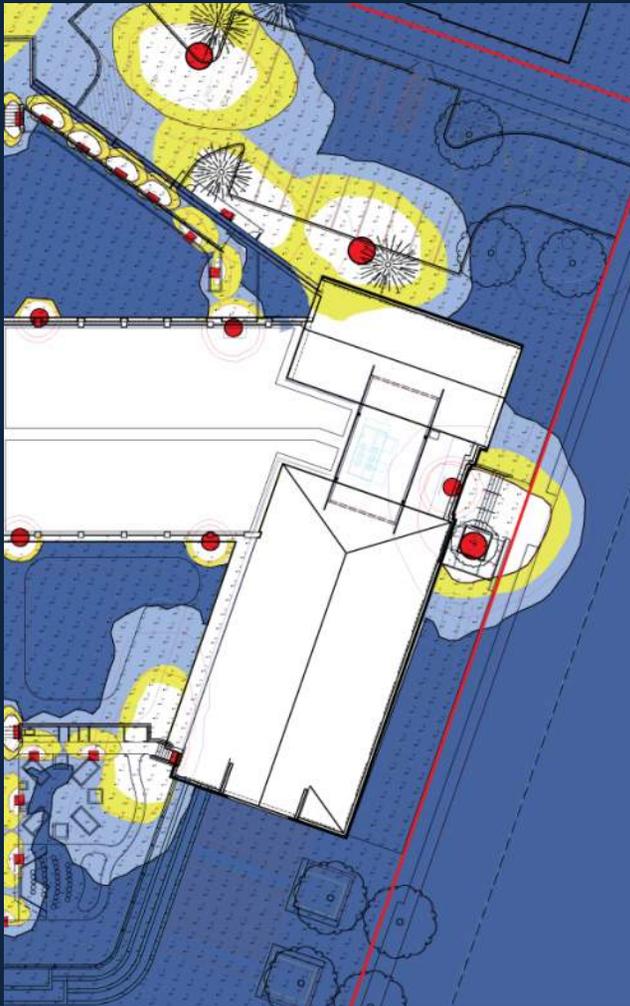
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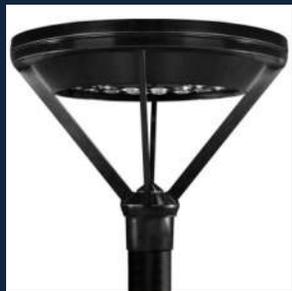
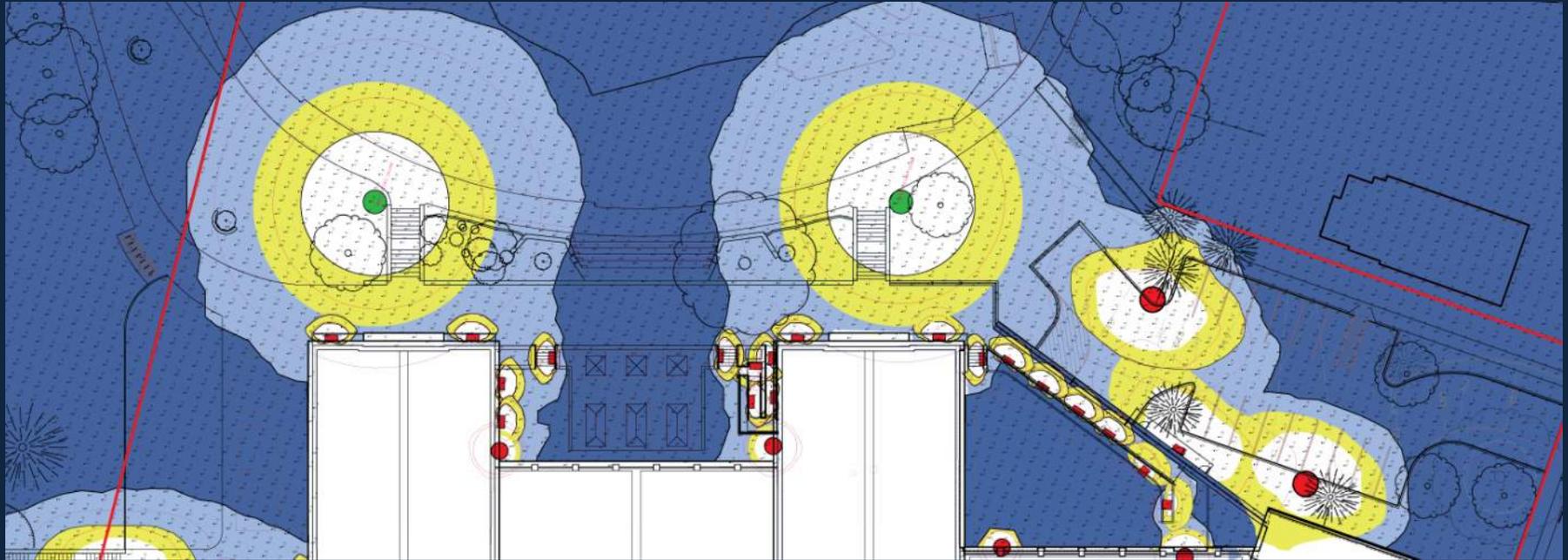
EXTERIOR / SITE LIGHTING — Main Entrance @ Broad Branch Rd. NW



EXTERIOR / SITE LIGHTING — South Entrance & Parking Lot



EXTERIOR / SITE LIGHTING — East Entrances & Parking Lot



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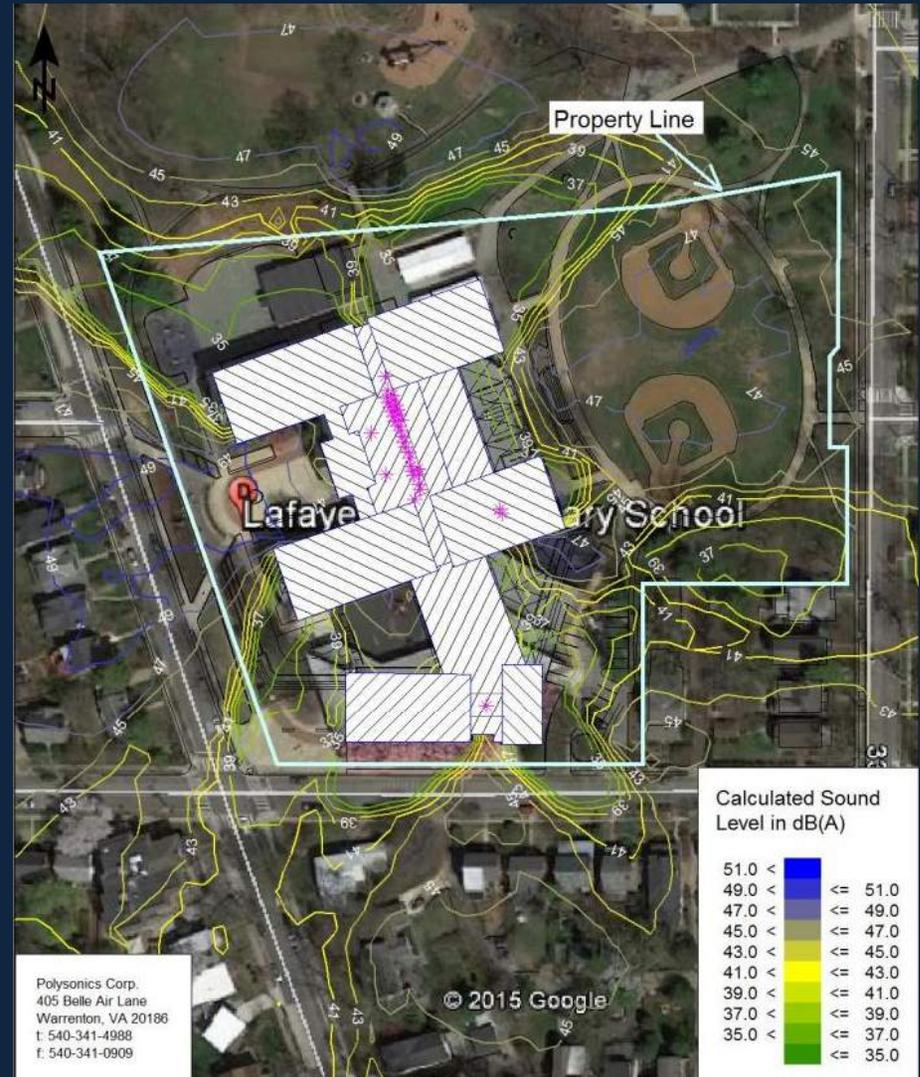
HVAC SOUND DATA

Daytime (Assumed 100% Operation of MEP)
5' above Grade Plane

Conversation in restaurant, office, background music, Air conditioning unit at 100 ft	60	Half as loud as 70 dB. Fairly quiet
Quiet suburb, conversation at home. Large electrical transformers at 100 ft	50	One-fourth as loud as 70 dB.
Library, bird calls (44 dB); lowest limit of urban ambient sound	40	One-eighth as loud as 70 dB.
Quiet rural area	30	One-sixteenth as loud as 70 dB. Very Quiet
Whisper, rustling leaves	20	
Breathing	10	Barely audible

Local Sound

McKinley and Broad Branch (After construction site shut down)
High of 70 when metro bus went by
Low of 53 (no local traffic, only wind and ambient noise)



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HVAC SOUND DATA

Daytime (Assumed 100% Operation of MEP)
25' above Grade Plane

Conversation in restaurant, office, background music, Air conditioning unit at 100 ft	60	Half as loud as 70 dB. Fairly quiet
Quiet suburb, conversation at home. Large electrical transformers at 100 ft	50	One-fourth as loud as 70 dB.
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HVAC SOUND DATA

Night with Special Event (Select Equipment at 25%)
5' above Grade Plane

Conversation in restaurant, office, background music, Air conditioning unit at 100 ft	60	Half as loud as 70 dB. Fairly quiet
Quiet suburb, conversation at home. Large electrical transformers at 100 ft	50	One-fourth as loud as 70 dB.
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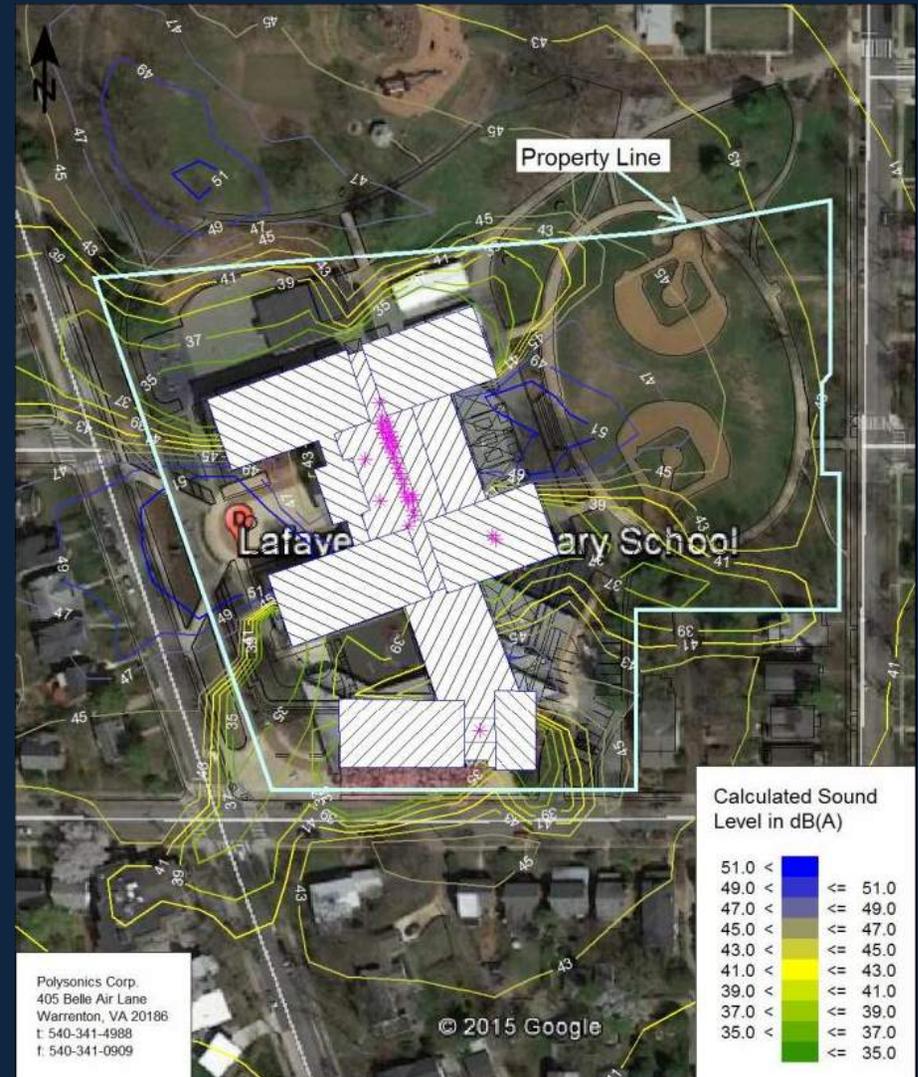
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NEXT STEPS & PROJECT SCHEDULE

- June 2016 – Submission & Approval of Final SWM Design
- June 2016 - Finalize Play Equipment
- June 17th, 2016 - Trailer disconnection & removal begins
- June 2015 - August 2016: Lafayette ES - Modernization Construction
- October 2016 – Site work complete

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Comments / Questions / Answers





DISTRICT OF COLUMBIA
PUBLIC SCHOOLS



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