

January 20, 2021





Overview of the Bond

2017 Work Completed

2018 Work Completed

2019 Work Completed

2020 Work Completed

2021 Projected Work

Administration Facility Renovations

Print Shop Move

Sterling Heights High School – Entry Landscaping

Financial Summary

Questions and Discussion



Overview of Bond



Why Now?

- Interest rates remain at historic lows, allowing \$134.5 million to be invested in our schools for about \$1/week/home
- To stay ahead of technology is essential for today's learning environment
- To maximize our operating budget for inclassroom learning
- To best preserve our community's investment in millions of square feet of space across 27 facilities that, on average, are 40+ years old

2016 SCHOOL BOND PROPOSAL







Creating Dynamic Futures

Proposal to preserve our schools and remain comparable and competitive as one of Michigan's leading school districts

- Provides Essentials for a 21st Century Learning Environment
- Addresses Safety & Security, Technology, and Facilities
- · Costs Approximately \$1 per Week for Most Homeowners

VOTE: Tuesday, May 3, 2016



Overview of Bond



Benefits of the Bond:

- Creates modern learning setting
- Provides school safety and security enhancements
- Reduces utility costs through environmentally smart upgrades
- Maintains strong schools, which is an investment in the community and home

Bonderations:

- Work to be performed from 2016-2021
- Bonds sold in three series: 2016, 2018, & 2019
- All educational facilities will see initial improvements in 2017, with incremental upgrades over remaining term
- Each educational building will receive annual technology upgrades during term

\$134.5 Million Bond Program Features: • Upgraded technology and infrastructure to support 21st century learning **Technology** · Enhanced technology in each classroom Mobile learning devices for students \$25.3 Million · Replacement of obsolete computers Updated and expanded wireless network · Secure entry vestibules · Security card reader systems for doors · Security cameras District-Wide · Roofing and flooring replacements · Upgraded fire alarm panels Facility. Safety, and Security · Replacement of interior and exterior doors Improvements/upgrades to HVAC, plumbing, and **Improvements** lighting/electrical systems S751 Million Renovations/improvements to restrooms. locker rooms, and cafeterias · Energy enhancements · LED exterior light upgrades · Re-pavement of deteriorating parking lots and Sites, Fields, sidewalks and Playground Replacement of worn fences **Improvements** Upgrades to athletic fields, courts, tracks, etc. S21.2 Million · Upgrades to playground areas Bus. Furniture. Replacement of worn, unusable classroom furniture and Equipment · Replacement of school buses past useful life Replacement · Necessary band, athletic, and recess equipment \$12.9 Million



Overview of Bond | Bond Team



Owner's Representative

Plante Moran Cresa

Architect/Engineer

Wakely Associates, Strategic Energy Solutions

Construction Manager

Clark Construction

Technology Designer

Integrated Design Solutions

Engineering

Spalding DeDecker, Testing Engineers and Consultants

Environmental Consultant

Nova Environmental





Elementary Schools

- Angus Elementary
- Black Elementary
- Cromie Elementary
- Green Acres Elementary
- Harwood Elementary
- Holden Elementary
- Jefferson Elementary
- Lean Elementary
- Siersma Elementary
- Susick Elementary
- Wilde Elementary
- Wilkerson Elementary
- Willow Woods Elementary

Middle Schools

- Beer Middle
- Carleton Middle
- Carter Middle
- Grissom Middle

High Schools

- Cousino High
- Warren Mott High
- Sterling Heights High

Other Buildings

- Administration Building
- Butcher
 Educational Center
- Career Prep Center
- Educational Service Center
- Flynn Education
 Center
- Hatherly
 Educational Center



2017 Work | Elementary Schools



Item	Description of Work Performed
Playgrounds	Replacement of underdrainage, wood fiber, and equipment and accessories
Ballfields	Replacement and upgrade of fencing, benches, and infield mix
Parking Lots	Repavement, additions, extensions, crack fill, seal coats, collars, restriping, and sidewalk replacement
School Signs	Installations and replacements
Stage Curtain	Replacement of stage curtains and rigging
Boiler	Replacement of boiler equipment
Exterior Lighting	Replacement of parking lot lights to LED, and replacement of exterior building lighting
Security	Replacement of secure entry equipment at selected areas, and replacement or installation of new security cameras
Network	Installation of IT cabling, wireless system upgrades, network switch gear, and universal power systems (UPS)
Phone	Installation of Voice Over Internet Protocol (VOIP) phone system with unified messaging



2017 Work | Middle Schools & Other Buildings



Item	Description of Work Performed
School Sign	Replacement of school sign with new LED digital sign
Kitchen	Addition of new ovens
Security	Installation of secure entry equipment at selected areas, and replacement or installation of new security cameras
Network	Installation of IT cabling, wireless system upgrades, network switch gear, and universal power system (UPS)
Phone	Installation of Voice Over Internet Protocol (VOIP) phone system with unified messaging



2017 Work | Cousino High School



Item	Description of Work Performed
Athletic Fields	Installation of new tennis courts, running track, turf field, and stadium sound system
Parking Lot	Repaving of rear drive lanes and parking lots on south and west sides of school, as well as isolated structure repairs, concrete collars, sidewalk repairs, restriping, etc., around the site (additional work to be completed in 2018)
Doors & Floors	Replacement of selective doors, frames, hardware, and selective floors
Kitchen	Upgrades to the kitchen, including a new dishwasher and floor tile in the serving line
Boiler	Replacement of boiler equipment
Exterior Lighting	Replacement of parking lot lights to LED, and replacement of building wall lights
Pool	Upgrades to filter room and pool grouting
Flooring	Replacement of media center and band room flooring
Selective Demolition	Demolition of old portable classrooms
Security	Replacement and installation of new security cameras, including those at the stadium
Network	Installation of IT cabling, wireless system upgrades, network switch gear, universal power system (UPS), and stadium wireless
Phone	Installation of Voice Over Internet Protocol (VOIP) phone system with unified messaging
Computers & Laptops	Purchasing of new desktop and laptop computers



2017 Work | Warren Mott High School



Item	Description of Work Performed
Athletic Fields	Installation of new tennis courts, running track, turf field, and stadium sound system
Parking Lot	Repaving of rear drive lanes and parking lots on south and west sides of the school, isolated structure repairs, concrete collars, sidewalk repairs, restriping, etc., around the site (additional work completed in 2018)
Doors & Floors	Replacement of selective doors, frames, hardware, and selective floors
Kitchen	Upgrades to kitchen, including a new dishwasher and floor tile in the serving line
Exterior Lighting	Replacement of parking lot lights to LED, and replacement of building wall lights
Pool	Upgrades to filter room and pool grouting
Security	Replacement and installation of new security cameras, including those at the stadium
Network	Installation of IT cabling, wireless system upgrades, network switch gear, universal power system (UPS), and stadium wireless
Phone	Installation of Voice Over Internet Protocol (VOIP) phone system with unified messaging



2017 Work | Sterling Heights High School



Item	Description of Work Performed
Athletic Fields	Installation of new tennis courts, running track, turf field, and stadium sound system
Performing Arts Center	Installation of new stage curtains, renovation of lighting system, and renovation of audio visual systems
Doors & Floors	Replacement of selective doors, frames, hardware, and floors
Exterior Lighting	Replacement of parking lot lights to LED, and replacement of building wall lights
Security	Replacement or installation of new security cameras, including those at the stadium
Network	Installation of IT cabling, wireless system upgrades, network switch gear, universal power system (UPS), and stadium wireless
Phone	Installation of Voice Over Internet Protocol (VOIP) phone system with unified messaging





Elementary Schools

- Angus Elementary
- Harwood Elementary
- Holden Elementary
- Jefferson Elementary
- Willow Woods Elementary
- Wilkerson Elementary

Middle Schools

- Beer Middle
- Carleton Middle
- Carter Middle
- Grissom Middle

High Schools

- Cousino High
- Warren Mott High
- Sterling Heights High

Other Buildings

- Educational Service Center
- Hatherly Educational Center



2018 Work | Elementary Schools



Item	Description of Work Performed
Building Exterior	 Replace service doors and hardware Upgrade exterior door hardware Upgrade fascia Repair masonry
Building Interior	 Replace doors and hardware and re-key all doors Replace sinks, toilets, urinals, flooring, and faucets in the restrooms Update building signage Replace flooring in the media center, office, and stage Replace existing operable partitions with drywall partitions
Classrooms	 Replace classroom casework Upgrade window treatments Replace classroom flooring with Luxury Vinyl Tile
Plumbing	 Replace drinking fountains, and add water bottle filling station Replace classroom sinks
Electrical Systems	 Install power outlets and raceways for technology Upgrade existing fire alarm system operating software Upgrade lighting, interior emergency egress, and exit lighting
Technology	 Upgrade classroom instructional technology Replace computers Upgrade A/V systems



plante moran | cresa

2018 Work | Middle Schools



Item	Description of Work Performed	
Site Work	 Modify parking to improve traffic flow Replace concrete approaches, sidewalks, steps, and stoops Improve site drainage 	Install concrete collars around catch basinsUpgrade parking lot lighting
Building Exterior	Replace service doors and hardwareUpgrade exterior door hardware	Replace overhead doors
Building Interior	 Replace select doors and hardware, and rekey all doors Replace sinks, toilets, urinals, flooring, faucets, and toilet partitions in restrooms Update building signage Replace flooring in media center, office, band, and computer rooms 	 Renovate home economics room and shop area Replace art room casework Upgrade window treatments Refinish gym floor Replace stage curtains
Plumbing & HVAC	 Replace drinking fountains, and add water bottle filling station 	Replace boiler, pipes, and valvesUpgrade temperature controls system
Electrical Systems	 Install power outlets and raceways for technology Upgrade existing fire alarm system operating software 	 Upgrade lighting, emergency egress, exit lighting, and occupancy sensors
Technology	Upgrade classroom instructional technologyReplace computers	Upgrade A/V systems
plante moran	cresa	*Some buildings vary slightly 1



2018 Work | Cousino High School



Item	Description of Work Performed
Site Work	 Replace asphalt in north parking lot Replace visitor lot and front lane asphalt paving Modify parking to improve traffic flow Replace concrete approach Crack fill and seal coat existing parking lots
Building Interior	Refinish gym floor
Technology	 Upgrade classroom instructional technology Replace computers Upgrade A/V systems



2018 Work | Warren Mott High School



Item	Description of Work Performed
Site Work	Upgrade athletic field entrance
Building Interior	Refinish gym floor
Electrical Systems	 Install power outlets and raceways for technology Upgrade existing fire alarm system operating software Upgrade lighting, interior emergency egress, and exit lighting
Technology	 Upgrade classroom instructional technology Replace computers Upgrade A/V systems



2018 Work | Sterling Heights High School



Item	Description of Work Performed
Site Work	 Replace parking lot drives Modify parking to improve traffic flow Replace concrete approach, sidewalks, steps, and stoops Install concrete collars around catch basins Improve site drainage
Building Exterior	 Replace service doors and hardware Upgrade exterior door hardware and re-key Replace overhead doors
Building Interior	 Replace select doors and hardware Replace flooring in media center Refinish gym floor
Plumbing & HVAC Systems	 Upgrade pool filtration system Replace boiler, pipes, and valves Upgrade temperature controls Replace secondary boiler (pool/hot water)
Electrical Systems	Upgrade electrical panels (boiler room/elevator)Install occupancy sensors
Technology	 Upgrade classroom instructional technology Replace computers Upgrade A/V systems



2018 Work | Educational Service Center



Item	Description of Work Performed
Site Work	 Replace east, north, and south parking lots Replace service drive out to Mound Road Replace concrete approach, sidewalks, steps, and stoops Install concrete collars around catch basins Replace concrete pad for dumpster Improve site drainage and storm sewer system Replace fence and bollards Upgrade parking lot lighting Replace fuel island Install canopy for fuel island
Technology	Replace computersInstall additional security cameras





Elementary Schools

- Black Elementary
- Cromie Elementary
- Jefferson Elementary
- Siersma Elementary
- Susick Elementary
- Wilde Elementary

High Schools

- Cousino High
- Warren Mott High
- Sterling Heights High

Other Buildings

- Career Prep Center
- Educational Service
 Center
- ACM Door & Hardware Replacement
- Public AddressSystem Upgrades



2019 Work | Elementary Schools



Item	Description of Work to Be Performed
Sitework	 Replace concrete approaches, sidewalks, steps and stoops Replace concrete collars around catch basins
Building Exterior	Replace service doors and hardwareUpgrade exterior door hardware
Building Interior	 Replace door hardware Replace sinks, toilets, urinals, flooring, and faucets in the restrooms Update building signage Replace flooring in the corridor, media center, office, and stage Replace existing operable partitions with drywall partitions Replace gym flooring
Classrooms	 Replace classroom flooring with Luxury Vinyl Tile Replace classroom casework Upgrade window treatments
Plumbing	 Replace drinking fountains and add water bottle filling station Replace classroom sinks Replace boiler, pipes, and valves
Electrical Systems	 Install power outlets and raceways for technology Upgrade existing fire alarm system operating software Upgrade lighting, interior emergency egress, and exit lighting
Technology	 Upgrade classroom instructional technology Replace computers Upgrade A/V systems



2019 Work | Cousino and Mott High Schools



Item	Description of Work to Be Performed
Building Exterior	Upgrade exterior masonry
Building Interior	 Replace sinks, toilets, urinals, flooring, partitions, and faucets in the restrooms Replace flooring in art rooms and offices Refinish auxiliary gym floor (Mott) Replace gym wall pads, bleachers, and wrestling mats Replace gym lockers Replace athletic lockers Replace gym equipment Replace stage curtain (Cousino) Replace window treatments Replace art room casework Replace eyewash and emergency shower in science rooms Replace select doors and hardware Replace flooring on stage stairs/ramp
Plumbing & HVAC Systems	 Replace boiler glycol replacement Replace pool boiler and hot water heater (Cousino) Replace drinking fountains Replace shower towers in locker rooms Upgrade HVAC temperature controls (SHHS)
Electrical Systems	 Upgrade interior lighting Replace emergency and exit lighting Upgrade fire alarm panel Upgrades to football stadium lighting (including SHHS)



2019 Work | CPC



Item	Description of Work to Be Performed
Building Exterior	Replace service doors and hardwareUpgrade exterior door hardware
Site Work	Replace concrete approachesRemove kindergarten playground
Building Interior	 Replace select door hardware Replace sinks, toilets, urinals, flooring, faucets, and toilet partitions in restrooms Update building signage Replace flooring in the selected classrooms and office Upgrade window treatments
Plumbing & HVAC Systems	 Replace drinking fountains and add water bottle filling station Replace boiler, pipes, and valves Upgrade temperature controls system Replace roof top unit air handling equipment Replace French drain
Electrical Systems	 Upgrade lighting, emergency egress, exit lighting, and occupancy sensors Replace emergency and exit lighting Upgrade fire alarm panel
Technology	Upgrade classroom instructional technology



2019 Work | Service Center



Item	Description of Work to Be Performed
Building Exterior	 Upgrade of exterior masonry and metal panels Replace service doors and hardware
Building Interior	 Replace select doors and hardware Replace sinks, toilets, urinals, flooring, faucets, and toilet partitions in restrooms Update building signage Replace flooring in the corridors and office Upgrade window treatments Replace marker boards and tack boards
Plumbing & HVAC Systems	 Replace drinking fountains Replace kitchen air handling unit Upgrade temperature controls
Electrical Systems	 Upgrade interior lighting Replace emergency and exit lighting Upgrade fire alarm panel Install power outlets and raceways for technology





Elementary Schools

- Green Acres Elementary
- Lean Elementary
- Wilde Elementary

High Schools

- Cousino High
- Warren Mott High
- Sterling Heights High

Other Buildings/Projects

- Miscellaneous Roofing Projects
- Butcher Educational Center
- Purchase Buses
- Purchase Kitchen Equipment
- Pfromm Center
- Technology
 Enhancements



2020 Work | Various



Item	Description of Work to Be Performed (at buildings as applicable)		
Building Exterior	 Replace service doors and hardware Upgrade exterior door hardware Upgrade fascia Roofing upgrades where needed 	 Repair masonry Remove and replace dead/overgrown bushes Pfromm Center Demolition work 	
Building Interior	 Replace doors and hardware Replace sinks, toilets, urinals, flooring, and faucets in the restrooms Update building signage Replace flooring in the media center, office, and stage 	 Replace existing operable partitions with permanent drywall partitions Replace classroom casework Upgrade window treatments Replace classroom flooring with luxury vinyl tile 	
Plumbing & HVAC Systems	 Replace drinking fountains, and add water bottle filling station 	Replace classroom sinksReplace hot water heater	
Electrical Systems	 Install power outlets and raceways for technology Upgrade existing fire alarm system operating software 	 Upgrade lighting, interior emergency egress, and exit lighting 	
Technology	 Public address system upgrades – concurrently with 2019 renovation Installation of new interactive gym projection systems for K-5 Buildings 	 Upgrade classroom instructional technology Deployment of district-wide all digital radio communications system Cousino HS radio station upgrades 	



2021 Work – Final Phase of Bond Work



- **Buildings/Projects**
- **Administration Building**
- **Sterling Heights High School Entry Landscaping**
- **Print Shop Move Project**
- Final Furniture, Fixtures and Equipment
- **Network Infrastructure Upgrades**



2021 Work | Preliminary Bond Schedule



Schedule for Administration Building Project

Prepare Construction Documents Aug 2020 – Feb 2021

Bid Phase March 2021

Board Review & Award April 2021

Clark Construction – Contract Amendment April 2021

Material Expediting Apr – June 2021

Abatement Apr – May 2021

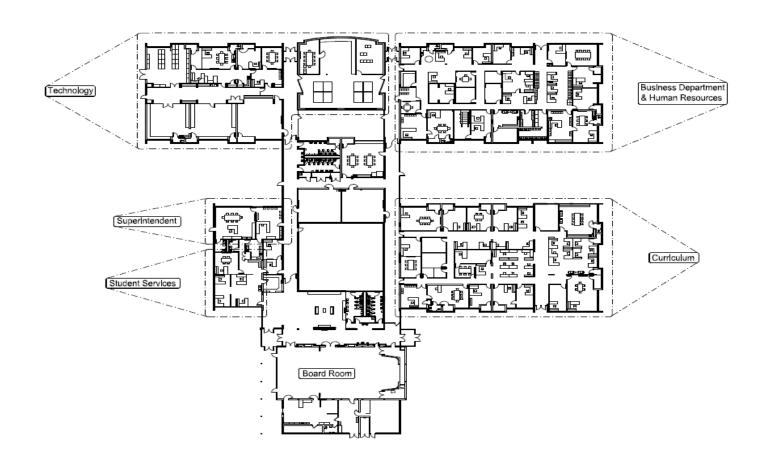
Construction Jun – Oct 2021

Punch List / Closeout November 2021



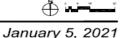
2021 Work - Administration Building – Layout





Administration Building Renovations

Warren Consolidated Schools







2021 Work | Administration Building & Final Projects

Item	Description of Work to Be Perform	ed
Sitework	Site storm water drainageParking Lot Improvements	
Building Exterior	Replace service doors and hardwareUpgrade exterior door hardwareReplace window systems	Repair masonry
Building Interior	 Replace doors and hardware Replace sinks, toilets, urinals, flooring, and faucets in the restrooms Update building signage 	 Upgrade window treatments Replace flooring with luxury vinyl tile Upgrade Administration interiors
Plumbing & HVAC Systems	 Replace drinking fountains and add water bottle filling station 	Replace hot water heaterReplace existing HVAC systems
Electrical Systems	 Install power outlets and raceways for technology Upgrade existing fire alarm system operating software 	 Upgrade lighting, interior emergency egress, and exit lighting
Technology	Public address system upgradesHead-end room upgradesWireless network upgrades	Audio/Visual upgradesStructured cabling upgradesSecurity upgrades (Cameras and card access)
Sterling Heights High School Landscaping	 Remove/replace dead/overgrown bushes Remove/replace the old landscape timbers 	



2021 Work | Preliminary Bond Schedule



Schedule for Administration Temporary Move

OCI Staff Move to Fillmore October 2020

Administration Staff move to Angus December 2020

Construction on Administration May 2021 – Oct 2021

Building

Punchlist Administration Building November 2021

OCI/Administration Staff Move to

December 2021 **Administration Building**

Administration Building fully January 3, 2022

operational



Financial Summary



Total Sources Available (including bond issuance, interest, rebates)	138,550,835
Spend - through November 30, 2020	124,223,958
Spend - to complete 2020 work	7,608,983
Spend - 2021 work (estimate) ^	6,717,894
	138,550,835

^Any costs to complete bond projects above final available funds will be funded through the Capital Projects Fund.



Questions and Discussions