

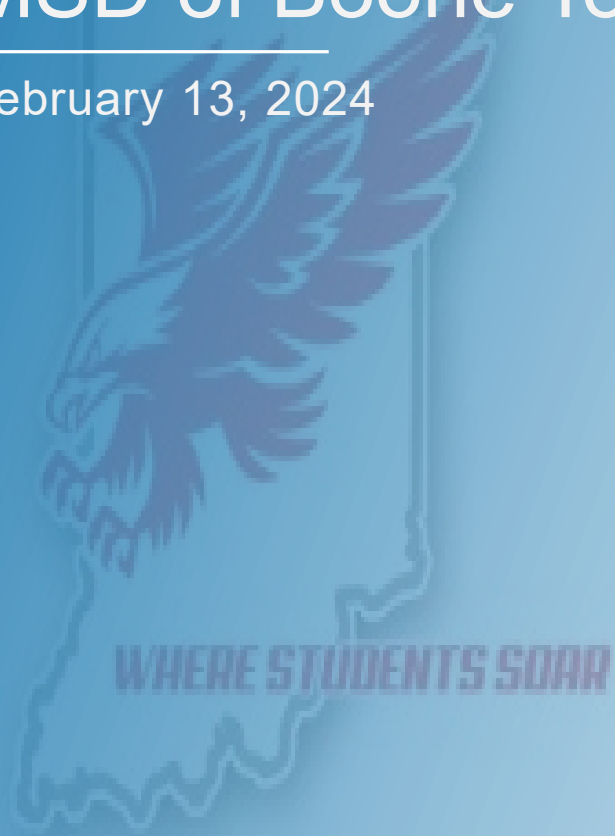


MSD of Boone Township – Phase 2

February 13, 2024

HEBRON SCHOOLS

MSD of Boone Township



Veregy Project Team Member Introductions:

- Arash Habibi-Soureh, Account Executive
- Thomas Mooneyham, Account Executive
- Gil Bucio, Senior Project Engineer
- Bob Smith, Director of Sales, Midwest



MSD of Boone Township – Phase 1 Recap and Phase 2 Objectives

Phase 1

- Repair of roof section 14 at MSD Boone ES/MS building with Tremco Alpha Guard solution
- Installation of 4 roof drains to eliminate ponding issues
- Installation of 196.9kW roof mounted Solar Array with 21% offset

Phase 2 Objectives

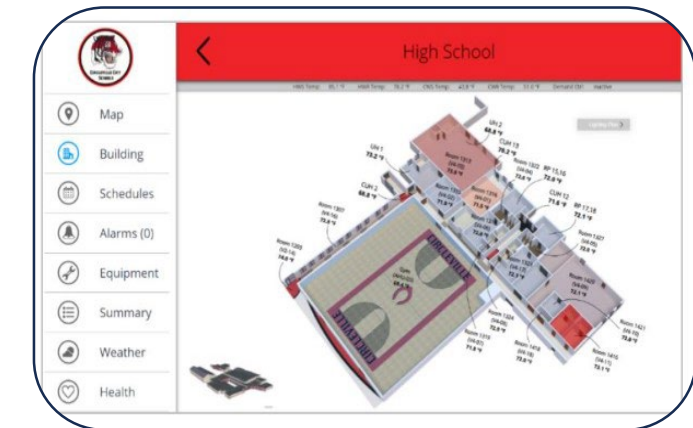
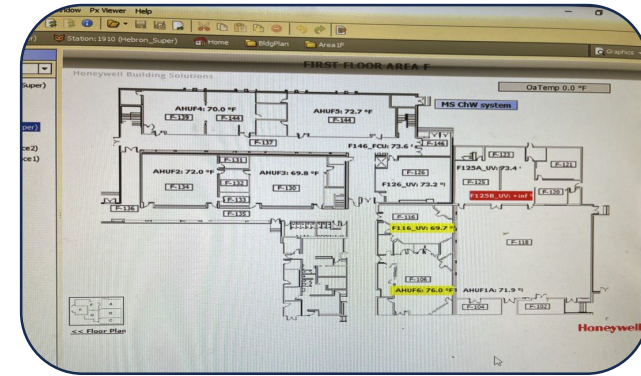
- Replacement of all ballasted roof sections at EM/MS
- Installation of roof mounted solar array with 50% offset goal
- Installation of solar bus port and ground mounted solar array to offset HS consumption
- Installation of a higher efficiency HVAC system with cooling
- Address outdated BAS with new open-protocol system
- Design of new fieldhouse at HS to operate as additional gym space and community center



MSD of Boone Township – Phase 2

Scope of Work

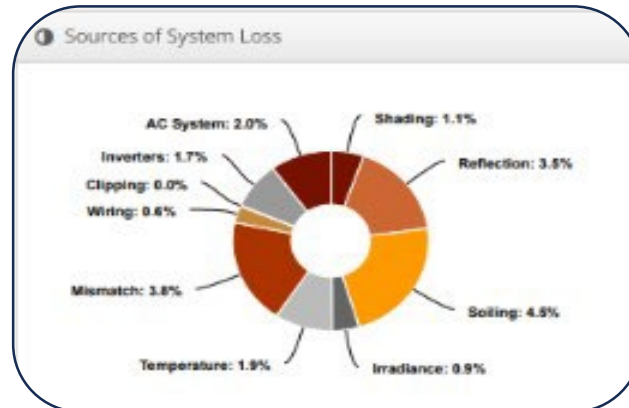
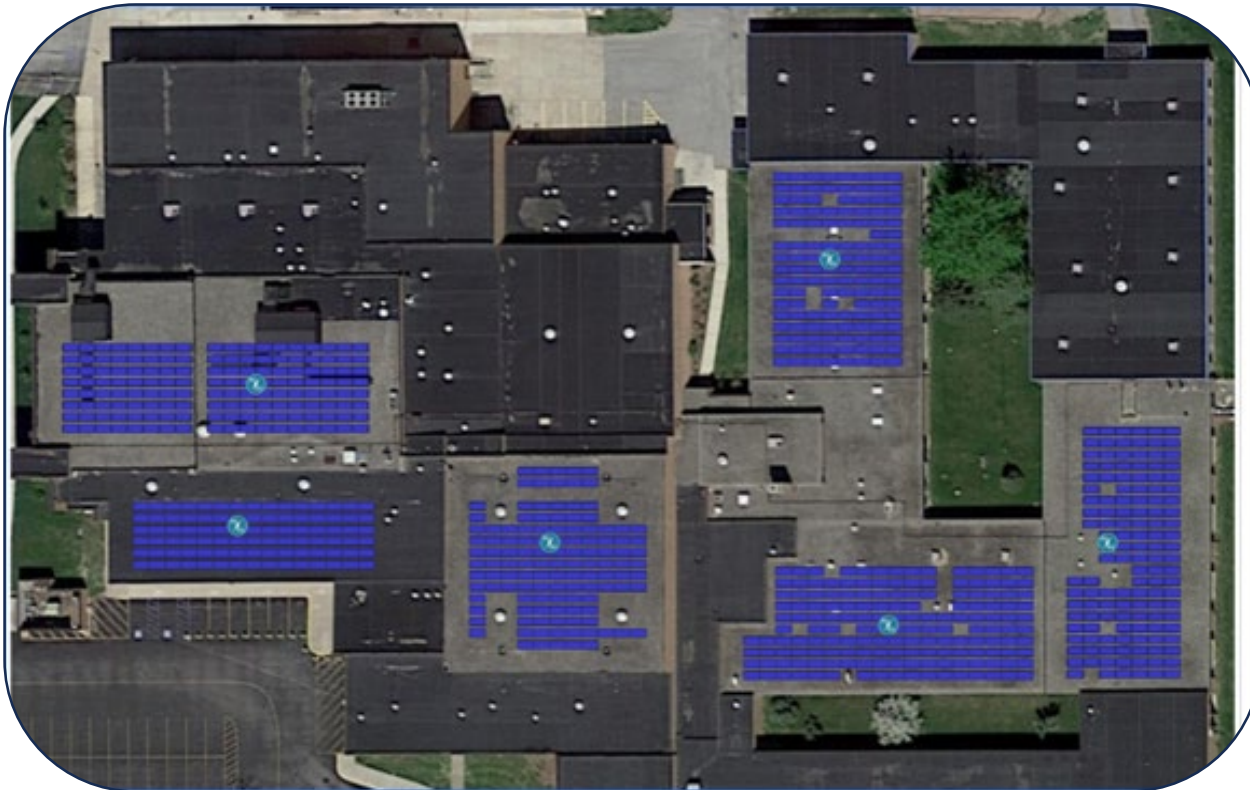
- 1A: Install new Open-Protocol BAS at High School and Middle/Elementary Schools
- 1B: Allowance for replacement of failed and faulty Devices during Commissioning
- 2A: Roof Replacement of Ballasted Roofing Systems, and Roof 5, at Middle/Elementary Schools
- 2B: Remove and cap the 2 (two) penthouses above the Middle School gym
- 3A: Replace Elementary & Middle School Gym Air Handler Units with Cooling Added
- 3B: Replace Music and Band Room Air Handler Unit
- 3C: Replace Chiller with Split Evaporator and Pump
- 4: Install Gas Fired Backup Generator to serve HS Kitchen Freezer, Kitchen Refrigerator, and Boiler Hot Water Pumps
- 5A: Install Roof Mounted Solar System on new roof sections at Middle/Elementary School
- 5B: Install Solar Bus Port, Repair Bus Parking Lot Entry Gate, Seal/Stripe parking lot, and Under-Canopy Lighting
- 5C: Install Ground Mounted Solar System with Fencing and Gravel Maintenance Road
- 6: Provide Design Services for new fieldhouse at the High School
- MISC Scopes: Asbestos Abatement and Testing at Penthouses and Mechanical Piping, ES Gym Ceiling Work, Parking Lot Lights Control



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5A Install Roof Mounted Solar System on new roof sections at Middle/Elementary School

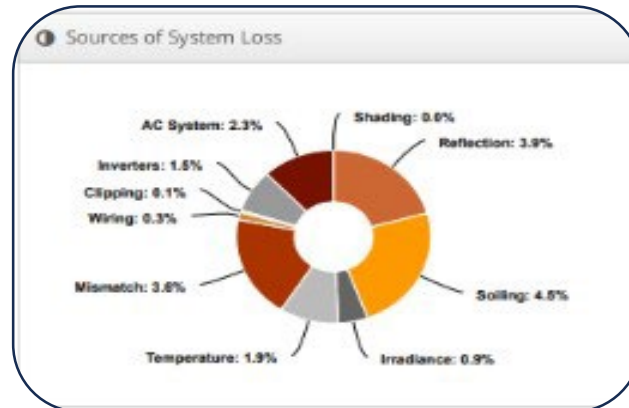
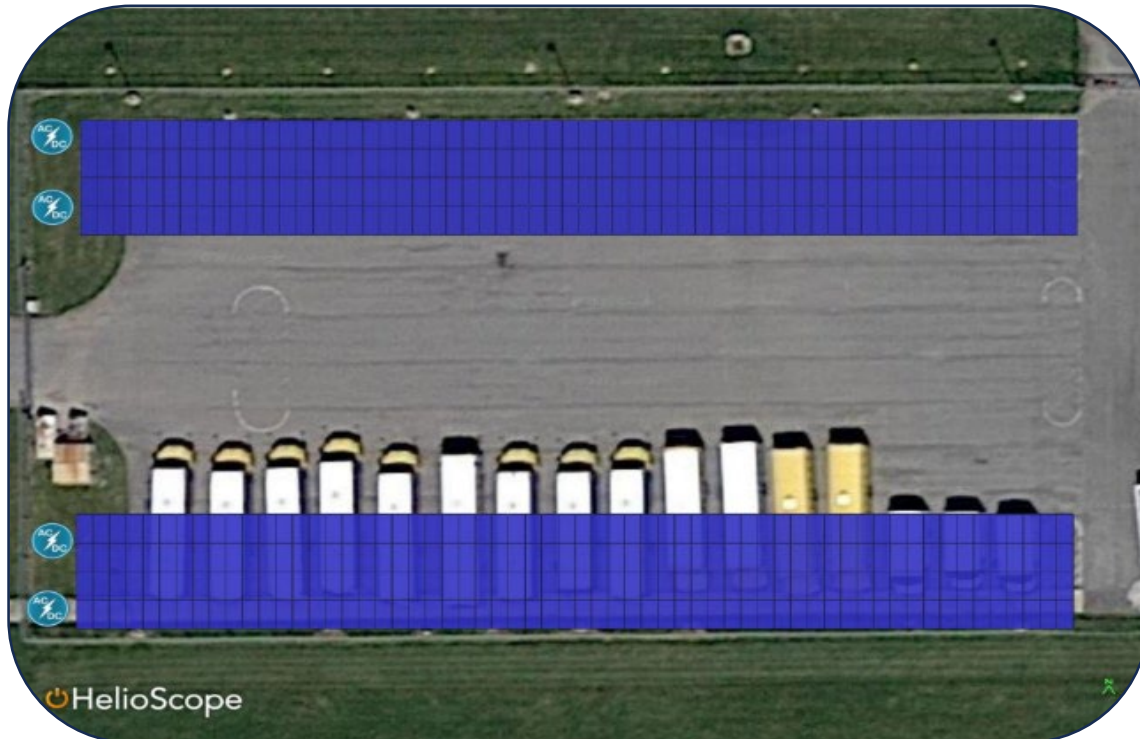
- Installation of 422.4 kW solar PV system
- Array will include all necessary inverters, wiring, roof mounting, and installation
- LightLevel monitoring and display screen for student engagement
- Modules will be installed in a neat and orderly fashion leaving room for maintenance and foot traffic
- **44% offset of baseline ES/MS energy usage**



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5B Install Solar Bus Port, Repair Bus Parking Lot Entry Gate, Seal/Stripe parking lot, and Under-Canopy Lighting

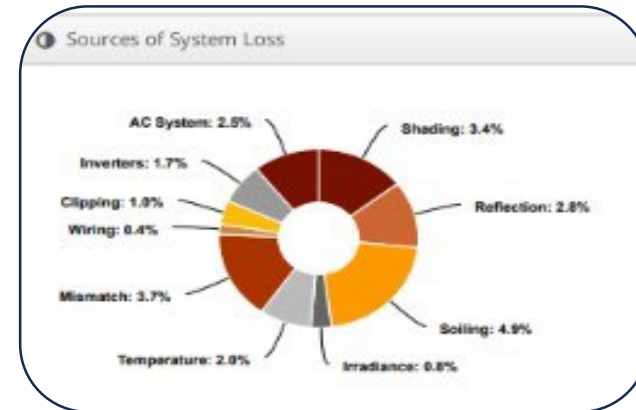
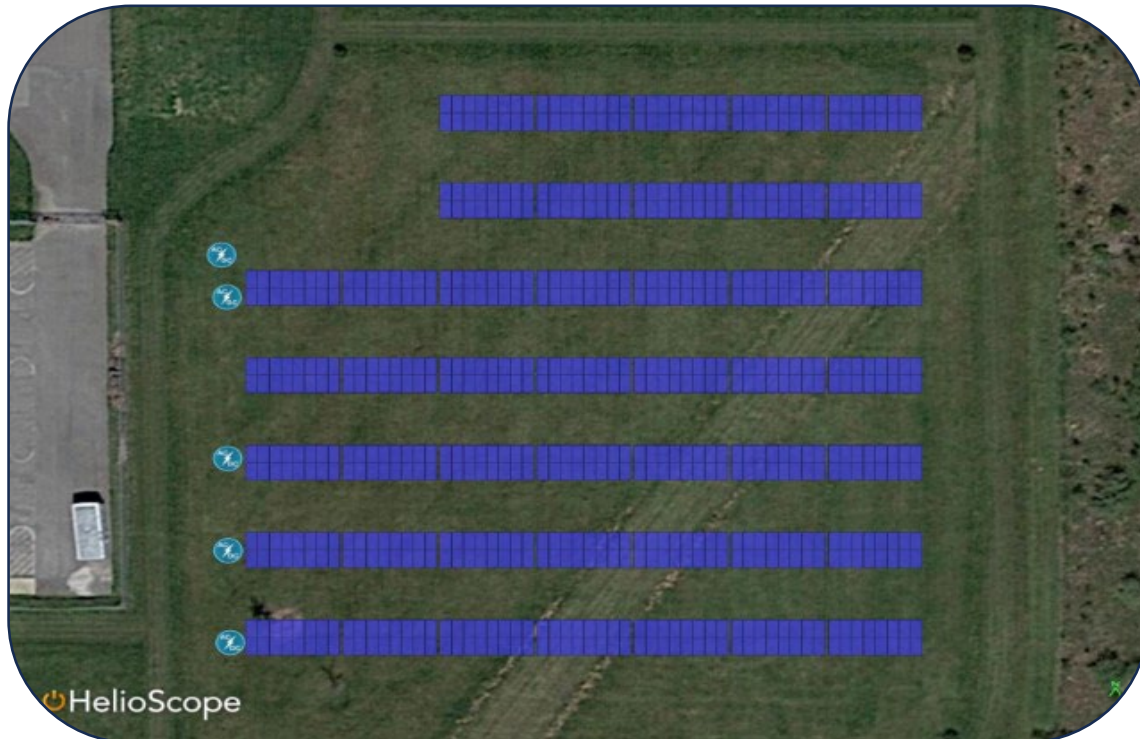
- Installation of 264 kW solar array on cantilevered bus port with room for buses and staff vehicles
- Array will include all necessary inverters, wiring, mounting, and installation
- Parking lot will be resealed and striped for new parking design
- The gate on the Northeast of the parking lot will be repaired for new traffic flow
- **21% offset of baseline HS energy usage**



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5C Install Ground Mounted Solar System with Fencing and Gravel Maintenance Road

- Installation of 396 kW ground mounted solar array
- Array will include all necessary inverters, wiring, ground mounting, and installation
- Includes fencing and service access road
- **34.5% offset of baseline HS energy usage**



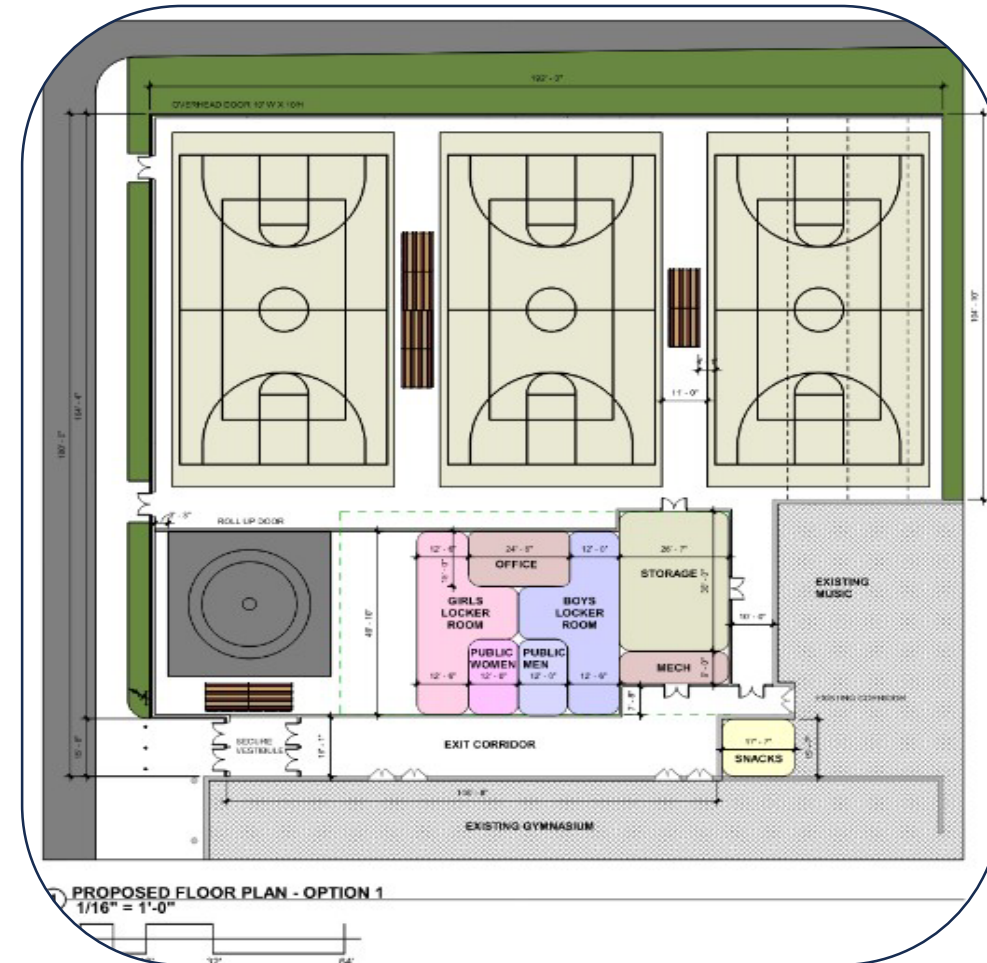
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FIM 1 – Provide Design Services For New Fieldhouse at the High School

New Fieldhouse Design Will Include:

- Three (3) Basketball Courts
- Dedicated Male and Female Locker Rooms
- Dedicated Men’s Restroom and Female Restroom
- Dedicated Wrestling Area
- Dedicated Office Area
- Ceiling Hung Batting Cages (to be lowered for use)
- Concessions Area
- Mechanical Room
- Storage Space
- Architectural/Engineering Plans & Specs will be bid-ready



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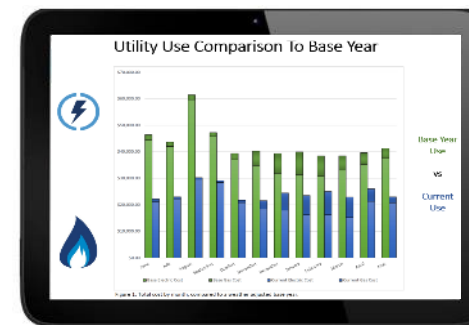
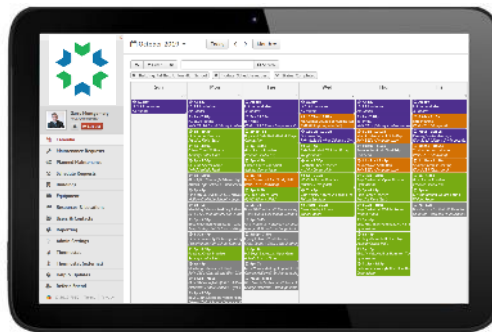
Miscellaneous Scopes:

- **Asbestos Abatement and Testing at MS Hot-Water Piping & Boiler Room**
- **ES Gym Ceiling Work**
- **Parking Lot Lights Control**
- **Repair of (2) Bathroom Ceilings at ES under Skylights**



Orchestrate/Digital Services for Facilities

Managed Service Offerings			
Scope	Bronze	Silver	Gold
Unlimited remote support	X	X	X
Unlimited automated support	X	X	X
Cloud based system backup and retention	X	X	X
Disaster recovery provisions	X	X	X
User interface service and management	X	X	X
BAS security and stability patches	X	X	X
BAS monitoring and regular maintenance		X	X
Fault detection and diagnostics		X	X
Monthly energy reporting		X	X
Unlimited on-site support			X
Replacement of degraded BAS hardware and supporting infrastructure			X
Service Level Agreement (SLA)			X
		X	



Presentation from 10-06-2023 Meeting

Project Budget Range (Including Solar Bus Canopy)	\$13,900,000 - \$16,250,000
IRA Rebate (34% Including Solar Bus Canopy)	\$1,955,000



Final Project Cost	\$12,892,455
IRA Rebate (34%)	\$1,654,869

- **Original Budget Did Not Include:**
- Additional asbestos work at MS
- Parking lot lighting controls
- Music room AHU (only Band room AHU originally included)
- Roof 5 roofing and solar
- Control device allowance
- Repair of (2) Bathroom Ceilings at ES under Skylights