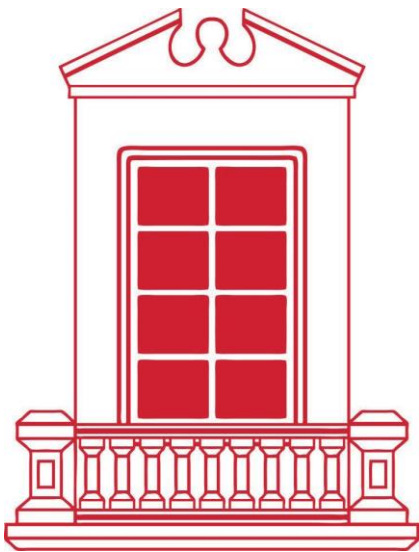


GMP- Elementary School and Field House

Brecksville-Broadview Heights CSD and
The City of Brecksville

October 29, 2019



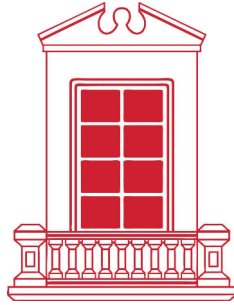
PREPARED FOR:

Joelle Magyar
Superintendent
6638 Mill Road
Brecksville, OH 44131

Jerry Hruby
Mayor
9069 Brecksville Road
Brecksville, OH 44141

PREPARED BY:

Shook Construction
6860 W. Snowville Road,
Suite 100
Brecksville, OH 44141



Brecksville-Broadview Heights CSD Elementary School and Field House

Exhibit A	Basis Documents
Exhibit B	Assumptions and Clarifications
Exhibit C	Estimate
Exhibit D	Project Schedule
Exhibit E	Construction Progress Schedule
Exhibit F	Staffing Plan/ General Conditions
Exhibit G	Subcontractor Work Scopes
Exhibit H	CM Self-Performed Work
Exhibit I	Schedule of Allowances
Exhibit J	Schedule of Unit Prices
Exhibit K	Schedule of Alternates
Exhibit L	Schedule of Incentives

GMP EXHIBIT A - BASIS DOCUMENTS



Brecksville-Broadview Heights New Elementary School and Field House

Issues for: Bid and Permit Set

A/E Project Number: 18062

Shook Project Number: 118060

Supplemental Documents Dated 9/19/19:

- 18062 Brecksville Broadview Heights Narrative_ Supplemental Info GMP
- 2018-1054_PS001 (GMP Prose Statement)
- 2019-09-19 GMP Civil Narrative
- GMP Geotechnical Report
- GMP LANDSCAPE NARRATIVE
- GMP Playground Layout PG1
- CR100 – Code Review (dated 04/19/19)

<u>Drawing</u>	<u>Description</u>	<u>Date</u>
CS1	Cover Sheet- Volume 1 of 2	9/19/19
DL1	Drawing List- Volume 1 of 2	9/19/19
C100	Demolition Plan	9/19/19
C101	Site Plan	9/19/19
C102	Pavement Plan	9/19/19
C103	Signage & Striping Plan	9/19/19
C104	Utility Plan	9/19/19
C105	Drainage Plan	9/19/19
C106	Grading Plan	9/19/19
C107	Driveway Plan A	9/19/19
C108	Driveway Plan B	9/19/19
C200	SWP3-1	9/19/19
C201	SWP3-2	9/19/19
C202	SWP3-3	9/19/19
C203	SWP3-4	9/19/19
C204	SWP3-5	9/19/19
C300	General Notes	9/19/19
C301	Details	9/19/19
C302	Details	9/19/19
C303	Details	9/19/19
C304	Details	9/19/19
C305	Details	9/19/19
C306	Details	9/19/19
T1	Traffic Improvements	9/19/19
L100	Landscape Plan	9/19/19
L101	Landscape Drive Plans	9/19/19
L102	Landscape Enlargements	9/19/19
L200	Planting Details and Specifications	9/19/19
S001	General Notes	9/19/19
S002	General Notes	9/19/19
S003	General Notes	9/19/19
S004	Schedules	9/19/19
S101.1	Foundation Plan- Area 1	9/19/19
S101.2	Foundation Plan- Area 2	9/19/19
S101.3	Foundation Plan- Area 3	9/19/19
S101.4	Foundation Plan- Area 4	9/19/19
S101.5	Foundation Plan- Area 5	9/19/19
S101.6	Foundation Plan- Area 6	9/19/19
S102.1	Second Floor & Low Roof Framing Plan- Area 1	9/19/19
S102.2	Second Floor Framing Plan- Area 2	9/19/19
S102.3	Second Floor Framing Plan- Area 3	9/19/19

<u>Drawing</u>	<u>Description</u>	<u>Date</u>
S102.4	Roof Framing Plan- Area 4	9/19/19
S103.1	Roof Framing Plan- Area 1	9/19/19
S103.2	Roof Framing Plan- Area 2	9/19/19
S103.3	Roof Framing Plan- Area 3	9/19/19
S200	Typical Foundation Details	9/19/19
S201	Foundation Sections	9/19/19
S202	Foundation Sections & Details	9/19/19
S300	Typical Framing Sections and Details	9/19/19
S301	Typical Framing Details	9/19/19
S302	Framing Sections	9/19/19
S303	Framing Sections	9/19/19
S400	Typical Roof Framing Details	9/19/19
S401	Typical Roof Framing Details	9/19/19
S402	Roof Framing Sections	9/19/19
S403	Roof Framing Sections	9/19/19
S404	Roof Framing Sections	9/19/19
S500	Firewall Details	9/19/19
A000	Notes and Legends	9/19/19
A001	Wall Types and Details	9/19/19
A002	Wall Types and Details	9/19/19
A010	Site Improvements	9/19/19
A100.1	First Floor Overall Plans	9/19/19
A100.2	Second Floor Overall Plans	9/19/19
A101.1	First Floor Plan- Area 1	9/19/19
A101.2	First Floor Plan- Area 2	9/19/19
A101.3	First Floor Plan- Area 3	9/19/19
A101.4	First Floor Plan- Area 4	9/19/19
A101.5	First Floor Plan- Area 5	9/19/19
A101.6	First Floor Plan- Area 6	9/19/19
A102.1	Second Floor Plan- Area 1	9/19/19
A102.2	Second Floor Plan- Area 2	9/19/19
A102.3	Second Floor Plan- Area 3	9/19/19
A121.1	First Floor Interior Plan- Area 1	9/19/19
A121.2	First Floor Interior Plan- Area 2	9/19/19
A121.3	First Floor Interior Plan- Area 3	9/19/19
A121.4	First Floor Interior Plan- Area 4	9/19/19
A121.5	First Floor Interior Plan- Area 5	9/19/19
A121.6	First Floor Interior Plan- Area 6	9/19/19
A122.1	Second Floor Interior Plan- Area 1	9/19/19
A122.2	Second Floor Interior Plan- Area 2	9/19/19
A122.3	Second Floor Interior Plan- Area 3	9/19/19
A150	Roof Plan	9/19/19
A200	Overall RCP's	9/19/19
A201.1	First Floor RCP- Area 1	9/19/19
A201.2	First Floor RCP- Area 2	9/19/19
A201.3	First Floor RCP- Area 3	9/19/19
A201.4	First Floor RCP- Area 4	9/19/19
A201.5	First Floor RCP- Area 5	9/19/19
A201.6	First Floor RCP- Area 6	9/19/19
A202.1	Second Floor RCP- Area 1	9/19/19
A202.2	Second Floor RCP- Area 2	9/19/19
A202.3	Second Floor RCP- Area 3	9/19/19
A203	Soffit Details	9/19/19
A300	Enlarged Plans, Elevations & Details- Restrooms	9/19/19
A301	Enlarged Plans, Elevations & Details- Restrooms	9/19/19
A302	Enlarged Plans & Elevations- Restrooms	9/19/19
A302.2	Second Floor Enlarged Plans & Elevations- Restrooms	9/19/19
A303	Enlarged Plans & Elevations – PreK	9/19/19

<u>Drawing</u>	<u>Description</u>	<u>Date</u>
A304	Enlarged Plans & Elevations - PreK	9/19/19
A305	Enlarged Plans & Elevations - Fourth Grade	9/19/19
A306	Enlarged Plans & Elevations - Fourth Grade	9/19/19
A307	Enlarged Plans & Elevations - Fourth Grade	9/19/19
A308	Enlarged Plans & Elevations – Kindergarten	9/19/19
A309	Enlarged Plans & Elevations – Kindergarten	9/19/19
A310	Enlarged Plans & Elevations - Media Center & Maker	9/19/19
A311	Enlarged Plans & Elevations - Media Center & Arts	9/19/19
A312	Enlarged Plans & Elevations - Media Center & Arts	9/19/19
A313	Enlarged Plans & Elevations - Second Grade	9/19/19
A314	Enlarged Plans & Elevations - Second Grade	9/19/19
A315	Enlarged Plans & Elevations - Administrative Areas	9/19/19
A316	Enlarged Plans & Elevations - Administrative Areas	9/19/19
A317	Enlarged Plans & Elevations - Administrative Areas	9/19/19
A318	Enlarged Plans & Elevations - Administrative Areas	9/19/19
A319	Enlarged Plans & Elevations - Administrative Areas	9/19/19
A320	Interior Elevations- Student Dining & Performance	9/19/19
A321	Enlarged Plans & Elevations- Music	9/19/19
A323	Enlarged Plans & Elevations- Field House	9/19/19
A324	Enlarged Plans & Elevations- Field House	9/19/19
A325	Enlarged Plans & Elevations- Field House	9/19/19
A326	Enlarged Plans & Elevations- Field House	9/19/19
A327	Enlarged Plans & Elevations- Fifth Grade	9/19/19
A328	Enlarged Plans & Elevations- Fifth Grade	9/19/19
A329	Enlarged Plans & Elevations- First Grade	9/19/19
A330	Enlarged Plans & Elevations- Third Grade	9/19/19
A331	Enlarged Plans & Elevations- Third Grade	9/19/19
A332	Enlarged Plans & Elevations- Equipment Details	9/19/19
A350	Enlarged Plans- Field House	9/19/19
A400	Overall Elevations	9/19/19
A401	Overall Elevations	9/19/19
A402	Enlarged Elevations & Details	9/19/19
A420	Overall Building Sections	9/19/19
A421	Overall Building Sections	9/19/19
A422	Overall Building Sections	9/19/19
A423	Overall Building Sections	9/19/19
A500	Exterior Wall Types	9/19/19
A510	Wall Sections	9/19/19
A511	Wall Sections	9/19/19
A512	Wall Sections	9/19/19
A513	Wall Sections	9/19/19
A514	Wall Sections	9/19/19
A515	Wall Sections	9/19/19
A516	Wall Sections	9/19/19
A517	Wall Sections	9/19/19
A518	Wall Sections	9/19/19
A519	Wall Sections	9/19/19
A550	Wall Section Details	9/19/19
A551	Wall Section Details	9/19/19
A552	Wall Section Details	9/19/19
A553	Wall Section Details	9/19/19
A554	Wall Section Details	9/19/19
A600.1	Ladder, Stair, Guard, and Handrail Details	9/19/19
A600.2	Elevator Details	9/19/19
A601	Stair and Elevator Plans/Sections/Details	9/19/19
A602	Stair and Elevator Plans/Sections/Details	9/19/19
A603	Stair and Elevator Plans/Sections/Details	9/19/19
A604	Stair and Elevator Plans/Sections/Details	9/19/19

<u>Drawing</u>	<u>Description</u>	<u>Date</u>
A605	Stair and Elevator Plans/Sections/Details	9/19/19
A606	Stair and Elevator Plans/Sections/Details	9/19/19
A607	Stair and Elevator Plans/Sections/Details	9/19/19
A700	Plan Details	9/19/19
A800	Casework Sections	9/19/19
A801	Casework Sections	9/19/19
A802	Locker Sections	9/19/19
A803	Millwork Sections	9/19/19
A804	Millwork Sections	9/19/19
A900	Door Schedule	9/19/19
A901	Door and Frame Types	9/19/19
A902	Door Details	9/19/19
A903	Door Details	9/19/19
A904	Door Details	9/19/19
A910	Window Types	9/19/19
A911	Window Types	9/19/19
A913	Window Details	9/19/19
A921.1	First Floor Finish Plan- Area 1	9/19/19
A921.2	First Floor Finish Plan- Area 2	9/19/19
A921.3	First Floor Finish Plan- Area 3	9/19/19
A921.4	First Floor Finish Plan- Area 4	9/19/19
A921.5	First Floor Finish Plan- Area 5	9/19/19
A921.6	First Floor Finish Plan- Area 6	9/19/19
A922.1	Second Floor Finish Plan- Area 1	9/19/19
A922.2	Second Floor Finish Plan- Area 2	9/19/19
A922.3	Second Floor Finish Plan- Area 3	9/19/19
A923	Finish Schedule and Details	9/19/19
A930.1	Signage Legend	9/19/19
A930.2	Signage Details	9/19/19
A941	Gymnasium Floor Striping Plan	9/19/19
CS2	Cover Sheet- Volume 2 of 2	9/19/19
DL2	Drawing List- Volume 2 of 2	9/19/19
FSE1	Food Service Equipment Floor Plan	9/19/19
FSE2	Food Service Equipment Schedule	9/19/19
FSE3	Food Service Electrical Floor Plan	9/19/19
FSE4	Food Service Electrical Schedule	9/19/19
FSE5	Food Service Plumbing Floor Plan	9/19/19
FSE6	Food Service Plumbing Schedule	9/19/19
FSE7	Food Service Refrigeration Floor Plan	9/19/19
FSE8	Food Service Ventilation Floor Plan	9/19/19
FSE9	Food Service Equipment Elevations	9/19/19
M001	Mechanical General Notes and Legend	9/19/19
M111	First Floor HVAC Plan- Area 1	9/19/19
M112	First Floor HVAC Plan- Areas 2 and 3	9/19/19
M113	First Floor HVAC Plan- Area 4	9/19/19
M114	First Floor HVAC Plan- Area 5 and 6	9/19/19
M121	Second Floor HVAC Ductwork Plan- Area 1	9/19/19
M122	Second Floor HVAC Ductwork Plan- Areas 2 and 3	9/19/19
M131	Roof HVAC Plan	9/19/19
M211	First Floor HVAC Piping Plan- Area 1	9/19/19
M212	First Floor HVAC Piping Plan- Areas 2 and 3	9/19/19
M213	First Floor HVAC Piping Plan- Area 4	9/19/19
M214	First Floor HVAC Piping Plan- Areas 5 and 6	9/19/19
M221	Second Floor HVAC Piping Plan- Area 1	9/19/19
M222	Second Floor HVAC Piping Plan- Areas 2 and 3	9/19/19
M301	HVAC Schedules	9/19/19
M401	HVAC Details	9/19/19
M402	HVAC Details	9/19/19

<u>Drawing</u>	<u>Description</u>	<u>Date</u>
M500	Control Legend and Diagrams	9/19/19
M501	Heating Plant Control Diagram	9/19/19
M502	Rooftop Unit Control Diagrams	9/19/19
M503	Miscellaneous Control Diagrams	9/19/19
M504	Miscellaneous Control Diagrams	9/19/19
P111	First Floor Plumbing Plan- Area 1	9/19/19
P112	First Floor Plumbing Plan- Areas 2 and 3	9/19/19
P113	First Floor Plumbing Plan- Area 4	9/19/19
P114	First Floor Plumbing Plan- Areas 5 and 6	9/19/19
P121	Second Floor Plumbing Plan- Area 1	9/19/19
P122	Second Floor Plumbing Plan- Area 2 and 3	9/19/19
P131	Roof Plumbing Plan	9/19/19
P201	Enlarged Kitchen Plumbing Plan	9/19/19
P301	Plumbing Schedules	9/19/19
P401	Plumbing Details	9/19/19
P501	Sanitary Isometric Diagrams- Area 1	9/19/19
P502	Sanitary Isometric Diagrams- Area 2	9/19/19
P503	Sanitary Isometric Diagrams- Area 3	9/19/19
P504	Sanitary Isometric Diagrams- Areas 4, 5, and 6	9/19/19
P505	Domestic Isometric Diagrams- Area 1	9/19/19
P506	Domestic Isometric Diagrams- Area 2	9/19/19
P507	Domestic Isometric Diagrams- Area 3	9/19/19
P508	Domestic Isometric Diagrams- Areas 4, 5, and 6	9/19/19
P509	Storm Drainage Isometric Diagram	9/19/19
P510	Gas Isometric Diagram	9/19/19
FP111	Fire Protection Plans, Schedules, Notes, and Details	9/19/19
E001	Electrical Site Plan	9/19/19
E111	First Floor Lighting Plan- Area 1	9/19/19
E112	First Floor Lighting Plan- Area 2	9/19/19
E113	First Floor Lighting Plan- Area 3	9/19/19
E114	First Floor Lighting Plan- Area 4	9/19/19
E115	First Floor Lighting Plan- Areas 5 and 6	9/19/19
E121	Second Floor Lighting Plan- Area 1	9/19/19
E122	Second Floor Lighting Plan- Area 2	9/19/19
E123	Second Floor Lighting Plan- Area 3	9/19/19
E211	First Floor Power Plan- Area 1	9/19/19
E212	First Floor Power Plan- Area 2	9/19/19
E213	First Floor Power Plan- Area 3	9/19/19
E214	First Floor Power Plan- Area 4	9/19/19
E215	First Floor Power Plan- Areas 5 and 6	9/19/19
E221	Second Floor Power Plan- Area 1	9/19/19
E222	Second Floor Power Plan- Area 2	9/19/19
E223	Second Floor Power Plan- Area 3	9/19/19
E311	First Floor Mechanical Power Plan- Area 1	9/19/19
E312	First Floor Mechanical Power Plan- Area 2	9/19/19
E313	First Floor Mechanical Power Plan- Area 3	9/19/19
E314	First Floor Mechanical Power Plan- Area 4	9/19/19
E315	First Floor Mechanical Power Plan- Areas 5 and 6	9/19/19
E321	Second Floor Mechanical Power Plan- Area 1	9/19/19
E322	Second Floor Mechanical Power Plan- Area 2	9/19/19
E323	Second Floor Mechanical Power Plan- Area 3	9/19/19
E324	Roof Power Plan	9/19/19
E411	First Floor Fire Alarm Plan- Area 1	9/19/19
E412	First Floor Fire Alarm Plan- Area 2	9/19/19
E413	First Floor Fire Alarm Plan- Area 3	9/19/19
E414	First Floor Fire Alarm Plan- Area 4	9/19/19
E415	First Floor Fire Alarm Plan- Areas 5 and 6	9/19/19
E421	Second Floor Fire Alarm Plan- Area 1	9/19/19

<u>Drawing</u>	<u>Description</u>	<u>Date</u>
E422	Second Floor Fire Alarm Plan- Area 2	9/19/19
E423	Second Floor Fire Alarm Plan- Area 3	9/19/19
E501	Electrical Symbol Legend and Details	9/19/19
E502	Lighting Fixture Schedule & Details	9/19/19
E503	Lighting Details	9/19/19
E504	Fire Alarm Details	9/19/19
E505	Elevator Enlarged Plan, Details, and Notes	9/19/19
E506	Enlarged Kitchen Power Plan	9/19/19
E507	Kitchen Details	9/19/19
E601	Electrical Panelboard Schedules	9/19/19
E602	Electrical Panelboard Schedules	9/19/19
E603	Electrical Panelboard Schedules	9/19/19
E604	Electrical Panelboard Schedules	9/19/19
E701	Electrical On-Line Diagram	9/19/19
EP001	Electrical Site Photometric & Utility Plan	9/19/19
T001	Technology Site Plan	9/19/19
T002	Security Camera Site Plan	9/19/19
T003	Technology Overall Plans	9/19/19
T111	First Floor Technology Plan- Area 1	9/19/19
T112	First Floor Technology Plan- Area 2	9/19/19
T113	First Floor Technology Plan- Area 3	9/19/19
T114	First Floor Technology Plan- Area 4	9/19/19
T115	First Floor Technology Plan- Areas 5 and 6	9/19/19
T121	Second Floor Technology Plan- Area 1	9/19/19
T122	Second Floor Technology Plan- Areas 2 and 3	9/19/19
T200	Technology Enlarged Plan Views and Elevations	9/19/19
T201	Technology Enlarged Plan Views and Elevations	9/19/19
T300	Technology Details, Legends, and Schedules	9/19/19
T301	Central Sound System Details	9/19/19
T302	Security Systems Details	9/19/19
T303	Network Communications Riser Diagram	9/19/19
T304	Student Dining Audio-Visual & Sound System Details	9/19/19
T305	Gymnasium Sound System Details	9/19/19
T306	Music Room Sound System Details	9/19/19

<u>Specification Section</u>	<u>Description</u>	<u>Date</u>
033000	Cast-In-Place Concrete	9/19/19
042000	Unit Masonry	9/19/19
051200	Structural Steel Framing	9/19/19
052100	Steel Joist Framing	9/19/19
053100	Steel Decking	9/19/19
054000	Cold-Formed Metal Framing	9/19/19
054400	Cold-Formed Metal Trusses	9/19/19
055000	Metal Fabrications	9/19/19
055100	Metal Stairs Handrails & Guardrails	9/19/19
061000	Rough Carpentry	9/19/19
061600	Sheathing	9/19/19
062023	Interior Finish Carpentry	9/19/19
064023	Interior Architectural Woodwork	9/19/19
071113	Bituminous Dampproofing	9/19/19
072100	Thermal Insulation	9/19/19
072726	Air Barriers	9/19/19
073113	Asphalt Shingles	9/27/19
074116	Insulated Metal Roof Panels	9/19/19
074213.19	Insulated Metal Wall Panels	9/19/19
074600	Fiber Cement Board Siding	9/19/19
075423	TPO Roofing	9/27/19
076200	Sheet Metal Flashing and Trim	9/19/19
077129	Roof Expansion Joints	9/19/19
077200	Roof Accessories	9/19/19
077253	Snow Guards	9/19/19
078413	Penetration Firestopping	9/19/19
078446	Fire-Resistive Joint Systems	9/19/19
079200	Joint Sealants	9/19/19
079500	Expansion Control	9/19/19
081113	Hollow Metal Doors and Frames	9/19/19
081416	Flush Wood Doors	9/19/19
083113	Access Doors	9/19/19
083323	Overhead Coiling Doors	9/19/19
084113	Aluminum Framed Entrances and Storefronts	9/19/19
084126	All-Glass Entrances and Storefronts	9/19/19
084413	Glazed Aluminum Curtainwall System	9/19/19
085113	Aluminum Windows	9/19/19
087100	Door Hardware	9/19/19
088000	Glazing	9/19/19
092216	Non-Load Bearing Metal Framing	9/19/19
092900	Gypsum Board	9/19/19
093013	Ceramic Tiling	9/19/19
095113	Acoustical Panel Ceiling	9/19/19
096210	Fluid-Applied Sports Flooring	9/19/19
096513	Resilient Base and Accessories	9/19/19
096516	Resilient Sheet Flooring	9/19/19
096519	Resilient Tile Flooring	9/19/19
096566	Resilient Athletic Flooring	9/19/19
096723	Resinous Flooring	9/19/19
096766	Fluid-Applied Athletic Flooring	9/19/19
096813	Tile Carpeting	9/19/19
097200	Wall Coverings	9/19/19
097720	Decorative Fiberglass Reinforced Wall Panels	9/19/19
098433	Sound-Absorbing Wall Units	9/19/19
098436	Acoustical Sound Diffusing Units	9/19/19
098436	Sound-Absorbing Ceiling Units	9/19/19
099113	Exterior Painting	9/19/19
099123	Interior Painting	9/19/19

<u>Specification Section</u>	<u>Description</u>	<u>Date</u>
099300	Staining and Transparent Finishing	9/19/19
099600	High-Performance Coatings	9/19/19
101100	Visual Display Surfaces	9/19/19
101146	Visual Display Fabrics	9/19/19
101200	Display Cases	9/19/19
101419	Dimensional Letter Signage	9/19/19
101423	Panel Signage	9/19/19
102113.19	Plastic Toilet Compartments	9/19/19
102123	Cubicle Curtains and Track	9/19/19
102238	Operable Partitions	9/19/19
102600	Wall and Door Protection	9/19/19
102800	Toilet, Bath, and Laundry Accessories	9/19/19
104413	Fire Protection Cabinets	9/19/19
104416	Fire Extinguishers	9/19/19
105113	Metal Lockers	9/19/19
105123	Plastic Laminate Clad Lockers	9/19/19
105613	Metal Storage Shelving	9/19/19
107500	Flagpoles	9/19/19
112130	Slatwall Panel Systems	9/19/19
113100	Residential Appliances	9/19/19
114250	Art Ventilation Equipment & Art Kilns	9/19/19
114800	Scorekeeping System	9/19/19
115213	Projection Screens	9/19/19
116143	Stage Curtains and Equipment	9/19/19
116623	Gymnasium Equipment	9/19/19
116653	Gymnasium Dividers	9/19/19
116700	Educational Equipment	9/19/19
121230	Art Hanging and Display Systems	9/19/19
122413	Roller Window Shades	9/19/19
123216	Manufactured Plastic Laminate Faced Wood Casework	9/19/19
123623-13	Plastic Laminate Clad Countertops	9/19/19
123661.16	Solid Surfacing Countertops	9/19/19
126000	Custom Cushions For Built In Bench Seating	9/19/19
129300	Site Furnishings	9/19/19
133419	Metal Building Systems	9/19/19
140210	Traction Elevator	9/19/19
210500	Common Work Results for Fire Suppression	9/19/19
211313	Wet Pipe Sprinkler Systems	9/19/19
220500	Common Work Results for Plumbing	9/19/19
220513	Common Motor Requirements for Plumbing	9/19/19
220516	Expansion Fittings and Loops for Plumbing	9/19/19
220519	Meters and Gauges for Plumbing	9/19/19
220523	General Duty Valves for Plumbing	9/19/19
220529	Hangers and Supports for Plumbing	9/19/19
220553	Identification for Plumbing	9/19/19
220700	Plumbing Insulation	9/19/19
221116	Domestic Water Piping	9/19/19
221119	Domestic Water Piping Specialties	9/19/19
221123	Domestic Water Pumps	9/19/19
221123.13	Domestic-Water Packaged Booster Pumps	9/19/19
221316	Sanitary Waste and Vent Piping	9/19/19
221319	Sanitary Waste Piping Specialties	9/19/19
221323	Sanitary Waste Interceptors	9/19/19
221413	Facility Storm Drainage Piping	9/19/19
221423	Storm Drainage Piping Specialties	9/19/19
221429	Sump Pumps	9/19/19

<u>Specification Section</u>	<u>Description</u>	<u>Date</u>
221513	Facility Natural Gas Piping	9/19/19
223400	Fuel Fired Domestic Water Heaters	9/19/19
224000	Plumbing Fixtures	9/19/19
224700	Water Coolers	9/19/19
230500	Common Work Results for HVAC	9/19/19
230513	Common Motor Requirements for HVAC Equipment	9/19/19
230516	Expansion Fittings and Loops for HVAC Piping	9/19/19
230519	Meters and Gages for HVAC Piping	9/19/19
230523	General-Duty Valves for HVAC Piping	9/19/19
230529	Hangers and Supports for HVAC Piping and Equipment	9/19/19
230548	Vibration Controls for HVAC Piping and Equipment	9/19/19
230553	Identification for HVAC Piping and Equipment	9/19/19
230593	Testing, Adjusting and Balancing For HVAC	9/19/19
230700	HVAC Insulation	9/19/19
230800	Mechanical Systems Commissioning	9/19/19
230900	Instrumentation & Control for HVAC	9/19/19
232113	Hydronic Piping	9/19/19
232123	Hydronic Pumps	9/19/19
232300	Refrigerant Piping	9/19/19
232500	HVAC Water Treatment	9/19/19
233113	Metal Ducts	9/19/19
233116	Fabric Ducts	9/19/19
233300	Air Duct Accessories	9/19/19
233423	HVAC Power Ventilators	9/19/19
233600	Air Terminal Units	9/19/19
233713	Diffusers, Registers & Grilles	9/19/19
233715	Louvers	9/19/19
233723	HVAC Gravity Ventilators	9/19/19
235100	Breechings, Chimneys & Stacks	9/19/19
235216	Condensing Boilers	9/19/19
237410	Packaged Rooftop HVAC Units	9/19/19
238126	Split-System Air-Conditioners	9/19/19
238233	Hot Water Radiators	9/19/19
238239	Unit Heaters	9/19/19
260500	Basic Electrical Materials and Methods	9/19/19
260513	Conductors and Cables	9/19/19
260519	Medium Voltage Cables	9/19/19
260526	Grounding and Bonding	9/19/19
260533	Raceways and Boxes	9/19/19
260536	Cable Trays	9/19/19
260553	Electrical Identification	9/19/19
260573	Overcurrent Protective Device Coordination	9/19/19
260923	Lighting Control Devices	9/19/19
260924	Low-Voltage Lighting Control System	9/19/19
261219	Pad-Mounted, Liquid-Filled, Medium Voltage Transformers	9/19/19
261810	Medium-Voltage Overhead Distribution	9/19/19
262200	Dry-Type Transformers (600 V And Less)	9/19/19
262413	Switchboards	9/19/19
262416	Panelboards	9/19/19
262419	Motor Controllers	9/19/19
262713	Electricity Metering	9/19/19
262726	Wiring Devices	9/19/19
262813	Fuses	9/19/19
262816	Enclosed Switches	9/19/19
263213	Packaged Engine Generator	9/19/19
263600	Transfer Switches	9/19/19
264113	Lightning Protection for Structures	9/19/19
265100	Interior Lighting	9/19/19

<u>Specification Section</u>	<u>Description</u>	<u>Date</u>
265600	Exterior Lighting	9/19/19
270500	Common Work Results for Communications	9/19/19
271100	Communications Equipment Room Fittings	9/19/19
271300	Communications Backbone Cabling	9/19/19
271500	Communications Horizontal Cabling	9/19/19
272100	Data Communications Network Equipment	9/19/19
273123	VOIP Telephone System	9/19/19
274119	Integrated Audio-Visual Systems	9/19/19
275121	Student Dining Audio System	9/19/19
275122	Central Sound and Paging System	9/19/19
275124	Gymnasium Audio System	9/19/19
275125	Vocal & Instrumental Music Audio Recording & Playback System	9/19/19
275127	Classroom Sound Reinforcement System	9/19/19
275313	Clock Systems	9/19/19
275320	Distributed Antenna System	9/19/19
280500	Common Work Results for Electronic Safety & Security	9/19/19
280513	Conductors and Cables for Electronic Safety and Security	9/19/19
281300	Access Control System	9/19/19
281600	Intrusion Detection System	9/19/19
282300	IP Based Video Surveillance	9/19/19
283111	Fire Alarm and Detection System	9/19/19
311000	Site Clearing	9/19/19
312000	Earth Moving	9/19/19
312513	Erosion Controls	9/19/19
321216	Asphalt Paving	9/19/19
321313	Concrete Paving	9/19/19
321723	Pavement Markings	9/19/19
321816.23	Playground Protective Surfacing	9/19/19
323300	Site Furnishings	9/19/19
323113	Chain Link Fences and Gates	9/19/19
330510	Utilities Services	9/19/19
330513	Manholes and Structures	9/19/19
331116	Site Water Utility Distribution Piping	9/19/19
333100	Sanitary Utility Sewerage Piping	9/19/19
334100	Storm Utility Drainage Piping	9/19/19
335100	Natural Gas Distribution	9/19/19

GMP EXHIBIT B - ASSUMPTIONS AND CLARIFICATIONS



GMP EXHIBIT B | ASSUMPTIONS AND CLARIFICATIONS

General assumptions and clarification for Elementary School and Field House Project:

1. Hazardous material handling, removal, and disposal is to be performed by others, and is excluded from the GMP.
2. Builder's Risk Insurance is by owner.
3. Non construction costs, including, but not limited to, AE fees, independent 3rd party testing fees, and utilities to the demark point defined by documents are not included in this estimate.
4. Design and Owner contingencies are not part of the budget nor are they included in this estimate.
5. The GMP proposal is coordinated with and based on the project schedule included and is based on receiving an NTP prior to 12/31/19.
6. Building permit including all costs for fees and inspections shall be by owner.
7. Schedule assumes timely city review of drawings and issuance of permit for construction by 2/1/20.
8. No warranties included on existing systems or equipment, only on new work that is installed on this project.
9. Project is sales tax-exempt.
10. Land acquisition is not included.
11. No costs for wetland credits have been included in the estimate.
12. Any cost associated with negotiation or acquisition of any access easements or property purchases located with-in the project construction limits are not included.
13. Any consumption charges (i.e. electric, natural gas, and water) shall be paid for directly by Owner.
14. Utility tap fees are not included.
15. We assume that all drawings have been coordinated between all disciplines to ensure proper constructability.
16. It is our understanding that this project will not have commissioning and therefore, costs of the commissioning agent is excluded from the GMP, in addition to contractor coordination efforts required.
17. This is not a LEED project. Therefore, design and cost associated with LEED is not included.
18. The GMP is for a complete Contract Sum and not specific line items in the GMP. Savings in line items, or bid packages, can be used to offset overruns in other line items or bid packages.

Project specific assumptions and clarification for Elementary School and Field House Project:

1. No fiber-mesh is included in the concrete.
2. Vapor barrier membrane is included only on the top of the footing, not the top and side as shown on detail 13 on A-554.
3. Where wall types indicated on wall section don't match elevation sheets (A400, A401), material indicated on the elevation is included in the estimate. (Ex. 1/A511 shows wall type X2-brick and elev. A400 shows split face indicating X9. X9 estimated.)
4. TPO roofing is not fleece-backed as specified in the original GMP documents. Revised TPO roof specification received 9/27/19 was used as the basis of the estimate.
5. Downspout boots are PVC.
6. Drywall finishing is included at a level 4 finish throughout exposed surfaces.
7. Perlite insulation is excluded at exterior masonry walls.
8. Insulated metal wall panels at the Field House have been included as 3".
9. Exclude provisions for seismic struts and impact clips at acoustic panel ceilings is excluded.
10. Painting of exposed piping, conduit, ductwork, etc. in equipment rooms is excluded.
11. Delegated design is included for fire alarm, fire suppression, PEMB, exterior wall systems, curtain wall and storefront, and stair system. No other delegated design is included or anticipated for the project.
12. No integral blinds are included throughout the project.
13. Operable windows are estimated to be installed in storefront with a glass vent.
14. Manual roller blinds have been included at the exterior windows. No blinds are included on any of the hexagon units or on storefront and curtainwall throughout.
15. Stage curtain is limited to details shown on the architectural drawings.
16. Traction elevator pricing is based off of 100 fpm per RS 9/29/19 response in lieu of the 150 fpm specified.
17. No fire pump is expected or included in the estimate.
18. Estimate assumes that the local gas company will bring the service to the meter at the building and the plumbing contractor will assume responsibility from the meter inside the building.
19. Primary transformer is excluded from this estimate.
20. Rock excavation is not included. It is assumed none will be required nor has any been identified.
21. All work associated with the #3201 Valley Parkway house/shed removal, fence removal, and OH electric/pole removal is to be removed by others as part of a separate project along the Valley Parkway and is not included in this estimate.

22. A driveway on the east side of the site to Blossom is indicated on the site plans. This work (including grading, pavement, berms, storm, lighting, etc.) was eliminated from the project scope in the VE process at DD on 6-3-19 and is not included in the estimate. An alternate has been provided to add the scope to match the GMP documents.
23. Since the driveway on the east side of the site to Blossom is included only as an alternate, it follows that the extension of this road, described in the civil design intent narrative, is also included as an alternate. Said work is therefore not included in the base estimate.
24. The K-5 playground area in the estimate is calculated as 125' x 65' (1/2 of what is shown on GMP documents) for estimating purposed based on 10/1 correspondence between Shook and TDA and accepted DD VE. Playground fence has also been reduced based on revised area. An alternate has been provided to increase the scope to match the GMP documents.
25. There is no ornamental site fence on the project. Areas at outdoor dining and PK/K play designated as such on the GMP documents have been estimated as chain link.
26. 'Sanitary Extension Glenwood Trail' is an allowance.
27. 'Oakes Road Widening' totaling \$542,196 is an allowance.
28. Unsuitable soils in the conditions and locations identified in the geotechnical report are part of the unsuitable soils allowance
29. Furnishings shall be designed to the furnishings allowance which is \$25,000 for the fieldhouse and \$100,000 + \$10/sf of school (\$1,544,280) based on DD VE. Scope of the fieldhouse furnishings budget, shall include loose furnishings, portable tip and roll bleachers, portable team benches, scorer's tables, and portable teaching stations shown on A350. The scope of the school furnishings allowance shall include, loose furnishings, the playground equipment and site furnishings (trash receptacles, tables, benches, twig benches, etc.), residential appliances, and shelving. These items are not included in the estimate except through this allowance.
30. The base estimate includes 800 sf (4'x200') of insulated translucent panels at the Fieldhouse.
31. The extent of acoustical panels in the Fieldhouse is limited to one 16'w x 4'h section of panels at each bay at both the north and south elevations. In bays where a scoreboard is installed, the acoustical panel area is reduced by the square footage of the scoreboard.
32. No shades have been included in A113 Media or E100 Dining. This scope is part of an alternate.
33. The group RR signs "Ladies" & "Gents" indicated on A930.2 are no longer part of the project scope and are not included in the estimate.
34. The following custom signage items are not included in the base estimate cost but are instead included as an alternate: stair tread graphics(A930.2), media center soffit vinyl wall graphic (A930.2), student dining soffit vinyl wall graphic (A930.2), vinyl window graphic-Media, vinyl stair identification signage.
35. No chemical resistance has been included at the casework; boot cubbies to include boot tray instead.
36. All work associated with the concession area (including ice cream display case, refrigerated display case, and counter door) has been deleted from the scope of the project.
37. 12 goal assembly in the Fieldhouse are included in the base estimate scope of work.
38. No colored site concrete is included in the base estimate. Any colored concrete scope indicated on the landscape drawings or otherwise is part of an alternate.
39. 3 sets of automated gates with vertical arms are included in the project base estimate. The other 3 sets described in the civil narrative are included only through selection of the applicable alternate.
40. The quantities of grasses and perennials included as part of the base estimate are as such: 525 ea #2 grasses, 350 ea #1 grasses, 175 ea #1 perennials. Any additional scope related to perennials and grasses is an alternate to the project scope.
41. Areas designated as wildflower meadow seed mix, wet basin seed mix, stormwater basin seed mix, and woodland edge seed mix are included in the estimate as standard seed mix. Premium seed upgrades are included only as an alternate.
42. Lightning protection systems are not included in the GMP.
43. The following clarifications have been included at the main mechanical room:
 - a. We have figured around 190 linear feet of 3" & 4" heating hot water piping in the main mechanical room.
 - i. Each boiler we figured the following items.
 1. Isolation Valve on each Supply & Return line.
 2. Two-Way Control Valve on the return side.
 3. A thermometer on each Supply & Return line.
 4. Flange connection to the boiler on both supply & return line.
 - ii. Each heating hot pump we figured the following items.
 1. Isolation Valve on Return line.
 2. Triple Duty Valve on the supply side.
 3. Suction Diffuser on the return side.
 4. Pressure gauge on each the supply & return lines.
 5. Flex Connector on each the supply & return lines.
 - iii. We have included piping to expansion tank, air separator, and chemical shot feeder.
 - iv. We figured running condensate off the boilers into a floor drain near the boilers.

44. We have included piping insulation and concealed supply ductwork with 2" FSK Type 75 insulation in our proposal.
45. We have included PVC for sanitary waste, storm and vent underground.
46. Cast Iron for sanitary waste, storm and vent aboveground (PVC where allowed) is included.
47. We have included schedule 40 Blk steel for natural gas and compressed air systems.
48. We have not included provisions for seismic hangers within the GMP.
49. We assume that additional manufacturers will be specified for any fixtures, equipment, etc. to ensure a competitive bid process.
50. The GMP includes sanitary, storm, roof drain piping, overflow piping, natural gas, and domestic water piping runs and sizes as identified on the drawings.
51. This GMP excludes items 5-7 of Part 4 – Technology section of GMP prose statement dated 9-19-19.

GMP EXHIBIT C – PROJECT ESTIMATE



GENERAL PROJECT INFORMATION

Brecksville-Broadview Heights CSD	Project Name
Elementary School & Field House	Project Type: K-3, K-12, High School, etc.
Brecksville, OH	Project City, State
GMP	Est. Type: Schematic Design, Design Dev, Construction
October 29, 2019	Date of Estimate

Jenny Naas
Senior Estimator



6860 W. Snowville Road, Suite 100
Brecksville, OH 44141
800-705-5251
jnaas@shookconstruction.com

Brecksville-Broadview Heights CSD

Brecksville, OH

Est. Type:

GMP

Date:

29-Oct-19

Gross Area (gsf) Tabulation

Description of Areas	Total New Areas	Total Renovations	Total GSF New+Renov
First Floor			
Conventional School Bldg Construction	89,769		89,769
PEMB Field House Construction	32,211		32,211
Second Floor	54,659		54,659
Total Gross Square Footage	176,639	-	176,639

Brecksville-Broadview Heights CSD
Brecksville, OH

New G.S.F.: 176,639 SF
Estimate Type: GMP
Date: 10/29/19

Elementary School & Field House

Element Description	Cost	Cost/SF	Fieldhouse	School
Subcontractor GC's	\$316,184	\$1.79	\$57,658	\$258,526
Subcontractor Bonding	\$486,497	\$2.75	\$80,771	\$405,725
Foundations	\$1,342,023	\$7.60	\$537,843	\$804,180
Substructure	\$1,437,091	\$8.14	\$313,119	\$1,123,972
Superstructure (incl metal bldg)	\$3,929,529	\$22.25	\$1,388,555	\$2,540,974
Fabrications	\$206,410	\$1.17	\$25,650	\$180,760
Exterior Closure	\$3,817,693	\$21.61	\$333,625	\$3,484,068
Exterior Windows & Doors	\$1,105,546	\$6.26	\$114,261	\$991,286
Roof	\$1,483,319	\$8.40	\$5,100	\$1,478,219
Interior Partitions	\$2,105,147	\$11.92	\$134,949	\$1,970,198
Interior Windows & Doors	\$820,984	\$4.65	\$52,146	\$768,838
Interior Finishes	\$2,846,492	\$16.11	\$422,630	\$2,423,862
Specialties/Fittings	\$631,642	\$3.58	\$22,418	\$609,225
Food Service	\$670,000	\$3.79	\$0	\$670,000
Casework	\$954,778	\$5.41	\$9,435	\$945,343
Athletics	\$234,620	\$1.33	\$234,620	\$0
Theatrical	\$35,500	\$0.20	\$0	\$35,500
Equipment	\$13,350	\$0.08	\$0	\$13,350
Conveying	\$187,000	\$1.06	\$0	\$187,000
Plumbing	\$2,340,000	\$13.25	\$32,000	\$2,308,000
Fire Protection	\$545,000	\$3.09	\$78,000	\$467,000
HVAC	\$3,985,000	\$22.56	\$150,000	\$3,835,000
Electrical	\$4,500,000	\$25.48	\$375,000	\$4,125,000
Technology & Cabling	\$2,108,000	\$11.93	\$103,000	\$2,005,000
Site Demolition	\$149,498	\$0.85	\$74,749	\$74,749
Site Preparation	\$1,974,373	\$11.18	\$774,978	\$1,199,395
Site Pavings	\$1,860,701	\$10.53	\$920,664	\$940,036
Site Improvements	\$274,258	\$1.55	\$28,325	\$245,933
Site Landscape	\$300,487	\$1.70	\$150,243	\$150,243
Site Water	\$415,800	\$2.35	\$207,900	\$207,900
Site Gas (w/plumbing)	\$0	\$0.00	\$0	\$0
Site Sanitary	\$118,574	\$0.67	\$59,287	\$59,287
Site Storm	\$633,178	\$3.58	\$316,589	\$316,589
Sanitary Extension Glenwood Trail	\$63,850	\$0.36	\$31,925	\$31,925
Oakes Road Widening	\$542,196	\$3.07	\$271,098.21	\$271,098.21
Subtotal - Building	\$36,101,804	\$204.38	\$4,470,779	\$31,631,025
Subtotal - Site	\$6,332,914	\$35.85	\$2,835,759	\$3,497,155
Subtotal - Building plus Site	\$42,434,718	\$240.23	\$7,306,538	\$35,128,180
<i>Loose Furnishings/ FFE /Playground Equipment</i>	\$ 1,569,280	\$8.88	\$25,000.00	\$1,544,280.00
Subtotal - Building; Site; FFE	\$ 44,003,998	\$249.12	\$ 7,331,538	\$ 36,672,460
<i>Estimate Contingency (0%)</i>	\$ -	\$0.00	\$ -	\$ -
Subtotal - Building; Site; FFE; Estimate Contingency	\$ 44,003,998	\$249.12	\$ 7,331,538	\$ 36,672,460
Total - Estimated Cost	\$ 44,003,998	\$249.12	\$ 7,331,538	\$ 36,672,460
Project Budget	\$ 44,226,962		\$7,342,836	\$36,884,126
Budget Difference - (over) / under	\$ 222,964		\$ 11,298	\$ 211,666



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

	Qty	Unit	Base Unit Cost	SubTtl
Subcontractor GC's				
School Sub's General Requirements (M,E,P,FP,Tech not included)	144,428	Sf	\$1.79	\$258,526
F Field House Sub's General Requirements (M,E,P,FP,Tech not incl)	32,211	Sf	\$1.79	\$57,658
				\$316,184
Subcontractor Bonding				
Bonding - school	1.1	%	\$368,841	\$405,725
F Bonding - fieldhouse	1.1	%	\$73,428	\$80,771
				\$486,497
Foundations				
Concrete Footing Perimeter - school	461	Cy	\$480.00	\$221,290
F Concrete Footing Perimeter - fieldhouse	121	Cy	\$480.00	\$58,313
Temp heat for concrete	1	Ls	\$26,250.00	\$26,250
14" Fnd System: 6"CMU +vapor membrane +3"R.I. + grouted cavity +4"brick/CMU w/ Resteel - school	2,733	Sf	\$54.96	\$150,195
16" Fnd System: 8"CMU +vapor membrane +3"R.I. + grouted cavity +4"brick/CMU w/ Resteel - school	360	Sf	\$54.96	\$19,784
Allow for lower foundation level at NW corner based on PSI note: All the building foundation should be extend to the natural soils. 16" Fnd System: 8"CMU+4"Cavity+4"FaceCMU w/ Resteel - school	360	Sf	\$54.96	\$19,784
F 16" Fnd System: 8"CMU +vapor membrane +3"R.I. + cavity +4"brick/CMU w/ Resteel - fieldhouse	917	Sf	\$54.96	\$50,372
F 20" Fnd System: 12"CMU +vapor membrane +3"R.I. + cavity +4"brick/CMU w/ Resteel - fieldhouse	64	Sf	\$60.43	\$3,867
Concrete Footing Interior Wall - school	132	Cy	\$480.00	\$63,168
F Concrete Footing Interior Wall - fieldhouse	139	Cy	\$480.00	\$66,677
F Concrete Tie Beams - fieldhouse	109	Cy	\$560.00	\$61,141
CMU Foundation Wall Interior (6"or 8") - school	3,221	Sf	\$17.59	\$56,649
F CMU Foundation Wall Interior (8") - fieldhouse	302	Sf	\$17.59	\$5,312
F CMU Foundation Wall Interior (12") - fieldhouse	313	Sf	\$23.06	\$7,222
Spread Ftgs. Column Type - school	641	Cy	\$470.00	\$301,471
F Spread Ftgs. Column Type - fieldhouse	129	Cy	\$470.00	\$60,592
Concrete Pier/Pilaster - school	6	Cy	\$2,000.00	\$12,242
F Concrete Pier/Pilaster - fieldhouse	17	Cy	\$2,000.00	\$33,659
Exterior Stoops - school	42	Cy	\$750.00	\$31,588
F Exterior Stoops - fieldhouse	11	Cy	\$750.00	\$8,335
Set Anchor Bolts And Grout Base Plates - school	183	Sets	\$287.75	\$52,658
F Set Anchor Bolts And Grout Base Plates - fieldhouse	43	Sets	\$287.75	\$12,373
Temporary Dewatering	1	Allw	\$5,000.00	\$5,000
Flowable Fill Concrete	100	Cy	\$100.00	\$10,000
Waterproofing (below Grade)	408	Sf	\$10.00	\$4,080



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

\$1,342,023

Substructure

	4" Concrete Slab On Grade - school	89,769 Sf	\$6.30	\$565,545
F	5" Concrete Slab On Grade - fieldhouse	32,211 Sf	\$6.80	\$219,035
F	upcharge for #4 rebar in lieu of W.W.F. - fieldhouse	32,211 Sf	\$1.15	\$37,043
	Redress Top 2" Base Granular Fill Below Slab (6") - school	89,769 Sf	\$0.31	\$27,706
F	Redress Top 2" Base Granular Fill Below Slab (6") - FH	32,211 Sf	\$0.31	\$9,942
	Thickened Slab @ Interior Walls	250 Lf	\$7.50	\$1,875
	Thickened Slab @ Column Ftg / Column Boxout - school	183 Ea	\$150.00	\$27,450
	MRVA 900 Admixture (eliminates need for moisture mitigation in flooring spec) @ Slab - school	1,123 Cy	\$55.00	\$61,750
F	MRVA 900 Admixture (eliminates need for moisture mitigation in flooring spec) @ Slab - fieldhouse	497 Cy	\$55.00	\$27,340
	10 Mil Vapor Barrier Under Slab On Grade - school	89,769 Sf	\$0.45	\$40,396
F	10 Mil Vapor Barrier Under Slab On Grade - fieldhouse	32,211 Sf	\$0.45	\$14,495
	Perimeter Insulation @ Foundation - school	6,660 Sf	\$3.00	\$19,980
F	Perimeter Insulation @ Foundation - fieldhouse	1,755 Sf	\$3.00	\$5,265
	Concrete Stair - Feature Stair (F)	384 Lfr	\$75.00	\$28,800
	Concrete Stair Landing - Feature Stair (F)	150 Sf	\$10.00	\$1,500
	Geofoam @ Feature Stair	2,340 Cf	\$3.50	\$8,190
	3.5" Concrete On Metal Deck - 2nd fl (Deck Not Incl)	54,659 Sf	\$5.75	\$314,289
	Cooler/Freezer Pad (insulated double slab)	320 Sf	\$12.00	\$3,840
	Elevator Pit	2 Ea	\$4,950.00	\$9,900
	Concrete Fill at Metal Pan Stair (floor to floor)	5 Ea	\$1,500.00	\$7,500
	Embedded Iron Allowance	1 Ls	\$5,250.00	\$5,250

\$1,437,091

Superstructure

F	PEMB - fieldhouse (insulated metal panels 26 ga. w/ ribbed profile (ThermaClad Shallow Plank)	32,211 Sf	\$41.75	\$1,344,809
	Structural Steel Beams	295 Tn	\$3,450.00	\$1,018,231
	Structural Steel Columns	115 Tn	\$3,450.00	\$396,429
	Steel Joists K Series	56 Tn	\$3,450.00	\$193,497
	Steel Joists KCS Series	6 Tn	\$3,450.00	\$20,416
	Support Steel for Solar Panels	3.5 Tn	\$3,450.00	\$12,075
	Support Steel for Kitchen Equipment	2 Tn	\$3,450.00	\$6,900
F	Steel to accommodate Gym Divider Curtains (3)	8 Tn	\$3,450.00	\$27,600
F	Steel to accommodate Basketball Backstops (16)	4.68 Tn	\$3,450.00	\$16,146
	Bridging	21.2 Tn	\$3,350.00	\$71,162
	Masonry Support Steel	40.1 Tn	\$3,350.00	\$134,416
	Miscellaneous Structural Framing	21,242 Lbs	\$2.00	\$42,484
	Bearing Plates, L Angles, C Channels	25,963 Lbs	\$2.00	\$51,925
	Moment Connections	240 Ea	\$225.00	\$54,000
	Shear Studs	5,580 Ea	\$2.50	\$13,950
	Removal of Perimeter Cable	1,775 Lf	\$8.00	\$14,200
	Perimeter Cable at 2nd Floor Openings	460 Lf	\$16.00	\$7,360



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

Light Gage CFS Trusses (Type 1,2,3,4)	1 Ls	\$75,000.00	\$75,000
Metal Floor Deck (3" x 20 Ga Composite)	54,659 Sf	\$3.75	\$204,971
Metal Roof Deck (1 1/2" x 22 Ga.)	95,301 Sf	\$2.35	\$223,957
			\$3,929,529

Fabrications

Ladders (roof ladder)	4 Ea	\$1,500.00	\$6,000
Ladders - Ship(Cage) Type	3 Ea	\$2,250.00	\$6,750
F Ladders - Ship(Cage) Type - fieldhouse	1 Ea	\$2,250.00	\$2,250
Metal Pan Stair Set (floor to floor)	5 Ea	\$10,000.00	\$50,000
Metal Pan Stair Set (top section @ ends of feature stair)	2 Ea	\$5,000.00	\$10,000
Metal Pan Stair Set (top section @ center of feature stair)	1 Ea	\$15,000.00	\$15,000
Metal Pan Landing	250 Sf	\$50.00	\$12,500
Wall Mounted Assist Railings (Steel)	320 Lf	\$55.00	\$17,600
Railing (Full Level) - Aluminum Ornamental w/Glass	71 Lf	\$360.00	\$25,560
Railing (Full Rake)- Aluminum Ornamental w/Glass	30 Lf	\$410.00	\$12,300
Assist Railings @ Full Rake (Aluminum)	30 Lf	\$35.00	\$1,050
Wall Mounted Assist Railings (Aluminum)	30 Lf	\$70.00	\$2,100
Expansion Joint/Covers	360 Lf	\$40.00	\$14,400
F Expansion Joint/Covers - fieldhouse	510 Lf	\$40.00	\$20,400
Steel Bollards	10 Ea	\$750.00	\$7,500
F Steel Bollards - fieldhouse	4 Ea	\$750.00	\$3,000
			\$206,410

Exterior Closure

Wall X1/X4 on A500 (typ brick/split faced CMU on masonry - 8" CMU):

8" Block Backup + Resteel	5,511 Sf	\$16.39	\$90,320
Fluid-applied vapor-permeable Air/Water Barrier ABBA	5,511 Sf	\$4.52	\$24,914
3" Rigid Insulation	5,511 Sf	\$3.80	\$20,913
Face Brick Veneer - 3-5/8 inches by 3-5/8 inches by 11-5/8 inches (utility brick)	86 Sf	\$23.99	\$2,063
CMU Veneer - (split faced)	5,425 Sf	\$19.36	\$105,021
Premium for pattern at split faced CMU	988 Sf	\$9.92	\$9,800

Wall X2/X9 on A500 (typ brick/split faced on stud wall):

Stud wall assembly: Interior type X drywall; 6" metal stud framing; R21 batt insul; exterior type X drywall; fluid applied air & water barrier (ABBA); 1 1/2" rigid insulation	35,716 Sf	\$22.31	\$796,819
Face Brick Veneer - 3-5/8 inches by 3-5/8 inches by 11-5/8 inches (utility brick)	22,041 Sf	\$23.99	\$528,784
CMU Veneer - (split faced)	13,675 Sf	\$19.36	\$264,751
Premium for pattern at split faced CMU	5,362 Sf	\$9.92	\$53,198

Wall X3/X5 on A500 (typ fiber cement panel or metal panel on stud wall):



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

Stud wall assembly: Interior type X drywall; 6" metal stud framing; R21 batt insul; exterior type X drywall; fluid applied air & water barrier (ABBA); composite nail base insulated wall sheathing 2.0"			
	16,949 Sf	\$31.63	\$536,130
1 1/2" CFMF hat channel	16,949 Sf	\$2.22	\$37,709
Fiber Cement Panel	16,173 Sf	\$31.34	\$506,920
Metal Panel (non-insulated)	776 Sf	\$31.65	\$24,562
<u>Fieldhouse Wall X1/X4 on A500 (typ brick/split faced CMU on masonry - 8" or 12" CMU):</u>			
F 8" Block Backup + Resteel	728 Sf	\$16.39	\$11,929
F 12" Block Backup + Resteel	64 Sf	\$20.28	\$1,298
F Fluid-applied vapor-permeable Air/Water Barrier ABBA	792 Sf	\$4.52	\$3,580
F 3" Rigid Insulation	792 Sf	\$3.80	\$3,005
F Face Brick Veneer - 3-5/8 inches by 3-5/8 inches by 11-5/8 inches (utility brick)	792 Sf	\$23.99	\$18,996
<u>Fieldhouse Wall X6 on A500 (typ brick on masonry - 12" CMU*):</u>			
F 12" Block Backup + Resteel	4,317 Sf	\$20.28	\$87,572
F 1.5" CFMF Hat Channel	4,317 Sf	\$2.22	\$9,584
F Insulated Metal Panel System (w/ PEMB scope)	4,317 Sf	\$0.00	\$0
<u>Fieldhouse Wall X7 on A500 (typ brick on masonry - 8" CMU):</u>			
F 8" Block Backup + Resteel	2,965 Sf	\$16.39	\$48,604
F 7/8" CFMF Hat Channel	2,965 Sf	\$2.09	\$6,198
F Insulated Metal Panel System (w/ PEMB scope)	2,965 Sf	\$0.00	\$0
<u>Fieldhouse Wall X8 on A500 (insulated metal panel on z-girts):</u>			
F Z-Girts	13,391 Sf	\$5.25	\$70,300
F PEMB Interior Surface/ Liner	13,391 Sf	\$4.00	\$53,562
F Insulated Metal Panel System (w/ PEMB scope)	13,391 Sf	\$0.00	\$0
Temporary Heat & Enclosures - masonry	1 Ls	\$75,000.00	\$75,000
Temporary Enclosures & Doors	1 Ls	\$130,000.00	\$130,000
Premium for labor at curved walls	523 Sf	\$57.00	\$29,793
Labor Premium at Hexagon Window	28 Ea	\$1,000.00	\$28,000
Premium to account for fire wall/barrier (8") - school	924 Sf	\$2.37	\$2,185
F Premium to account for fire wall/barrier (8") - fieldhouse	383 Sf	\$2.37	\$905
F Premium to account for fire wall/barrier (12") - fieldhouse	4,381 Sf	\$2.37	\$10,362
Soffit - Framed Assembly w/Fiber Cement Panel	560 Sf	\$55.56	\$31,108
stud extention at soffit (B7)	1,120 Sf	\$4.66	\$5,215
Soffit - >1' deep Fiber Cement Soffit @ Roof Perimeter	800 Lf	\$55.56	\$44,447
Canopy Soffit (Framing & Fiber Cement Panel)	1,265 Sf	\$55.56	\$70,281
Canopy Soffit Hexagon Feature	4 Ea	\$500.00	\$2,000
Canopy Soffit Edge Framing/Metal Panels	146 Lf	\$201.86	\$29,471
Wood Blocking Allowance - school	144,428 Sf	\$0.16	\$23,108
F Wood Blocking Allowance - fieldhouse	32,211 Sf	\$0.16	\$5,154
Caulking & Sealants - school	144,428 Sf	\$0.08	\$11,554
F Caulking & Sealants - fieldhouse	32,211 Sf	\$0.08	\$2,577

\$3,817,693

Exterior Windows & Doors



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

	Aluminum Storefront/Window, Low E standard performing glass, fixed	7,641 Sf	\$80.00	\$611,280
	Add for operable sash	168 Ea	\$600.00	\$100,800
	Add for Frosted Glass	950 Sf	\$11.00	\$10,450
F	Aluminum Fieldhouse Storefront/Window, Low E standard performing glass, fixed - fieldhouse	40 Sf	\$80.00	\$3,200
F	Add for operable sash - fieldhouse	4 Ea	\$600.00	\$2,400
	Aluminum Hexagon Window (SF5) - 5'-4" wide	6 Ea	\$2,500.00	\$15,000
	Aluminum Hexagon Window (SF7) - 4' wide	18 Ea	\$2,500.00	\$45,000
	Aluminum 7'-4" Hexagon Storefront Unit (SF8)	4 Ea	\$5,000.00	\$20,000
	Aluminum Storefront, Low E	979 Sf	\$50.00	\$48,950
	Aluminum Curtainwall, Low E	425 Sf	\$90.00	\$38,250
	Add for Ceramic Coated Spandrel	76 Sf	\$5.00	\$380
	Add for Insulation @ Spandrel Glass	76 Sf	\$5.30	\$403
F	Kalwall Transparent Panel - fieldhouse	800 Sf	\$95.00	\$76,000
	Alum Entry Door (Leaf)	21 Ea	\$3,250.00	\$68,250
	ADA Entry Door Opener	4 Ea	\$3,500.00	\$14,000
	FRP Door and Frame (3070)	2 Ea	\$3,500.00	\$7,000
	Glazing @ Doors (per lite)	1 Ea	\$125.00	\$125
F	FRP Door and Frame (6070) - fieldhouse	4 Ea	\$6,000.00	\$24,000
F	Glazing @ Doors (per lite)	6 Ea	\$100.00	\$600
	Overhead Door	59 Sf	\$55.00	\$3,227
	Add Electric Opener	1 Ea	\$950.00	\$950
F	Overhead Door - fieldhouse	100 Sf	\$55.00	\$5,500
F	Add Electric Opener	1 Ea	\$950.00	\$950
	Caulking & Sealants - school	144,428 Sf	\$0.05	\$7,221
F	Caulking & Sealants - fieldhouse	32,211 Sf	\$0.05	\$1,611
				\$1,105,546

Roof

	Asphalt Shingle Roof over Vented Nail Base	10,781 Sf	\$23.75	\$256,049
	60 mil TPO Roof (adhered membrane) on Cover Board over 2 layers mech fastened 3" Polyiso (<i>incl tapered insul; vapor barrier; assoc. flashings, gutters, downspouts, etc</i>) 20 yr warranty	83,255 Sf	\$14.00	\$1,165,570
	60 mil TPO Roof (adhered membrane) on Cover Board over 2 layers mech fastened 3" Polyiso (<i>incl tapered insul; vapor barrier; assoc. flashings, gutters, downspouts, etc</i>) 20 yr warranty - Canopy	1,265 Sf	\$14.00	\$17,710
	Downspout Boots - PVC	14 Ea	\$200.00	\$2,800
F	Downspout Boots - PVC - fieldhouse	13 Ea	\$200.00	\$2,600
	Roof Access Hatch	3 Ea	\$2,500.00	\$7,500
F	Roof Access Hatch - fieldhouse	1 Ea	\$2,500.00	\$2,500
	Wood Blocking	95,301 Sf	\$0.25	\$23,825
	Sealants	95,301 Sf	\$0.05	\$4,765



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

\$1,483,319

Interior Partitions

	4" C.M.U. Interior Partitions (plumbing chases)	70 Sf	\$18.70	\$1,309
	6" C.M.U. Interior Partitions	2,296 Sf	\$16.15	\$37,076
	8" C.M.U. Interior Partitions	30,978 Sf	\$16.15	\$500,233
	add premium to account for fire wall/barrier	5,530 Sf	\$2.37	\$13,078
F	8" C.M.U. Interior Partitions - fieldhouse	2,501 Sf	\$16.15	\$40,392
F	add premium to account for fire wall/barrier - fieldhouse	139 Sf	\$2.37	\$330
F	12" C.M.U. Interior Partitions - fieldhouse	2,977 Sf	\$19.36	\$57,630
F	add premium to account for fire wall/barrier - fieldhouse	2,977 Sf	\$2.37	\$7,040
	3 5/8" m.s. w/ batt insul & 1 layer 5/8" gyp bd - self supported furring (B4)	26376 Sf	\$6.30	\$166,264
	3 5/8" m.s. w/ batt insul & 1 layer 5/8" gyp bd both sides - rated metal stud (C5)	4539 Sf	\$10.34	\$46,939
	6" m.s. w/ batt insul & 1 layer 5/8" gyp bd both sides - rated metal stud (C7)	1401 Sf	\$10.77	\$15,094
	3 5/8" m.s. w/ batt insul & 1 layer 5/8" gyp bd both sides - nonrated metal stud (D5)	101525 Sf	\$9.31	\$945,317
F	3 5/8" m.s. w/ batt insul & 1 layer 5/8" gyp bd both sides - nonrated metal stud (D5) - fieldhouse	1554 Sf	\$9.31	\$14,470
	6" m.s. w/ batt insul & 1 layer 5/8" gyp bd both sides - nonrated metal stud (D7)	574 Sf	\$9.80	\$5,623
	8" m.s. w/ batt insul & 1 layer 5/8" gyp bd both sides - nonrated metal stud (D9)	700 Sf	\$10.42	\$7,297
	Add 1 layer 5/8" gyp bd to one side masonry partition (N8)	3710 Sf	\$2.33	\$8,636
	Add one layer 1 5/8" furring & 5/8" gyp bd to one side masonry partition (P10-1hr)	1960 Sf	\$4.99	\$9,771
	Temporary stairtowers @ elevator shafts	1 Ls	\$25,000.00	\$25,000
	Drywall Ceiling (framing & gyp bd)	809 Sf	\$9.43	\$7,635
	1 hr rated Drywall Ceiling (framing & gyp bd)	473 Sf	\$10.01	\$4,733
	Drywall soffits - vertical of the soffit (framing & gyp bd)	1478 Lf	\$54.59	\$80,684
	Drywall soffits - horizontal of the soffit (framing & gyp bd)	3239 Sf	\$9.43	\$30,559
	Gyp Board Closure at Coiling Door	33 Lf	\$130.00	\$4,290
F	Gyp Board Closure at Coiling Door - FH	12 Lf	\$130.00	\$1,560
	Firestopping - school	144,428 Sf	\$0.10	\$14,443
F	Firestopping - fieldhouse	32,211 Sf	\$0.10	\$3,221
	Wood Blocking - school	144,428 Sf	\$0.18	\$28,886
F	Wood Blocking - fieldhouse	32,211 Sf	\$0.18	\$6,442
	Caulking & Sealants - school	144,428 Sf	\$0.12	\$17,331
F	Caulking & Sealants - fieldhouse	32,211 Sf	\$0.12	\$3,865

\$2,105,147

Interior Windows & Doors

	Alum Entry Door (Leaf)	16 Ea	\$3,250.00	\$52,000
	ADA Entry Door Opener	5 Ea	\$2,500.00	\$12,500



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

Aluminum Storefront	526 Sf	\$50.00	\$26,300
Aluminum 7'-4" Hexagon Storefront Unit	1 Ea	\$5,000.00	\$5,000
Aluminum Window	28 Sf	\$45.00	\$1,260
Aluminum Sliding Window	56 Sf	\$60.00	\$3,360
Wood Door W/HM Frame (3070)	232 Ea	\$1,600.00	\$371,200
additional @ fire wall	5 Ea	\$1,000.00	\$5,000
F Wood Door W/HM Frame (3070) - fieldhouse	5 Ea	\$1,600.00	\$8,000
F additional @ fire wall - fieldhouse	1 Ea	\$1,000.00	\$1,000
Wood Door W/HM Frame (3670)	3 Ea	\$1,675.00	\$5,025
F Wood Door W/HM Frame (3670) - fieldhouse	2 Ea	\$1,675.00	\$3,350
Wood Door W/HM Frame (6070)	20 Ea	\$2,565.00	\$51,300
additional @ fire wall	3 Ea	\$2,000.00	\$6,000
F Wood Door W/HM Frame (6070) - fieldhouse	6 Ea	\$2,565.00	\$15,390
F additional @ fire wall - fieldhouse	2 Ea	\$2,000.00	\$4,000
Wood Door W/HM Frame (7070)	4 Ea	\$2,870.00	\$11,480
additional @ fire wall	2 Ea	\$2,000.00	\$4,000
HM Door and Frames (3070)	9 Ea	\$1,500.00	\$13,500
HM Door and Frames (6070)	4 Ea	\$2,700.00	\$10,800
HM Door and Frames (7070)	2 Ea	\$2,900.00	\$5,800
HM Door and Frames (8070)	1 Ea	\$3,100.00	\$3,100
HM Frames (8070)	4 Ea	\$1,700.00	\$6,800
Glazing @ Doors (per narrow lite)	56 Ea	\$100.00	\$5,600
Glazing @ Doors (per half lite)	4 Ea	\$150.00	\$600
Glazing @ Doors (per decorative-hexagon lite)	108 Ea	\$300.00	\$32,400
Add for fire rated glazing	4 Sf	\$150.00	\$600
F Glazing @ Doors (per narrow lite) - fieldhouse	11 Ea	\$125.00	\$1,375
F Add for fire rated glazing - fieldhouse	5 Sf	\$150.00	\$750
Add For FR Door Labels	19 Ea	\$150.00	\$2,850
F Add For FR Door Labels - fieldhouse	5 Ea	\$150.00	\$750
Access Doors/Panels	20 Ea	\$250.00	\$5,000
F HM Sidelite/Borrowed Lite Frame - fieldhouse	32 Sf	\$35.00	\$1,120
F Glass @ Borrowed Lite - fieldhouse	32 Sf	\$15.00	\$480
Interior all glass wall system (G)	270 Sf	\$70.00	\$18,900
Interior Glass Smoke Baffle (1'-6"h)	102 Lf	\$75.00	\$7,650
Operable Folding Wall Partition	1,088 Sf	\$48.00	\$52,224
premium for markerboard material	928 Sf	\$20.00	\$18,560
premium for glass material	160 Sf	\$40.00	\$6,400
Coiling Counter Door	205 Sf	\$80.00	\$16,408
F Coiling Counter Door - fieldhouse	54 Sf	\$80.00	\$4,320
F add fire shutter - fieldhouse	1 Ea	\$10,000.00	\$10,000
Caulking & Sealants - school	144,428 Sf	\$0.05	\$7,221
F Caulking & Sealants - fieldhouse	32,211 Sf	\$0.05	\$1,611

\$820,984

Interior Finishes

Floor Finishes - Carpet Tile	9,887 Sf	\$4.40	\$43,503
F Floor Finishes - Carpet Tile - fieldhouse	1,239 Sf	\$4.40	\$5,452



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

	Floor Finishes - Walk-off carpet tile	1,337 Sf	\$8.00	\$10,693
	Floor Finishes - Sheet Vinyl	6,793 Sf	\$7.00	\$47,550
	Floor Finishes - Sheet Vinyl Tile	22,435 Sf	\$6.05	\$135,735
F	Floor Finishes - Sheet Vinyl Tile - fieldhouse	359 Sf	\$6.05	\$2,175
	Floor Finishes - LVT	90,902 Sf	\$6.60	\$599,951
	Floor Finishes - Resinous Flooring	4,475 Sf	\$11.00	\$49,229
F	Floor Finishes - Fluid Applied Sports Floor	30,187 Sf	\$9.90	\$298,854
	Floor Finishes - Sealed Concrete	6,462 Sf	\$0.75	\$4,847
F	Floor Finishes - Sealed Concrete - fieldhouse	1,222 Sf	\$0.75	\$916
	Floor Finishes - Rubber Stair Tread/Riser Combo	784 Lfr	\$75.00	\$58,800
	Floor Finishes - Rubber Landings	280 Sf	\$11.00	\$3,080
	Floor Finishes - Carpet Stair Treads & Risers (double width/height)	240 Lfr	\$40.00	\$9,600
	Floor Finishes - Carpet Landings	120 Sf	\$10.00	\$1,200
	Floor Finishes - Resilient Athletic Sheet	765 Sf	\$15.00	\$11,479
	Rubber Base - 4" Cove	19,753 Lf	\$3.00	\$59,259
F	Rubber Base - 4" Cove - fieldhouse	654 Lf	\$3.00	\$1,963
F	Vented Vinyl Base (Gym Floors)	705 Lf	\$6.60	\$4,655
	Sheet Vinyl Flash Cove Base	2,503 Lf	\$25.00	\$62,570
	Resinous Base	705 Lf	\$8.80	\$6,205
	Ceiling Finishes - ACT-1 (based on Fine Fissured School Zone)	105,548 Sf	\$4.19	\$442,469
F	Ceiling Finishes - ACT-1 (based on Fine Fissured School Zone) - fieldhouse	1,092 Sf	\$4.19	\$4,577
	Ceiling Finishes - ACT-1C/2C/3C (based on Armstrong Calla, custom colors) w/ custom, colored ceiling grid	8,763 Sf	\$5.94	\$52,081
	Ceiling Finishes - ACT-2 (Performa Symphony M)	3,754 Sf	\$6.14	\$23,047
	Ceiling Finishes - ACT-3 (Celotex Symphony F)	4,020 Sf	\$8.11	\$32,587
	Ceiling Finishes - ACT-4 (2x4) scrubbable - restrooms	5,523 Sf	\$7.64	\$42,209
	Ceiling Finishes - ACT-5 (2x4) scrubbable - kitchen	4,151 Sf	\$5.31	\$22,061
	Ceiling Finishes - Acoustical Clouds (student dining)	3,723 Sf	\$27.50	\$102,395
	Ceiling Finishes - Exposed Painted	11,378 Sf	\$1.30	\$14,792
F	Ceiling Finishes - Exposed Painted - fieldhouse	31,916 Sf	\$1.30	\$41,490
	Ceiling Finishes - Paint Soffit	6,195 Sf	\$0.95	\$5,885
	Wall Finishes - Paint	170,620 Sf	\$0.95	\$162,089
F	Wall Finishes - Paint - fieldhouse	20,013 Sf	\$0.95	\$19,012
	Wall Finishes - Epoxy Paint	19,246 Sf	\$2.25	\$43,304
	Wall Finishes - High Performance Paint	34,735 Sf	\$2.10	\$72,943
	Wall Finishes - Accent Painting	1 Ls	\$10,000.00	\$10,000
	Wall Finishes - Ceramic Tile	3,861 Sf	\$16.00	\$61,768
	Cement Backing Board at Wall Tile	3,861 Sf	\$2.00	\$7,721
	Wall Finishes - Slat Wall	48 Sf	\$41.35	\$1,985
	Wall Finishes - FRP	2,337 Sf	\$8.83	\$20,636
	Wall Finishes - Senory Room Wall Pads	1,653 Sf	\$20.00	\$33,063
	Wood cap @ stairs and half wall	168 Lf	\$65.00	\$10,920
	Activity Wall	13 Ea	\$1,500.00	\$19,500
	Built-In Hexagonal Nook	12 Ea	\$3,000.00	\$36,000
	Acoustical Wall Panels - Hexagon (Media)	221 Sf	\$55.00	\$12,155



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

	Acoustical Wall Panels - Hexagon (Performance/Dining)	420 Sf	\$55.00	\$23,100
	Acoustical Wall Panels - Music	320 Sf	\$30.00	\$9,600
F	Acoustical Wall Panels Fieldhouse (16' wide x 4' high typ)	1,408 Sf	\$30.00	\$42,240
	2x4 geometric ceiling acoustical diffusers - Music	176 Sf	\$37.00	\$6,512
	Paint Steel Columns	56 Ea	\$250.00	\$14,000
	Paint HM Frames	279 Ea	\$99.65	\$27,802
F	Paint HM Frames - fieldhouse	13 Ea	\$99.65	\$1,295
	Paint HM Door	23 Ea	\$100.65	\$2,315
	Paint Metal Pan Stairs	8 Ea	\$903.00	\$7,224

\$2,846,492

Specialties/Fittings

	Display Case (6' high built in)	28 Lf	\$600.00	\$16,800
	Tackless Display Rail	1,008 Lf	\$25.00	\$25,200
	Tack Board (4' or 5' high)	405 Lf	\$70.00	\$28,350
	Marker Board (4' or 5' high)	1,451 Lf	\$80.00	\$116,080
F	Marker Board (4' or 5' high) - fieldhouse	18 Lf	\$80.00	\$1,440
	Magnetic Glassboard (4' or 5' high)	88 Lf	\$115.00	\$10,120
	Pencil Sharpener & Mounting Plate	79 Ea	\$75.00	\$5,925
	Toilet Partition Solid Plastic - Handicap	10 Ea	\$990.00	\$9,900
	Toilet Partition Solid Plastic - Standard	18 Ea	\$615.00	\$11,070
	Urinal Screen	1 Ea	\$435.00	\$435
	Hand Dryer	68 Ea	\$600.00	\$40,800
	Grab Bar Set (Toilet - 3 bar)	58 Set	\$210.00	\$12,180
	Grab Bar (HC-Shower)	4 Ea	\$140.00	\$560
	Paper Towel Disp. (Lbr Only)	99 Ea	\$30.00	\$2,970
F	Paper Towel Disp. (Lbr Only) - fieldhouse	1 Ea	\$30.00	\$30
	Toilet Paper Dispenser (Lbr Only)	76 Ea	\$20.00	\$1,520
	Soap Dispenser (Lbr Only)	148 Ea	\$20.00	\$2,960
F	Soap Dispenser (Lbr Only) - fieldhouse	1 Ea	\$20.00	\$20
	Sanitary Napkin Disposal	35 Ea	\$85.00	\$2,975
	Sanitary Napkin Vendor	8 Ea	\$500.00	\$4,000
	Shower Enclosure	4 Ea	\$980.00	\$3,920
	Shower Seat	4 Ea	\$170.00	\$680
	Shower Curtain / Rod	4 Ea	\$129.00	\$516
	Towel/Robe/Coat Hook	102 Ea	\$15.00	\$1,530
F	Towel/Robe/Coat Hook - fieldhouse	3 Ea	\$15.00	\$45
	Child Changing Table	2 Ea	\$405.00	\$810
	Mirror 18" x 36"	48 Ea	\$225.00	\$10,800
	Mirror 24" x 60"	8 Ea	\$300.00	\$2,400
	Mirror 60" x 36"	10 Ea	\$450.00	\$4,500
F	Fieldhouse Locker Type - Double Tier Athletic 12"x18"x66"	19 Ea	\$325.00	\$6,175
	Custodial Lockers 15" w (15x15)	6 Ea	\$200.00	\$1,200
F	Storage Lockers 15" w (15x15) - fieldhouse	4 Ea	\$200.00	\$800
	Kitchen Lockers 15" w - 2 tier	6 Ea	\$200.00	\$1,200
	Janitor Closet Acc (Mop Holder)	7 Ea	\$121.80	\$853
	Fire Extinguishers and Cabinets	40 Ea	\$300.00	\$12,000



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

F	Fire Extinguishers and Cabinets - fieldhouse	8 Ea	\$300.00	\$2,400
	AED Defibrillator Cabinet Only	2 Ea	\$500.00	\$1,000
	Cubical Curtain & Track	52 Lf	\$75.00	\$3,900
	Corner Guards - 8'h	5,048 Lf	\$10.65	\$53,761
F	Corner Guards - 8'h - fieldhouse	104 Lf	\$10.65	\$1,108
	Roller Shades - Manual Window Shades (windows)	7,845 Sf	\$10.00	\$78,450
F	Roller Shades - Manual Window Shades (windows)	40 Sf	\$10.00	\$400
	Time Capsule	1 Ea	\$1,250.00	\$1,250
	Knox Box	2 Ea	\$1,500.00	\$3,000
	Interior Signage, Window/Door Tags, Dedication Plaque	1 Ls	\$89,220.00	\$89,220
F	Interior Signage, Window/Door Tags, Dedication Plaque - fieldhouse	1 Ls	\$10,000.00	\$10,000
	Acrylic Entry Timeline Signs	1 Ls	\$4,820.00	\$4,820
	Student Dining Wall Graphic	1 Ls	\$5,515.00	\$5,515
	Vinyl Hexagons	1 Ls	\$23,850.00	\$23,850
	Custom Vinyl Wings	1 Ls	\$2,410.00	\$2,410
	Vinyl "Courtyard" Text	1 Ls	\$360.00	\$360
	Vinyl PK Wall Graphic	1 Ls	\$2,120.00	\$2,120
	Vinyl PK Floor Graphic	1 Ls	\$5,000.00	\$5,000
	Vinyl "Beekeepers" - Dining	1 Ls	\$250.00	\$250
	Acrylic Room Letters	1 Ls	\$2,065.00	\$2,065
				\$631,642

Food Service

	Dining Food Service Equipment - full prep	1 Ls	\$670,000.00	\$670,000
				\$670,000

Casework

	Base Cabinet Plastic Laminate (no tops)	1191 Lf	\$160.00	\$190,560
F	Base Cabinet Plastic Laminate (no tops) - fieldhouse	19 Lf	\$160.00	\$3,040
	Countertops Plastic Laminate	1191 Lf	\$55.00	\$65,505
F	Countertops Plastic Laminate - fieldhouse	19 Lf	\$55.00	\$1,045
	Laminated Counter w/ brace supports	74 Lf	\$100.00	\$7,400
F	Laminated Counter w/ brace supports - fieldhouse	36 Lf	\$100.00	\$3,600
	Laminated Floating Shelf	104 Lf	\$115.00	\$11,903
	Wall Cabinet Plastic Laminate	1097 Lf	\$125.00	\$137,125
F	Wall Cabinet Plastic Laminate - fieldhouse	14 Lf	\$125.00	\$1,750
	Cubbies - PK/MH/Resource: 4'-6" h cubby w/ wall cabinet above & platform seat	406 Lf	\$270.00	\$109,620
	premium to include plywood cores for adjustable shelving	406 Lf	\$5.00	\$2,030
	Cubbies - K/1 Classroom 4'-6" h cubby w/ plam countertop & boot cubby	295 Lf	\$150.00	\$44,250
	premium to include plywood cores for adjustable shelving	295 Lf	\$5.00	\$1,475
	Cubbies - Collaborative: P-lam Clad 4' high double wall hung lockers	410 Lf	\$175.00	\$71,750



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

Cubbies - Collaborative: Double-sided foot locker with p-lam countertop 3'-1" h	205 Lf	\$145.00	\$29,725
Tall Cabinets Plastic Laminate	480 Lf	\$305.00	\$146,400
Mobile Casework Units (LF)	6 Lf	\$250.00	\$1,500
Art Base Cabinet	51 Lf	\$215.00	\$10,965
Art Countertops (Phenolic Resin)	51 Lf	\$115.00	\$5,865
Art Wall Cabinet	39 Lf	\$145.00	\$5,655
Art Tall Cabinets or Open Shelving	32 Lf	\$355.00	\$11,360
Bench (cusion top)	28 Lf	\$200.00	\$5,600
Reception Desk	18 Lf	\$550.00	\$9,900
Circulation Desk	23 Lf	\$550.00	\$12,650
Metal Storage Shelving (w/FFE)	0 Lf	\$125.00	\$0
F Metal Storage Shelving - fieldhouse (w/FFE)	0 Lf	\$125.00	\$0
Tall Music Cabinets Plastic Laminate	93 Lf	\$440.00	\$40,920
66"h Bookcase	19 Lf	\$315.00	\$5,985
66"h Bookcase w/ Wall Cabinets	28 Lf	\$425.00	\$11,900
44"h Bookcase	20 Lf	\$265.00	\$5,300

\$954,778

Athletics

F Gym Divider Curtain	7,920 Sf	\$6.50	\$51,480
F Electronic Control System & Keypad	1 Ls	\$5,000.00	\$5,000
F Retractable Batting Cage	1 Ea	\$15,000.00	\$15,000
F Motorized Basketball Backstop Assembly (Ceiling Susp Forward Fold Adjustable Ht)	8 Ea	\$6,120.00	\$48,960
F Motorized Basketball Backstop Assembly (Ceiling Susp Forward Fold Fixed Ht)	4 Ea	\$6,120.00	\$24,480
F Volleyball/Badminton/Tennis Combo System w/ Posts, Net, Judges Stand, Cart	4 Ea	\$4,530.00	\$18,120
F Wall Padding (2'x6')	96 Ea	\$230.00	\$22,080
F Column Wrap Wall Padding (6'h - 3 sides')	32 Ea	\$690.00	\$22,080
F Column Wrap Wall Padding - corner unit (6'h - 2 sides')	4 Ea	\$460.00	\$1,840
F Tip and Roll Bleachers (w/FFE)	0 Unit	\$0.00	\$0
F Portable Team Benches (w/FFE)	0 Unit	\$0.00	\$0
F Electro Mech LX2340 Multi Sport Scoreboard 8'x4'	4 Ea	\$5,145.00	\$20,580
F Ball & Equipment Racks	1 Ls	\$5,000.00	\$5,000

\$234,620

Theatrical

Stage Curtain (no rigging)	1 Ls	\$28,000.00	\$28,000
Electrical Projection Screen	1 Ea	\$7,500.00	\$7,500

\$35,500

Appliances & Equipment

Miscellaneous Appliances & Equipment (w/FFE)	0 Ea	\$0.00	\$0
--	------	--------	-----



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

Sensory Swing (w/FFE)	0 Ea	\$0.00	\$0
Kiln	3 Ea	\$4,450.00	\$13,350
			\$13,350
Conveying			
Electric Traction Passenger Elev. (2 stop)	2 Ea	\$93,500.00	\$187,000
			\$187,000
Plumbing			
Plumbing Systems (School)	1 Ls	\$2,308,000.00	\$2,308,000
F Plumbing Systems (Fieldhouse)	1 Ls	\$32,000.00	\$32,000
			\$2,340,000
Fire Protection			
Total Fire Protection System (School)	1 Ls	\$467,000.00	\$467,000
F Total Fire Protection System (Fieldhouse)	1 Ls	\$78,000.00	\$78,000
Add for Fire Pump (none anticipated)	0 Ls	\$0.00	\$0
			\$545,000
HVAC			
HVAC Systems (School)	1 Ls	\$3,835,000.00	\$3,835,000
F HVAC Systems (Fieldhouse)	1 Ls	\$150,000.00	\$150,000
			\$3,985,000
Electrical			
Electrical Systems (School)	1 Ls	\$4,125,000.00	\$4,125,000
F Electrical Systems (Fieldhouse)	1 Ls	\$375,000.00	\$375,000
			\$4,500,000
Technology			
Technology and Cabling (School)	1 Ls	\$2,005,000.00	\$2,005,000
F Technology and Cabling (Fieldhouse)	1 Ls	\$103,000.00	\$103,000
			\$2,108,000
Site Demolition			
Clearing	22 Acre	\$5,200.00	\$114,400
Remove House & Shed (by others/separate project - NIC)	0 Ls	\$10,000.00	\$0
Remove Fence (by others/separate project - NIC)	0 Lf	\$10.00	\$0
Remove Overhead Electric (by others/separate project - NIC)	0 Lf	\$10.50	\$0
Remove Above Ground Tank	1 Ls	\$5,000.00	\$5,000
Remove Gate	1 Ls	\$500.00	\$500



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

Remove Fence	65 Lf	\$10.00	\$650
Gravel Pavement Removal	11,930 Sf	\$0.75	\$8,948
Misc Sawcutting	1 Ls	\$1,500.00	\$1,500
Remove signs @ Valley Road Drive access	1 Ls	\$1,000.00	\$1,000
Utility pole/Guy wire Removal @ Oakes Road - Allowance	1 Ls	\$15,000.00	\$15,000
Misc Undesignated Site Demolition	1 Ls	\$2,500.00	\$2,500
			\$149,498

Site Preparation

Survey	1 Ls	\$12,000.00	\$12,000
Gravel Construction Entrance	2 Ls	\$3,500.00	\$7,000
Laydown Area	1 Ls	\$85,000.00	\$85,000
Ring/Scaffold Road @ Bldg Perimeter	1 Ls	\$80,000.00	\$80,000
Crane Pad	1 Ls	\$45,000.00	\$45,000
Sweep Streets	1 Ls	\$50,000.00	\$50,000
Carpenter/Laborer/Skid Loader	12 Mo	\$16,500.00	\$198,000
Erosion Control Filter Sock	6,500 Lf	\$8.50	\$55,250
Erosion Control Blankets	673 Sy	\$2.25	\$1,514
Erosion Control, Concrete Washout	1 Ea	\$900.00	\$900
Erosion Control, Skimmer	2 Ea	\$3,800.00	\$7,600
Erosion Control, Inlet Protection	41 Ea	\$85.00	\$3,485
Erosion Control - Upkeep	104 Wks	\$150.00	\$15,600
Temp Seeding	510,000 Sf	\$0.16	\$81,600
Strip and Stockpile Topsoil (use some as fill in yards)	33,995 Cy	\$3.00	\$101,985
Cuts	18,146 Cy	\$5.50	\$99,803
Fills in Hard Surface Areas	23,000 Cy	\$4.50	\$103,500
Fills in Yard Areas	23,262 Cy	\$4.50	\$104,679
Misc Site Grading	1 Ls	\$45,905.00	\$45,905
Pipe Spoils	7,500 Cy	\$8.00	\$60,000
Install #304 under Building Pad (6")	4,375 Tons	\$22.00	\$96,250
Grading under the Building Pad	15,000 Sy	\$1.35	\$20,250
Grading under SD Pavement	2,282 Sy	\$1.35	\$3,081
Grading under HD Pavement	23,850 Sy	\$1.35	\$32,198
Grading under Concrete Pavement	2,841 Sy	\$1.35	\$3,835
Grading under Mechanical Area	144 Sy	\$1.35	\$195
Grading under Soft Play Area	1,241 Sy	\$1.35	\$1,675
Prep under Sidewalks	4,082 Sy	\$2.50	\$10,204
Prep for Curb	11,807 Lf	\$3.25	\$38,373
Working surface for wet season earthwork schedule - Cement Stabilize 1/2 of Building Pad 12" @ 6 % - Allowance	7,500 Sy	\$12.00	\$90,000
Workable site for wet season earthwork schedule - Lime Stabilize 1/2 of Paved Areas (single lift/1 time) - Allowance	14,559 Sy	\$9.00	\$131,028
Undercut, Load & Export soils at pad and lot areas over 4' fill (PSI #304 option - no 90 day wait time)	4,296 Cy	\$24.00	\$103,104
Import/Install #304 (PSI #304 option - no 90 day wait time)	7,518 Tons	\$20.00	\$150,360



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

Additional Drying Techniques to achieve proper moisture for using onsite material as fill - Allowance	1 Ls	\$135,000.00	\$135,000
---	------	--------------	-----------

\$1,974,373

Site Pavings

HD Asphalt Drive (5") /Base	214,650 Sf	\$4.20	\$901,530
SD (3.5") Asphalt Drive /Base	20,540 Sf	\$3.30	\$67,720
8" Reinforced HD Concrete Pavement on 8" Base	25,565 Sf	\$12.00	\$306,780
Utility Yard Stone Pavement	1,300 Sf	\$3.00	\$3,900
Parking/Traffic Striping	1 Ls	\$12,500.00	\$12,500
Playground Striping	1 Ls	\$7,500.00	\$7,500
Concrete Ramp - ADA access	16 Ea	\$1,300.00	\$20,800
Concrete Sidewalk	36,735 Sf	\$9.00	\$330,615
Gravel Edge Strip (courtyard)	340 Lf	\$5.27	\$1,792
Stone Berm	1990 Lf	\$5.27	\$10,489
Concrete Curb /Turndown Edge	1,545 Lf	\$15.00	\$23,175
Rolled Curb	80 Lf	\$22.00	\$1,760
2a Curb	107 Lf	\$22.00	\$2,354
Type 6 Curbs	7605 Lf	\$21.00	\$159,705
Concrete Curb - PK playground	225 Lf	\$21.00	\$4,725
Concrete Curb - Elementary playground	255 Lf	\$21.00	\$5,355

\$1,860,701

Site Improvements

Seat Wall	21 Lf	\$120.00	\$2,520
Chain Link Fence - vinyl coated (4'h) dining / play /pond	1,360 Lf	\$30.00	\$40,800
Chain Link Single Gate (4' high; 4' opening)	5 Ea	\$750.00	\$3,750
Chain Link Dbl Gate (4' high; 8' opening)	1 Ea	\$1,000.00	\$1,000
Chain Link Fence w/ Slats (8'H) - dumpster/mech	115 Lf	\$40.00	\$4,600
Chain Link Dbl Gate	2 Ea	\$2,000.00	\$4,000
Decorative Fence (4'H) - PK playground	Lf	\$65.00	\$0
Man Gate (4'H)	Ea	\$800.00	\$0
Decorative Fence (4'H) - outdoor dining	Lf	\$65.00	\$0
Man Gate (4'H)	Ea	\$800.00	\$0
Softball Fencing (6' h) & Backstop	Ls	\$35,500.00	\$0
Softball Foul Poles	Ea	\$5,595.00	\$0
Automated Gate w/ Vertical Arm	3 Pr	\$17,200.00	\$51,600
Flag Pole (40')	1 Ea	\$4,000.00	\$4,000
Basketball Backboard/Post	4 Ea	\$2,500.00	\$10,000
Bike Rack	8 Ea	\$350.00	\$2,800
Benches (w/FFE)	0 Ea	\$1,300.00	\$0
Trash Receptacles (w/FFE)	0 Ea	\$675.00	\$0
Table (w/FFE)	0 Ea	\$2,700.00	\$0
Wood Fiber Play Area - 12"	11,165 Sf	\$3.50	\$39,078
Stone Base @ Play Area	11,165 Sf	\$2.00	\$22,330



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

	Playground Equip Allowance (w/FFE)	0 Ls	\$100,000.00	\$0
	Building Letters (12" Alum)	71 Ea	\$175.00	\$12,425
F	Building Letters (12" Alum) - fieldhouse	19 Ea	\$175.00	\$3,325
	Monumental Building Sign (Oakes Rd)	1 Ea	\$35,000.00	\$35,000
	Monumental Building Sign (Valley Parkway)	1 Ea	\$15,000.00	\$15,000
	Exterior Post & Panel Signs	6 Ea	\$1,500.00	\$9,000
	Traffic & HC Parking Signs w/base	59 Ea	\$210.00	\$12,390
	Wheel Stops	8 Ea	\$80.00	\$640
				\$274,258

Site Landscaping

	Landscaping - Shade Trees	67 Ea	\$450.00	\$30,150
	Landscaping - Ornamental Trees/Flowering Trees	37 Ea	\$440.00	\$16,280
	Landscaping - Evergreen Trees	64 Ea	\$330.00	\$21,120
	Landscaping - Lg Shrubs	3 Ea	\$140.00	\$420
	Landscaping - Shrubs	100 Ea	\$80.00	\$8,000
	Landscaping - Grasses #2	525 Ea	\$40.00	\$21,000
	Landscaping - Grasses #1	350 Ea	\$35.00	\$12,250
	Landscaping - Perennials #2	175 Ea	\$25.00	\$4,375
	Mulch @ Planting Bed	443 Sy	\$17.00	\$7,537
	Seeding (lawn)	550,276 Sf	\$0.20	\$110,055
	Spread Topsoil	9,240 Cy	\$7.50	\$69,300

\$300,487

Site Water

	6" Fire Line in Paved Areas	620 Lf	\$54.00	\$33,480
	6" Fire Line in Grass Areas	1,934 Lf	\$47.00	\$90,898
	6" Domestic Water in Grass	803 Lf	\$47.00	\$37,741
	6" Domestic Water in Paved Areas	507 Lf	\$54.00	\$27,378
	6" Domestic Water in Road	55 Lf	\$54.00	\$2,970
	6" Fire Water for FDC in Grass	158 Lf	\$47.00	\$7,426
	Domestic riser in building	1 Ea	\$3,500.00	\$3,500
	Fire riser in building	1 Ea	\$3,500.00	\$3,500
	6" tees, bends, plugs	21 Ea	\$280.00	\$5,880
	Premium Backfill	5,533 Tn	\$19.00	\$105,127
	Sawcut road and repair for tap	1 Ls	\$1,700.00	\$1,700
	Connect to Ex w/12x6 tapping sleeve and valve	1 Ea	\$4,700.00	\$4,700
	Fire Hydrant assemblies, incl tee, valve & pipe	6 Ea	\$5,500.00	\$33,000
	Fire Dept Connection	1 Ea	\$3,500.00	\$3,500
	Traffic Control	1 Ls	\$2,000.00	\$2,000
	Testing/bag and flush	1 Ls	\$5,000.00	\$5,000
	Combined meter pit	1 Ea	\$48,000.00	\$48,000

\$415,800

Site Gas



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

Gas Line (w/ plumbing)	0 Lf	\$50.00	\$0
			\$0

Site Sanitary

6" Sewer in pavement	127 Lf	\$66.00	\$8,382
8" Sewer in pavement (6.5' deep)	182 Lf	\$72.00	\$13,104
8" Sewer in pavement (10' deep)	528 Lf	\$72.00	\$38,016
8" Sewer in yard (10' deep)	314 Lf	\$55.00	\$17,270
Sanitary Sewer Cleanouts	3 Ea	\$500.00	\$1,500
4' manhole	5 Ea	\$4,200.00	\$21,000
Grease Trap	1 Ls	\$5,800.00	\$5,800
Doghouse manhole on EX line 11 feet deep	1 Ea	\$7,500.00	\$7,500
Traffic Control	1 Ls	\$2,000.00	\$2,000
Sawcut road and repair for tap	1 Ea	\$1,700.00	\$1,700
Sanitary testing	1,151 Lf	\$2.00	\$2,302
			\$118,574

Site Storm

4" Underdrains	5,600 Lf	\$14.75	\$82,600
4" finger drains	1,100 Lf	\$14.75	\$16,225
Playground underdrains	700 Lf	\$14.00	\$9,800
10" DS Pipe	240 Lf	\$31.00	\$7,440
8" DS Pipe	60 Lf	\$27.00	\$1,620
6" DS Leaders	850 Lf	\$23.00	\$19,550
Tees, Bends, etc. for DS	50 Ea	\$75.00	\$3,750
Yard Drains	6 Ea	\$2,750.00	\$16,500
12" Storm	1,720 Lf	\$35.00	\$60,200
12" Storm Culvert at Drive	84 Lf	\$47.00	\$3,948
15" Storm	783 Lf	\$42.00	\$32,886
18" Storm	72 Lf	\$49.00	\$3,528
24" Storm	1,100 Lf	\$52.00	\$57,200
30" Storm	662 Lf	\$66.00	\$43,692
Catch Basin curb inlet	11 Ea	\$3,700.00	\$40,700
Catch Basin curb inlet 12'	1 Ea	\$6,500.00	\$6,500
Catch Basin 2-2B	3 Ea	\$1,350.00	\$4,050
Rip Rap at outlets	165 Tons	\$150.00	\$24,750
Storm manholes	3 Ea	\$2,700.00	\$8,100
72" Storm manholes	1 Ea	\$6,800.00	\$6,800
60" Storm manholes	1 Ea	\$5,200.00	\$5,200
Storm Outlet Control Structure	2 Ea	\$7,000.00	\$14,000
30" Headwalls	2 Ea	\$1,650.00	\$3,300
24" Headwalls	1 Ea	\$1,450.00	\$1,450
15" Headwalls	2 Ea	\$950.00	\$1,900
Premium Stone Backfill	7,300 Tn	\$19.00	\$138,700
Storm Clean, Flush, Test, & CCTV	4,421 Lf	\$4.25	\$18,789



Brecksville-Broadview Heights CSD

Brecksville, OH
Elementary School & Field House

New G.S.F.: 176,639
Estimate Type: GMP
Date: 10/29/19

\$633,178

Sanitary Extension Glenwood Trail (per Civil Narrative)

8" Sewer in pavement - Glenwood Trail	350 Lf	\$135.00	\$47,250
4' manhole	1 Ea	\$4,200.00	\$4,200
Traffic Control	1 Ls	\$6,500.00	\$6,500
Tie into Ex Manhole	1 Ea	\$4,500.00	\$4,500
Test and Camera Pipe	350 Lf	\$4.00	\$1,400

\$63,850

Oakes Road Widening

Staking	1 Ls	\$4,500.00	\$4,500
Clearing	1 Ls	\$3,500.00	\$3,500
Cuts to grade	1,010 Cy	\$9.50	\$9,595
1650x11 Prep (avg 1.5 cut)	2,016 Sy	\$1.75	\$3,528
Oakes Road Asphalt Roadway (9") /Base	18,150 Sf	\$6.87	\$124,636
Joint fabric were the new meets existing	550 Sy	\$32.27	\$17,750
Sawcut Clean Trim Edge	1,650 Lf	\$7.00	\$11,550
Striping Thermo Plastic ODOT	1 Ls	\$12,000.00	\$12,000
Chairback Curb	1,650 Lf	\$28.00	\$46,200
Curb Drain	1,650 Lf	\$14.75	\$24,338
Signage	1 Ls	\$2,500.00	\$2,500
12" RCP (Budget Qty Only)	400 Lf	\$45.00	\$18,000
Curb Inlets (Budget Qty Only)	6 Ea	\$4,200.00	\$25,200
Test and Camera storm	400 Lf	\$4.25	\$1,700
Traffic Control Barrels/Cones	1 Ls	\$7,000.00	\$7,000
Traffic Signal - Allowance	1 Ls	\$225,000.00	\$225,000
Seeding	1 Ls	\$5,200.00	\$5,200

\$542,196

Value Engineering Ideas

Brecksville-Broadview Heights CSD
Elementary School & Field House
GMP

Fieldhouse Total - Hard Cost Estimate	\$	7,331,538
Fieldhouse Total - Hard Cost Budget	\$	7,342,836
Fieldhouse Budget Difference - (over) / under	\$	11,298
Fieldhouse VE ACCEPTED	\$	-
Alternates Added Back Into Base Bid	\$	-
No Additional VE Required (Fieldhouse)	\$	11,298 Under Budget

Overall Budget Difference (over)/under:	\$222,964.35
Overall VE Options Available:	\$291,570.80

		VE Savings	(A)ccept (R)eject		Planned (A)lternate	Comments
<i>FH</i>	Exterior Windows & Doors					
1	Eliminate translucent panels at gym in their entirety	\$ 76,000	r			
<i>FH</i>	Athletics					
1	Eliminate the 2 cross-court gym divider curtains	\$ 14,625	r			
2	Eliminate the retractable Batting Cage	\$ 15,000	r			
3	Reduce the number of basketball backstops by 4 each (8 remain)	\$ 24,480	r			

TOTAL POTENTIAL VE SAVINGS (FIELDHOUSE) \$ 130,105

TOTAL ACCEPTED VE SAVINGS (FIELDHOUSE) \$ - **POTENTIAL ALTERNATES \$ -**

Elementary School Total - Hard Cost Estimate	\$	36,672,460
Elementary School Total - Hard Cost Budget	\$	36,884,126
Elementary School Budget Difference - (over) / under	\$	211,666
Elementary School VE ACCEPTED	\$	-
Alternates Added Back Into Base Bid	\$	-
No Additional VE Required (Elementary School)	\$	211,666 Under Budget

		VE Savings	(A)ccept (R)eject		Planned (A)lternate	Comments
<i>Elem</i>	Exterior Closure					
1	Eliminate hexagon pattern at split face CMU (courtyard west elevation) - std split face instead	\$ 9,595	r			
<i>Elem</i>	Interior Windows & Doors					
1	Revise decorative lites (hexagon) in doors to narrow lites throughout	\$ 21,600	r			
<i>Elem</i>	Interior Finishes					
1	Eliminate clouds in Dining E100. Eliminate vertical soffit at the ACT2C shown in GMP documents. Entire ceiling in this space to be ACT2C (no height change).	\$ 77,483	r			
2	Revise partial areas of ACT-1C in Collaborative areas D100, D120, C100, C120, D200, D220, C200, and C220 to ACT-1.	\$ 7,809	r			
3	ACT-1 in lieu of ACT-1C in Maker A112.	\$ 1,264	r			

Elem	Specialties/Fittings					
1	Eliminate Acrylic Entry Timeline Signage per A930.2	\$	4,820	r		
2	Eliminate Student Dining Vinyl Wall Graphic in Corridor E1C01 per A930.2	\$	5,515	r		
3	Eliminate Vinyl Wall Hexagons in corridors, collaobation areas, etc. throughout	\$	23,850	r		
4	Eliminate Custom vinyl wings	\$	2,410	r		
5	Eliminate Vinyl PK Wall Graphic	\$	2,120	r		
6	Eliminate Vinyl PK Floor Graphic/ Sensory Path	\$	5,000	r		

TOTAL POTENTIAL VE SAVINGS (ELEMENTARY SCHOOL) \$ 161,466

TOTAL ACCEPTED VE SAVINGS (ELEMENTARY SCHOOL)	\$ -	POTENTIAL ALTERNATES	\$ -
---	------	----------------------	------

GMP EXHIBIT D & E – SCHEDULE



GMP EXHIBIT F – STAFFING PLAN



Shook Construction Staffing Plan		2018				2019				2020				2021				2022																																				
		Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22					
		Preconstruction																										Site Clearing																										
		Elementary Building & Field House Construction																																																				
		Closeout																																																				
Staffing Plan (HOURS)		Month #01	Month #02	Month #03	Month #04	Month #05	Month #06	Month #07	Month #08	Month #09	Month #10	Month #11	Month #12	Month #13	Month #14	Month #15	Month #16	Month #17	Month #18	Month #19	Month #20	Month #21	Month #22	Month #23	Month #24	Month #25	Month #26	Month #27	Month #28	Month #29	Month #30	Month #31	Month #32	Month #33	Month #34	Month #35	Month #36	Month #37	Month #38	Month #39	Month #40	Month #41	Month #42	Month #43	Month #44	Month #45	Month #46	Month #47	Month #48	Construction				
Position	Name																																																	Hours	Total			
Principal In Charge	Chris Halapy	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	720	\$	-		
Project Executive	Matt Huelsman	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	480	\$	-
Community Engagement	Matt Danis	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	480	\$	-
Project Manager	Eric Gradert	16	16	16	16	16	16	16	16	16	16	16	32	32	85	85			85	120	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	4357	\$	270,134.00
Superintendent	Joe Lammlein	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			8	32	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	4192	\$	326,976.00	
Project Engineer	Mackenzie Kaser												85	85	85				173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	85	85	85	85	4838	\$	232,224.00	
Co-op	TBD																																																0					
Safety Coordinator	Mike Behnken															10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	260	\$	-
Accounting	Norman May															10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	260	\$	15,600.00
Job Cost Coordinator	Susie Hoover	8	8	8	8	8	8	8	8	8	8	8	8	8	8	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	1040	\$	45,760.00	
Scheduler	Eric Kramer					16	40					16	16	40	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	624	\$	23,712.00		
BIM/VDC Manager	Theresa Van Skyock																16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	416	\$	18,720.00		
Pre-Con Manager	Keith Bruner	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8																																	0	\$	-			
K-12 Estimator	Jenny Naas	40	40	40	40	40	40	40	40	40	40	40	40	40	40	60	60	60	60																														0	\$	-			
Civil Estimator	Dave Warner	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																															0	\$	-			
MEP Estimating	Staff	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*																																	0	\$	-			
TOTAL		146	146	146	146	162	186	146	146	146	146	162	263	336	360	218	218	156	422	481	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	141	141	141	141	0	\$	933,126.00

General Conditions						
Construction Bonds	1	\$	208,786.00	\$	208,786.00	
Temporary Facilities	22	\$	2,600.00	\$	57,200.00	
Job Site Trailer	22	\$	1,800.00	\$	39,600.00	
Office & Janitorial supplies	22	\$	1,600.00	\$	35,200.00	
Office communications, equipment, printing, postage, photos	22	\$	2,000.00	\$	44,000.00	
Office first aid, fire protection, safety, signage	1	\$	12,780.00	\$	12,780.00	
Project site progress and final cleaning	22	\$	2,275.00	\$	50,050.00	
Dumpsters	22	\$	3,500.00	\$	77,000.00	
Construction fence, access points, washout areas	22	\$	4,000.00	\$	88,000.00	
Subtotal				\$	612,616.00	

GMP EXHIBIT G – SUBCONTRACTOR WORK SCOPES



Bid Package Plan

3A	Building and Site Concrete
4A	Masonry
5A	Structural Steel
6A	Carpentry & Specialties
6B	Casework & Architectural Woodwork
7A	Roofing
8B	Glass & Glazing (Including Door Operators)
9A	Studs, Drywall, and Acoustics
9B	Flooring
9D	Painting
11A	Food Service Equipment
12A	<i>Loose Furnishings (future bid event)</i>
13A	Pre-Engineered Metal Building
14A	Elevator
21A	Fire Suppression
22A	Plumbing
23A	Heating, Ventilating, & Air Conditioning (HVAC)
26A	Electrical
27A	Communications
31A	Building Sitework & Utilities
32A	Asphalt Paving

List of Potential Subcontractors for Prequalification

BP **Bid Package Scope**

3A **Building and Site Concrete**

- Platform Cement
- Cleveland Cement
- Xtreme Elements
- North Coast Concrete
- Donley's

4A **Masonry**

- Valentine Contractors, Inc
- Foti Construction
- LMR Construction Co., Inc
- Lencyk Masonry

5A **Structural Steel**

- Forest City Erectors
- Mull Iron
- Amthor Steel
- Selinsky Force
- Columbia
- Livi Steel
- Industrial First
- Kelley Steel Erectors
- Dover Tank and Plate

6A **Carpentry & Specialties**

- T Allen
- OCP Contractors, Inc
- Oppenheim Construction
- Beaver Constructors
- Western Reserve Interiors
- Meridian Construction
- Gleeson
- Patriot
- Bolton-Pratt
- J&B Acoustical

6B **Casework & Architectural Woodwork**

- Farnham Equipment
- Stonecreek Interior Systems
- Custom Fab
- Bedford Cabinet
- Reserve Millwork

7A **Roofing**

- Warren Roofing
- Industrial First
- Willham Roofing
- Kalkreuth
- Advanced Roofing
- Boak and Sons
- Northeast Ohio Roofing

8B Glass & Glazing (Including Door Operators)

- Carroll Glass
- Bonfert Glass
- Pioneer Glass and Glazing
- RC Glass – Ritenour Group
- Imperial Glazing Concepts
- Lorain Glass
- Glass Inc
- J&B Acoustical
- Environmental Glass
- Capital Aluminum

9A Studs, Drywall, and Acoustics

- OCP Contractors, Inc
- Giorgi Interior Systems, Inc
- Canton Floors Inc.
- Western Reserve Interiors
- Oppenheim Construction
- J&B Acoustical

9B Flooring

- The Company, Inc
- Messina Flooring
- Corcoran Tile and Marble, Inc
- Youngstown Tile
- Cincinnati Floor Company
- Sports Flooring
- Architectural Floors of Cleveland
- Owen's Flooring
- Patella Carpet and Tile
- Commercial Interior Resources
- Corporate Floors
- Flooring Specialties
- Floorstiles, Inc.
- Interfinish

9D Painting

- Dependable Painting
- Frank Novak and Sons
- Mike McGarry and Sons
- Shuler Painting
- Thomarios
- Masterpiece
- Summit Painting
- Diversified Painting
- Yerman & Young
- Guist Decorators, Inc.

11A Food Service Equipment

- Johnson-Lancaster
- TriMark SS Kemp
- CT Design
- Breckenridge
- Burkett Restaurant
- Rizzi Food Distributors
- Wasserstrom
- Dubick Fixture and Supply

- 12A Loose Furnishings**
- Continental Furniture
 - Tom Sexton & Associates
 - Martin Public Seating
 - Ohio Desk
- 13A Pre-Engineered Metal Building**
- Brookpark Builders
 - Selinsky Force
 - Stevens Engineering
 - Foundation Steel
 - Rudolph Libbe
- 14A Elevator**
- Schindler Elevator Corporation
 - Thyssen Krupp
 - Otis
 - Kone
- 21A Fire Suppression**
- S.A. Comunale, Inc.
 - Fire Foe
 - RNL Fire
 - Fox Fire
 - Diversified Piping
 - American Fire
 - Lorig Mechanical
 - Bassett Sprinkler Protection Inc.
- 22A Plumbing**
- Smith & Oby Company
 - John F. Gallagher
 - T.H. Martin
 - Commerce Plumbing
 - Conti
 - Neptune Plumbing
 - Miller Plumbing
 - Northern Ohio Plumbing
- 23A Heating, Ventilating, & Air Conditioning (HVAC)**
- K Company
 - Smith & Oby Company
 - Castle Heating and Cooling
 - Synergy
 - T.H. Martin
 - Conti
 - Whisler/Metal Masters
- 26A Electrical**
- Einheit Electric Construction
 - Lake Erie Electric
 - Speelman Electric
 - Zenith Systems
 - Hilcher-Clark Electric
 - Harrington Electric

- Thompson Electric
- PJ Ellis Electric

27A Communications

- Einheit Electric Construction
- Lake Erie Electric
- Speelman Electric
- Zenith Systems
- US Communications
- Southeast Security
- Harrington Electric

31A Building Sitework & Utilities

- Sitetech, Inc
- Independence Excavating
- Platform Cement
- DiPietro Excavating
- Precision Engineering
- Beaver Constructors
- Great Lakes Construction

32A Asphalt Paving

- Infinity Paving
- Cunningham Paving
- Premier Asphalt
- Carron Asphalt
- Cook Paving and Construction

Subcontractor Scopes of Work

BP **Bid Package Scope**

3A **Building and Site Concrete**

Related specifications:

032000 Concrete Reinforcement
033000 Cast-In-Place Concrete
051200 Structural Steel Framing
052100 Steel Joist Framing
053100 Steel Decking
055113 Metal Pan Stairs
071113 Bituminous Dampproofing
072100 Thermal Insulation
072600 Vapor Retarders
107516 Ground-Set Flagpoles
114800 Gym equipment
124813 Entrance Floor Mats and Frames
312000 Earth Moving
321313 Concrete Paving

General scope of work:

Scope to include Excavation for concrete foundations, installation of concrete foundations, slab on grade concrete, slab on deck concrete, precast concrete, formed and poured in place concrete, geofoam, vapor barriers, thermal insulation, Damp proofing, Concrete Sealing, Installation of embedded steel, concrete paving, concrete curbing, walks, tactile warning surfaces.

4A **Masonry**

Related specifications:

042000 Unit Masonry
051200 Structural Steel Framing
052100 Steel Joist Framing
055000 Metal Fabrications
071113 Bituminous Dampproofing
072119 Foamed-In-Place Insulation
072500 Weather Barriers
072713 Modified Bituminous Sheet Air Barriers
072726 Air Barriers
079200 Joint Sealants
140210 Traction Elevators
Division 21 Fire Suppression
Division 22 Plumbing
Division 23 HVAC
Division 26 Electrical
Division 27 Communications
Division 28 Electronic Safety and Security

General scope of work:

CMU, Brick Veneer, Spray Foam Insulation, Through Wall Flashing, Damp proofing, Thermal Insulation, air barrier, joint sealants.

5A Structural Steel

Related specifications:

033000 Cast-In-Place Concrete
051200 Structural Steel Framing
052100 Steel Joist Framing
053100 Steel Decking
054000 Cold Formed Framing
055000 Metal Fabrications
055100 Metal Stairs, Handrails, and Guardrails
114800 Gym Equipment

General scope of work:

Scope to include furnishing embedded steel for masonry, structural steel, steel erection, steel joists, metal decking, metal stairs, metal railings, catwalks, bollards, perimeter cable, bridging, ladders/cages.

6A Carpentry & Specialties

Related specifications:

034900 Glass-Fiber-Reinforced Concrete (GFRC)
061000 Rough Carpentry
061600 Sheathing
078100 Applied Fireproofing
078413 Penetration Fire stopping
078446 Fire-Resistive Joint Systems
079200 Joint Sealants
079219 Acoustical Joint Sealants
081113 Hollow Metal Doors and Frames
081416 Flush Wood Doors
083113 Access Doors and Frames
083313 Coiling Counter Doors
083323 Steel Overhead Coiling Doors
084113 Aluminum Framed Entrances & Storefronts
085113 Aluminum Windows
087100 Door Hardware
087120 Door Weatherstrips and Thresholds
088000 Glazing
101100 Visual Display Surfaces
101146 Visual Display Fabrics
101200 Display Cases
101419 Dimensional Letter Signage
101423 Panel Signage
102113.19 Plastic Toilet Compartments

102123 Cubicle Curtains and Track
 102238 Operable Partitions
 102600 Wall and Door Protection
 102800 Toilet and Bath Accessories
 104413 Fire Protection Cabinets
 104416 Fire Extinguishers
 105113 Metal Lockers
 105123 Plastic Laminate Clad Lockers
 105613 Metal Storage Shelving
 107500 Flagpole
 112130 Slatwall Panel Systems
 113100 Residential Appliances
 114250 Art Ventilation Equipment and Art Kilns
 114800 Scorekeeping Systems
 115213 Projection Screens
 116143 Stage Curtains and Equipment
 116623 Gymnasium Equipment
 116653 Gymnasium Dividers
 116700 Educational Equipment
 121230 Art Hanging and Display Systems
 122413 Roller Window Shades
 129300/323300 Site Furnishings
 281300 Access Control System

General scope of work:

Scope to include Rough & Finish Carpentry, Wood Blocking, Hollow Metal Doors & Frames, Coiling Doors/Grillers, Overhead Doors, Access Doors, Door Hardware, Toilet/Shower Partitions, Toilet Accessories, Fire Extinguishers & Cabinets, Marker/Tack Boards, Interior & Exterior Signage, Metal Lockers, Gym Equipment, , Caulking & Sealants, Corner Guards, Roller Shades, Divider Curtains, Wall Pads, Stage Curtains, Caulking, FRP, Kiln, Sensory Swing, Appliances, playground equipment, Display Cases and Systems

6B Casework & Architectural Woodwork

Related specifications:

062023 Interior Finish Carpentry
 064023 Interior Architectural Woodwork
 123216 Manufactured Plastic Laminate Faced Wood Casework
 123623.13 Plastic Laminate Clad Countertops
 123661.16 Solid Surfacing Countertops
 12600 Custom Cushions for Built In Bench Seating
 Division 22 Plumbing
 Division 23 HVAC
 Division 26 Electrical

General scope of work:

Scope to include furnish and installation of all fixed and mobile casework, counter tops, fume hoods, caulking.

7A Roofing

Related specifications:

061053 Misc. Rough Carpentry
072500 Weather Barriers
076200 Vapor Barriers
075423 TPO Roofing
076200 Sheet Metal Flashing and Trim
077129 Roof Expansion Joints
077200 Roof Accessories
077253 Snow Guards
079200 Joint Sealants
221316 Building Sanitary and Waste Vent Piping
235100 Breechings, Chimneys, and Stacks

General scope of work:

Scope to include shingled roof, vented base, TPO roof, downspouts, roof access hatches, thermal insulation, vapor barriers, Coping Metals, Expansion Joints, Flashings.

8B Glass & Glazing (Including Door Operators)

Related specifications:

072500 Weather Barriers
072600 Vapor Retarders
084113 Aluminum-Framed Entrances and Storefronts
084126 All-Glass Entrances and Storefronts
084413 Glazed Aluminum Curtainwall System
085113 Aluminum Windows
087100 Door Hardware
087120 Door Weatherstrips and Thresholds
088000 Glazing
Division 6 Wood, Plastics, and Composites
281300 Access Control System

General scope of work:

Scope to include Aluminum Storefronts, Aluminum Curtain Wall, Aluminum Windows, Translucent Panel Windows, Interior glazing, Caulking/Sealants

9A Walls, Drywall, and Acoustics

Related specifications:

054000 Cold-Formed Metal Framing
054000 Cold-Formed Metal Trusses
061053 Miscellaneous Rough Carpentry
061600 Sheathing
064023 Interior Architectural Woodwork
072100 Thermal Insulation

074213.19 Insulated Metal Wall Panels
074600 Fiber Cement Board Siding
079500 Expansion Control
092216 Non-Load Bearing Metal Framing
092900 Gypsum Board
095113 Acoustical Panel Ceilings
097720 Decorative Fiberglass Reinforced Wall Panels
098433 Sound-Absorbing Wall Units
098436 Sound-Absorbing Ceiling Units
099113 Interior Painting
102239 Folding Panel Partitions
104413 Fire Extinguisher Cabinets

General scope of work:

Scope to include fiber cement panels, metal wall panels, insulation, air barrier, temporary enclosure, metal framing, drywall installation and finishing, acoustical ceiling grid and acoustical ceiling tiles, Acoustical Wall Panels, Acoustical wall treatments, Ceiling Reflector Panels, caulking/sealants.

9B Flooring

Related specifications:

079200 Joint Sealants
092900 Gypsum Board
093013 Ceramic Tiling
096210 Fluid-Applied Sports Flooring
096513 Resilient Base and Accessories
096516 Resilient Sheet Flooring
096519 Resilient Tile Flooring
096566 Resilient Athletic Flooring
096723 Resinous Flooring
096766 Fluid- Applied Athletic Flooring
096813 Tile Carpeting
096816 Sheet Carpeting

General scope of work:

Scope to include walk off carpet, carpet, sheet vinyl, resinous flooring, sealed concrete, rubber flooring, stair treads/risers, fluid applied sports floor, resilient base, quarry tile, ceramic tile.

9D Painting

Related specifications:

055000 Metal Fabrications
078123 Intumescent Fireproofing
079200 Joint Sealants
079219 Acoustical Joint Sealants
097200 Acoustical Wall Coverings
097200 Wall Coverings
099113 Exterior Painting

099123 Interior Painting
099300 Staining and Transparent Finishing
099600 High-Performance Coatings

General scope of work:

Scope to include all painting of CMU walls, Drywall Walls, Exposed Metal Decking, Exposed Conduits, Exposed Ducts, Exposed Structural Steel, Exposed Steel Railings, Catwalks, Application of intumescent fire stopping, joint sealants, vinyl

11A Food Service Equipment

Related specifications:

079200 Joint Sealants
114000 Food Service Equipment
Division 3 Cast-Place-Concrete
Division 9 Finishes
Division 21 Fire Suppression
Division 22 Plumbing
Division 23 HVAC
Division 26 Electrical
Division 27 Communications
Division 28 Electronic Safety & Security

General scope of work:

Scope to include cooler & freezer, complete furnish/install of custom serving lines, all kitchen appliances, all kitchen storage racks/carts/shelves,

12A Loose Furnishings

Related specifications:

Future bid event

General scope of work:

Future bid event

13A Pre-Engineered Metal Building

Related specifications:

055000 Metal Fabrications
072100 Thermal Insulation
072119 Foamed-In-Place Insulation
072500 Weather Barriers
072600 Vapor Retarders
074116 Insulated Metal Roof Panels
076200 Sheet Metal Flashing and Trim
077253 Snow Guards

078413 Penetration Firestopping
078446 Fire-Resistive Joint Systems
079200 Joint Sealants
079219 Acoustical Joint Sealants
133419 Metal Building Systems

General scope of work:

Furnish and installation of pre-engineered metal building, insulated metal wall and roof panels, support steel, secondary trim members.

14A Elevator

Related specifications:

140210 Traction Elevator
Division 21 Fire Suppression
Division 22 Plumbing
Division 23 HVAC
Division 26 Electrical
Division 27 Communications
Division 28 Electronic Safety & Security

General scope of work:

Scope to include furnish and installation of elevators.

21A Fire Suppression

Related specifications:

033000 Cast-In-Place Concrete
078413 Penetration Fireproofing
083113 Access Doors and Frames
210500 Common Work Results for Fire Suppression
211313 Wet Pipe Sprinkler Systems
312000 Earth Moving

General scope of work:

Scope to include building fire suppression system, backflow, sprinkler heads.

22A Plumbing

Related specifications:

033000 Cast-In-Place Concrete (housekeeping pads)
078413 Penetration Firestopping
078446 Fire-Resistive Joint Systems
079200 Joint Sealants
083113 Access Doors and Frames (if required)
220500 Common Work Results for Plumbing

- 220513 Common Motor Requirements for Plumbing
- 220516 Expansion Fittings and Loops for Plumbing
- 220519 Meters and Gages for Plumbing
- 220523 General-Duty Valves for Plumbing Piping
- 220529 Hangers and Supports for Piping and Equipment
- 220553 Identification for Plumbing Piping and Equipment
- 220700 Plumbing Insulation
- 221116 Domestic Water Piping
- 221119 Domestic Water Piping Specialties
- 221123 Domestic Water Pumps
- 221123.13 Domestic Water Packaged Booster Pumps
- 221316 Sanitary Waste and Vent Piping
- 221319 Sanitary Waste Piping Specialties
- 221323 Sanitary Waste Interceptors
- 221413 Facility Storm Drainage Piping
- 221423 Storm Drainage Piping Specialties
- 221429 Sump Pumps
- 221513 Facility Natural Gas Piping
- 223400 Fuel-Fired Domestic Water Heaters
- 224000 Plumbing Fixtures
- 224700 Water Coolers
- 312000 Earth Moving

General scope of work:

Scope to include domestic water piping, sanitary piping, gas piping, acid waste piping, acid waste tank, grease interceptor tank, toilet fixtures, sinks, water coolers, insulation, drains, cleanouts, caulking/fire stopping, and plumbing systems equipment.

23A Heating, Ventilating, & Air Conditioning (HVAC)

Related specifications:

- 033000 Cast-In-Place Concrete (housekeeping pads)
- 078413 Penetration Firestopping
- 078446 Fire-Resistive Joint Systems
- 083113 Access Doors and Frames
- 230500 Common Work Results for HVAC
- 230513 Common Motor Requirements for HVAC Equipment
- 230516 Expansion Fittings and Loops for HVAC Piping
- 230519 Meters and Gages for HVAC Piping
- 230523 General-Duty Valves for HVAC Piping
- 230529 Hangers and Supports for HVAC Piping and Equipment
- 230548 Vibration Controls for HVAC Piping and Equipment
- 230553 Identification for HVAC Piping and Equipment
- 230593 Testing, Adjusting, and Balancing for HVAC
- 230700 HVAC Insulation
- 230800 Mechanical Systems Commissioning
- 230900 Instrumentation and Control for HVAC
- 232113 Hydronic Piping
- 232123 Hydronic Pumps
- 232300 Refrigerant Piping

232500 HVAC Water Treatment
233113 Metal Ducts
233116 Fabric Ducts
233300 Air Duct Accessories
233423 HVAC Power Ventilators
233600 Air Terminal Units
233713 Diffusers, Registers, and Grilles
233715 Louvers
233723 HVAC Gravity Ventilators
235100 Breechings, Chimneys, and Stacks
235216 Condensing Boilers
237410 Packaged Rooftop HVAC Units
238126 Split-System Air-Conditioners
238233 Hot Water Radiators
238239 Unit Heaters

General scope of work:

Scope to include hydronic piping, condensate piping, refrigerant piping, low voltage control wiring, building automated controls system, Air Distribution Equipment (RTUs, ARUS, ACCU, FPVAVs, Split Systems, Boilers, Pumps, Unit Heaters, Etc), Duct work, Coordination Drawings, Caulking/fire-stopping, Kitchen Hoods, Louvers/Grilles, Water/Chemical Treatment, Testing and Balancing,

26A Electrical

Related specifications:

033000 Cast-In-Place Concrete (housekeeping pads)
078413 Penetration Firestopping
083113 Access Doors and Frames
140210 Traction Elevator
260500 Basic Electrical Materials and Methods
260513 Conductors and Cables
260519 Medium Voltage Cables
260526 Grounding and Bonding
260533 Raceways and Boxes
260536 Cable Trays
260553 Electrical Identification
260573 Overcurrent Protective Device Coordination
260923 Lighting Control Devices
260924 Low-Voltage Lighting Control System
261219 Pad-Mounted, Liquid-Filled, Medium Voltage Transformers
261810 Medium-Voltage Overhead Distribution
262200 Dry-Type Transformers (600V and less)
262413 Switchboards
262416 Panelboards
262419 Motor Controllers
262713 Electricity Metering
262726 Wiring Devices
262813 Fuses
262816 Enclosed Switches
263213 Packaged Engine Generator

- 263600 Transfer Switches
- 264113 Lightning Protection for Structures
- 265100 Interior Lighting
- 265600 Exterior Lighting
- 270500 Common Work Results for Communications
- 271100 Communications Equipment Room Fittings
- 271300 Communications Backbone Cabling
- 271500 Communications Horizontal Cabling
- 272100 Data Communications Network Equipment
- 273123 VOIP Telephone System
- 274119 Integrated Audi-Visual Systems
- 275121 Student Dining Audio System
- 275122 Central Sound and Paging System
- 275124 Gymnasium Audio System
- 275125 Vocal and Instrumental Music Audio Recording and Playback System
- 275127 Classroom Sound Reinforcement System
- 275313 Clock Systems
- 275320 Distributed Antenna System
- 280500 Common Work Results for Electronic Safety and Security
- 280513 Conductors and Cables for Electronic Safety and Security
- 281300 Access Control System
- 281600 Intrusion Detection System
- 282300 IP Based Video Surveillance System
- 283111 Fire Alarm and Detection System
- Division 14 Conveying Equipment
- Division 22 Plumbing
- Division 23 HVAC
- Division 27 Communications

General scope of work:

Scope to include grounding/bonding, raceways & boxes for all systems, cable trays, feeder & distribution wiring, light fixtures, lighting control, electrical devices, power distribution, generator with ATS, fire alarm system, motor controllers, equipment connections, generator, scoreboard, traffic signalization, and cable tray.

27A Communications

Related specifications:

- 033000 Cast-In-Place Concrete (housekeeping pads)
- 078413 Penetration Firestopping
- 083113 Access Doors and Frames
- 140210 Traction Elevator
- 260500 Basic Electrical Materials and Methods
- 260513 Conductors and Cables
- 260519 Medium Voltage Cables
- 260526 Grounding and Bonding
- 260533 Raceways and Boxes
- 260536 Cable Trays
- 260553 Electrical Identification
- 260573 Overcurrent Protective Device Coordination
- 260923 Lighting Control Devices

260924 Low-Voltage Lighting Control System
 261219 Pad-Mounted, Liquid-Filled, Medium Voltage Transformers
 261810 Medium-Voltage Overhead Distribution
 262200 Dry-Type Transformers (600V and less)
 262413 Switchboards
 262416 Panelboards
 262419 Motor Controllers
 262713 Electricity Metering
 262726 Wiring Devices
 262813 Fuses
 262816 Enclosed Switches
 263213 Packaged Engine Generator
 263600 Transfer Switches
 264113 Lightning Protection for Structures
 265100 Interior Lighting
 265600 Exterior Lighting
 270500 Common Work Results for Communications
 271100 Communications Equipment Room Fittings
 271300 Communications Backbone Cabling
 271500 Communications Horizontal Cabling
 272100 Data Communications Network Equipment
 273123 VOIP Telephone System
 274119 Integrated Audi-Visual Systems
 275121 Student Dining Audio System
 275122 Central Sound and Paging System
 275124 Gymnasium Audio System
 275125 Vocal and Instrumental Music Audio Recording and Playback System
 275127 Classroom Sound Reinforcement System
 275313 Clock Systems
 275320 Distributed Antenna System
 280500 Common Work Results for Electronic Safety and Security
 280513 Conductors and Cables for Electronic Safety and Security
 281300 Access Control System
 281600 Intrusion Detection System
 282300 IP Based Video Surveillance System
 283111 Fire Alarm and Detection System
 Division 14 Conveying Equipment
 Division 22 Plumbing
 Division 23 HVAC
 Division 27 Communications

General scope of work:

Scope to include traffic signalization, cable tray, communication backbone, cabling, network equipment, telephone, AV, central sound, audio equipment, clocks, DAS, access control, intrusion detection, CCTV.

31A Building Sitework & Utilities

Related specifications:

311000 Site Clearing
 312000 Earth Moving

312513 Erosion Control
321816.13 Playground Protective Surfacing
323113 Chain Link Fences and Gates
330510 Utilities Services
330513 Manholes and Structures
331116 Site Water Utility Distribution Piping
333100 Sanitary Utility Sewage Piping
334100 Storm Utility Drainage Piping
335100 Natural Gas Distribution

General scope of work:

Scope of work to include all SWPPP, clearing and grubbing, mass excavation, grading, water line service, stone base, storm sewer, sanitary sewer, fencing, site underdrains, final grading & seeding, gas line relocation, water line relocation, including road widening, landscaping.

32A Asphalt Paving

Related specifications:

311000 Site Clearing
312000 Earth Moving
312319 Dewatering
321216 Asphalt Paving
321723 Pavement Markings
323113 Chain Link Fences and Gates
329200 Turf and Grasses
334600 Subdrainage

General scope of work:

Scope of work asphalt paving, road paving, striping.

GMP EXHIBIT H – CM'S SELF-PERFORMED WORK



GMP EXHIBIT H | CM'S SELF-PERFORMED WORK

Shook Construction does not intend to self-perform any work on this project

GMP EXHIBIT I – SCHEDULE OF ALLOWANCES



GMP EXHIBIT I | SCHEDULE OF ALLOWANCES

The following are included allowances in the GMP:

1. \$5,000.00 Temporary dewatering for foundation installation
2. \$15,000.00 Utility pole and guy wire removal at Oaks Road
3. \$356,028.00 Unsuitable soils remediation for known and unknown conditions and locations
4. \$68,350.00 Takeoff items under the heading 'Sanitary Extension Glenwood Trail'
5. \$542,196.00 Takeoff items under the heading 'Oakes Road Widening'
6. \$1,569,280.00 Furnishings shall be designed to the furnishings allowance which is \$25,000 for the fieldhouse and \$100,000 + \$10/sf of school (\$1,544,280) based on DD VE. Scope of the fieldhouse furnishings budget, shall include loose furnishings, portable tip and roll bleachers, portable team benches, scorer's tables, and portable teaching stations shown on A350. The scope of the school furnishings allowance shall include, loose furnishings, the playground equipment, relocated playground equipment, and site furnishings (trash receptacles, tables, benches, twig benches, etc.), residential appliances, shelving. These items are not included in the estimate except through this allowance.

GMP EXHIBIT J – SCHEDULE OF UNIT PRICES



GMP EXHIBIT J | SCHEDULE OF UNIT PRICES

The following categories of unit prices included in the GMP. The actual unit price will be identified at the time of bid.

1. _____ SY Cement stabilization at 6%, 12" depth
2. _____ SY Lime stabilization at a single lift / (1) time

GMP EXHIBIT K - SCHEDULE OF ALTERNATES



GMP EXHIBIT K | SCHEDULE OF ALTERNATES

The following are the included bid alternates. The actual alternate pricing will be determined at the time of bid.

M-1	TBD	Provide two air rotation units in lieu of the single base bid unit. (does not affect the gas load)
S-1	TBD	Increase the K-5 playground area from the 125' x 65' estimate to the 250' x 65' shown (including playground fibers and fencing).
S-2a	TBD	Add all work associated with the east driveway to Blossom (grading, pavement, berms, storm, lighting, etc.)
S-2b	TBD	Additional work to add the 125' x 24' wide continuation of the east drive to Blossom that is not shown but is described in the Civil narrative as Driveway Plan B.
S-3	TBD	Add 3 additional Automated Gates w/ Vertical Arm.
S-4	TBD	Add color premium to site concrete at courtyard and select areas noted on landscape drawings. No colored concrete in base bid.
S-5	TBD	Additional plantings: 525 ea #2 grasses, 350 ea #1 grasses, 175 ea #1 perennials
S-6	TBD	Add premium grass mixes at storm water management basin (wildflower meadow, wet basin, stormwater basin, woodland edge seed).
S-7	TBD	Ornamental fence in lieu of vinyl coated chain link at Outdoor Dining and PK Play area.
A-1	TBD	Add custom signage: Stair Tread Graphics per A930.2, Media Center Soffit Vinyl Wall Graphic per A930.2, Student Dining Soffit Vinyl Wall Graphic per A930.2, Vinyl Window Graphic - Media, Vinyl Stair Identification Signage
A-2	TBD	Add motorized shades to storefront areas in A113 Media and E100 Student Dining
A-3	TBD	Add 4 goal assemblies in the Fieldhouse increasing the total quantity to 16.
A-4	TBD	Add acoustical wall panels in Fieldhouse increasing the typical assembly from 4'x16' to 4'x20' per bay.
CM-1	\$15,000.00	Shook to provide (24) months of 24/7 live stream web camera with time lapse capability through Multivista.
C-1	TBD	Sole source SEC for manufacturer of phone systems.
C-2	TBD	Sole source Video Insite and VI Monitor Plus for monitoring and cameras.
C-3	TBD	Single source Bohgan for P/A system.
M-1	TBD	Sole source Trane equipment.

GMP EXHIBIT L – SCHEDULE OF INCENTIVES



GMP EXHIBIT L | SCHEDULE OF INCENTIVES

There are no incentives in effect for this project.