

PROJECT MINUTES

Project:	New W. Edward Balmer Elementary School	Project No.:	17020
Prepared by:	Joel Seeley	Meeting Date:	3/19/19
Re:	School Building Committee Meeting	Meeting No:	40
Location:	High School Media Center	Time:	6:30pm
Distribution:	School Building Committee Members, Attendees (MF)		

Attendees:

PRESENT	NAME	AFFILIATION	VOTING MEMBER
✓	Joseph Strazzulla	Chairman, School Building Committee	Voting Member
✓	Melissa Walker	School Business Manager	Voting Member
✓	Alicia Cannon	Representative of the Board of Selectmen	Voting Member
✓	Michael LeBrasseur	Chairman, School Committee	Voting Member
✓	Paul Bedigian	Representative of the Building, Planning, Construction Committee	Voting Member
✓	Steven Gogolinski	Representative of the Finance Committee	Voting Member
✓	Jeffrey Tubbs	Community Member with building design and/or construction experience	Voting Member
	Peter L'Hommedieu	Community Member with building design and/or construction experience	Voting Member
	Jeff Lundquist	Community Member with building design and/or construction experience	Voting Member
	Andrew Chagnon	Community Member with building design and/or construction experience	Voting Member
	Spencer Pollock	Parent Representative	Voting Member
✓	Adam Gaudette	Town Manager	Non-Voting Member
✓	Dr. Catherine Stickney	Superintendent of Schools	Non-Voting Member
✓	Richard Maglione	Director of Facilities	Non-Voting Member
✓	Karlene Ross	Principal, W. Edward Balmer Elementary School	Non-Voting Member
✓	Jill Healy	Principal, Northbridge Elementary School	Non-Voting Member
✓	Gregory Rosenthal	Director of Pupil Personnel Services	Non-Voting Member
✓	Amy McKinstry	Director of Curriculum	
	Lee Dore	D & W, Architect	
✓	Thomas Hengelsberg	D & W, Architect	
✓	David Fontaine	Fontaine Bros, CM	
✓	David Fontaine, Jr	Fontaine Bros, CM	
✓	David Barksdale	Fontaine Bros, CM	
✓	Jim Mauer	Fontaine Bros, CM	
	Joel Kent	Fontaine Bros, CM	
✓	Joel Seeley	SMMA, OPM	

Item #	Action	Discussion
40.1	Record	Call to Order, 6:30 PM, meeting opened.
40.2	Record	J. Strazzulla announced the meeting will be video and audio recorded with live broadcast and future re-broadcast.
40.3	Record	Public Comments <ol style="list-style-type: none"> 1. Mr. Jonathan Smith asked the following questions: <ol style="list-style-type: none"> a. What is the projected student enrollment for the new school? b. Has there been a 5-year projection completed for the projected student enrollment? c. Will the new school meet the needs of the projected student enrollment?
40.4	Record	A motion was made by P. Bedigian and seconded by M. LeBrasseur to approve the 2/27/19 School Building Committee meeting minutes. Motion passed unanimous by those attending.
40.5	Record	A motion was made by P. Bedigian and seconded by J. Lundquist to approve the 3/5/19 School Building Committee meeting minutes. Motion passed unanimous by those attending.
40.6	Record	J. Seeley distributed and reviewed Designer Amendment No. 13, dated 3/19/19 for Site Acoustical Measurement services, in the amount of \$5,500.00 to be charged against ProPay Budget 0203-9900, which has a balance of \$100,000.00, attached. A motion was made by P. Bedigian and seconded by J. Lundquist to approve Designer Amendment No. 13, dated 3/19/19 and recommend signature by A. Cannon. No discussion, motion passed unanimous.
40.7	Record	J. Seeley distributed and reviewed Designer Amendment No. 14, dated 3/19/19 for Additional Soil Testing services, in the amount of \$5,280.00 to be charged against ProPay Budget 0203-0300, which has a balance of \$80,710.00, attached. A motion was made by M. LeBrasseur and seconded by S. Gogolinski to approve Designer Amendment No. 14, dated 3/19/19 and recommend signature by A. Cannon. No discussion, motion passed unanimous.
40.8	M. DiSalvo	M. DiSalvo to work with the school department to define, in the specifications, sufficient training requirements for the school department's maintenance staff, including video-taping.
40.9	T. Hengelsberg	T. Hengelsberg to confirm that the turning radii for all parking lot exits are sufficient to not force the turning car into the oncoming lane of traffic.
40.10	T. Hengelsberg	T. Hengelsberg to provide detailed cut and fill analysis, by material, with the Design Development Pricing Set for Committee review.
40.11	T. Hengelsberg	T. Hengelsberg to provide existing top soil characterization for gradient and nutrient enhancements for Committee review.
40.12	T. Hengelsberg	T. Hengelsberg to refine the sidewalk layouts for a future Committee meeting.
40.13	T. Hengelsberg	T. Hengelsberg to provide options to the routing of the 36 inch storm line for review, such as reducing the depth of the line, installing a temporary line until Phase 2, routing around the building, use of concrete piping.

Item #	Action	Discussion
40.14	T. Hengelsberg	T. Hengelsberg to provide less costly exterior building material options at the back of the school for pricing in the Design Development estimate.
40.15	T. Hengelsberg	T. Hengelsberg to provide options to the Cape Cod Berm.
40.16	T. Hengelsberg	T. Hengelsberg to provide pricing impact and more detailed product information for "SecureShade" for Committee review.
40.17	T. Hengelsberg	T. Hengelsberg to review if the 2-Hour Fire Wall and Horizontal Sliding Fire Door can be eliminated if fire-proofing was added to the Wing A-B and Wing C structure, in addition to the areas around the Egress Stairs.
40.18	T. Hengelsberg	T. Hengelsberg to provide the STC for the Stage Operable Wall with a comparison against a CMU wall.
40.19	T. Hengelsberg	T. Hengelsberg to provide a written code interpretation for their Code Consultant that the three-story shaft is not an Atrium.
40.20	Record	T. Hengelsberg distributed and reviewed the 2/27/19 Fire Department and Building Department meeting minutes, attached.
40.21	Record	T. Hengelsberg distributed and reviewed the 3/4/19 Fire Department Conference Call minutes, attached.
40.22	Record	<p>D. Fontaine Jr. distributed and reviewed the Reconciled Design Development Construction Cost Estimates from FBI and PM&C, attached. The FBI estimate reflects a construction cost of \$79,480,442 and the PM&C estimate reflects a cost of \$78,851,992, both below the construction budget of \$79,492,663.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> 1. A. Gaudette asked what caused the jump in site costs? <i>D. Fontaine Jr. indicated the increase reflects the re-distribution of a portion of the estimating contingency established in the Schematic Design phase estimate to accommodate the more detailed scope shown for the sitework in the Design Development phase drawings.</i>
40.23	J. Seeley	<p>J. Seeley distributed and reviewed the Owner's Comments to the Design Development documents, attached. Comments were received from J. Lundquist and P. L'Hommedieu.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> 1. J. Lundquist indicated the Design Development documents were well done and comprehensive for this stage of the project. 2. J. Lundquist reviewed his comments, with a focus on the top key comments. J. Lundquist indicated that several comments are Value Engineering related and that he would like to have FBI price for Committee review at the next meeting. <i>J. Seeley will coordinate with J. Lundquist, P. L'Hommedieu, D&W and FBI on which VE related comments FBI is to price for Committee review.</i> 3. J. Lundquist indicated he did not want the team to stop pursuing ideas on how to reduce the cost of the facility due to the estimate being on budget and that the budget is not the finish line. He would like the project to come in well under budget, while meeting the educational and facility goals.

Item #	Action	Discussion
		<p>4. J. Lundquist indicated his preference is to focus spending money on the items and features that the students and staff will utilize, such as those inside the building and playground equipment, and would prefer to make more economical choices on the drainage, structure, architectural, and façade elements. Many of his written Owner Review comments specifically addressed ideas and options to achieve this.</p> <p>5. J. Strazzulla reviewed an email from A. Chagnon indicating his recommendation to not accept VE items at this time, in particular to not make changes to the building exterior or landscaping.</p> <p>6. J. Lundquist stated that he disagreed with A. Chagnon about not changing the exterior and façade of the facility, when it could lead to substantial savings for the project and that the committee should vote on these ideas to confirm a consistent direction to the design team.</p> <p>7. J. Strazzulla indicated he spoke with P. L’Hommedieu who indicated several of his comments require input from the Educational Working Group, particularly the boys and girls room common sink entrance.</p> <p>8. P. Bedigian indicated he would not be in favor of changing the design for VE items, but agrees that the priced VE items should be reviewed by the Committee.</p> <p>9. A.Gaudette indicated the Committee should review the priced VE items, particularly the building exteriors related VE items.</p> <p>10. J. Lundquist asked if MSBA would be involved in the approval of VE items? <i>J. Seeley indicated no, the MSBA approved the scope and budget of the project and expects the Design Development, 60% and 90% Construction Documents submissions to be in alignment with the approved scope and budget. All VE items that the Committee accepts will need to be identified in each submission.</i></p>
40.24	D. Fontaine Jr.	<p>D. Fontaine Jr. reviewed the potential scope of pre-construction surveys to be performed prior to construction commencement on surrounding abutter properties, attached. Properties within 250 feet of blasting operations will be surveyed by law, currently no blasting is anticipated. Properties adjacent to construction operations are at the discretion of the Owner to survey.</p> <p>Committee Discussion:</p> <p>1. J. Strazzulla asked if the discretion properties are the properties on the west side of Mason Road from Crescent Street up to approximately Kerry Lane? <i>D. Fontaine Jr. indicated yes.</i></p> <p>2. J. Lundquist asked if the properties adjacent to the new water main to N. Main Street should be added to the discretion properties list? <i>D. Fontaine Jr. will review and provide direction.</i></p> <p>D. Fontaine Jr. will submit a price proposal for the discretion properties survey at the next Committee meeting for approval.</p>
40.25	J. Seeley	<p>J. Seeley distributed and reviewed the draft 60% Construction Documents Meetings and Agenda Schedule, attached.</p>

Item #	Action	Discussion
		<ol style="list-style-type: none"> A. Cannon indicated the Town Meeting is scheduled for 5/7/19 and the Town Election is scheduled for 5/21/19. <i>J. Seeley to reschedule the SBC meetings for 5/7/19 and 5/21/19 and re-issue.</i>
40.26	T. Hengelsberg J. Strazzulla	<p>Site Permitting</p> <p>Conservation Commission</p> <ol style="list-style-type: none"> No update. <p>Planning Board</p> <ol style="list-style-type: none"> CDM, the town’s consultant, is performing the sewage capacity analysis study. T. Hengelsberg to review the staff counts relative to the amount of staff members for each grade in SPED and paraprofessionals with K. Ross and J. Healy. T. Hengelsberg reviewed using the circulation loop for event parking with the Fire Department and forwarded a plan for review. J. Strazzulla to review the parking requirements for weekend soccer with Youth Soccer. The Zoning Analysis is under review for determination on a waiver or variance process.
40.27	J. Seeley	<p>Committee Questions</p> <ol style="list-style-type: none"> K. Ross indicated the 3/5/19 Site Logistics meeting developed three outreach meetings that should occur prior to construction commencement, to review the traffic and site conditions during construction: <ol style="list-style-type: none"> New Incoming Parents Teachers Surrounding Neighborhood <p><i>J. Seeley to coordinate with K. Ross, T. Hengelsberg and J. Mauer on scheduling the meetings.</i></p> K. Ross indicated that the existing 3rd grade classrooms will be relocated to the courtyard side of the existing school to provide greater separation from the construction activities by the District.
40.28	Record	Old or New Business – None
40.29	Record	Next SBC Meeting: 3/19/19 at 6:30 pm at the High School Media Center. The anticipated agenda items are reviewing VE items and voting to submit the Design Development submission to MSBA.
40.30	Record	A Motion was made by J. Tubbs and seconded by J. Lundquist to adjourn the meeting. No discussion, motion passed unanimously.

Attachments: Agenda, Designer Amendment No. 13, Designer Amendment No. 14, 2/27/19 Fire Department and Building Department meeting minutes, 3/4/19 Fire Department Conference Call minutes, Reconciled Design Development Construction Cost Estimates from FBI and PM&C, Owner’s Comments to the Design Development documents, draft 60% Construction Documents Meetings and Agenda Schedule, Powerpoint

Project: New W. Edward Balmer Elementary School

Meeting Date: 3/19/19

Meeting No.: 40

Page No.: 6

The information herein reflects the understanding reached. Please contact the author if you have any questions or are not in agreement with these Project Minutes

PROJECT MEETING SIGN-IN SHEET

Project: New W. Edward Balmer Elementary School
 Prepared by: Joel Seeley
 Re: School Building Committee Meeting
 Location: High School Media Center
 427 Linwood Avenue, Whitinsville, MA

Project No.: 17020
 Meeting Date: 3/19/2019
 Meeting No: 40
 Time: 6:30pm

Distribution: Attendees, (MF)

SIGNATURE	ATTENDEES	EMAIL	AFFILIATION
	Joseph Strazzulla	jstrazzulla@nps.org	Chairman, School Building Committee
	Melissa Walker	mwalker@nps.org	School Business Manager, MCPPO
	Alicia Cannon	Cannonhome0927@gmail.com	Member, Board of Selectmen, CEO
	Michael LeBrasseur	mlebrasseur@nps.org	Chairman, School Committee
	Paul Bedigian	bedigianps@cdmsmith.com	Representative of the Building, Planning, Construction Committee
	Steven Gogolinski	steve@gogolinskicpa.com	Representative of the Finance Committee
	Jeffrey Tubbs	jtubbs@charter.net	Member of community with architecture, engineering and/or construction experience
	Peter L'Hommedieu	PLHommedieu@shawmut.com	Member of community with architecture, engineering and/or construction experience
	Jeff Lundquist	jlundquist@therichmondgroup.com	Member of community with architecture, engineering and/or construction experience
	Andrew Chagnon	achagnon@vertexeng.com	Member of community with architecture, engineering and/or construction experience
	Spencer Pollock	spencerpollock22@gmail.com	Parent Representative
	Adam Gaudette	agaudette@northbridgeemass.org	Town Manager
	Dr. Catherine Stickney	csticknev@nps.org	Superintendent of Schools, NPS
	Richard Maglione	rmaaglione@nps.org	Building Maintenance Local Official
	Karlene Ross	kross@nps.org	Principal, W. Edward Balmer Elementary School
	Jill Healy	jhealy@nps.org	Principal, Northbridge Elementary School
	Gregory Rosenthal	grosenthal@nps.org	Director of Pupil Personnel Services
	Lee P. Dore	lpdore@DoreandWhittier.com	Dore & Whittier Architects
	Thomas Hengelsberg	thengelsberg@DoreandWhittier.com	Dore & Whittier Architects
	David Fontaine, Sr.	DFontaine@fontainebros.com	Fontaine Bros., Inc.
	David Fontaine, Jr.	djr@fontainebros.com	Fontaine Bros., Inc.
	Mark Abdella	mabdella@fontainebros.com	Fontaine Bros., Inc.
	Jim Mauer	jmauer@fontainebros.com	Fontaine Bros., Inc.
	Joel Seeley	jseeley@smma.com	SMMA
	Amy McKinstry	amckinstry@nps.org	Dir. of Curriculum, NPS

1000 Massachusetts Avenue
 Cambridge, MA 02138
 617.547.5400

www.smma.com

Agenda

Project:	W. Edward Balmer Elementary School Feasibility Study	Project No.:	17020
Re:	School Building Committee Meeting	Meeting Date:	3/19/2019
Meeting Location:	High School Media Center 427 Linwood Avenue, Whitinsville, MA	Meeting Time:	6:30 PM
Prepared by:	Joel G. Seeley	Meeting No.:	40
Distribution:	Committee Members (MF)		

1. Call to Order
2. Public Comments
3. Approval of Minutes – February 27, 2019 and March 5, 2019
4. Approval of Invoices and Commitments
5. Review Design Development Cost Estimate
6. Review Preliminary Value Engineering
7. Owner Review Comments on Design Development Documents
8. Review Pre-Construction Survey
9. Site Permitting Update
 - Conservation Commission
 - Planning Board
10. New or Old Business
11. Committee Questions
12. Next Meeting: April 2, 2019
13. Adjourn



Project Management

Memorandum

To: W. Edward Balmer Elementary School Building Committee Date: 3/19/2019
From: Joel G. Seeley Project No.: 17020
Project: W. Edward Balmer Elementary School
Re: Designer Amendment No. 13: Site Acoustical Measurement Services
Distribution: School Building Committee (MF)

DESIGNER AMENDMENT NO. 13: SITE ACOUSTICAL MEASUREMENT SERVICES

FEE: \$5,500.00

REASON: Provide Site Acoustical Measurement Services at the W. Edward Balmer Elementary School site to include background, ambient noise sampling and measurement using data-logging recording devices and written report.

BUDGET AVAILABILITY: This Amendment would be funded out of the Other Reimbursable Costs Budget, ProPay Code 0203-9900 which has a current balance of \$100,000.00.

1000 Massachusetts Avenue
Cambridge, MA 02138
617.547.5400

www.smma.com

ATTACHMENT F

CONTRACT FOR DESIGNER SERVICES

AMENDMENT NO. 13

WHEREAS, the Town of Northbridge (“Owner”) and Dore & Whittier Architects, Inc., (the “Designer”) (collectively, the “Parties”) entered into a Contract for Designer Services for the W. Edward Balmer Elementary School Project (Project Number 201502140001) at the W. Edward Balmer Elementary School on June 26, 2017 “Contract”; and

WHEREAS, effective as of March 19, 2019, the Parties wish to amend the Contract:

NOW, THEREFORE, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to perform services for the Design Development Phase, the Construction Phases, and the Final Completion Phase of the Project, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for Basic Services:

Fee for Basic Services:

	Original Contract	Prior Amendments	This Amendment	After this Amendment
Feasibility Study Phase	\$200,000.00	\$ 141,803.50	\$ 0.00	\$ 341,803.50
Schematic Design Phase	\$225,000.00	\$ 4,950.00	\$ 0.00	\$ 229,950.00
Design Development Phase	\$ 0.00	\$1,948,899.00	\$ 5,500.00	\$ 1,954,399.00
Construction Document Phase	\$ 0.00	\$2,657,249.00	\$ 0.00	\$ 2,657,249.00
Bidding Phase	\$ 0.00	\$ 227,830.00	\$ 0.00	\$ 227,830.00
Construction Phase	\$ 0.00	\$2,252,218.00	\$ 0.00	\$ 2,252,218.00
Completion Phase	\$ 0.00	\$ 164,136.00	\$ 0.00	\$ 164,136.00
Total Fee	\$425,000.00	\$7,397,085.50	\$ 5,500.00	\$7,827,585.50

This Amendment is a result of: Provide Site Acoustical Measurement Services.

MSBA ProPay 0203-9900

3. The Construction Budget shall be as follows:

Original Budget:	\$ <u>79,492,662.00</u>
Amended Budget	\$ <u>79,492,662.00</u>

4. The Project Schedule shall be as follows:

Original Schedule:	<u>December 20, 2021</u>
Amended Schedule	<u>December 20, 2021</u>

5. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Designer have caused this Amendment to be executed by their respective authorized officers.

OWNER

Alicia Cannon
(print name)
Board of Selectmen, Town of Northbridge
(print title)
By _____
(signature)
Date March 19, 2019

DESIGNER

Lee P. Dore
(print name)
Principal / Vice President, Dore & Whittier Architects
(print title)
By _____
(signature)
Date March 19, 2019



DORE & WHITTIER
ARCHITECTS, INC.

March 14, 2019

Mr. Joel Seeley, AIA
COO, Executive Vice President
Symmes Maini & McKee Associates Project Management
1000 Massachusetts Avenue
Cambridge, MA 02138

Project: Balmer Elementary School - #17-0759

Subject: ASR #13

Dear Joel,

As we have advised the School Building Committee of the need for outdoor noise baseline measurements in order to design potential noise mitigation strategies on the building, we present this additional service request to perform that work.

In accordance with contract Article 8, please accept the following fee proposal for additional consulting services, for the lump sum fee amount as follows:

Site Noise Measurements/ Report	Acentech, Inc.	\$5,000.00
<ul style="list-style-type: none"> Background, ambient noise sampling and measurement using data-logging recording devices, and written report, as shown in attached proposal. 		

In accordance with contract Article 9, Dore & Whittier Architects hereby submits a fee for coordination of these additional services in the amount of 10%, or	\$500.00
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TOTAL, ASR #13	\$5,500.00
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Please see the attached consultant's proposal which details scope of services and schedule.
Note that all other provisions of the prime contract remain in force.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.

Architects • Project Manager

Lee P. Dore, Assoc, AIA, CSI, LEED AP, MCPPO
Principal

cc. DWA Dist.
file.

ARCHITECTS
PROJECT MANAGERS

260 Merrimac Street Bldg 7
Newburyport, MA 01950
978.499.2999 ph
978.499.2944 fax

212 Battery Street
Burlington, VT 05401
802.863.1428 ph
802.863.6955

www.doreandwhittier.com



33 Moulton Street
Cambridge MA 02138
617 499 8000
acentech.com

February 13, 2019

Tom Hengelsberg, AIA
Dore & Whittier Architects, Inc.
212 Battery Street
Burlington, VT 05401
thengelsberg@DoreandWhittier.com

Subject **Proposal for Site Noise Measurements**
Balmer Elementary School
Whitinsville, MA
Acentech Proposal No. 630263.01

Dear Tom:

Thank you for the opportunity to submit this proposal for site noise measurements for the Balmer Elementary School project in Whitinsville, MA. Our proposal is based on information from our recent email exchange and discussions with you.

The Village of Whitinsville is part of the Town of Northbridge, which does not have its own Noise Ordinance. In this case, we propose to observe the State's environmental noise regulation (MA-DEP 310 CMR 7.10), which requires that any new sources of noise at a given site do not exceed by more than 10 dB the existing ambient levels at the surrounding property lines, and places a restriction on tonal noises. Alternatively, the Town may decide to establish a different goal, such as not exceeding by more than only 5 dBA the existing ambient noise, or other. Either way, it will be necessary to perform a site noise survey to determine the existing noise levels, to be used as basis of design.

To perform this study, we will visit the site and install two to three calibrated sound level meters along the property line, to measure continuously the background noise levels for a period of several days.

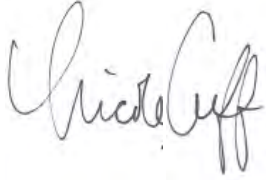
In accordance with local industry standards, we will report the measured "L90" sound levels to you as the natural ambient sound level, in terms of A-weighted decibels. The "L90" value is that which is exceeded 90% of the time during the measurement period; in other words, it represents the quietest 10% over the course of any given sound measurement period. "A-weighted decibels" are a weighted sum of sound levels across the audible frequency spectrum, with weightings based on the sensitivity of human hearing. One can think of it as a kind of "overall" noise level.

We will summarize our findings in a written report and we will use the data to propose any necessary sound barriers around exterior equipment. .

We are available to perform this study for a fixed fee of \$5,000 in accordance with the base project terms and conditions. We plan to perform this work during the summer of 2019.

If this proposal is acceptable as written, please sign in the space below and return a copy to us as authorization to begin work. Please call me at 617.499.8070 if you have any questions or would like to suggest any modifications to suit your needs better.

Sincerely,



Nicole Cuff, PE
Senior Consultant

CC: Ioana Pieleanu, Acentech

Accepted for Dore & Whittier Architects :
Name (Print): _____
Signature: _____
Date: _____



Project Management

Memorandum

To: W. Edward Balmer Elementary School Building Committee Date: 3/19/2019
From: Joel G. Seeley Project No.: 17020
Project: W. Edward Balmer Elementary School
Re: Designer Amendment No. 14: Additional Soil Testing Services for Stormwater Drainage Design
Distribution: School Building Committee (MF)

DESIGNER AMENDMENT NO. 14: ADDITIONAL SOIL TESTING SERVICES FOR STORMWATER DRAINAGE DESIGN

FEE: \$5,280.00

REASON: Provide Additional Soil Testing Services at the W. Edward Balmer Elementary School site for purposes of stormwater drainage design to include soil testing to determine the seasonal high groundwater elevations, soil texture and estimated permeability rates within areas of the proposed infiltration components of the stormwater management system.

BUDGET AVAILABILITY: This Amendment would be funded out of the Geotechnical and GeoEnvironmental Services Costs Budget, ProPay Code 0204-0300 which has a current balance of \$80,710.00.

1000 Massachusetts Avenue
Cambridge, MA 02138
617.547.5400

www.smma.com

ATTACHMENT F

CONTRACT FOR DESIGNER SERVICES AMENDMENT NO. 14

WHEREAS, the Town of Northbridge (“Owner”) and Dore & Whittier Architects, Inc., (the “Designer”) (collectively, the “Parties”) entered into a Contract for Designer Services for the W. Edward Balmer Elementary School Project (Project Number 201502140001) at the W. Edward Balmer Elementary School on June 26, 2017 “Contract”; and

WHEREAS, effective as of March 19, 2019, the Parties wish to amend the Contract:

NOW, THEREFORE, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to perform services for the Design Development Phase, the Construction Phases, and the Final Completion Phase of the Project, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for Basic Services:

Fee for Basic Services:

	Original Contract	Prior Amendments	This Amendment	After this Amendment
Feasibility Study Phase	\$200,000.00	\$ 141,803.50	\$ 0.00	\$ 341,803.50
Schematic Design Phase	\$225,000.00	\$ 4,950.00	\$ 0.00	\$ 229,950.00
Design Development Phase	\$ 0.00	\$1,954,399.00	\$ 5,280.00	\$ 1,959,679.00
Construction Document Phase	\$ 0.00	\$2,657,249.00	\$ 0.00	\$ 2,657,249.00
Bidding Phase	\$ 0.00	\$ 227,830.00	\$ 0.00	\$ 227,830.00
Construction Phase	\$ 0.00	\$2,252,218.00	\$ 0.00	\$ 2,252,218.00
Completion Phase	\$ 0.00	\$ 164,136.00	\$ 0.00	\$ 164,136.00
Total Fee	\$425,000.00	\$7,402,585.50	\$ 5,280.00	\$7,832,865.50

This Amendment is a result of: Provide Additional Soil Testing Services for Stormwater Drainage Design.

MSBA ProPay 0204-0300

3. The Construction Budget shall be as follows:

Original Budget:	\$ <u>79,492,662.00</u>
Amended Budget	\$ <u>79,492,662.00</u>

4. The Project Schedule shall be as follows:

Original Schedule:	<u>December 20, 2021</u>
Amended Schedule	<u>December 20, 2021</u>

5. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Designer have caused this Amendment to be executed by their respective authorized officers.

OWNER

Alicia Cannon
(print name)
Board of Selectmen, Town of Northbridge
(print title)
By _____
(signature)
Date March 19, 2019

DESIGNER

Lee P. Dore
(print name)
Principal / Vice President, Dore & Whittier Architects
(print title)
By _____
(signature)
Date March 19, 2019



DORE & WHITTIER
ARCHITECTS, INC.

March 14, 2019

Mr. Joel Seeley, AIA
COO, Executive Vice President
Symmes Maini & McKee Associates Project Management
1000 Massachusetts Avenue
Cambridge, MA 02138

Project: Balmer Elementary School - #17-0759

Subject: ASR #14

Dear Joel,

As we have need for additional soil testing for purposes of stormwater drainage design, we present this additional service request to perform that work.

In accordance with contract Article 8, please accept the following fee proposal for additional consulting services, for the lump sum fee amount as follows:

Soil Testing/ Report	Nitsch Engineering, Inc.	\$4,800.00
<ul style="list-style-type: none"> • Perform soil testing to determine the seasonal high groundwater elevations, soil texture, and estimated permeability rates within areas of the proposed infiltration components of the stormwater management system; • Coordinate with the Town of Northbridge's Conservation Commission and/or Planning Board; • Prepare Title 5 soil logs for submission with the Stormwater Report; • Provide a sketch or proposed test pits; and • Coordinate with the Client the timing and locations of the soil testing 		

In accordance with contract Article 9, Dore & Whittier Architects hereby submits a fee for coordination of these additional services in the amount of 10%, or \$480.00

TOTAL, ASR #14 \$5,280.00

Please see the attached consultant's proposal which details scope of services and schedule.
Note that all other provisions of the prime contract remain in force.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.

Architects • Project Manager

Lee P. Dore, Assoc, AIA, CSI, LEED AP, MCPPO
Principal

cc. DWA Dist.; file.

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March 4, 2019

Mr. Thomas Hengelsberg, AIA, LEED AP, MCARB, MCPPO
Project Manager
Dore & Whittier
212 Battery Street
Burlington, VT 05401

RE: Nitsch Proposal #12260.3P
Balmer Elementary School
Additional Services
Soil Testing
Northbridge, MA

Dear Tom,

Nitsch Engineering is pleased to submit this Additional Services proposal to you (the Client) for professional civil engineering services associated with performing soil testing for drainage design at the Balmer Elementary School in Northbridge, MA. This letter summarizes our scope, assumptions, schedule, and fee.

SCOPE OF ADDITIONAL SERVICES

1. Perform two (2) days of soil testing to determine the seasonal high groundwater elevations, soil texture, and estimated permeability rates within areas of the proposed infiltration components of the stormwater management system, soil testing to be performed by a Registered Soil Evaluator;
2. Coordinate with the Town of Northbridge's Conservation Commission and/or Planning Board to determine who, if anyone, needs to observe the soil testing;
3. Prepare Title 5 soil logs for submission with the Stormwater Report;
4. Provide a sketch or proposed test pits; and
5. Coordinate with the Client the timing and locations of the soil testing.

Nitsch Engineering assumes the Client and/or Town of Northbridge will provide an excavator and provide dig safe for the site and proposed excavation area(s).

COMPENSATION

Compensation for the Additional Services provided will be in accordance with the Standard Contract Terms of Nitsch Engineering's executed agreement with the Client, dated June 29, 2017. The costs for these services is \$4,800.00 and will be billed on a lump sum basis. Costs will not be incurred by Nitsch Engineering beyond this amount without verbal approval from the Client. Expenses are included in the above-listed fees.

Should the conditions of this Additional Services proposal meet with your approval, please sign the Client Authorization section below and return this Additional Services proposal to us for our files. If Nitsch Engineering is authorized to commence and/or continue providing its services on the project, either verbally or in writing, prior to the full execution of a written contract, such authorization will be deemed an acceptance of this Additional Services proposal, and all such services will be provided and compensated for in accordance with the terms and conditions contained herein as though this Additional Services proposal were fully executed by the Client.

Mr. Thomas Hengelsberg, AIA, LEED AP, MCARB, MCPPO:
Nitsch Proposal #12260.3.P (Additional Services)
March 4, 2019
Page 2 of 2

If you have any questions, please call.

Very truly yours,

Nitsch Engineering, Inc. :



Sandra A. Brock, PE, CFM, LEED AP BD+C
Vice President and Chief Engineer

SAB/

Q:\12260 Balmer Elem\Contract\05 Additional Services\12260 AS - Soil Testing.docx

CLIENT AUTHORIZATION

This Additional Services proposal is hereby accepted by the Client as evidenced by the execution hereof, and such a person so executing the same on behalf of the Client does hereby warrant full authority to act for, in the name of, and on behalf of the Client.

Such acceptance provides full authorization for Nitsch Engineering to proceed with providing the Scope of Additional Services under the terms and conditions stated herein.

Signature

Date

Printed Name and Title



Owner Design Review Comments

Project Name: W. Edward Balmer Elementary School, Whitinsville, Massachusetts
Project Number: 17020
Document Reviewer: Peter L'Hommedieu, Jeff Lundquist
Project Phase: Design Development
Reviewed Date: February 21, 2019
Discipline: All Disciplines

DESIGN REVIEW NOTES

Item	SBC Member	DWG/Spec	Design Development		60% Construction Documents		90% Construction Documents	
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
1.	Peter L'Hommedieu		What is the plan for method of ledge removal, more specifically what method is being used knowing the close proximity of private property houses and the existing school?					
2.	Peter L'Hommedieu	A1.70 A1.71	Per drawing A1.70 & A1.71, Common boys and girls bathrooms have shared sink areas, it appears it would be very easy for boys and/or girls to accidentally go into the wrong side. How is this going to be managed when there are no actual doors or ability to police this? What is the benefit of shared sink areas? This layout concerns me especially in areas where adults could be using these same bathrooms.					
3.	Peter L'Hommedieu	C3.02	Per drawing C3.02, what is the need for the roadway at the northeast corner of the site going to the north field? Is this required for emergency vehicles or a convenience? If not required can it be deleted or simplified?					

Item	SBC Member	DWG/Spec	Design Development		60% Construction Documents		90% Construction Documents	
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
4.	Peter L'Hommedieu	C3.02 E0.03	Per drawing C3.02 & E0.03, why are so many islands needed in the West parking lot? It appears they are not all needed for lighting? If some are for esthetic reasons and not needed can they be deleted to save money, add parking spots, and make snow removal more efficient?					
5.	Peter L'Hommedieu	C6.07	Per drawing C6.07, in lieu of the modular block retaining wall on the east side of the site, would it be more cost effective to do a cast in place concrete retaining wall?					
6.	Peter L'Hommedieu	L4.20	Per drawing L4.20, detail 11, footings seem excessive for simple concrete stairs.					
7.	Peter L'Hommedieu	L4.30	Per drawing L4.30, can backstops and/or fencing be change to galvanized system and not vinyl clad system to save cost?					
8.	Peter L'Hommedieu	A4.01	Per drawing A4.01, can the exterior façade finishes on the North and/or East sides be simplified or changed to a less expensive material such as split face block or jumbo bricks to reduce costs? Or expand the use of current masonry systems in these areas.					
9.	Peter L'Hommedieu	A9.60	Per drawing A9.60, can the budget support the density of fixed storage shown?					
10.	Peter L'Hommedieu	K1.00	Per drawing K1.00, is any equipment being salvaged from the current schools?					
11.	Peter L'Hommedieu	K1.13	Per drawing K1.13, per kitchen (storage room, cooler, and freezer), what duration of food stores were the sizes of these spaces designed to accommodate?					

Item	SBC Member	DWG/Spec	Design Development		60% Construction Documents		90% Construction Documents	
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
12.	Peter L'Hommedieu	E1.11	Per drawing E1.11, do you have more information on light fixture types LRD2, LRD3, and LRD4?					
13.	Peter L'Hommedieu	Specifications Volume 1, Section 004101	Per volume 1 of the specifications, section 00 41 01, will the CM create modified bid forms with their scope clarifications/instructions or separate sections with clarifications/instructions for each Trade Contractor to include in their bids? Can we economize the amount of islands in the parking areas? Can we economize the retaining wall on the east of the facility - while it looks nice, I'd rather spend the \$\$ inside the building? I'd like to see utility (or jumbo) brick instead of modular used - what is the cost differential? Can we see an option to use split-face block (used at base of NHS) instead of cast-stone on the base of the facility. We should consider having a hoist on the roof, so we don't need to bring in a crane/boom truck to hoist any materials needed for maintaining our equipment. What would the deductive cost be to utilize standard fire doors instead of the automatic accordion door at the three locations? I'm concerned about the screen wall - if we were able to only use it where it was truly needed acoustically, it could provide a significant savings in terms of not just the wall, but all of the					
14.	Jeff Lundquist							
15.	Jeff Lundquist							
16.	Jeff Lundquist							
17.	Jeff Lundquist							
18.	Jeff Lundquist							
19.	Jeff Lundquist							
20.	Jeff Lundquist							

Item	SBC Member	DWG/Spec	Design Development		60% Construction Documents		90% Construction Documents	
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
21.	Jeff Lundquist		structure to withstand the moment implied by wind & drift loadings. I've seen Acentech be very conservative in the past – how do we ensure we are not being overly conservative in our screen wall design?					
22.	Jeff Lundquist		I'm concerned about snow-drift between CL H.5 and J.5. Would it make more sense to raise the elevation of the roof to stay consistent with the adjoining roofs? This could potentially allow us to reduce the size of the steel members (avoid drifts) and prevent mechanical units from getting buried by snow (and NPS staff from having to clear them). The exterior wall details specifically waterproofing details aren't quite developed yet. I'd like to minimize sealant joints between dissimilar materials and use membranes wherever possible (it's not always possible). I do not foresee NPS spending future operational dollars on re-sealing joints when sealants can fail in 5-10 years.					
23.	Jeff Lundquist		Has the low voltage designers confirmed that the runouts from the tele/data closets are short enough to maintain performance? It looks like there are several runs in excess of 250LF, which in many cases is the limit.					
24.	Jeff Lundquist		Have the BMS panels for each rooftop unit been located? Do they fit? Are their runouts short enough to maintain performance?					

Item	SBC Member	DWG/Spec	Design Development		60% Construction Documents		90% Construction Documents	
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
25.	Jeff Lundquist		Are we sure the electric room by code doesn't need to be rated?					
26.	Jeff Lundquist		Are we sure the electric room by code isn't considered a "vault" requiring a 3-hour separation with no GWB construction?					
27.	Jeff Lundquist		Can we see an option to economize the stair 5 lightwell? As designed we'd be spending a lot of money in the lightwell (fire rated curtain wall), and while it's nice, I don't see it as being core to the academic mission.					
28.	Jeff Lundquist		Can we delete mock-ups and go with benchmarks (that stay) instead? While mock-ups have value, for this facility I'd rather save the money and do an early benchmark that stays.					
29.	Jeff Lundquist		We have an awful lot of cameras shown (70+) – Is this many really needed? Can we actually manage the data this will create?					
30.	Jeff Lundquist		Do we have roof davits included for maintenance tie-off points?					
31.	Jeff Lundquist		I believe the drainage design (particularly in the parking areas) can be economized, especially if islands can be deleted. There may be redundant drainage in the northwest parking lot.					
32.	Jeff Lundquist		Why are we showing construction fencing on the west side of the facility, then going all the way up the utility easement? I'd think the fence on the west side could be shortened (the hill is a substantial barrier), and for the short					

Item	SBC Member	DWG/Spec	Design Development		60% Construction Documents		90% Construction Documents	
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
33.	Jeff Lundquist		duration we're in the utility easement, the erosion (silt) fence should be adequate. Could we consider using no curbs at some of the locations that cape-cod berms are shown (away from sidewalks)? Most streets in town have no curbs at all. Where we have sidewalks, we should use granite though.					
34.	Jeff Lundquist	C3.05	C3.05 – Typically I see the established benchmarks identified on civil control drawings – I couldn't find it.					
35.	Jeff Lundquist	Civil	Civil – I assume all inverts / cover on all storm lines have been checked					
36.	Jeff Lundquist	C7.01	C7.01 – On the catch basin and storm manhole details, I didn't see finger (perforated) drains called for. Without them you end up with the permanent "wet spot" during construction and afterwards. When I was working for a site contractor, we would always add these in as change order #1 (they benefit everyone), and if the client didn't want to pay for them, we'd install them anyway because it saved us from rework.					
37.	Jeff Lundquist	AP1.00	AP1.00 – On the phasing plan, should we include the construction of the rear (north) soccer field in an early season? I believe the school district wanted to have one grassy area for the kids to play on during construction, and this could provide that area, providing that logistics could be in place to allow it to safely happen.					

Item	SBC Member	DWG/Spec	Design Development		60% Construction Documents		90% Construction Documents	
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
38.	Jeff Lundquist	A1.13	A1.13 – change wording of divider curtain to partition					
39.	Jeff Lundquist	A Series	A series – With the restrooms with external sinks, I think they'd work great up to about 3rd grade. I'd think we'd want traditional restrooms for the 5th graders (and potentially 4th), especially as some of the female students at that age may be starting their cycles and want a private place to wash hands.					
40.	Jeff Lundquist	Structural	Structural – In other states I've seen the structural designers be required to identify the most robust area of the facility for pupils and staff to "shelter" in if a tornado is near (without declaring the area "tornado safe" – as the design codes in this area are not intended for that). It would be good for the school district's emergency planning to know this information.					
41.	Jeff Lundquist		I was having trouble finding if cages are required on the fire protection in the gymnasium and cafeteria. I trust they are.					
42.	Jeff Lundquist	Plumbing	Plumbing – the amount of rain leaders seems excessive. In some cases I wonder if it will be possible to achieve the required pitch with some of the long runs in the building. Would it be more cost effective to run more of the rain leaders directly to the perimeter?					
43.	Jeff Lundquist		Could the perimeter drainage system in some areas be eliminated and just use sheet-flow to a catch basin?					
44.	Jeff Lundquist		I was having trouble finding the wall finishes in the					

Item	SBC Member	DWG/Spec	Design Development		60% Construction Documents		90% Construction Documents	
			Comment	Designer Response	Comment	Designer Response	Comment	Designer Response
45.	Jeff Lundquist	Structural	Structural – please confirm the operating weights of the rooftop equipment were used in the structural calculations in lieu of the “shipping” weights. As simple as this seems, I’ve seen this missed, causing structural rework.					
46.	Jeff Lundquist		It seems like there is very limited roof piping & ductwork, which may make this a moot point. Please confirm that the structural engineer has considered rooftop ductwork and piping in his structural calculations. (I’ve seen this missed too...)					
47.	Jeff Lundquist	Structural	Structural – Are we comfortable with piping being hung from joists as some details do show? It can be done, but I’ve seen joists get compromised. Typically this is a condition we try to avoid, and use wide flanges or channels when we have to hang piping of any decent size.					
48.								
49.								
50.								
51.								
52.								



DORE & WHITTIER
ARCHITECTS, INC.

REGULATORY MEETING MINUTES DD-2

DATE OF MEETING: February 27, 2019

PROJECT: W. EDWARD BALMER ES

PROJECT NO.: 17-0759

SUBJECT: CODE OFFICIALS PROGRESS MEETING – DD #2

ATTENDING: Tom Hengelsberg – DWA Chief David White, NFD
 Tim Mullen – DWA James Sheehan, Building Inspector
 Jason Rioux – Garcia
 Galuska DeSousa (EE)

ITEM	MINUTES	ACTION/ WHO	STATUS/ DATE
02-1	Review of the updated Code Analysis: Tim Mullen briefly reviewed the code analysis which he distributed to the two officials in 8.5x11 format (copied directly from the drawing set), and stated that there have been very few changes to any of the code assumptions, fire protection features, or egress features of the building since the Schematic Design submission. Mainly the design team has been further developing the same features that were presented in the SD phase.		Closed.
02-2	Fire wall construction details review: T. Mullen stated the fire wall is 12" reinforced CMU construction, freestanding, and separates the structure into two "separate buildings".		Closed.
02-3	"Won-Door" horizontal -acting fire-rated door in fire wall: Tim Mullen explained that the Won-Door is a straight-tracked, steel accordion construction, single-acting horizontal automatic fire door in the fire wall at all three levels. It is being used because the school wants to have the entire corridor open with no obstructions such as columns and door posts across the corridor, which are head-injury hazards. Jim Sheehan asked if they are within the allowable opening size of the fire wall: DWA to research. Tim explained the operation, the push-to-open function, and the programmed width of the opening. Both Chief White and Jim Sheehan had concerns about the maintenance of such a door type: the battery backup system, the tracks, the mechanism all need to be tested and functioning properly at all times. They had other questions about how it is fixed to the floor, its operation, time to close, etc. Tim stated it is designed to withstand the air currents that are present in a fire situation.	DWA to confirm max allowable fire wall opening size. DWA to provide product literature and maintenance procedure documents to the AHJs.	Open.
02-4	Classroom Doors: The officials asked about classrooms doors. Tom Hengelsberg stated that these doors are intended to be solid core wood, half-glass elevation, with 18" wide glass sidelights. This design is desired to maintain openness and visual contact between the classrooms and the extended learning areas, where students will sometimes be stationed. Both officials had concerns about the glass openings in terms of an active shooter situation, and would prefer solid doors with a narrow vision panel and a minimal sidelight.	DWA to revisit door opening design with the Working Group.	Open.

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02-5	Rating of Stair 5: Tim Mullen stated that the design for the main central stair with a fire-rated glazing system has not changed significantly. The system is aluminum mullions with steel reinforcement, and fire-rated glazing units. It is a UL-listed and tested system for 1 hour rating (there is also a 2-hour system). There are three equal manufacturers listed in the specification.	DWA to provide example product literature for the glazing system.	Open.
02-6	Platform (" Stage ") Features: Tom Hengelsberg noted the platform is not a true stage due to proscenium opening size and lack of true fly space. It is planned to have LED lighting, and a fire-retardant treated side-opening curtain. TH noted the platform has a horizontal-acting mobile partition at its rear, which opens it to the Gymnasium for larger presentations and assemblies. Chief White asked if the partition closes automatically when the fire alarm is activated. TH did not think this is required by code, but will verify maximum fire area of the contiguous spaces.	DWA to verify code requirements of large opening between Platform and Gym.	Open.
02-7	Sprinkler System Design: TH submitted reduce-sized copies of VAV International's FP series drawings from the DD pricing set, which show the riser diagram and basic representative floor plans of the main layout. FD connection locations were discussed, and Chief White had some technical concerns and said he wanted to have another conversation with the FP engineer before making a decision on that. Two provisional locations were discussed: on the south wall adjacent to Stair 1, and on the northeast corner adjacent to Stair 4. He said the FDC locations are also related to the exterior hydrant locations, so he wants to look at the whole picture.	DWA to set up conference call with VAV International (FP Engineers). Nitsch (Civil Engineers) and Chief White.	Open.
02-8	Kitchen Plan: Jim Sheehan urged the team to submit the kitchen plan to the Board of Health as soon as possible once the design is completed, as this agency has experienced longer response times.	DWA to submit to BOH as soon as possible.	Open.
02-9	Light Well in Media Center: Tom Hengelsberg reviewed the 3-story light well design, open at the bottom to the Media Center, pointing out the code provisions in the analysis that state it is allowable due to absence of combustibles in the space. He reviewed the 1-hour rating of glazed openings and the fact that there are no communicating openings at the upper stories. Chief White pointed out that the skylight at the top of the light well might be an excellent smoke vent point for the whole building, and wondered aloud if the skylight could be equipped with a smoke vent on a fusible link.	DWA to research smoke vent requirements of the code as related to this building design.	Open.
02-10	Elevator Size: Tim Mullen pointed out that there is one elevator, centrally located, and the elevator cab is sized to fit an ambulance gurney per the Code.		Closed.
02-11	Evacuation of Wheelchair-Bound Individuals: There was a discussion of how to evacuate wheelchair-bound students on levels 2 and 3 during a fire alarm condition. DWA's initial plan would be to station students and teachers on the opposite side of the fire wall, at the Won-Door, from the side the fire is on, and await evacuation by the fire department, either using the elevator on FD Operation key, or physical evacuation using the evac chairs the FD already owns, via the stairs. Jim Sheehan pointed out that it is impossible to tell where the fire is located in a general alarm situation (unless there is obvious smoke on one side of the wall and not on the other). DWA will explore how much space can be garnered on stair tower terminal landings for areas of refuge. TH clarified these are not required by code due to the sprinkler system being in place. But as a practical matter these might be the best places to station students in wheelchairs for the highest level of protection.	DWA to study areas of refuge in stair enclosures. NFD to continue to consider this or other means of evacuation, such as students and their teachers sheltering in place in classrooms.	Open.
02-12	Discharge Points at Building Exterior: Chief White stated that all exit stair discharges and all egress doors at grade will have a concrete walk to the public way, which will be maintained and plowed in winter. TM indicated this is the case in the plans currently.		Closed.

02-13	Discharge from Stair #1 into Lobby: Jim Sheehan questioned the code compliance of having Stair 1 discharge into the Main Lobby Corridor #1102, which is an unrated, unprotected space. Tim Mullen pointed out that the discharge is directly adjacent to the exit door to the outside.	DWA to research specific code language that allows this condition and report back.	Open.
02-14	Building BDA (First Responder Radio Signal Booster) System: Chief White inquired about the inclusion of a BDA system in the project, which Jason Rioux confirmed is part of the specification currently. There was discussion about some of the specific requirements, which GGD will incorporate. The building will be pre-wired for BDA, and tested to determine the final location of repeater stations once it is substantially completed.	GGD to confirm specific system requirements with NFD radio specialist/ consultant/ vendor.	Open.
02-15	Knox Boxes: Chief White requested a <u>new</u> total of three (3) Knox Boxes: <ul style="list-style-type: none"> • One at the Main Entrance (just to the right of Lobby #1101) south side • One <u>added</u> at the Boiler Room/Sprinkler Room #1131 double door to the exterior, east side courtyard • One at the double discharge doors from Corridor #1238 on the north side of the building. 	DWA to include in documents.	Closed.
02-16	Fire Alarm System and Detection: Jason Rioux reviewed some of the features of the FA system: duct smokes, CFM limits, CO detectors and notification, etc. No technical comments from the AHJs, but both agreed they want red-colored devices throughout the building.		Closed.
02-17	Roof Access: The AHJs asked about roof access. Tim Mullen responded that Stair 2 goes all the way to the roof above the third level, with walk-out door access, and that there will be a hatch access to the low roof at the kitchen and service area, accessed by steel ladder from the Recycling Room #1154.		Closed.
02-18	Plumbing Fixture Count: Jim Sheehan asked about the plumbing count. Tim replied that the fixture count is actually a bit over the minimum code requirements, due to the TRs in Pre-K and K classrooms. There will be bottle-filling stations on all high-low drinking fountains.		Closed.
02-19	Standby Generator and Fuel Type: Chief White asked what the fuel type for the gen-set will be. TH recounted the discussion with the Working Group, and the team ended up back at diesel after considering natural gas. The Chief pointed out that many installations are going with propane, which he has seen recently, and that the exhaust would probably be cleaner. The downside is the tank and where to put it.	DWA/ GGD to inquire about cost of propane installation and efficiency versus diesel.	Open.
02-20	Storage of Landscape Maintenance Equipment: Chief White pointed out that there can be no storage of gasoline-powered equipment within the building, and the School needs to figure out (summer and winter) how landscaping, plowing, and snow-blowing will be accomplished. Will a storage building be needed, or will the equipment come on a trailer from a central location?	DWA to discuss with the District.	Open.
02-21	Next Meeting: The design team will book a meeting with the AHJ's in early CD phase (early May '19 time frame) to address the questions brought up at this meeting and provide progress review. Jim said he may start to get some of his other inspectors involved at the next stage, to get them familiar with the project.		Closed.

BALMER – AHJ/ CODE REVIEW MTG – DD#2
February 27, 2019
Page 4 of 4

The above is intended to be an accurate summation of this meeting. Please contact me with any additions, deletions, and/or corrections, for incorporation into these minutes. After 10 days, we will accept these minutes as an accurate summary of our discussion and enter them into the permanent record of the project.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.
Architects ■ Project Managers

Tom Hengelsberg, AIA
Project Manager

c: Attendees
Consultant Team distribution
File



DORE & WHITTIER
ARCHITECTS, INC.

REGULATORY MEETING MINUTES DD-3

DATE OF MEETING: March 4, 2019

PROJECT: W. EDWARD BALMER ES

PROJECT NO.: 17-0759

SUBJECT: FIRE PROTECTION SYSTEMS CONFERENCE CALL – DD #3

ATTENDING: Tom Hengelsberg – DWA
 Tim Mullen – DWA
 Frank Stramaglia – VAV International (FP E)
 Peter Razdim – VAV International (Plumb E)
 Jarrett Zube – Nitsch Engineering (Civil E)
 Chief David White, NFD

ITEM	MINUTES	ACTION/ WHO	STATUS/ DATE
03-1	General review of the sprinkler plan: Tom Hengelsberg and Frank Stramaglia gave a very brief overview of the current status of the Fire Protection drawings, which include a riser diagram, floor plans showing main trunk locations and typical room branching line diagrams, standpipes in all stairs except Stair 5, and some typical details. 11 x 17 drawings were transmitted to Chief White on 2/27/19. Tom noted the architectural plan still has to be massaged to get the door to the Boiler Room clear of the sprinkler valve assembly.	DWA to continue plan revisions.	Open.
03-2	Size of Water Line: Referring to the highlighted civil drawing C5.00 pdf, Jarrett Zube noted that the water supply loop main in the new drive is 8", and a 4" supply comes in to the building for potable water parallel with a 6" line for fire protection. Due to the distance from the street and the size of the building and sprinkler system, the Chief requested that the 8" line be changed to 10" to provide plenty of volume. He noted the loop is connected to a 10" in Crescent Street and a 12" in North Main Street.	Nitsch to change 8" line to 10"	Closed.
03-3	Fire Protection Site Plan, FDCs and Hydrant Locations: Tom referred to the civil drawing C5.00 highlighted to show the water supply lines, existing and proposed hydrants, and proposed (provisional) locations of Fire Dept. Connections (FDCs) on the building: on the south wall adjacent to Stair 1, and on the northeast corner adjacent to Stair 4. Frank stated that given the adequate pressure and volume of water at the site [hydrant test conducted during the Feasibility Study], he did not have any issues technically with putting the FDCs anywhere the Chief wants them – he can make it work. Discussion turned to hydrant locations and their relationship to FDCs. The Chief stated he was somewhat concerned with the dead-end hydrant on the west side, but it will be acceptable, and the others are good. After some discussion, it was decided to move the southeast hydrant a bit further south, and to add a fourth hydrant on the northwest corner of the building. This way all four corners are covered. The northeast FDC is fine where it is shown, but the South FDC may need to move east nearer to the Kitchen to be close enough to the hydrant.	DWAVAV/Nitsch will work out final locations based on mutual coordination, and technical and code considerations. Suggested locations are shown on the attached plan with markups from the meeting in orange.	Open.

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BALMER – AHJ/ CODE REVIEW MTG – DD#3

March 4, 2019

Page 2 of 2

03-4	<p>Parking Overflow Plan: Tom Hengelsberg described the proposed "Overflow Parking Plan" being developed for the rare occasions when the normal parking lots cannot handle attendance at special events. Additional spaces could be gained by parallel parking vehicles along the outside of the access road around the school, leaving the inside lane as the drive lane and Fire Lane, and with no parking any time at the curved corner sections of the driveway to allow plenty of turning room for fire apparatus. The car drop-off and bus drop-off lanes would be Fire Lanes on the front of the building. The Chief stated he would like to look at the plan before rendering an opinion or ruling on it.</p>	DWA to forward parking/circulation plan and overflow plan to the Chief. (Attached)	Open.
03-5	<p>Next Meeting: The design team will book a meeting with the AHJ's in early CD phase (early May '19 time frame) to address the questions brought up on this call and provide progress review. All agreed as to the fire protection design, the next steps will be detailed review of hydraulic calculations for the sprinkler system, construction details, and confirm final location of hydrants.</p>		Closed.

The above is intended to be an accurate summation of this meeting. Please contact me with any additions, deletions, and/or corrections, for incorporation into these minutes. After 10 days, we will accept these minutes as an accurate summary of our discussion and enter them into the permanent record of the project.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.
Architects ■ Project Managers

Tom Hengelsberg, AIA
Project Manager

Attachments

cc: Attendees
Consultant Team distribution
File

**SCHOOL BUILDING COMMITTEE
W. EDWARD BALMER ELEMENTARY SCHOOL**

All meetings held at the
High School Media Center at 6:30 PM
unless otherwise noted

MEETINGS SCHEDULE AND AGENDAS

March 15, 2019

DATE	AGENDA
60% Construction Documents Phase	
April 17, 2019	CONSERVATION COMMISSION HEARING NO. 1 - DATE TBD
April 23, 2019	PLANNING BOARD HEARING NO. 1 - DATE TBD
April 24, 2019	BUILDING COMMITTEE MEETING - WEDNESDAY Review Overall Construction Document Phase Schedule Review 60% Construction Document Schedule Review Design Refinements Site Permitting Update
May 1, 2019	CONSERVATION COMMISSION HEARING NO. 2 - DATE TBD
May 7, 2019	BUILDING COMMITTEE MEETING Review Design Refinements Review MSBA Design Development Submission Comments Review Construction Logistics Plan Site Permitting Update
May 14, 2019	PLANNING BOARD HEARING NO. 2 - DATE TBD
May 15, 2019	CONSERVATION COMMISSION ISSUE ORDER - DATE TBD
May 21, 2019	BUILDING COMMITTEE MEETING Review Design Refinements Review LEED Scorecard Review Construction Logistics Plan Site Permitting Update
May 28, 2019	PLANNING BOARD ISSUE DECISION - DATE TBD
June 11, 2019	BUILDING COMMITTEE MEETING Review Reconciled 60% Construction Documents Cost Estimate Decide Value Engineering Items Vote to Submit 60% Construction Documents Package to MSBA
June 18, 2019	<i>SUBMIT 60% CONSTRUCTION DOCUMENTS PACKAGE TO MSBA</i>
	ADDITIONAL MEETINGS TO BE SCHEDULED



Design Development Estimate

W. Edward Balmer Elementary School

Whitinsville, MA

PM&C LLC
20 Downer Ave, Suite 1C
Hingham, MA 02043
(T) 781-740-8007
(F) 781-740-1012

Prepared for:

Dore + Whittier Architects, Inc.

March 18, 2019



W. Edward Balmer Elementary School
Whitinsville, MA

18-Mar-19

Design Development Estimate

MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
	Sep-19			
NEW BUILDING		167,352	\$302.80	\$50,673,892
DEMOLISH EXISTING SCHOOL		71,871	\$7.00	\$503,097
REMOVE HAZARDOUS MATERIALS				\$1,025,442
GENERAL REQUIREMENTS				\$2,065,736
SITework				\$10,576,322
SUB-TOTAL		167,352	\$387.47	\$64,844,489
ESCALATION	2.50%			\$1,621,112
DESIGN AND PRICING CONTINGENCY	6%			\$3,987,936
SUB-TOTAL		167,352	\$420.99	\$70,453,537
GENERAL CONDITIONS				\$5,364,384
BONDS				Included w/ GC's
INSURANCE				Included w/ GC's
PERMIT				Waived
CM CONTINGENCY	2%			\$1,409,071
CM FEE				\$1,625,000
TOTAL OF ALL CONSTRUCTION		167,352	\$471.17	\$78,851,992



W. Edward Balmer Elementary School
Whitinsville, MA

18-Mar-19

Design Development Estimate

This Design Development cost estimate was produced from drawings, specifications and other documentation prepared by Dore and Whittier Architects Inc. and their design team dated February 22, 2019. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, Construction Managers overhead, fee and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding under Chapter 149a of the Massachusetts General Laws to pre-qualified construction managers, and pre-qualified sub-contractors, open specifications for materials and manufacturers.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

- Land acquisition, feasibility, and financing costs
- All professional fees and insurance
- Site or existing conditions surveys investigations costs, including to determine subsoil conditions
- All Furnishings, Fixtures and Equipment
- Items identified in the design as Not In Contract (NIC)
- Items identified in the design as by others
- Owner supplied and/or installed items as indicated in the estimate
- Utility company back charges, including work required off-site
- Work to City streets and sidewalks, (except as noted in this estimate)
- Construction contingency
- Contaminated soils removal



W. Edward Balmer Elementary School
Whitinsville, MA

18-Mar-19

Design Development Estimate

GFA 167,352

CONSTRUCTION COST SUMMARY

<i>BUILDING SYSTEM</i>	<i>SUB-TOTAL</i>	<i>TOTAL</i>	<i>S/SF</i>	<i>%</i>
NEW BUILDING				
A10 FOUNDATIONS				
A1010 Standard Foundations	\$1,664,981			
A1020 Special Foundations	\$0			
A1030 Lowest Floor Construction	\$1,835,586	\$3,500,567	\$20.92	6.9%
A20 BASEMENT CONSTRUCTION				
A2010 Basement Excavation	\$0			
A2020 Basement Walls	\$0	\$0	\$0.00	0.0%
B10 SUPERSTRUCTURE				
B1010 Upper Floor Construction	\$4,210,760			
B1020 Roof Construction	\$2,405,979	\$6,616,739	\$39.54	13.1%
B20 EXTERIOR CLOSURE				
B2010 Exterior Walls	\$7,450,390			
B2020 Windows	\$2,246,503			
B2030 Exterior Doors	\$155,040	\$9,851,933	\$58.87	19.4%
B30 ROOFING				
B3010 Roof Coverings	\$2,292,116			
B3020 Roof Openings		\$2,292,116	\$13.70	4.5%
C10 INTERIOR CONSTRUCTION				
C1010 Partitions	\$3,600,631			
C1020 Interior Doors	\$1,255,146			
C1030 Specialties/Millwork	\$1,503,614	\$6,359,391	\$38.00	12.5%
C20 STAIRCASES				
C2010 Stair Construction	\$375,550			
C2020 Stair Finishes	\$106,312	\$481,862	\$2.88	1.0%
C30 INTERIOR FINISHES				
C3010 Wall Finishes	\$795,956			
C3020 Floor Finishes	\$1,402,226			
C3030 Ceiling Finishes	\$1,508,234	\$3,706,416	\$22.15	7.3%
D10 CONVEYING SYSTEMS				
D1010 Elevator	\$152,950	\$152,950	\$0.91	0.3%
D20 PLUMBING				



W. Edward Balmer Elementary School
Whitinsville, MA

18-Mar-19

Design Development Estimate

GFA 167,352

CONSTRUCTION COST SUMMARY					
<i>BUILDING SYSTEM</i>		<i>SUB-TOTAL</i>	<i>TOTAL</i>	<i>S/SF</i>	<i>%</i>
NEW BUILDING					
D20	Plumbing	\$1,811,000	\$1,811,000	\$10.82	3.6%
D30 HVAC					
D30	HVAC	\$6,774,926	\$6,774,926	\$40.48	13.4%
D40 FIRE PROTECTION					
D40	Fire Protection	\$795,000	\$795,000	\$4.75	1.6%
D50 ELECTRICAL					
D5010	Complete System	\$5,340,018	\$5,340,018	\$31.91	10.5%
E10 EQUIPMENT					
E10	Equipment	\$709,579	\$709,579	\$4.24	1.4%
E20 FURNISHINGS					
E2010	Fixed Furnishings	\$2,281,395			
E2020	Movable Furnishings	NIC	\$2,281,395	\$13.63	4.5%
F10 SPECIAL CONSTRUCTION					
F10	Special Construction	\$0	\$0	\$0.00	0.0%
F20 HAZMAT REMOVALS					
F2010	Building Elements Demolition	\$0			
F2020	Hazardous Components Abatement	\$0	\$0	\$0.00	0.0%
TOTAL DIRECT COST (Trade Costs)			\$50,673,892	\$302.80	100.0%



Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW BUILDING

GROSS FLOOR AREA CALCULATION

First Floor	72,910
Second Floor	45,825
Third Floor	48,617

TOTAL GROSS FLOOR AREA (GFA)	167,352 sf
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A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

033000 CONCRETE

Strip Footings	364	CY
Foundation Walls	408	CY
Spread Footings	945	CY
Piers	154	CY
Total Foundation Concrete	1,871	CY

Strip footings

Formwork	6,240	sf	11.00	68,640
Re-bar	31,510	lbs.	1.15	36,237
Concrete material; 4,000 psi	364	cy	115.00	41,860
Placing concrete	364	cy	70.00	25,480

Foundation walls

Formwork	16,768	sf	16.00	268,288
Re-bar	41,920	lbs.	1.15	48,208
Concrete material; 4,000 psi	408	cy	115.00	46,920
Placing concrete	408	cy	70.00	28,560
Form shelf	2,096	lf	10.00	20,960

Spread Footings

Formwork	12,152	sf	14.00	170,128
Re-bar	58,774	lbs.	1.15	67,590
Concrete material; 4,000 psi	945	cy	115.00	108,675
Placing concrete	945	cy	70.00	66,150
Set anchor bolts grout plates	199	ea	150.00	29,850

Piers/Pilasters

Formwork	5,278	sf	20.00	105,560
Re-bar	18,480	lbs	1.15	21,252
Concrete material; 4,000 psi	154	cy	115.00	17,710
Placing concrete	154	cy	80.00	12,320
Allowance to lower various footing along path of underground drain pipe, per updated structural narrative S0.00 received 3/4/19	1	ls	50,000.00	50,000

12" CIP Concrete walls at loading dock	110	lf	515.00	56,650
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070001 WATERPROOFING, DAMPPROOFING AND CAULKING

Damp proofing at brick shelf at gym; detail M17/A6.60	801	sf	3.00	2,403
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072100 THERMAL INSULATION

Insulation	8,384	sf	3.00	25,152
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312000 EARTHWORK

Strip footings

Excavation	1,969	cy	18.00	35,442
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Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
54	Store on site	1,969	cy	15.00	29,535		
55	Backfill with onsite material	1,197	cy	18.00	21,546		
56	<u>Spread footings</u>						
57	Excavation	3,059	cy	20.00	61,180		
58	Store on site	3,059	cy	15.00	45,885		
59	Backfill with onsite material	2,114	cy	18.00	38,052		
60	<u>Miscellaneous</u>						
61	Premium for rock blasting -10% of total excavation	503	cy	60.00	30,180		
62	Gravel fill beneath footings, 12"	546	cy	40.00	21,840		
63	Perimeter drain	2,096	lf	18.00	37,728		
64	Dewatering for foundation work (per Geotech report)	1	ls	25,000.00	25,000		
65	SUBTOTAL					1,664,981	
66							
67	A1020 SPECIAL FOUNDATIONS						
68	No work in this section						
69	SUBTOTAL						
70							
71	A1030 LOWEST FLOOR CONSTRUCTION						
72							
73	033000 CONCRETE						
74	<u>Slab on grade, 5" thick</u>						
75	Vapor barrier	74,016	sf	1.00	74,016		
76	Mesh reinforcing 15% lap	85,118	sf	1.10	93,630		
77	Concrete - 5" thick; 4,000 psi	1,209	cy	115.00	139,035		
78	Water vapor reducer admixture	1,209	cy	52.00	62,868		
79	Premium for blind side waterproofing	17,771	sf	7.50	133,283		
80	Placing concrete	1,209	cy	45.00	54,405		
81	Finishing and curing concrete	74,016	sf	2.50	185,040		
82	Control joints - saw cut	74,016	sf	0.10	7,402		
83	<u>Miscellaneous</u>						
84	Elevator pit; complete	1	ea	35,000.00	35,000		
85	Thickened slab at CMU walls	341	lf	25.00	8,525		
86	Loading dock w/ steps	307	sf	40.00	12,280		
87	CIP concrete steps at platform	51	lf	20.00	1,020		
88	Slab depression premium at kitchen	220	lf	25.00	5,500		
89	Underslab drainage at B & C wings per supplement #4	55,472	sf	4.00	221,888		
90	Ramps at platform	130	sf	20.00	2,600		
91	Equipment pads	1	ls	15,000.00	15,000		
92							
93	061000 ROUGH CARPENTRY						
94	Platform ramp framing; assumed wood framed	140	sf	20.00	2,800		
95							
96	072100 THERMAL INSULATION						
97	Rigid insulation	74,016	sf	2.25	166,536		
98							
99	312000 EARTHWORK						
100	Removal of unsuitables under the building included in site						
101	<u>Slab on grade</u>						
102	Structural fill under the building	13,776	cy	30.00	413,280		
103	12" Structural fill	2,741	cy	30.00	82,230		



Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW BUILDING

104	Base course, 9"	2,056	cy	40.00	82,240		
105	Compact sub-grade	74,016	sf	0.50	37,008		
106	SUBTOTAL					1,835,586	

TOTAL - FOUNDATIONS						\$3,500,567
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A20 BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section

SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section

SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION					
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B10 SUPERSTRUCTURE

15.0 lbs/sf

B1010 FLOOR CONSTRUCTION

1,252 tns

033000 CONCRETE

Concrete on Metal Deck

130	WWF reinforcement	106,144	sf	1.10	116,758		
131	Concrete fill to metal deck; 4-1/2" normal weight	1,346	cy	130.00	174,980		
132	Water vapor reducer admixture	1,346	cy	60.00	80,760		
133	Place and finish concrete	92,299	sf	2.00	184,598		
134	Rebar to decks	27,690	lbs	1.20	33,228		

051200 STRUCTURAL STEEL FRAMING

137	Steel beams and bracing	589	tns	3,800.00	2,238,200		
138	Steel columns	181	tns	3,800.00	687,800		
139	Premium for HSS	270	tns	300.00	81,000		
140	Shear studs	18,460	ea	2.50	46,150		
141	3" Metal floor deck	92,299	sf	3.75	346,121		
142	Misc. angles; relieving angles, lintels etc.	92,299	sf	0.75	69,224		
143	Moment connections	15	ea	500.00	7,500		
144	Full welds	16	ea	900.00	14,400		
145	Expansion joints	150	lf	75.00	11,250		

078100 FIREPROOFING/FIRESTOPPING

148	Columns, beams & underside of deck receive spray applied fireproofing per GC1.10/GC1.20	31,083	sf	3.50	108,791		
149	Fire stopping floors	1	ls	10,000.00	10,000		
150	SUBTOTAL					4,210,760	

B1020 ROOF CONSTRUCTION



Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW BUILDING

154	033000 CONCRETE							
155	Concrete on metal deck at rooftop equipment & select low roof locations							
156	WWF reinforcement	5,549	sf	1.10	6,104			
157	Concrete fill to metal deck; 4-1/2" normal weight	33	cy	135.00	4,455			
158	Concrete fill to metal deck; 7" normal weight	109	cy	135.00	14,715			
159	Place and finish concrete	4,825	sf	2.00	9,650			
160	Rebar to decks	1,665	lbs	1.20	1,998			
161								
162	051200 STRUCTURAL STEEL FRAMING							
163	Steel beams/columns	346	tns	3,800.00	1,314,800			
164	Joists at gym roof - DLH series	15	tns	3,500.00	52,500			
165	Steel at door canopies and large roof overhangs ; 20 lbs/sf	38	tns	3,800.00	144,400			
166	Steel at roof top equipment; 5 lbs/sf	12	tns	3,500.00	42,000			
167	Premium for HSS	30	tns	300.00	9,000			
168	Galv steel at roof screen framing, 15#/SF	71	tns	4,900.00	347,900			
169	Premium for AESS steel - exterior columns only	1	ls	5,000.00	NR			
170	Acoustic deck at gym	6,200	sf	9.00	55,800			
171	3" type N galvanized metal roof deck, typical	80,531	sf	3.50	281,859			
172	Uplift bridging at gym roof	188	lf	50.00	9,400			
173	X-bridging at gym roof	284	lf	50.00	14,200			
174	Moment connections	42	ea	500.00	21,000			
175	Full welds	26	ea	900.00	23,400			
176	Expansion joints	75	lf	75.00	5,625			
177								
178	078100 FIREPROOFING/FIRESTOPPING							
179	Columns, beams & underside of deck receive spray applied fireproofing GC1.30	13,478	sf	3.50	47,173			
180	SUBTOTAL					2,405,979		
181								
182	TOTAL - SUPERSTRUCTURE						\$6,616,739	

B20 EXTERIOR CLOSURE

186							
187	B2010 EXTERIOR WALLS	67,944	sf				
188							
189	042000 MASONRY						
190	Brick veneer	37,325	sf	36.00	1,343,700		
191	Ground face CMU veneer at gym A24/A4.14	400	sf	30.00	12,000		
192	Premium for brick pier construction type X1.11A	8,616	sf	3.00	25,848		
193	Premium for brick 8" soldier course	553	lf	5.00	2,765		
194	Brick to columns at entry vestibule #1205	682	sf	40.00	27,280		
195	Cast stone base	4,481	sf	62.00	277,822		
196	Stone cap at base	1,028	lf	75.00	77,100		
197	Stone cap at brick piers	2,045	lf	75.00	153,375		
198	12" CMU backup, reinforced @ Gym	5,610	sf	30.00	168,300		
199	Staging to exterior wall	42,888	sf	3.00	128,664		
200							
201	055813 COLUMN COVERS						



Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
202	Insulated metal column covers at exterior 9'-2" high; A18/A6.60	2	loc	5,135.20	10,270		
203							
204	101400 SIGNAGE						
205	Exterior signage	1	ls	10,000.00	10,000		
206							
207	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
208	Air barrier; spray barrier	67,944	sf	6.50	441,636		
209	Air barrier; spray barrier at soffit and cornice	17,423	sf	6.50	113,250		
210	Air barrier/flashing at windows	8,693	lf	6.75	58,678		
211	Miscellaneous sealants & flashings at closure	67,944	sf	1.00	67,944		
212							
213	072100 THERMAL INSULATION						
214	Insulation; 3" rigid at masonry	42,888	sf	3.00	128,664		
215	Insulation; 4" mineral wool at metal & phenolic panel	25,056	sf	4.15	103,982		
216	Insulation; 4" mineral wool at metal soffits and fascia	13,633	sf	4.15	56,577		
217							
218	076400 CLADDING						
219	Composite metal panel rain screen system @ roof level; ATAS	11,206	sf	70.00	784,420		
220	Pre-finished phenolic panel rainscreen system (3 colors); Trespa "Meteon"	13,850	sf	68.00	941,800		
221	Prefinished metal cornice; A6.70	1,895	lf	280.16	530,903		
222	Metal soffit panel at overhang and canopy soffits, including framing, sheathing, insulation	6,053	sf	75.00	453,975		
223	Mockups; per specifications	1	ls	50,000.00	50,000		
224							
225	074210 ROOFTOP ENCLOSURES						
226	Aluminum horizontal louvered roof screen Centria or similar	9,517	sf	55.00	523,435		
227							
228	092900 GYPSUM BOARD ASSEMBLIES						
229	Framing system @ overhangs and canopies	6,053	sf	included w/ soffit			
230	6" metal stud backup	62,334	sf	9.50	592,173		
231	Gypsum Sheathing	62,334	sf	2.75	171,419		
232	Drywall lining to interior face of stud backup (furred partitions at inside of exterior walls taken below)	58,912	sf	3.30	194,410		
233	SUBTOTAL					7,450,390	
234							
235	B2020 WINDOWS	17,735	sf				
236							
237	061000 ROUGH CARPENTRY						
238	Wood blocking at openings	8,693	lf	12.00	104,316		
239							
240	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
241	Backer rod & double sealant	8,693	lf	9.00	78,237		
242							
243	080001 METAL WINDOWS						
244	Aluminum framed windows	1,159	sf	95.00	110,105		
245	Curtainwall, double glazed (EFCO 5600 or equal)	2,333	sf	120.00	279,960		
246	Storefront	13,993	sf	100.00	1,399,300		



Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW BUILDING

247	Premium for operable hopper panels in storefront; locations per D&W email 3/11/19	166	loc	300.00	49,800			
248	Premium for spandrel glass; IG-6	767	sf	10.00	7,670			
249	Pre-finished aluminum sunshades	728	lf	250.00	182,000			
250	Premium for 1" school guard coating at storefront (per D&W email 3/13/19)	539	sf	35.00	18,865			
251								
252	089000 LOUVERS							
253	Louvers - allow	250	sf	65.00	16,250			
254	SUBTOTAL						2,246,503	
255								
256	B2030 EXTERIOR DOORS							
257								
258	061000 ROUGH CARPENTRY							
259	Wood blocking at openings	461	lf	11.00	5,071			
260								
261	079200 JOINT SEALANTS							
262	Backer rod & double sealant	461	lf	9.00	4,149			
263								
264	081110 HOLLOW METAL							
265	Frames, single	2	ea	450.00	900			
266	Frames, double	8	ea	600.00	4,800			
267	Type F - Single leaf hollow metal door	2	ea	500.00	1,000			
268	Type F - Double leaf hollow metal door	3	pr	1,000.00	3,000			
269	Type FG - Double leaf hollow metal door with upper and lower glazed panels	5	pr	1,600.00	8,000			
270								
271	083000 OVERHEAD DOORS							
272	Overhead door; 8' x 7'	1	ea	3,920.00	3,920			
273								
274	083513 FOLDING DOORS							
275	No items in this section							
276								
277	084110 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS							
278	Glazed aluminum entrance door and hardware in CW frame; 3'x7'	5	ea	4,000.00	20,000			
279	Glazed aluminum entrance door and hardware in CW frame; 6'x7'	8	pr	8,000.00	64,000			
280	Auto openers - allow	3	ea	5,000.00	15,000			
281								
282	087100 DOOR HARDWARE							
283	Hardware	18	leaf	1,200.00	21,600			
284								
285	090007 PAINTING							
286	Finish doors and frames	18	ea	200.00	3,600			
287	SUBTOTAL						155,040	
288								
289	TOTAL - EXTERIOR CLOSURE							\$9,851,933
290								
291								
292	B30 ROOFING							
293								
294	B3010 ROOF COVERINGS							
295								
296	054000 COLD FORM METAL FRAMING							



Design Development Estimate

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW BUILDING								
297	12 GA. CFMF angle at roof cornice	1,895	lf	35.00	66,325			
298	2-1/2" CFMF between struct. Channels at cornice	3,000	sf	9.00	27,000			
299	3-1/2" CFMF horizontal z-girt at cornice	3,468	sf	6.00	20,808			
300	6" CFMF vertical z-girt at cornice	3,316	sf	9.50	31,502			
301								
302	055000 MISC. METALS							
303	Roof ladder	4	ea	5,000.00	20,000			
304								
305	061000 ROUGH CARPENTRY							
306	Rough blocking	15,024	lf	8.00	120,192			
307								
308	070002 ROOFING AND FLASHING							
309	TPO roofing, 60mil, R1, complete	75,338	sf	17.50	1,318,415			
310	Extend roof membrane to back of parapet; 2/A6.11	440	sf	11.00	4,840			
311	Stone ballast roofing, R1B, complete	10,953	sf	22.00	240,966			
312	Premium for tapered insulation	28,867	sf	2.00	57,734			
313	1/2" Plywood at roof cornice	4,415	sf	4.00	17,660			
314	Walkway pads	1,952	sf	12.00	23,424			
315	Roof to wall flashing	1,460	lf	20.00	29,200			
316	Roof scupper; R27/A3.50	23	loc	350.00	8,050			
317	Miscellaneous roof flashings & sealants	86,291	sf	0.75	64,718			
318								
319	072100 THERMAL INSULATION							
320	3" rigid insulation at cornice	6,784	sf	3.00	20,352			
321	3" rigid insulation at back of parapet; 2/A6.11	440	sf	3.00	1,320			
322								
323	074200 METAL PANELS							
324	Flat fascia at small entrance canopies; 12" high	30	lf	40.00	1,200			
325	Fascia/ edge detail at canopy/ ballast roofs/ parapet 14" high; similar to 5/A6.13	1,750	lf	75.00	131,250			
326	Parapet cap at low roof 21" wide; 2/A6.11	81	lf	75.00	6,075			
327								
328	SUBTOTAL					2,211,031		
329								
330	078010 ROOF OPENINGS							
331	Sloped skylights	414	sf	150.00	62,100			
332	Roof hatch including access ladder	1	ea	4,000.00	4,000			
333	Elevator penthouse	1	ls	5,000.00	5,000			
334								
335	092900 GYPSUM BOARD ASSEMBLIES							
336	Gypsum Sheathing at roof edge	3,631	sf	2.75	9,985			
337	SUBTOTAL					81,085		
338								
339	TOTAL - ROOFING						\$2,292,116	
340								
341								
342	C10 INTERIOR CONSTRUCTION							
343								
344	C1010 PARTITIONS							
345								
346	042000 MASONRY							
347	E1; 8" CMU, reinforced, 1 hr @ elevator shaft	1,652	sf	24.00	39,648			
348	G1; 12" CMU shear wall, reinforced, 1 hr @ gym	2,269	sf	30.00	68,070			



W. Edward Balmer Elementary School
Whitinsville, MA

18-Mar-19

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
349	G2; 8" CMU shear wall, reinforced, 2 hr fire wall	2,552	sf	28.00	71,456		
350	6" CMU at gym	553	sf	22.00	12,166		
351							
352	055000 MISCELLANEOUS METALS						
353	Seismic clips	85	ea	140.00	11,900		
354	Misc. metals to CMU	7,026	sf	1.00	7,026		
355	Allowance for painted steel plate column covers at CMU wall locations; per J series details/A1.50	1	ls	5,000.00	5,000		
356	Support at fire door & overhead doors	181	lf	130.00	23,530		
357							
358	061000 ROUGH CARPENTRY						
359	Wood blocking at interiors	167,352	gsf	0.50	83,676		
360	Rough blocking at partitions	30,002	lf	3.00	90,006		
361							
362	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
363	Miscellaneous sealants at partitions	191,114	sf	0.30	57,334		
364							
365	080001 METAL WINDOWS						
366	Interior storefront	1,340	sf	75.00	100,500		
367	Interior curtainwall at stair 5, 1hr fire rated per supplement #3	1,035	sf	250.00	258,750		
368	Premium for 5/16" school guard coating at storefront (per D&W email 3/13/19)	85	sf	35.00	2,975		
369							
370	080002 GLASS AND GLAZING						
371	Glazing to borrowed lite HM frames	1,035	sf	35.00	36,225		
372	Wall mirror at PT	26	sf	40.00	1,040		
373	Premium for 1 hr glass at library open to above	171	sf	35.00	5,985		
374							
375	081110 HOLLOW METAL DOOR FRAMES						
376	Glazed HM borrowed lite frames	1,035	sf	40.00	41,400		
377							
378	092900 GYPSUM BOARD ASSEMBLIES						
379	A; 6" Metal stud, 1 layer 5/8" e.s., insulation	103,886	sf	15.00	1,558,290		
380	A1; 6" Metal stud, 1 layer 5/8" e.s., insulation, 1 hr	7,074	sf	17.00	120,258		
381	A2; 6" Metal stud, 2 layers 5/8" e.s., insulation	545	sf	19.00	10,355		
382	B; 3-5/8" Metal stud, 1 layer 5/8" e.s., insulation	231	sf	13.00	3,003		
383	B1; 3-5/8" Metal stud, 1 layer 5/8" e.s., insulation (1 hr)	351	sf	15.00	5,265		
384	F - 2 1/2" Metal stud, 1 layer 5/8" o.s, insulation	17,893	sf	7.50	134,198		
385	F4; 3 5/8" Metal stud, 1 layer 5/8" o.s., insulation	30,284	sf	9.50	287,698		
386	F6; 6" Metal stud, 1 layer 5/8" o.s., insulation	21,775	sf	11.50	250,413		
387	S1 - 2 1/2" CH stud, 1 layer 1" GWB coreboard o/s, 2 layers 5/8" GWB o/s, insulation	9,075	sf	15.50	140,663		
388	Premium for abuse resistant GWB at all walls up to 10' per AGO.02	150,010	sf	0.50	75,005		
389	Reconciled delta	4,000	sf	15.00	60,000		
390	Premium for water-resistant GWB	3,696	sf	1.00	3,696		
391							
392	102200 OPERABLE PARTITIONS						
393	Modernfold partition btwn Platform & Gym	26	lf	1,350.00	35,100		
394	SUBTOTAL					3,600,631	
395							



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
396	C1020 INTERIOR DOORS						
397							
398	061000 ROUGH CARPENTRY						
399	Wood blocking at openings	5,888	lf	4.00	23,552		
400							
401	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
402	Backer rod & double sealant	5,888	lf	2.50	14,720		
403							
404	080002 GLASS AND GLAZING						
405	Glass in door, transoms & sidelights 5/16" S3 safety glazing	2,465	sf	38.00	93,670		
406	Allowance for S-2 fire resistant safety glazing in glass openings in fire rated partitions	1	ls	20,000.00	20,000		
407	Premium for 5/16" school guard glazing at interior doors and frames (per D&W email 3/13/19)	66	sf	35.00	2,310		
408							
409	081110 HOLLOW METAL DOORS AND FRAMES						
410	Type F door, sgl leaf	1	ea	500.00	500		
411	Type F door, dbl leaf	1	pr	1,000.00	1,000		
412	Frame type 1, single	158	ea	450.00	71,100		
413	Frame type 1, double	35	ea	600.00	21,000		
414	Frame type 5, single w/ sidelight	19	ea	750.00	14,250		
415	Frame type 6, single w/ transom & sidelight	84	ea	1,050.00	88,200		
416	Frame type 7, double w/ transom	8	ea	850.00	6,800		
417	Frame type 8, single w/ sidelight	1	ea	775.00	775		
418							
419	081400 WOOD DOORS						
420	Type F, sgl leaf	141	ea	450.00	63,450		
421	Type F, dbl leaf	38	pr	900.00	34,200		
422	Type FG, sgl leaf, glazed upper & lower	83	ea	600.00	49,800		
423	Type FG, dbl leaf, glazed upper & lower	4	pr	1,200.00	4,800		
424	Type G, sgl leaf, glazed upper	1	ea	525.00	525		
425	Type N, sgl leaf w/ vision panel	36	ea	500.00	18,000		
426	Premium for 60 min fire rated doors	18	ea	100.00	1,800		
427	Premium for 90 min fire rated doors	3	ea	150.00	450		
428							
429	083000 OVERHEAD DOORS						
430	Overhead door; 6'-6" x 10' at Servedy	2	ea	4,550.00	9,100		
431							
432	083110 ACCESS DOORS AND FRAMES						
433	Access doors	1	ls	10,000.00	10,000		
434							
435	083513 FOLDING DOORS, GLAZED						
436	Nana wall, 8' x 8' at Classrooms	10	ea	14,080.00	140,800		
437	Nana wall, 12' x 8' at Media Center	1	ea	21,120.00	21,120		
438	Folding wall doors; 15'-4" x 8', 90 min at fire wall, WON or equal	3	ea	23,408.00	70,224		
439							
440	084110 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS						
441	Glazed aluminum entrance door, frame and hardware, type FG, single leaf	2	ea	4,000.00	8,000		
442	Glazed aluminum entrance door, frame and hardware, type FG, double leaf	11	pr	8,000.00	88,000		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
443	Auto openers - allow	3	ea	5,000.00	15,000		
444							
445	087100 DOOR HARDWARE						
446	Hardware	348	leaf	800.00	278,400		
447	Premium for STC 52 rated doors at Music rooms	7	ea	2,000.00	14,000		
448							
449	090007 PAINTING						
450	Finish doors and frames	348	ea	200.00	69,600		
451	SUBTOTAL					1,255,146	
452							
453	C1030 SPECIALTIES / MILLWORK						
454							
455	055000 MISCELLANEOUS METALS						
456	Miscellaneous metals throughout building	167,352	gsf	1.00	167,352		
457	Double handrail at platform ramp	70	lf	150.00	10,500		
458	Double ballet bar at PT	5	lf	150.00	750		
459	PT swing misc. steel beam	1	loc	2,000.00	2,000		
460							
461	061000 ROUGH CARPENTRY						
462	Backer panels in electrical closets	1	ls	2,500.00	2,500		
463							
464	064020 INTERIOR ARCHITECTURAL WOODWORK						
465	Hardwood veneer plywood panel at Proscenium	640	sf	75.00	48,000		
466	Hardwood veneer plywood wainscoting at locations noted on supplement #4; details SK-DD-01	1,437	sf	75.00	107,775		
467	Chair rail above wainscoting at locations noted on supplement #4; details SK-DD-01	389	lf	30.00	11,670		
468	Library light well sculptural element; 63"x104" 3-Form; allowance	2	ea	9,100.00	18,200		
469	Library sculptural element above shelving; 42"x76" 3-Form; allowance	2	ea	7,000.00	14,000		
470	Alcove seating at Corridor 1102	36	lf	350.00	12,600		
471	Benches at library	15	lf	350.00	5,250		
472	Book shelving joined to desks at media center 3 tier	19	lf	300.00	5,700		
473	Counter at general office/waiting	14	lf	900.00	12,600		
474	Desk at media center/Reading room including shelving	18	lf	1,200.00	21,600		
475	Vanity at gang bathroom corridor sinks				NIC		
476	Window seat at corridor	96	lf	350.00	33,600		
477	Countertop at corridor 3102	11	lf	250.00	2,750		
478	Stage nosing - 1x hardwood trim with bullnose; 4/A9.50	25	lf	50.00	1,250		
479	Wood window sill	1,928	lf	45.00	86,760		
480							
481	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
482	Miscellaneous sealants throughout building	167,352	gsf	0.25	41,838		
483							
484	101100 VISUAL DISPLAY SURFACES						
485	Marker boards (per floor plan notes)	6,780	sf	22.00	149,160		
486	Tack board (per floor plan notes)	2,552	sf	20.00	51,040		
487	Tack strips at teaching walls and corridors	2,931	lf	8.00	23,448		
488							
489	101400 DISPLAY CASES						



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
490	Glass display case at corridor	2	loc	8,880.48	17,761		
491	Glass display case at media center (shown dashed)	1	loc	10,000.00	10,000		
492							
493	101400 SIGNAGE						
494	Building directory	1	loc	3,000.00	3,000		
495	Room Signs	327	loc	120.00	39,240		
496	Other signage/graphics	1	ls	25,000.00	25,000		
497							
498	102110 TOILET COMPARTMENTS						
499	ADA, solid recycled plastic	12	ea	2,000.00	24,000		
500	Standard, solid recycled plastic	48	ea	1,800.00	86,400		
501	Urinal screen, solid recycled plastic	6	ea	650.00	3,900		
502							
503	102800 TOILET ACCESSORIES						
504	Combo paper towel dispenser & waste units	12	ea	380.00	4,560		
505	Paper towel dispensers	44	ea	150.00	6,600		
506	Framed mirrors	60	ea	200.00	12,000		
507	Soap dispenser	50	ea	70.00	3,500		
508	Toilet paper holder, dual	92	ea	150.00	13,800		
509	Grab bars	50	sets	200.00	10,000		
510	Sanitary napkin disposal units	80	ea	100.00	8,000		
511	Electric hand dryers at gang bathrooms	56	ea	750.00	42,000		
512	Shower seat	1	ea	350.00	350		
513	Bench with changing table at SPED toilet 6' wide	1	ea	1,700.00	1,700		
514	Janitors Closet Accessories	6	rms	300.00	1,800		
515							
516	104600 PRIVACY CURTAINS						
517	Curtain track in exam rooms	60	lf	50.00	3,000		
518							
519	104400 FIRE PROTECTION SPECIALTIES						
520	Fire extinguisher cabinets	56	ea	350.00	19,600		
521							
522	105000 LOCKERS						
523	Double tier HDPE student lockers, 12"x15"x60"	392	opng	360.00	141,120		
524	Single tier HDPE lockers on level 2	435	ea	400.00	174,000		
525	Staff metal lockers	6	ope	190.00	1,140		
526							
527	106000 WALL PROTECTION						
528	Stainless steel corner guards at corridor 1153	4	ea	200.00	800		
529	Allowance for corner guards elsewhere	1	ls	20,000.00	20,000		
530	SUBTOTAL					1,503,614	
531							
532	TOTAL - INTERIOR CONSTRUCTION						\$6,359,391
533							
534							
535	C20 STAIRCASES						
536							
537	C2010 STAIR CONSTRUCTION						
538							
539	033000 CONCRETE						
540	Concrete to stairs	11	flt	2,100.00	23,100		
541							



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW BUILDING

542	055000 MISCELLANEOUS METALS							
543	Egress stairs	11	flt	32,000.00	352,000			
544	Steps at stair 2 roof penthouse	15	lf	30.00	450			
545	SUBTOTAL					375,550		
546								
547	C2020 STAIR FINISHES							
548								
549	090005 RESILIENT FLOORS							
550	Rubber tile at stairs - landings	4,000	sf	12.00	48,000			
551	Rubber tile at stairs - treads	1,328	lft	19.06	25,312			
552								
553	090007 PAINTING							
554	Paint to staircases including underside	11	flt	3,000.00	33,000			
555	SUBTOTAL					106,312		
556								
557	TOTAL - STAIRCASES							\$481,862
558								
559								
560	C30 INTERIOR FINISHES							
561								
562	C3010 WALL FINISHES							
563								
564	064020 INTERIOR ARCHITECTURAL WOODWORK							
565	FRP wall panels in JC 1149 per supplement #2	967	sf	14.00	13,538			
566	FRP at kitchen & storage per supplement #2	1,914	sf	14.00	26,796			
567								
568	090002 TILE							
569	Wall tile at toilet rooms; 7' high per supplement #4	12,600	sf	22.00	277,200			
570	Porcelain wall tile at Servery/Cafeteria area, full height	454	sf	24.00	10,896			
571	Porcelain wall tile at front of kitchen area, full height	686	sf	24.00	16,464			
572	Wall tile at corridor drinking fountains per supplement #4	458	sf	22.00	10,076			
573	Wall tile at janitors closet mop sink per supplement #4	96	sf	22.00	2,112			
574								
575	090007 PAINTING							
576	Paint to GWB	306,411	sf	0.80	245,129			
577	Paint to CMU	9,076	sf	1.25	11,345			
578	Green screen wall paint	145	sf	5.00	725			
579								
580	097200 WALL COVERINGS							
581	DPW; Digitally printed protective wall coverings; Koroseal	1,591	sf	35.00	55,685			
582	Wall protection at corridor 1153	725	sf	10.00	7,250			
583								
584	098413 SOUND ABSORBING PANELS							
585	Woven wall sound control feature in Cafeteria - allowance		sf	50.00	none shown			
586	Cafeteria/Platform - acoustic panel	1,030	sf	30.00	30,900			
587	Music/Practice/Ensemble acoustic panel	464	sf	30.00	13,920			
588	ELA spaces - acoustic panel	1,568	sf	30.00	47,040			
589	Gymnasium - acoustic panel	1,280	sf	16.00	20,480			
590	Media center/Library - acoustic panel allowance	160	sf	40.00	6,400			
591	SUBTOTAL					795,956		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW BUILDING

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C3020 FLOOR FINISHES

033000 CONCRETE

Sealed concrete **5,310** sf 2.50 13,275

064020 INTERIOR ARCHITECTURAL WOODWORK

Wood flooring at Platform **1,100** sf 24.00 26,400

090002 TILE

Floor patching or self leveling compound allowance where necessary, per floor finish general note 15 **2,235** sf 0.50 1,118

Quarry tile 6x6 **1,835** sf 26.00 47,710

Compressed Quartz tile **400** sf 20.00 8,000

Quarry tile base **340** lf 20.00 6,800

090005 RESILIENT FLOORS

Floor patching or self leveling compound allowance where necessary, per floor finish general note 15 **114,857** sf 0.75 86,143

Sheet linoleum (including premium for patterns) **111,957** sf 7.00 783,699

Luxury vinyl tile **110** sf 5.50 605

Luxury vinyl tile - checkerboard pattern **360** sf 6.50 2,340

Rubber flooring at art and corridor 1129 **2,260** sf 12.00 27,120

Static dissipative tile 12x12 **170** sf 12.00 2,040

Resilient base **20,308** lf 2.50 50,770

096560 ATHLETIC FLOORING

Floor patching or self leveling compound allowance where necessary, per floor finish general note 15 **6,865** sf 0.75 5,149

Wood athletic flooring **5,995** sf 19.00 113,905

Wood athletic flooring vented base **254** sf 7.50 1,905

Resilient athletic floor; Taraflex sports M plus **870** sf 12.20 10,614

096700 FLUID APPLIED FLOORING

Epoxy floor at toilet rooms with 6" integral base **5,640** sf 18.00 101,520

Epoxy floors elsewhere (no integral base) **1,360** sf 16.00 21,760

096810 TILE CARPETING

Floor patching or self leveling compound allowance where necessary, per floor finish general note 15 **13,250** sf 0.75 9,938

Carpet **8,980** sf 5.00 44,900

Carpet at media center - including premium for patterning per A9.52 **4,270** sf 7.00 29,890

Carpet, waste **1,325** sf 5.00 6,625

Area rugs **9,892** sf NIC

Moisture mitigation -admixture included w/ concrete slabs

SUBTOTAL **1,402,226**

C3030 CEILING FINISHES

064020 INTERIOR ARCHITECTURAL WOODWORK

WD-1; linear wood slats w/ black acoustical felt above; Armstrong woodworks grille **5,919** sf 40.00 236,760



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW BUILDING

640	090003	ACOUSTICAL TILE					
641		ACP-1, 2x4 Armstrong Calla	84,524	sf	5.00	422,620	
642		ACP-1A, 2x2 Armstrong Calla	27,865	sf	5.50	153,258	
643		ACP-2A; 2x2 Armstrong Calla at Quiet room	342	sf	5.50	1,881	
644		ACP-4; 2x4 healthzone at third floor gang bathroom	579	sf	6.50	3,764	
645		ACP-6; 2x4 Armstrong serpentina waves at kitchen; curved metal clouds	2,030	sf	45.00	91,350	
646		ACP-6; 2x4 Armstrong serpentina waves at proscenium; white and maple unperforated finish; curved metal clouds	637	sf	60.00	38,220	
647		ACP-6; 2x4 Armstrong serpentina waves - curved metal clouds at cafeteria; micro perforated with acoustical fill	2,158	sf	50.00	107,900	
648		ACP-6A; 2x2 Armstrong serpentina waves at third floor corridor 3102 per A2.33; curved metal clouds	2,500	sf	45.00	112,500	
649		ACP-7 at music room; 2x4 Armstrong Calla (baffles taken below)	2,402	sf	5.00	12,010	
650							
651	090007	PAINTING					
652		Paint to GWB ceilings	14,565	sf	1.50	21,848	
653		Paint ceiling tile and grid black in Green screen & video room	200	sf	2.00	400	
654		Paint to exposed ceilings including at gym	9,967	sf	2.50	24,918	
655							
656	092900	GYPSUM BOARD ASSEMBLIES					
657		GWB ceiling	2,829	sf	15.00	42,435	
658		GWB cap above cafeteria west wall bumpouts, allowance	299	sf	15.00	4,485	
659		Premium for sound isolation ceiling type B at elevator machine room	85	sf	15.00	1,275	
660		GWB soffits - horizontal	6,188	sf	15.00	92,820	
661		GWB soffits - vertical	5,548	sf	20.00	110,960	
662							
663	098413	SOUND ABSORBING PANELS					
664		Acoustical baffles; Ecophone in Music rooms (40%)	961	sf	30.00	28,830	
665		Direct attached tectum panels between structure at gym per note on A2.23 (60% of ceiling)	3,597	sf	18.00	Removed from contract	
666		SUBTOTAL					1,508,234
667							
668	TOTAL - INTERIOR FINISHES						\$3,706,416
669							
670							
671	D10 CONVEYING SYSTEMS						
672							
673	055000	MISCELLANEOUS METALS					
674		Pit ladder	1	ea	2,500.00	2,500	
675		Sill angle	18	lf	25.00	450	
676							
677	142000	ELEVATOR					
678		Hydraulic elevator; 3 stop; 3,500 lbs	1	ea	150,000.00	150,000	
679		SUBTOTAL					152,950
680							
681	TOTAL - CONVEYING SYSTEMS						\$152,950
682							
683							
684	D20 PLUMBING						



Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW BUILDING

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D20 PLUMBING, GENERALLY

Equipment

Gas fired domestic HW heater 500 MBH with storage	2	ea	28,000.00	56,000		
Hot water pump 1.5 GPM	1	ea	1,200.00	1,200		
Water meter assembly	1	ea	3,500.00	3,500		
Reduced pressure backflow preventer	1	ea	3,000.00	3,000		
Connection to gas valve	1	ea	1,200.00	1,200		
Mixing valve	1	ea	4,500.00	4,500		
Expansion tank	2	ea	2,000.00	4,000		
Grease trap	1	ea	3,500.00	3,500		
Floor drains	12	ea	650.00	7,800		
Elevator sump pump	1	ea	3,500.00	3,500		
Gas solenoid control panel	1	ea	2,500.00	2,500		
Hot water heater flues	1	ls	2,000.00	2,000		
Grease Trap - 5000 Gallon; by plumbing	1	ea	10,000.00	10,000		

Plumbing Fixtures & Specialties

Water closet	91	ea	1,200.00	109,200		
Lavatory	55	ea	950.00	52,250		
Classroom sink	30	ea	975.00	29,250		
Stainless steel sink	9	ea	975.00	8,775		
Art room sinks interceptor	4	ea	1,100.00	4,400		
Urinal	11	ea	1,400.00	15,400		
Drinking fountain	9	ea	2,500.00	22,500		
Janitor sink	3	ea	975.00	2,925		

Domestic Water Type L Copper Pipe

Domestic water pipe with fittings & hangers	11,000	lf	40.00	440,000		
Domestic water pipe insulation	11,000	lf	9.00	99,000		

Sanitary Waste And Vent Pipe w/ Hangers

Sanitary waste pipe with fittings & hangers	9,500	lf	44.00	418,000		
Kitchen waste pipe with fittings & hangers	1,100	lf	46.00	50,600		

Storm Drainage, Hubless Cast Iron Pipe

Storm water pipe with fittings & hangers	3,800	lf	48.00	182,400		
Pipe insulation on horizontal runs	3,800	lf	12.00	45,600		

Gas And Fuel Distribution Pipe

Gas pipe with fittings & hangers	1,000	lf	110.00	110,000		
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Miscellaneous

Coordination & BIM	1	ls	60,000.00	60,000		
Coring, sleeves & firestopping	1	ls	15,000.00	15,000		
Commissioning support	1	ls	12,000.00	12,000		
Testing and sterilization	1	ls	10,000.00	10,000		
Fees & permits	1	ls	21,000.00	21,000		

SUBTOTAL

1,811,000

TOTAL - PLUMBING	\$1,811,000
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D30 HVAC

D30 HVAC, GENERALLY

HVAC Equipment



Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
736	Gas fired HW boiler 2500 MBH	3	ea	87,500.00	262,500		
737	Chemical treatment system	1	ls	15,000.00	15,000		
738	Expansion tank	1	ea	3,000.00	3,000		
739	Air separator	1	ea	2,000.00	2,000		
740	Radiant ceiling panel	3,460	lf	120.00	415,200		
741	Unit heater HW	22	ea	650.00	14,300		
742	Ductless AC unit with ACCU	10	ea	7,500.00	75,000		
743	<u>Pumps</u>						
744	Hot water pump 500 gpm	2	ea	12,500.00	25,000		
745	Boiler pump 240 GPM	3	ea	6,000.00	18,000		
746	<u>Air distribution</u>						
747	RTU's gas fired heating with DX cooling & ERW	83,500	cfm	11.50	960,250		
748	Kitchen make-up air unit	4,500	cfm	8.00	36,000		
749	Kitchen heating & ventilation unit	5,000	cfm	6.00	30,000		
750	VAV unit	137	ea	1,200.00	164,400		
751	VRF outdoor unit	8	ton	1,800.00	14,400		
752	VRF indoor unit	18	ea	2,500.00	45,000		
753	Branch controller	3	ea	4,000.00	12,000		
754	Displacement ventilation system	146	ea	450.00	65,700		
755	Miscellaneous air distribution equipment	1	ls	50,000.00	50,000		
756	<u>Exhaust fans</u>						
757	Exhaust fans	12	ea	7,600.00	91,200		
758	<u>Sheet metal & Accessories</u>						
759	Supply & return galvanized ductwork distribution system	133,000	lbs	10.50	1,396,500		
760	Duct insulation	81,000	sf	4.00	324,000		
761	Combustion air galvanized ductwork distribution system	2,500	lbs	10.25	25,625	W/ Plumbing	
762	Kitchen hood exhaust ductwork system	4,000	lbs	14.00	56,000		
763	Sound attenuators	21	ea	3,000.00	63,000		
764	Registers, grilles & diffusers	154	ea	125.00	19,250		
765	Sheet metal accessories	1	ls	75,000.00	75,000		
766	Mechanical louvers	1	ls	5,000.00	5,000		
767	<u>Piping</u>						
768	<u>Hot Water Piping</u>						
769	Hot water piping with fittings & hangers	16,000	lf	40.00	640,000		
770	<u>Refrigerant Piping</u>						
771	Refrigerant piping with fittings & hangers	7,100	lf	26.00	184,600		
772	<u>Condensate Drain Piping</u>						
773	Condensate drain piping with fittings & hangers	2,900	lf	20.00	58,000		
774	<u>Piping Insulation</u>						
775	Piping insulation	26,000	lf	9.00	234,000		
776	<u>Automatic Temperature Controls</u>						
777	Automatic temperature controls DDC	167,352	sf	6.00	1,004,112		
778	<u>Balancing</u>						
779	System testing & balancing	167,352	sf	0.75	125,514		
780	<u>Miscellaneous</u>						
781	Work to extend stair 2 to roof	1	ls	9,000.00		NIC	



Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW BUILDING

782	Coordination & BIM	1	ls	190,000.00	190,000			
783	Commissioning support	1	ls	25,000.00	25,000			
784	Coring, sleeves & fire stopping	1	ls	15,000.00	15,000			
785	Equipment start-up and inspection	1	ls	3,000.00	3,000			
786	Rigging & equipment rental	1	ls	30,000.00	30,000			
787	Vibration & seismic restraints	1	ls	28,000.00	28,000			
788	SUBTOTAL					6,774,926		
790	TOTAL - HVAC							\$6,774,926

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Equipment & valves

797	Double check valve assembly	1	ea	8,500.00	8,500			
798	Wet alarm check valve assembly	1	ea	4,000.00	4,000			
799	Fire department connection	2	ea	1,650.00	3,300			
800	Control valve & TS (each floor)	10	ea	2,500.00	25,000			
801	Fire hose valve	12	ea	700.00	8,400			
802	Sprinkler heads	1,400	ea	85.00	119,000			
803	<u>Sprinkler Piping</u>							
804	Main sprinkler piping with fittings & hangers	6,500	lf	32.00	208,000			
805	Branch sprinkler piping with fittings & hangers	12,000	lf	24.00	288,000			
806	Fire standpipes with fittings & hangers	5	ea	3,600.00	18,000			
807	Drain piping with fittings & hangers	2	ea	2,400.00	4,800			
808	Valves & Specialties	1	ls	40,000.00	40,000			
809	<u>Miscellaneous</u>							
810	Coordination & BIM	1	ls	20,000.00	20,000			
811	Hydraulic calculations	1	ls	8,000.00	8,000			
812	Coring, sleeves & firestopping	1	ls	15,000.00	15,000			
813	Shop drawings	1	ls	5,000.00	5,000			
814	Commissioning of system	1	ls	12,000.00	12,000			
815	Fees & permits	1	ls	8,000.00	8,000			
816	SUBTOTAL					795,000		
818	TOTAL - FIRE PROTECTION							\$795,000

D50 ELECTRICAL

D5010 ELECTRICAL SYSTEMS

Gear & Distribution

Normal Power

826	Meter Sockets	1	ea	400.00	400		
827	CT/PT cabinet	1	ea	3,500.00	3,500		
828	3000A 277/480V main switchboard	1	ea	75,000.00	75,000		
829	225A 277/480V panelboard	8	ea	2,400.00	19,200		
830	100A 277/480V panelboard	8	ea	1,400.00	11,200		
831	45KVA K-13 type transformer	18	ea	8,000.00	144,000		



Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
832	225A 208/120V triple tub panelboard	5	ea	7,200.00	36,000		
833	225A 208/120V double tub panelboard	9	ea	4,800.00	43,200		
834	225A 208/120V panelboard	2	ea	2,400.00	4,800		
835	100A 208/120V panelboard	2	ea	1,400.00	2,800		
836	100A fused disconnect switch	15	ea	1,000.00	15,000		
837	SPD	43	ea	750.00	32,250		
838	225A feed	1,600	lf	45.00	72,000		
839	100A feed	2,200	lf	20.00	44,000		
840	Grounding	1	ls	20,000.00	20,000		
841	<u>Emergency power</u>						
842	250kW diesel generator w/125kW resistive load bank including fuel for testing, including WP acoustic enclosure	1	ea	100,000.00	100,000		
843	600A 277/480V ATS	1	ea	12,000.00	12,000		
844	100A 277/480V ATS	1	ea	3,800.00	3,800		
845	225A 277/480V panelboard	8	ea	2,400.00	19,200		
846	100A 277/480V panelboard	1	ea	1,400.00	1,400		
847	112.5 KVA K-13 type transformer	3	ea	15,400.00	46,200		
848	45KVA dry type transformer	2	ea	5,200.00	10,400		
849	400A 208/120V quadruple panelboard	4	ea	11,850.00	47,400		
850	225A 208/120V double tub panelboard	2	ea	4,800.00	9,600		
851	SPD	7	ea	750.00	5,250		
852	600A feed	60	lf	120.00	7,200		
853	400A feed	60	lf	80.00	4,800		
854	225A feed	100	lf	45.00	4,500		
855	200A feed	1,200	lf	40.00	48,000		
856	150A feed	60	lf	24.00	1,440		
857	100A feed	450	lf	20.00	9,000		
858	<u>UPS System</u>						
859	16kW UPS	2	ea	15,000.00	30,000		
860	225A 208/120V double tub panelboard	2	ea	4,800.00	9,600		
861	100A fused disconnect switch	2	ea	996.00	1,992		
862	70A feed	400	lf	20.00	8,000		
863	<i>Note: Risers and panelboard schedule do not match. Panelboard schedule use for estimate</i>						
864	<u>Photovoltaic system</u>						
865	PV equipment & installation						
866	Future PV system rough in including 1" & 2" conduit to roof	2	loc	5,000.00	10,000		
867	<u>Equipment Wiring</u>						
868	BC 20A feed, connection & 30A NFSS	3	ea	935.00	2,805		
869	Boiler 20A feed, connection & TS	3	ea	715.00	2,145		
870	Chiller 60A feed, connection & 60A FSS WP	1	ea	2,780.00	2,780		
871	CP 20A feed, connection & TS	1	ea	1,095.00	1,095		
872	DCU 20A feed, connection & 30A FSS	10	ea	1,420.00	14,200		
873	DCU 30A feed, connection & 30A FSS	10	ea	1,465.00	14,650		
874	DWH 20A feed, connection & TS	2	ea	1,095.00	2,190		
875	EF 20A feed, connection & TS	6	ea	1,095.00	6,570		
876	EF 30A feed, connection & TS	5	ea	1,140.00	5,700		



Design Development Estimate

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167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
877	EUH 20A feed, connection & 30A NFSS	1	ea	1,320.00	1,320		
878	GF 20A feed & connection	1	ea	1,020.00	1,020		
879	HV 20A feed, connection & 30A NFSS	1	ea	1,320.00	1,320		
880	KEF 20A feed, connection & 30A NFSS	1	ea	1,510.00	1,510		
881	MAU 20A feed, connection & 30A NFSS	1	ea	1,520.00	1,520		
882	Pump 20A feed, connection & 30A NFSS	2	ea	935.00	1,870		
883	Pump 30A feed, connection & 30A NFSS	2	ea	965.00	1,930		
884	RP 20A feed, connection & TS	2	ea	1,095.00	2,190		
885	RTU 100A feed, connection & 100A FSS WP	8	ea	3,930.00	31,440		
886	RTU 30A feed, connection & 30A FSS WP	1	ea	1,820.00	1,820		
887	SV 20A feed, connection & TS	1	ea	905.00	905		
888	UH 20A feed, connection & TS	22	ea	1,290.00	28,380		
889	VAV 20A feed, connection & TS	94	ea	600.00	56,400		
890	VRF system 20A feed, connection & 30A FSS	19	ea	940.00	17,860		
891	Power to shade node, 110v	177	ea		Add Alt		
892	Power to shade clutch, lv	582	ea		Add Alt		
893	Kitchen:						
894	20A feed & connection	2	ea	500.00	1,000		
895	20A feed, connection & TS	13	ea	500.00	6,500		
896	20A feed, connection & 30A NFSS	6	ea	650.00	3,900		
897	20A feed, connection & 30A FSS	2	ea	650.00	1,300		
898	60A feed, connection & 60A FSS	1	ea	1,300.00	1,300		
899	70A feed, connection & 100A FSS	1	ea	1,400.00	1,400		
900	Elevator 125A feed, connection & 200A FSS	1	ea	3,500.00	3,500		
901	Elevator cab 20A feed, connection & 30A FSS	1	ea	1,500.00	1,500		
902	Misc. equipment wiring not yet detailed	167,258	sf	0.50	83,629		
903	SUBTOTAL					1,218,781	
904							
905	D5020 LIGHTING & POWER						
906	<u>Lighting & Branch Power</u>						
907	Exit sign	4	ea	220.00	880		
908	Exit sign, allow for not yet depicted	56	ea	220.00	12,320		
909	J	11	ea	250.00	2,750		
910	LK24	25	ea	320.00	8,000		
911	LP4	84	ea	320.00	26,880		
912	LP8	420	ea	650.00	273,000		
913	LPD2	41	ea	400.00	16,400		
914	LPD3	30	ea	500.00	15,000		
915	LPD4	13	ea	600.00	7,800		
916	LPG	29	ea	1,000.00	29,000		
917	LR10	6	ea	900.00	5,400		
918	LR2	14	ea	200.00	2,800		
919	LR24	54	ea	260.00	14,040		
920	LR4	161	ea	280.00	45,080		
921	LR4A	32	ea	300.00	9,600		
922	LR6	53	ea	400.00	21,200		
923	LR8	42	ea	550.00	23,100		
924	LR8A	3	ea	600.00	1,800		



Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
925	LRD2	31	ea	400.00	12,400		
926	LRD3	5	ea	500.00	2,500		
927	LRD4	2	ea	600.00	1,200		
928	LS2	40	ea	280.00	11,200		
929	LS4A	1	ea	350.00	350		
930	LS8	46	ea	500.00	23,000		
931	LS8A	20	ea	550.00	11,000		
932	LSV4	5	ea	300.00	1,500		
933	LV4	8	ea	300.00	2,400		
934	LWS	538	lf	120.00	64,560		
935	PC1	12	ea	750.00	9,000		
936	RC1	291	ea	320.00	93,120		
937	RC2	56	ea	320.00	17,920		
938	RCW	6	ea	350.00	2,100		
939	SL4	13	ea	750.00	9,750		
940	SL5	8	ea	650.00	5,200		
941	Lighting allowance	1	ls	50,000.00	50,000		
942	<u>Lighting controls</u>						
943	Networked lighting control system	167,352	sf	1.50	251,028		
944	Single pole switch	7	ea	22.00	154		
945	Single pole low voltage switch	205	ea	25.00	5,125		
946	Single pole switch wp	11	ea	32.00	352		
947	Sk	8	ea	45.00	360		
948	Occupancy sensor	237	ea	220.00	52,140		
949	Photo sensor	86	ea	150.00	12,900		
950	ALC	1	ea	1,500.00	1,500		
951	<u>Branch devices</u>						
952	Duplex receptacle	810	ea	23.00	18,630		
953	Double duplex receptacle	430	ea	46.00	19,780		
954	Double duplex receptacle in floor box	6	ea	46.00	276		
955	GFI duplex receptacle	316	ea	38.00	12,008		
956	Special purpose receptacle	37	ea	75.00	2,775		
957	Cord reel	8	ea	600.00	4,800		
958	2 gang floor box	6	ea	300.00	1,800		
959	Branch device allowance	167,258	sf	0.10	16,726		
960	<u>Lighting and branch circuitry</u>						
961	WP device plate	23	ea	16.00	368		
962	Device plate	1,750	ea	4.00	7,000		
963	Device box	3,700	ea	20.00	74,000		
964	3/4" EMT	16,300	lf	6.50	105,950		
965	#12 THHN	100,000	lf	0.75	75,000		
966	Cat cabling	11,000	lf	2.00	22,000		
967	12-2 MC cable	36,600	lf	3.85	140,910		
968	12-3 MC cable	12,200	lf	4.60	56,120		
969	1" conduit in slab	200	lf	9.00	1,800		
970	Branch circuitry	167,258	sf	1.50	250,887		
971	SUBTOTAL					1,966,639	
972							



Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW BUILDING

973	D5030 COMMUNICATION & SECURITY SYSTEMS						
974	<u>Fire Alarm</u>						
975	Fire alarm control panel	1	ea	20,000.00	20,000		
976	Fire alarm remote annunciator	2	ea	1,200.00	2,400		
977	Fire alarm terminal cabinet	2	ea	1,200.00	2,400		
978	Knox box	2	ea	600.00	1,200		
979	Exterior beacon	2	ea	300.00	600		
980	Master box	1	ea	1,600.00	1,600		
981	Bell	2	ea	320.00	640		
982	Manual pull station	24	ea	100.00	2,400		
983	Smoke/heat detector	129	ea	135.00	17,415		
984	CO detector	21	ea	135.00	2,835		
985	Duct smoke detector, allow	21	ea	400.00	8,400		
986	Audio/visual device	35	ea	135.00	4,725		
987	Audio/visual device with A, not scheduled, allow amber mass notification device	75	ea	150.00	11,250		
988	Speaker light	81	ea	140.00	11,340		
989	A ceiling, not scheduled, allow amber mass notification device	81	ea	135.00	10,935		
990	Visual device	66	ea	120.00	7,920		
991	FP equipment connection	17	ea	150.00	2,550		
992	Kitchen connection	1	ea	150.00	150		
993	Elevator recall connection	2	ea	150.00	300		
994	Gas detection monitor	9	ea	150.00	1,350		
995	Wireguard	4	ea	35.00	140		
996	Control/monitor module	61	ea	150.00	9,150		
997	Device box	640	ea	20.00	12,800		
998	3/4" EMT	3,200	lf	6.50	20,800		
999	#14 THHN	9,500	lf	0.61	5,795		
1000	FA cable	1,600	lf	0.65	1,040		
1001	MC cable	22,000	lf	3.85	84,700		
1002	Testing and programming	1	ls	11,000.00	11,000		
1003	<u>Bi-Directional Amplification System</u>						
1004	BDA	167,352	sf	0.45	75,308		
1005	<u>Security System</u>						
1006	Head-end and mics. increases per engineer	1	ls	50,000.00	50,000		
1007	Proprietary Genetec System, per notes	1	ls	50,000.00	50,000		
1008	AI, video intercom/door release station	4	ea	750.00	3,000		
1009	CCTV camera	78	ea	750.00	58,500		
1010	CCTV camera WP	17	ea	950.00	16,150		
1011	Card reader	32	ea	350.00	11,200		
1012	Keypad	5	ea	350.00	1,750		
1013	Panic button	1	ea	120.00	120		
1014	Motion button	55	ea	120.00	6,600		
1015	Device box with conduit stub	192	ea	85.00	16,320		
1016	Security cabling	11,000	lf	1.25	13,750		
1017	<u>Telephone/Data/CATV</u>						
1018	Telecommunications rough in:						



Design Development Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
1019	MDF fit out	1	ls	2,500.00	2,500		
1020	IDF fit out	3	ea	2,500.00	7,500		
1021	System rack	12	ea	2,000.00	24,000		
1022	Backboard	4	ea	500.00	2,000		
1023	Closet grounding	4	ea	350.00	1,400		
1024	4" conduit sleeves, allow	12	ea	150.00	1,800		
1025	4" conduit, allow 2-4" from MDF to each IDF	1,000	lf	22.00	22,000		
1026	Cable tray, allow	100	lf	35.00	3,500		
1027	1 gang box with 1" conduit	70	ea	95.00	6,650		
1028	1 gang box with 2-1" conduit	455	ea	160.00	72,800		
1029	1 gang box with 1" & 1.25" conduit	216	ea	200.00	43,200		
1030	WAP back box	104	ea	55.00	5,720		
1031	Telecommunications devices & cabling:						
1032	Telephone port	87	ea	18.00	1,566		
1033	1 port device	2	ea	18.00	36		
1034	2 port device	316	ea	36.00	11,376		
1035	3 port device	50	ea	54.00	2,700		
1036	AV, blank cover plate	216	ea	5.00	1,080		
1037	Call button	70	ea	18.00	1,260		
1038	WAP 2 port device	104	ea	300.00	31,200		
1039	Cat cabling	175,000	lf	1.25	218,750		
1040	School wide local area network switches, allow per engineers budget	1	ls	180,000.00	180,000		
1041	Telephone system per 27300	1	ls	70,000.00	70,000		
1042	Digital signage system per engineers budget	1	ls	20,000.00	20,000		
1043	Computer network equipment					FF&E	
1044	Mobile computer carts and lockers					FF&E	
1045	Network printer equipment					FF&E	
1046	Cafeteria point of sale equipment					FF&E	
1047	Visitor management system					FF&E	
1048	Wireless					FF&E	
1049	<u>PA/Clock System</u>						
1050	Head-end	1	ls	20,000.00	20,000		
1051	Clock	132	ea	120.00	15,840		
1052	Speaker ceiling mount	265	ea	120.00	31,800		
1053	Speaker with volume control	113	ea	160.00	18,080		
1054	Speaker wall mount	4	ea	150.00	600		
1055	Speaker back box	378	ea	65.00	24,570		
1056	Device box with conduit stub	136	ea	95.00	12,920		
1057	MC cable	8,000	lf	3.85	30,800		
1058	Speaker cabling	19,000	lf	1.10	20,900		
1059	<u>Audio/Visual systems</u>						
1060	AV equipment					By Owner	
1061	Instructional video presentation equipment					FF&E	
1062	Portable video presentation system equipment					FF&E	
1063	Rack, gym/café	1	ea	15,000.00	15,000		
1064	HS, horn speaker	3	ea			By Owner	
1065	M, microphone	5	ea			By Owner	



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW BUILDING

1066	M2, microphone	1	ea			By Owner	
1067	PC, AV interface outlet	2	ea			By Owner	
1068	Projector	1	ea			By Owner	
1069	S4 Gym interface outlet	8	ea			By Owner	
1070	S4 Ceiling speaker	8	ea			By Owner	
1071	W, assisted listening and microphone antenna	1	ea			By Owner	
1072	WA, assisted listening and microphone antenna	2	ea			By Owner	
1073	Rough-In conduit and backbones only	32	ea	350.00	11,200		
1074	Classroom audio system	66	rooms	2,200.00	145,200		
1075	Cafeteria sound system per engineers budget	1	ls	25,000.00	25,000		
1076	<u>Gymnasium</u>						
1077	Scoreboard with feed and connection	2	ea	15,000.00	30,000		
1078	Backstop feed and connections	2	ea	1,500.00	3,000		
1079	Equipment feed and connections	3	ea	1,500.00	4,500		
1080	Sound system	1	ls	20,000.00	20,000		
1081	<u>Auditorium</u>						
1082	Dimmer system/ stage lighting	1	ls	35,000.00	35,000		
1083	Performance lighting rough-in & power	1	ls	15,000.00	15,000		
1084	TH1	12	ea			Included	
1085	TH2	6	ea			Included	
1086	Audio visual system equipment	1	ls	75,000.00	75,000		
1087	Audio/visual rough-in & power	1	ls	30,000.00	30,000		
1088	SUBTOTAL						1,873,981

D5040 OTHER ELECTRICAL SYSTEMS

1091	<u>Miscellaneous</u>						
1092	Temp power and lights	167,352	sf	0.50	83,676		
1093	Commissioning support	1	ls	15,000.00	15,000		
1094	Coordination and studies	1	ls	50,000.00	50,000		
1095	Seismic restraints	1	ls	10,000.00	10,000		
1096	UL Master Label Lightning Protection System	167,352	sf	0.40	66,941		
1097	Fees & Permits	1	ls	55,000.00	55,000		
1098	SUBTOTAL						280,617

TOTAL - ELECTRICAL

\$5,340,018

E10 EQUIPMENT

E10 EQUIPMENT, GENERALLY

116600 EQUIPMENT

1108	Basketball backstops; swing up; electric operated	6	ea	10,000.00	60,000		
1109	Gym wall pads (north and south walls)	696	sf	18.00	12,528		
1110	Gymnasium roll-up fabric divider; electrically operated	1	loc	30,240.00	30,240		
1111	Miscellaneous equipment; climbing wall, volley ball stanchions etc.	1	ls	2,000.00	2,000		
1112	Telescoping bleachers motorized; 300 person capacity	1	ls	39,000.00	39,000		
1113	Stage curtain and rigging	1	ls	28,000.00	28,000		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW BUILDING

1114	Food Service equipment (dated 2/20/19)	1	ls	486,160.00	486,160		
1115	Defibrillator units	4	ea	1,500.00	6,000		
1116	Microwave	6	loc	800.00	4,800		
1117	Loading dock equipment	1	ls	750.00	750		
1118	Waste compactor; per specifications	1	loc		Assumed FF&E		
1119	Projection screen at platform room facing Café 227" diagonal per specifications	1	ls	4,490.10	4,490		
1120	Projection screen at platform room facing Gym 227" diagonal per specifications	1	ls	5,610.60	5,611		
1121	Projection screen at media/library				none shown		
1122	<u>Items listed as FF&E on estimating supplement #1</u>						
1123	Ride-on floor scrubber machines ; (220 volt power)	2	ea		FF&E		
1124	Backpack vacuums	2	ea		FF&E		
1125	Man-lift/ scissor lift – max 32" wide x 6'-8" tall (Door opening sized)	1	ea		FF&E		
1126	Pallet jack – max 32" wide	1	ea		FF&E		
1127	Desk lifter/ jack/ mover	1	ea		FF&E		
1128	Floor buffer machines	2	ea		FF&E		
1129	Carpet Extractors	2	ea		FF&E		
1130	Rolling metal ladder-stairs - 6' standing height (re. Lowes)	2	ea		FF&E		
1131	Type IA Ladders – (1) 24' extension; (1) 18' extension; (1) 10' scissor type	3	ea		FF&E		
1132	Kiln	2	ea	5,000.00	10,000		
1133	Pottery wheel	2	ea		FF&E		
1134	Washer/dryer pair, locate in Recycling Room #1154	1	pr	5,000.00	5,000		
1135	Washer/dryer pair, locate in Custodial Storage #2109	1	pr	5,000.00	5,000		
1136	Full-Size Refrigerator/Freezers with water/ice hookup	5	ea	2,000.00	10,000		
1137	SUBTOTAL					709,579	
1138							
1139	TOTAL - EQUIPMENT						\$709,579

E20 FURNISHINGS

E2010 FIXED FURNISHINGS

123553	CASEWORK						
	Art	2	rms				
	Base cabinet with plam counter	70	lf	400.00	28,000		
	Upper cabinets - 36" high	36	lf	250.00	9,000		
	Cafeteria						
	Recycling counter 7'-0" wide	2	lf	600.00	1,200		
	Collaboration	6	rms				
	2 tier wall shelving	27	lf	120.00	3,240		
	3 tier wall shelving	181	lf	160.00	28,960		
	Base cabinet with plam counter	41	lf	400.00	16,400		
	TW 36 with markerboard on doors	8	ea	2,000.00	16,000		
	TS 36 lockable	2	ea	1,650.00	3,300		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
1158	TS 36 with markerboard on doors	16	ea	1,800.00	28,800		
1159	Wall hung counter	215	lf	250.00	53,750		
1160	<i>Copy / Mail room</i>						
1161	Base cabinet with plam counter	18	lf	400.00	7,200		
1162	Island counter with base cabinet 4'-2" wide	15	lf	800.00	12,000		
1163	Upper mail slots at copy mail room	18	lf	700.00	12,600		
1164	<i>Classrooms- Second floor (AQ1.55 per supplement #4)</i>	16	rms				
1165	Base cabinet with plam counter	304	lf	400.00	121,600		
1166	Laptop cart cabinet 36	16	ea	1,700.00	27,200		
1167	Open base shelving with counter 2 tier	224	lf	360.00	80,640		
1168	Open base shelving with counter, 3 tier	80	lf	385.00	30,800		
1169	TS 36	16	ea	1,600.00	25,600		
1170	TW 36	16	ea	1,800.00	28,800		
1171	Upper cabinets - 32" high	234	lf	230.00	53,820		
1172	<i>Classrooms- Third floor (AQ1.55 per supplement #4)</i>	24	rms				
1173	Base cabinet with plam counter	240	lf	400.00	96,000		
1174	Laptop cart cabinet 36	24	ea	1,700.00	40,800		
1175	Open base shelving with counter 2 tier	336	lf	360.00	120,960		
1176	Open base shelving with counter, 3 tier	120	lf	385.00	46,200		
1177	Shallow base cabinet with counter	192	lf	300.00	57,600		
1178	TS 36	48	ea	1,600.00	76,800		
1179	Upper cabinets - 32" high	288	lf	230.00	66,240		
1180	<i>Connect 2220</i>						
1181	Base cabinet with 5 drawers and counter	2	lf	440.00	880		
1182	Base cabinet with plam counter	16	lf	400.00	6,400		
1183	Laptop cart cabinet 36	1	ea	1,700.00	1,700		
1184	Open base shelving with counter 2 tier	19	lf	360.00	6,840		
1185	TS 36	2	ea	1,600.00	3,200		
1186	Upper cabinets - 24" high	3	lf	190.00	570		
1187	Upper cabinets - 32" high	15	lf	230.00	3,450		
1188	<i>Connect 3219</i>						
1189	Base cabinet with plam counter	21	lf	400.00	8,400		
1190	Laptop cart cabinet 36	1	ea	1,700.00	1,700		
1191	Open base shelving with counter 2 tier	20	lf	360.00	7,200		
1192	TS 36	4	ea	1,600.00	6,400		
1193	TS 42	2	ea	2,000.00	4,000		
1194	Upper cabinets - 24" high	3	lf	190.00	570		
1195	Upper cabinets - 32" high	18	lf	230.00	4,140		
1196	<i>Custodial shop</i>						
1197	Work bench	13	lf	600.00	7,800		
1198	<i>ELA</i>						
1199	Base cabinet with plam counter	154	lf	400.00	61,600		
1200	Freestanding storage				shown as dashed- NIC		
1201	<i>Ensemble</i>						
1202	Base cabinet with plam counter	12	lf	400.00	4,800		
1203	<i>Exam</i>						



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
1204	TS 36	1	ea	1,600.00	1,600		
1205	TW 36	1	ea	1,800.00	1,800		
1206	Upper cabinets - 36" high	6	lf	250.00	1,500		
1207	Wall hung counter	10	lf	250.00	2,500		
1208	<i>IT office/repair</i>						
1209	2 tier wall shelving	18	lf	120.00	2,160		
1210	Base cabinet with plam counter	18	lf	400.00	7,200		
1211	<i>Kindergarten (AQ1.50 per supplement #4)</i>	9	rms				
1212	2'-9"x56" Double cubbie	99	lf	750.00	74,250		
1213	Base cabinet with 6 drawers and counter	18	lf	460.00	8,280		
1214	Base cabinet with plam counter	162	lf	400.00	64,800		
1215	Laptop cart cabinet 36	9	ea	1,700.00	15,300		
1216	Open base shelving with counter 2 tier	90	lf	360.00	32,400		
1217	Shallow base cabinet with counter	81	lf	300.00	24,300		
1218	Trash recycling receptacle 2'-9" wide	9	ea		NIC		
1219	TS 36	9	ea	1,600.00	14,400		
1220	TW 36	9	ea	1,800.00	16,200		
1221	Upper cabinets - 24" high	27	lf	190.00	5,130		
1222	Upper cabinets - 32" high	108	lf	230.00	24,840		
1223	Upper cabinets above cubbies 30"	99	lf	210.00	20,790		
1224	<i>Maker space</i>						
1225	Base cabinet with 4 tier open shelving above	12	lf	700.00	8,400		
1226	Base cabinet with plam counter	28	lf	400.00	11,200		
1227	TS 33 with markerboard surface on face of door	6	ea	1,600.00	9,600		
1228	TS 33 with peg board on inside of door and markerboard surface on face of door	2	ea	1,600.00	3,200		
1229	Upper cabinets - 24" high	6	lf	190.00	1,140		
1230	Upper cabinets - 30" high	15	lf	210.00	3,150		
1231	Wall hung counter	7	lf	250.00	1,750		
1232	54" x 54" shop tables with lockers underneath	2	loc		FF&E		
1233	<i>Music</i>	2	rms				
1234	Open base shelving with counter, 3 tier	68	lf	385.00	26,180		
1235	Music storage at music room 8' wide	6	ea	6,000.00	36,000		
1236	<i>Music storage</i>						
1237	TS 36	2	ea	1,600.00	3,200		
1238	<i>Nurse office/waiting room</i>						
1239	Base cabinet with plam counter	5	lf	400.00	2,000		
1240	Upper cabinets - 24" high	3	lf	190.00	570		
1241	Upper cabinets - 36" high	2	lf	250.00	500		
1242	<i>Office/ work room 1202B</i>						
1243	Wall hung counter	17	lf	250.00	4,250		
1244	<i>OT 1132</i>						
1245	3 tier wall shelving	6	lf	160.00	960		
1246	TW 48	2	ea	2,400.00	4,800		
1247	<i>Pre-K (AQ1.50 per supplement #4)</i>	4	rms				
1248	2'-9"x56" Double cubbie	44	lf	750.00	33,000		
1249	Base cabinet with 6 drawers and counter	8	lf	460.00	3,680		
1250	Base cabinet with plam counter	72	lf	400.00	28,800		
1251	Laptop cart cabinet 36	4	ea	1,700.00	6,800		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
1252	Open base shelving with counter 2 tier	40	lf	360.00	14,400		
1253	Shallow base cabinet with counter	36	lf	300.00	10,800		
1254	Trash recycling receptacle 2'-9" wide	4	ea		NIC		
1255	TS 36	4	ea	1,600.00	6,400		
1256	TW 36	4	ea	1,800.00	7,200		
1257	Upper cabinets - 24" high	12	lf	190.00	2,280		
1258	Upper cabinets - 32" high	48	lf	230.00	11,040		
1259	Upper cabinets above cubbies 30"	44	lf	210.00	9,240		
1260	<i>Principals secretary</i>						
1261	Wall hung counters	12	lf	250.00	3,000		
1262	<i>Pre-K rise</i>						
1263	2'-9"x56" Double cubbie	17	lf	750.00	12,750		
1264	Base cabinet with 6 drawers and counter	2	lf	460.00	920		
1265	Base cabinet with plam counter	18	lf	400.00	7,200		
1266	Laptop cart cabinet 36	1	ea	1,700.00	1,700		
1267	Open base shelving, 3 tier	29	lf	265.00	7,685		
1268	TS 36	1	ea	1,600.00	1,600		
1269	Upper cabinets - 24" high	3	lf	190.00	570		
1270	Upper cabinets - 32" high	17	lf	230.00	3,910		
1271	Upper cabinets above cubbies 30"	16	lf	210.00	3,360		
1272	<i>PT 1133</i>						
1273	3 tier wall shelving	16	lf	160.00	2,560		
1274	Base cabinet with plam counter	4	lf	400.00	1,600		
1275	Open base shelving, 2 tier	18	lf	240.00	4,320		
1276	TS 48	3	ea	2,200.00	6,600		
1277	<i>Resource room</i>						
1278	2 tier wall shelving	11	lf	120.00	1,320		
1279	Open base shelving with counter 2 tier	5	lf	360.00	1,800		
1280	Wall hung counter	11	lf	250.00	2,750		
1281	<i>Rise 2223</i>						
1282	Base cabinet with plam counter	21	lf	400.00	8,400		
1283	Laptop cart cabinet 36	1	ea	1,700.00	1,700		
1284	Open base shelving with counter, 3 tier	22	lf	385.00	8,470		
1285	TS 36	1	ea	1,600.00	1,600		
1286	Upper cabinets - 24" high	3	lf	190.00	570		
1287	Upper cabinets - 32" high	18	lf	230.00	4,140		
1288	<i>Rise 3221</i>						
1289	Base cabinet with plam counter	18	lf	400.00	7,200		
1290	Laptop cart cabinet 36	1	ea	1,700.00	1,700		
1291	Open base shelving with counter 2 tier	17	lf	360.00	6,120		
1292	TS 36	2	ea	1,600.00	3,200		
1293	TS 39	1	ea	1,800.00	1,800		
1294	Upper cabinets - 24" high	15	lf	190.00	2,850		
1295	Upper cabinets - 32" high	14	lf	230.00	3,220		
1296	<i>Staff dining</i>						
1297	Base cabinet with plam counter	13	lf	400.00	5,200		
1298	Upper cabinets - 36" high	13	lf	250.00	3,250		
1299	<i>Student services vestibule/copy</i>						
1300	3 tier wall shelving	14	lf	160.00	2,240		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW BUILDING								
1301	Base cabinet with plam counter	36	lf	400.00	14,400			
1302	TS 36	9	ea	1,600.00	14,400			
1303	Upper cabinets - 36" high	36	lf	250.00	9,000			
1304	Wall hung counter	14	lf	250.00	3,500			
1305	<i>Student services</i>							
1306	3 tier wall shelving	86	lf	160.00	13,760			
1307	Wall hung counter	102	lf	250.00	25,500			
1308	<i>Title 1 office</i>							
1309	5 tier wall shelving	24	lf	250.00	6,000			
1310	TW 36	8	ea	1,800.00	14,400			
1311	Wall hung counter	25	lf	250.00	6,250			
1312	<i>Miscellaneous</i>							
1313	<i>Mobile units</i>							
1314	Closet shelving	1	ls	10,000.00	10,000			
1315								
1316	122100 WINDOW TREATMENT							
1317	Window blinds at interior doors, sidelights, storefront and borrowed light openings	5,875	sf	8.00	47,000			
1318	Window shades at exterior glazing	17,485	sf	7.00	122,395			
1319	Premium for motorized shades	1,142	sf	20.00	22,840			
1320								
1321	124810 ENTRANCE FLOOR MAT AND FRAMES							
1322	Foot grilles	1,009	sf	55.00	55,495			
1323	SUBTOTAL						2,281,395	
1324								
1325	E2020 MOVABLE FURNISHINGS							
1326	All movable furnishings to be provided and installed by owner							
1327	SUBTOTAL						NIC	
1328								
1329	TOTAL - FURNISHINGS							\$2,281,395
1330								
1331								
1332	F10 SPECIAL CONSTRUCTION							
1333								
1334	F10 SPECIAL CONSTRUCTION							
1335	No items in this section							
1336	SUBTOTAL							
1337								
1338	TOTAL - SPECIAL CONSTRUCTION							
1339								
1340								
1341	F20 SELECTIVE BUILDING DEMOLITION							
1342								
1343	F2010 BUILDING ELEMENTS DEMOLITION							
1344	No items in this section							
1345	SUBTOTAL							
1346								
1347	F2020 HAZARDOUS COMPONENTS ABATEMENT							
1348	See main summary for HazMat allowance						See Summary	
1349	SUBTOTAL							
1350								
1351	TOTAL - SELECTIVE BUILDING DEMOLITION							



Design Development Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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SITWORK

G	SITWORK
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G10 SITE PREPARATION & DEMOLITION

Site Demolitions and Relocations

Site construction fence/barricades allowance	5,500	lf	25.00	137,500
Site construction fence/barricades allowance phase allowance	2,640	lf	25.00	66,000
Jersey barriers	1	ls	29,600.00	29,600
Allowance for clearing & grubbing at North wood area	5	acres	6,500.00	32,500
Clearing existing shrubs	500	sf	3.00	1,500
Demolition of existing concrete sidewalks / pads / etc.	17,363	sf	1.25	21,704
Demolition of existing bituminous concrete / crush and re use for base	107,450	sf	1.25	134,313
Demolition of existing wooded fiber mulch	12,920	sf	1.00	12,920
Sawcut existing pavement	70	lf	8.00	560
Demolition of existing overhead electric and pole	525	lf	12.00	6,300
Demolition of existing hydrant	2	ea	400.00	800
Demolition of existing sewer line	815	lf	10.00	8,150
Demolition of existing water line	1,400	lf	10.00	14,000
Demolition of existing drainage lateral	52	lf	10.00	520
Demolition of existing gas service line	300	lf	10.00	3,000
Cut and cap gas service	1	loc	1,500.00	1,500
Cut and cap water service	2	loc	1,500.00	3,000
Cut and cap sewer service	1	loc	1,500.00	1,500
Demolition of existing 2" metal guardrail	130	lf	10.00	1,300
Demolition of existing backstop	1	loc	1,000.00	1,000
Demolition of existing dugouts and footings	2	loc	1,200.00	2,400
Demolition of existing gazebo and footings	1	loc	1,200.00	1,200
Demolition of existing concessions stand and steps	1	loc	1,500.00	1,500
Demolition of existing infield mix	19,550	sf	1.00	19,550
Demolition of existing concrete feature	1	loc	500.00	500
Demolition of existing trees	3	ea	1,000.00	3,000
Demolition of existing benches	10	ea	150.00	1,500
Demolition of existing sign	1	ea	500.00	500
Demolition of existing bleachers	1	loc	750.00	750
Demolition of existing bollards	3	ea	75.00	225
Demolition of existing boulder	1	ea	200.00	200
Demolition of existing concrete walls	90	lf	15.00	1,350
Demolition of existing steps	80	lf	10.00	800
Demolition of existing segmental retaining walls	225	lf	15.00	3,375
Demolition of existing drain manhole	1	ea	250.00	250
Demolition of existing catch basin	3	ea	200.00	600
Demolition of existing flagpole	1	ea	500.00	500
Demolition of existing 36" RCP drainage line	1,018	lf	20.00	20,360
Demolition of existing fence	1,465	lf	10.00	14,650
Demolition of existing railings	110	lf	10.00	1,100
Demolition of existing landscape timber wall	505	lf	10.00	5,050
Demolition of existing play equipment	1	ls	3,500.00	3,500
Misc. site demo - fencing, retaining walls, etc.	1	ls	25,000.00	25,000



Design Development Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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SITWORK

49	Site Earthwork						
50	Strip topsoil	11,448	cy	7.00	80,136		
51	Cut unsuitables under building	4,626	cy	10.00	46,260		
52	Cut	18,682	cy	10.00	186,820		
53	Fill w/ existing material; general; geotechnical report indicates existing material may be suitable for general fill	24,251	cy	14.00	339,514		
54	Remove excess material off site; assumed clean material	943	cy	16.00	15,088		
55	Reconciled cost for ledge removal	1	ls	150,000.00	150,000		
56	Sheeting along retaining wall	1	ls	200,000.00	200,000		
57	Allowance for boulder removal	1	ls	50,000.00	50,000		
58	Fine grading	74,084	sy	1.25	92,605		
59	Silt fence/erosion control	5,280	lf	12.00	63,360		
60	Silt fence/erosion control	2,600	lf	12.00	31,200		
61	Construction entrances	1,250	sf	6.00	7,500		
62	Inlet protection	110	ea	325.00	35,750		
63	Erosion control maintenance	1	ls	30,000.00	30,000		
64	<u>Hazardous Waste Remediation</u>						
65	Contaminated soil allowance	1	ls	100,000.00	NIC		
66	SUBTOTAL					1,913,760	

G20 SITE IMPROVEMENTS

67							
68	<u>Roadways and Parking Lots</u>	181,166	sf				
69	gravel base; 8" thick	4,496	cy	40.00	179,840		
70	gravel base; 4" thick	2,214	cy	40.00	88,560		
71	Asphalt paving; 4" thick	20,130	sy	28.00	563,640		
72	VGC	9,215	lf	38.00	350,170		
73	Flush VGC	66	lf	38.00	2,508		
74	Concrete curb	290	lf	22.00	6,380		
75	Cape Cod Berm - 2"	1,580	lf	14.00	22,120		
76	Single solid lines, 4" thick	234	spc	20.00	4,680		
77	HC Parking solid lines, 4" thick	8	spc	75.00	600		
78	Other road markings	1	ls	7,500.00	7,500		
79	Crosswalk	9	ea	1,200.00	10,800		
80	Tactile warning surface	4	ea	350.00	1,400		
81	Curb cut	18	ea	350.00	6,300		
82	Signage	55	ea	350.00	19,250		
83	<u>Pedestrian paving</u>						
84	Bituminous concrete paving - play area / basketball court - 3 1/4" with color seal coat and line striping; 2 surface colors & markings	5,900	sf	12.00	70,800		
85	gravel base; 12" thick	219	cy	40.00	8,760		
86	<u>Precast Pavers</u>						
87	Bituminous base material for precast pavers - 3"	1,150	sf	3.00	3,450		
88	Precast unit pavers	1,150	sf	16.00	18,400		
89	Paving band	225	lf	18.00	4,050		
90	Stone dust paths	810	sf	7.50	6,075		
91	Mulch paths	1,675	sf	4.00	6,700		
92	Concrete paving						
93	concrete sidewalk gravel base - 6"	962	cy	40.00	38,480		
94	concrete; 4" thick	51,951	sf	9.00	467,559		
95	Bit concrete walkway						
96							



Design Development Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITWORK							
97	gravel base - 6"	31	cy	40.00	1,240		
98	bit concrete; 3" thick	1,700	sf	8.00	13,600		
99	HD Concrete paving						
100	HD concrete gravel base - 12"	7	cy	40.00	280		
101	HD concrete pads; 6" thick	200	sf	12.00	2,400		
102	Generator crushed stone bed	400	sf	6.00	2,400		
103	Playground - poured rubber play surface	13,700	sf	18.00	246,600		
104	<u>Site Masonry</u>						
105	Masonry seat walls	60	lf	425.00	25,500		
106	Masonry piers at ornamental fence along Centre street	7	ea	4,000.00	28,000		
107	Masonry veneer at entry signs / features	6	ea	20,000.00	120,000		
108	Segmental retaining wall	1	ls	156,040.00	156,040		
109	Guardrail at top of retaining wall	190	lf	65.00	12,350		
110	<u>Stairs and Ramps</u>						
111	Concrete to stair treads	74	lfr	190.00	14,060		
112	Ornamental metal hand railings w/ light - galv at stairs	30	lf	160.00	4,800		
113	Cheek walls	16	lf	200.00	3,200		
114	<u>Fencing</u>						
115	Vinyl clad CLF - 4' high	3,558	lf	40.00	142,320		
116	Vinyl clad CLF - 4' high gates, single	12	ea	800.00	9,600		
117	Vinyl clad CLF - 4' high gates, double	2	ea	1,600.00	3,200		
118	Ornamental Fencing - 4' high	312	lf	90.00	28,080		
119	Ornamental Fencing - 4' high gates	2	ea	2,500.00	5,000		
120	Ornamental Fencing - 6' high	582	lf	100.00	58,200		
121	Ornamental Fencing - 6' high gates	2	ea	8,000.00	16,000		
122	Vinyl clad CLF at basketball - 6'	190	lf	50.00	9,500		
123	Vinyl clad CLF - 6' high gates, single	1	ea	1,000.00	1,000		
124	Vinyl clad CLF - 6'	642	lf	50.00	32,100		
125	Wood fence type B- cedar	113	lf	150.00	16,950		
126	Wood fence type A- stockade	626	lf	55.00	34,430		
127	Wood and wire fence	172	lf	55.00	9,460		
128	Wood and wire fence gates, single	1	ea	800.00	800		
129	Wood and wire fence gates, double	1	ea	1,600.00	1,600		
130	Wood fence allowance	1,000	lf	75.00	75,000		
131	<u>Site Improvements</u>						
132	50' high flagpole	1	ea	10,000.00	10,000		
133	36" Pipe rail @ loading dock North wall	55	lf	150.00	8,250		
134	Utility Bollards	12	ea	800.00	9,600		
135	Trash receptacles	4	ea	1,750.00	7,000		
136	Bike Racks	20	ea	1,500.00	30,000		
137	Wood round seats	20	ea	600.00	12,000		
138	Benches	4	ea	2,800.00	11,200		
139	Café tables and chairs	15	ea	1,600.00	24,000		
140	Garden raised beds - field built	12	ea	1,200.00	14,400		
141	Garden ADA beds - field built	3	ea	1,200.00	3,600		
142	Utility Shed	360	sf	25.00	9,000		
143	Baseball backstop, bleachers & benches	1	loc	40,000.00	40,000		
144	Softball backstop, bleachers & benches	1	loc	25,000.00	25,000		
145	Basketball hoops	1	ea	2,500.00	2,500		



Design Development Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITWORK							
146	Soccer Goals	12	ea	1,500.00	18,000		
147	Playground equipment (per D&W email 3/13/19)	1	ls	492,154.00	492,154		
148	<u>Landscaping + Sports Fields</u>						
149	gravel base; assume 12" thick	5,446	cy	35.00	190,610		
150	Baseball/softball fields; seed	68,000	sf	0.35	23,800		
151	Infield mix	17,000	sf	1.00	17,000		
152	Foul poles / pitcher mound / bases	2	loc	10,000.00	20,000		
153	Soccer fields; seed	62,042	sf	0.35	21,715		
154	Soil amend existing stockpiled soil; assumed amend (spec calls for new topsoil)	12,448	cy	30.00	373,440		
155	Planter beds topsoil - 18"	1,095	cy	50.00	54,750		
156	Upland Seed Mix	230,900	sf	0.25	57,725		
157	Wetland Seed Mix	33,540	sf	0.25	8,385		
158	<u>Evergreen Trees</u>						
159	Eastern Red Cedar 7' - 8' ht	30	ea	1,000.00	30,000		
160	White Spruce 10' - 12' ht	71	ea	1,500.00	106,500		
161	Green Giant' Arborvitae 10' - 12' ht	13	ea	1,500.00	19,500		
162	<u>Deciduous Trees</u>						
163	October Glory' Red Maple 3 - 3.5" cal	47	ea	1,000.00	47,000		
164	Autumn Gold' Maidenhair Tree 2.5 - 3.0" cal	3	ea	937.50	2,813		
165	Shademaster' Thornless Honeylocust 3 - 3.5" cal	70	ea	1,000.00	70,000		
166	<u>Ornamental Trees</u>						
167	Allegheny Serviceberry 7' - 8'	8	ea	1,000.00	8,000		
168	Japanese Maple - Upright Green 2 - 2.5" cal	2	ea	750.00	1,500		
169	Seven Son Flower 7' - 8'	1	ea	1,000.00	1,000		
170	Arnold Promise' Witch Hazel 25gal	1	ea	1,000.00	1,000		
171	Donald Wyman' Crabapple 1.5 - 2" cal	10	ea	625.00	6,250		
172	Sugar Tyme' Crabapple 1.5 - 2" cal	1	ea	625.00	625		
173	<u>Deciduous Trees</u>						
174	Rose Creek' Compact Abelia 3gal	68	ea	187.50	12,750		
175	Arnold Dwarf' Forsythia 3gal	50	ea	187.50	9,375		
176	Berry Poppins' Dwarf Winterberry 3gal	6	ea	187.50	1,125		
177	Mr Poppins' Dwarf Male Winterberry 3gal	2	ea	187.50	375		
178	California Privet 7gal	78	ea	375.00	29,250		
179	Gro-low Fragrant Sumac 2gal	162	ea	125.00	20,250		
180	Miss-Kim' Compact Lilac 5gal	11	ea	300.00	3,300		
181	Bailey Compact' Cranberrybush Viburnum 5gal	22	ea	300.00	6,600		
182	<u>Evergreen Shrubs</u>						
183	Shamrock' Compact Inkberry 5gal	178	ea	300.00	53,400		
184	Blue Pacific' Shore Juniper 3gal	402	ea	187.50	75,375		
185	Green Sargent' Shore Juniper 3gal	18	ea	187.50	3,375		
186	<u>Perennials, Groundcover & Vines</u>						
187	Blue Ice' Compact Bluestar 1gal	68	ea	15.00	1,020		
188	Hay-Scented Fern 1gal	18	ea	15.00	270		
189	Native Trumpet Honeysuckle 2gal	4	ea	30.00	120		
190	Irrigation				not required		
191	SUBTOTAL					4,956,634	
192	G30 CIVIL MECHANICAL UTILITIES						
193	<u>Water supply</u>						
194	Connect to existing water	2	ea	6,000.00	12,000		



Design Development Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITework							
196	Corporation stop	3	ea	800.00	2,400		
197	Gate valves	15	ea	1,200.00	18,000		
198	Hose bib	1	ea	600.00	600		
199	Hydrant	2	ea	5,000.00	10,000		
200	2" copper	870	lf	45.00	39,150		
201	Yard hydrant in 2 x 2 concrete box	4	ea	3,000.00	12,000		
202	DI Water line - 6"	230	lf	80.00	18,400		
203	DI Water line - 8"	2,630	lf	100.00	263,000		
204	<u>Storm Sewer</u>						
205	Bio retention basins	33,540	sf	10.00	335,400		
206	Drain Manholes	66	ea	4,500.00	297,000		
207	Drain Manholes - 36" line	2	ea	8,000.00	16,000		
208	Drain Manholes - 6' Doghouse	1	ea	6,000.00	6,000		
209	Catch Basins	67	sf	4,200.00	281,400		
210	Double Catch Basins	2	sf	7,500.00	15,000		
211	Area Drains	24	ea	1,750.00	42,000		
212	Roof Drain connections	8	ea	600.00	4,800		
213	FES - Flared End Sections	8	ea	1,250.00	10,000		
214	WQS - Water Quality Structures	3	ea	15,000.00	45,000		
215	OCS - Outlet Control Structures	3	ea	10,000.00	30,000		
216	Connect to existing drain	1	ea	3,500.00	3,500		
217	Connect to existing headwall	1	ea	2,500.00	2,500		
218	UD	2,420	lf	50.00	121,000		
219	CPP - 6"	1,138	lf	48.00	54,624		
220	CPP - 12"	5,250	lf	55.00	288,750		
221	CPP - 18"	1,626	lf	65.00	105,690		
222	CPP - 24"	300	lf	80.00	24,000		
223	CPP - 36"	740	lf	115.00	85,100		
224	DI - 36"	325	lf	160.00	52,000		
225	Trench drain	18	lf	120.00	2,160		
226	<u>Underground Detention #2</u>						
227	Excavate and dispose on site for detention systems	2,574	cy	12.00	30,888		
228	Back-fill infiltration bed with 3/4" crushed stone wrapped in filter fabric	1,544	cy	40.00	61,760		
229	SC - 740 chambers	380	ea	650.00	247,000		
230	<u>Underground Detention #3</u>						
231	Excavate and dispose on site for detention systems	1,644	cy	12.00	19,728		
232	Back-fill infiltration bed with 3/4" crushed stone wrapped in filter fabric	986	cy	40.00	39,440		
233	SC - 740 chambers	192	ea	650.00	124,800		
234	<u>Underground Detention #4</u>						
235	Excavate and dispose on site for detention systems	667	cy	12.00	8,004		
236	Back-fill infiltration bed with 3/4" crushed stone wrapped in filter fabric	400	cy	40.00	16,000		
237	SC - 740 chambers	72	ea	650.00	46,800		
238	<u>Underground Detention #4A</u>						
239	Excavate and dispose on site for detention systems	667	cy	12.00	8,004		
240	Back-fill infiltration bed with 3/4" crushed stone wrapped in filter fabric	400	cy	40.00	16,000		
241	SC - 740 chambers	72	ea	650.00	46,800		
242	<u>Sanitary Sewer</u>						



Design Development Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITework							
243	Connect to existing sewer	1	ea	7,500.00	7,500		
244	Sanitary Sewer Manholes	10	sf	3,800.00	38,000		
245	E&B Grease tank	1	ea	4,000.00	4,000		
246	Sanitary Sewer line - 4"	10	lf	40.00	400		
247	Sanitary Sewer line - 6"	130	lf	45.00	5,850		
248	Sanitary Sewer line - 8"	1,340	lf	60.00	80,400		
249	<u>Gas and Telecom service</u>						
250	E&B trench for new lines, pipe and install by utilities						
251	New gas service from Centre street	1,000	lf	22.00	22,000		
252	New telecom service from Centre Street	590	lf	22.00	12,980		
253							
254	SUBTOTAL					3,033,828	
255							
256	G40 ELECTRICAL UTILITIES						
257	Power riser	1	ea	2,000.00	2,000		
258	Primary ductbank AA 2-5" empty conduit	920	lf	45.00	41,400		
259	Pad mount transformer	1	ea		Utility co		
260	Secondary ductbank BB 4-4" with 2500A feed	240	lf	410.00	98,400		
261	Generator ductbank EE with feeders	230	lf	320.00	73,600		
262	Communication riser	1	ea	2,500.00	2,500		
263	Communication ductbank CC 4-4" empty conduit	790	lf	80.00	63,200		
264	Communication handhole	3	ea	1,200.00	3,600		
265	Site lighting circuitry: 2#8 & #10 in 1" c	6,000	lf	9.00	54,000		
266	Fixture SL1/3	20	ea	2,800.00	56,000		
267	Fixture SL2/3	14	ea	3,800.00	53,200		
268	Fixture SL3/4	15	ea	2,500.00	37,500		
269	Pole base grounding and bonding	47	ea	150.00	7,050		
270	Pull box	1	ls	450.00	450		
271	1" conduit from PB	500	lf	9.00	4,500		
272	Civil:						
273	Excavation, DB AA, BB, EE, CC	2,180	lf	20.00	43,600		
274	Concrete, DB AA, BB, EE, CC	2,180	lf	25.00	54,500		
275	Excavation, site lighting & PB circuitry	6,500	lf	5.00	32,500		
276	Pad mount transformer pad	1	ea	2,200.00	2,200		
277	Power manhole	2	ea	4,500.00	9,000		
278	Pole base	47	ea	700.00	32,900		
279	SUBTOTAL					672,100	
280							
281	TOTAL - SITE DEVELOPMENT						\$10,576,322



Northbridge – Balmer Elementary School Design Development Estimate – Post Reconciliation

March 18, 2019

FONTAINE BROS., INC. | T: 413.781.2020 | 510 COTTAGE STREET SPRINGFIELD, MA 01104 | 12 E. WORCESTER STREET WORCESTER, MA 01604


FONTAINE BROS., INC.

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Design Development Budget Estimate Uniformat

Estimate Totals

Description	Amount	Totals	Rate	Cost per Unit	
Direct Cost	65,388,528	65,388,528		390.725 /sf	82.27%
Design Contingency	3,923,312		6.000 %		
Escalation	1,987,011		2.500 %		
Construction Contingency	1,192,207		1.500 %		
Subtotal	7,102,530	72,491,058			91.21%
General Conditions & Requirements					
Staff/ General Conditions	5,364,384				
Subtotal	5,364,384	77,855,442		465.220 /sf	97.96%
Permits & Insurance Requirements					
General Liability Insurance					
Performance & Payment Bonds					
Builders Risk Insurance					
Permits - By Town					
Subtotal		77,855,442		465.220 /sf	97.96%
CM Fee (OH&P)	1,625,000			9.710 /sf	
Subtotal	1,625,000	79,480,442		474.930 /sf	100.00%
Project GSF 167,352					
PFA \$79,492,662					
Total		79,480,442		474.930 /sf	

Design Development Budget Estimate Uniformat

2019_03_18 Reconciled

Description	Quantity	Total	
		Unit Cost	Amount
SUBSTRUCTURE			
FOUNDATIONS			
Standard Foundations	167,352.00 sf	8.043/sf	1,346,053
Slab on Grade	167,352.00 sf	11.455/sf	1,917,005
A10 FOUNDATIONS		19.498/sf	3,263,058
167,352.00 sf			
A SUBSTRUCTURE		19.498/sf	3,263,058
167,352.00 sf			
SHELL			
SUPERSTRUCTURE			
Floor Construction	167,352.00 sf	20.481/sf	3,427,556
Roof Construction	167,352.00 sf	19.397/sf	3,246,148
B10 SUPERSTRUCTURE		39.878/sf	6,673,703
167,352.00 sf			
EXTERIOR VERTICAL ENCLOSURES			
Exterior Walls	167,352.00 sf	45.556/sf	7,623,807
Exterior Windows	167,352.00 sf	12.29 /sf	2,056,705
Exterior Doors	167,352.00 sf	1.066/sf	178,430
B20 EXTERIOR VERTICAL ENCLOSURES		58.911/sf	9,858,942
167,352.00 sf			
EXTERIOR HORIZONTAL ENCLOSURES			
Roof Coverings	167,352.00 sf	12.891/sf	2,157,349
Roof Openings	167,352.00 sf	0.775/sf	129,765
B30 EXTERIOR HORIZONTAL ENCLOSURES		13.666/sf	2,287,114
167,352.00 sf			
B SHELL		112.456/sf	18,819,759
167,352.00 sf			
INTERIORS			
INTERIOR CONSTRUCTION			
Interior Partitions	167,352.00 sf	21.946/sf	3,672,726
Interior Doors	167,352.00 sf	7.361/sf	1,231,881

Design Development Budget Estimate Uniformat

2019_03_18 Reconciled

Description	Quantity		Total	
			Unit Cost	Amount
Fittings	167,352.00	sf	8.594/sf	1,438,295
C10 INTERIOR CONSTRUCTION			37.902/sf	6,342,902
167,352.00	sf			
STAIRS				
Stair Construction	167,352.00	sf	2.453/sf	410,520
Stair Finishes	167,352.00	sf	0.66 /sf	110,506
C20 STAIRS			3.113/sf	521,026
167,352.00	sf			
INTERIOR FINISHES				
Wall Finishes	167,352.00	sf	4.874/sf	815,629
Floor Finishes	167,352.00	sf	8.952/sf	1,498,152
Ceiling Finishes	167,352.00	sf	8.36 /sf	1,399,114
C30 INTERIOR FINISHES			22.186/sf	3,712,895
167,352.00	sf			
C INTERIORS			63.201/sf	10,576,823
167,352.00	sf			
SERVICES				
CONVEYING				
Vertical Conveying Systems	167,352.00	sf	0.951/sf	159,153
D10 CONVEYING			0.951/sf	159,153
167,352.00	sf			
PLUMBING				
Plumbing Fixtures	167,352.00	sf	2.998/sf	501,742
Domestic Water Distribution	167,352.00	sf	2.20 /sf	368,176
Sanitary Waste	167,352.00	sf	1.885/sf	315,470
Rain Water Drainage	167,352.00	sf	1.443/sf	241,461
Other Plumbing Systems	167,352.00	sf	2.08 /sf	348,100
D20 PLUMBING			10.606/sf	1,774,949
167,352.00	sf			
HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)				
Heat Generating Systems	167,352.00	sf	1.79 /sf	299,500
Cooling Generating Systems	167,352.00	sf	0.865/sf	144,800
Distribution Systems	167,352.00	sf	5.099/sf	853,275
Other HVAC Systems And Equipment	167,352.00	sf	33.103/sf	5,539,906
D30 HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)			40.857/sf	6,837,481
167,352.00	sf			

Design Development Budget Estimate Uniformat

2019_03_18 Reconciled

Description	Quantity	Total	
		Unit Cost	Amount
D30 HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)			
		40.857/sf	6,837,481
167,352.00 sf			
FIRE PROTECTION			
Sprinklers	167,352.00 sf	0.353/sf	59,030
Other Fire Protection Systems	167,352.00 sf	4.575/sf	765,669
D40 FIRE PROTECTION		4.928/sf	824,699
167,352.00 sf			
ELECTRICAL			
Electrical Service And Distribution	167,352.00 sf	11.059/sf	1,850,803
Lighting & Branch Wiring	167,352.00 sf	6.558/sf	1,097,540
D5031	167,352.00 sf	1.50 /sf	251,028
Fire Alarm Systems	167,352.00 sf	2.75 /sf	460,218
D5038	167,352.00 sf	2.873/sf	480,776
D5039	167,352.00 sf	6.92 /sf	1,158,000
Other Electrical System	167,352.00 sf	1.494/sf	250,000
D50 ELECTRICAL		33.154/sf	5,548,366
167,352.00 sf			
D SERVICES		90.496/sf	15,144,647
167,352.00 sf			
EQUIPMENT AND FURNISHINGS			
EQUIPMENT			
Commercial Equipment	167,352.00 sf	3.158/sf	528,510
Institutional Equipment	167,352.00 sf	1.276/sf	213,620
E10 EQUIPMENT		4.435/sf	742,130
167,352.00 sf			
FURNISHINGS			
Fixed Furnishings	167,352.00 sf	13.274/sf	2,221,405
E20 FURNISHINGS		13.274/sf	2,221,405
167,352.00 sf			
E EQUIPMENT AND FURNISHINGS		17.708/sf	2,963,535
167,352.00 sf			
SPECIAL CONSTRUCTION AND DEMOLITION			
SELECTIVE BUILDING DEMOLITION			
Building Elements Demolition	167,352.00 sf	3.328/sf	557,000

Design Development Budget Estimate Uniformat

2019_03_18 Reconciled

Description	Quantity	Unit Cost	Total	
			Unit Cost	Amount
Hazardous Components Abatement	167,352.00 sf	6.127/sf		1,025,442
F20 SELECTIVE BUILDING DEMOLITION		9.456/sf		1,582,442
167,352.00 sf				
F SPECIAL CONSTRUCTION AND DEMOLITION		9.456/sf		1,582,442
167,352.00 sf				
SITWORK				
SITE PREPARATION				
Site Clearing	167,352.00 sf	1.799/sf		301,000
Clearing And Grubbing	167,352.00 sf	0.877/sf		146,723
Tree Removal And Thinning	167,352.00 sf	0.03 /sf		5,100
Demolition of Site Components	167,352.00 sf	1.487/sf		248,821
Site Earthwork	167,352.00 sf	0.478/sf		80,000
Site Dewatering	167,352.00 sf	0.09 /sf		15,000
Site Shoring	167,352.00 sf	0.986/sf		165,000
Erosion Control	167,352.00 sf	1.078/sf		180,350
Site Earthwork	167,352.00 sf	3.413/sf		571,225
G10 SITE PREPARATION		10.237/sf		1,713,218
167,352.00 sf				
SITE IMPROVEMENTS				
Parking Lots	167,352.00 sf	7.038/sf		1,177,895
Pedestrian Paving	167,352.00 sf	3.978/sf		665,796
Site Development	167,352.00 sf	12.837/sf		2,148,334
Landscaping	167,352.00 sf	5.548/sf		928,508
Landscaping	141,600.00 sf	1.688/sf		239,015
G20 SITE IMPROVEMENTS		30.831/sf		5,159,548
167,352.00 sf				
SITE MECHANICAL UTILITIES				
Water Supply	167,352.00 sf	2.335/sf		390,750
Sanitary Sewer	167,352.00 sf	1.263/sf		211,305
Storm Sewer	167,352.00 sf	16.666/sf		2,789,096
G30 SITE MECHANICAL UTILITIES		20.264/sf		3,391,151
167,352.00 sf				
SITE ELECTRICAL UTILITIES				
Site Electrical Utilities	167,352.00 sf	3.377/sf		565,219
Site Lighting	167,352.00 sf	0.765/sf		128,092
Other Site Elctrical Utilities	167,352.00 sf	0.091/sf		15,300

Description	Quantity	Total	
		Unit Cost	Amount
G40 SITE ELECTRICAL UTILITIES		<u>4.234/sf</u>	<u>708,611</u>
167,352.00 sf			
 G SITEWORK		65.566/sf	10,972,528
167,352.00 sf			
 GENERAL			
GENERAL REQUIREMENTS			
Temporary Facilities and Controls	167,352.00 sf	<u>12.344/sf</u>	<u>2,065,736</u>
Z10 GENERAL REQUIREMENTS		12.344/sf	2,065,736
167,352.00 sf			
 Z GENERAL		12.344/sf	2,065,736
167,352.00 sf			

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
A	SUBSTRUCTURE				
A10	FOUNDATIONS				
A1010	Standard Foundations				
03-0000.000	CONCRETE				
03-1113.102	Forms, Place Footings				
10	Form And Place Strip Footings	3,335.00	sf	17.75 /sf	59,196
10	Form And Place Strip Footings At Loading Dock	60.00	sf	17.75 /sf	1,065
20	Form And Place BF Grade Beams	1,888.00	sf	17.75 /sf	33,512
22	Form And Place Interior Spread - F FTG'S	8,710.00	sf	17.75 /sf	154,603
	Forms, Place Footings			1.484/sf	248,376
	167,352.00 sf				
03-1113.110	Forms, Place Columns/Piers				
2	Form And Place Concrete Piers Square	278.00	sf	17.75 /sf	4,935
2	Form And Place Concrete Piers Round	428.00	sf	25.00 /sf	10,700
	Forms, Place Columns/Piers			0.093/sf	15,635
	167,352.00 sf				
03-1113.180	Forms, Place Walls				
a 4	Form And Place Foundation Frost Walls/Low Walls	16,178.00	sf	17.50 /sf	283,115
a 4	Form And Place Foundation At Loading Dock	370.00	sf	17.50 /sf	6,475
	Forms, Place Walls			1.73 /sf	289,590
	167,352.00 sf				
03-1113.635	Rigid Insulation				
20	Rigid Foundation Insulation 2.0" At Frost Wall	7,750.00	sf	3.20 /sf	24,800
	Rigid Insulation			0.148/sf	24,800
	167,352.00 sf				
03-2100.110	Rebar				
202	Rebar At Building Wall Footings	12.79	ton	2,200.00 /ton	28,138
202	Rebar At Building F Grade Beams	6.00	ton	2,200.00 /ton	13,200
202	Rebar At Interior Spread - F FTG'S	44.40	ton	2,200.00 /ton	97,680
202	Rebar At Concrete Piers Square	0.45	ton	2,200.00 /ton	990
210	Rebar At Concrete Piers Round	0.90	ton	2,200.00 /ton	1,980
210	Rebar At Foundation Frost Walls/Low Walls	34.10	ton	2,200.00 /ton	75,020
210	Rebar At Loading Dock Foundation	0.55	ton	2,200.00 /ton	1,210
	Rebar			1.304/sf	218,218
	167,352.00 sf				
03-3000.100	Concrete				
40	4000 PSI Concrete At Building Wall Footings	173.25	cy	115.00 /cy	19,924
40	4000 PSI Concrete At Building F Grade Beams	78.75	cy	115.00 /cy	9,056
40	4000 PSI Concrete At Interior Spread - F FTG'S	582.75	cy	115.00 /cy	67,016
40	4000 PSI Concrete At Concrete Piers Square	7.00	cy	115.00 /cy	805
40	4000 PSI Concrete At Concrete Piers Round	11.00	cy	115.00 /cy	1,265
40	4000 PSI Concrete At Foundation Frost Walls/Low Walls	470.00	cy	115.00 /cy	54,050

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
03-3000.100	Concrete				
40	4000 PSI Concrete At Loading Dock Foundation	12.00 cy	115.00 /cy		1,380
40	Miscellaneous Shelves And Box Outs	16,178.00 sf	0.70 /sf		11,325
40	Engineering and layout	10.00 cd	2,250.00 /cd		22,500
40	Logistics, safety, cleanup and protection	167,352.00 sf	0.75 /sf		125,514
40	Drain Line	1.00 sf	50,000.00 /sf		50,000
	Concrete		2.168/sf		362,835
	167,352.00 sf				
	CONCRETE		6.928/sf		1,159,453
	167,352.00 sf				
07-0000.000	THERMAL & MOIST PROTECT				
07-1100.100	Damproofing				
2	Damproofing At Frost Walls - Top of Walls Only	800.00 sf	3.00 /sf		2,400
	Damproofing		0.014/sf		2,400
	167,352.00 sf				
	THERMAL & MOIST PROTECT		0.014/sf		2,400
	167,352.00 sf				
31-0000.000	EARTHWORK				
31-2316.215	Footing Excavation				
105	Footing Excavation	2,450.00 cy	20.00 /cy		49,000
105	Haunch Excavation	4,200.00 lf	5.00 /lf		21,000
105	Excavation For Canopy Foundations	160.00 cy	20.00 /cy		3,200
	Footing Excavation		0.437/sf		73,200
	167,352.00 sf				
31-2319.120	Dewatering				
10	Dewatering At Building	1.00 Allow	10,000.00 /Allow		10,000
	Dewatering		0.06 /sf		10,000
	167,352.00 sf				
31-2323.215	Structure Backfill				
110	Footing Backfill w/Insitu Soil	3,000.00 cy	15.00 /cy		45,000
110	Backfill For Canopy Foundations	160.00 cy	30.00 /cy		4,800
	Structure Backfill		0.298/sf		49,800
	167,352.00 sf				
31-2323.255	Import Fill				
600	Stone 3/4" At Footings	400.00 cy	38.00 /cy		15,200

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Import Fill		0.091/sf	15,200
	167,352.00 sf			
	EARTHWORK		0.886/sf	148,200
	167,352.00 sf			
33-0000.000	UTILITIES			
33-0550.010	Pipe Trenching			
2	Exterior Footing Drain	2,000.00 lf	18.00 /lf	36,000
	Pipe Trenching		0.215/sf	36,000
	167,352.00 sf			
	UTILITIES		0.215/sf	36,000
	167,352.00 sf			
	A1010 Standard Foundations		8.043/sf	1,346,053
	167,352.00 sf			
A1030	Slab on Grade			
03-0000.000	CONCRETE			
03-0010.165	Concrete - Equipment Pads			
125	Interior Equipment Pads by Area SF - Allowance	400.00 sf	28.00 /sf	11,200
	Concrete - Equipment Pads		0.067/sf	11,200
	167,352.00 sf			
03-1113.102	Forms, Place Footings			
20	Form And Place Elevator Spread Footing/Slab	60.00 sf	22.00 /sf	1,320
	Forms, Place Footings		0.008/sf	1,320
	167,352.00 sf			
03-1113.180	Forms, Place Walls			
a 4	Form And Place Elevator Walls	280.00 sf	25.00 /sf	7,000
a 4	Form And Place Platform Stairs	50.00 lf	175.00 /lf	8,750
a 4	Form And Place Loading Dock Stairs	35.00 lf	175.00 /lf	6,125
	Forms, Place Walls		0.131/sf	21,875
	167,352.00 sf			
03-1113.630	Vapor Barrier			
12	Vapor Barrier With Lap (Not At Blind Side Waterproofing)	62,885.00 sf	0.90 /sf	56,597
12	Blind Side Waterproofing B Building	17,771.00 sf	7.50 /sf	133,283

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Vapor Barrier		1.135/sf	189,879
	167,352.00 sf			
03-1113.635	Rigid Insulation			
120	Rigid Insulation under Slab 2.0"	71,519.00 sf	2.50 /sf	178,798
	Rigid Insulation		1.068/sf	178,798
	167,352.00 sf			
03-1513.110	Waterstop			
6	Waterstop At Elevator	40.00 lf	12.00 /lf	480
	Waterstop		0.003/sf	480
	167,352.00 sf			
03-2100.110	Rebar			
208	SOG Rebar	71,519.00 sf	0.27 /sf	19,310
210	Rebar Elevator Spread Footing	0.64 ton	2,200.00 /ton	1,408
210	Rebar Elevator Walls	0.40 ton	2,200.00 /ton	880
210	Rebar Loading Dock	1.13 ton	2,200.00 /ton	2,486
	Rebar		0.144/sf	24,084
	167,352.00 sf			
03-2200.110	Wire Mesh			
110	WWF Reinforcement with Lap SOG	83,677.23 sf	0.90 /sf	75,310
110	WWF Reinforcement with Lap SOG Platform	982.00 sf	0.90 /sf	884
110	WWF Reinforcement with Lap SOG Loading Dock	182.00 sf	0.90 /sf	164
	Wire Mesh		0.456/sf	76,357
	167,352.00 sf			
03-3000.100	Concrete			
40	4000 PSI Concrete SOG And Haunch/Columns Infill	1,390.20 cy	115.00 /cy	159,873
40	4000 PSI Concrete Platform SOG And Stairs/Ramp	22.00 cy	115.00 /cy	2,530
40	4000 PSI Concrete Elevator	16.00 cy	115.00 /cy	1,840
40	Barrier One Moisture Additive SOG	1,670.55 cy	52.00 /cy	86,869
45	4500 PSI Concrete Loading Dock Foundation SOG And Stairs*****	15.00 cy	125.00 /cy	1,875
	Concrete		1.512/sf	252,987
	167,352.00 sf			
03-3500.110	Finish Flatwork			
10	Place And Finish SOG	71,519.00 sf	3.00 /sf	214,557
10	Place And Finish SOG At Platform	840.00 sf	9.00 /sf	7,560
10	Place And Finish SOG At Loading Dock	156.00 sf	9.00 /sf	1,404
	Finish Flatwork		1.336/sf	223,521
	167,352.00 sf			
	CONCRETE		5.859/sf	980,500
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	CONCRETE		5.859/sf	980,500
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-1200.100	Waterproofing			
2	Cementitious Waterproofing At Elevator Pit	1.00 ls	5,500.00 /ls	5,500
	Waterproofing		0.033/sf	5,500
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.033/sf	5,500
	167,352.00 sf			
31-0000.000	EARTHWORK			
31-2213.110	Site Grading			
120	Fine Grade Slab On Grade	71,519.00 sf	1.00 /sf	71,519
120	Fine Grade Loading Dock SOG	840.00 sf	1.00 /sf	840
	Site Grading		0.432/sf	72,359
	167,352.00 sf			
31-2316.210	Structure Excavation			
105	Excavate for Elevator Pit	63.06 cy	16.00 /cy	1,009
	Structure Excavation		0.006/sf	1,009
	167,352.00 sf			
31-2316.220	Mass Excavation			
105	Over-Excavate Fill in Building	5,500.00 cy	12.00 /cy	66,000
	Mass Excavation		0.394/sf	66,000
	167,352.00 sf			
31-2323.215	Structure Backfill			
110	Backfil Elevator Pit	47.00 cy	30.00 /cy	1,410
	Structure Backfill		0.008/sf	1,410
	167,352.00 sf			
31-2323.220	Backfill Slabs			
10	12" Course Gravel Slab on Grade Base	3,505.00 cy	35.00 /cy	122,675
	Material/Bedding			
10	9" Gravel Slab on Grade Base Loading Dock	4.33 cy	35.00 /cy	152
	Backfill Slabs		0.734/sf	122,827
	167,352.00 sf			
31-2323.255	Import Fill			
100	Structural Fill to Subgrade	12,000.00 cy	30.00 /cy	360,000
100	Structural Fill At 3' DIP Through Building	2,250.00 cy	30.00 /cy	67,500

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Import Fill</i>		<u>2.554/sf</u>	<u>427,500</u>
	167,352.00 sf			
31-2323.260	<i>Haul Material</i>			
10	Export Displaced Material From 3' Trench For DIP Through Building	2,300.00 cy	8.00 /cy	18,400
	<i>Haul Material</i>		<u>0.11 /sf</u>	<u>18,400</u>
	167,352.00 sf			
	EARTHWORK		4.24 /sf	709,505
	167,352.00 sf			
33-0000.000	UTILITIES			
33-0550.010	<i>Pipe Trenching</i>			
2	Underslab Plumbing Excavation And Backfill	4,500.00 lf	15.00 /lf	67,500
2	Underslab Drainage	5,500.00 lf	28.00 /lf	154,000
	<i>Pipe Trenching</i>		<u>1.324/sf</u>	<u>221,500</u>
	167,352.00 sf			
	UTILITIES		1.324/sf	221,500
	167,352.00 sf			
	A1030 Slab on Grade		11.455/sf	1,917,005
	167,352.00 sf			
	A10 FOUNDATIONS		19.498/sf	3,263,058
	167,352.00 sf			
	A SUBSTRUCTURE		19.498/sf	3,263,058
	167,352.00 sf			
B	SHELL			
B10	SUPERSTRUCTURE			
B1010	<i>Floor Construction</i>			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
03-0000.000	CONCRETE			
03-0010.165	Concrete - Equipment Pads			
125	Concrete - Equipment Pads	400.00 sf	28.00 /sf	11,200
	Concrete - Equipment Pads		0.067/sf	11,200
	167,352.00 sf			
03-0022.140	Concrete - Place & Finish SOD			
100	Place & Finish - SOMD 4.5" NW 2" 20 Ga W/6X6 - W2.1 W 2.1 WWF	90,671.00 sf	2.50 /sf	226,678
	Concrete - Place & Finish SOD		1.354/sf	226,678
	167,352.00 sf			
03-2100.110	Rebar			
210	Rebar At SOD	90,671.00 sf	0.60 /sf	54,403
	Rebar		0.325/sf	54,403
	167,352.00 sf			
03-2200.110	Wire Mesh			
110	WWF Reinforcement with Lap W/6X6 - W2.1 W 2.1	106,085.07 sf	1.00 /sf	106,085
	Wire Mesh		0.634/sf	106,085
	167,352.00 sf			
03-3000.100	Concrete			
40	4000 PSI Concrete SOMD NW	1,399.00 cy	115.00 /cy	160,885
40	Barrier 1	1,399.00 cy	45.00 /cy	62,955
	Concrete		1.338/sf	223,840
	167,352.00 sf			
	CONCRETE		3.718/sf	622,205
	167,352.00 sf			
05-0000.000	METALS			
05-1200.110	Structural Steel			
a 01	Structural Steel, Bracing, Angles, Studs, Connections And Joist	644.00 ton	3,800.00 /ton	2,447,200
	Structural Steel		14.623/sf	2,447,200
	167,352.00 sf			
05-3100.114	Steel Floor Decking			
618	Metal Floor Deck - 2" 20 Ga	90,671.00 sf	3.00 /sf	272,013
	Steel Floor Decking		1.625/sf	272,013
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	METALS		16.248/sf	2,719,213
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-8100.100	Fireproofing			
2	Fireproofing	30,223.67 sf	2.85 /sf	86,137
	Fireproofing		0.515/sf	86,137
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.515/sf	86,137
	167,352.00 sf			
	B1010 Floor Construction		20.481/sf	3,427,556
	167,352.00 sf			
B1020	Roof Construction			
03-0000.000	CONCRETE			
03-0022.140	Concrete - Place & Finish SOD			
100	Place & Finish - SOMD 7" LW W/6X6 - W2.1 W 2.1 WWF	4,841.00 sf	4.50 /sf	21,785
	Concrete - Place & Finish SOD		0.13 /sf	21,785
	167,352.00 sf			
03-2100.110	Rebar			
212	Rebar At SOMD - Roof	4,841.00 sf	0.70 /sf	3,389
	Rebar		0.02 /sf	3,389
	167,352.00 sf			
03-2200.110	Wire Mesh			
110	WWF Reinforcement with Lap Roof W/6X6 - W2.1 W 2.1	5,663.97 sf	1.00 /sf	5,664
	Wire Mesh		0.034/sf	5,664
	167,352.00 sf			
03-3000.100	Concrete			
I 40	4000 PSI LW Concrete SOMD Sound Atten	126.00 cy	145.00 /cy	18,270
	Concrete		0.109/sf	18,270
	167,352.00 sf			
	CONCRETE		0.293/sf	49,107
	167,352.00 sf			
05-0000.000	METALS			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
05-1200.110	<i>Structural Steel</i>			
a 01	Structural Steel, Bracing, Angles, Studs, Connections And Joist	625.38 ton	3,800.00 /ton	2,376,444
a 01	Structural Steel Canopy/Screen/MEP Framing - Support	71.40 ton	4,800.00 /ton	342,720
a 01	ADD Structural Steel Canopy/Screen/MEP Framing - Support RTU9 /HV1/MAU1/	20.50 ton	4,800.00 /ton	98,400
	<i>Structural Steel</i>		<u>16.836/sf</u>	<u>2,817,564</u>
	167,352.00 sf			
05-3100.110	<i>Steel Roof Decking</i>			
120	Metal Roof Deck 3" 20 ga.	71,573.00 sf	3.25 /sf	232,612
320	Metal Deck 3" 20 ga. - Cellular Acoustical	6,600.00 sf	11.00 /sf	72,600
	<i>Steel Roof Decking</i>		<u>1.824/sf</u>	<u>305,212</u>
	167,352.00 sf			
	METALS		18.66 /sf	3,122,776
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-8100.100	<i>Fireproofing</i>			
2	Fireproofing - Cementitious	26,057.67 sf	2.85 /sf	74,264
	<i>Fireproofing</i>		<u>0.444/sf</u>	<u>74,264</u>
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.444/sf	74,264
	167,352.00 sf			
	B1020 Roof Construction		19.397/sf	3,246,148
	167,352.00 sf			
	B10 SUPERSTRUCTURE		39.878/sf	6,673,703
	167,352.00 sf			
B20	EXTERIOR VERTICAL ENCLOSURES			
B2010	<i>Exterior Walls</i>			
04-0000.000	MASONRY			
04-0000.110	<i>Block 12" CMU Back - Up</i>			
212	Backup Wall 12" At 26' Type X4 / 9 And L.4 Lines	3,711.00 sf	34.00 /sf	126,174
212	Backup Wall 12" At 12' Type X4 Roof Level / 12, J.5 And L.4 Lines	1,579.00 sf	34.00 /sf	53,686
212	Backup Wall 12" At 6' Type X4 Roof Level / J.5 Between 9.6 And 11.2 Lines	312.00 sf	34.00 /sf	10,608

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Block 12" CMU Back - Up</i>		<u>1.138/sf</u>	<u>190,468</u>
	167,352.00 sf			
04-2113.140	<i>Brick</i>			
10	Brick Veneer - Wall Type X1.11,1.11a And X4.11	36,234.00 ea	36.00 /ea	1,304,424
	<i>Brick</i>		<u>7.794/sf</u>	<u>1,304,424</u>
	167,352.00 sf			
04-7200.120	<i>Architectural Cast Stone</i>			
020	Cast Unit Veneer Masonry	4,250.00 sf	60.00 /sf	255,000
020	Ground Face Veneer Masonry AT East Wall Gymnasium	420.00 sf	42.00 /sf	17,640
050	Stone Cap 6" w +- x 4" h +- At Cast Unit Veneer Masonry	1,075.00 lf	70.00 /lf	75,250
050	Stone Cap 9" w +- x 4" h +- At BrickVeneer Architectural Cast Stone	1,900.00 lf	<u>74.00 /lf</u>	<u>140,600</u>
			<u>2.919/sf</u>	<u>488,490</u>
	167,352.00 sf			
04-9590.110	<i>Staging</i>			
5	Masonry Staging	41,886.00 sf	<u>3.462 /sf</u>	<u>145,025</u>
	<i>Staging</i>		<u>0.867/sf</u>	<u>145,025</u>
	167,352.00 sf			
	MASONRY		<u>12.718/sf</u>	<u>2,128,407</u>
	167,352.00 sf			
05-0000.000	METALS			
05-4100.010	<i>LGMF Framing</i>			
080	LGMF At Masonry And Precast (41,886 - 5,602 Minus CMU Back - Up)	36,284.00 sf	10.00 /sf	362,840
080	LGMF At Metal Wall Panel	12,200.00 sf	10.00 /sf	122,000
080	LGMF At Prefinished Phenolic Panels	11,300.00 sf	10.00 /sf	113,000
080	LGMF At A6.70 Roof Edge Metal Soffit 1'-11-5/8"	3,870.00 sf	12.00 /sf	46,440
080	LGMF At A6.70 Prefinished Fascia At Overhang 3'-5" +-	6,490.00 sf	12.00 /sf	77,880
080	LGMF At Exterior Linear Metal Ceiling Vestibule 1205	2,014.00 sf	12.00 /sf	24,168
080	LGMF At Exterior Linear Metal Ceilings Corridor 1153/Gym Entry	326.00 sf	12.00 /sf	3,912
080	LGMF At Exterior Linear Metal Ceiling Lobby 1101 / Cafe Entry	981.00 sf	12.00 /sf	11,772
080	LGMF At Exterior Linear Metal Ceiling Southwest Canopy	2,732.00 sf	12.00 /sf	32,784
	<i>LGMF Framing</i>		<u>4.749/sf</u>	<u>794,796</u>
	167,352.00 sf			
05-5820.120	<i>Misc Steel</i>			
40	Column Covers At 10' +-	2.00 ea	5,800.00 /ea	11,600
140	Seismic Clips L5x5x5/16 x 1'6" Long At 4" OC Staggered / Expan Bolts	162.00 Ea	225.00 /Ea	36,450
140	Exterior Lintels	1,270.00 lf	28.00 /lf	35,560

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Misc Steel</i>		0.50 /sf	83,610
	167,352.00 sf			
	METALS		5.249/sf	878,406
	167,352.00 sf			
06-0000.000	ROUGH CARPENTRY			
06-1610.110	<i>Sheathing At Walls</i>			
62	Sheathing At Masonry And Precast 41,886 - 5,602 Minus CMU Back - Up)	36,284.00 sf	3.00 /sf	108,852
62	Sheathing At Metal Wall Panel	12,200.00 sf	2.995 /sf	36,539
62	Sheathing At Prefinished Phenolic Panels	11,300.00 sf	2.995 /sf	33,844
62	Sheathing At At A6.70 Roof Edge Metal Soffit 1'-11-5/8"	3,870.00 sf	2.995 /sf	11,591
62	Sheathing At A6.70 Prefinished Fascia At Overhang 3'-5" +-	6,490.00 sf	2.995 /sf	19,438
62	Sheathing At Exterior Linear Metal Ceiling Vestibule 1205	2,014.00 sf	2.995 /sf	6,032
62	Sheathing At Exterior Metal Panel Ceilings Corridor 1153/Gym Entry	326.00 sf	2.995 /sf	976
62	Sheathing At Exterior Linear Metal Ceiling Lobby 1101 / Cafe Entry	981.00 sf	2.995 /sf	2,938
62	Sheathing At Exterior Metal Panel Ceiling Southwest Canopy	2,732.00 sf	2.995 /sf	8,182
	<i>Sheathing At Walls</i>		1.365/sf	228,391
	167,352.00 sf			
	ROUGH CARPENTRY		1.365/sf	228,391
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-2113.230	<i>Insulation Board</i>			
2	3" Rigid Insulation At Masonry And Precast	41,886.00 sf	3.00 /sf	125,658
2	4" Mineral Wool Insulation At Metal Wall Panel	12,200.00 sf	4.00 /sf	48,800
2	4" Mineral Wool Insulation At Prefinished Phenolic Panels	11,300.00 sf	4.00 /sf	45,200
2	4" Mineral Wool Insulation At A6.70 Roof Edge Metal Soffit 1'-11-5/8"	3,870.00 sf	4.00 /sf	15,480
2	4" Mineral Wool Insulation At A6.70 Prefinished Fascia At Overhang 3'-5" +-	6,490.00 sf	4.00 /sf	25,960
2	4" Mineral Wool Insulation At Exterior Linear Metal Ceiling Vestibule 1205	2,014.00 sf	4.00 /sf	8,056
2	4" Mineral Wool Insulation At Exterior Metal Panel Ceiling Corridor 1153/Gym Entry	326.00 sf	4.00 /sf	1,304
2	4" Mineral Wool Insulation At Exterior Linear Metal Ceiling Lobby 1101 / Cafe Entry	981.00 sf	4.00 /sf	3,924
	<i>Insulation Board</i>		1.64 /sf	274,382
	167,352.00 sf			
07-2700.100	<i>Air Barriers</i>			
10	Air Vapor Barrier At Masonry And Precast	41,886.00 sf	6.75 /sf	282,731
10	Air Vapor Barrier At Metal Wall Panel Basis - Basis ATAS International, Inc; Design Wall DWF	12,200.00 sf	6.75 /sf	82,350

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
07-2700.100	<i>Air Barriers</i>				
10	Air Vapor Barrier At Prefinished Phenolic Panels	11,300.00 sf	6.75 /sf		76,275
10	Air Vapor Barrier At A6.70 Roof Edge Metal Soffit 1'-11-5/8" - Basis ATAS International, Inc; Design Wall DW	3,870.00 sf	6.75 /sf		26,123
10	Air Vapor Barrier At A6.70 Prefinished Fascia At Overhang 3'-5" +- Basis ATAS International, Inc; Design Wall DW	6,490.00 sf	6.75 /sf		43,808
10	Air Vapor Barrier At Exterior Linear Metal Ceiling Vestibule 1205	2,014.00 sf	6.75 /sf		13,595
10	Air Vapor Barrier At Exterior Metal Panel Ceilings Corridor 1153/Gym Entry - Basis ATAS International, Inc; Design Wall DW	326.00 sf	6.75 /sf		2,201
10	Air Vapor Barrier At Exterior Linear Metal Ceiling Lobby 1101 / Cafe Entry	981.00 sf	6.75 /sf		6,622
10	Air Vapor Barrier At Exterior Metal Panel Southwest Canopy - ATAS International, Inc; Design Wall DWF	2,732.00 sf	6.75 /sf		18,441
10	Strip in AVB At Windows	5,988.00 sf	6.75 /sf		40,419
10	Strip in AVB At Doors	110.00 sf	6.75 /sf		743
	<i>Air Barriers</i>			<u>3.545/sf</u>	<u>593,305</u>
	167,352.00 sf				
07-4616.100	<i>Composite Wall Panel</i>				
2	Metal Wall Panel Basis	12,200.00 sf	67.00 /sf		817,400
2	Metal Panel A6.70 Roof Edge Metal Soffit 1'-11-5/8"	3,870.00 sf	67.00 /sf		259,290
2	Metal Panel A6.70 Prefinished Fascia At Overhang 3'-5"	6,490.00 sf	70.00 /sf		454,300
2	Linear Metal Ceiling Vestibule 1205	2,014.00 sf	70.00 /sf		140,980
2	Metal Panel Ceilings Corridor 1153/Gym Entry	326.00 sf	67.00 /sf		21,842
2	Linear Metal Ceiling Lobby 1101 / Cafe Entry	981.00 sf	70.00 /sf		68,670
2	Metal Panel Southwest Canopy	2,732.00 sf	67.00 /sf		183,044
2	Prefinished Phenolic Panels	11,300.00 sf	68.00 /sf		768,400
	<i>Composite Wall Panel</i>			<u>16.217/sf</u>	<u>2,713,926</u>
	167,352.00 sf				
07-9200.200	<i>Exterior Caulking</i>				
2	Exterior Joint/Control Joint sealants	68,000.00 Allo	1.00 /Allo		68,000
	<i>Exterior Caulking</i>			<u>0.406/sf</u>	<u>68,000</u>
	167,352.00 sf				
07-9513.100	<i>Expansion Covers</i>				
12	Exterior Expansion Joint Cover Assemblies	104.00 lf	225.00 /lf		23,400
	<i>Expansion Covers</i>			<u>0.14 /sf</u>	<u>23,400</u>
	167,352.00 sf				
	<i>THERMAL & MOIST PROTECT</i>			<u>21.948/sf</u>	<u>3,673,013</u>
	167,352.00 sf				
08-0000.000	<i>OPENINGS</i>				
08-9100.100	<i>Louvers Metal Operable</i>				
2	Louvers	100.00 Allow	80.00 /Allow		8,000

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Louvers Metal Operable</i>		<i>0.048/sf</i>	<i>8,000</i>
	<i>167,352.00 sf</i>			
08-9200.100	<i>Louvered Equipment Enclosures</i>			
100	Roof Top Equipment Screen - Verta-A-Cade 301 (Basis of Design)	7,880.00 sf	55.00 /sf	433,400
100	RTU9/HV1/MAU1 Roof Top Equipment Screen - Verta-A-Cade 301 (Basis of Design)	1,640.00 sf	55.00 /sf	90,200
	<i>Louvered Equipment Enclosures</i>		<i>3.129/sf</i>	<i>523,600</i>
	<i>167,352.00 sf</i>			
	<i>OPENINGS</i>		<i>3.177/sf</i>	<i>531,600</i>
	<i>167,352.00 sf</i>			
09-0000.000	<i>FINISHES</i>			
09-2000.010	<i>Drywall Partitions</i>			
100	Drywall At Interior LGMF	48,997.00 sf	3.50 /sf	171,490
	<i>Drywall Partitions</i>		<i>1.025/sf</i>	<i>171,490</i>
	<i>167,352.00 sf</i>			
	<i>FINISHES</i>		<i>1.025/sf</i>	<i>171,490</i>
	<i>167,352.00 sf</i>			
10-0000.000	<i>SPECIALTIES</i>			
10-1400.110	<i>Signs - Exterior</i>			
100	Signs - Building ID Allowance	1.00 ALLO W	12,500.00 /ALLO W	12,500
	<i>Signs - Exterior</i>		<i>0.075/sf</i>	<i>12,500</i>
	<i>167,352.00 sf</i>			
	<i>SPECIALTIES</i>		<i>0.075/sf</i>	<i>12,500</i>
	<i>167,352.00 sf</i>			
	<i>B2010 Exterior Walls</i>		<i>45.556/sf</i>	<i>7,623,807</i>
	<i>167,352.00 sf</i>			
B2020	<i>Exterior Windows</i>			
06-0000.000	<i>ROUGH CARPENTRY</i>			
06-0000.010	<i>Carpentry</i>			
2	Exterior Blocking At Storefront, Curtainwall and Windows	9,212.00 lf	15.00 /lf	138,180
2	Exterior Blocking At Prefinished Aluminum Sun Shades	130.00 loc	125.00 /loc	16,250

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Carpentry</i>		0.923/sf	154,430
	167,352.00 sf			
	<i>ROUGH CARPENTRY</i>		0.923/sf	154,430
	167,352.00 sf			
07-0000.000	<i>THERMAL & MOIST PROTECT</i>			
07-9200.200	<i>Exterior Caulking</i>			
20	Exterior Caulking At Storefront, Curtainwall and Windows	9,212.00 lf	6.00 /lf	55,272
	<i>Exterior Caulking</i>		0.33 /sf	55,272
	167,352.00 sf			
	<i>THERMAL & MOIST PROTECT</i>		0.33 /sf	55,272
	167,352.00 sf			
08-0000.000	<i>OPENINGS</i>			
08-4100.100	<i>Storefronts - Aluminum</i>			
10	SF-1 Alum. Storefront 5-4w x 9-4h	3,435.00 sf	90.00 /sf	309,150
10	SF-2 Alum. Storefront 5-4w x 6-8h	2,276.00 sf	90.00 /sf	204,840
10	SF-3 Alum. Storefront 5-4w x 6-8h	2,170.00 sf	90.00 /sf	195,300
10	SF-4 Alum. Storefront 5-4w x 6-8h	2,100.00 sf	90.00 /sf	189,000
10	SF-5 Alum. Storefront 8-4w x 6-8h	222.00 sf	90.00 /sf	19,980
10	SF-7 (2)Pr. Drs. Alum Storefront 20 w x 10h	200.00 sf	90.00 /sf	18,000
10	SF-8 (1)Pr. Drs. Alum Storefront 12-2 w x 10h	122.00 sf	90.00 /sf	10,980
10	SF-10 Alum Storefront 21-8 w x 6-4h	137.00 sf	90.00 /sf	12,330
10	SF-11 Alum Storefront 17-4 w x 6-4h	110.00 sf	90.00 /sf	9,900
10	SF-12 Alum Storefront 23-4 w x 6-4h	148.00 sf	90.00 /sf	13,320
10	SF-13 Alum Storefront 23-4 w x 6-4h	148.00 sf	90.00 /sf	13,320
10	SF-14 Alum Storefront 23-4 w x 6-4h	148.00 sf	90.00 /sf	13,320
10	SF-15 Alum Storefront 23-4 w x 6-4h	148.00 sf	90.00 /sf	13,320
10	SF-16 Alum Storefront 36-6 w x 6-8h	243.00 sf	90.00 /sf	21,870
10	SF-17* Radius Alum Storefront 39-6 w x 7-4h	290.00 sf	90.00 /sf	26,100
10	SF-18* (1)Pr Drs Radius Alum Storefront 19-6 w x 7-2h	140.00 sf	90.00 /sf	12,600
10	SF-27 Alum Storefront 12-0 w x 7-4h	88.00 sf	90.00 /sf	7,920
10	SF-28 Alum Storefront 14-10 w x 4 h	59.00 sf	90.00 /sf	5,310
10	SF-29 Alum Storefront 27 w x 4 h	648.00 sf	90.00 /sf	58,320
10	SF-30 Alum Storefront 27 w x 4 h	324.00 sf	90.00 /sf	29,160
10	SF-32 (2) Pr Drs Alum Storefront 14-6 w x 9-4 h	135.00 sf	90.00 /sf	12,150
10	SF-33 (1)/(1)Sgl Pr Drs Alum Storefront 41-6 w x 9-6 h	394.00 sf	90.00 /sf	35,460
10	SF-34 (1)Sgl Dr Alum Storefront 10-11 w x 7-2 h	78.00 sf	90.00 /sf	7,020
10	SF-35 (1)Sgl Dr Alum Storefront 10-11 w x 7-2 h	78.00 sf	90.00 /sf	7,020
10	SF-36 Alum Storefront 10-11w x 8 h	175.00 sf	90.00 /sf	15,750
10	SF-37 Alum Storefront 10-11w x 8 h	175.00 sf	90.00 /sf	15,750
10	SF-38 (1)Pr Drs Alum Storefront 6-5 w x 9-4 h	299.00 sf	90.00 /sf	26,910
	<i>Storefronts - Aluminum</i>		7.793/sf	1,304,100
	167,352.00 sf			
08-4400.110	<i>Curtain Wall</i>			

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
08-4400.110	<i>Curtain Wall</i>				
1000	CW 1 10w x 42-8h [1ea]	427.00 sf	125.00 /sf		53,375
1000	CW 2 (1) Pr Drs 12hw x 42-8h [1ea]	512.00 sf	125.00 /sf		64,000
1000	CW 3 5w x 39-8h [2ea]	397.00 sf	125.00 /sf		49,625
1000	CW 4 27-2w x 20-08h [1ea]	561.00 sf	125.00 /sf		70,125
	<i>Curtain Wall</i>		<u>1.417/sf</u>		<u>237,125</u>
	167,352.00 sf				
08-5113.100	<i>Windows - Aluminum</i>				
10	BL5 3 w x 5-2	31.00 sf	88.00 /sf		2,728
10	W1 2-0 x 2-0	40.00 sf	88.00 /sf		3,520
10	W2 2-8 x 2-8	100.00 sf	88.00 /sf		8,800
10	W3 4 x 4	256.00 sf	88.00 /sf		22,528
10	W4 6 x 6	432.00 sf	88.00 /sf		38,016
10	W5 8 x 8	64.00 sf	88.00 /sf		5,632
10	W6 3-4 x 6-0	93.00 sf	88.00 /sf		8,184
10	W8 5w x 6-4	190.00 sf	88.00 /sf		16,720
	<i>Windows - Aluminum</i>		<u>0.634/sf</u>		<u>106,128</u>
	167,352.00 sf				
	OPENINGS		9.844/sf		1,647,353
	167,352.00 sf				
10-7000.000	EXTERIOR SPECIALITIES				
10-7113.000	<i>Sun Control Devices</i>				
10	Prefinished Aluminum Sun Shades	726.00 lf	275.00 /lf		199,650
	<i>Sun Control Devices</i>		<u>1.193/sf</u>		<u>199,650</u>
	167,352.00 sf				
	EXTERIOR SPECIALITIES		1.193/sf		199,650
	167,352.00 sf				
	B2020 Exterior Windows		12.29 /sf		2,056,705
	167,352.00 sf				
B2030	<i>Exterior Doors</i>				
05-0000.000	METALS				
05-5820.120	<i>Misc Steel</i>				
80	Channel Door Frame(s) - Ext. OH Door (8' W x 7' H+-)	1.00 ea	2,500.00 /ea		2,500
80	Overhead Support(s) - Ext. OH Door (8' W x 7' H+-)	1.00 ea	2,500.00 /ea		2,500
	<i>Misc Steel</i>		<u>0.03 /sf</u>		<u>5,000</u>
	167,352.00 sf				
	METALS		0.03 /sf		5,000
	167,352.00 sf				

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	METALS		0.03 /sf	5,000
	167,352.00 sf			
06-0000.000	ROUGH CARPENTRY			
06-0000.010	Carpentry			
2	Exterior HM Door Blocking	98.00 lf	15.00 /lf	1,470
2	Exterior Door Blocking At Ext. at OH Door(s) (8' W x 7'H+-)	22.00 lf	15.00 /lf	330
	Carpentry		0.011/sf	1,800
	167,352.00 sf			
	ROUGH CARPENTRY		0.011/sf	1,800
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-9200.200	Exterior Caulking			
10	Caulking Exterior Doors	186.00 lf	6.00 /lf	1,116
10	Caulking Exterior Overhead Coiling Doors	44.00 lf	6.00 /lf	264
	Exterior Caulking		0.008/sf	1,380
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.008/sf	1,380
	167,352.00 sf			
08-0000.000	OPENINGS			
08-1100.300	Doors - Hollow Metal Doors And Frames			
10	1205A Single HM Door(s), Frame & Hardware - Installed	1.00 ea	2,450.00 /ea	2,450
10	1131B Pair HM Door(s), Frame & Hardware - Installed	1.00 pr	3,400.00 /pr	3,400
10	1140D Single HM Door(s), Frame & Hardware - Installed	1.00 ea	2,450.00 /ea	2,450
10	1153A Pair HM Door(s), Frame & Hardware - Installed	1.00 pr	3,400.00 /pr	3,400
10	1153B Pair HM Door(s), Frame & Hardware - Installed	1.00 pr	3,400.00 /pr	3,400
	Doors - Hollow Metal Doors And Frames		0.09 /sf	15,100
	167,352.00 sf			
08-3300.100	Doors- Overhead			
110	1155A Exterior Overhead Door (8' W x 7' H +-) - Overhead Door Corporation; Series 596	1.00 ea	9,800.00 /ea	9,800
	Doors- Overhead		0.059/sf	9,800
	167,352.00 sf			
08-4200.100	Storefront Entrances			

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Amount	
08-4200.100	<i>Storefront Entrances</i>				
150	1101A Lobby 1101 Ext. Double Doors, Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
150	1101B Lobby 1101 Ext. Double Doors, Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
150	1101D Lobby 1101 Ext. Double Doors, Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
150	1129 Corr. 1129 Ext. Double Doors, Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
150	1134B Vest. 1134A Ext. Double Doors, Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
150	1134C Vest. 1134A Ext. Double Doors, Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
150	1136B Gym. 1136 Ext. Double Doors, Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
150	1202J Reading C. Ext. Pair Door(s), Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
150	1203B Corr. Ext. Single Door(s), Hardware 3w x 7h +-	1.00 ea	4,800.00 /ea	4,800	
150	1205B Vest 1205 Ext. Single Door(s), Hardware 3w x 7h +-	1.00 ea	4,800.00 /ea	4,800	
150	1203B Corr. Ext. Single Door(s), Hardware 3w x 7h +-	1.00 ea	4,800.00 /ea	4,800	
150	1215B Maker S. Ext. Pair Door(s), Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
150	1223B Reading Ext. Single Door(s), Hardware 3w x 7h +-	1.00 ea	4,800.00 /ea	4,800	
150	1238 Corr. 1238 Ext. Pair Door(s), Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
150	S2-1B STR2 Ext. Double Doors, Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
150	S3-1B STR3 Ext. Double Doors, Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
150	S4-1B STR4 Ext. Double Doors, Hardware 6w x 7h +-	1.00 pr	9,600.00 /pr	9,600	
	<i>Storefront Entrances</i>		<u>0.86 /sf</u>	<u>144,000</u>	
	167,352.00 sf				
	<i>OPENINGS</i>		<u>1.009/sf</u>	<u>168,900</u>	
	167,352.00 sf				
09-0000.000	<i>FINISHES</i>				
09-9113.100	<i>Painting- Exterior</i>				
30	Paint Exterior Door and Frame	2.00 ea	175.00 /ea	350	
30	Paint Exterior Pair of Doors and Frame	3.00 ea	275.00 /ea	825	
30	Paint Exterior OH Door Frame(s)	1.00 ea	175.00 /ea	175	
	<i>Painting- Exterior</i>		<u>0.008/sf</u>	<u>1,350</u>	
	167,352.00 sf				
	<i>FINISHES</i>		<u>0.008/sf</u>	<u>1,350</u>	
	167,352.00 sf				
	<i>B2030 Exterior Doors</i>		<u>1.066/sf</u>	<u>178,430</u>	
	167,352.00 sf				

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	B2030 Exterior Doors		1.066/sf	178,430
	167,352.00 sf			
	B20 EXTERIOR VERTICAL ENCLOSURES		58.911/sf	9,858,942
	167,352.00 sf			
B30	EXTERIOR HORIZONTAL ENCLOSURES			
B3010	Roof Coverings			
06-0000.000	ROUGH CARPENTRY			
06-0000.010	Carpentry			
2	Vertical Roof Sheathing	400.00 sf	4.00 /sf	1,600
2	Roof Blocking	13,789.00 lf	15.00 /lf	206,835
	Carpentry		1.245/sf	208,435
	167,352.00 sf			
	ROUGH CARPENTRY		1.245/sf	208,435
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-5300.100	Roofing - Membrane			
2	Roof R-1 And Flashing	80,905.00 sf	18.00 /sf	1,456,290
2	Roof Vertical	400.00 sf	18.00 /sf	7,200
2	Roof R-1B And Flashing	9,785.00 sf	24.00 /sf	234,840
2	Roof Expansion Joint	78.00 lf	225.00 /lf	17,550
2	Walkway Pads	2,000.00 sf	15.00 /sf	30,000
2	Protection of completed roofing.	90,690.00 sf	0.20 /sf	18,138
	Roofing - Membrane		10.541/sf	1,764,018
	167,352.00 sf			
07-6200.100	Flashing- Aluminum			
2	Roof Edge Metal	1,926.00 lf	22.00 /lf	42,372
2	1'-2" Fascia W/1'-6" Coping Flashing	1,926.00 lf	74.00 /lf	142,524
	Flashing- Aluminum		1.105/sf	184,896
	167,352.00 sf			
	THERMAL & MOIST PROTECT		11.646/sf	1,948,914
	167,352.00 sf			
	B3010 Roof Coverings		12.891/sf	2,157,349
	167,352.00 sf			
B3020	Roof Openings			
07-0000.000	THERMAL & MOIST PROTECT			

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
07-7200.100	<i>Roof Accessories</i>				
12	Manufactured Curbs, Equipment Rails, and Pedestals.	1.00 ea	12,000.00 /ea		12,000
12	Roof Access Hatches.	1.00 ea	540.00 /ea		540
12	Roof Access Ladders	4.00 ea	12,200.00 /ea		48,800
12	Elevator Hoistway Vent. [Basis-of-Design Manufacturer / Product: Greenheck, Model ESJ-401P Stationary Blade Louver Penthouse]	1.00 ea	4,200.00 /ea		4,200
	<i>Roof Accessories</i>			<u>0.392/sf</u>	<u>65,540</u>
	167,352.00 sf				
	THERMAL & MOIST PROTECT			0.392/sf	65,540
	167,352.00 sf				
08-0000.000	OPENINGS				
08-6200.100	<i>Skylights</i>				
20	Skylight - Metal Framed	234.00 sf	175.00 /sf		40,950
20	Skylight - Metal Framed	133.00 sf	175.00 /sf		23,275
	<i>Skylights</i>			<u>0.384/sf</u>	<u>64,225</u>
	167,352.00 sf				
	OPENINGS			0.384/sf	64,225
	167,352.00 sf				
	<i>B3020 Roof Openings</i>			0.775/sf	129,765
	167,352.00 sf				
	B30 EXTERIOR HORIZONTAL ENCLOSURES			13.666/sf	2,287,114
	167,352.00 sf				
	B SHELL			112.456/sf	18,819,759
	167,352.00 sf				
C	INTERIORS				
C10	INTERIOR CONSTRUCTION				
C1010	<i>Interior Partitions</i>				
04-0000.000	MASONRY				
04-2200.080	<i>Block- 8" CMU</i>				
102	E1 8" CMU 1 HR. Grouted Solid S0.02 [Includes Staging/Access]	1,450.00 sf	32.00 /sf		46,400
102	E1 8" CMU 1 HR. Elevator Machine Room	364.00 sf	28.00 /sf		10,192
102	G1 12" CMU 26' HT. - 1 HR Gym	2,320.00 sf	36.00 /sf		83,520

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
04-2200.080	Block- 8" CMU			
102	G1 6" CMU 25' HT.	430.00 sf	26.00 /sf	11,180
102	G1 4" CMU 25' HT.	145.00 sf	24.00 /sf	3,480
102	G2 12" CMU 43' HT. - 2 HR Sep Wall	2,397.00 sf	36.00 /sf	86,292
	Block- 8" CMU		1.44 /sf	241,064
	167,352.00 sf			
	MASONRY		1.44 /sf	241,064
	167,352.00 sf			
05-0000.000	METALS			
05-5820.120	Misc Steel			
10	Seismic Clips	54.00 ea	250.00 /ea	13,500
140	Support for Operable Partition	55.00 lf	200.00 /lf	11,000
140	Interior Lintels	1.00 ls	5,500.00 /ls	5,500
	Misc Steel		0.179/sf	30,000
	167,352.00 sf			
	METALS		0.179/sf	30,000
	167,352.00 sf			
06-0000.000	ROUGH CARPENTRY			
06-0000.010	Carpentry			
2	In Wall And Misc. Blocking	167,352.00 sf	1.10 /sf	184,087
2	Backer Boards At Elec/Tel/Data	500.00 Sf	8.00 /Sf	4,000
	Carpentry		1.124/sf	188,087
	167,352.00 sf			
	ROUGH CARPENTRY		1.124/sf	188,087
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-9200.100	Interior Caulking			
40	Caulking Interior Window Openings	4,240.00 lf	6.00 /lf	25,440
	Interior Caulking		0.152/sf	25,440
	167,352.00 sf			
07-9513.100	Expansion Covers			
12	Interior Expansion Joints	167,352.00 lf	0.30 /lf	50,206
	Expansion Covers		0.30 /sf	50,206
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.452/sf	75,646
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>THERMAL & MOIST PROTECT</i>		0.452/sf	75,646
	167,352.00 sf			
08-0000.000	<i>OPENINGS</i>			
08-1100.500	<i>HM Frames</i>			
100	BL1 5-4 w x 2-4 / HM Borrowed Lite Frames	14.00 ea	150.00 /ea	2,100
100	BL2 3 w x 4 / HM Borrowed Lite Frames	43.00 ea	140.00 /ea	6,020
100	BL3 4-8 w x 4 / HM Borrowed Lite Frames	12.00 ea	200.00 /ea	2,400
100	BL4 3w x 3 / HM Borrowed Lite Frames	4.00 ea	110.00 /ea	440
	<i>HM Frames</i>		0.065/sf	10,960
	167,352.00 sf			
08-4100.100	<i>Storefronts - Aluminum</i>			
10	SF-09 Alum. Storefront And Glazing 11 w x 9-4h	103.00 sf	80.00 /sf	8,240
10	SF-19 Alum. Storefront Frames And Glazing 10 w x 10h	100.00 sf	80.00 /sf	8,000
10	SF-20 Alum. Storefront And Glazing 21-6 w x 10h	215.00 sf	80.00 /sf	17,200
10	SF-22 Alum. Storefront And Glazing 13-8 w x 10h	137.00 sf	80.00 /sf	10,960
10	SF-23 Alum. Storefront And Glazing 23-5 w x 10h	234.00 sf	80.00 /sf	18,720
10	SF-24 Alum. Storefront And Glazing 9-0 w x 9-0h	81.00 sf	80.00 /sf	6,480
10	SF-25/26 Alum. Storefront Frames And Glazing 9-0 w x 6-0h	594.00 sf	80.00 /sf	47,520
	<i>Storefronts - Aluminum</i>		0.70 /sf	117,120
	167,352.00 sf			
08-4400.110	<i>Curtain Wall</i>			
1000	CW 5 *FR 16-9 x 10 Frames And Glazing [STAIR 5]	168.00 sf	235.00 /sf	39,480
1000	CW 6 *FR 9-5 x 10 Frames And Glazing [STAIR 5]	188.00 sf	235.00 /sf	44,180
1000	CW 7 *FR 2w x 10h Frames And Glazing [STAIR 5]	40.00 sf	235.00 /sf	9,400
1000	CW 8 *FR 9-10 x 10 Frames And Glazing [STAIR 5]	98.00 sf	235.00 /sf	23,030
1000	CW 9 *FR 16-9 x 10 Frames And Glazing [STAIR 5]	168.00 sf	235.00 /sf	39,480
1000	CW 10 *FR 27-2 x 10 Frames And Glazing [STAIR 5]	543.00 sf	235.00 /sf	127,605
	<i>Curtain Wall</i>		1.692/sf	283,175
	167,352.00 sf			
08-8100.100	<i>Glazing- Glass</i>			
100	Glazing BL1 5-4 w x 2-4 / HM Borrowed Lite Frames	174.00 sf	22.00 /sf	3,828
100	Glazing BL2 3 w x 4 / HM Borrowed Lite Frames	526.00 sf	22.00 /sf	11,572
100	Glazing BL3 4-8 w x 4 / HM Borrowed Lite Frames	224.00 sf	22.00 /sf	4,928
100	Glazing BL4 3w x 3 / HM Borrowed Lite Frames	36.00 sf	22.00 /sf	792
	<i>Glazing- Glass</i>		0.126/sf	21,120
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	OPENINGS		2.584/sf	432,375
	167,352.00 sf			
09-0000.000	FINISHES			
09-2000.010	Drywall Partitions			
100	A 14' HT- Non Rated w/ 6" Metal Studs 1 Layer of Gyp Each Side, Batt Insul.	101,794.00 sf	11.80 /sf	1,201,169
100	A 27'-6"HT- w/ 6" Metal Studs 1 Layer of Gyp Each Side, Batt Insul.	7,015.00 sf	12.50 /sf	87,688
100	A1 14' HT- 1 HR. w/ 6" Metal Studs 1 Layer of Gyp Each Side, Batt Insul.	1,982.00 sf	13.50 /sf	26,757
100	A2 14' HT- 2 HR. w/ 6" Metal Studs 2 Layers of Gyp Each Side, Batt Insul.	1,034.00 sf	16.00 /sf	16,544
100	B 14' HT- w/ 3 5/8" Metal Studs 1 Layer of Gyp Each Side, Batt Insul.	114.00 sf	10.80 /sf	1,231
100	F 14' HT- Non Rated w/ 2 1/2" Metal Stud, 1 Layer of Gyp, Batt Insul.	17,927.00 sf	7.00 /sf	125,489
100	F 27" HT- Non Rated w/ 2 1/2" Metal Stud, 1 Layer of Gyp, Batt Insul.	1,100.00 sf	7.50 /sf	8,250
100	F4 14' HT- 1 Layer Gyp. One Side w/ 3 5/8" Metal Studs, Batt Insul.	22,223.00 sf	8.75 /sf	194,451
100	F4 14' HT- 1 Layer Gyp. One Side w/ 3 5/8" Metal Studs, No Batt	3,354.00 sf	8.25 /sf	27,671
100	F6 14' HT- Non Rated Furring w/ 6" Metal Stud, 1 Layer of Gyp, Batt Insul.	21,488.00 sf	9.80 /sf	210,582
100	A1 Stair 1 1 HR RATED SEPARATION 6" 1 +1	2,380.00 sf	13.85 /sf	32,963
100	A1 Stair 2 1 HR RATED SEPARATION 6" 1 +1	1,967.00 sf	13.85 /sf	27,243
100	A1 Stair 3 1 HR RATED SEPARATION 6" 1 +1	834.00 sf	13.85 /sf	11,551
100	A1 Stair 4 1 HR RATED SEPARATION 6" 1 +1	834.00 sf	13.85 /sf	11,551
100	A1 Stair 5 1 HR RATED SEPARATION 6" 1 +1	1,397.00 sf	13.85 /sf	19,348
100	B1 Stair 5 1 HR RATED SEPARATION 3-5/8 1+1	541.00 sf	12.50 /sf	6,763
100	F4 Stair 1 2-1/2" 1+0	175.00 sf	7.00 /sf	1,225
100	F4 Stair 2 2-1/2" 1+0	102.00 sf	7.00 /sf	714
100	F4 Stair 3 2-1/2" 1+0	183.00 sf	7.00 /sf	1,281
100	F4 Stair 4 2-1/2" 1+0	183.00 sf	7.00 /sf	1,281
100	F6 Stair 2 6" 1+0	1,054.00 sf	10.00 /sf	10,540
100	S1 Stair 1SHAFTWALL 2-1/2" STUD 1 HR RATED W/ (1) LAYER 5/8" GYP BD (UL U415 SYSTEM A)	2,497.00 sf	24.00 /sf	59,928
100	S1 Stair 2 SHAFTWALL 2-1/2" STUD 1 HR RATED W/ (1) LAYER 5/8" GYP BD (UL U415 SYSTEM A)	1,319.00 sf	24.00 /sf	31,656
100	S1 Stair 3 SHAFTWALL 2-1/2" STUD 1 HR RATED W/ (1) LAYER 5/8" GYP BD (UL U415 SYSTEM A)	2,707.00 sf	24.00 /sf	64,968
100	S1 Stair 4 SHAFTWALL 2-1/2" STUD 1 HR RATED W/ (1) LAYER 5/8" GYP BD (UL U415 SYSTEM A)	2,707.00 sf	24.00 /sf	64,968
100	Scaffolding/Lifts/Logistics	167,352.00 sf	0.75 /sf	125,514
100	Cleanup	167,352.00 sf	1.50 /sf	251,028
100	Install Hollow Metal Door Frames	312.00 sf	210.00 /sf	65,520
	Drywall Partitions		16.061/sf	2,687,874
	167,352.00 sf			
	FINISHES		16.061/sf	2,687,874
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>FINISHES</i>		16.061/sf	2,687,874
	167,352.00 sf			
10-0000.000	<i>SPECIALTIES</i>			
10-2226.100	<i>Partitions Folding</i>			
2	1137 Operable Partition at Platform - Manual (26w +- x 10'h +-)	260.00 sf	68.00 /sf	17,680
	<i>Partitions Folding</i>		0.106/sf	17,680
	167,352.00 sf			
	<i>SPECIALTIES</i>		0.106/sf	17,680
	167,352.00 sf			
	<i>C1010 Interior Partitions</i>		21.946/sf	3,672,726
	167,352.00 sf			
C1020	<i>Interior Doors</i>			
05-0000.000	<i>METALS</i>			
05-5820.120	<i>Misc Steel</i>			
80	Overhead Support(s) - OH Coiling Grille at Kitchen (6'-6"w x 10'h)	6.50 lf	275.00 /lf	1,788
80	Overhead Support(s) - OH Coiling Grille at Kitchen (6'-6"w x 10'h)	6.50 lf	275.00 /lf	1,788
80	Overhead Support(s) - 1102 HSD Folding 15'-4w" x 8'h x 11-1/2"thk 90 Min	50.00 lf	275.00 /lf	13,750
80	Overhead Support(s) - 1202C FD Media 12'w x 8'h	12.00 lf	275.00 /lf	3,300
80	Overhead Support(s) - 1222B FD Kinder 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 1224B FD Kinder 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 2215A FD Alum. 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 2216A FD Alum. 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 2227A FD Alum. 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 2228A FD Alum. 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 3214A Alum. FD 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 3215A Alum. FD 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 3226A Alum. FD 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 3227A Alum. FD 8'w x 8'h	8.00 lf	275.00 /lf	2,200
	<i>Misc Steel</i>		0.255/sf	42,625
	167,352.00 sf			
	<i>METALS</i>		0.255/sf	42,625
	167,352.00 sf			
07-0000.000	<i>THERMAL & MOIST PROTECT</i>			
07-9200.100	<i>Interior Caulking</i>			
30	Caulking Interior Doors	13,062.00 lf	6.00 /lf	78,372

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Interior Caulking</i>		<i>0.468/sf</i>	<i>78,372</i>
	167,352.00 sf			
	<i>THERMAL & MOIST PROTECT</i>		<i>0.468/sf</i>	<i>78,372</i>
	167,352.00 sf			
08-0000.000	OPENINGS			
08-1100.300	Doors - Hollow Metal Doors And Frames			
10	HM Doors	0.00	NAM E	
10	Door F - 3' X 7' HM - Pair	6.00	ea	245.00 /ea
10	Door F - 3' X 7' HM -Single	3.00	ea	245.00 /ea
10	Door F - 3' X 7' -Single - Unknow Material	11.00	ea	245.00 /ea
10	Door F - 3' X 7' - Pair - Unknow Material	4.00	ea	245.00 /ea
10	Door FG - 3' X 7' - Pair (GL-3.4sqft) - Unknown Material	6.00	ea	300.00 /ea
10	Door F - 3' X 7' HM - Pair (60 MIN.)	2.00	ea	280.00 /ea
10	Door F - 3' X 7' HM -Single (90MIN.)	1.00	ea	300.00 /ea
220	FRAMES	0.00	NAM E	
220	Frame 1 - HM 3'-4" x 7'-4"	9.00	ea	220.00 /ea
220	Frame 1 - HM 3'-4" x 7'-4" (60 MIN.)	1.00	ea	250.00 /ea
220	Frame 2 - HM 6'-4" x 7'-4"	7.00	ea	250.00 /ea
220	Frame 3 - HM 3'-4" x 7'-2"	144.00	ea	220.00 /ea
220	Frame 3 - HM 3'-4" x 7'-2" (90 MIN.)	2.00	ea	240.00 /ea
220	Frame 4 - HM 6'-4" X 7'-2"	13.00	ea	250.00 /ea
220	Frame 4 - HM 6'-4" X 7'-2" (60 MIN.)	15.00	ea	220.00 /ea
220	Frame 4 - HM 6'-4" X 7'-2" (90 MIN.)	1.00	ea	275.00 /ea
220	Frame 5 - HM 4'-8" X 7'-2" w/ Glass	19.00	ea	480.00 /ea
220	Frame 6 - HM 5' X 8'-10" w/ Glass	84.00	ea	500.00 /ea
220	Frame 7 - HM 6'-4" X 8'-10" w/ Glass	8.00	ea	550.00 /ea
220	Frame 8 - HM 4'-10" X 7'-4" w/ Glass	1.00	ea	475.00 /ea
220	Frame UK - Missing Info	5.00	ea	300.00 /ea
220	FRAMES	0.00	NAM E	
	<i>Doors - Hollow Metal Doors And Frames</i>		<i>0.651/sf</i>	<i>109,000</i>
	167,352.00 sf			
08-1400.200	Doors - Wood			
102	Door F - 3' X 7' Wood -Single	128.00	ea	450.00 /ea
102	Door F - 3' X 7' Wood - Pair	46.00	ea	450.00 /ea
102	Door FG - 3 X 7' Wood - Single (GL-3.4sqft)	82.00	ea	550.00 /ea
102	Door FG - 3' X 7' Wood - Pair (GL-3.4sqft)	4.00	ea	550.00 /ea
102	Door G - 3' X 7' Wood - Single (GL 1.7)	1.00	ea	500.00 /ea
102	Door N - 3' X 7' Wood - Single (GL .83)	36.00	ea	500.00 /ea
102	Door F - 3' X 7' Wood -Single (90 MIN.)	1.00	ea	575.00 /ea
102	Door F - 3' X 7' Wood -Single (60 MIN.)	1.00	ea	575.00 /ea
102	Door F - 3' X 7' Wood - Pair (60 MIN.)	24.00	ea	575.00 /ea
102	Door F - 3' X 7' Wood - Pair (90 MIN.)	2.00	ea	575.00 /ea
	<i>Doors - Wood</i>		<i>0.957/sf</i>	<i>160,200</i>
	167,352.00 sf			
08-3500.100	Doors- Coiling			
50	OH Coiling Grille at Kitchen (6'-6"w x 10'h)	2.00	ea	9,800.00 /ea
				19,600

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Doors- Coiling</i>		0.117/sf	19,600
	167,352.00 sf			
08-3513.230	<i>Acordian Folding Fire Door</i>			
60	1102 HSD Folding WON 15'-4w" x8'h x 11-1/2"thk 90 Min	122.64 sf	225.00 /sf	27,594
60	2102 HSD Folding WON 15'-4w" x8'h x 11-1/2"thk 90 Min	122.64 sf	225.00 /sf	27,594
60	3102 HSD Folding WON 15'-4w" x8'h x 11-1/2"thk 90 Min	122.64 sf	225.00 /sf	27,594
	<i>Acordian Folding Fire Door</i>		0.495/sf	82,782
	167,352.00 sf			
08-4200.100	<i>Storefront Entrances</i>			
150	1101E Lobby 1101 Ext. Double Doors, Hardware 6w x 7h +-	1.00 pr	6,200.00 /pr	6,200
150	1101F Lobby 1101 Ext. Single Door, Hardware 3w x 7h +-	1.00 ea	3,200.00 /ea	3,200
150	1134A Corr. 1134 Double Doors, Hardware 6w x 7h +-	1.00 pr	6,200.00 /pr	6,200
150	1140A Cafe Double Door, Hardware 6w x 7h +-	1.00 pr	6,200.00 /pr	6,200
150	1140B Cafe Double Door, Hardware 6w x 7h +-	1.00 pr	6,200.00 /pr	6,200
150	1140C Quiet Single Door, Hardware 3w x 7h +-	1.00 ea	3,200.00 /ea	3,200
150	1140E Quiet Single Door, Hardware 3w x 7h +-	1.00 ea	3,200.00 /ea	3,200
	<i>Storefront Entrances</i>		0.206/sf	34,400
	167,352.00 sf			
08-4450.100	<i>Curtain Wall Entrances</i>			
005	S5-1 *FR Stair 5 Pair Doors, Hardware 6w x 7h +-	1.00 pr	7,800.00 /pr	7,800
005	S5-1 *FR Stair 5 Pair Doors, Hardware 6w x 7h +-	1.00 pr	7,800.00 /pr	7,800
005	S5-2 *FR Stair 5 Pair Doors, Hardware 6w x 7h +-	1.00 pr	7,800.00 /pr	7,800
005	S5-3 *FR Stair 5 Pair Doors, Hardware 6w x 7h +-	1.00 pr	7,800.00 /pr	7,800
	<i>Curtain Wall Entrances</i>		0.186/sf	31,200
	167,352.00 sf			
08-7100.090	<i>Finish Hardware</i>			
10	FURNISH INSTALL HARDWARE	0.00 NAM E		
10	Hardware Material Install Single	261.00 ea	975.00 /ea	254,475
10	Hardware Material Install Pair	33.00 pr	1,800.00 /pr	59,400
10	Hardware Material Install Sound Assembly Single	3.00 ea	1,050.00 /ea	3,150
10	Hardware Material Install Sound Assembly Pair	14.00 pr	2,100.00 /pr	29,400
	<i>Finish Hardware</i>		2.07 /sf	346,425
	167,352.00 sf			
08-8100.100	<i>Glazing- Glass</i>			
100	Interior Sidelight Glass	1,027.00 sf	22.00 /sf	22,594
100	Interior Sidelight Glass at Frames	1,622.80 sf	22.00 /sf	35,702
100	Interior Glass at Doors	344.40 sf	22.00 /sf	7,577

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Glazing- Glass</i>		0.394/sf	65,872
	167,352.00 sf			
	<i>OPENINGS</i>		5.076/sf	849,479
	167,352.00 sf			
	111,020.20 Labor hours			
09-0000.000	<i>FINISHES</i>			
09-9123.200	<i>Painting- Interior</i>			
40	Paint Frame(s) - Single HM	265.00 ea	230.00 /ea	60,950
40	Paint Frame(s) - Double HM	47.00 ea	275.00 /ea	12,925
40	Paint Door(s) HM	33.00 ea	330.00 /ea	10,890
	<i>Painting- Interior</i>		0.507/sf	84,765
	167,352.00 sf			
	<i>FINISHES</i>		0.507/sf	84,765
	167,352.00 sf			
10-0000.000	<i>SPECIALTIES</i>			
10-2226.100	<i>Partitions Folding</i>			
2	1202C FD Alum. Media 12'w x 8'h	96.00 sf	240.00 /sf	23,040
2	1222B FD Alum. Kinder 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	1224B FD Alum. Kinder 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	2215A FD Alum. 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	2216A FD Alum. 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	2227A FD Alum. 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	2228A FD Alum. 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	3214A Alum. FD 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	3215A Alum. FD 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	3226A Alum. FD 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	3227A Alum. FD 8'w x 8'h	64.00 sf	240.00 /sf	15,360
	<i>Partitions Folding</i>		1.055/sf	176,640
	167,352.00 sf			
	<i>SPECIALTIES</i>		1.055/sf	176,640
	167,352.00 sf			
	<i>C1020 Interior Doors</i>		7.361/sf	1,231,881
	167,352.00 sf			
	111,020.20 Labor hours			
C1030	<i>Fittings</i>			
05-0000.000	<i>METALS</i>			
05-5820.120	<i>Misc Steel</i>			
10	Platform Rails (4 - 1 Upper One Lower Each Side) A7.12	138.00 lf	165.00 /lf	22,770
10	Loading Dock Rails A7.12 (2 Double Rails)	20.00 lf	225.00 /lf	4,500

Design Development Budget Estimate Uniformat

Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
05-5820.120	Misc Steel				
10	Ballet Rails	7.00 lf	165.00 /lf		1,155
10	Misc Metals	167,352.00 lf	0.75 /lf		125,514
	Misc Steel		0.92 /sf		153,939
	167,352.00 sf				
	METALS		0.92 /sf		153,939
	167,352.00 sf				
06-2000.000	FINISH CARPENTRY				
06-2000.010	Finish Carpentry				
2	Media Bench 5' +-	3.00 ea	2,200.00 /ea		6,600
2	Cafe Benches	4.00 ea	3,200.00 /ea		12,800
2	Window Seats Inspiration AQ1.51	12.00 ea	2,800.00 /ea		33,600
2	Media 3Form Wall Features 1	60.00 sf	175.00 /sf		10,500
2	Media 3Form Wall Features 2	60.00 sf	175.00 /sf		10,500
2	Media 3Form Wall Features 3	60.00 sf	175.00 /sf		10,500
2	Media 3Form Wall Features 4	60.00 sf	175.00 /sf		10,500
2	No window Sills Shown - Details	167,352.00 ALLO W	0.50 /ALLO W		83,676
	Finish Carpentry		1.068/sf		178,676
	167,352.00 sf				
	FINISH CARPENTRY		1.068/sf		178,676
	167,352.00 sf				
06-4100.000	ARCHITECTURAL WOOD CASEWORK				
06-4210.120	Wood Veneer Panels				
c 10	Wood Veneer Wainscot Per - Supplement #4	1,500.00 sf	80.00 /sf		120,000
c 10	Wood Veneer Panels At Platform	800.00 sf	75.00 /sf		60,000
	Wood Veneer Panels		1.076/sf		180,000
	167,352.00 sf				
	ARCHITECTURAL WOOD CASEWORK		1.076/sf		180,000
	167,352.00 sf				
08-0000.000	OPENINGS				
08-8100.100	Glazing- Glass				
100	Wall of Mirrors in OT/PT	200.00 sf	42.00 /sf		8,400
	Glazing- Glass		0.05 /sf		8,400
	167,352.00 sf				
	OPENINGS		0.05 /sf		8,400
	167,352.00 sf				
10-0000.000	SPECIALTIES				

Design Development Budget Estimate Uniformat

Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
10-1113.100	<i>Chalkboards/Markerboards</i>				
2	MB 4' x 5'	3,360.00	sf	22.00 /sf	73,920
2	MB 6' x 5'	120.00	sf	22.00 /sf	2,640
2	MB 8'x 5'	3,520.00	sf	22.00 /sf	77,440
2	TB 4' X 4'	1,200.00	sf	20.00 /sf	24,000
2	TB 6' X 4'	816.00	sf	20.00 /sf	16,320
2	TB 8' X 4'	320.00	sf	20.00 /sf	6,400
2	Tack Strip At 3" +- <i>Chalkboards/Markerboards</i>	3,000.00	lf	6.00 /lf	18,000
				<u>1.307/sf</u>	<u>218,720</u>
	167,352.00 sf				
10-1133.100	<i>Display Cases</i>				
10	Glass Display Cases 6' x 8' x 1'-7"	2.00	ea	8,500.00 /ea	17,000
10	Display 1202 7'-6" x 24' x 2' <i>Display Cases</i>	1.00	ea	30,720.00 /ea	30,720
				<u>0.285/sf</u>	<u>47,720</u>
	167,352.00 sf				
10-1400.120	<i>Signs - Interior</i>				
110	Building Ditory - Signage Allowance <i>Signs - Interior</i>	167,352.00	sf	0.55 /sf	92,044
				<u>0.55 /sf</u>	<u>92,044</u>
	167,352.00 sf				
10-2113.110	<i>Toilet Partitions</i>				
2	ADA Toilet Compartment (Solid Polymer Resin, Radiused Edges, Solid Color)	12.00	ea	1,800.00 /ea	21,600
2	Standard Toilet Compartment (Solid Polymer Resin, Radiused Edges, Solid Color)	48.00	ea	1,400.00 /ea	67,200
2	Urinal Screen (Solid Polymer Resin, Radiused Edges, Solid Color)	6.00	ea	375.00 /ea	2,250
	<i>Toilet Partitions</i>			<u>0.544/sf</u>	<u>91,050</u>
	167,352.00 sf				
10-2123.200	<i>Curtains & Track</i>				
2	Cubicle Curtains and Track <i>Curtains & Track</i>	80.00	lf	75.00 /lf	6,000
				<u>0.036/sf</u>	<u>6,000</u>
	167,352.00 sf				
10-2613.100	<i>Corner Guards</i>				
2	Corner Guard - Stainless Steel Allowance <i>Corner Guards</i>	150.00	ea	175.00 /ea	26,250
				<u>0.157/sf</u>	<u>26,250</u>
	167,352.00 sf				
10-2813.100	<i>Toilet Accessories</i>				
2	Waste Receptacle (WR)(20 Gallons 11.5" x 20.6")	44.00	ea	200.00 /ea	8,800
2	Mirrors, Framed (MIR, CLD-MIR, PK-MIR)	56.00	ea	450.00 /ea	25,200
2	Sanitary Napkin Disposal Unit (SND)	12.00	ea	95.00 /ea	1,140
2	Sanitary Napkin Double-Disposal Unit (SND)	24.00	ea	185.00 /ea	4,440
2	Shower Curtain Rod and Curtain (SC)	1.00	ea	386.00 /ea	386
2	Folding Shower Seat (FSS)	1.00	ea	575.00 /ea	575
2	Towel bar (TB)	1.00	ea	250.00 /ea	250
2	Robe Hook (RB HK)	1.00	ea	95.00 /ea	95

Design Development Budget Estimate Uniformat

Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
10-2813.100	<i>Toilet Accessories</i>				
2	Hook Strip (HS)	1.00 ea	170.00 /ea		170
2	Baby Changing Table (CHGTB)	2.00 ea	785.00 /ea		1,570
2	Utility Shelf/Mop and Broom Holder (MH)	4.00 ea	225.00 /ea		900
2	Grab Bar 42"	79.00 ea	185.00 /ea		14,615
2	Grab Bar 36"	9.00 ea	155.00 /ea		1,395
2	OFOI Toilet Paper Dispenser (TPD)	92.00 BY	55.00 /BY		5,060
			OTHER		
2	OFOI Paper Towel Dispenser (PTD)	44.00 BY	375.00 /BY		16,500
			OTHER		
2	OFOI Soap Dispenser (SD)	50.00 BY	55.00 /BY		2,750
			OTHER		
	<i>Toilet Accessories</i>			<u>0.501/sf</u>	<u>83,846</u>
	167,352.00 sf				
10-4413.100	<i>Fire Cabinets</i>				
30	Fire Extinguisher and Cabinet	45.00 ea	475.00 /ea		21,375
30	Fire Extinguisher at Mechanical Area(s)	14.00 ea	225.00 /ea		3,150
30	A.E.D. With Cabinet	2.00 ea	2,200.00 /ea		4,400
	<i>Fire Cabinets</i>			<u>0.173/sf</u>	<u>28,925</u>
	167,352.00 sf				
10-5100.100	<i>Lockers Metal</i>				
10	Double Tier HDPE Student Lockers 12" x 15" x 60"	192.00 ea	725.00 /ea		139,200
10	Single Tier HDPE Lockers Level 2	435.00 ea	420.00 /ea		182,700
10	Staff Metal Lockers	5.00 ea	165.00 /ea		825
	<i>Lockers Metal</i>			<u>1.928/sf</u>	<u>322,725</u>
	167,352.00 sf				
	<i>SPECIALTIES</i>			5.481/sf	917,280
	167,352.00 sf				
	<i>C1030 Fittings</i>			8.594/sf	1,438,295
	167,352.00 sf				
	C10 INTERIOR CONSTRUCTION			37.902/sf	6,342,902
	167,352.00 sf				
C20	STAIRS				
C2010	<i>Stair Construction</i>				
03-0000.000	<i>CONCRETE</i>				
03-0010.160	<i>Concrete - Stairs And Landings</i>				
105	Stair 1	2.00 Flt	2,200.00 /Flt		4,400
105	Stair 2 To Roof	3.00 Flt	2,200.00 /Flt		6,600

Design Development Budget Estimate Uniformat

Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
03-0010.160	Concrete - Stairs And Landings				
105	Stair 3	2.00	Flt	2,200.00 /Flt	4,400
105	Stair 4	2.00	Flt	2,200.00 /Flt	4,400
105	Stair 5	2.00	Flt	2,200.00 /Flt	4,400
	Concrete - Stairs And Landings			<u>0.145/sf</u>	<u>24,200</u>
	167,352.00 sf				
	CONCRETE			0.145/sf	24,200
	167,352.00 sf				
05-0000.000	METALS				
05-5113.100	Stairs & Ladders				
10	Stair 1	2.00	Flt	20,000.00 /Flt	40,000
10	Stair 2 To Roof	3.00	Flt	20,000.00 /Flt	60,000
10	Stair 3	2.00	Flt	20,000.00 /Flt	40,000
10	Stair 4	2.00	Flt	20,000.00 /Flt	40,000
10	Stair 5	2.00	Flt	20,000.00 /Flt	40,000
	Stairs & Ladders			<u>1.315/sf</u>	<u>220,000</u>
	167,352.00 sf				
05-5213.200	Handrails - Guardrails				
10	Stair 1 Wall Railings	108.00	lf	120.00 /lf	12,960
10	Stair 2 Wall Railings	152.00	lf	120.00 /lf	18,240
10	Stair 3 Wall Railings	108.00	lf	120.00 /lf	12,960
10	Stair 4 Wall Railings	108.00	lf	120.00 /lf	12,960
10	Stair 5 Wall Railings	100.00	lf	120.00 /lf	12,000
10	Stair 1 Baluster Railings	80.00	lf	225.00 /lf	18,000
10	Stair 2 Baluster Railings	102.00	lf	225.00 /lf	22,950
10	Stair 3 Baluster Railings	80.00	lf	225.00 /lf	18,000
10	Stair 4 Baluster Railings	80.00	lf	225.00 /lf	18,000
10	Stair 5 Baluster Railings	90.00	lf	225.00 /lf	20,250
	Handrails - Guardrails			<u>0.994/sf</u>	<u>166,320</u>
	167,352.00 sf				
	METALS			2.308/sf	386,320
	167,352.00 sf				
	C2010 Stair Construction			2.453/sf	410,520
	167,352.00 sf				
C2020	Stair Finishes				
09-0000.000	FINISHES				
09-6500.200	Flooring- Resilient Stair				
2	RFL Rubber Sheet Flooring At Stairs	3,050.00	sf	14.00 /sf	42,700
2	RRT Rubber Treads And Risers Stair 1	248.00	lf	22.00 /lf	5,456
2	RRT Rubber Treads And Risers Stair 2	378.00	lf	22.00 /lf	8,316
2	RRT Rubber Treads And Risers Stair 3	248.00	lf	22.00 /lf	5,456
2	RRT Rubber Treads And Risers Stair 4	248.00	lf	22.00 /lf	5,456
2	RRT Rubber Treads And Risers Stair 5	248.00	lf	22.00 /lf	5,456
2	RFL Rubber Sheet Flooring Minor Preparation	4,420.00	sf	0.75 /sf	3,315

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
09-6500.200	<i>Flooring- Resilient Stair</i>				
2	RFL Rubber Sheet Flooring Initial Cleaning Per Manu. Require.	4,420.00 sf	0.80 /sf		3,536
2	RFL Rubber Sheet Flooring Protection Per Manu.Require.	4,420.00 sf	0.75 /sf		3,315
2	RFL Rubber Sheet Flooring In Place Mock-up	0.00 MOC K-UP			
	<i>Flooring- Resilient Stair</i>		<u>0.496/sf</u>		<u>83,006</u>
	167,352.00 sf				
09-9123.200	<i>Painting- Interior</i>				
30	Paint Stair Well 1	2.00 Flt	2,500.00 /Flt		5,000
30	Paint Stair Well 2	3.00 Flt	2,500.00 /Flt		7,500
30	Paint Stair Well 3	2.00 Flt	2,500.00 /Flt		5,000
30	Paint Stair Well 4	2.00 Flt	2,500.00 /Flt		5,000
30	Paint Stair Well 5	2.00 Flt	2,500.00 /Flt		5,000
	<i>Painting- Interior</i>		<u>0.164/sf</u>		<u>27,500</u>
	167,352.00 sf				
	<i>FINISHES</i>		0.66 /sf		110,506
	167,352.00 sf				
	<i>C2020 Stair Finishes</i>		0.66 /sf		110,506
	167,352.00 sf				
	C20 STAIRS		3.113/sf		521,026
	167,352.00 sf				
C30	INTERIOR FINISHES				
C3010	<i>Wall Finishes</i>				
06-2000.000	<i>FINISH CARPENTRY</i>				
06-2000.010	<i>Finish Carpentry</i>				
2	FRP at Kitchen 10' HT	2,044.00 sf	12.00 /sf		24,528
2	FRP at Janitors Closet per A9.01 & A9.02 10' HT (ALT)	800.00 sf	12.00 /sf		9,600
	<i>Finish Carpentry</i>		<u>0.204/sf</u>		<u>34,128</u>
	167,352.00 sf				
	<i>FINISH CARPENTRY</i>		0.204/sf		34,128
	167,352.00 sf				
09-0000.000	<i>FINISHES</i>				
09-3100.100	<i>Wall Tile</i>				
50	8' Glazed Porcelain Wall Tile w/ Integral 6" Epoxy Cove Base	12,770.00 sf	22.00 /sf		280,940
50	5' Wall Tile w/ Schluter Trim	259.00 sf	22.00 /sf		5,698

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
09-3100.100	Wall Tile				
50	10' Glazed Porcelain Wall Tile (Student Facing Walls)	1,079.00 sf	22.00 /sf		23,738
50	4'-0" Wall Tile at Janitors Closet Utility Sink Location (PER Supp. #4)	158.00 sf	22.00 /sf		3,476
50	Tile Back Wall at Water Fountain (PER Supp. #4) *****	457.00 sf	22.00 /sf		10,054
	Wall Tile			1.935/sf	323,906
	167,352.00 sf				
09-7216.110	Wall Covering Vinyl				
2	Wall Coverings	1,600.00 ls	38.00 /ls		60,800
	Wall Covering Vinyl			0.363/sf	60,800
	167,352.00 sf				
09-8400.100	Acoustical Panels				
2	Acoustical Wall Panels Gym Per Finish Schedule	1,200.00 Allow	28.00 /Allow		33,600
2	Acoustical Wall Panels Cafeteria / Curved / Wood???	2,200.00 sf	28.00 /sf		61,600
2	Acoustical Wall Panel Ensemble/Music/Practice	1,310.00 sf	28.00 /sf		36,680
2	Acoustical Wall Panels Media Center	200.00 sf	28.00 /sf		5,600
	Acoustical Panels			0.822/sf	137,480
	167,352.00 sf				
09-9123.200	Painting- Interior				
10	Paint Walls	289,000.00 sf	0.80 /sf		231,200
10	Paint Walls CMU	8,400.00 sf	1.10 /sf		9,240
20	Paint GWB Vertical Soffits	4,400.00 sf	1.25 /sf		5,500
20	Paint Green Screen	150.00 sf	4.00 /sf		600
20	Paint Borrowed Lites HM	73.00 ea	175.00 /ea		12,775
	Painting- Interior			1.55 /sf	259,315
	167,352.00 sf				
	FINISHES			4.67 /sf	781,501
	167,352.00 sf				
	C3010 Wall Finishes			4.874/sf	815,629
	167,352.00 sf				
C3020	Floor Finishes				
09-0000.000	FINISHES				
09-3100.200	Tile				
2	CQT Corridor 1153	397.00 sf	20.00 /sf		7,940
2	CQT Floor Minor Preparation	397.00 sf	0.75 /sf		298
2	CQT Flooring Initial Cleaning Per Manu.Require	397.00 lf	0.40 /lf		159
2	CQT Tile Floor Protection With Red-Rosin Paper (Part 3)	397.00 sf	0.35 /sf		139
2	CQT Tile Owner Exta Materials at 5% (Package,Deliver)	19.85 sf			
2	CQT Tile Mock-up Minimum 25 sf In Place	25.00 sf			

Design Development Budget Estimate Uniformat

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Tile</i>		<i>0.051/sf</i>	<i>8,536</i>
	<i>167,352.00 sf</i>			
09-3116.100	<i>Tile- Quarry</i>			
2	Quarry Tile	1,820.00 sf	24.00 /sf	43,680
2	Quarry Tile Base	330.00 lf	20.00 /lf	6,600
2	Quarry Tile Minor Preparation	1,820.00 sf	0.75 /sf	1,365
2	Quarry Tile Initial Cleaning Per Manu.Require	1,820.00 sf	0.30 /sf	546
2	Quarry Tile Protection With Red-Rosin Paper (Part 3)	1,820.00 sf	0.75 /sf	1,365
2	Quarry Tile Owner Exta Materials at 5% (Package,Deliver)	91.00 sf		
2	Quarry Tile Mock-up Minimum 25 sf In Place			
	<i>Tile- Quarry</i>		<i>0.32 /sf</i>	<i>53,556</i>
	<i>167,352.00 sf</i>			
09-6400.100	<i>Flooring- Wood</i>			
145	-- Gymnasium Wood Athletic Floor , Robbins, Inc, Bio-Channel Star	6,000.00 sf	18.75 /sf	112,500
145	Gymnasium Wood Athletic Floor Vented Base	254.00 lf	7.50 /lf	1,905
145	Floor Minor Preparation	6,000.00 sf	0.75 /sf	4,500
145	Gymnasium Wood Athletic Flooring Polish and Clean Per Manufactures Requirements	6,000.00 sf	0.50 /sf	3,000
145	Gymnasium Wood Athletic Flooring Protection With Red-Rosin Paper (Part 3)	6,000.00 sf	0.75 /sf	4,500
145	Gymnasium Wood Athletic Floor Owner Extra Materials at 5% (Package,Deliver)	355.00 sf		
145	-- Platform Wood Strip and Plank Flooring - Sleeper System	1,104.00 sf	22.00 /sf	24,288
145	Platform Wood Strip and Plank Flooring Vented Base	140.00 lf	7.251 /lf	1,015
145	Floor Minor Preparation	1,104.00 sf	1.25 /sf	1,380
145	Platform Wood and Plank Flooring Polish and Clean Per Manufactures Requirements	1,104.00 sf	0.50 /sf	552
145	Platform Wood and Plank Flooring Protection With Red-Rosin Paper (Part 3)	1,104.00 sf	0.75 /sf	828
145	Platform Wood and Plank Flooring Owner Extra Materials at 5% (Package,Deliver)	0.00 sf		
	<i>Flooring- Wood</i>		<i>0.923/sf</i>	<i>154,468</i>
	<i>167,352.00 sf</i>			
09-6500.100	<i>Flooring- Resilient</i>			
2	Linoleum - 1	89,071.00 sf	6.85 /sf	610,136
2	Linoleum - 2	4,043.00 sf	6.85 /sf	27,695
2	Linoleum - 3	5,136.00 sf	6.85 /sf	35,182
2	Linoleum - 4	6,658.00 sf	6.85 /sf	45,607
2	Linoleum - 5	6,303.00 sf	6.85 /sf	43,176
2	Linoleum Floor Minor Preparation	111,211.00 sf	0.75 /sf	83,408
2	Linoleum Flooring Initial Cleaning Per Manu.Require	111,211.00 sf	0.30 /sf	33,363
2	Linoleum Flooring Protection Per Manu.Require. Flooring	111,211.00 sf	0.35 /sf	38,924
2	Linoleum Owner Exta Materials at 5% (Package,Deliver)	5,560.55 sf		
2	Linoleum Mock-up Minimum 25 sf In Place	111,211.00 sf		
2	LVT 1 Flooring Records Room 1115	111.00 sf	6.50 /sf	722
2	LVT 1 Flooring Minor Preparation	111.00 sf	1.25 /sf	139
2	LVT 1 Flooring Initial Cleaning Per Manu.Require	111.00 sf	0.50 /sf	56

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
09-6500.100	<i>Flooring- Resilient</i>				
2	LVT 1 Flooring Protection Per Manu.Require. Flooring	111.00	sf	0.75 /sf	83
2	Owner Exta Materials At 5% (Package,Deliver)	5.55	sf		
2	LVT Flooring In Place Mock-up	0.00	MOC K-UP		
2	Rubber Flooring	2,284.00	sf	14.00 /sf	31,976
2	Rubber Flooring Minor Preparation	2,284.00	sf	1.25 /sf	2,855
2	Rubber Flooring Initial Cleaning Per Manu.Require	2,284.00	sf	0.50 /sf	1,142
2	Rubber Flooring Protection Per Manu.Require. Flooring	2,284.00	sf	0.75 /sf	1,713
2	Owner Exta Materials At 5% (Package,Deliver)	114.20	sf		
2	Rubber Flooring In Place Mock-up	0.00	MOC K-UP		
2	Resilient Athletic Flooring	860.00	sf	14.00 /sf	12,040
2	Resilient Athletic Flooring Minor Preparation	860.00	sf	1.25 /sf	1,075
2	Resilient Athletic Flooring Initial Cleaning Per Manu.Require	860.00	sf	0.50 /sf	430
2	Resilient Athletic Flooring Protection Per Manu.Require. Flooring	860.00	sf	0.75 /sf	645
2	Owner Exta Materials At 5% (Package,Deliver)	43.00	sf		
2	Resilient Athletic Flooring In Place Mock-up	0.00	MOC K-UP		
2	SDT -1 Flooring RM MDF 2111	166.00	sf	11.00 /sf	1,826
2	SDT -1 Flooring Flooring Minor Preparation	166.00	sf	1.25 /sf	208
2	SDT -1 Flooring Flooring Initial Cleaning Per Manu.Require	166.00	sf	0.50 /sf	83
2	SDT -1 Flooring Flooring Protection Per Manu.Require. Flooring	166.00	sf	0.75 /sf	125
2	Owner Exta Materials At 5% (Package,Deliver)	166.00	sf		
2	Resilient Athletic Flooring In Place Mock-up	0.00	MOC K-UP		
	<i>Flooring- Resilient</i>			<u>5.812/sf</u>	<u>972,607</u>
	167,352.00 sf				
09-6500.110	<i>Flooring Base</i>				
2	Resilient Base	22,000.00	lf	3.35 /lf	73,700
2	Resilient Base Owner Exta Materials at 5% (Package,Deliver)	1,100.00	lf	2.25 /lf	2,475
	<i>Flooring Base</i>			<u>0.455/sf</u>	<u>76,175</u>
	167,352.00 sf				
09-6700.110	<i>Epoxy Flooring</i>				
10	Epoxy Applied Flooring	6,942.00	sf	14.50 /sf	100,659
10	Epoxy Applied Flooring Integral Base	1,200.00	lf	16.00 /lf	19,200
10	Epoxy Flooring Minor Preparation	6,942.00	sf	0.75 /sf	5,207
10	Epoxy Flooring Initial Cleaning Per Manu.Require	6,942.00	sf	0.30 /sf	2,083
10	Epoxy Flooring Protection Per Manu.Require. Flooring	6,942.00	sf	0.25 /sf	1,736
10	Owner Exta Materials At 5% (Package,Deliver)	350.00	sf		
10	Epoxy Flooring In Place Mock-up	0.00	MOC K-UP		
	<i>Epoxy Flooring</i>			<u>0.77 /sf</u>	<u>128,884</u>
	167,352.00 sf				
09-6800.100	<i>Flooring - Carpet</i>				
f 10	Carpet Tile	12,614.00	sf	5.70 /sf	71,900

Design Development Budget Estimate Uniformat

Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
09-6800.100	<i>Flooring - Carpet</i>				
f 10	Floor Minor Preparation	12,614.00 sf	0.75 /sf		9,461
f 10	Floor Protection / Cover with not less than 6-mil thick polyethylene covering with taped joints	12,614.00 sf	0.35 /sf		4,415
f 10	Clean and Vacuum Carpet Surfaces Upon Completion of The Installation.	12,614.00 sf	0.18 /sf		2,271
f 10	Carpet Tile Mock-up Minimum 25 sf In Place	12,614.00 sf			
f 10	Carpet Tile Owner Extra Materials at 5% (Package,Deliver)	630.700 sf			
	<i>Flooring - Carpet</i>			<u>0.526/sf</u>	<u>88,046</u>
	167,352.00 sf				
09-9101.100	<i>Painting - Sealing Floors</i>				
120	Paint - Seal Concrete Slabs	5,775.00 sf	1.50 /sf		8,663
120	Floor Minor Preparation	5,775.00 sf	0.50 /sf		2,888
120	Floor Protection (Part 3)	5,775.00 sf	0.75 /sf		4,331
	<i>Painting - Sealing Floors</i>			<u>0.095/sf</u>	<u>15,881</u>
	167,352.00 sf				
	<i>FINISHES</i>			8.952/sf	1,498,152
	167,352.00 sf				
	<i>C3020 Floor Finishes</i>			8.952/sf	1,498,152
	167,352.00 sf				
C3030	<i>Ceiling Finishes</i>				
06-4100.000	<i>ARCHITECTURAL WOOD CASEWORK</i>				
06-4210.120	<i>Wood Veneer Panels</i>				
c 10	WD-1 Ceilings	5,587.00 sf	42.00 /sf		234,654
	<i>Wood Veneer Panels</i>			<u>1.402/sf</u>	<u>234,654</u>
	167,352.00 sf				
	<i>ARCHITECTURAL WOOD CASEWORK</i>			1.402/sf	234,654
	167,352.00 sf				
09-0000.000	<i>FINISHES</i>				
09-2000.014	<i>Drywall Ceilings</i>				
2499	GWB Ceilings And Flat Soffits	8,444.00 sf	15.00 /sf		126,660
2499	GWB Vertical Soffits	5,800.00 sf	15.00 /sf		87,000
	<i>Drywall Ceilings</i>			<u>1.277/sf</u>	<u>213,660</u>
	167,352.00 sf				
09-5000.110	<i>Ceilings - ACT</i>				
2	ACP - 1	85,496.00 sf	4.70 /sf		401,831
2	ACP - 1A	26,874.00 sf	5.00 /sf		134,370
2	ACP - 1A Black Ceiling Tile Green Room	198.00 sf	5.00 /sf		990
2	ACP - 2A	332.00 sf	5.00 /sf		1,660
2	ACP - 4	655.00 sf	6.50 /sf		4,258

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
09-5000.110	Ceilings - ACT			
2	ACP - 6	2,227.00 sf	60.00 /sf	133,620
2	ACP - 6A	2,651.00 sf	60.00 /sf	159,060
2	ACP - 7	2,377.00 sf	5.50 /sf	13,074
2	ACP - 1 Cafe	2,156.00 sf	6.00 /sf	12,936
2	ACP Cafe Platform Soffit	649.00 sf	70.00 /sf	45,430
	Ceilings - ACT		5.421/sf	907,228
	167,352.00 sf			
09-8400.100	Acoustical Panels			
2	ACP - 9 Tectum Gym Panels -Spec 60% NIC	5,688.00 NIC		
09-9123.200	Painting- Interior			
20	Paint GWB Ceilings/Soffits	14,244.00 sf	1.50 /sf	21,366
20	Paint Exposed Ceilings	7,402.00 sf	3.00 /sf	22,206
	Painting- Interior		0.26 /sf	43,572
	167,352.00 sf			
	FINISHES		6.958/sf	1,164,460
	167,352.00 sf			
	C3030 Ceiling Finishes		8.36 /sf	1,399,114
	167,352.00 sf			
	C30 INTERIOR FINISHES		22.186/sf	3,712,895
	167,352.00 sf			
	C INTERIORS		63.201/sf	10,576,823
	167,352.00 sf			
D	SERVICES			
D10	CONVEYING			
D1010	Vertical Conveying Systems			
03-0000.000	CONCRETE			
03-6110.100	Hand Grout Equip			
500	Grout Elevator Sill Angles	3.00 ea	250.00 /ea	750
	Hand Grout Equip		0.004/sf	750
	167,352.00 sf			
	CONCRETE		0.004/sf	750
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	CONCRETE		0.004/sf	750
	167,352.00 sf			
05-0000.000	METALS			
05-5113.100	Stairs & Ladders			
102	Elevator Pit Ladder	1.00 ea	2,800.00 /ea	2,800
	Stairs & Ladders		0.017/sf	2,800
	167,352.00 sf			
05-5820.125	Misc. Steel			
22	Sill Angles	3.00 ea	583.333 /ea	1,750
22	Sump Pit Frame Grate	1.00 ea	950.00 /ea	950
22	Hoist Beam	1.00 ea	1,800.00 /ea	1,800
	Misc. Steel		0.027/sf	4,500
	167,352.00 sf			
	METALS		0.044/sf	7,300
	167,352.00 sf			
09-0000.000	FINISHES			
09-6500.100	Flooring- Resilient			
2	ELEVATOR RUBBER SHEET FLOORING	0.00 LOC		
2	RFL Rubber Sheet Flooring At Elevator	55.00 sf	18.00 /sf	990
2	RFL Rubber Sheet Flooring Minor Preparation At Elevator	55.00 sf	0.75 /sf	41
2	RFL Rubber Sheet Flooring Initial Cleaning Per Manu.Require At Elevator	55.00 sf	0.55 /sf	30
2	RFL Rubber Sheet Flooring Protection Per Manu.Require. At Elevator	55.00 sf	0.75 /sf	41
2	Owner Exta Materials At 5% (Package,Deliver)	0.00 sf		
2	RFL Sheet Flooring In Place Mock-up	0.00 MOC K-UP		
	Flooring- Resilient		0.007/sf	1,103
	167,352.00 sf			
	FINISHES		0.007/sf	1,103
	167,352.00 sf			
14-0000.000	CONVEYING SYSTEMS			
14-2000.100	Elevator Hydraulic			
2	Passenger Elevator(s) Holess Hydraulic, 3500 lbs, 100 ftpm [Canton Elevator, Incorporated:]	3.00 stp	50,000.00 /stp	150,000
	Elevator Hydraulic		0.896/sf	150,000
	167,352.00 sf			

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Amount	
	<i>CONVEYING SYSTEMS</i>		<i>0.896/sf</i>		<i>150,000</i>
	<i>167,352.00 sf</i>				
	<i>D1010 Vertical Conveying Systems</i>		<i>0.951/sf</i>		<i>159,153</i>
	<i>167,352.00 sf</i>				
	D10 CONVEYING		0.951/sf		159,153
	167,352.00 sf				
D20	PLUMBING				
<i>D2010</i>	<i>Plumbing Fixtures</i>				
<i>22-0000.000</i>	<i>PLUMBING</i>				
<i>22-1000.000</i>	<i>Plumbing</i>				
10	Fixtures	0.00	ITEM		
10	P-1 (Water Closets)	91.00	ea	1,100.00 /ea	100,100
10	P-1A (Water Closet ADA)	0.00	ea		
10	P-1B (Small Lavatory)	14.00	ea	980.00 /ea	13,720
10	P-2 (Lavatory)	15.00	ea	1,080.00 /ea	16,200
10	P-2A (Lavatory ADA)	29.00	ea	1,080.00 /ea	31,320
10	P-2B (Small Lavatory)	14.00	ea	980.00 /ea	13,720
10	P-3 (Urinal)	9.00	ea	700.00 /ea	6,300
10	P-3A (Urinal)	3.00	ea	700.00 /ea	2,100
10	P-4 (Classroom Sink)	30.00	ea	1,250.00 /ea	37,500
10	P-4A (Hall Sink)	6.00	ea	1,250.00 /ea	7,500
10	P-4B (Dining Sink)	1.00	ea	1,250.00 /ea	1,250
10	P-5 (Drinking Fountain)	8.00	ea	1,200.00 /ea	9,600
10	P-6 (Janitor Sink)	5.00	ea	750.00 /ea	3,750
10	FD-1	12.00	ea	850.00 /ea	10,200
10	RD-1	32.00	ea	850.00 /ea	27,200
10	Rd-2	16.00	ea	850.00 /ea	13,600
10	RD-3	2.00	ea	850.00 /ea	1,700
10	OD-1	2.00	ea	850.00 /ea	1,700
10	OD-2	16.00	ea	850.00 /ea	13,600
10	OD-3	16.00	ea	850.00 /ea	13,600
10	OD-3	2.00	ea	850.00 /ea	1,700
10	HB	11.00	ea	550.00 /ea	6,050
10	Electronic flush valves (WC's & Lav's)	163.00	ea	450.00 /ea	73,350
10	Equipment	0.00	ea		
10	DWH-1	1.00	ea	28,624.00 /ea	28,624
10	DWH-2	1.00	ea	28,624.00 /ea	28,624
10	XT-1	1.00	ea	480.00 /ea	480
10	XT-2	1.00	ea	480.00 /ea	480
10	RCP-1	1.00	ea	1,600.00 /ea	1,600
10	GI-1	1.00	ea	19,872.00 /ea	19,872
10	SI-2	2.00	ea	960.00 /ea	1,920
10	6" Back Flow Preventer	2.00	ea	4,816.00 /ea	9,632
10	Cold Water Meter	1.00	ea	3,500.00 /ea	3,500
10	Thermostatic Mixing Valve	1.00	ea	1,250.00 /ea	1,250
10	Liquid Petroleum System	0.00	ITEM		
	<i>Plumbing</i>			<i>2.998/sf</i>	<i>501,742</i>
	<i>167,352.00 sf</i>				

Design Development Budget Estimate Uniformat

Item	Description	Takeoff Qty	Unit Cost	Total	Amount
	<i>PLUMBING</i>			2.998/sf	501,742
	167,352.00 sf				
	<i>D2010 Plumbing Fixtures</i>			2.998/sf	501,742
	167,352.00 sf				
D2020	<i>Domestic Water Distribution</i>				
22-0000.000	<i>PLUMBING</i>				
22-1000.000	<i>Plumbing</i>				
10	Domestic Water Distribution (Type L Copper)	0.00	ITEM		
10	Exhaust and Combustion Intake Piping, 6"	50.00	lf	300.00 /lf	15,000
10	Incoming 6" water from 10' outside the building incl. sleeves	1.00	ls	5,000.00 /ls	5,000
10	Domestic hot water				
10	2" Hot Water	43.00	lf	47.00 /lf	2,021
10	1" Hot Water	360.00	lf	24.00 /lf	8,640
10	3/4" Hot Water	246.00	lf	20.00 /lf	4,920
10	1/2" Hot Water	814.00	lf	17.00 /lf	13,838
10	Domestic cold water	0.00	ITEM		
10	4" Cold Water	339.00	ea	124.00 /ea	42,036
10	3" Cold Water	35.00	ea	81.00 /ea	2,835
10	2 1/2" Cold Water	240.00	ea	67.00 /ea	16,080
10	2" Cold Water	148.00	lf	47.00 /lf	6,956
10	1 1/4" Cold Water	50.00	lf	30.00 /lf	1,500
10	3/4" Cold Water	575.00	lf	20.00 /lf	11,500
10	1/2" Cold Water	190.00	lf	17.00 /lf	3,230
10	- branch connections to fixtures	3,150.00	lf	22.00 /lf	69,300
10	Insulation on Piping	6,190.00	lf	8.00 /lf	49,520
10	Final connections to fixtures	351.00	ea	200.00 /ea	70,200
10	Roof Drain Insul	1.00	ls	45,600.00 /ls	45,600
	<i>Plumbing</i>			2.20 /sf	368,176
	167,352.00 sf				
	<i>PLUMBING</i>			2.20 /sf	368,176
	167,352.00 sf				
	<i>D2020 Domestic Water Distribution</i>			2.20 /sf	368,176
	167,352.00 sf				
D2030	<i>Sanitary Waste</i>				
22-0000.000	<i>PLUMBING</i>				
22-1000.000	<i>Plumbing</i>				
10	Sanitary Waste & Vent (Hubless Cast Iron)	0.00	ITEM		
10	5" Waste	186.00	lf	90.00 /lf	16,740
10	4" Waste	24.00	lf	83.00 /lf	1,992
10	Above Slab*****	0.00	ITEM		
10	4" Waste	54.00	lf	70.02 /lf	3,781
10	3" Waste	10.00	lf	58.56 /lf	586
10	2 1/2" Waste	250.00	lf	49.66 /lf	12,415
10	2" Waste	1,285.00	lf	34.41 /lf	44,217

Design Development Budget Estimate Uniformat

Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
22-1000.000	<i>Plumbing</i>				
10	1 1/2" Waste	96.00	lf	26.87 /lf	2,580
10	- branch distribution piping & drop connection to fixtures	4,620.00	lf	33.00 /lf	152,460
10	VTR; Vent through roof - 4"	4.00	lf	750.00 /lf	3,000
10	Final connections to fixtures	351.00	ea	200.00 /ea	70,200
10	Acid Waste & Vent (Poly-pro piping) NA	0.00	NA		
10	Precast Grease Tank - Move From Site	1.00	ls	7,500.00 /ls	7,500
	<i>Plumbing</i>			<u>1.885/sf</u>	<u>315,470</u>
	167,352.00 sf				
	<i>PLUMBING</i>			1.885/sf	315,470
	167,352.00 sf				
	D2030 Sanitary Waste			1.885/sf	315,470
	167,352.00 sf				
D2040	<i>Rain Water Drainage</i>				
22-0000.000	<i>PLUMBING</i>				
22-1000.000	<i>Plumbing</i>				
10	Elevator sump pump - allow	1.00	ea	3,500.00 /ea	3,500
10	Unnderslab (trench/backfill excluded)	0.00	ITEM		
10	12" Storm	264.00	lf	150.00 /lf	39,600
10	10" Storm	216.00	lf	130.00 /lf	28,080
10	8" Storm	281.00	lf	120.00 /lf	33,720
10	6" Storm	80.00	lf	107.00 /lf	8,560
10	5" Storm	226.00	lf	90.00 /lf	20,340
10	4" Storm	1,267.00	lf	83.00 /lf	105,161
10	Gas Sel Panel	1.00	ls	2,500.00 /ls	2,500
	<i>Plumbing</i>			<u>1.443/sf</u>	<u>241,461</u>
	167,352.00 sf				
	<i>PLUMBING</i>			1.443/sf	241,461
	167,352.00 sf				
	D2040 Rain Water Drainage			1.443/sf	241,461
	167,352.00 sf				
D2090	<i>Other Plumbing Systems</i>				
22-0000.000	<i>PLUMBING</i>				
22-1000.000	<i>Plumbing</i>				
10	Secondary Regulator	1.00	ea	1,100.00 /ea	1,100
10	Liquid Petroleum Piping, 2"	800.00	ea	137.50 /ea	110,000
10	Final connections to equipment*****	2.00	ea	500.00 /ea	1,000
10	Water Treatment / testing/ Sign off /shutdowns	1.00	ls	12,500.00 /ls	12,500
10	Sub-trade on costs	1.00	ls	223,500.00 /ls	223,500

Design Development Budget Estimate Uniformat

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Plumbing</i>		2.08 /sf	348,100
	167,352.00 sf			
	<i>PLUMBING</i>		2.08 /sf	348,100
	167,352.00 sf			
	<i>D2090 Other Plumbing Systems</i>		2.08 /sf	348,100
	167,352.00 sf			
	D20 PLUMBING		10.606/sf	1,774,949
	167,352.00 sf			
D30	HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)			
<i>D3020</i>	<i>Heat Generating Systems</i>			
<i>23-0000.000</i>	<i>HVAC</i>			
<i>23-0100.110</i>	<i>HVAC</i>			
	2 Main Equipment			
	2 Heating equipment			
	2 B-1,2 & 3, Boilers, 2500 MBH each, Lochinvar (FBN-2501)	7,500.00 mbh	25.00 /mbh	187,500
	2 P-1 & 2, HHW Pump, 500 GPM	1,000.00 ea	25.00 /ea	25,000
	2 Boiler intake flue - allow	60.00 lf	250.00 /lf	15,000
	2 Boiler exhaust breeching - allow	60.00 lf	500.00 /lf	30,000
	2 BP-1, 2, 3, Boiler Pumps @ 240 GPM each	720.00 gpm	25.00 /gpm	18,000
	2 CF-1, Chemical Shot Feeder serving HHW, 5.0 GAL	1.00 ea	10,000.00 /ea	10,000
	2 AS-1, Air Separator, 250 GPM, dosing	1.00 ea	10,000.00 /ea	10,000
	2 ET-1, Expansion Tank, 80L Capacity	1.00 ea	4,000.00 /ea	4,000
	<i>HVAC</i>		1.79 /sf	299,500
	167,352.00 sf			
	<i>HVAC</i>		1.79 /sf	299,500
	167,352.00 sf			
	<i>D3020 Heat Generating Systems</i>		1.79 /sf	299,500
	167,352.00 sf			
<i>D3030</i>	<i>Cooling Generating Systems</i>			
<i>23-0000.000</i>	<i>HVAC</i>			
<i>23-0100.110</i>	<i>HVAC</i>			
	2 Condenser Units	0.00 LOC		
	2 Condenser units for VRF units - allow	250.00 ton	500.00 /ton	125,000
	2 VRFC-1, VRF Outdoor Units, 96 MBH	8.00 ton	600.00 /ton	4,800
	2 Condenser units for DX cooling	10.00 ea	1,500.00 /ea	15,000
	2			

Design Development Budget Estimate Uniformat

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	HVAC		0.865/sf	144,800
	167,352.00 sf			
	HVAC		0.865/sf	144,800
	167,352.00 sf			
	D3030 Cooling Generating Systems		0.865/sf	144,800
	167,352.00 sf			
D3040	Distribution Systems			
23-0000.000	HVAC			
23-0100.110	HVAC			
2	Air distribution			
2	RTU - 1	10,000.00	8.65 /cfm	86,500
2	RTU - 2	16,000.00	8.65 /cfm	138,400
2	RTU - 3	5,000.00	8.65 /cfm	43,250
2	RTU - 4, 5, 7 @ 9000 CFM each	27,000.00	8.65 /cfm	233,550
2	RTU - 6	3,500.00	8.65 /cfm	30,275
2	RTU - 8	6,000.00	8.65 /cfm	51,900
2	RTU - 9	7,000.00	8.65 /cfm	60,550
2	HV-1	5,000.00	8.65 /cfm	43,250
2	MAU-1	4,500.00	6.80 /cfm	30,600
2	Sound Attenuators	21.00	5,500.00 /ea	115,500
2	Extract fans	0.00	ITEM	
2	Toilet/Housekeeping Exhaust fans - allow	4,000.00	3.00 /cfm	12,000
2	Dedicated kitchen exhaust fan allowance	1.00	7,500.00 /ls	7,500
2	Life safety - smoke extract - Excluded, assume not required	0.00	NA	
2	Spec exhaust fans - Excluded, assume not required	0.00	NA	
	HVAC		5.099/sf	853,275
	167,352.00 sf			
	HVAC		5.099/sf	853,275
	167,352.00 sf			
	D3040 Distribution Systems		5.099/sf	853,275
	167,352.00 sf			
D3090	Other HVAC Systems And Equipment			
23-0000.000	HVAC			
23-0100.110	HVAC			
2	Energy Performance			
2	Variable Frequency Drives	0.00	ITEM	
2	RTUs	18.00	8,500.00 /ea	153,000
2	MAU	2.00	8,500.00 /ea	17,000
2	HV	2.00	8,500.00 /ea	17,000
2	EF	2.00	3,500.00 /ea	7,000
2	Pumps	4.00	2,500.00 /ea	10,000

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
23-0100.110	HVAC				
2	Energy Metering Allowance	1.00 ea	15,000.00 /ea		15,000
2	Heating/ cooling terminal units	0.00 ITEM			
2	FCUs (VRF) w/ Filter Box	0.00 NA			
2	Fin tube radiation	0.00 NA			
2	Chilled beams	0.00 NA			
2	Tempered air re-heat coils - allow on VAVs	0.00 NA			
2	Underfloor slab heating	0.00 NA			
2	Radiant panels	0.00 ITEM			
2	Radiant ceiling panels - quantity allowance	3,593.00 lf	125.00 /lf		449,125
2	VRF System Indoor Ceiling-Mounted Evaporator Heating/Cooling Units	0.00 ITEM			
2	VRFe-1 & 2, 290 CFM, 1 ton/1 ton cooling/heating capacity	2.00 ea	2,500.00 /ea		5,000
2	VRFe-3, 459 CFM, 2 ton/2 ton cooling/heating capacity	1.00 ea	3,500.00 /ea		3,500
2	VRFe-4 & 5, 226 CFM, 0.6 ton/0.6 ton cooling/heating capacity	2.00 ea	2,500.00 /ea		5,000
2	VRFe-6,7,9,10, 194 CFM, 0.63 ton/0.63 ton cooling/heating capacity	4.00 ea	2,500.00 /ea		10,000
2	VRFe-8, 11, 12, 17, 194 CFM, 0.63 ton/ 0.63 ton cooling/heating capacity	4.00 ea	2,500.00 /ea		10,000
2	VRFe-13, 14, 15, 16, 194 CFM, 0.8 ton cooling/heating capacity	4.00 ea	2,500.00 /ea		10,000
2	VRFe-18, 600 CFM, 2 ton/2 ton cooling/heating Capacity	1.00 ea	4,000.00 /ea		4,000
2	Branch Circuit Controllers for VRFs above	0.00 ITEM			
2	BC-1 serving VRFe 1-6	1.00 ea	5,000.00 /ea		5,000
2	BC-1 serving VRFe 7-12	1.00 ea	5,000.00 /ea		5,000
2	BC-3 serving VRFe 13-19	1.00 ea	5,000.00 /ea		5,000
2	Split AC unit	0.00 ITEM			
2	DCUe-1, 2, 3, 7 & 8 Ductless Cooling Units, 320 CFM, Mitsubishi (PKA) served by DCUc-1, 2, 3, 7 & 8 Condenser units, Mitsubishi (PUY)	5.00 ea	1,100.00 /ea		5,500
2	DCUe-4 thru 6 Ductless Cooling Units, 320 CFM, Mitsubishi (PKA) served by DCUc-4 thru 6 Condenser units, Mitsubishi (PUZ)	3.00 ea	1,100.00 /ea		3,300
2	DCUe-9 & 10 Ductless Cooling Units, 635 CFM, Mitsubishi (PKA) served by DCUc-9 & 10 Condenser units, Mitsubishi (Puz)	2.00 ea	1,905.00 /ea		3,810
2	Unit Heaters	0.00 ITEM			
2	UH, Unit Heaters	19.00 ea	1,500.00 /ea		28,500
2	EUH-1, Electric unit heaters, 5.0 KW, 17.1 MBH	1.00 ea	1,100.00 /ea		1,100
2	Air terminals	0.00 ITEM			
2	VAV units - allow 1/1200 SF	137.00 ea	800.00 /ea		109,600
2	Constant Volume Units NA	1.00 NA			
2	General exhaust boxes NA	0.00 NA			
2	Pipe, Valves & Connections	0.00 ITEM			
2	Heating piping	0.00 ITEM			
2	- 6"	132.00 lf	80.00 /lf		10,560
2	- Unsized (Mains)	3,844.00 lf	40.00 /lf		153,760
2	- Branch Piping to Terminals	8,129.00 lf	34.00 /lf		276,386
2	- Branch Connection to Terminals	3,950.00 lf	19.00 /lf		75,050
2	Refrigerant Piping - VRF	0.00 ITEM			
2	Refrigerant Piping	7,104.00 lf	26.00 /lf		184,704
2	Secondary valve sets for VRF heat pumps	63.00 ea	600.00 /ea		37,800
2	Dx piping for IT cooling (Allowance)	0.00 ITEM			
2	Dx piping	1,000.00 lf	27.00 /lf		27,000
2	Secondary valve sets; including isolation, commissioning & non return valves	10.00 ea	600.00 /ea		6,000
2	Secondary control valves	10.00 ea	300.00 /ea		3,000
2	Dx condensate	300.00 ea	27.00 /ea		8,100
2	Sheetmetal & Accessories	0.00 ITEM			
2	Equipment and Roof Connections	33,400.00 lbs	11.00 /lbs		367,400

Design Development Budget Estimate Uniformat

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
23-0100.110	HVAC				
2	Risers	12,825.00 lbs	11.00 /lbs		141,075
2	Primary Ductwork	56,900.00 lbs	11.00 /lbs		625,900
2	Secondary Ductwork	14,250.00 lbs	11.00 /lbs		156,750
2	Allowance for Stainless Steel Kitchen exhaust ductwork	2,700.00 lbs	20.00 /lbs		54,000
2	Accessories	0.00 ITEM			
2	Fire dampers for main supply extract risers (Assume)	2.00 ea	750.00 /ea		1,500
2	Volume dampers, control dampers & access Panels	1.00 ls	134,515.00 /ls		134,515
2	Final Connections	0.00 ITEM			
2	Dedicated plenum connections for VAVs, S/R Diffusers	492.00 ea	200.00 /ea		98,400
2	Displacement Diffusers	0.00 ITEM			
2	DD-1	138.00 ea	250.00 /ea		34,500
2	DD-7	39.00 ea	250.00 /ea		9,750
2	E-1, Exhaust Grilles, 8 x 8	63.00 ea	250.00 /ea		15,750
2	Grilles, Unsized	18.00 ea	250.00 /ea		4,500
2	Linear Diffusers, 3.5 LF each	2.00 ea	250.00 /ea		500
2	R-1, Registers	0.00 ITEM			
2	-16 x 16	11.00 ea	250.00 /ea		2,750
2	-14 x 14	61.00 ea	225.00 /ea		13,725
2	-12 x 12	1.00 ea	200.00 /ea		200
2	-8 x 8	21.00 ea	175.00 /ea		3,675
2	L-1, Intake Louver, 36"W x 36"L, Greenheck (EHH-601)	1.00 ea	1,350.00 /ea		1,350
2	Flexible Duct Connections	68.00 ea	350.00 /ea		23,800
2	Insulation	0.00 ITEM			
2	Piping insulation	24,759.00 lf	8.00 /lf		198,072
2	Ductwork insulation	90,291.00 lf	4.50 /lf		406,310
2	Acoustic lining for duct systems.(Allow on secondary)	10,962.00 lf	7.00 /lf		76,734
2	Fire wrap on kitchen exhaust ductwork	2,077.00 lf	15.00 /lf		31,155
2	Testing & commissioning	0.00 ea			
2	Sub-trade temp requirements & GC's	1.00 ls	149,800.00 /ls		149,800
2	Rigging	1.00 ls	333,100.00 /ls		333,100
2	Rigging	0.00 ABO			
2	CAD/ Shop drawings	0.00 VE			
2	Co-ordination	0.00 ABO			
2	Permit	0.00 VE			
2	Main Equipment	0.00 ABO			
	HVAC			27.188/sf	4,550,006

167,352.00 sf

23-0900.100	Controls				
20	Building Management Systems	0.00 ITEM			
20	Primary BMS/ BAS Systems	0.00 ITEM			
20	RTU	135.00 pts	1,100.00 /pts		148,500
20	MAU/HV	30.00 pts	1,100.00 /pts		33,000
20	Extract Fans	18.00 pts	1,100.00 /pts		19,800
20	Condenser units	60.00 pts	1,100.00 /pts		66,000
20	New DDC head-end	1.00 ls	35,000.00 /ls		35,000
20	Secondary BMS	0.00 ITEM			
20	VRF Heat pump units	0.00 ITEM			
20	VAVs	36.00 ea	600.00 /ea		21,600
20	RCPs	548.00 ea	600.00 /ea		328,800

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Amount	
23-0900.100	Controls				
20	Co2 sensing	562.00 ea	600.00 /ea	337,200	
	Controls		5.915/sf	989,900	
	167,352.00 sf				
	HVAC		33.103/sf	5,539,906	
	167,352.00 sf				
	D3090 Other HVAC Systems And Equipment		33.103/sf	5,539,906	
	167,352.00 sf				
	D30 HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)		40.857/sf	6,837,481	
	167,352.00 sf				
D40	FIRE PROTECTION				
D4040	Sprinklers				
21-0000.000	FIRE SUPPRESSION				
21-1300.120	Sprinkler Systems				
2	4" Control Valve	5.00 ea	5,356.00 /ea	26,780	
2	Riser shut off valve	3.00 ea	2,250.00 /ea	6,750	
2	FDC- Fire department connection	2.00 ea	1,500.00 /ea	3,000	
2	FDV - Fire department Valve 2 1/2"	10.00 ea	1,500.00 /ea	15,000	
2	FDVC - Fire department valve cabinet - 18" x18" x 10" (CROKER 1710) - 2 1/2"	10.00 ea	750.00 /ea	7,500	
	Sprinkler Systems		0.353/sf	59,030	
	167,352.00 sf				
	FIRE SUPPRESSION		0.353/sf	59,030	
	167,352.00 sf				
	D4040 Sprinklers		0.353/sf	59,030	
	167,352.00 sf				
D4090	Other Fire Protection Systems				
21-0000.000	FIRE SUPPRESSION				
21-1300.120	Sprinkler Systems				
2	Equipment & Standpipes	0.00 ITEM			
2	Incoming fire main from utility (10' from threshold of the building)	10.00 lf	200.00 /lf	2,000	
2	DACV: Dry alarm check valve	0.00 NIC			
2	Fire pump and jockey pump - allow	0.00 NIC			
2	MACV: Main wet alarm check valve	1.00 ea	2,500.00 /ea	2,500	
2	SCV- Supervised Control valve	1.00 ea	1,858.00 /ea	1,858	
2	6" Back Flow Preventer	1.00 ea	4,816.00 /ea	4,816	

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
21-1300.120	<i>Sprinkler Systems</i>				
2	6" Control Valve	4.00 ea	7,635.00 /ea		30,540
2	Fire standpipe - Risers	0.00 ITEM			
2	- 6" w/ 2 1/2" drain	5.00 ea	3,500.00 /ea		17,500
2	Fire standpipe - Horizontal	0.00 ITEM			
2	6" Pipe	639.00 lf	50.00 /lf		31,950
2	4" Pipe	2,090.00 lf	45.00 /lf		94,050
2	2.5" Pipe	120.00 lf	40.00 /lf		4,800
2	2" Pipe	3,203.00 lf	35.00 /lf		112,105
2	1.5" Pipe	462.00 lf	25.00 /lf		11,550
2	Sprinkler Distribution	0.00 ITEM			
2	Sprinkler heads (assumed quantity)	1,400.00 ea	85.00 /ea		119,000
2	Sprinkler distribution; main and distribution piping, valves and accessories - allow 10LF/head, assume 1-1/2"	12,000.00 lf	24.00 /lf		288,000
2	ANSUL System	0.00 BY OTHER			
2	Hydraulic Calculations, Hydrant Flow Tests, As-builts	1.00 ls	5,000.00 /ls		5,000
2	Sub-trade temp requirements & GC's	1.00 ls	40,000.00 /ls		40,000
2	Rigging - ABOVE	0.00 ABOVE			
2	CAD/ Shop drawings - ABOVE	0.00 ABOVE			
2	Co-ordination - ABOVE	0.00 ABOVE			
2	Permit - ABOVE	1.00 ABOVE			
	<i>Sprinkler Systems</i>		<u>4.575/sf</u>		<u>765,669</u>
	167,352.00 sf				
	<i>FIRE SUPPRESSION</i>		4.575/sf		765,669
	167,352.00 sf				
	<i>D4090 Other Fire Protection Systems</i>		4.575/sf		765,669
	167,352.00 sf				
	D40 FIRE PROTECTION		4.928/sf		824,699
	167,352.00 sf				
D50	ELECTRICAL				
D5010	<i>Electrical Service And Distribution</i>				
26-0000.000	<i>ELECTRICAL</i>				
26-0000.100	<i>Electrical</i>				
10	SERVICE & DISTRIBUTION				
10	Standard Power				
10	Main Switchboard, 480V, 3P 4W, 100KAIC	1.00 ls	60,000.00 /ls		60,000
10	- Main breaker,3000A 65 KAIC w/ ground fault protection	0.00 ABOVE			
10	- Ground bus	0.00 ABOVE			

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
26-0000.100	<i>Electrical</i>				
10	- Surge Protection Device	0.00	ABO VE		
10	- Digital monitoring meter, Power Logic CM4000 Series	0.00	ABO VE		
10	Interior Distribution Transformers, 480V, K-13 rated	0.00	loc		
10	- T-5, 45kVA	16.00	ea	4,950.00 /ea	79,200
10	- T-4, 30kVA	2.00	ea	3,300.00 /ea	6,600
10	Disconnect Switches, 100A	13.00	ea	350.00 /ea	4,550
10	Panelboards, 480V, 3P/4W, 65KAIC w/ surge protection devices	0.00	TITL E		
10	- MHP2C, 225A, 84cts	1.00	ea	4,500.00 /ea	4,500
10	- MHP1A/1B/1B2/1C2/2B/3A/3B, 225A, 42cts	7.00	ea	4,500.00 /ea	31,500
10	- LP1A/1C2/2C/3A, 100A, 42cts	4.00	ea	2,000.00 /ea	8,000
10	- LP1B/1B2/2B/3B, 100A, 30cts	4.00	ea	2,000.00 /ea	8,000
10	Panelboards, 208V, 3P/4W, 10KAIC w/ surge protection devices	0.00	TITL E		
10	- Double tub panelboards, PP1B/1B2/2B, 225A, 126cts	3.00	ea	4,500.00 /ea	13,500
10	- Double tub panelboards, PP1A/3A, MP2B/3B, MP1B/1B2/1C2, KP1C2, 225A, 84cts	8.00	ea	4,500.00 /ea	36,000
10	- Double tub panelboards, PP1C/1C2, MP1A/3A, 225A, 42cts	4.00	ea	4,500.00 /ea	18,000
10	- PP3B, 225A, 126cts	1.00	ea	4,500.00 /ea	4,500
10	- PP2C & MP2C, 125A assume	2.00	ea	2,500.00 /ea	5,000
10	Feeders	0.00	TITL E		
10	3000A; 7 Sets of 4#600Kcmil in (7) 4"C plus (1) 4"C spare w/ pull line	216.00	INCL ABO		
10	600A; To ATS-OS	25.00	lf	150.00 /lf	3,750
10	225A; 4#250kcmil+#4G in 2-1/2"C - Al Conductor	815.00	lf	56.25 /lf	45,844
10	125A; 3#1/0+2#1(N)+1#1(IG)+1#6(EG) in 3"C	425.00	lf	31.25 /lf	13,281
10	100A; 3#2+#8EG in 1-1/4"C	2,043.00	lf	25.00 /lf	51,075
10	100A; 4#1+#6G in 1-1/2"C	825.00	lf	25.00 /lf	20,625
10	100A; To ATS-LS	25.00	lf	25.00 /lf	625
10	100A; 3#6+#10EG in 3/4"C	45.00	lf	25.00 /lf	1,125
10	83.3A; 3#2+#3/0(N)+1#2(IG)+1#8(EG)	25.00	lf	20.83 /lf	521
10	Conduit In above	4,444.00	lf		
10	Mechanical / Equipment power				
10	HVAC				
10	Rooftop units, RTU-1 thru 9, 100A/3P	9.00	ea	7,500.00 /ea	67,500
10	Boilers, B-1/2/3, 20A/1P	3.00	ea	7,500.00 /ea	22,500
10	Branch controller, BC-1/2/3, 20A/1P	3.00	ea	1,500.00 /ea	4,500
10	Air Cooled Chiller, CH-1, 60A/3P	1.00	EXCL UDE D		
10	Glycol feeder, 1/3hp	1.00	ea	1,500.00 /ea	1,500
10	Fans				
10	- 5hp	1.00	ea	3,500.00 /ea	3,500
10	- 1hp	3.00	ea	2,500.00 /ea	7,500
10	- 3/4hp	2.00	ea	1,500.00 /ea	3,000
10	- 1/2hp	5.00	ea	1,500.00 /ea	7,500
10	- 1/3hp	1.00	ea	1,500.00 /ea	1,500
10	Pumps				
10	- Condensate Pump, 20A/1P	1.00	ea	1,500.00 /ea	1,500
10	- Water pump, 7.5hp each	2.00	ea	3,500.00 /ea	7,000
10	- Water pump, 2hp each	2.00	EXCL UDE D		
10	Terminal Units	0.00	TITL E		
10	Split AC Units	10.00	ea	1,500.00 /ea	15,000
10	Unit Heaters, 1/10hp each	22.00	ea	1,500.00 /ea	33,000

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
26-0000.100	<i>Electrical</i>				
10	Electric Unit Heaters	1.00 ea	1,500.00 /ea		1,500
10	VRF heating/cooling units	18.00 ea	1,500.00 /ea		27,000
10	VRF outdoor unit	1.00 ea	1,500.00 /ea		1,500
10	VAV boxes	137.00 ea	350.00 /ea		47,950
10	Plumbing	0.00 TITL			
10	Main H/W heater	2.00 ea	1,500.00 /ea		3,000
10	Recirculation pump, 1/8hp each	2.00 ea	750.00 /ea		1,500
10	Electronic Flush Valves	90.00 ea	280.00 /ea		25,200
10	Miscellaneous	0.00 TITL			
10	Elevator motor connection	2.00 ea	1,500.00 /ea		3,000
10	Allowance for institutional equipment	10.00 ls	575.00 /ls		5,750
10	Emergency Service & Distribution	0.00 TITL			
10	Diesel generator 250kW/312.5kVA, 277Y/480V, 3-Phase, 4-Wire, 0.8pf	250.00 ea	350.00 /ea		87,500
10	Acoustic enclosure allowance	1.00 ea	50,000.00 /ea		50,000
10	Aux/batt ch/ crank	1.00 ea	7,500.00 /ea		7,500
10	ESL Storm switch 3042 series model #SFD4-2005-2005-480-311-S-C w/ interlocked switched & Cam-lock connectors	1.00 ea	15,000.00 /ea		15,000
10	Automatic Transfer Switches	0.00 TITL			
10	- ATS-OS, 600A	1.00 ea	12,000.00 /ea		12,000
10	- ATS-LS, 100A	1.00 ea	3,800.00 /ea		3,800
10	Uninterrupted Power Supply, 16kW, 20kVA	2.00 ea	20,000.00 /ea		40,000
10	Interior Distribution Transformers, 480V, K-13 rated	0.00 TITL			
10	- T-8, 150kVA	3.00 ea	16,500.00 /ea		49,500
10	- T-5, 45kVA	2.00 ea	4,950.00 /ea		9,900
10	Distribution Panelboards, 480V, 3P/4W, 65KAIC w/ surge protection devices	0.00 TITL			
10	- EHP1A/1B/2B/3B, ELP1C2/2A/3B, 225A, 42cts	7.00 ea	4,500.00 /ea		31,500
10	- ELP1B, 225A, 42cts	1.00 ea	4,500.00 /ea		4,500
10	Panelboards, 208V, 3P/4W, 10KAIC w/ surge protection devices	0.00 TITL			
10	- EP1A/1B/1B2/1C/2B/3B, 400A, 168cts	6.00 ea	8,000.00 /ea		48,000
10	- Double tub panelboards, TEP2A/2C, 225A, 84cts	2.00 ea	4,500.00 /ea		9,000
10	- EP1C2, 400A, 84cts	1.00 lf	8,000.00 /lf		8,000
10	Feeders (MI Cable)	0.00 TITL			
10	600A; description unknown	222.00 lf	150.00 /lf		33,300
10	400A; 2 Sets of 3#250kcmil + 2#250kcmil(N) + 1#250kcmil(IG) + 1#2(EG)	135.00 lf	100.00 /lf		13,500
10	225A; 4#3/0+1#6G in 2-1/2"C	25.00 lf	56.25 /lf		1,406
10	225A; 4#3/0+#6G in 2"C	25.00 lf	56.25 /lf		1,406
10	225A; 3#4+1/0 Neutral +1#8G in 2"C	50.00 lf	56.25 /lf		2,813
10	225A; description unknown	956.00 lf	56.25 /lf		53,775
10	150A; 3#350+#4EG in 3"C	75.00 lf	52.50 /lf		3,938
10	150A; description unknown	222.00 lf	37.50 /lf		8,325
10	125A; 3#1/0+2#1(N)+1#1(IG)+1#6(EG) in 3"C	25.00 lf	31.25 /lf		781
10	100A; 4#3/0&6G in 3"C	25.00 lf	25.00 /lf		625
10	100A; 3#2+#8EG in 1-1/4"C	216.00 lf	25.00 /lf		5,400
10	100A; description unknown	72.00 lf	25.00 /lf		1,800
10	4#4+#8G in 1-1/2"C	215.00 lf	25.00 /lf		5,375
10	3#3/0 & #6G in 2"C	25.00 lf	25.00 /lf		625
10	Feeders to Site	-1.00 ls	73,600.00 /ls		(73,600)
10	Convenience Power	0.00 TITL			
10	Double Duplex Receptacle	408.00 ea	550.00 /ea		224,400
10	Duplex Receptacles	796.00 ea	280.00 /ea		222,880

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
26-0000.100	<i>Electrical</i>				
10	Duplex Receptacles for computer use	26.00 ea	280.00 /ea	7,280	
10	Duplex Receptacles, weatherproof	20.00 ea	300.00 /ea	6,000	
10	Duplex Receptacle, 20A, Unistrut grid mtd , Hubbell Model	8.00 ea	300.00 /ea	2,400	
10	Duplex Receptacle, GFI	210.00 ea	300.00 /ea	63,000	
10	Flush Mtd poke thru device w/ (2) duplex receptacles & (3) comm. outlets	4.00 ea	750.00 /ea	3,000	
10	Enclosed circuit breaker	69.00 ea	300.00 /ea	20,700	
10	Three function push button switch	1.00 ea	350.00 /ea	350	
10	Junction Boxes	71.00 ea	250.00 /ea	17,750	
10	Kitchen connections	61.00 ea	500.00 /ea	30,500	
10	Lightning protection/grounding	167,352.00 ea	0.65 /ea	108,779	
	<i>Electrical</i>		11.059/sf	1,850,803	
	167,352.00 sf				
	ELECTRICAL		11.059/sf	1,850,803	
	167,352.00 sf				
	D5010 Electrical Service And Distribution		11.059/sf	1,850,803	
	167,352.00 sf				
D5020	<i>Lighting & Branch Wiring</i>				
26-0000.000	ELECTRICAL				
26-0000.100	<i>Electrical</i>				
10	Lighting, inclusive of conduit, fitting and wiring (allowances included for fixture material prices)	0.00 NOT E			
10	LK24; 2'X4' Fixture With Prismatic Acrylic Lens, Mct Series	24.00 ea	300.00 /ea	7,200	
10	LP4; 4' Linear Direct / Indirect Fixture With Frosted Acrylic Diffuser. 0-10V Dimming Capable, Finelite, S16 Series	84.00 ea	440.00 /ea	36,960	
10	LP8; 8' Linear Direct / Indirect Fixture With Frosted Acrylic Diffuser, 0-10V Dimming Capable, Finelite, S16 Series	422.00 ea	880.00 /ea	371,360	
10	LPD2; 2' Diameter Round Direct/Indirect Pendant Fixture.	41.00 ea	660.00 /ea	27,060	
10	LPD3; 3' Diameter Round Direct/Indirect Pendant Fixture.	29.00 ea	990.00 /ea	28,710	
10	LPD4; 4' Diameter Round Direct/Indirect Pendant Fixture.0-10V Dimming Capable	12.00 ea	1,250.00 /ea	15,000	
10	LPG; Pendant Hi-Bay Fixture. 0-10V Dimming Capable, With Wire Guard, Meteor, WSSeries	29.00 ea	500.00 /ea	14,500	
10	LR10; 10' X 2"W Recessed Fixture. 0-10V Dimming Capable	5.00 ea	1,000.00 /ea	5,000	
10	LR2; 2' X 2"W Recessed Fixture. 0-10V Dimming Capable. Ceiling Type, Finelite, HP-2 Series	16.00 ea	200.00 /ea	3,200	
10	LR24; 2' X 4' Led Flat Panel. 0-10V Dimming Capable, Oracle, Flp1 Series	54.00 ea	300.00 /ea	16,200	
10	LR4; 4' X 2"W Recessed Fixture. 0-10V Dimming Capable, Finelite, Hp-2 Series	158.00 ea	300.00 /ea	47,400	
10	LR4A; 4' X 2"W Recessed Fixture. 0-10V Dimming Capable	27.00 ea	300.00 /ea	8,100	
10	LR6; 6' X 2"W Recessed Fixture. 0-10V Dimming Capable	51.00 ea	400.00 /ea	20,400	
10	LR8; 8' X 2"W Recessed Fixture. 0-10V Dimming	42.00 ea	500.00 /ea	21,000	

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
26-0000.100	<i>Electrical</i>				
10	LR8A; 8' X 2"W Recessed Fixture. 0-10V Dimming	2.00 ea	500.00 /ea		1,000
10	LRD2; 2' Diameter Round Recessed Fixture. 0-10V Dimming Capable	31.00 ea	660.00 /ea		20,460
10	LRD3; 3' Diameter Round Recessed Fixture. 0-10V Dimming Capable	5.00 ea	990.00 /ea		4,950
10	LRD4; 4' Diameter Round Recessed Fixture. 0-10V Dimming Capable	2.00 ea	1,250.00 /ea		2,500
10	LS2; 2' Surface Mounted Fixture With Acrylic Lens. 0-10V Dimming Capable, Elite, 2-Oc1-Led Series	1.00 ea	350.00 /ea		350
10	LS4; 4' Surface Mounted Fixture With Acrylic Lens. 0-10V Dimming Capable, Elite, 4-Oc1-Led Series	43.00 ea	440.00 /ea		18,920
10	LS8; 8' Surface Mounted Fixture With Acrylic Lens. 0-10V Dimming Capable, Elite, 8-Oc1-Led Series	56.00 ea	750.00 /ea		42,000
10	LS8A; 8' Surface Mounted Fixture With Acrylic Lens. 0-10V Dimming Capable, He Williams, Llms Series	19.00 ea	750.00 /ea		14,250
10	LSV4; 4' Wet Location Fixture With Acrylic Lens. 0-10V Dimming Capable, Birchwood, Vanessa Series	5.00 ea	350.00 /ea		1,750
10	LV4; no description given	8.00 ea	350.00 /ea		2,800
10	LWS; Continuous Linear Wall Slot Fixture	495.00 lf	110.00 /lf		54,450
10	PC1; 10" Cylinder Fixture With Semi-Specular Reflector, Cree, Esa Series	12.00 ea	500.00 /ea		6,000
10	RC1; 4" Round Downlight Fixture With Semi-Specular Reflector, Maxilume, Hh4 Series	288.00 ea	300.00 /ea		86,400
10	RC2; 4" Square Downlight Fixture With Semi-Specular Reflector, Maxilume, Hh4 Series	53.00 ea	300.00 /ea		15,900
10	RCW; 4" Round Wall Wash Fixture With Semi-Specular Reflector, Maxilume, Hh4 Series	6.00 ea	300.00 /ea		1,800
10	SL4; Led Wall Pack. 0-10V Dimming Capable	8.00 ea	250.00 /ea		2,000
10	SL5; Led Wall Pack. 0-10V Dimming Capable	8.00 ea	240.00 /ea		1,920
10	Track for light TH1 & TH2	60.00 ea	150.00 /ea		9,000
10	- TH1 light on track	12.00 ea	500.00 /ea		6,000
10	- TH2 light on track	6.00 ea	500.00 /ea		3,000
10	Exit signs	4.00 ea	350.00 /ea		1,400
10	Lighting fixture for elevator, Lightoiler 6770 or Hubbell #NVB15GG w/ 150W	3.00 ea	250.00 /ea		750
10	Labor to install fixtures/ supports IN ABOVE	1,674.00 ea			
10	Wiring and switches for fixtures IN ABOVE	1,674.00 ea			
10	Daylight dimming ballasts for fixtures IN ABOVE	167.00 ea			
10	Battery pack for emergency fixtures NIC	0.00 NIC			
10	Lighting controls	0.00 TITL			
					E
10	Occupancy Sensor	215.00 ea	500.00 /ea		107,500
10	Photozell Sensor	85.00 ea	500.00 /ea		42,500
10	Emergency Stop Switch	1.00 ea	350.00 /ea		350
10	Stage DMX Lighting Control	1.00 ea	25,000.00 /ea		25,000
10	NES; 24 Port Ethernet Switch	1.00 ea	2,500.00 /ea		2,500
10	SSU; Encelium SSU-300 System Support Unit - INC ABOVE	1.00 IN			
					ABO
					VE
10	ECU; Encelium ECS-300 Energy Control Unit - INC ABOVE	1.00 IN			
					ABO
					VE
10	Office Station, RC-5TSB-OS2 - INC ABOVE	21.00 IN			
					ABO
					VE

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
26-0000.100	<i>Electrical</i>				
10	Teacher Station, RC-6TSB-TS1 - INC ABOVE	21.00	IN ABO VE		
10	Entry Station, RC-2TLB-ES1 - INC ABOVE	21.00	IN ABO VE		
10	Room Controller, RC3DE & RC3D - INC ABOVE	23.00	IN ABO VE		
	<i>Electrical</i>			6.558/sf	1,097,540
	167,352.00 sf				
	<i>ELECTRICAL</i>			6.558/sf	1,097,540
	167,352.00 sf				
	<i>D5020 Lighting & Branch Wiring</i>			6.558/sf	1,097,540
	167,352.00 sf				
D5031					
27-0000.000	<i>COMMUNCIATIONS</i>				
27-5000.000	<i>Distributed Communications & Monitoring</i>				
100	PA System - allow	167,352.00	ALLOW	1.50 /ALLOW	251,028
	<i>Distributed Communications & Monitoring</i>			1.50 /sf	251,028
	167,352.00 sf				
	<i>COMMUNCIATIONS</i>			1.50 /sf	251,028
	167,352.00 sf				
D5031				1.50 /sf	251,028
	167,352.00 sf				
D5037	<i>Fire Alarm Systems</i>				
28-0000.000	<i>ELECTRONIC SAFETY & SECURITY</i>				
28-4000.000	<i>Life Saftey</i>				
100	Fire Alarm System Complete	167,352.00	sf	2.75 /sf	460,218
100	FACP - Fire Alarm Control Panel - IN ABOVE	1.00	IN ABO VE		
100	FATC - Fire Alarm Terminal Cabinet - IN ABOVE	2.00	IN ABO VE		
100	ANN - Generator Remote Annunciator - IN ABOVE	2.00	IN ABO VE		
100	Flush mounted Sigcom Wireless 16 Zone Master box - IN ABOVE	1.00	IN ABO VE		

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
28-4000.000	<i>Life Saftey</i>			
100	Elevator Recall Control Module - IN ABOVE	7.00	IN ABO VE	
100	Monitor Module - IN ABOVE	32.00	IN ABO VE	
100	Digital Dialer for trouble & supervisory - IN ABOVE	1.00	IN ABO VE	
100	Carbon Monoxide Detector - IN ABOVE	11.00	IN ABO VE	
100	Drill Key Switch	1.00	IN ABO VE	
100	Fire Alarm Graphic Map	115.00	IN ABO VE	
100	Photoelectric smoke detector	9.00	IN ABO VE	
100	Smoke Detector for elevator	3.00	IN ABO VE	
100	Heat Detector for Elevator	1.00	IN ABO VE	
100	Horn/Visual ADA compliant Signal	66.00	IN ABO VE	
100	Horn/Visual ADA compliant Signal, WG	38.00	IN ABO VE	
100	Isolation Module	2.00	IN ABO VE	
100	Knox box	1.00	IN ABO VE	
100	Manual Pull Station	27.00	IN ABO VE	
100	Pressure Switch	1.00	IN ABO VE	
100	Flow Switch	9.00	IN ABO VE	
100	Red fire alarm beacon, WP	1.00	IN ABO VE	
100	Box Support Assembly	331.00	IN ABO VE	
100	EMT 3/4" w/ fittings	8,275.00	IN ABO VE	
100	FA Cable	24,825.00	IN ABO VE	
100	FA Device Testing	331.00	IN ABO VE	

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Life Saftey</i>		2.75 /sf	460,218
	167,352.00 sf			
	<i>ELECTRONIC SAFETY & SECURITY</i>		2.75 /sf	460,218
	167,352.00 sf			
	<i>D5037 Fire Alarm Systems</i>		2.75 /sf	460,218
	167,352.00 sf			
<i>D5038</i>				
28-0000.000	<i>ELECTRONIC SAFETY & SECURITY</i>			
28-3000.000	<i>Electronic Detection & Alarm</i>			
100	Security systems allowances			
100	Rough in (empty conduit)	167,352.00 sf	0.50 /sf	83,676
100	Access Control System, Manufacturer; Avigilon			
100	Access Control Panel	1.00 ea	5,000.00 /ea	5,000
100	Panel for intrusion detection system	1.00 ea	5,000.00 /ea	5,000
100	Network Video Recorder Panel	1.00 ea	20,000.00 /ea	20,000
100	Access Panel, allow	1.00 ea	1,200.00 /ea	1,200
100	Card Reader, Proximity	29.00 ea	1,200.00 /ea	34,800
100	Door Contact	29.00 ea	1,200.00 /ea	34,800
100	Electrified Hinge	29.00 ea	1,500.00 /ea	43,500
100	PIR sensor	48.00 ea	1,500.00 /ea	72,000
100	Keypad	5.00 ea	1,200.00 /ea	6,000
100	Push Button	1.00 ea	1,200.00 /ea	1,200
100	Fixed Dome Camera	62.00 ea	2,800.00 /ea	173,600
100	Wiring (CAT6) & testing - IN ABOVE			
	<i>Electronic Detection & Alarm</i>		2.873/sf	480,776
	167,352.00 sf			
	<i>ELECTRONIC SAFETY & SECURITY</i>		2.873/sf	480,776
	167,352.00 sf			
	<i>D5038</i>		2.873/sf	480,776
	167,352.00 sf			
<i>D5039</i>				
27-0000.000	<i>COMMUNCIATIONS</i>			
27-2000.000	<i>Data Communications</i>			
100	Tel / Data			
100	Trunk & Network Protector/ Entrance Facility	1.00 BY		
100	Wire Management (Backbone cabling)	0.00 TITL		
100	Wire management; vertical wire manager, cabletray, conduit and sleeves	167,352.00 sf	0.50 /sf	83,676
100	1#1/0-1" C Backbone Cable	381.00 lf	20.00 /lf	7,620

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
27-2000.000	<i>Data Communications</i>				
100	Grounding Busbar (#6AWG @ each IDF & MDF room)	4.00 ea	3,000.00 /ea		12,000
100	Tel/data outlets inc. conduit drop from cable tray				
100	- WAP; Wireless access point	63.00 ea	350.00 /ea		22,050
100	- Data Outlets, 2 ports	300.00 ea	350.00 /ea		105,000
100	- Tel/data outlet, 2ports (1) voice & (1) data outlets	47.00 ea	350.00 /ea		16,450
100	- Telephone data outlet, 2ports	13.00 ea	350.00 /ea		4,550
100	- Wall phone outlet	52.00 ea	350.00 /ea		18,200
100	- C; unknown technology device	114.00 ea	350.00 /ea		39,900
100	Cabling & jacks (Category 6A, UTP, 8 conductor copper cable)				
100	- 2 port	412.00 ea	400.00 /ea		164,800
100	- 1 port	63.00 ea	200.00 /ea		12,600
100	Backbone & Equipment - allow				
100	Server Room & IDF Rooms				
100	Main equipment rack w/ (1) Phone system rack, (1) Telecom rack, (2) Server racks, (1) Video Surveillance rack & (1) Public address rack	1.00 BY OWN ER			
100	- Vertical cable managers - IN ABOBE	3.00 IN ABO VE			
100	- Horizontal cable managers - IN ABOBE	3.00 IN ABO VE			
100	- Patch Panels - IN ABOBE	3.00 IN ABO VE			
100	- Data switches - IN ABOBE	3.00 IN ABO VE			
100	- Power Strip - IN ABOBE	3.00 IN ABO VE			
100	Telecom rack @ each IDF room - IN ABOBE	3.00 BY OWN ER			
100	- Vertical cable managers - IN ABOBE	8.00 IN ABO VE			
100	- Horizontal cable managers - IN ABOBE	8.00 IN ABO VE			
100	- Patch Panels - IN ABOBE	8.00 IN ABO VE			
100	- Data switches - IN ABOBE	8.00 IN ABO VE			
100	- Power Strip - IN ABOBE	8.00 IN ABO VE			
100	CATV System - allow	167,352.00 sf	0.50 /sf		83,676
100	CATV rough-in, empty raceway , Series 11 Quad Shielded Coax cable - IN ABOBE				
100	Allowance for CATV fit-out; equipment, devices, wiring & testing - IN ABOBE				
100	Speech Reinforcement system, Lightspeed Topcat System	66.00 ea	2,000.00 /ea		132,000
100	Digital Antenna System	0.00 ls			
100	Digital Antenna System	167,352.00 sf	0.45 /sf		75,308

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
27-2000.000	<i>Data Communications</i>				
100	Network Controller - IN ABOBE	1.00	IN ABOVE		
100	Remote Device - IN ABOBE	3.00	IN ABOVE		
100	Bi-Directional Amplifiers (BDA) - IN ABOBE	2.00	IN ABOVE		
100	Allowance for antenna - IN ABOBE	2.00	IN ABOVE		
100	Wiring for DAS System - IN ABOBE	1.00	IN ABOVE		
100	Digital signage system - allow	0.00	BY OWNER		
100	Audio visual allowances				
100	Audio junction box	65.00	ea	350.00 /ea	22,750
100	AV	213.00	BY OWNER		
100	Speaker	340.00	BY OWNER		
100	Volume Control Outlet	26.00	BY OWNER		
100	Rough-in allowance only (Approximate locations).	644.00	ea	250.00 /ea	161,000
100	Power for AV	644.00	ea	305.00 /ea	196,420
	<i>Data Communications</i>			6.92 /sf	1,158,000
	167,352.00 sf				
	COMMUNICATIONS			6.92 /sf	1,158,000
	167,352.00 sf				
	D5039			6.92 /sf	1,158,000
	167,352.00 sf				
D5090	<i>Other Electrical System</i>				
26-0000.000	<i>ELECTRICAL</i>				
26-0000.050	<i>Electrical - Other</i>				
20	Testing & bonding	1.00	ls	50,000.00 /ls	50,000
20	Sub-trade temps/ gcs	1.00	ls	200,000.000 /ls	200,000
	<i>Electrical - Other</i>			1.494/sf	250,000
	167,352.00 sf				
	ELECTRICAL			1.494/sf	250,000
	167,352.00 sf				

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	D5090 Other Electrical System		1.494/sf	250,000
	167,352.00 sf			
	D50 ELECTRICAL		33.154/sf	5,548,366
	167,352.00 sf			
	D SERVICES		90.496/sf	15,144,647
	167,352.00 sf			
E	EQUIPMENT AND FURNISHINGS			
E10	EQUIPMENT			
E1010	Commercial Equipment			
11-0000.000	EQUIPMENT			
11-3000.110	Residential Food Equip			
10	Appliance Allowance	1.00	ALLO /ALLO W W	30,000.00 /30,000
10	Loading Dock Equipment	1.00	ALLO /ALLO W W	750.00 /750
10	Kiln	2.00	ALLO /ALLO W W	5,800.00 /11,600
	Residential Food Equip		0.253/sf	42,350
	167,352.00 sf			
11-4000.110	Food Service			
2	Food Service Budget	1.00	Is	486,160.00 /486,160
	Food Service		2.905/sf	486,160
	167,352.00 sf			
	EQUIPMENT		3.158/sf	528,510
	167,352.00 sf			
	E1010 Commercial Equipment		3.158/sf	528,510
	167,352.00 sf			
E1020	Institutional Equipment			
11-0000.000	EQUIPMENT			
11-5200.100	Projection Screens - Projectors			
10	Projection Screens	2.00	ea	6,800.00 /13,600
	Projection Screens - Projectors		0.081/sf	13,600
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Projection Screens - Projectors</i>		<i>0.081/sf</i>	<i>13,600</i>
	<i>167,352.00 sf</i>			
11-6050.000	<i>Stage Curtains</i>			
010	Stage Curtain 32'-6"4 x 13' h	1.00 ea	28,000.00 /ea	28,000
	<i>Stage Curtains</i>		<i>0.167/sf</i>	<i>28,000</i>
	<i>167,352.00 sf</i>			
11-6833.110	<i>Athletic Equipment</i>			
10	Divider Curtain	1,596.00 sf	20.00 /sf	31,920
10	Basketball Backboards and Hoop	6.00 ea	8,200.00 /ea	49,200
10	Floor Mounted Sleeves for Posts	1.00 ls	3,500.00 /ls	3,500
10	Scoreboards 35" x 144" by IPI Bison/Shot Clocks (SC450 by IPI Bison)	1.00 ea	14,000.00 /ea	14,000
10	Gym Wall Padding 24" x 72" (PEP Supp. #4)	820.00 sf	20.00 /sf	16,400
	<i>Athletic Equipment</i>		<i>0.687/sf</i>	<i>115,020</i>
	<i>167,352.00 sf</i>			
	<i>EQUIPMENT</i>		<i>0.936/sf</i>	<i>156,620</i>
	<i>167,352.00 sf</i>			
12-0000.000	<i>FURNISHINGS</i>			
12-6600.100	<i>Stands & Bleachers</i>			
10	Telescoping Bleachers 3 Rows Motorized	300.00 ea	190.00 /ea	57,000
	<i>Stands & Bleachers</i>		<i>0.341/sf</i>	<i>57,000</i>
	<i>167,352.00 sf</i>			
	<i>FURNISHINGS</i>		<i>0.341/sf</i>	<i>57,000</i>
	<i>167,352.00 sf</i>			
	<i>E1020 Institutional Equipment</i>		<i>1.276/sf</i>	<i>213,620</i>
	<i>167,352.00 sf</i>			
	E10 EQUIPMENT		4.435/sf	742,130
	167,352.00 sf			
E20	FURNISHINGS			
E2010	<i>Fixed Furnishings</i>			
12-0000.000	<i>FURNISHINGS</i>			
12-2113.100	<i>Shades - Blinds</i>			
2	Interior Shade	5,500.00 Allow	8.00 /Allow	44,000
2	Exterior Shades	17,000.00 sf	7.00 /sf	119,000
2	Premium Motorized Shades	1,142.00 sf	20.00 /sf	22,840

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
	Shades - Blinds			1.11 /sf	185,840
	167,352.00 sf				
12-3000.130	Casework- Misc				
30	PRE-KINDERGARTEN	0.00	LOC		
30	Pre-K North Wall Base Cabinets W/ PLAM CT	77.00	If	325.00 /lf	25,025
30	Pre-K South Wall Base Cabinets W/ PLAM CT	31.00	If	325.00 /lf	10,075
30	Pre - Kindergarten East Short Cubbie 4' x 2'9"	19.00	ea	500.00 /ea	9,500
30	Pre-K South Wall Upper Cabinetry	21.00	If	250.00 /lf	5,250
30	Pre-K East Wall Upper Cabinetry	26.00	If	250.00 /lf	6,500
30	Pre-K South Wall 7' x 3' Cubbies W/ Upper Cabinetry	18.00	ea	850.00 /ea	15,300
30	Pre-K East Wall Wardrobe Closet	10.00	ea	1,100.00 /ea	11,000
30	Pre-K West Wall Wardrobe Closet	4.00	ea	1,100.00 /ea	4,400
30	Pre-K East Wall Base Cabinetry W/PLAM CT	27.00	If	325.00 /lf	8,775
30	KINDERGARTEN	0.00	LOC		
30	1222 Kindergarten North Wall Base Cabinets W/ PLAM CT	95.00	If	325.00 /lf	30,875
30	1222 Kindergarten South Wall Base Cabinets	12.00	If	325.00 /lf	3,900
30	1222 Kindergarten West Wall Base Cabinets W/ PLAM CT	44.00	If	325.00 /lf	14,300
30	1222 Kindergarten South and West Wall Upper Cabinets	74.00	If	250.00 /lf	18,500
30	1222 Kindergarten West East and South Wall 7'x3' Wadrobe Closet	30.00	ea	1,100.00 /ea	33,000
30	1222 Kindergarten South Short Cubbie 4' x 2'9"	22.00	ea	500.00 /ea	11,000
30	1222 Kindergarten East Wall 7' x 3' Cubbies W/ Upper Cabinets	15.00	ea	850.00 /ea	12,750
30	1229 Kindergarten North Wall Base Cabinets W/ Handicap Sink PLAM CT+Backsplash	22.00	If	325.00 /lf	7,150
30	1229 Kindergarten South Wall Open Base Cabinets W/ PLAM CT	184.00	If	285.00 /lf	52,440
30	1229 Kindergarten West Wall Open Base Cabinets	33.00	If	285.00 /lf	9,405
30	1229 Kindergarten East Wall 7' x 3' Wadrobe Closet	8.00	If	1,100.00 /lf	8,800
30	1229 Kindergarten North Wall Upper Cabinets	21.00	If	250.00 /lf	5,250
30	1229 Kindergarten East Wall Upper Cabinets	30.00	If	250.00 /lf	7,500
30	1229 Kindergarten West Short Cubbie 4' x 2'9"	30.00	ea	325.00 /ea	9,750
30	1229 Kindergarten North Wall 7' x 3' Cubbies W/ Upper Cabinets	20.00	ea	850.00 /ea	17,000
30	1229 Kindergarten East Wall Base Cabinets W/ PLAM CT+ Backsplash	31.00	If	325.00 /lf	10,075
30	MAKER SPACE	0.00	LOC		
30	Maker Space East Wall Base Cabinets	12.00	If	325.00 /lf	3,900
30	Maker Space West and North Walls Base Cabinets W/ PLAM CT+Backsplash	32.00	If	325.00 /lf	10,400
30	Maker Space West Wall Base Cabinets W/ Handicap Sink PLAM CT+Backsplash	3.00	If	325.00 /lf	975
30	Maker Space West and North Walls Upper Cabinetry	35.00	If	250.00 /lf	8,750
30	Maker Space East Wall Cubbies on top of Base Cabinets	12.00	If	250.00 /lf	3,000
30	Maker Space South Wall Wardrobe Closet	8.00	ea	1,100.00 /ea	8,800
30	Maker Space 54"X54" Shop Tables W/ Lockers Underneath	2.00	ea	650.00 /ea	1,300
30	COLLABORATION	0.00	Medi a Ce		
30	Collaboration Countertop	179.00	If	200.00 /lf	35,800
30	Collaboration East Wall 7'x3' Wadrobe Closet	26.00	If	1,100.00 /lf	28,600
30	Collaboration North Wall Base Cabinets	24.00	If	250.00 /lf	6,000

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Item	Description	Takeoff Qty		Total	
				Unit Cost	Amount
12-3000.130	Casework- Misc				
30	Collaboration North Wall Handicap Sink PLAM CT W/Backsplash	9.00	lf	325.00 /lf	2,925
30	Collaboration Wall Shelving	210.00	lf	225.00 /lf	47,250
30	Collaboration South Wall PLAM CT on Post	34.00	lf	300.00 /lf	10,200
30	MEDIA CENTER	0.00	LOC		
30	Media Center North Wall Open Cabinets	11.00	lf	285.00 /lf	3,135
30	Media Center South Wall Open Cabinets Area 1202J	6.00	lf	285.00 /lf	1,710
30	Media Center South Wall Open Cabinets 1202J	8.00	lf	285.00 /lf	2,280
30	Media Center South Wall East/West Open Cabinets 1202	18.00	lf	285.00 /lf	5,130
30	Media Center East Wall Open Cabinets Area S2-5	10.00	lf	285.00 /lf	2,850
30	Media Center East Wall Open Cabinets 1201J	12.00	lf	285.00 /lf	3,420
30	Media Center West Wall Open Cabinets 1202	12.00	lf	285.00 /lf	3,420
30	Media Center COR Open Cabinets	5.00	lf	285.00 /lf	1,425
30	Media Center Room S2-5 Cabinets	12.00	lf	450.00 /lf	5,400
30	Media Center Office Work Room PLAM CT	35.00	lf	225.00 /lf	7,875
30	Media Center North Wall Reception Desk Wings	36.00	lf	1,100.00 /lf	39,600
30	Media Center North Wall Reception Desk Front	12.00	lf	1,100.00 /lf	13,200
30	NURSES OFFICE	0.00	LOC		
30	Nurses Office Base Cabinets	12.00	lf	325.00 /lf	3,900
30	Nurses Office Handicap Sink PLAM CT W/ Backsplash	3.00	lf	325.00 /lf	975
30	Nurses Office Upper Cabinets	15.00	lf	250.00 /lf	3,750
30	Nurses Office Wardrobe Closet	2.00	ea	1,100.00 /ea	2,200
30	CAFE	0.00	LOC		
30	Cafe. North Wall Base Cabinets W/ PLAM CT	7.00	lf	350.00 /lf	2,450
30	Cafe. South Wall Base Cabinets W/ PLAM CT	7.00	lf	350.00 /lf	2,450
30	CLASSROOM	0.00	LOC		
30	Classroom 2227 North Wall Base Cabinets W/PLAM CT	304.00	lf	325.00 /lf	98,800
30	Classroom 2227 South Wall Base Cabinets	80.00	lf	325.00 /lf	26,000
30	Classroom 2227 West Wall Base Cabinets	80.00	lf	325.00 /lf	26,000
30	Classroom 2227 South Wall CT PLAM W/ Backsplash	192.00	lf	225.00 /lf	43,200
30	Classroom 2227 West Wall CT PLAM W/Backsplash	80.00	lf	225.00 /lf	18,000
30	Classroom 2227 South/East Wall Upper Cabinets x 16	160.00	lf	220.00 /lf	35,200
30	Classroom 2227 East Wall Base Cabinets x 16	96.00	lf	325.00 /lf	31,200
30	Classroom 2227 South Wall Wardrobe Closets 7'x3'	4.00	ea	1,100.00 /ea	4,400
30	Classroom 2227 West Wall 7'x3' Wadrobe Closets	48.00	ea	1,100.00 /ea	52,800
30	Classroom 3101 North Wall Base Cabinets W/ PLAM CT *NO ELEVATION*	152.00	lf	325.00 /lf	49,400
30	Classroom 3101 South Wall Base Cabinets Long Short W/ PLAM CT*NO ELEVATION*	120.00	lf	350.00 /lf	42,000
30	Classroom 3101 East Wall Base Cabinet W/ PLAM CT *NO ELEVATION*	40.00	lf	350.00 /lf	14,000
30	Classroom 3101 East Wall Upper Cabinets Cabinet W/ PLAM CT *NO ELEVATION*	72.00	lf	250.00 /lf	18,000
30	Classroom 3101 Wardrobe Closet 7'x3' *NO ELEVATION*	16.00	ea	1,100.00 /ea	17,600
30	Classroom 3226 North Base Cabinets W/PLAM CT	336.00	lf	325.00 /lf	109,200
30	Classroom 3226 South Wall Base Cabinets	224.00	lf	325.00 /lf	72,800
30	Classroom 3226 East/West Wall Base Cabinets	192.00	lf	325.00 /lf	62,400
30	Classroom 3226 West Wall Upper Cabinets x 16	144.00	lf	325.00 /lf	46,800
30	Classroom 3226 South Wall PLAM CT W/ Backsplash	80.00	lf	325.00 /lf	26,000

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Item	Description	Takeoff Qty		Total	
				Unit Cost	Amount
12-3000.130	Casework- Misc				
30	Classroom 3226 East/West Wall PLAM CT+Backsplash	144.00	lf	325.00 /lf	46,800
30	Classroom 3226 South Wall Upper Cabinets	96.00	lf	250.00 /lf	24,000
30	Classroom 3226 West Wall 7' x 3' Wardrobe Closet	32.00	ea	1,100.00 /ea	35,200
30	CORRIDOR	0.00	LOC		
30	Corridor 1223A Handwashing Casework Front	76.00	lf	275.00 /lf	20,900
30	Corridor 1223A Handwashing Casework Wing Left Side	37.00	lf	275.00 /lf	10,175
30	Corridor 1223A Handwashing Casework Wing Right Side	76.00	lf	275.00 /lf	20,900
30	Corridor 3102 Handwashing Casework	18.00	lf	275.00 /lf	4,950
30	MUSIC / ART ROOM	0.00	LOC		
30	Music West Wall Base Cabinets	65.00	lf	325.00 /lf	21,125
30	Music Room North Wall Storage	12.00	ea	800.00 /ea	9,600
30	Art North Wall Base Cabinet PLAM-CT W/Backsplash	6.00	lf	325.00 /lf	1,950
30	Art East Wall Base Cabinets W/ PLAM CT+ Backsplash	18.00	lf	325.00 /lf	5,850
30	Art North Wall Upper Cabinets	6.00	lf	250.00 /lf	1,500
30	Art East Wall Upper Cabinets	18.00	lf	250.00 /lf	4,500
30	Art West Wall base Cabinets W/ PLAM CT	52.00	lf	325.00 /lf	16,900
30	Art Pottery Wheel Room Base Cabinets PLAM CT W/ Backsplash	15.00	lf	325.00 /lf	4,875
30	Art Pottery Wheel Room Upper Cabinetry	15.00	lf	325.00 /lf	4,875
30	PRE KINERGARTEN RISE	0.00	LOC		
30	Pre-K "Rise" North, South, East, and West Wall Base Cabinets	89.00	lf	325.00 /lf	28,925
30	Pre-K Rise North Wall Base Cabinets W/ PLAM CT	16.00	lf	250.00 /lf	4,000
30	Pre-K "Rise"East Wall Upper Cabinets	21.00	lf	250.00 /lf	5,250
30	Pre-K "Rise"East Wall PLAM CT w/ BACKSPASH	46.00	lf	225.00 /lf	10,350
30	Pre-K "Rise"East Wall Cubbies W/ Upper Cabinetry	6.00	ea	850.00 /ea	5,100
30	Pre-K "Rise"East Wall Wardrobe Closet	8.00	ea	1,100.00 /ea	8,800
30	PT/OT	0.00	LOC		
30	PT/OT South Shelving	15.00	lf	325.00 /lf	4,875
30	PT/OT Ease Base Cabinetry	18.00	lf	325.00 /lf	5,850
30	PT/OT West Shelving	16.00	lf	250.00 /lf	4,000
30	PT/OT South Shelving	12.00	lf	250.00 /lf	3,000
30	PT/OT Wardrobe Closet 7'x4'	5.00	ea	1,100.00 /ea	5,500
30	STAFF DINING ***NO ELEVATION	0.00	LOC		
30	Staff Dining 1126 Base Cabinets *NO ELEVATION*	13.00	lf	325.00 /lf	4,225
30	Staff Dining 1126 Upper Cabinets *NO ELEVATION*	13.00	lf	250.00 /lf	3,250
30	COPY/MAIL ROOM *** NO ELEVATION	0.00	LOC		
30	Copy Room/Mail Room Base Cabinets W/ PLAM CT	18.00	lf	325.00 /lf	5,850
30	Copy Room/Mail Room Upper Cabinetry	18.00	lf	250.00 /lf	4,500
30	GENERAL WITING OFFICE ****NO ELEVATION	0.00	OC		
30	General Waiting Office CT	54.00	lf	250.00 /lf	13,500
30	CONNECT ROOM	0.00	LOC		
30	Connect Room 2220 North Wall Base Cabinets	34.00	lf	325.00 /lf	11,050
30	Connect Room 2220 East Wall base Cabinetry PLAM CT W/ Backsplash + Handicap	36.00	lf	350.00 /lf	12,600
30	Connect Room 2220 East Wall Upper Cabinets	36.00	lf	250.00 /lf	9,000
30	Connect Room 2220 East Wall Wardrobe Closet 7'x3'	12.00	ea	1,100.00 /ea	13,200
30	STUDENT SERVICES *** NO ELEVATIONS	0.00	LOC		
30	Student Services Base Cabinets North Wall*NO ELEVATION*	60.00	lf	325.00 /lf	19,500

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Item	Description	Takeoff Qty		Total	
				Unit Cost	Amount
12-3000.130	<i>Casework- Misc</i>				
30	Student Services Base Cabinets South Wall*NO ELEVATION*	26.00	lf	325.00 /lf	8,450
30	Student Services Storage North Base Cabinets	10.00	lf	325.00 /lf	3,250
30	Student Services Storage South Base Cabinets	26.00	lf	325.00 /lf	8,450
30	Student Services Base Cabinets East Wall*NO ELEVATION*	18.00	lf	325.00 /lf	5,850
30	Student Services Upper Cabinets North Wall*NO ELEVATION*	58.00	lf	250.00 /lf	14,500
30	Student Services Storage North Upper Cabinets	10.00	lf	250.00 /lf	2,500
30	Student Services Upper Cabinets South Wall*NO ELEVATION*	26.00	lf	250.00 /lf	6,500
30	Student Services Storage South Upper Cabinets	26.00	lf	250.00 /lf	6,500
30	Student Services Upper Cabinets East Wall*NO ELEVATION*	18.00	lf	250.00 /lf	4,500
30	Student Services Wardrobe Closet 7'x3'	10.00	ea	1,100.00 /ea	11,000
30	RISE ROOM	0.00	LOC		
30	Rise Room 2223 North Wall Base Cabinets	32.00	lf	325.00 /lf	10,400
30	Rise Room 2223 West Wall Base Cabinetry W/ PLAM CT+Backspalsh	42.00	lf	325.00 /lf	13,650
30	Rise Room 2223 West Wall Upper Cabinetry	42.00	lf	250.00 /lf	10,500
30	Rise Room 2223 Wardrobe Closet 7'x3'	6.00	ea	1,100.00 /ea	6,600
30	RESOURCE ROOM ***NO ELEVATIONS	0.00	LOC		
30	Resource Room 2238 Base Cabinets W/ PLAM CT South Wall	11.00	lf	325.00 /lf	3,575
30	Resource Room 2238 Base Cabinets W/ PLAM CT	11.00	lf	325.00 /lf	3,575
30	Resource Room 2238 Upper Cabinets	11.00	lf	325.00 /lf	3,575
30	IT OFFICE NO ELEVATION	0.00	LOC		
30	IT Office Base Cabinets W/ PLAM CT	15.00	lf	325.00 /lf	4,875
30	IT Office Upper Cabinetry	20.00	lf	250.00 /lf	5,000
30	TITLE OFFICE *** NO ELEVATIONS	0.00	LOC		
30	Title Office 3110 Countertop South Wall	49.00	sf	250.00 /sf	12,250
30	Title Office 3110 Wardroe Closet 7'x3'	8.00	ea	1,100.00 /ea	8,800
	<i>Casework- Misc</i>			<u>11.862/sf</u>	<u>1,985,115</u>
	167,352.00 sf				
12-4813.100	<i>Floor Mats</i>				
10	Walk-Off Mats/Grilles at Vestibules	1,009.00	sf	50.00 /sf	50,450
	<i>Floor Mats</i>			<u>0.301/sf</u>	<u>50,450</u>
	167,352.00 sf				
	FURNISHINGS			13.274/sf	2,221,405
	167,352.00 sf				
	<i>E2010 Fixed Furnishings</i>			13.274/sf	2,221,405
	167,352.00 sf				
	E20 FURNISHINGS			13.274/sf	2,221,405
	167,352.00 sf				

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Item	Description	Takeoff Qty	Unit Cost	Total	Amount
E EQUIPMENT AND FURNISHINGS			17.708/sf	2,963,535	
	167,352.00 sf				
F SPECIAL CONSTRUCTION AND DEMOLITION					
F20 SELECTIVE BUILDING DEMOLITION					
F2010	Building Elements Demolition				
02-0000.000	EXISTING CONDITIONS & DEMO				
02-4116.100	Building Demolition				
110	Demolition of Existing Structure(s)	71,871.00 sf	7.75 /sf	557,000	
	Building Demolition		3.328/sf	557,000	
	167,352.00 sf				
	EXISTING CONDITIONS & DEMO		3.328/sf	557,000	
	167,352.00 sf				
	F2010 Building Elements Demolition		3.328/sf	557,000	
	167,352.00 sf				
F2020	Hazardous Components Abatement				
02-0000.000	EXISTING CONDITIONS & DEMO				
02-8200.110	Asbestos Removal				
30	Asbestos Removal - Allowance	1.00 Allow	1,025,442.00 /Allow	1,025,442	
	Asbestos Removal		6.127/sf	1,025,442	
	167,352.00 sf				
	EXISTING CONDITIONS & DEMO		6.127/sf	1,025,442	
	167,352.00 sf				
	F2020 Hazardous Components Abatement		6.127/sf	1,025,442	
	167,352.00 sf				
F20 SELECTIVE BUILDING DEMOLITION			9.456/sf	1,582,442	
	167,352.00 sf				
F SPECIAL CONSTRUCTION AND DEMOLITION			9.456/sf	1,582,442	
	167,352.00 sf				

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	F SPECIAL CONSTRUCTION AND DEMOLITION		9.456/sf	1,582,442
	167,352.00 sf			
G	SITework			
G10	SITE PREPARATION			
G1010	Site Clearing			
31-0000.000	EARTHWORK			
31-1100.100	Site Preparation			
10	Protect Existing Trees & Misc. Requirements	1.00 Ls	15,000.00 /Ls	15,000
10	Temporary Fencing And Entrances Maintenance And Relocation	5,800.00 lf	20.00 /lf	116,000
10	Jersey Barriers	320.00 lf	40.00 /lf	12,800
10	Construction Entrances - Mud Mat(s) And Maintenance	2,500.00 sf	7.00 /sf	17,500
10	LOGISTICS ADJACENT TO EXISTING SCHOOL	0.00 TITL E		
10	Temporary Fencing Signage And Gates - Maintain & Relocate	1,800.00 lf	20.00 /lf	36,000
10	Jersey Barriers	440.00 lf	40.00 /lf	17,600
10	Snow Plowing for Emergency Access, Primary Roads And Trailers	1.00 ALLO W	25,000.00 /ALLO W	25,000
10	PHASE II	0.00 TITL E		
10	Protect Existing Trees & Misc. Requirements Phase II	1.00 Ls	3,900.00 /Ls	3,900
10	Temporary Fencing Signage And Gates - Maintain And Relocate Phase II	2,600.00 lf	22.00 /lf	57,200
	Site Preparation		<u>1.799/sf</u>	<u>301,000</u>
	167,352.00 sf			
	EARTHWORK		1.799/sf	301,000
	167,352.00 sf			
	G1010 Site Clearing		1.799/sf	301,000
	167,352.00 sf			
G1011	Clearing And Grubbing			
31-0000.000	EARTHWORK			
31-1100.100	Site Preparation			
10	Clear, Stump & Grub	522,000.00 sf	0.10 /sf	52,200
10	Clear, Stump & Grub Phase II	216,000.00 sf	0.10 /sf	21,600
	Site Preparation		<u>0.441/sf</u>	<u>73,800</u>
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
31-1400.110	<i>Strip Topsoil</i>			
10	Strip/Stockpile - Topsoil	8,585.00 cy	4.50 /cy	38,633
10	Haul Excess Topsoil - Off-site Disposal	3,590.00 cy	4.00 /cy	14,360
10	PHASE II	0.00 TITL		
			E	
10	Strip/Stockpile - Topsoil Phase II	2,930.00 cy	5.00 /cy	14,650
10	Haul Excess Topsoil - Off-site Disposal Phase II	1,320.00 cy	4.00 /cy	5,280
	<i>Strip Topsoil</i>		<u>0.436/sf</u>	<u>72,923</u>
	167,352.00 sf			
	<i>EARTHWORK</i>		0.877/sf	146,723
	167,352.00 sf			
	<i>G1011 Clearing And Grubbing</i>		0.877/sf	146,723
	167,352.00 sf			
G1012	<i>Tree Removal And Thinning</i>			
31-0000.000	<i>EARTHWORK</i>			
31-1100.100	<i>Site Preparation</i>			
20	Selective Clearing	1.00 allow	4,500.00 /allow	4,500
20	Selective Clearing Phase II	1.00 allow	600.00 /allow	600
	<i>Site Preparation</i>		<u>0.03 /sf</u>	<u>5,100</u>
	167,352.00 sf			
	<i>EARTHWORK</i>		0.03 /sf	5,100
	167,352.00 sf			
	<i>G1012 Tree Removal And Thinning</i>		0.03 /sf	5,100
	167,352.00 sf			
G1022	<i>Demolition of Site Components</i>			
31-0000.000	<i>EARTHWORK</i>			
31-1100.100	<i>Site Preparation</i>			
10	Reclaim Blacktop	1,735.00 sy	2.75 /sy	4,771
10	Strip/Stockpile -reclaim	400.00 cy	5.00 /cy	2,000
10	Remove Blacktop	20.00 cy	50.00 /cy	1,000

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
31-1100.100	<i>Site Preparation</i>				
10	Saw Cut Blacktop	700.00	lf	4.00 /lf	2,800
10	Remove Concrete Walks	50.00	cy	100.00 /cy	5,000
10	Remove And Dispose of 6' Chain Link Fence	2,500.00	lf	5.00 /lf	12,500
10	Remove And Dispose of Metal Guardrail	150.00	lf	6.00 /lf	900
10	Remove And Dispose of Underground Utilities	120.00	lf	5.00 /lf	600
10	Remove And Dispose of 36" RCP Culvert	1,040.00	lf	15.00 /lf	15,600
10	Remove And Dispose of Underground Structures	6.00	ea	500.00 /ea	3,000
10	Remove And Dispose of Signs	6.00	ea	50.00 /ea	300
10	Remove And Dispose of Baseball Backstop	1.00	ls	500.00 /ls	500
10	Remove And Dispose of Wood Benches	4.00	ea	50.00 /ea	200
10	Remove And Dispose of Park Style Benches	4.00	ea	50.00 /ea	200
10	PHASE II	0.00	TITL		
			E		
10	Reclaim Blacktop Phase II	8,924.00	sy	1.35 /sy	12,047
10	Strip/Stockpile - reclaim Phase II	1,993.00	cy	4.00 /cy	7,972
10	Remove Existing And Temp Blacktop Phase II	120.00	cy	65.00 /cy	7,800
10	Saw Cut Blacktop Phase II	654.00	lf	5.00 /lf	3,270
10	Remove Concrete Walks Phase II	100.00	cy	115.00 /cy	11,500
10	Remove And Dispose of 6' Chain Link Fence Phase II	2,500.00	lf	5.00 /lf	12,500
10	Remove And Dispose of Metal Guardrail Phase II	150.00	lf	6.00 /lf	900
10	Remove And Dispose of Underground Utilities Phase II	630.00	lf	22.00 /lf	13,860
10	Remove And Dispose of Underground Structures Phase II	6.00	ea	500.00 /ea	3,000
10	Remove And Dispose of Play Equipment Phase II	1.00	ls	5,000.00 /ls	5,000
10	Remove And Dispose of Bituminous Walks Phase II	40.00	cy	100.00 /cy	4,000
10	Remove/Salvage Vertical Granite Curb Phase II	60.00	lf	15.00 /lf	900
10	Remove/Salvage Signs Phase II	6.00	ea	100.00 /ea	600
10	UTILITY CUT AND CAPS IN CRESCENT STREET	0.00	TITL		
			E		
10	Road Opening Permit In Crescent Street	1.00	ls	500.00 /ls	500
10	Traffic Control In Crescent Street	25.00	Days	750.00 /Days	18,750
10	Sawcut Pavement In Crescent Street	500.00	lf	6.00 /lf	3,000
10	Patch Pavement In Crescent Street	1,600.00	sf	11.00 /sf	17,600
10	Flowable Fill In Crescent Street	175.00	cy	130.00 /cy	22,750
10	Cut And Cap Drain Lines In Crescent Street	3.00	ea	500.00 /ea	1,500
10	Cut & Cap Sewer Lines In Crescent Street	1.00	ea	500.00 /ea	500
10	Cut & Cap Water Lines In Crescent Street	2.00	ea	750.00 /ea	1,500
	<i>Site Preparation</i>			<u>1.188/sf</u>	<u>198,821</u>
	167,352.00 sf				
	EARTHWORK			1.188/sf	198,821
	167,352.00 sf				
33-0000.000	UTILITIES				
33-0550.010	<i>Pipe Trenching</i>				
2	Excavation And Backfill For Disconnected Utilities At Building	2,500.00	cy	20.00 /cy	50,000
	<i>Pipe Trenching</i>			<u>0.299/sf</u>	<u>50,000</u>
	167,352.00 sf				
	UTILITIES			0.299/sf	50,000
	167,352.00 sf				

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	UTILITIES		0.299/sf	50,000
	167,352.00 sf			
	G1022 Demolition of Site Components		1.487/sf	248,821
	167,352.00 sf			
G1030	Site Earthwork			
31-0000.000	EARTHWORK			
31-2316.510	Rock Excavation			
202	Trench Rock Excavation For Utilities	400.00 cy	125.00 /cy	50,000
202	Boulders	1.00 ls	30,000.00 /ls	30,000
	Rock Excavation		0.478/sf	80,000
	167,352.00 sf			
	EARTHWORK		0.478/sf	80,000
	167,352.00 sf			
	G1030 Site Earthwork		0.478/sf	80,000
	167,352.00 sf			
G1034	Site Dewatering			
31-0000.000	EARTHWORK			
31-2319.120	Dewatering			
10	Site General Dewatering	1.00 ls	15,000.00 /ls	15,000
	Dewatering		0.09 /sf	15,000
	167,352.00 sf			
	EARTHWORK		0.09 /sf	15,000
	167,352.00 sf			
	G1034 Site Dewatering		0.09 /sf	15,000
	167,352.00 sf			
G1035	Site Shoring			
31-0000.000	EARTHWORK			
31-4100.100	Shoring			
10	Shoring at Property Line [±11 vf x 180 lf]	1,500.00 sf	110.00 /sf	165,000
	Shoring		0.986/sf	165,000
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total		
			Unit Cost	Amount	
	<i>EARTHWORK</i>		<i>0.986/sf</i>	<i>165,000</i>	
	167,352.00 sf				
	<i>G1035 Site Shoring</i>		<i>0.986/sf</i>	<i>165,000</i>	
	167,352.00 sf				
<i>G1037</i>	<i>Erosion Control</i>				
<i>31-0000.000</i>	<i>EARTHWORK</i>				
<i>31-1100.100</i>	<i>Site Preparation</i>				
10	NOI	1.00	ls	1,500.00 /ls	1,500
10	SWPPP Coordination And Requirements	1.00	ls	5,500.00 /ls	5,500
10	MADEP Sign	1.00	ea	500.00 /ea	500
10	Inlet Protection - Protect Catch Basins	68.00	ea	250.00 /ea	17,000
10	Erosion Silt Fence Control And Maintenance/Relocation	5,600.00	lf	12.00 /lf	67,200
10	Erosion Stabilization And Maintenance	77,000.00	sf	0.25 /sf	19,250
10	Dust Control	1.00	ls	15,000.00 /ls	15,000
10	PHASE II	0.00	TITL		
			E		
10	Inlet Protection - Protect Catch Basins Phase II	30.00	ea	250.00 /ea	7,500
10	Erosion Silt Fence Control And Maintenance/Relocation Phase II	2,600.00	lf	12.00 /lf	31,200
10	Erosion Control Removal Phase I	5,600.00	lf	1.00 /lf	5,600
10	Erosion Control Removal Phase II	2,600.00	lf	1.00 /lf	2,600
10	Dust Control Phase II	1.00	ls	7,500.00 /ls	7,500
	<i>Site Preparation</i>			<i>1.078/sf</i>	<i>180,350</i>
	167,352.00 sf				
	<i>EARTHWORK</i>			<i>1.078/sf</i>	<i>180,350</i>
	167,352.00 sf				
	<i>G1037 Erosion Control</i>			<i>1.078/sf</i>	<i>180,350</i>
	167,352.00 sf				
<i>G1070</i>	<i>Site Earthwork</i>				
<i>31-0000.000</i>	<i>EARTHWORK</i>				
<i>31-2213.110</i>	<i>Site Grading</i>				
110	Bulk Grade Site - Cut	21,850.00	cy	4.00 /cy	87,400
110	Bulk Grade Site - Fill	14,000.00	cy	3.00 /cy	42,000
110	Bulk Grade Site - LSP Testing for Soil Classification	1.00	ls	7,500.00 /ls	7,500
110	Bulk Grade Site - Subgrade Area	522,000.00	sf	0.20 /sf	104,400
110	Rip Rap Stone At FES	45.00	sf	75.00 /sf	3,375
110	Rip Rap Stone	80.00	sf	75.00 /sf	6,000
110	PHASE II	80.00	TITL		
			E		
110	Bulk Grade Site - Cut Phase II	8,650.00	cy	5.00 /cy	43,250
110	Bulk Grade Site - Fill Phase II	1,420.00	cy	4.00 /cy	5,680
110	Bulk Grade Site - LSP Testing for Soil Classification Phase II	1.00	ls	7,500.00 /ls	7,500

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
31-2213.110	<i>Site Grading</i>			
110	Bulk Grade Site - Subgrade Area Phase II	216,000.00 sf	0.20 /sf	43,200
110	Stone Swales And Settling Ponds Phase II	2,500.00 sf	15.00 /sf	37,500
110	Rip Rap Stone Phase II	135.00 sf	100.00 /sf	13,500
	<i>Site Grading</i>		<u>2.398/sf</u>	<u>401,305</u>
	167,352.00 sf			
31-2316.510	<i>Rock Excavation</i>			
200	Bulk Grade Site - Bedrock Removal Allowance	1,000.00 cy	50.00 /cy	50,000
	<i>Rock Excavation</i>		<u>0.299/sf</u>	<u>50,000</u>
	167,352.00 sf			
31-2323.255	<i>Import Fill</i>			
100	Bulk Grade Site - Import/Excess	7,850.00 cy	8.00 /cy	62,800
100	Bulk Grade Site - Import/Excess Phase II	7,140.00 cy	8.00 /cy	57,120
	<i>Import Fill</i>		<u>0.717/sf</u>	<u>119,920</u>
	167,352.00 sf			
	EARTHWORK		3.413/sf	571,225
	167,352.00 sf			
	G1070 Site Earthwork		3.413/sf	571,225
	167,352.00 sf			
	G10 SITE PREPARATION		10.237/sf	1,713,218
	167,352.00 sf			
G20	SITE IMPROVEMENTS			
G2020	<i>Parking Lots</i>			
12-0000.000	<i>FURNISHINGS</i>			
12-9300.110	<i>Site Furnishings</i>			
110	Traffic Signs Phase I	1.00 ls	7,807.00 /ls	7,807
110	Traffic Signs Phase II	1.00 ea	5,000.00 /ea	5,000
	<i>Site Furnishings</i>		<u>0.077/sf</u>	<u>12,807</u>
	167,352.00 sf			
	FURNISHINGS		0.077/sf	12,807
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>FURNISHINGS</i>		0.077/sf	12,807
	167,352.00 sf			
32-0000.000	<i>EXTERIOR IMPROVEMENTS</i>			
32-1116.005	<i>Subbase Materials</i>			
140	Supply & Install Gravel Borrow At 8" Phase I	2,400.00 cy	30.00 /cy	72,000
140	Supply And Install D.G.S.B. At 4" Phase	1,190.00 cy	38.00 /cy	45,220
140	Fine Grade for Asphalt Paving Phase I	77,180.00 sf	0.35 /sf	27,013
140	Supply & Install Gravel Borrow At 8" Phase II	2,375.00 cy	30.00 /cy	71,250
140	Supply And Install D.G.S.B. At 4" Phase II	1,435.00 cy	38.00 /cy	54,530
140	Fine Grade for Asphalt Paving Phase II	93,960.00 sf	0.35 /sf	32,886
	<i>Subbase Materials</i>		1.81 /sf	302,899
	167,352.00 sf			
32-1216.120	<i>Asphalt Paving - SY</i>			
25	Hot Mix Asphalt Paving At *3" Phase I	8,500.00 sy	22.00 /sy	187,000
25	Hot Mix Asphalt Paving At *3" Phase II	10,440.00 sy	22.00 /sy	229,680
35	Cape Cod Berm Phase I	1,522.00 lf	7.00 /lf	10,654
35	Cape Cod Berm Phase II	50.00 lf	10.00 /lf	500
	<i>Asphalt Paving - SY</i>		2.556/sf	427,834
	167,352.00 sf			
32-1640.120	<i>Curbs- Granite</i>			
2	Granite Curb Phase I	3,360.00 lf	46.00 /lf	154,560
2	Granite Curb - Radius Phase I	700.00 lf	52.00 /lf	36,400
2	Granite Curb Phase II	4,030.00 lf	46.00 /lf	185,380
2	Granite Curb - Radius Phase II	870.00 lf	52.00 /lf	45,240
	<i>Curbs- Granite</i>		2.519/sf	421,580
	167,352.00 sf			
32-1723.100	<i>Pavement Marking</i>			
6	Painted Lines - Pavement Markings Phase I	1.00 ls	7,025.00 /ls	7,025
6	Stop Bars Phase I **	1.00 ls	250.00 /ls	250
6	Painted Lines - Pavement Markings Phase II	1.00 ls	5,500.00 /ls	5,500
	<i>Pavement Marking</i>		0.076/sf	12,775
	167,352.00 sf			
	<i>EXTERIOR IMPROVEMENTS</i>		6.962/sf	1,165,088
	167,352.00 sf			
	<i>G2020 Parking Lots</i>		7.038/sf	1,177,895
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
G2030	Pedestrian Paving			
31-0000.000	EARTHWORK			
31-2316.210	Structure Excavation			
105	Thickened Edges At Building And Heavy Pads	450.00 lf	8.00 /lf	3,600
	Structure Excavation		0.022/sf	3,600
	167,352.00 sf			
	EARTHWORK		0.022/sf	3,600
	167,352.00 sf			
32-0000.000	EXTERIOR IMPROVEMENTS			
32-1116.005	Subbase Materials			
120	6" Gravel Base - Sidewalks Phase I	666.67 cy	35.00 /cy	23,333
120	Fine Grade At Sidewalks Phase I	36,000.00 sf	0.50 /sf	18,000
120	6" Gravel Base - Sidewalks Phase II	265.02 cy	35.00 /cy	9,276
120	Fine Grade At Sidewalks Phase II	14,311.00 sf	0.50 /sf	7,156
120	6" Gravel Base - At Unit Pavers Base	25.37 cy	35.00 /cy	888
120	Fine Grade At Unit Pavers Base	1,370.00 sf	0.50 /sf	685
120	D.G.S.B. At 6" Stone Dust Surfacing	15.00 cy	38.00 /cy	570
120	Fine Grade At Stone Dust Surfacing	610.00 sf	0.50 /sf	305
120	6" Gravel Base Crushed Stone 1.5"/	8.35 cy	35.00 /cy	292
	2"Compacted Stone Dust/ Steel Edging - Around Generator Pad			
120	Fine Grade At Crushed Stone 1.5"/ 2"Compacted Stone Dust/ Steel Edging - Around Generator Pad	451.00 sf	0.50 /sf	226
120	6" Gravel Base At Peastone Gravel Strip At Building	37.04 sf	35.00 /sf	1,296
120	Fine Grade At Peastone Gravel Strip At Building	2,000.00 sf	0.50 /sf	1,000
120	6" Gravel Base At Asphalt Paving Walks - Misc Patch	22.22 sf	35.00 /sf	778
120	Fine Grade At Asphalt Paving Walks - Misc Patch	1,200.00 sf	0.50 /sf	600
	Subbase Materials		0.385/sf	64,404
	167,352.00 sf			
32-1216.120	Asphalt Paving - SY			
25	Asphalt Paving Walks - Misc Patch	1,200.00 sf	4.50 /sf	5,400
	Asphalt Paving - SY		0.032/sf	5,400
	167,352.00 sf			
32-1313.100	Site Concrete			
6	4" Concrete Paving Phase I	36,000.00 sf	9.90 /sf	356,400
6	4" Concrete Paving Phase II	14,311.00 sf	9.90 /sf	141,679
8	4" Concrete Base at Pavers 4500PSI	1,370.00 sf	6.50 /sf	8,905
	Site Concrete		3.029/sf	506,984
	167,352.00 sf			
32-1400.100	Site Pavers			
30	Unit Pavers w/ 1" setting bed	1,370.00 sf	26.00 /sf	35,620

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Site Pavers		0.213/sf	35,620
	167,352.00 sf			
32-1713.120	Paving			
110	Tactile Warning Surfacing	50.00 sf	20.00 /sf	1,000
110	Stabilized Stonedust Surfacing	610.00 sf	15.00 /sf	9,150
110	Crushed Stone 1.5"/ 2" Compacted Stone Dust/ Steel Edging - Around Generator Pad	451.00 sf	38.00 /sf	17,138
110	Peastone Gravel Strip At Building	2,000.00 sf	11.25 /sf	22,500
	Paving		0.298/sf	49,788
	167,352.00 sf			
	EXTERIOR IMPROVEMENTS		3.957/sf	662,196
	167,352.00 sf			
	G2030 Pedestrian Paving		3.978/sf	665,796
	167,352.00 sf			
G2040	Site Development			
04-0000.000	MASONRY			
04-4000.010	Masonry			
2	Stone Masonry Seat Wall w/ footing	192.00 sf	500.00 /sf	96,000
2	Brick Masonry Entry Features	115.00 lf	500.00 /lf	57,500
2	6'-6" Brick Pier	7.00 ea	5,500.00 /ea	38,500
	Masonry		1.147/sf	192,000
	167,352.00 sf			
	MASONRY		1.147/sf	192,000
	167,352.00 sf			
05-0000.000	METALS			
05-5820.120	Misc Steel			
10	Bollards	20.00 ALLO W	1,500.00 /ALLO W	30,000
	Misc Steel		0.179/sf	30,000
	167,352.00 sf			
	METALS		0.179/sf	30,000
	167,352.00 sf			
10-7000.000	EXTERIOR SPECIALITIES			
10-7500.100	Flagpoles			
130	Flagpole	1.00 ea	14,000.00 /ea	14,000

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Flagpoles</i>		0.084/sf	14,000
	167,352.00 sf			
	<i>EXTERIOR SPECIALITIES</i>		0.084/sf	14,000
	167,352.00 sf			
12-0000.000	<i>FURNISHINGS</i>			
12-9300.110	<i>Site Furnishings</i>			
120	Backless Aluminum Players Bench (21' each)	84.00 lf	400.00 /lf	33,600
120	Round Garden Stump Seats 18"	20.00 ea	550.00 /ea	11,000
120	Bike Rack w/ Expansion Bolts	20.00 ea	1,800.00 /ea	36,000
120	Cafe Table w/ 4 Attached seats	15.00 ea	2,000.00 /ea	30,000
120	Soccer Goals	12.00 ea	1,800.00 /ea	21,600
120	Bench w/ Stainless Steel Wedge Anchor Bolts	8.00 ea	3,400.00 /ea	27,200
120	Baseball/Softball Base	8.00 ea	250.00 /ea	2,000
120	Trash Receptacle	4.00 ea	1,700.00 /ea	6,800
120	Foul Pole	4.00 ea	2,500.00 /ea	10,000
120	4 Row Salvaged Bleacher	2.00 ls	1,000.00 /ls	2,000
120	Pitchers Rubber	2.00 ea	250.00 /ea	500
120	Basketball Goal	1.00 ea	8,800.00 /ea	8,800
120	KOPMAN # - Playground Equipment	1.00 ea	493,000.00 /ea	493,000
	3PK2/Playground Equipment 3-5 grades			
	<i>Site Furnishings</i>		4.078/sf	682,500
	167,352.00 sf			
	<i>FURNISHINGS</i>		4.078/sf	682,500
	167,352.00 sf			
31-0000.000	<i>EARTHWORK</i>			
31-2316.210	<i>Structure Excavation</i>			
105	Segmental Retaining Wall Excavation And Backfill	1,740.00 cy	15.00 /cy	26,100
105	Prepare for Flush Concrete Curb At Play Areas	240.00 lf	25.00 /lf	6,000
105	Large Shade Structur Footing Excavation and Backfill	60.00 cy	42.00 /cy	2,520
105	Excavate And Backfill Site Walls & Ramps	200.00 cy	75.00 /cy	15,000
105	Excavate And Backfill Flag Pole	20.00 cy	50.00 /cy	1,000
105	Excavate And Backfill Steel Bollards	32.00 ea	125.00 /ea	4,000
105	Excavate And Backfill Basketball Hoop Structures	2.00 ea	400.00 /ea	800
105	Excavate And Backfill Play Swings	8.00 ea	150.00 /ea	1,200
105	Excavate And Backfill Bicycle Parking	16.00 ea	150.00 /ea	2,400
105	Excavate And Backfill Misc. Site Improvements	10.00 cy	600.00 /cy	6,000
105	Prepare Site Landscape Stairs Trench Excavate for Cheek Walls	40.00 cy	20.00 /cy	800
105	Prepare Site Landscape Stairs Stone Setting Bed	10.00 cy	50.00 /cy	500
105	Prepare Site Landscape Stairs Ordinary Backfill	40.00 cy	20.00 /cy	800
105	Prepare Site Landscape Stairs Gravel Borrow under Stairs	20.00 cy	30.00 /cy	600
105	Prepare Site Landscape Stairs Fine Grade for Stairs	100.00 sf	1.00 /sf	100
	<i>Structure Excavation</i>		0.405/sf	67,820
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
31-2323.255	<i>Import Fill</i>			
100	Segmental Retaining Wall Imported Granular Backfill	1,000.00 cy	16.00 /cy	16,000
	<i>Import Fill</i>		0.096/sf	16,000
	167,352.00 sf			
	<i>EARTHWORK</i>		0.501/sf	83,820
	167,352.00 sf			
32-0000.000	<i>EXTERIOR IMPROVEMENTS</i>			
32-0523.130	<i>Exterior Concrete</i>			
110	Concrete - Set For Bollards Supplied by Others	24.00 ea	500.00 /ea	12,000
110	Concrete - Footings - Walls	32.00 cy	720.00 /cy	23,040
	<i>Exterior Concrete</i>		0.209/sf	35,040
	167,352.00 sf			
32-1116.005	<i>Subbase Materials</i>			
120	6" Aggregate Base - Rubber Safety Surfacing	262.80 cy	42.00 /cy	11,038
120	Fine Grade At Rubber Safety Surfacing	14,191.00 sf	0.50 /sf	7,096
120	Segmental Retaining Wall Footing Stone Bedding	100.00 cy	35.00 /cy	3,500
120	4" Compacted Borrow Base - 8/L4.10 Bituminous Court Surfacing	86.56 cy	35.00 /cy	3,030
120	Fine Grade Compacted Borrow Base - 8/L4.10 Bituminous Court Surfacing	5,843.00 sf	0.50 /sf	2,922
120	Supply And Install Gravel Borrow At Basket Ball And Play Areas. 8"	100.00 cy	35.00 /cy	3,500
120	Supply And Install Dense Graded Base At The Play Areas 6"	230.00 cy	50.00 /cy	11,500
120	Fine Grade Areas	15,740.00 sf	0.50 /sf	7,870
120	Baseball And Softball Fields Gravel Borrow At 6"	400.00 cy	24.75 /cy	9,900
120	Supply And Install Infield At 4"	270.00 cy	100.00 /cy	27,000
120	Fine Grade Areas Baseball And Softball	16,550.00 sf	0.50 /sf	8,275
	<i>Subbase Materials</i>		0.571/sf	95,629
	167,352.00 sf			
32-1216.120	<i>Asphalt Paving - SY</i>			
25	Painted Play Surface - Bituminous 4"	5,843.00 sf	5.25 /sf	30,676
	<i>Asphalt Paving - SY</i>		0.183/sf	30,676
	167,352.00 sf			
32-1613.110	<i>Curbs- Concrete</i>			
10	Flush Concrete Curb at Safety Play Surface	269.00 lf	30.00 /lf	8,070
	<i>Curbs- Concrete</i>		0.048/sf	8,070
	167,352.00 sf			
32-1823.110	<i>Athletic Surfaces</i>			
20	Rubber Safety Surfacing	13,800.00 sf	18.50 /sf	255,300
20	Acrylic Color Coating System With Line Paint Min Two Appl. Coats	5,843.00 sf	3.00 /sf	17,529

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Athletic Surfaces</i>		1.63 /sf	272,829
	167,352.00 sf			
32-3113.110	<i>Ornamental Metal Fence</i>			
102	6' HT. Ornamental Fence	582.00 lf	110.00 /lf	64,020
102	4' HT. Ornamental Fence	319.00 lf	90.00 /lf	28,710
102	Double Gate at Ornamental Fence 4'	2.00 ea	5,400.00 /ea	10,800
102	Single Gate at Ornamental Fence 4'	1.00 ea	2,850.00 /ea	2,850
102	Single Gate at Ornamental Fence 6'	1.00 ea	3,250.00 /ea	3,250
	<i>Ornamental Metal Fence</i>		0.655/sf	109,630
	167,352.00 sf			
32-3113.200	<i>Fence Rails</i>			
4	4' HT. Vinyl-Clad Chain Link Fence	4,396.00 lf	55.00 /lf	241,780
4	6' HT. Vinyl-Clad Chain Link Fence	645.00 lf	65.00 /lf	41,925
4	6' Wood Fence 'A'	626.00 lf	70.00 /lf	43,820
4	6' Wood Fence 'B'	113.00 lf	125.00 /lf	14,125
4	Wood and Wire Garden Fence	162.00 lf	60.00 /lf	9,720
4	Single Gate at Vinyl-Clad Chain Link Fence 4'	13.00 ea	950.00 /ea	12,350
4	Double Gate at Vinyl-Clad Chain Link Fence 4'	2.00 ea	1,800.00 /ea	3,600
4	20' HT. Vinyl-Clad Chain Link Backstop (Adjusted Per. Supp. #3)	106.00 lf	220.00 /lf	23,320
4	24' HT. Nylon Netting (PER Supp. #3)	220.00 lf	150.00 /lf	33,000
4	4'HT. Plastic Chain-Link Fence at Baseball Field (PER Supp. #3)	432.00 lf	65.00 /lf	28,080
4	Glav. Steel 8" Dia. Poles 24' Tall w/ 4' x 18" Sonotube (PER Supp. #3)	12.00 ea	550.00 /ea	6,600
4	Retain Fence/Guardrail	190.00 ea	62.00 /ea	11,780
	<i>Fence Rails</i>		2.809/sf	470,100
	167,352.00 sf			
32-3200.110	<i>Site Landscaped Walls</i>			
120	Segmental Retaining/Engineering Calcs & Structural Design - "Redi-Rock" Wall Units	2,000.00 sf	40.00 /sf	80,000
120	Segmental Retaining Wall Caps	350.00 sf	40.00 /sf	14,000
120	Segmental Retaining Wall Root Barrier	2,000.00 ea	2.00 /ea	4,000
120	Core Drill for Fence Posts [Fence by others]	50.00 ea	90.00 /ea	4,500
	<i>Site Landscaped Walls</i>		0.612/sf	102,500
	167,352.00 sf			
	EXTERIOR IMPROVEMENTS		6.719/sf	1,124,474
	167,352.00 sf			
33-0000.000	<i>UTILITIES</i>			
33-0550.010	<i>Pipe Trenching</i>			
2	Segmental Retaining Wall Footing Drain	400.00 lf	18.00 /lf	7,200
2	Segmental Retaining Free Draining Stone Backfill	200.00 cy	30.00 /cy	6,000
2	Segmental Retaining Filter Fabric	3,000.00 sf	0.50 /sf	1,500
2	Segmental Retaining Free Draining Stone Backfill	180.00 cy	38.00 /cy	6,840
	<i>Pipe Trenching</i>		0.129/sf	21,540
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>UTILITIES</i>		<i>0.129/sf</i>	<i>21,540</i>
	167,352.00 sf			
	<i>G2040 Site Development</i>		<i>12.837/sf</i>	<i>2,148,334</i>
	167,352.00 sf			
G2050	<i>Landscaping</i>			
32-0000.000	<i>EXTERIOR IMPROVEMENTS</i>			
32-9113.120	<i>Soil Preparation</i>			
10	Supply/Screen/Test/Ammend/Spread Loam	11,800.00 cy	30.00 /cy	354,000
10	Plant Soil	1,400.00 cy	55.00 /cy	77,000
	<i>Soil Preparation</i>		<i>2.575/sf</i>	<i>431,000</i>
	167,352.00 sf			
32-9219.110	<i>Lawns & Grasses</i>			
5	Lawn Restoration	1.00 ls	15,000.00 /ls	15,000
5	Wetland Seed Mix	32,711.00 sf	0.30 /sf	9,813
5	Skinned Infield 4"(Adjusted PER. Supp. #3)	9,425.00 sf	1.00 /sf	9,425
5	Upland Seed Mix	342,604.00 sf	0.30 /sf	102,781
5	Grass Infield at Softball Field (PER Supp. #3)	9,021.00 sf	0.40 /sf	3,608
	<i>Lawns & Grasses</i>		<i>0.84 /sf</i>	<i>140,628</i>
	167,352.00 sf			
32-9313.110	<i>Groundcover Plants</i>			
110	AB Compact Bluestar (Perennials, Groundcover, Vines)	68.00 ea	25.00 /ea	1,700
110	DP Hay-Scented Fern (Perennials, Groundcover, Vines)	18.00 ea	25.00 /ea	450
110	LS Native Trumpet Honeyuckle (Perennials, Groundcover, Vines)	4.00 ea	45.00 /ea	180
	<i>Groundcover Plants</i>		<i>0.014/sf</i>	<i>2,330</i>
	167,352.00 sf			
32-9343.110	<i>Trees</i>			
120	JV Eastern Red Cedar (Evergreen Trees)	30.00 ea	1,200.00 /ea	36,000
120	PG White Spruce (Evergreen Trees)	71.00 ea	1,700.00 /ea	120,700
120	TG Green Giant (Evergreen Trees)	13.00 ea	1,700.00 /ea	22,100
120	AR Red Maple (Deciduous Trees)	47.00 ea	1,200.00 /ea	56,400
120	GB Maidenhair Tree (Deciduous Trees)	3.00 ea	1,100.00 /ea	3,300
120	GT Thornless Honeylocust (Deciduous Trees)	70.00 ea	1,200.00 /ea	84,000
130	AL Allegheny Serviceberry (Ornamental Trees)	8.00 ea	1,200.00 /ea	9,600
130	AP Upright Green (Ornamental Trees)	2.00 ea	1,000.00 /ea	2,000
130	HM Seven Son Flower (Ornamental Trees)	1.00 ea	1,150.00 /ea	1,150
130	HX Witch Hazel (Ornamental Trees)	1.00 ea	1,200.00 /ea	1,200
130	MD Donald Crabapple (Ornamental Trees)	10.00 ea	1,700.00 /ea	17,000
130	MS Sugar Tyme Grabapple (Ornamental Trees)	1.00 ea	1,100.00 /ea	1,100
	<i>Trees</i>		<i>2.119/sf</i>	<i>354,550</i>
	167,352.00 sf			

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Item	Description	Takeoff Qty	Unit Cost	Total	Amount
	<i>EXTERIOR IMPROVEMENTS</i>			5.548/sf	928,508
	167,352.00 sf				
	<i>G2050 Landscaping</i>			5.548/sf	928,508
	167,352.00 sf				
G2080	<i>Landscaping</i>				
32-0000.000	<i>EXTERIOR IMPROVEMENTS</i>				
32-9333.110	<i>Shrubs & Hedges</i>				
110	AX Compact belia (Deciduous Shrubs)	68.00 ea	200.00 /ea		13,600
110	FA Forsythia (Deciduous Shrubs)	50.00 ea	200.00 /ea		10,000
110	IV Dwarf Winterberry (Deciduous Shrubs)	6.00 ea	200.00 /ea		1,200
110	IV Male Winterberry (Deciduous Shrubs)	2.00 ea	200.00 /ea		400
110	LO California Privet (Deciduous Shrubs)	78.00 ea	425.00 /ea		33,150
110	RA Gr-Low Fragrance Sumac (Deciduous Shrubs)	162.00 ea	120.00 /ea		19,440
110	SP Compact Lilac (Deciduous Shrub)	11.00 ea	325.00 /ea		3,575
110	VT Cranberrybush (Deciduous Shrubs)	22.00 ea	325.00 /ea		7,150
110	IG Inkberry (Evergreen Shrubs)	178.00 ea	350.00 /ea		62,300
110	JB Blue Pacific Shore Juniper (Evergreen Shrubs)	402.00 ea	210.00 /ea		84,420
110	JC Green Seargent Junioer	18.00 ea	210.00 /ea		3,780
	<i>Shrubs & Hedges</i>			1.428/sf	239,015
	167,352.00 sf				
	<i>EXTERIOR IMPROVEMENTS</i>			1.428/sf	239,015
	167,352.00 sf				
	<i>G2080 Landscaping</i>			1.688/sf	239,015
	141,600.00 sf				
	G20 SITE IMPROVEMENTS			30.831/sf	5,159,548
	167,352.00 sf				
G30	SITE MECHANICAL UTILITIES				
G3010	<i>Water Supply</i>				
32-0000.000	<i>EXTERIOR IMPROVEMENTS</i>				
32-1216.120	<i>Asphalt Paving - SY</i>				
25	Bituminous Trench Patch	30.00 tons	200.00 /tons		6,000
25	Remove ~ Blacktop	20.00 cy	75.00 /cy		1,500
25	Saw Cut Blacktop	300.00 lf	5.00 /lf		1,500

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Asphalt Paving - SY		0.054/sf	9,000
	167,352.00 sf			
32-1313.100	Site Concrete			
8	Encase Waterline @ Utility Crossing	30.00 cy	350.00 /cy	10,500
	Site Concrete		0.063/sf	10,500
	167,352.00 sf			
	EXTERIOR IMPROVEMENTS		0.117/sf	19,500
	167,352.00 sf			
33-0000.000	UTILITIES			
33-1002.010	Flushing & Test of Water Lines			
10	Water Line Testing & Chlorination	1.00 ls	2,600.00 /ls	2,600
	Flushing & Test of Water Lines		0.016/sf	2,600
	167,352.00 sf			
33-1002.101	DI Push On Pipe			
c 6	DI Pipe Class 52 6"	460.00 lf	75.00 /lf	34,500
c 8	DI Pipe Class 52 8"	2,400.00 lf	85.00 /lf	204,000
	DI Push On Pipe		1.425/sf	238,500
	167,352.00 sf			
33-1002.214	DI MJ Elbow			
b 8	DI Bend 6"	1.00 ea	350.00 /ea	350
c 8	DI Bend 8"	11.00 ea	550.00 /ea	6,050
	DI MJ Elbow		0.038/sf	6,400
	167,352.00 sf			
33-1002.220	DI MJ Tees			
8	8" x 6" DI Water Tee	4.00 ea	750.00 /ea	3,000
	DI MJ Tees		0.018/sf	3,000
	167,352.00 sf			
33-1005.501	Copper Water Pipe			
k 20	2" Copper Pipe	900.00 lf	45.00 /lf	40,500
	Copper Water Pipe		0.242/sf	40,500
	167,352.00 sf			
33-1216.110	Valves - Gate			
4	6" Gate Valve And Box	4.00 ea	1,250.00 /ea	5,000
8	8" Gate Valve And Box	9.00 ea	1,450.00 /ea	13,050
	Valves - Gate		0.108/sf	18,050
	167,352.00 sf			
33-1216.410	Water Service Wet & Dry Taps			

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
33-1216.410	Water Service Wet & Dry Taps				
d 607	6" Exterior Building Connection	1.00 ea	800.00 /ea		800
d 607	8" x 2" D. I. Tapped Tee, Corp. & Curb Stop	5.00 ea	2,800.00 /ea		14,000
d 607	8" Connection to 10" Water Main in Streets	2.00 ea	4,500.00 /ea		9,000
d 607	8" Exterior Building Connection	1.00 ea	1,800.00 /ea		1,800
	Water Service Wet & Dry Taps		0.153/sf		25,600
	167,352.00 sf				
33-1219.620	Fire Hydrants				
10	Fire Hydrants	3.00 ea	6,800.00 /ea		20,400
16	Yard Hydrants w/ Concrete Pad	4.00 ea	3,500.00 /ea		14,000
16	Hose Bib	1.00 ea	2,200.00 /ea		2,200
	Fire Hydrants		0.219/sf		36,600
	167,352.00 sf				
	UTILITIES		2.218/sf		371,250
	167,352.00 sf				
	G3010 Water Supply		2.335/sf		390,750
	167,352.00 sf				
G3020	Sanitary Sewer				
01-0000.000	Project Requirements				
01-1180.410	Traffic Control				
10	Traffic Control	5.00 day	750.00 /day		3,750
	Traffic Control		0.022/sf		3,750
	167,352.00 sf				
	Project Requirements		0.022/sf		3,750
	167,352.00 sf				
32-0000.000	EXTERIOR IMPROVEMENTS				
32-1216.120	Asphalt Paving - SY				
25	Remove And Replacement Blacktop	300.00 sf	10.00 /sf		3,000
25	Sawcut Pavement	60.00 lf	5.00 /lf		300
	Asphalt Paving - SY		0.02 /sf		3,300
	167,352.00 sf				
32-1313.100	Site Concrete				
8	Flowable Fill	20.00 cy	250.00 /cy		5,000
	Site Concrete		0.03 /sf		5,000
	167,352.00 sf				

Design Development Budget Estimate Uniformat

2019_03_18 Reconciled

Item	Description	Takeoff Qty	Total		
			Unit Cost	Amount	
	<i>EXTERIOR IMPROVEMENTS</i>		<i>0.05 /sf</i>	<i>8,300</i>	
	<i>167,352.00 sf</i>				
33-0000.000	<i>UTILITIES</i>				
33-1004.901	<i>SDR 35 Pipe</i>				
8	6" PVC Sewer	143.00	lf	75.00 /lf	10,725
8	6" PVC Fittings	4.00	ea	75.00 /ea	300
8	6" Exterior Building Connections	3.00	ea	500.00 /ea	1,500
8	Manhole Drops 6" dia Pipe	2.00	ea	1,200.00 /ea	2,400
8	6" Inlet -Outlet At Tank	1.00	ls	800.00 /ls	800
8	8" PVC Pipe	1,378.00	ea	85.00 /ea	117,130
8	8" Connections to Existing Structures	1.00	ea	350.00 /ea	350
8	8" Exterior Building Connection	1.00	ea	350.00 /ea	350
8	Testing And Commsioning	1.00	ea	2,200.00 /ea	2,200
	<i>SDR 35 Pipe</i>			<i>0.811/sf</i>	<i>135,755</i>
	<i>167,352.00 sf</i>				
33-3614.110	<i>Precast Structures</i>				
01	5000 Grease Tank	1.00	ea	5,500.00 /ea	5,500
	<i>Precast Structures</i>			<i>0.033/sf</i>	<i>5,500</i>
	<i>167,352.00 sf</i>				
33-3614.120	<i>Structures</i>				
05-20	SMH	10.00	ea	5,800.00 /ea	58,000
	<i>Structures</i>			<i>0.347/sf</i>	<i>58,000</i>
	<i>167,352.00 sf</i>				
	<i>UTILITIES</i>			<i>1.191/sf</i>	<i>199,255</i>
	<i>167,352.00 sf</i>				
	<i>G3020 Sanitary Sewer</i>			<i>1.263/sf</i>	<i>211,305</i>
	<i>167,352.00 sf</i>				
G3030	<i>Storm Sewer</i>				
33-0000.000	<i>UTILITIES</i>				
33-1002.101	<i>DI Push On Pipe</i>				
c 36	36" DIP	340.00	lf	185.00 /lf	62,900
	<i>DI Push On Pipe</i>			<i>0.376/sf</i>	<i>62,900</i>
	<i>167,352.00 sf</i>				
33-3614.220	<i>Structures</i>				
05-06	Drain Man Hole - 96"/72"/60"/48"	45.00	ea	5,800.00 /ea	261,000
05-06	Catch Basin	35.00	ea	4,500.00 /ea	157,500

Design Development Budget Estimate Uniformat

2019_03_18 Reconciled

Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
33-3614.220	<i>Structures</i>				
05-06	WQS	1.00 ea	12,000.00 /ea		12,000
05-06	OCS	2.00 ea	5,500.00 /ea		11,000
05-06	Area Drain	23.00 ea	2,000.00 /ea		46,000
05-06	Trench Drain - 18" Wide Poly	18.00 lf	500.00 /lf		9,000
05-06	Inlet Protection	40.00 ea	250.00 /ea		10,000
05-06	PHASE II	0.00 ea			
05-06	Drain Man Hole - 96"/72"/60"/48" Phase II	23.00 ea	5,800.00 /ea		133,400
05-06	Catch Basin Phase II	35.00 ea	4,500.00 /ea		157,500
05-06	Catch Basin - Double Phase II	1.00 ea	5,800.00 /ea		5,800
05-06	WQS Phase II	2.00 ea	12,000.00 /ea		24,000
05-06	OCS Phase II	1.00 ea	5,500.00 /ea		5,500
05-06	Area Drain Phase II	2.00 ea	2,000.00 /ea		4,000
05-06	Inlet Protection Phase II	20.00 ea	250.00 /ea		5,000
	<i>Structures</i>			5.03 /sf	841,700
	167,352.00 sf				
33-4102.202	<i>HDPE Pipe</i>				
4	36" HDPE Pipe	780.00 lf	135.00 /lf		105,300
4	36" Break into Existing	1.00 ls	1,000.00 /ls		1,000
4	24" HDPE Pipe	380.00 lf	85.00 /lf		32,300
4	18" HDPE Pipe	1,120.00 lf	70.00 /lf		78,400
4	12" HDPE Pipe	3,580.00 lf	60.00 /lf		214,800
4	12" Building Connections	10.00 ea	650.00 /ea		6,500
12	12" HDPE Fittings	53.00 ea	200.00 /ea		10,600
12	18" HDPE Fittings	22.00 ea	500.00 /ea		11,000
12	Panel Drains @ Sport Fields	2,420.00 lf	15.00 /lf		36,300
12	6" CPP Perforated	1,100.00 lf	30.00 /lf		33,000
12	PHASE II	0.00 TITL			
12	24" HDPE Pipe	60.00 lf	85.00 /lf		5,100
12	18" HDPE Pipe	560.00 lf	70.00 /lf		39,200
12	12" HDPE Pipe	1,940.00 lf	60.00 /lf		116,400
12	12" HDPE Fittings	6.00 ea	150.00 /ea		900
12	12" HDPE PerforatedPipe	60.00 lf	64.00 /lf		3,840
12	6" HDPE PerforatedPipe	70.00 lf	45.00 /lf		3,150
12	6" HDPE Fittings	8.00 ea	75.00 /ea		600
12	Panel Drains @ Sport Fields	500.00 lf	15.00 /lf		7,500
12	Sheeting & Shoring	1.00 ls	5,000.00 /ls		5,000
	<i>HDPE Pipe</i>			4.248/sf	710,890
	167,352.00 sf				
33-4103.103	<i>RCP</i>				
g-15	12" RCP FES	1.00 ea	750.00 /ea		750
g-15	18" RCP FES	1.00 ea	1,000.00 /ea		1,000
g-15	24" RCP FES	1.00 ea	1,250.00 /ea		1,250
g-15	PHASE II	0.00 TITL			
g-15	12" RCP FES	6.00 ea	750.00 /ea		4,500
g-15	18" RCP FES	1.00 ea	1,000.00 /ea		1,000
	<i>RCP</i>			0.051/sf	8,500
	167,352.00 sf				
33-4611.130	<i>Underground Stormwater System</i>				
110	Storm Tech SC-740 Chambers - Underground Stormwater System	644.00 ea	450.00 /ea		289,800
110	Storm Tech SC-740 End Plates - Underground Stormwater System	72.00 ea	275.00 /ea		19,800

Design Development Budget Estimate Uniformat

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
33-4611.130	<i>Underground Stormwater System</i>				
110	Underdrain Piping - Underground Stormwater System	600.00 lf	15.00 /lf		9,000
110	Inspection Ports - Underground Stormwater System	40.00 ea	250.00 /ea		10,000
110	Infiltration Sytem	0.00 LOC			
110	Bulk Excavation	6,324.00 cy	12.00 /cy		75,888
110	Stone Bedding	3,330.00 cy	35.00 /cy		116,550
110	Filter Fabric	73,000.00 sf	0.35 /sf		25,550
110	Ordinary Backfill	3,000.00 cy	15.00 /cy		45,000
	<i>Underground Stormwater System</i>		<u>3.535/sf</u>		<u>591,588</u>
	167,352.00 sf				
33-4611.230	<i>Stormwater Bioretention</i>				
110	Bioretention 15,902 sf Materials And Labor	15,902.00 sf	12.00 /sf		190,824
110	Bioretention Phase II - 12,916 sf Materials And Labor	12,916.00 sf	12.00 /sf		154,992
	<i>Stormwater Bioretention</i>		<u>2.066/sf</u>		<u>345,816</u>
	167,352.00 sf				
33-4616.130	<i>Infiltration System</i>				
110	Bulk Excavation Infiltration Sytem	6,324.00 cy	8.00 /cy		50,592
110	Stone Bedding Infiltration Sytem	3,330.00 cy	32.00 /cy		106,560
110	Filter Fabric Infiltration Sytem	73,000.00 sf	0.35 /sf		25,550
110	Ordinary Backfill Infiltration Sytem	3,000.00 cy	15.00 /cy		45,000
	<i>Infiltration System</i>		<u>1.361/sf</u>		<u>227,702</u>
	167,352.00 sf				
	UTILITIES		16.666/sf		2,789,096
	167,352.00 sf				
	G3030 Storm Sewer		16.666/sf		2,789,096
	167,352.00 sf				
	G30 SITE MECHANICAL UTILITIES		20.264/sf		3,391,151
	167,352.00 sf				
G40	SITE ELECTRICAL UTILITIES				
G4010	Site Electrical Utilities				
26-0000.000	ELECTRICAL				
26-0000.100	Electrical				
10	Incoming primary electric power line from private property pole set to pad mounted utility transformer in concrete encased duct bank w/ two conduits, (1)5" Schedule 40 PVC Conduit & (1) 5" spare Schedule 40 PVC Conduit	903.00 lf BY OT			

Design Development Budget Estimate Uniformat

Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
26-0000.100	<i>Electrical</i>				
10	Utility company transformer, pad mounted w/ utility meter	0.00	BY OTH ER		
10	Incoming secondary feeder to MSB from utility transformer in concrete encased ductbank w/ (3) 4" Schedule 40 PVC Conduit & (1) 4" spare Schedule 40 Conduit	216.00	lf	500.00 /lf	108,000
10	Feeders - Generator	1.00	ls	73,600.00 /ls	73,600
10	Site Lights	1.00	ls	207,750.00 /ls	207,750
	<i>Electrical</i>			<u>2.327/sf</u>	<u>389,350</u>
	167,352.00 sf				
	<i>ELECTRICAL</i>			2.327/sf	389,350
	167,352.00 sf				
31-0000.000	<i>EARTHWORK</i>				
31-2213.110	<i>Site Grading</i>				
110	Prep For Transformer Pad	63.00	sf	11.999 /sf	756
110	Prep For Generator Pad	126.00	sf	12.00 /sf	1,512
	<i>Site Grading</i>			<u>0.014/sf</u>	<u>2,268</u>
	167,352.00 sf				
	<i>EARTHWORK</i>			0.014/sf	2,268
	167,352.00 sf				
32-0000.000	<i>EXTERIOR IMPROVEMENTS</i>				
32-1116.005	<i>Subbase Materials</i>				
120	Gravel Base - Transformer Pad	2.00	cy	30.00 /cy	60
120	Gravel Base - Generator Pad	4.00	cy	30.00 /cy	120
	<i>Subbase Materials</i>			<u>0.001/sf</u>	<u>180</u>
	167,352.00 sf				
32-1313.100	<i>Site Concrete</i>				
110	Transformer Pad	63.00	sf	25.00 /sf	1,575
110	Generator Pad	126.00	sf	28.00 /sf	3,528
	<i>Site Concrete</i>			<u>0.03 /sf</u>	<u>5,103</u>
	167,352.00 sf				
	<i>EXTERIOR IMPROVEMENTS</i>			0.032/sf	5,283
	167,352.00 sf				
33-0000.000	<i>UTILITIES</i>				
33-0550.010	<i>Pipe Trenching</i>				

Design Development Budget Estimate Uniformat

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
33-0550.010	<i>Pipe Trenching</i>				
8	Electrical Primary Duckbank Excavation, Backfill And Encasement	915.00 lf	80.00 /lf		73,200
8	Electrical Secondary Duckbank Excavation, Backfill And Encasement	231.00 lf	70.00 /lf		16,170
8	Electrical Generator Duckbank Excavation, Backfill And Encasement	228.00 lf	70.00 /lf		15,960
8	Tele/Cable/Data/Alarm Duckbank Excavation, Backfill And Encasement	910.00 lf	60.00 /lf		54,600
8	Electrical Conduit To Field	466.00 lf	18.00 /lf		8,388
	<i>Pipe Trenching</i>		<u>1.006/sf</u>		<u>168,318</u>
	167,352.00 sf				
	<i>UTILITIES</i>		1.006/sf		168,318
	167,352.00 sf				
	<i>G4010 Site Electrical Utilities</i>		3.377/sf		565,219
	167,352.00 sf				
G4020	<i>Site Lighting</i>				
32-0000.000	<i>EXTERIOR IMPROVEMENTS</i>				
32-0523.150	<i>Exterior Concrete - Precast for Site</i>				
140	Pedestrian Pole Base - Precast Footing	12.00 ea	850.00 /ea		10,200
140	Parking/Drive Pole Base - Precast Footing	9.00 ea	850.00 /ea		7,650
140	Parking/Drive Pole Base - Precast Footing Phase II	25.00 ea	850.00 /ea		21,250
	<i>Exterior Concrete - Precast for Site</i>		<u>0.234/sf</u>		<u>39,100</u>
	167,352.00 sf				
	<i>EXTERIOR IMPROVEMENTS</i>		0.234/sf		39,100
	167,352.00 sf				
33-0000.000	<i>UTILITIES</i>				
33-0550.010	<i>Pipe Trenching</i>				
8	Site Lighting Excavation And Backfill	2,119.00 lf	18.00 /lf		38,142
8	Site Lighting Excavation And Backfill Phase II	2,825.00 lf	18.00 /lf		50,850
	<i>Pipe Trenching</i>		<u>0.532/sf</u>		<u>88,992</u>
	167,352.00 sf				
	<i>UTILITIES</i>		0.532/sf		88,992
	167,352.00 sf				
	<i>G4020 Site Lighting</i>		0.765/sf		128,092
	167,352.00 sf				

Design Development Budget Estimate Uniformat

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	G4020 Site Lighting		0.765/sf	128,092
	167,352.00 sf			
G4090	Other Site Electrical Utilities			
33-0000.000	UTILITIES			
33-0550.010	Pipe Trenching			
8	Gas Line E&B Only	1,020.00 lf	15.00 /lf	15,300
	Pipe Trenching		0.091/sf	15,300
	167,352.00 sf			
	UTILITIES		0.091/sf	15,300
	167,352.00 sf			
	G4090 Other Site Electrical Utilities		0.091/sf	15,300
	167,352.00 sf			
	G40 SITE ELECTRICAL UTILITIES		4.234/sf	708,611
	167,352.00 sf			
	G SITEWORK		65.566/sf	10,972,528
	167,352.00 sf			
Z	GENERAL			
Z10	GENERAL REQUIREMENTS			
Z1050	Temporary Facilities and Controls			
01-5000.000	TEMPORARY FACILITIES AND CONTROLS			
01-5000.010	Temp Requirements			
200	Temporary Facilities and Controls			
200	Training video	1.00 ls	1,200.00 /ls	1,200
200	Field Engineering/Building Layout (Survey and Control)	1.00 ls	7,000.00 /ls	7,000
200	Temporary Toilets	27.00 mos	1,500.00 /mos	40,500
200	Temporary Egress Stairs	1.00 ls	8,000.00 /ls	8,000
200	Pest Control	1.00 ls	1,500.00 /ls	1,500
200	Project Signs / Wayfinding	1.00 ls	12,000.00 /ls	12,000
200	Field First Aid			
200	Safety / Temporary Protection	1.00 ls	276,318.00 /ls	276,318
200	Fire Protection - Extinguishers (4 Re-Charges)	5.00 ls	500.00 /ls	2,500
200	Site Security	1.00 ls	15,000.00 /ls	15,000

Design Development Budget Estimate Uniformat

2019_03_18 Reconciled

Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
01-5000.010	Temp Requirements				
200	Police details	1.00 ls	25,000.00 /ls		25,000
200	Temporary Provisions				
200	Temporary Fire Protection	1.00 ls	30,000.00 /ls		30,000
200	Temporary Light and Power				
200	Temporary Power - Trailers	1.00 ls	25,000.00 /ls		25,000
200	Temporary Water	1.00 ls	15,000.00 /ls		15,000
200	Water Consumption	1.00 ls	5,000.00 /ls		5,000
200	Energy Consumption (fuel)	1.00 ea	102,000.00 /ea		102,000
200	Energy Consumption (power)	1.00 ea	150,000.00 /ea		150,000
200	Trash Chutes	2.00 ea	15,000.00 /ea		30,000
200	Temporary Enclosures	1.00 ls	167,352.00 /ls		167,352
200	Temporary Heat - Equipment/Distribution	6.00 mos	7,500.00 /mos		45,000
200	Temporary Heat - Equipment - Electric Hookup	1.00 ls	25,000.00 /ls		25,000
200	Winter Conditions (SITE)	1.00 winter	55,000.00 /winter		55,000
200	Winter Conditions (CONCRETE)	1.50 winter	55,000.00 /winter		82,500
200	Dumpsters	232.00 pulls	750.00 /pulls		174,000
200	Emergency Generator Fuel	1.00 ls	10,000.00 /ls		10,000
200	Noise Control	1.00 ls	10,000.00 /ls		10,000
200	Pest Control	1.00 ls	2,500.00 /ls		2,500
200	Cleaning Progress / Final				
200	Progress Cleaning	1.00 ls	495,219.65 /ls		495,220
200	Lull	26.00 mos	4,000.00 /mos		104,000
200	Final Cleaning - 1st pass at turn over	167,352.00 sf	0.70 /sf		117,146
200	Engineering & Control				
200	Layout/Staking	1.00 ls	10,000.00 /ls		10,000
200	As-Built Survey	1.00 ls	12,000.00 /ls		12,000
200	Mobilization & Building Demo				
200	Mobilize / Coordination / Survey Existing Conditions	1.00 ea	10,000.00 /ea		10,000
	Temp Requirements			12.344/sf	2,065,736
	167,352.00 sf				
	TEMPORARY FACILITIES AND CONTROLS			12.344/sf	2,065,736
	167,352.00 sf				
	Z1050 Temporary Facilities and Controls			12.344/sf	2,065,736
	167,352.00 sf				
	Z10 GENERAL REQUIREMENTS			12.344/sf	2,065,736
	167,352.00 sf				
	Z GENERAL			12.344/sf	2,065,736
	167,352.00 sf				

THE NEW W. EDWARD BALMER SCHOOL

NORTHBRIDGE, MASSACHUSETTS



SCHOOL BUILDING COMMITTEE MEETING

MARCH 19, 2019



ESTIMATED CONSTRUCTION COST COMPARISON

	SD PHASE (FONTAINE BROS., INC.)	DD PHASE PM&C COST ESTIMATORS	DD PHASE FONTAINE BROS. INC. (CM)
AREA (GSF)	167,352	167,352	167,352
BUILDING	\$47,191,265	\$50,673,892	\$50,767,822
SITE WORK & DEMO	\$10,956,995	\$12,104,861	\$12,554,970
MARK-UPS	\$21,344,403	\$16,073,239	\$16,157,650
TOTAL	\$79,492,663	\$78,851,992	\$79,480,442
Unit Cost (\$/SF)	\$475	\$471	\$475





Thank You!