

Project Minutes

Project: New Stoneham High School
 Prepared by: Mark Stafford
 Re: School Building Committee Meeting
 Location: Central Middle School Media Center and
 Remote Participation
 Distribution: Attendees (MF)

Project No.: 20033
 Meeting Date: 9/12/2022
 Time: 7:00pm
 Meeting No: 55

Attendees:

PRESENT	NAME	AFFILIATION	VOTING MEMBER
✓	Marie Christie	Co-Chair, School Building Committee	Voting Member
	David Bois	Co-Chair, School Building Committee; Community Member with Architecture Experience	Voting Member
✓	Nicole Nial	School Committee Member	Voting Member
✓	Raymie Parker	Select Board Member	Voting Member
✓	Douglas Gove	Community Member with Engineering Experience	Voting Member
✓	Stephen O'Neill	Vice-Chair, Community Member with Engineering Experience	Voting Member
✓	Josephine Thomson	Community Member	Voting Member
✓	Jeanne Craigie	Town Moderator	Voting Member
Remote	Lisa Gallagher	Community Member, School Secretary, Past member of Middle School Building Committee	Voting Member
✓	Sharon Iovanni	Community Member	Voting Member
Remote	Cory Mashburn	Community Member, Finance and Advisory Board	Voting Member
✓	Paul Ryder	Community Member with Construction Experience	Voting Member
✓	David Pignone	Select Board Member, Athletic Director, Member knowledgeable in educational mission and function of facility	Voting Member
✓	Kevin Yianacopolus	Local Official responsible for Building Maintenance	Voting Member
	Dennis Sheehan	Town Administrator	Non-Voting Member
Remote	Leia DiLorenzo-Secor	Town Budget Director	Non-Voting Member
✓	David Ljungberg	Superintendent of Schools, Secretary of School Building Committee	Non-Voting Member
	Bryan Lombardi	Stoneham High School Principal	Non-Voting Member
✓	Brian McNeil	Town Facilities Director	Non-Voting Member
Remote	April Lanni	Town Procurement Officer / MCPPO Certified	Non-Voting Member
	Brooke Trivas	Perkins and Will	
	Patrick Cunningham	Perkins and Will	
✓	Stephen Messinger	Perkins and Will	
✓	Kristy Lyons	Consigli Construction	
✓	Todd McCabe	Consigli Construction	
	Steve Banak	Consigli Construction	
✓	Mark Stafford	SMMA	
✓	Robert Smith	SMMA	
Remote	Joel Seeley	SMMA	

Item #	Action	Discussion
55.1	Record	Call to Order, 7:00 PM, meeting opened.
55.2	Record	This meeting will be held via video conference and in-person and a recording of such will be posted on the Town's website.
55.3	Record	A motion was made by S. Iovanni and seconded by J. Craigie to approve the 8/22/22 School Building Committee meeting minutes. No discussion, motion passed unanimous, two abstentions.
55.4	Record	J. Seeley reviewed the Budget Status Report, dated 8/31/22, attached
55.5	Record	J. Seeley reviewed Warrant No. 31, attached. Committee Discussion: <ol style="list-style-type: none">R. Parker asked for an explanation of the Amendments listed on the Perkins & Will invoice. <i>J. Seeley indicated the listed Amendments are additional services to the Perkins & Will agreement that have been approved by the Committee. The specific service description is listed below each Amendment title.</i> A motion was made by J. Craigie and seconded by D. Gove to approve Warrant No. 31. No discussion, motion passed unanimous.
55.6	Record	J. Seeley reviewed Change Order No. 02, dated 9/9/22, in the amount of \$445,479.68, Change Order Description Form and Change Order, Change Order Contingency, GMP Contingency and Allowance Budget Summary Form, all attached. Committee Discussion: <ol style="list-style-type: none">R. Parker asked if there was sufficient test pits and borings made during the design phase to identify the amount of ledge? <i>T. McCabe indicated yes, but the inconsistencies of the ledge over the entire site have contributed to the change.</i>R. Parker asked can the utilities be relocated to where there is no ledge? <i>T. McCabe indicated no, the utility corridors are set, further the ledge inconsistency makes it difficult to identify where they could be relocated.</i>J. Craigie asked was this ledge at the tennis courts? <i>T. McCabe indicated no, the majority of the ledge was at and around the building footprint.</i>S. O'Neill indicated it appears the ledge has increased 85% above original estimate and asked how was the ledge measured? <i>T. McCabe indicated the estimate included approximately 6,000 c.y. and the increase is to approximately 11,000 c.y. The Site Subcontractor</i>

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		<p><i>performed five days of rock probes, gridded across the site and following the utility corridor, after which 51 additional test pits were done to further confirm the quantity of ledge and determine whether it could be removed mechanically or would blasting be required. The ledge that could be removed mechanically is part of the contract. For the ledge required to be removed by blasting, there is a unit price for removal.</i></p> <p>5. D. Gove stated an additional ledge quantity is high, can investigation be performed now to better determine the ledge quantity for the next bid? <i>T. McCabe indicated yes, he will review strategy with the construction team and provide direction.</i></p> <p>6. S. Iovanni asked will this address all of the ledge in the Bid Package No. 1? <i>T. McCabe indicated yes for the current scope of Bid Package No. 1, however there will be ledge removal required for utilities that are not currently part of Bid Package No. 1. These utilities may be better installed now to avoid a second ledge removal under Bid Package No. 3, Consigli is reviewing and will provide direction.</i></p> <p>A motion was made by R. Parker and seconded by S. Iovanni to approve Change Order No. 02, dated 9/9/22, in the amount of \$445,479.68 and recommend signature by D. Sheehan. No discussion, motion passed unanimous.</p>
55.7	Record	<p>J. Seeley indicated for the Budget Update, the draft 90% CD cost estimates are expected tomorrow, and an all-day cost estimate reconciliation meeting is scheduled for Wednesday 9/14/22. The reconciled estimates are due 9/15/22 which will be sent out the Committee. The Ad Hoc VE Subcommittee Meeting is scheduled for 4:00pm on 9/26/22 followed by the SSBC Meeting on 9/26/22 at 7:00pm.</p>
55.8	Record	<p>J. Seeley indicated the cost estimate for the Spartan Stadium Building Bid Alternate reviewed at the last Committee meeting did not include the bleachers and press box, which increases the cost from \$3.8 million to \$4.6 million, under the Base Bid, there will be no bleachers or press box. The Visitor Bleachers Bid Alternate may have a code issue if reinstated, P&W is currently reviewing and will provide an update next meeting.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> 1. D. Pignone indicated he is very concerned that the Spartan Stadium Building and the bleachers and press box are now eliminated from the Base Bid of the project. 2. C. Mashburn cannot understand how the bleachers were missed and finds it completely unacceptable to not have bleachers and toilet rooms at Spartan Stadium.

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		<p>3. R. Parker asked if the existing bleachers can be reused? <i>T. McCabe stated no due to the slope in grade. S. Messinger indicated the plumbing code requires toilet rooms if bleachers are provided and without the Spartan Stadium Building, no toilets can be provided.</i></p> <p>4. S. O’Neill asked if a level concrete pad was installed could the bleachers be installed and serviced by portable toilets? <i>S. Messinger will review, but believes portable toilets are not allowed by code.</i></p> <p>5. D. Gove indicated concern that the Spartan Stadium Building and bleachers is wholly dependent upon a positive Town Meeting vote and asked if there is anything that can be changed to include the stadium and bleachers? <i>S. Messinger indicated no, the design is too far along.</i></p>
55.9	J. Seeley J. Craigie	<p>J. Seeley indicated Consigli has reviewed potential January 2023 Town Meeting dates and recommends the week of 1/16/23, based on the following milestones:</p> <ol style="list-style-type: none"> 1. 12/2/22 Trade Contractor Bids due 2. 12/22/22 – Consigli Submits Draft GMP 3. 1/3/23 – 1/9/23– Consigli Develops Final GMP 4. Week of 1/16/23 – Special Town Meeting <p>Committee Discussion:</p> <ol style="list-style-type: none"> 1. J. Craigie indicated she will review the Town By-Laws which may require Town Meetings to be held on Mondays and 1/16/23 is Martin Luther King Holiday 2. T. McCabe indicated if Town Meetings are required on Mondays, Consigli would prefer 1/9/23 in lieu of 1/23/23 so as to not impact the Subcontractors holding their bids.
55.10	B. Trivas	B. Trivas to provide direction on ramping up to the compactors at the Service Area and wheel stops at the parking spaces along the fence in the Service Area. <i>(from prior meeting)</i>
55.11	T. McCabe	T. McCabe to obtain Unit Prices for the trees in Bid Package No. 3. <i>(from prior meeting)</i>
55.12	B. Trivas	B. Trivas indicated the batting cage is not over the main court and will provide an updated plan for review. <i>(from prior meeting)</i>
55.13	Committee Members	Committee members to send any additional items to be removed and salvaged to B. McNeil to add to the Preliminary List of Salvaged Items. <i>(from prior meeting)</i>

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55.14	P. Cunningham	P. Cunningham will review the coping material, the detail around the windows, control joint locations, texture of the CMU around the windows and present to the SSBC at an upcoming meeting. <i>(from prior meeting)</i>
55.15	K. Lyons	K. Lyons to develop a process chart to address how impediments to the construction schedule due to material availability will be addressed. <i>(from prior meeting)</i>
55.16	J. Seeley	J. Seeley indicated the bill introduced by Representative Day for the \$500,000 for the District Offices, \$500,000 for the High School project and \$300,000 for the Amphitheater may not be signed until the new Governor takes office, J. Seeley to follow-up with D. Sheehan. <i>(from prior meeting)</i>
55.17	J. Seeley	J. Seeley to follow-up with J. Craigie if the drone videos she has been making with an acquaintance can be flown from a similar vantage point. <i>(from prior meeting)</i>
55.18	T. McCabe	T. McCabe to confirm 43 Fieldstone Drive requested a pre-blast survey. <i>(from prior meeting)</i>
55.19	T. McCabe B. Trivas J. Seeley	B. Trivas and T. McCabe to develop a combined written response relative to the potential impact to ground water asked by the 43 Fieldstone Drive resident. J. Seeley to share the response with the attendees to the 7/20/22 Neighborhood Meeting once developed. <i>(from prior meeting)</i>
55.20	B. Trivas	B. Trivas to provide a fee breakdown for each of the scope reinstatement bid alternates. <i>(from prior meeting)</i>
55.21	Record	J. Seeley indicated the District's Response to the MSBA 60% CD was issued to MSBA, attached.
55.22	T. McCabe	<p>Construction Update</p> <p>R. Smith provided a Construction Update, attached.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> D. Gove asked what types of items does the CM Contingency cover? <i>T. McCabe indicated the CM Contingency covers items such as acceleration costs to maintain schedule, un-procured scope due to scope gaps and bid inaccuracies, and unanticipated overruns in procurement.</i> D. Gove asked if the unused CM Contingency reverts back to the Owner? <i>T. McCabe indicated yes.</i> S. O'Neill indicated the covered fully enclosed walkway along the East side of the existing school creates potential visibility and safety issues. <i>T. McCabe indicated Consigli will cut some openings the in the side walls, covered them in plexiglass, to open it up visually and allow in natural light.</i>

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		<p>4. J. Craigie asked if the OPM Weekly Report photographs can be posted on social media? <i>M. Stafford indicated Consigli's safety manager is reviewing and will provide direction.</i></p>
55.23	J. Seeley	<p>Subcommittee Updates</p> <ol style="list-style-type: none">1. S. Iovanni provided an overview of Town Day and asked for Committee volunteers for both Town Day and Back-to-School nights. S. Iovanni reviewed the FAQ sheet, attached, for Committee member use during Town Day. Committee members to review and provide feedback to S. Iovanni.2. J. Seeley reviewed the 8/24/22 Stoneham Independent Article, attached, and the 9/1/22 and 9/9/22 Press Releases from the PR Subcommittee, attached.3. J. Seeley reviewed the Calendar of Events from the PR Subcommittee, attached.4. J. Seeley reviewed the 8/29/22 PR Subcommittee meeting minutes, attached.5. J. Seeley reviewed the 8/3/22 Technology meeting minutes, attached.6. J. Seeley requested that the Construction Subcommittee be authorized to approve urgent/emergency change orders, like past Stoneham school projects, up to \$25,000, to maintain the project schedule for changes that come up in between the monthly SSBC meetings. <p>Committee Discussion:</p> <ol style="list-style-type: none">1. D. Gove asked who is on the Construction Subcommittee and would a quorum be required? <i>J. Seeley indicated changes are reviewed at each weekly OAC meeting, at which some members of Construction Subcommittee regularly attend and that procedure would take place once the SSBC meetings convert to monthly after the new year. J. Seeley will review who is on the Subcommittee</i>2. R. Parker indicated she believes a quorum of the Subcommittee would be required.3. J. Craigie stated the time of the OAC meeting is too early for some folks to attend.

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		<p>4. D. Pignone suggested the change orders be resolved at the OAC meeting and then a meeting later in that same day is scheduled with the Construction Subcommittee members to review and approve the change orders.</p> <p>5. P. Ryder asked to have this issue tabled until the next meeting. <i>J. Seeley will provide a listing of the Construction Subcommittee members and develop a proposed process for next meeting.</i></p>
55.24	Record	Old or New Business - none
55.25	Record	Committee Questions - none
55.26	Record	Public Comment – none
55.27	Record	<p>Next Ad Hoc VE Subcommittee Meeting: September 26, 2022 at 4:00 pm.</p> <p>Next SSBC Meeting: September 26, 2022 at 7:00 pm.</p>
55.28	Record	A Motion was made by R. Parker and seconded by J. Craigie to adjourn the meeting. No discussion, motion passed unanimously.

Attachments: Agenda, Budget Status Report, Warrant No. 31, Change Order No. 02, Change Order Description Form and Change Order, Change Order Contingency, GMP Contingency and Allowance Budget Summary Form, Construction Update, MSBA 60% Response, FAQ sheet, 8/24/22 Stoneham Independent Article, 9/1/22 and 9/9/22 Press Releases, Calendar of Events, 8/29/22 PR Subcommittee meeting minutes, 8/3/22 Technology meeting minutes

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 Stoneham High School Project No.: 20033.00
 Prepared by: Joel Seeley Meeting Date: 9/12/2022
 Re: School Building Committee Meeting Time: 7:00pm
 Location: Central Middle School Library and Remote Locations Meeting No: 55
 Distribution: Attendees, (MF)

SIGNATURE	ATTENDEES	EMAIL	AFFILIATION
	Marie Christie	mariechristie@comcast.net	Co-Chair, Past Member of the School Committee/Middle School Building Committee
	David Bois	bois@arrowstreet.com	Co-Chair, Community Member with Architecture Experience
	Nicole Nial	nicole.nial@stonehamschools.org	School Committee Member
	Raymie Parker	rparker@stoneham-ma.gov	Select Board Member
	Douglas Gove	goved11@gmail.com	Vice-Chair, Community Member with Engineer Experience
	Stephen O'Neill	sonell@hayner-swanson.com	Community Member with Engineer Experience
	Josephine Thomson	jthomson315@yahoo.com	Community Member, Middle School Faculty
	Jeanne Craigie	jcraigie@stoneham-ma.gov	Town Moderator
	Lisa Gallagher	lgallagher@stonehamschools.org	Community Member, School Secretary, Past member of Middle School Building Committee
	Sharon Iovanni	sharon.iovanni@stonehambank.com	Community Member
	Cory Mashburn	cory.mashburn910@gmail.com	Community Member, Finance and Advisory Board
	Paul Ryder	pryder@Cambridgema.gov	Community Member with Construction Experience
	David Pignone	dpignone@stonehamschools.org	Select Board Member, Athletic Director, Member knowledgeable in educational mission and function of facility
	Kevin Yianacopolus	kyianacopolus@stonehamschools.org	Local Official responsible for Building Maintenance
	Dennis Sheehan	dsheehan@stoneham-ma.gov	Town Administrator / MCPPO Certified
	Leia DiLorenzo-Secor	lsecor@stonehamschools.org	Town Budget Director
	David Ljungberg	djungberg@stonehamschools.org	Superintendent of Schools
	Bryan Lombardi	blombardi@stonehamschools.org	Stoneham High School Principal
	Brian McNeil	bmcneil@stonehamschools.org	Facilities Director
	April Lanni	alanni@stoneham-ma.gov	Town Procurement Officer / MCPPO Certified
	Brooke Trivas	brooke.trivas@perkinswill.com	Perkins and Will
	Stephen Messenger	stephen.messenger@perkinswill.com	Perkins and Will
	Patrick Cunningham	patrick.cunningham@perkinswill.com	Perkins and Will
	Todd McCabe	tmccabe@consigli.com	Consigli
	Kristy Lyons	klyons@consigli.com	Consigli
	Sarah Traniello	straniello@smma.com	SMMA
	Robert Smith	rsmith@smma.com	SMMA
	Mark Stafford	mstafford@smma.com	SMMA
	Joel Seeley	jseeley@smma.com	SMMA

Agenda

Project:	New Stoneham High School	Project No.:	20033
Re:	School Building Committee Meeting	Meeting Date:	9/12/2022
Prepared by:	Joel Seeley	Meeting Time:	7:00 PM
Meeting Location:	Central Middle School Library & Remote Participation	Meeting No.:	55
Distribution:	Attendees (MF)		

1. Call to Order
2. Approval of Minutes
3. Approval of Invoices and Commitments
4. Schedule and Budget Update
5. Review Design Refinements
 - Open Action Items
 - Bid Alternates Follow-Up
 - PV Canopy Colors
6. Project Funding Update
7. Construction Update
8. Subcommittee Updates
 - Town Day Update
 - Construction Subcommittee Approval Authorization
9. New or Old Business
10. Committee Questions
11. Public Comments
12. Next Meeting: September 26, 2022
13. Adjourn

Join Go-To-Meeting: <https://meet.goto.com/453338621>

Dial-in: [+1 \(646\) 749-3122](tel:+16467493122) **Access Code:** 453-338-621

Symmes Maini & McKee Associates, Inc. (SMMA) Stoneham Public School District Stoneham High School		Original PFA Budget 08/18/2021	Budget Revisions	Current Budget	Contract Amount	Expended	(B - C) Remaining Contract Amount	Additional Projected Amount	(A - B - E) Budget Balance
BUDGET / Summary as of: 8/31/2022									
Propay code #	Name			A	B	C	D	E	
	<u>Feasibility Study Agreement</u>								
0001-0000	<u>OPM Feasibility Study</u>	187,500.00	(82,500.00)	105,000.00	105,000.00	105,000.00	-	-	-
0002-0000	<u>A&E Feasibility Study</u>	465,000.00	(45,000.00)	420,000.00	420,000.00	420,000.00	-	-	-
0003-0000	<u>Environmental and Site</u>	60,000.00	114,193.14	174,193.14	174,193.14	149,219.27	24,973.87	-	-
0004-0000	<u>Other</u>	37,500.00	13,306.86	50,806.86	49,051.36	49,051.36	-	-	1,755.50
	Feasibility Study Agreement Subtotal	\$ 750,000.00	\$ -	\$ 750,000.00	\$ 748,244.50	\$ 723,270.63	\$ 24,973.87	\$ -	\$ 1,755.50
	<u>Administration</u>								
0101-0000	<u>Legal Fees</u>	120,000.00		120,000.00	6,660.00	6,660.00	-	-	113,340.00
	<u>Owner's Project Manager</u>								
0102-0400	> <u>Design Development</u>	380,000.00		380,000.00	380,000.00	380,000.00	-	-	-
0102-0500	> <u>Construction Contract Documents</u>	640,000.00		640,000.00	640,000.00	358,400.00	281,600.00	-	-
0102-0600	> <u>Bidding</u>	180,000.00		180,000.00	180,000.00	-	180,000.00	-	-
0102-0700	> <u>Construction Contract Administration</u>	3,185,100.00		3,185,100.00	3,185,100.00	-	3,185,100.00	-	-
0102-0800	> <u>Closeout</u>	220,000.00		220,000.00	220,000.00	-	220,000.00	-	-
0102-0900	> <u>Extra Services</u>	140,000.00		140,000.00	-	-	-	-	140,000.00
0102-1000	> <u>Reimbursable & Other Services</u>	80,000.00		80,000.00	11,000.00	9,350.00	1,650.00	-	69,000.00
0102-1100	> <u>Cost Estimates</u>	-		-	-	-	-	-	-
0103-0000	<u>Advertising</u>	20,000.00		20,000.00	1,284.50	1,284.50	-	-	18,715.50
0104-0000	<u>Permitting</u>	120,000.00		120,000.00	231.00	231.00	-	-	119,769.00
0105-0000	<u>Owner's Insurance</u>	200,000.00		200,000.00	-	-	-	-	200,000.00
0199-0000	<u>Other Administrative Costs</u>	260,000.00		260,000.00	-	-	-	-	260,000.00
	Administration Subtotal	\$ 5,545,100.00	\$ -	\$ 5,545,100.00	\$ 4,624,275.50	\$ 755,925.50	\$ 3,868,350.00	\$ -	\$ 920,824.50
	<u>Architecture and Engineering</u>								
	<u>Basic Services</u>								
0201-0400	> <u>Design Development</u>	3,233,800.00		3,233,800.00	3,233,800.00	3,233,800.00	-	-	-
0201-0500	> <u>Construction Contract Documents</u>	4,921,000.00		4,921,000.00	4,921,000.00	2,811,997.20	2,109,002.80	-	-
0201-0600	> <u>Bidding</u>	1,124,800.00		1,124,800.00	1,124,800.00	-	1,124,800.00	-	-
0201-0700	> <u>Construction Contract Administration</u>	3,936,800.00		3,936,800.00	3,936,800.00	-	3,936,800.00	-	-
0201-0800	> <u>Closeout</u>	423,600.00		423,600.00	423,600.00	-	423,600.00	-	-
0201-9900	> <u>Other Basic Services</u>	-		-	-	-	-	-	-
	BASIC SERVICES SUBTOTAL	\$ 13,640,000.00	\$ -	\$ 13,640,000.00	\$ 13,640,000.00	\$ 6,045,797.20	\$ 7,594,202.80	\$ -	\$ -
	<u>Reimbursable Services</u>								
0203-0100	> <u>Construction Testing</u>	60,000.00	(8,500.00)	51,500.00	-	-	-	-	51,500.00
0203-0200	> <u>Printing (over minimum)</u>	40,000.00		40,000.00	-	-	-	-	40,000.00
0203-9900	> <u>Other Reimbursable Costs</u>	320,000.00	(7,700.00)	312,300.00	28,800.00	18,555.19	10,244.81	-	283,500.00
0204-0200	> <u>Hazardous Materials</u>	269,830.00		269,830.00	34,650.00	15,620.00	19,030.00	-	235,180.00
0204-0300	> <u>Geotech & Geo-Env.</u>	657,170.00		657,170.00	604,983.00	151,633.46	453,349.54	-	52,187.00
0204-0400	> <u>Site Survey</u>	44,000.00		44,000.00	44,000.00	44,000.00	-	-	-
0204-0500	> <u>Wetlands</u>	20,000.00		20,000.00	-	-	-	-	20,000.00
0204-1200	> <u>Traffic Studies</u>	209,000.00	7,700.00	216,700.00	216,700.00	92,631.34	124,068.66	-	-
	Architectural and Engineering Subtotal	\$ 15,260,000.00	\$ (8,500.00)	\$ 15,251,500.00	\$ 14,569,133.00	\$ 6,368,237.19	\$ 8,200,895.81	\$ -	\$ 682,367.00

Symmes Maini & McKee Associates, Inc. (SMMA) Stoneham Public School District Stoneham High School		Original PFA Budget 08/18/2021	Budget Revisions	Current Budget	Contract Amount	Expended	(B - C) Remaining Contract Amount	Additional Projected Amount	(A - B - E) Budget Balance
BUDGET / Summary as of: 8/31/2022									
0501-0000	<u>Pre-Construction Services</u>	\$ 258,528.00	\$ 8,500.00	267,028.00	267,028.00	166,194.00	100,834.00	-	\$ -
0502-0001	Construction Budget	\$ 153,418,660.00		\$ 153,418,660.00	\$ 10,520,247.00	\$ 2,057,643.61	\$ 8,462,603.39	\$ -	\$ 142,898,413.00
CSI Code	CSI Description								
0502-0010	CM Fee			178,756.75	178,756.75	35,340.21	143,416.54	-	-
0502-0020	Bonds and Insurances			282,821.65	282,821.65	-	282,821.65	-	-
0502-0030	Total GMP Construction Contingency			213,602.75	213,602.75	-	213,602.75	-	-
0502-0030	Allowances			150,100.00	150,100.00	1,420.06	148,679.94	-	-
0502-0100	CM Staffing			317,148.00	317,148.00	174,431.40	142,716.60	-	-
0502-0100	Division 1 - General Requirements			663,167.45	663,167.45	209,298.94	453,868.51	-	-
0502-0200	Division 2 - Existing Conditions			-	-	-	-	-	-
0502-0300	Division 3 - Concrete			-	-	-	-	-	-
0502-0400	Division 4 - Masonry			-	-	-	-	-	-
0502-0500	Division 5 - Metals			-	-	-	-	-	-
0502-0600	Division 6 - Wood, Plastics and Composites			-	-	-	-	-	-
0502-0700	Division 7 - Thermal & Moisture Protection			-	-	-	-	-	-
0502-0800	Division 8 - Openings			-	-	-	-	-	-
0502-0900	Division 9 - Finishes			-	-	-	-	-	-
0502-1000	Division 10 - Specialties			-	-	-	-	-	-
0502-1100	Division 11 - Equipment			-	-	-	-	-	-
0502-1200	Division 12 - Furnishings			-	-	-	-	-	-
0502-1400	Division 14 - Conveying Systems			-	-	-	-	-	-
0502-2100	Division 21 - Fire Suppression			-	-	-	-	-	-
0502-2200	Division 22 - Plumbing			-	-	-	-	-	-
0502-2300	Division 23 - HVAC			-	-	-	-	-	-
0502-2600	Division 26 - Electrical			574,160.05	574,160.05	169,867.60	404,292.45	-	-
0502-2700	Division 27 - Communications			-	-	-	-	-	-
0502-2800	Division 28 - Electronic Safety & Security			-	-	-	-	-	-
0502-3100	Division 31 - Earthwork			7,614,478.00	7,614,478.00	1,385,427.75	6,229,050.25	-	-
0502-3200	Division 32 - Exterior Improvements			-	-	-	-	-	-
0502-3300	Division 33 - Utilities			-	-	-	-	-	-
0502-9900	Retainage			526,012.35	526,012.35	81,857.65	444,154.70	-	-
0508-0000	Change Orders			-	-	-	-	-	-
	Construction Budget Subtotal	\$ 153,418,660.00	\$ 8,500.00	\$ 10,520,247.00	\$ 10,520,247.00	\$ 2,057,643.61	\$ 8,462,603.39	\$ -	\$ 142,898,413.00
	<u>Alternates</u>								
0506-0000	<u>Alternates</u>	-	-	-	-	-	-	-	-
	Alternates Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0600-0000	<u>Miscellaneous Project Costs</u>								
0601-0000	<u>Utility Company Fees</u>	200,000.00		200,000.00	140,451.45	137,463.95	2,987.50	-	59,548.55
0602-0000	<u>Testing Services</u>	560,000.00		560,000.00	220,000.00	-	220,000.00	-	340,000.00
0603-0000	<u>Swing Space / Modulars</u>	-		-	-	-	-	-	-
0699-0000	<u>Other Project Costs (Mailing & Moving)</u>	360,000.00		360,000.00	-	-	-	-	360,000.00
0600-0000	Miscellaneous Project Costs Subtotal	\$ 1,120,000.00	\$ -	\$ 1,120,000.00	\$ 360,451.45	\$ 137,463.95	\$ 222,987.50	\$ -	\$ 759,548.55
0700-0000	<u>Furnishings and Equipment</u>								
0701-0000	<u>Furnishings</u>	1,251,000.00		1,251,000.00	-	-	-	-	1,251,000.00
0702-0000	<u>Equipment</u>								
0703-0000	<u>Computer Equipment</u>	1,251,000.00		1,251,000.00	-	-	-	-	1,251,000.00
	Furnishings and Equipment Subtotal	\$ 2,502,000.00	\$ -	\$ 2,502,000.00	\$ -	\$ -	\$ -	\$ -	\$ 2,502,000.00
0507-0000	<u>Owner's Construction Contingency</u>	7,670,933.00		7,670,933.00	-	-	-	-	7,670,933.00
0801-0000	<u>Owners' (soft cost) Contingency</u>	3,068,373.00		3,068,373.00	-	-	-	-	3,068,373.00
	Contingency Subtotal	\$ 10,739,306.00	\$ -	\$ 10,739,306.00	\$ -	\$ -	\$ -	\$ -	\$ 10,739,306.00
	Total Project Budget	\$ 189,593,594.00	\$ -	\$ 46,695,181.00	\$ 31,089,379.45	\$ 10,042,540.88	\$ 20,779,810.57	\$ -	\$ 158,504,214.55

NEW STONEHAM HIGH SCHOOL, STONEHAM, MASSACHUSETTS			
Change Order Budget Summary			
Change Order No.	Change Order Amount	Owner's Contingency Budget	
		\$7,670,933.00	Original PFA Budget - August 18, 2021
		-\$450,000.00	60% Construction Documents Cost Estimate Reallocation
1	\$0.00		CR-001
2	\$445,479.68		CR-008
	Change Order Total	Budget Total	Budget Balance
TOTAL	\$445,479.68	\$7,220,933.00	\$6,775,453.32

GMP Contingency Budget Summary			
Change Order No.	Contingency Transfer Amount	GMP Contingency Budget	
		\$224,845.00	Amendment No. 1 - Early Site Package
		\$430,413.00	Amendment No. 2 - Concrete and Steel
1	\$0.00		
2	\$0.00		
	Contingency Transfer Total	GMP Contingency Total	Contingency Balance
TOTAL	\$0.00	\$655,258.00	\$655,258.00

Allowance Budget Summary			
Change Order No.	Allowance Amount	Allowance Budget	
		\$ 990,000.00	Amendment No. 1 - Early Site Package
		\$ 275,000.00	Amendment No. 2 - Concrete and Steel
1	\$4,000.00		AT-001
2	\$685,000.00		AT-004; AT-007
	Allowance Total	Allowance Budget	Allowance Balance
TOTAL	\$689,000.00	\$ 1,265,000.00	\$576,000.00

Change Order Summary

DATE: September 9, 2022
 TO: Stoneham Building Committee
 SUBJECT: **Change Order Summary – CO-002**

Summary Details

Detailed Description	Value	Cost
AT-004 Two Days of Geo-Probes for Locating Ledge This Allowance Transfer is to provide two additional days of Geo-Probing to identify and locate ledge within the Bid Package #1 and building footprint areas.	\$7,700.00	\$0.00
AT-007 Utilize Ledge Allowance This Allowance Transfer is to use available allowance to remove ledge as planned during the BP#1 Enabling Phase. This allowance uses all available project ledge removing allowances included in BP#1.	\$677,300.00	\$0.00
CR-008 Additional Ledge Removal for BP#1 This Change Request provides a cost for all additionally discovered ledge to be removed as part of BP#1.	\$445,479.68	\$445,479.68
HT-001 Fire Watch for Blasting This Hold Transfer is to cover the cost of a “fire watch” by SFD during blasting operations. Two firefighters are required on site for any blast over one acre in area.	\$5,700.00	\$0.00
Total Change Order Value		\$445,479.68

Notes:

AT = Allowance Transfer
 BT = Budget Transfer
 HT = Hold Transfer
 CR = Change Request

End of Summary



Change Order

Project:

2515 Stoneham High School
149 Franklin Street
Stoneham, MA 02180

Change Order: CO002

Date: 9/9/2022

To Contractor:

Consigli Construction Co., Inc.

The Contract is changed as follows:

Change Order #002 (AT004, AT007, HT001, CR008)

AT004 Two Additional Days of Geo-Probe Test Rock Drilling (7-5-22 & 7-6-22)	\$0.00
AT007 Utilize BP1 Ledge Allowance Budgets - Allowance Transfer	\$0.00
CR008 Finalized Ledge Removal Quantities for BP#1	\$445,479.68
HT001 Utilize BP1 Ledge Blasting - Fire Watch Details - Hold Transfer	\$0.00
Total:	\$445,479.68

The original Contract Amount was	\$10,520,247.00
Net change by previously authorized Change Orders	\$0.00
The Contract Amount prior to this Change Order was	\$10,520,247.00
The Contract will be increased by this Change Order in the amount of	\$445,479.68
The new Contract Amount including this Change Order will be	\$10,965,726.68
The Contract Time will be unchanged.	

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

	Consigli Construction Co., Inc.	
ARCHITECT	CONTRACTOR	OWNER
(Signature)	(Signature)	(Signature)
By	By Steven H. Banak	By
Date	Date 09/09/2022	Date



Allowance Usage Request

To: Joel G. Seeley AIA
 Symmes Maini & Mckee
 1000 Massachusetts Avenue
 Cambridge, MA 02138
 Ph: (617)520-9403 Fax: (800)648-4920

Number: AT004
Date: 8/23/22
Job: 2515 Stoneham High School
Phone:

Description: Two Additional Days of Geo-Probe Test Rock Drilling (7-5-22 & 7-6-22)

Reason: Field Condition

Initiated by: Bolla, Justin (Consigli Construction Co., Inc.)

Source: Other

We offer the following specifications and pricing to make the changes as described below:

This allowance transfer is for the following scope of work:

Two additional days of rock-drilling geo-probe work for intital ledge testing performed by Maine Drilling & Blasting on a daily rate. T&M backup tracked by CCC and SMMA for drilling days above and beyond those carried in the subcontract to be tracked against blasting work allowances.

Description	Cost Code	Labor	Material	Equipment	Subcontract	Other	Price
MAROIS - Stoneham Added Rock Probing (AT004) Proposal (T&M test probe drilling days 7-5-22 and 7-6-22)	2-401				\$7,700.00		\$7,700.00
Allowance Transfer - MBI Added Geo-Probe Rock Drilling (AT004)	24-004				\$-7,700.00		\$-7,700.00
						Subtotal:	\$0.00
						Builders Risk (0.157%)	\$0.00
						General Liability (1.10%)	\$0.00
						SDI (Non-Trade Only) (1.40%)	\$0.00
						Bond (0.53%)	\$0.00
						OH&P (5% subs, 10% self perform)	\$0.00
						Total:	\$0.00

SCHEDULE IMPACT

We have proceeded with this change to achieve schedule.

As directed, we will not proceed with this change until formal direction from OWNER is received.

ARCHITECT

Consigli Construction Co., Inc.

CONTRACTOR
 72 Sumner Street
 Milford, MA 01757

OWNER

(Signature)

(Signature)

(Signature)

Patrick Condon

By

By

09-08-2022

By

Date

Date

Date

Consigli Construction Co., Inc.

Construction Managers and General Contractors

72 Sumner Street, Milford MA 01757 • phone: 508-473-2580 • fax: 508-473-3588 • web: www.consigli.com
 Hartford CT • Portland ME • Milford MA



Allowance Usage Request

To: Joel G. Seeley AIA
 Symmes Maini & Mckee
 1000 Massachusetts Avenue
 Cambridge, MA 02138
 Ph: (617)520-9403 Fax: (800)648-4920

Number: AT007
Date: 9/9/22
Job: 2515 Stoneham High School
Phone:

Description: Utilize BP1 Ledge Allowance Budgets - Allowance Transfer

Reason: Field Condition

Initiated by: Seeley, Joel (SYMMES MAINI & MCKEE)

Source: Other

We offer the following specifications and pricing to make the changes as described below:

This allowance transfer is for the following scope of work:

Utilize the Bid Package #1 allowance budgets for ledge/rock removal work within the building footprint and utility areas. Allowance budgets used to cover partial costs as outlined in Marois Proposal 09-08-22.

Description	Cost Code	Labor	Material	Equipment	Subcontract	Other	Price
MAROIS - Utilization of Ledge Removal Allowances for BP#1 (as detailed in Proposal 09-08-22)	2-401				\$677,300.00		\$677,300.00
ALLOWANCE - Ledge Removal @ Foundations - Transfer	24-004				\$-142,300.00		\$-142,300.00
ALLOWANCE - Ledge Removal @ Tennis Courts - Transfer	24-005				\$-500,000.00		\$-500,000.00
ALLOWANCE - PreBlast Surveys - Transfer	24-007				\$-35,000.00		\$-35,000.00
						Subtotal:	\$0.00
				Builders Risk (0.157%)			\$0.00
				General Liability (1.10%)			\$0.00
				SDI (Non-Trade Only) (1.40%)			\$0.00
				Bond (0.53%)			\$0.00
				OH&P (5% subs, 10% self perform)			\$0.00
						Total:	\$0.00

- SCHEDULE IMPACT
- We have proceeded with this change to achieve schedule.
- As directed, we will not proceed with this change until formal direction from OWNER is received.



CONSIGLI
Est. 1905

Allowance Usage Request

To: Joel G. Seeley AIA
Symmes Maini & Mckee
1000 Massachusetts Avenue
Cambridge, MA 02138
Ph: (617)520-9403 Fax: (800)648-4920

Number: AT007
Date: 9/9/22
Job: 2515 Stoneham High School
Phone:

ARCHITECT

Consigli Construction Co., Inc.
CONTRACTOR
72 Sumner Street
Milford, MA 01757

OWNER

(Signature)

(Signature)

(Signature)

PATRICK CONDON

By

By

09-09-2022

By

Date

Date

Date



Change Request

To: Joel G. Seeley AIA
 Symmes Maini & Mckee
 1000 Massachusetts Avenue
 Cambridge, MA 02138
 Ph: (617)520-9403 Fax: (800)648-4920

Number: HT001
Date: 9/9/22
Job: 2515 Stoneham High School
Phone:

Description: Utilize BP1 Ledge Blasting - Fire Watch Details - Hold Transfer

Reason: Field Condition

Initiated by: Seeley, Joel (SYMMES MAINI & MCKEE)

Source: Other

We offer the following specifications and pricing to make the changes as described below:

This hold transfer is for the following scope of work:

Utilize the Bid Package #1 Hold budget for Fire Watch Details associated with ledge removal blasting work within the building footprint and utility areas. Hold budget used to cover partial costs as outlined in Marois Proposal 09-08-22.

Description	Cost Code	Labor	Material	Equipment	Subcontract	Other	Price
MAROIS - Utilization of Fire Watch Hold for BP#1 Ledge Blasting (as detailed in Proposal 09-08-22)	2-401				\$5,700.00		\$5,700.00
HOLD - Fire Watch Details for Blasting - Transfer	2-409				\$-5,700.00		\$-5,700.00
						Subtotal:	\$0.00
				Builders Risk (0.157%)			\$0.00
				General Liability (1.10%)			\$0.00
				SDI (Non-Trade Only) (1.40%)			\$0.00
				Bond (0.53%)			\$0.00
				OH&P (5% subs, 10% self perform)			\$0.00
						Total:	\$0.00

SCHEDULE IMPACT

We have proceeded with this change to achieve schedule.

As directed, we will not proceed with this change until formal direction from OWNER is received.

ARCHITECT

Consigli Construction Co., Inc.

CONTRACTOR
 72 Sumner Street
 Milford, MA 01757

OWNER

(Signature)

(Signature)

(Signature)

PATRICK CONDON

By

By

09-09-2022

By

Date

Date

Date

Consigli Construction Co., Inc.

Construction Managers and General Contractors

72 Sumner Street, Milford MA 01757 • phone: 508-473-2580 • fax: 508-473-3588 • web: www.consigli.com
 Hartford CT • Portland ME • Milford MA



Change Request

To: Joel G. Seeley AIA
 Symmes Maini & Mckee
 1000 Massachusetts Avenue
 Cambridge, MA 02138
 Ph: (617)520-9403 Fax: (800)648-4920

Number: CR008
Date: 9/9/22
Job: 2515 Stoneham High School
Phone:

Description: Finalized Ledge Removal Quantities for BP#1

Reason: Field Condition

Initiated by: Seeley, Joel (SYMMES MAINI & MCKEE)

Source: Other

We offer the following specifications and pricing to make the changes as described below:

This change request is for the following scope of work:

Ledge Removal Summary for Bid Package #1. Rock quantity above and beyond contract allowance and hold budgets. Totals calculated and confirmed by field testing and broken down per attached pricing summary outlined below.

Marois Total 08/26/2022: \$1,234,508.50

Less Current BP#1 Ledge/Rock Removal Hold & Allowance Budgets: \$683,000 (AT/HT transfers submitted under separate cover)

Marois Sub-Total Added Cost: \$551,508.50

Less Storm Drainage Credit: \$140,402.00

-We have included the amount for the deletion of the storm drainage at the entry drive, \$140,402 in this amount.

-The additional rock/ledge removal costs associated with the storm drainage system around the new building is not included in this amount.

-The additional rock/ledge removal costs associated with the utilities between the new and existing school is not included in this amount.

-Any rock/ledge removal costs associated with PV duct banks, foundations for PV canopies and pull boxes is not included in this amount.

-Any rock/ledge removal costs for landscaping in the parking lot islands is not included in this amount.

Description	Cost Code	Labor	Material	Equipment	Subcontract	Other	Price
MAROIS - Finalized Ledge Removal Quantities for BP#1 Work Proposal Breakdown Dated 09-09-22 (Overage Beyond Holds/Allowances)	2-401				\$551,508.50		\$551,508.50
MAROIS - Credit Value for Deletion of Drainage Scope Along Franklin St Entry Drive (Pricing dated 07-27-22)	2-401				\$-140,402.00		\$-140,402.00
						Subtotal:	\$411,106.50
			Builders Risk (0.157%)		\$411,106.50		\$645.44
			General Liability (1.10%)		\$411,106.50		\$4,522.17
			SDI (Non-Trade Only) (1.40%)		\$411,106.50		\$5,755.49
			Bond (0.53%)		\$422,029.60		\$2,236.76
			OH&P (5% subs, 10% self perform)		\$424,266.36		\$21,213.32
						Total:	\$445,479.68



Change Request

To: Joel G. Seeley AIA
Symmes Maini & Mckee
1000 Massachusetts Avenue
Cambridge, MA 02138
Ph: (617)520-9403 Fax: (800)648-4920

Number: CR008
Date: 9/9/22
Job: 2515 Stoneham High School
Phone:

- SCHEDULE IMPACT
- We have proceeded with this change to achieve schedule.
- As directed, we will not proceed with this change until formal direction from OWNER is received.

ARCHITECT	Consigli Construction Co., Inc. CONTRACTOR 72 Sumner Street Milford, MA 01757 	OWNER
(Signature)	(Signature)	(Signature)
By	PATRICK CONDON	By
Date	09-09-2022	Date

Warrant No. 31

Project:	Stoneham High School, Stoneham, Massachusetts	Project No.:	20033
Prepared by:	Joel G. Seeley, AIA	Date:	9/12/2022

School Building Committee for the Stoneham High School hereby authorizes to draw against funds for the obligations incurred for value received in services and for materials shown below:

<u>Vendor</u>	<u>Invoice No.</u>	<u>Invoice Date</u>	<u>Invoice Amount</u>	<u>ProPay Code</u>	<u>Balance After Invoice</u>
Sustainable Energy Advantage, LLC	5742	8/31/2022	\$ 1,519.23	0203-9900	\$ 8,725.58
Stoneham Independent	Legal Ad #22114	8/24/2022	\$ 302.00	0103-0000	\$ 18,413.50
Perkins & Will	0193708	8/26/2022	\$ 702,999.30	0201-0500	\$ 1,406,003.50
Perkins & Will	0193708 AM13	8/26/2022	\$ 463.32	0204-0300	\$ 7,832.22
Perkins & Will	0193708 AM16	8/26/2022	\$ 2,750.00	0204-0300	\$ 15,400.00
SMMA	57745	9/8/2022	\$ 92,800.00	0102-0500	\$ 188,800.00
Consigli Construction Co.	PreCon 11	8/31/2022	\$ 18,466.00	0501-0000	\$ 81,728.00
Consigli Construction Co.	2	8/31/2022	\$ 742,960.66	See Schedule of Values	
Total			\$ 1,562,260.51		

Marie Christie	David Bois
Nicole Nial	Raymie Parker
Kevin Yianacopolus	Douglas Gove
Stephen O'Neill	Josephine Thomson
Jeanne Craigie	Lisa Gallagher
Sharon Iovanni	Cory Mashburn
Paul Ryder	David Pignone

Approved on _____

Sustainable Energy Advantage, LLC

161 Worcester Rd, Suite 503

Framingham, MA 01701

Phone # 508-665-5855 Fax # 508-665-5858

bgrace@seadvantage.com www.seadvantage.com

Invoice

Date	Invoice #
8/31/2022	5742

Bill To
Town of Stoneham April Lanni 35 Central Street Stoneham, MA 02180

Customer Contract ID	SEA Client Job Code	Terms	Due Date
SOW#2 04.25.22	259.2.1	30 Days	9/30/2022
Description	Qty	Rate	Amount
Stoneham High School Solar Ongoing PPA Support			
Task 1: Project Host and Offtaker Consultant			
Tom Michelman, Sr. Director, hours for August 2022 per attached timesheet.	2.89	305.00	881.45
Stephan Wollenburg, Sr. Consultant, hours for August 2022 per attached timesheet.	0.33	248.00	81.84
Sahil Bahkt, Analyst, hours for August 2022 per attached timesheet.	4.18	133.00	555.94
Thank you for your business!		Total	\$1,519.23



Time Entries by Project

Time Entry Date: From Monday, August 1, 2022 to Wednesday, August 31, 2022

Approval Status	Date	Hours Worked	Description
Project: Stoneham, Town of, 259.2.1, Stoneham HS PPA Support			
Client: Stoneham, Town of			
Description:			
Employee: Bakht, Sahil			
Task: Task 1: Project Host and Offtaker Consultant			
Approved	8/3/2022	0.33	Replying to tom/SFW on answers/questions to ask Nexamp
Approved	8/16/2022	1.08	Work on updating the Stoneham bid sheet
Approved	8/16/2022	2.10	Updating the Stoneham bid sheet, adding a structure for B7 Rate, Updating B3 rate for 2022 etc.
Approved	8/16/2022	0.67	Discussion with TSM on Stoneham updates
	Task Total	4.18	
	Employee Total	4.18	
Employee: Michelman, Tom			
Task: Task 1: Project Host and Offtaker Consultant			
Approved	8/1/2022	0.17	Review Robert Galvin's edits and comments to the PV Storage Option Lease
Approved	8/1/2022	0.78	Biweekly call
Approved	8/3/2022	0.67	Review Grace Taylor's latest 8760 Solar + BESS spreadsheet. Draft answers for SFW and SMB to review, and direct SMB to incorporate submittal into Price Bid Form as to calculate benefits and costs to Nexamp.
Approved	8/3/2022	0.17	review SFW and SMBs comments to SEA's response to Nexamp, and send out to Nexamp
Approved	8/15/2022	0.10	Find RFP document and answer Stephen Messinger's questions about racking
Approved	8/15/2022	0.58	Bi-Weekly call
Approved	8/16/2022	0.42	Primarily meet w/ SMB to discuss how to deal with Nexamp's latest 8760 submittal
	Task Total	2.89	
	Employee Total	2.89	
Employee: Wollenburg, Stephan			
Task: Task 1: Project Host and Offtaker Consultant			
Approved	8/3/2022	0.33	reviewing additional information provided by Nexamp.
	Task Total	0.33	
	Employee Total	0.33	
	Project Total	7.40	
	Grand Total	7.40	

Perkins&Will

Invoice

August 26, 2022

Project No: 153010.000

Invoice No: 0193708

Dennis Sheehan
 Town of Stoneham
 Town Hall
 35 Central St
 Stoneham, MA 02180

Stoneham High School - FS-Closeout

Professional Services: through August 26, 2022

Fee

Billing Phase	Fee	Percent Complete	Earned	Previous Fee Billing	Current Fee Billing
Feasibility Phase	175,000.00	100.00	175,000.00	175,000.00	0.00
Schematic Design	245,000.00	100.00	245,000.00	245,000.00	0.00
Amendment #1	0.00	0.00	0.00	0.00	0.00
Survey/Wetlands-Nitsch	27,500.00	100.00	27,500.00	27,500.00	0.00
Phase 1 ESA	2,970.00	0.00	0.00	0.00	0.00
Geotechnical Services-Lahlaf	16,417.50	100.00	16,417.50	16,417.50	0.00
Hazardous Materials-UEC	4,950.00	100.00	4,950.00	4,950.00	0.00
Amendment #2	0.00	0.00	0.00	0.00	0.00
Traffic Analysis-Nelson Nygaard	18,150.00	0.00	0.00	0.00	0.00
Amendment #3	0.00	0.00	0.00	0.00	0.00
Hydrant Flow Testing-AE	1,760.00	100.00	1,760.00	1,760.00	0.00
Amendment #4	0.00	0.00	0.00	0.00	0.00
Traffic Analysis-Nelson Nygaard	-18,150.00	0.00	0.00	0.00	0.00
Amendment #5	0.00	0.00	0.00	0.00	0.00
Traffic Analysis-Nelson Nygaard	4,166.14	100.00	4,166.14	4,166.14	0.00
Amendment #6	0.00	0.00	0.00	0.00	0.00
Traffic Analysis - Vanasse	13,970.00	70.6693	9,872.50	9,872.50	0.00
Amendment #7	0.00	0.00	0.00	0.00	0.00
Geotechnical - Lahlaf	23,699.50	100.00	23,699.50	23,699.50	0.00

REMIT PAYMENTS TO Perkins&Will, Inc.
 PO Box 71181
 Chicago, IL 60694-1181

WIRE/ACH TO BMO Harris Bank
 ABA# 071000288, Acct# 3769601
 SWIFT HATRUS44

TERMS Net 30 Days

Project	153010.000	Stoneham High School:FS-Closeout				Invoice	0193708
Amendment #8	0.00	0.00	0.00	0.00	0.00	0.00	
Geothermal - McPhail	55,000.00	67.4423	37,093.28	37,093.28	37,093.28	0.00	
Amendment #9	0.00	0.00	0.00	0.00	0.00	0.00	
Survey - Nitsch	23,760.00	100.00	23,760.00	23,760.00	23,760.00	0.00	
Amendment #10	0.00	0.00	0.00	0.00	0.00	0.00	
Walk Through	3,800.00	100.00	3,800.00	3,800.00	3,800.00	0.00	
Amendment #11	0.00	0.00	0.00	0.00	0.00	0.00	
Design Documents	3,233,800.00	100.00	3,233,800.00	3,233,800.00	3,233,800.00	0.00	
Construction Documents	4,921,000.00	71.4285	3,514,996.50	2,811,997.20	2,811,997.20	702,999.30	
Bidding	1,124,800.00	0.00	0.00	0.00	0.00	0.00	
Construction Administration	3,936,800.00	0.00	0.00	0.00	0.00	0.00	
Completion	423,600.00	0.00	0.00	0.00	0.00	0.00	
Amendment #12	0.00	0.00	0.00	0.00	0.00	0.00	
Hazardous Materials - UEC	34,650.00	45.0794	15,620.00	15,620.00	15,620.00	0.00	
Amendment #13	0.00	0.00	0.00	0.00	0.00	0.00	
Geotechnical - LGLI	55,429.00	85.8698	47,596.78	47,133.46	47,133.46	463.32	
Amendment #14	0.00	0.00	0.00	0.00	0.00	0.00	
Geo-environmental - FS Engineers	13,640.00	0.00	0.00	0.00	0.00	0.00	
Amendment #15	0.00	0.00	0.00	0.00	0.00	0.00	
Soil Testing - FS Engineers	85,690.00	0.00	0.00	0.00	0.00	0.00	
Amendment #16	0.00	0.00	0.00	0.00	0.00	0.00	
Test Well - McPhail	122,650.00	87.4439	107,250.00	104,500.00	104,500.00	2,750.00	
Amendment #17	0.00	0.00	0.00	0.00	0.00	0.00	
Survey Work - Nitsch	44,000.00	100.00	44,000.00	44,000.00	44,000.00	0.00	
Amendment #18	0.00	0.00	0.00	0.00	0.00	0.00	
Traffic Work - Vanasse	216,700.00	42.7463	92,631.34	92,631.34	92,631.34	0.00	
Amendment #19	0.00	0.00	0.00	0.00	0.00	0.00	
Topographic Survey - Nitsch	8,800.00	100.00	8,800.00	8,800.00	8,800.00	0.00	
Amendment #23	0.00	0.00	0.00	0.00	0.00	0.00	
Soil Samples - FE Engineers	5,500.00	0.00	0.00	0.00	0.00	0.00	
Total Fee	14,825,052.14		7,637,713.54	6,931,500.92	6,931,500.92	706,212.62	
Total Fee						706,212.62	
Total this Invoice						\$706,212.62	

REMIT PAYMENTS TO Perkins&Will, Inc.
 PO Box 71181
 Chicago, IL 60694-1181

WIRE/ACH TO BMO Harris Bank
 ABA# 071000288, Acct# 3769601
 SWIFT HATRUS44

TERMS Net 30 Days



LGCI

Lahlaf Geotechnical Consulting, Inc.
 100 Chelmsford Road
 Suite 2
 Billerica, MA 01862
 Phone: (978) 330-5912
 Fax: (978) 330-5056
 E-mail: LGCI@LGCinc.net

Invoice

Invoice No.:	2022-08
Invoice for Period Ending:	6/30/2022
Date:	7/20/2022

Bill To

Perkins + Will
 Ms. Brooke Trivas
 225 Franklin Street
 Suite 1100
 Boston, MA 02110

Terms	Client No.	Project Name	Project Number	Location
Due on receipt	0940	Prop. Stoneham High School	2022	Stoneham, MA
Description		Qty	Rate	Amount
LGCI Proposal No. 21047-Rev.2 Services performed June 1 - 30, 2022				
LGCI Proposal No. 21047-Rev.2			\$200,485.00	
Amount Previously Invoiced			\$42,848.60	
Current LGCI Invoice No. 2022-08			\$421.20	
Amount Invoiced to date			\$43,269.80	
Balance remaining from Budget amount			\$157,215.20	
Task 2.3 Consultation				
Senior Engineer - Consultation with Environmental Engineer		0.5	156.00	78.00
Senior Engineer - Consultation		2.2	156.00	343.20
Make check payable to Lahlaf Geotechnical Consulting, Inc.				
Total due this invoice				\$421.20
Balance Due			\$421.20	



July 23, 2022
 Project No: 7189.2.TD
 Invoice No: 0074089

Perkins + Will
 225 Franklin Street, Ste. 1100
 Boston, MA 02110

Attention: Ms. Brooke Trivas
 email: bos.ap@perkinswill.com

Stoneham High School; Stoneham, Massachusetts
 Geothermal Engineering Services
 Task D: Bidding Phase
 Proposal dated 5/7/21 - Budget \$2,500

Professional Services from June 1, 2022 to June 30, 2022

Fee

Total Fee	2,500.00			
Percent Complete	100.00	Total Earned	2,500.00	
		Previous Fee Billing	0.00	
		Current Fee Billing	2,500.00	
		Total Fee		2,500.00
		Total this Invoice		\$2,500.00

Billings to Date

	Current	Prior	Total
Fee	2,500.00	0.00	2,500.00
Totals	2,500.00	0.00	2,500.00



Mr. Dennis Sheehan
 Town Administrator
 Town of Stoneham
 35 Central St
 Stoneham, MA 02180

September 8, 2022
 Project No: 20033.00
 Invoice No: 0057745

Project 20033.00 Stoneham High School OPM Services
Professional Services from July 23, 2022 to September 2, 2022

Fee

Billing Phase	Fee	Percent Complete	Earned	Previous Fee Billing	Current Fee Billing
Feasibility Study	56,000.00	100.00	56,000.00	56,000.00	0.00
Schematic Design	49,000.00	100.00	49,000.00	49,000.00	0.00
Design Development	380,000.00	100.00	380,000.00	380,000.00	0.00
Construction Documents	640,000.00	70.50	451,200.00	358,400.00	92,800.00
Bidding	180,000.00	0.00	0.00	0.00	0.00
Construction Administration	3,185,100.00	0.00	0.00	0.00	0.00
Closeout	220,000.00	0.00	0.00	0.00	0.00
Total Fee	4,710,100.00		936,200.00	843,400.00	92,800.00
		Total Fee			92,800.00
			Total this Invoice		\$92,800.00

Billings to Date

	Current	Prior	Total
Fee	92,800.00	843,400.00	936,200.00
Consultant	0.00	9,350.00	9,350.00
Expense	0.00	845.08	845.08
Totals	92,800.00	853,595.08	946,395.08

Authorized By: Joel Seeley

TO OWNER: Symmes Maini & McKee Associates
1000 Massachusetts Avenue
Cambridge, MA 02138

PROJECT: Stoneham High School

Invoice: 11
Draw: 251500011
Application date: 8/31/2022
Period ending date: 8/31/2022

DISTRIBUTE TO:
 OWNER
 ARCHITECT
 CONTRACTOR

FROM CONTRACTOR: Consigli Construction Co., Inc.
72 Sumner Street
Milford, MA 01757

VIA ARCHITECT: Perkins + Will
225 Franklin Street
Boston, MA 02110

PROJECT NO: 2515

CONTRACT DATE:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown above, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$283,528.00
2. NET CHANGE BY CHANGE ORDERS	\$0.00
3. CONTRACT SUM TO DATE (Line 1 ± 2)	\$283,528.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$209,660.00
5. RETAINAGE:	
a. 0.00 % of Completed Work (Column D + E on G703)	\$ 0.00
b. 0.00 % of Stored Material (Column F on G703)	\$ 0.00
Total Retainage (Lines 5a+5b or Total in Column I on G703)	\$0.00
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$209,660.00
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 From Prior CERTIFICATE)	\$191,194.00
8. CURRENT PAYMENT DUE (Line 6 Less Line 7)	\$18,466.00
9. BALANCE TO FINISH INCLUDING RETAINAGE (Line 3 Less Line 6)	\$73,868.00

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS		
NET CHANGES by Change Order		

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Consigli Construction Co., Inc.
By: *[Signature]* Date: 9/16/22

State of: Ma County of: Worcester
On this the 6th day of September before me,

proved to me through satisfactory evidence of identity, which was/were Personal Knowledge

to be the person(s) whose name(s) was/were signed on the preceding or attached document in my presence, and who swore or affirmed to me that the contents of this document are truthful and accurate to the best of his/her knowledge.

Notary Public: *[Signature]*
My Commission expires: 7/14/2028
Gabriel S. Costa
NOTARY PUBLIC
Commonwealth of Massachusetts
My Commission Expires July 14, 2028

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED:\$ 18,466.00

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT: *[Signature]* Date: 9.7.2022

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CONTINUATION SHEET

AIA DOCUMENT G703

Detail Page 2 of 2 Pages

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

Project:
2515-00 / Stoneham High School

Invoice: **11**
Draw: **251500011**
Application date: **8/31/2022**
Period ending date: **8/31/2022**

In tabulations below, amounts are stated to the nearest dollar.
Use Column I on contracts where variable retainage for items may apply.

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D + E + F)	% (G / C)		
22-000	Stoneham High School								
22-005	Schematic Design Phase	25,000.00	25,000.00			25,000.00	100.00		
22-010	Post Schematic Design	258,528.00	166,194.00	18,466.00		184,660.00	71.43	73,868.00	
GRAND TOTALS		283,528.00	191,194.00	18,466.00		209,660.00	73.95	73,868.00	

Users may obtain validation of this document by requesting a completed AIA Document D401 - Certification of Document's Authenticity from the Licensee

A DIVISION	B DESCRIPTION OF WORK MSBA CODE		C SCHEDULED VALUE	D WORK COMPLETED		F STORED MATERIAL	G COMPLETED AND STORED TO DATE (D+E+F)	H % (G/C)	I BALANCE TO FINISH (C-G)	J RETAINAGE	
				PREVIOUS APPLICATION	THIS APPLICATION						
					WORK IN PLACE						
01	CM Fee	0502-0010	188,165.00		13,980.66	-	51,180.88	27%	136,984.12	2,559.04	
02	Bonds and Insurances	0502-0020	297,707.00		-	-	-	0%	297,707.00		
03	Total GMP Construction Contingency	0502-0030	224,845.00		-	-	-	0%	224,845.00		
03	Subtotal Allowances	0502-0030	158,000.00		6,753.85	-	8,248.65	5%	149,751.35	412.43	
01A	CM Staffing	0502-0100	333,840.00		150,228.00	-	333,840.00	100%	-	16,692.00	
01A	General Requirements	0502-0100	698,071.00		40,401.34	-	260,716.01	37%	437,354.99	13,035.81	
02	Existing Conditions	0502-0200	-		-	-	-	#DIV/0!	-		
03	Concrete Subtotal	0502-0300	-		-	-	-	#DIV/0!	-		
04	Masonry	0502-0400	-		-	-	-	#DIV/0!	-		
05	Metals Subtotal	0502-0500	-		-	-	-	#DIV/0!	-		
06	Wood, Plastic, and Composites	0502-0600	-		-	-	-	#DIV/0!	-		
07	Thermal & Moisture Protection Subtotal	0502-0700	-		-	-	-	#DIV/0!	-		
08	Doors & Windows Subtotal	0502-0800	-		-	-	-	#DIV/0!	-		
09	Finishes Subtotal	0502-0900	-		-	-	-	#DIV/0!	-		
10	Specialties Subtotal	0502-1000	-		-	-	-	#DIV/0!	-		
11	Equipment Subtotal	0502-1100	-		-	-	-	#DIV/0!	-		
12	Furnishings Subtotal	0502-1200	-		-	-	-	#DIV/0!	-		
13	Special Construction	0502-1300	-		-	-	-	#DIV/0!	-		
14	Elevator Sub	0502-1400	-		-	-	-	#DIV/0!	-		
21	Fire Suppression	0502-2100	-		-	-	-	#DIV/0!	-		
22	Plumbing	0502-2200	-		-	-	-	#DIV/0!	-		
23	HVAC	0502-2300	-		-	-	-	#DIV/0!	-		
25	Integrated Automation	0502-2500	-		-	-	-	#DIV/0!	-		
26	Electrical	0502-2600	604,379.00		13,590.00	-	192,398.00	32%	411,981.00	9,619.90	
27	Communications	0502-2700	-		-	-	-	#DIV/0!	-		
28	Electronic Safety and Security	0502-2800	-		-	-	-	#DIV/0!	-		
31	Earthwork Subtotal	0502-3100	8,015,240.00		557,110.00	-	2,015,455.00	25%	5,999,785.00	100,772.75	
32	Exterior Improvements Subtotal	0502-3200	-		-	-	-	#DIV/0!	-		
33	Utilities Subtotal	0502-3300	-		-	-	-	#DIV/0!	-		
-	TOTAL BASE GMP CONTRACT AMOUNT		10,520,247.00		782,063.85		2,861,838.54	27%	7,658,408.46		
	CO-01	0508-001	-		-	-	-	#DIV/0!	-		
-	TOTAL CHANGE ORDER AMOUNT	0508-0000	-		-		-	#DIV/0!	-		
	TOTAL CONTRACT AMOUNT		10,520,247.00		782,063.85		2,861,838.54	27%	7,658,408.46	143,091.93	

**GENERAL CONTRACTOR PROGRESS PAYMENT
CERTIFICATION AND WAIVER (Conditional)**

PROJECT: Stoneham High School
CONTRACTOR: CONSIGLI CONSTRUCTION CO., INC.
OWNER: Symmes Maini & McKee Associates

Conditioned upon receipt of payment to be made on its progress Application for Payment No. 2 in the amount of \$ 742,960.66 for services, labor, material and equipment provided to the above-referenced Project by Contractor through 8/31/22 (the "Payment Period"), Contractor hereby:

1. CERTIFIES to Owner and any lender of Owner that, upon receipt of payment of the amount stated in the prior paragraph, Contractor will be paid in full for all services, labor, materials, equipment, and other items furnished in connection with improvements to real property on the Project for base contract work and approved Change Orders through and including the last day of the Payment Period, except for retainage and not including pending changes or claims, all in accordance with the written contract between the parties for construction of the Project.
2. WAIVES, relinquishes and dissolves all rights to any lien (including, without limitation, liens under the mechanic's lien law of any state wherein the Project may lie) upon the property, real estate, buildings, or improvement for to the extent of sums billed and paid to Contractor through the last day of the Payment Period.
3. AGREES TO INDEMNIFY, defend, and save harmless the Owner and any lender of Owner from all liens, claims and demands, and all expenses incurred, including attorneys' fees and costs of defense, on account of claims brought by anyone claiming by, through or under Contractor, for payment of any services or labor performed or material or equipment furnished in connection with improvements to real property for the Project to the extent of sums billed and paid to Contractor through the last day of the Payment Period.
4. REPRESENTS AND WARRANTS to the Owner and any lender of Owner that all laborers, subcontractors, materialmen and others providing services, labor, material, and/or equipment and all taxes and contributions of any other descriptive title in connection with the work furnished for and through Contractor have been paid in full through the last day of the Payment Period.
5. REPRESENTS AND WARRANTS that no other person or entity has any prior interest in the claims, demands, allegations or causes of action arising on its behalf on account of the work; that Contractor has the sole right and authority to execute this progress certification and waiver and received the sums specified herein; and that Contractor has not sold, assigned, transferred, conveyed, or otherwise disposed of the claims, demands or rights released hereby.

Executed as a sealed instrument this 8th day of September, 2022.

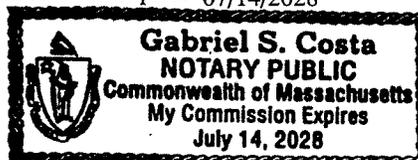
By [Signature]
(Authorized Officer)

Printed Name: Brett Kaneshiro

State of: MA 9/8/22
(Date)

Then personally appeared before me the above-named Brett Kaneshiro, who being duly sworn did say that he/she is the Project Accounting Manager of Consigli Construction Co. that the foregoing instrument was signed on behalf of said corporation by authority of its Board of Directors, and that said instrument was acknowledged to be the free act and deed of said corporation.

[Signature]
Notary Public: Gabriel Costa
My commission expires: 07/14/2028



TO OWNER: **Symmes Maini & McKee Associates**
 1000 Massachusetts Avenue
 Cambridge, MA 02138

PROJECT: **Stoneham High School**

Invoice **2**
 Draw
 Application date: **8/31/2022**
 Period ending date: **8/31/2022**

DISTRIBUTE TO:
 OWNER
 ARCHITECT
 CONTRACTOR

FROM CONTRACTOR: **Consigli Construction Co., Inc.**
 72 Sumner Street
 Milford, MA 01757

VIA ARCHITECT: **Perkins + Will**
 225 Franklin Street
 Boston, MA 02110

PROJECT NO: **2515**
 CONTRACT DATE:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown above, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1 ORIGINAL CONTRACT SUM	\$10,520,247.00
2. NET CHANGE BY CHANGE ORDERS	\$0.00
3. CONTRACT SUM TO DATE (Line 1 ± 2)	\$10,520,247.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$2,861,838.54
5. RETAINAGE:	
a. <u>5.00</u> % of Completed Work (Column D + E on G703)	\$ 143,091.93
b. <u>0.00</u> % of Stored Material (Column F on G703)	\$ 0.00
Total Retainage (Lines 5a+5b or Total in Column I on G703)	\$143,091.93
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$2,718,746.61
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 From Prior CERTIFICATE)	\$1,975,785.95
8. CURRENT PAYMENT DUE (Line 6 Less Line 7)	\$742,960.66
9. BALANCE TO FINISH INCLUDING RETAINAGE (Line 3 Less Line 6)	\$7,801,500.39

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS		
NET CHANGES by Change Order		

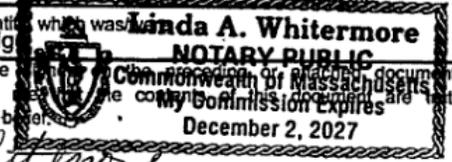
The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: **Consigli Construction Co., Inc.**

By: [Signature] Date: 9/9/22

State of: MA County of: Worcester

On this the 9 day of September, 2022, before me, Linda A. Whitermore, a Notary Public in and for the Commonwealth of Massachusetts, personally appeared [Signature], known to me to be the person(s) whose name(s) was/were in the preceding or attached document in my presence, and who swore or affirmed to the truth of the contents of the document and accurate to the best of his/her knowledge and belief.



Notary Public: [Signature]
 My Commission expires: 12/2/2027

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED:\$ 742,960.66

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:
 By: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CONTINUATION SHEET

AIA DOCUMENT G703

Detail Page 2 of 3 Pages

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

Project: **2515-01 / Stoneham High School**

Invoice **2**
 Draw
 Application date: **8/31/2022**
 Period ending date: **8/31/2022**

In tabulations below, amounts are stated to the nearest dollar.
 Use Column I on contracts where variable retainage for items may apply.

A ITEM NO.	B DESCRIPTION OF WORK	ORIGINAL BUDGET	APPROVED CHANGE ORDERS	APPROVED TRANSFERS	C SCHEDULED VALUE	D WORK COMPLETED		E MATERIALS PRESENTLY STORED (NOT IN D / E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
						FROM PREV. APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D + E + F)	% (G / C)		
1-000	Stoneham High School	1-000										
1-001	General Conditions	1-001			333,840.00	183,612.00	150,228.00		333,840.00	100.00		16,692.00
1-002	General Requirements	1-002			439,702.00	6,722.17	14,870.34		21,592.51	4.91	418,109.49	1,079.63
1-220	Temporary Fence	1-220			258,369.00	213,592.50	25,531.00		239,123.50	92.55	19,245.50	11,956.18
1-910	Consigli Payment & Perf Bond	1-910			54,274.00						54,274.00	
1-920	Builder's Risk Insurance	1-920			15,950.00						15,950.00	
1-930	General Liability	1-930			111,652.00						111,652.00	
1-940	Subcontractor Default Insuranc	1-940			115,831.00						115,831.00	
2-401	General Site Excavation Sub	2-401		-1,172,700.00	4,571,780.00	1,458,345.00	557,110.00		2,015,455.00	44.08	2,556,325.00	100,772.75
2-402	Crane Pads	2-402			10,000.00						10,000.00	
2-403	Dewatering Test/Treat/Discharg	2-403			25,000.00						25,000.00	
2-404	Verify Ext Utility	2-404			15,000.00						15,000.00	
2-405	Utility Tie in Trailer	2-405			7,500.00						7,500.00	
2-406	Video Inspect Sewer	2-406			10,000.00						10,000.00	
2-407	Asphalt Paving	2-407			20,000.00						20,000.00	
2-408	Traffic Control / Signage	2-408			10,000.00						10,000.00	
2-409	Fire Watch - Blasting	2-409			5,700.00						5,700.00	
2-410	Temp Access to Lot	2-410			25,000.00						25,000.00	
2-411	Refeed Elect to Irrigation	2-411			7,500.00						7,500.00	
2-412	Rework Ext Irrigation	2-412			15,000.00						15,000.00	
2-790	Geothermal Wells	2-790		-196,160.00	2,074,600.00						2,074,600.00	
2-792	HOLD - Additional Dewatering	2-792		100,000.00	100,000.00						100,000.00	
16-001	Electrical Subcontractor	16-001			604,379.00	178,808.00	13,590.00		192,398.00	31.83	411,981.00	9,619.90
19-001	Contingency #1	19-001			224,845.00						224,845.00	
19-002	Contingency #2	19-002		128,160.00	128,160.00						128,160.00	
24-001	ALL #1 - Temp Electricity Cons	24-001			25,000.00		5,431.25		5,431.25	21.73	19,568.75	271.56
24-002	ALL #2 - Winter Conditions	24-002			100,000.00						100,000.00	
24-003	ALL #3 - Police Details	24-003			24,000.00						24,000.00	
24-004	ALL #4 Dumpsters	24-004			9,000.00	150,000.00	159,000.00	1,494.80	1,322.60	1.77	156,182.60	140.87
24-005	Ledge/Rock remove-Tennis Court	24-005			500,000.00						500,000.00	
24-006	Over Exc/Struc Fill-Foundation	24-006			100,000.00						100,000.00	
24-007	PreBlast Permit/Survey/Monitor	24-007			35,000.00						35,000.00	
24-008	Maintain Erosion Control	24-008			25,000.00						25,000.00	
24-009	Jersey Barrier at Parking Lot	24-009			20,000.00						20,000.00	
24-010	Remove UG Obstructions	24-010			20,000.00						20,000.00	
24-011	Protect/Fill Elect Ductbank	24-011			15,000.00						15,000.00	
24-012	Fuel Costs Allowance	24-012			100,000.00						100,000.00	
24-013	Geothermal Dewatering Ponds	24-013			25,000.00						25,000.00	

CONTINUATION SHEET

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

Project: **2515-01 / Stoneham High School**

Invoice **2**
 Draw
 Application date: **8/31/2022**
 Period ending date: **8/31/2022**

In tabulations below, amounts are stated to the nearest dollar.
 Use Column I on contracts where variable retainage for items may apply.

A ITEM NO.	B DESCRIPTION OF WORK	ORIGINAL BUDGET	APPROVED CHANGE ORDERS	APPROVED TRANSFERS	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D / E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
						FROM PREV. APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D + E + F)	% (G / C)		
25-001	Contractor's Fee	25-001 188,165.00			188,165.00	37,200.22	13,980.66		51,180.88	27.20	136,984.12	2,559.04
	TOTAL	10,520,247.00	.00	.00	10,520,247.00	2,079,774.69	782,063.85	.00	2,861,838.54	27.20	7,658,408.46	143,091.93
GRAND TOTALS		10,520,247.00	.00	.00	10,520,247.00	2,079,774.69	782,063.85	0.00	2,861,838.54	27.20	7,658,408.46	143,091.93

Users may obtain validation of this document by requesting a completed AIA Document D401 - Certification of Document's Authenticity from the Licensee

2515 Stoneham High School

Type of Work: Custom

Cost Code	Tran Cat	Employee Name/ Vendor Name	Emp/Equip/Vendor	PayID/Invoice/Equip	Accounting Date	Units	Rate	Standard Cost
1-099 Riggs General Requirements								
1-099	S	Sbcntrct Riggs Contractng Inc.	3278	R-2515-01	08-22-2022			10,368.00
						Totals:	.00	10,368.00
1099 Riggs General Requirements Totals:							.00	10,368.00
1-150 Toilets								
1-150	O	Other Flush, LLC	51982	17918	07-18-2022			402.50
						Totals:	.00	402.50
1150 Toilets Totals:							.00	402.50
1-156 Safety & first aid								
1-156	O	Other Colny Hrdw Sup Co Inc	3514	INV-1076500	07-16-2022			22.22
1-156	O	Other Colny Hrdw Sup Co Inc	3514	INV-1076500	07-16-2022			132.50
1-156	O	Other Colny Hrdw Sup Co Inc	3514	INV-1076500	07-16-2022			132.50
1-156	O	Other Colny Hrdw Sup Co Inc	3514	INV-1076500	07-16-2022			22.92
1-156	O	Other Colny Hrdw Sup Co Inc	3514	INV-1076500	07-16-2022			24.48
1-156	O	Other Colny Hrdw Sup Co Inc	3514	INV-1076500	07-16-2022			75.60
1-156	O	Other Colny Hrdw Sup Co Inc	3514	INV-1076500	07-16-2022			25.64
1-156	O	Other Colny Hrdw Sup Co Inc	3514	INV-1077535	07-16-2022			49.32
1-156	O	Other Colny Hrdw Sup Co Inc	3514	INV-1077535	07-16-2022			3.08
1-156	O	Other Colny Hrdw Sup Co Inc	3514	INV-1078535	07-16-2022			7.02
1-156	O	Other Colny Hrdw Sup Co Inc	3514	INV-1078535	07-16-2022			75.60
1-156	O	Other Colny Hrdw Sup Co Inc	3514	INV-1078535	07-16-2022			5.16
						Totals:	.00	576.04
1156 Safety & first aid Totals:							.00	576.04
1-165 Permits								
1-165	O	Other Mass DEP	51763	100367535	06-15-2022			102.35
						Totals:	.00	102.35
1165 Permits Totals:							.00	102.35
1-250 Construction sign material								
1-250	O	Other Signs Plus	19095	58925	07-12-2022			236.14
1-250	O	Other Signs Plus	19095	58930	07-13-2022			601.46
1-250	O	Other Signs Plus	19095	58967	07-20-2022			434.91
1-250	O	Other Signs Plus	19095	58986	07-24-2022			508.94
						Totals:	.00	1,781.45
1250 Construction sign material Totals:							.00	1,781.45

TO OWNER: **Consigli Construction**
 72 Sumner Street
 Milford, MA 01757

PROJECT: **Stoneham High School**

Invoice: **2**
 Draw: **SC-2515-003-02a**
 Application date: **8/31/2022**
 Period ending date: **8/31/2022**

DISTRIBUTE TO:
 OWNER
 ARCHITECT
 CONTRACTOR

FROM CONTRACTOR:
Riggs Contracting Inc.
 72 Sumner Street
 Milford, MA 01757

VIA ARCHITECT:

PROJECT NO:

CONTRACT DATE: **6/6/2022**

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown above, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$258,369.00
2. NET CHANGE BY CHANGE ORDERS	\$0.00
3. CONTRACT SUM TO DATE (Line 1 ± 2)	\$258,369.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$239,123.50
5. RETAINAGE:	
a. <u>5.00</u> % of Completed Work	\$ 11,956.18
(Column D + E on G703)	
b. <u>0.00</u> % of Stored Material	\$ 0.00
(Column F on G703)	
Total Retainage (Lines 5a+5b or Total in Column I on G703)	\$11,956.18
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$227,167.32
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 From Prior CERTIFICATE)	\$202,912.87
8. CURRENT PAYMENT DUE (Line 6 Less Line 7)	\$24,254.45
9. BALANCE TO FINISH INCLUDING RETAINAGE (Line 3 Less Line 6)	\$31,201.68

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS		
NET CHANGES by Change Order		

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current

CONTRACTOR: **Riggs Contracting Inc.**

By: _____ Date: _____

State of: _____ County of: _____

On this the _____ day of _____ before me,
 proved to me through satisfactory evidence of identity, which was/were

_____ to be the person(s) whose name(s) was/were signed on the preceding or attached document in my presence, and who swore or affirmed to me that the contents of this document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public:

My Commission expires: _____

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT

AMOUNT CERTIFIED:\$ 24,254.45

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:

By: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CONTINUATION SHEET

AIA DOCUMENT G703

Detail Page 2 of 2 Pages

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

Project: **2515-03 / Stoneham High School Temp Fenc**

Invoice: **2**
 Draw: **SC-2515-003-02a**
 Application date: **8/31/2022**
 Period ending date: **8/31/2022**

In tabulations below, amounts are stated to the nearest dollar.
 Use Column I on contracts where variable retainage for items may apply.

A ITEM NO	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D + E + F)	% (G / C)		
1-000	Stoneham High School								
1-005	Mobilization	5,000.00	5,000.00			5,000.00	100.00		250.00
1-010	Materials								
1-015	Fence Panels, Posts, Bases	148,951.00	148,951.00			148,951.00	100.00		7,447.55
1-020	Gates	15,785.00		15,785.00		15,785.00	100.00		789.25
1-025	Scrim	7,975.00	7,975.00			7,975.00	100.00		398.75
1-030	Installation								
1-035	Fence Panels, Posts and Bases	52,485.00	47,236.50			47,236.50	90.00	5,248.50	2,361.83
1-040	Gates	10,453.00						10,453.00	
1-045	Scrim	17,720.00	4,430.00	9,746.00		14,176.00	80.00	3,544.00	708.80
GRAND TOTALS		258,369.00	213,592.50	25,531.00		239,123.50	92.55	19,245.50	11,956.18

Users may obtain validation of this document by requesting a completed AIA Document D401 - Certification of Document's Authenticity from the Licensee

AIA[®] Document G702[™] – 1992

Application and Certificate for Payment

TO OWNER:

Consigli Construction Co, Inc.
72 Sumner Street
Milford, Massachusetts 01757

FROM CONTRACTOR:

Marois Brothers, Inc.
115 Blackstone River Road
Worcester, Massachusetts 01607-1491

PROJECT:

Stoneham High School
149 Franklin Street
Stoneham, Massachusetts 02180

VIA ARCHITECT:
APPLICATION NO: 2
PERIOD TO: 08/31/22
CONTRACT FOR: SC-2515-001 - Sitework
CONTRACT DATE: 06/14/22
PROJECT NOS: 2515
Distribution to:

OWNER
ARCHITECT
CONTRACTOR
FIELD
OTHER

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$	<u>4,571,780.00</u>
2. Net change by Change Orders	\$	<u>0.00</u>
3. CONTRACT SUM TO DATE (Line 1+2)	\$	<u>4,571,780.00</u>
4. TOTAL COMPLETED AND STORED TO DATE (Column G on G703)	\$	<u>2,015,455.00</u>
5. RETAINAGE:		
a. 5.0% of Completed Work		
(Column D + E on G703)	\$	<u>100,772.75</u>
b. 0.0% of Stored Material		
(Column F on G703)	\$	<u>0.00</u>
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$	<u>100,772.75</u>
6. TOTAL EARNED LESS RETAINAGE	\$	<u>1,914,682.25</u>
(Line 4 Less Line 5 Total)		
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT	\$	<u>1,385,427.75</u>
(Line 6 from prior Certificate)		
8. CURRENT PAYMENT DUE	\$	<u>529,254.50</u>
9. BALANCE TO FINISH, INCLUDING RETAINAGE	\$	<u>2,657,097.75</u>
(Line 3 less Line 6)		

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$0.00	\$0.00
Total approved this Month	\$0.00	\$0.00
TOTALS	\$0.00	\$0.00
NET CHANGES by Change Order		\$ 0.00

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Marois Brothers, Inc.

By: Ralph Marois Date: September 06, 2022
State of: _____ County of: _____
Subscribed and sworn to before me this _____
Notary Public:
My Commission expires: _____

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ 529,254.50

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:

By: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

AIA[®] Document G703[™] - 1992

Continuation Sheet (page 2)

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT,

containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO.: 2

APPLICATION DATE: 08/25/22

PERIOD TO: 08/31/22

ARCHITECT'S PROJECT NO: 2515

A	B	C	D		E	F	G		H	I
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD			TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G / C)		
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED			MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G / C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
001	Mobilization	50,000.00	50,000.00	0.00	0.00	50,000.00	100.0%	0.00	2,500.00	
002	Erosion Controls	84,000.00	75,600.00	8,400.00	0.00	84,000.00	100.0%	0.00	4,200.00	
003	Clear and Grub Site	42,000.00	39,900.00	2,100.00	0.00	42,000.00	100.0%	0.00	2,100.00	
004	Site Demolition & Salvage Items	119,000.00	107,100.00	5,950.00	0.00	113,050.00	95.0%	5,950.00	5,652.50	
005	Drainage Demolition	37,000.00	33,300.00	1,850.00	0.00	35,150.00	95.0%	1,850.00	1,757.50	
006	Sewer Demolition	14,000.00	11,200.00	2,100.00	0.00	13,300.00	95.0%	700.00	665.00	
007	Water Demolition	13,000.00	11,700.00	650.00	0.00	12,350.00	95.0%	650.00	617.50	
008	Electrical Demolition	67,000.00	60,300.00	3,350.00	0.00	63,650.00	95.0%	3,350.00	3,182.50	
009	Pavement Demolition	98,000.00	88,200.00	4,900.00	0.00	93,100.00	95.0%	4,900.00	4,655.00	
010	Dust Control	65,000.00	22,750.00	19,500.00	0.00	42,250.00	65.0%	22,750.00	2,112.50	
011	Dewatering	37,000.00	5,550.00	0.00	0.00	5,550.00	15.0%	31,450.00	277.50	
012	Strip Loam for the Site Fields	38,000.00	34,200.00	3,800.00	0.00	38,000.00	100.0%	0.00	1,900.00	
013	Strip Loam for West Field Stockpile Area	191,000.00	124,150.00	0.00	0.00	124,150.00	65.0%	66,850.00	6,207.50	

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Continuation Sheet (page 3)

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.
In tabulations below, amounts are stated to the nearest dollar.
Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO.: 2
APPLICATION DATE: 08/25/22
PERIOD TO: 08/31/22
ARCHITECT'S PROJECT NO: 2515

A	B	C	D		E	F	G		H	I
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD			TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G / C)		
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED			MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G / C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
014	Haul Offsite Site Fields Loam	9,000.00	8,100.00	900.00		0.00	9,000.00	100.0%	0.00	450.00
015	Haul Offsite West Field Stockpile Area	52,000.00	33,800.00	0.00		0.00	33,800.00	65.0%	18,200.00	1,690.00
016	Layout Survey / Engineering	75,000.00	18,750.00	15,000.00		0.00	33,750.00	45.0%	41,250.00	1,687.50
017	Earthwork Cut to Fill	169,000.00	135,200.00	0.00		0.00	135,200.00	80.0%	33,800.00	6,760.00
018	Site Cut to Waste Organics	107,000.00	53,500.00	0.00		0.00	53,500.00	50.0%	53,500.00	2,675.00
019	Cut to Stockpile	97,000.00	58,200.00	29,100.00		0.00	87,300.00	90.0%	9,700.00	4,365.00
020	Borrow Fill Building to Subgrade	766,000.00	0.00	0.00		0.00	0.00	0.0%	766,000.00	0.00
021	Borrow Fill 10' Platform West/South of Building Area D	21,000.00	0.00	0.00		0.00	0.00	0.0%	21,000.00	0.00
022	E&B Perimeter Footings including Str Fill Placement	132,000.00	0.00	0.00		0.00	0.00	0.0%	132,000.00	0.00
023	E&B Interior Footings including Str Fill Placement	141,000.00	0.00	0.00		0.00	0.00	0.0%	141,000.00	0.00
024	Bckfl @ Perimeter Footing Insulation	38,000.00	0.00	0.00		0.00	0.00	0.0%	38,000.00	0.00
025	E&B Interior Electric	8,000.00	0.00	0.00		0.00	0.00	0.0%	8,000.00	0.00

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Continuation Sheet (page 4)

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT,

containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO.: 2

APPLICATION DATE: 08/25/22

PERIOD TO: 08/31/22

ARCHITECT'S PROJECT NO: 2515

A	B	C	D		E	F	G		H	I
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD			TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G / C)		
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE				MATERIALS PRESENTLY STORED (NOT IN D OR E)			BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
026	Gravel & Grade Temp Parking	39,000.00	0.00	39,000.00	0.00	39,000.00	100.0%	0.00	1,950.00	
027	Gravel and Grade Boxwood Road Area	27,000.00	27,000.00	0.00	0.00	27,000.00	100.0%	0.00	1,350.00	
028	Gravel and Grade Front Entrance areas	31,000.00	23,250.00	0.00	0.00	23,250.00	75.0%	7,750.00	1,162.50	
029	Gravel and Grade Temp Basin at Lot	37,000.00	18,500.00	18,500.00	0.00	37,000.00	100.0%	0.00	1,850.00	
030	Spread Loam at North Slope	90,000.00	0.00	90,000.00	0.00	90,000.00	100.0%	0.00	4,500.00	
031	Grade Proposed Building Subgrade	40,000.00	0.00	0.00	0.00	0.00	0.0%	40,000.00	0.00	
032	Bituminous @ Boxwood Road	21,000.00	21,000.00	0.00	0.00	21,000.00	100.0%	0.00	1,050.00	
033	Bituminous Walks at Existing School	3,500.00	3,500.00	0.00	0.00	3,500.00	100.0%	0.00	175.00	
034	Bituminous Temp Parking Lot	159,000.00	0.00	159,000.00	0.00	159,000.00	100.0%	0.00	7,950.00	
035	Bituminous 12' Wide Entrance Lane	13,500.00	0.00	13,500.00	0.00	13,500.00	100.0%	0.00	675.00	
036	Drain Materials	94,000.00	14,100.00	0.00	0.00	14,100.00	15.0%	79,900.00	705.00	
037	Drain Labor & Equipment	80,000.00	12,000.00	0.00	0.00	12,000.00	15.0%	68,000.00	600.00	
038	Sewer Materials	81,000.00	28,350.00	32,400.00	0.00	60,750.00	75.0%	20,250.00	3,037.50	

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Continuation Sheet (page 5)

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT,

containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO.: 2

APPLICATION DATE: 08/25/22

PERIOD TO: 08/31/22

ARCHITECT'S PROJECT NO: 2515

A	B	C	D		E	F	G		H	I
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD			TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G / C)		
			WORK COMPLETED							
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G / C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
039	Sewer Labor & Equipment	148,000.00	59,200.00	14,800.00		0.00	74,000.00	50.0%	74,000.00	3,700.00
040	Water Material	213,000.00	191,700.00	0.00		0.00	191,700.00	90.0%	21,300.00	9,585.00
041	Water Labor & Equipment	132,000.00	26,400.00	0.00		0.00	26,400.00	20.0%	105,600.00	1,320.00
042	Excavation and Backfill Geothermal	66,000.00	0.00	0.00		0.00	0.00	0.0%	66,000.00	0.00
043	Concrete Work at Geothermal Vault	5,000.00	0.00	0.00		0.00	0.00	0.0%	5,000.00	0.00
044	Marois Support for Geothermal Sub	17,000.00	0.00	0.00		0.00	0.00	0.0%	17,000.00	0.00
045	Grade Geothermal Area	6,000.00	0.00	0.00		0.00	0.00	0.0%	6,000.00	0.00
046	Temporary Signs and Pavement Markings	22,000.00	0.00	22,000.00		0.00	22,000.00	100.0%	0.00	1,100.00
047	E&B Electrical Duct Bank A	118,000.00	23,600.00	0.00		0.00	23,600.00	20.0%	94,400.00	1,180.00
048	E&B Electrical Duct Bank B	12,000.00	0.00	0.00		0.00	0.00	0.0%	12,000.00	0.00
049	E&B Electrical Duct Bank C	9,000.00	0.00	0.00		0.00	0.00	0.0%	9,000.00	0.00
050	E&B Electrical Duct Bank D	29,000.00	0.00	0.00		0.00	0.00	0.0%	29,000.00	0.00
051	E&B Electrical Duct Bank E	61,000.00	0.00	0.00		0.00	0.00	0.0%	61,000.00	0.00

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Continuation Sheet (page 6)

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT,

containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO.: 2

APPLICATION DATE: 08/25/22

PERIOD TO: 08/31/22

ARCHITECT'S PROJECT NO: 2515

A	B	C	D		E	F	G		H	I
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD			TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G / C)		
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED			MATERIALS PRESENTLY STORED (NOT IN D OR E)			BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
052	E&B Electrical Duct Bank H	14,000.00	0.00	0.00	0.00	0.00	0.00	0.0%	14,000.00	0.00
053	E&B Electrical Duct Bank I	5,000.00	0.00	0.00	0.00	0.00	0.00	0.0%	5,000.00	0.00
054	E&B Electrical Duct Bank J	3,000.00	0.00	0.00	0.00	0.00	0.00	0.0%	3,000.00	0.00
055	E&B Electrical Duct Bank L	2,000.00	0.00	0.00	0.00	0.00	0.00	0.0%	2,000.00	0.00
056	E&B Electrical/telephone Manholes	17,000.00	0.00	0.00	0.00	0.00	0.00	0.0%	17,000.00	0.00
057	E&B Pull Boxes	2,000.00	0.00	0.00	0.00	0.00	0.00	0.0%	2,000.00	0.00
058	Transformer Pad	4,000.00	0.00	0.00	0.00	0.00	0.00	0.0%	4,000.00	0.00
059	E&B Electric for Trailers	7,500.00	0.00	0.00	0.00	0.00	0.00	0.0%	7,500.00	0.00
060	Traffic Signal	82,780.00	20,695.00	62,085.00	0.00	82,780.00	100.0%	0.00	0.00	4,139.00
061	Dust Control	68,000.00	0.00	0.00	0.00	0.00	0.00	0.0%	68,000.00	0.00
062	Hydrseeding	16,000.00	0.00	0.00	0.00	0.00	0.00	0.0%	16,000.00	0.00
063	Trench Boxes and Plates	23,500.00	7,050.00	8,225.00	0.00	15,275.00	65.0%	8,225.00	8,225.00	763.75
064	Closeout	10,000.00	0.00	0.00	0.00	0.00	0.00	0.0%	10,000.00	0.00
065	Punchlist .	10,000.00	0.00	0.00	0.00	0.00	0.00	0.0%	10,000.00	0.00

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Continuation Sheet (page 7)

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT,

containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO.: 2

APPLICATION DATE: 08/25/22

PERIOD TO: 08/31/22

ARCHITECT'S PROJECT NO: 2515

A	B	C	D		E	F	G		H	I
			WORK COMPLETED				TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G / C)		
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD	MATERIALS PRESENTLY STORED (NOT IN D OR E)					BALANCE TO FINISH (C - G)
066	Demobilization	20,000.00	0.00	0.00	0.00	0.00	0.00	20,000.00	0.00	
067	As-Builts	5,000.00	0.00	0.00	0.00	0.00	0.00	5,000.00	0.00	
068	Barrier Gate at Boxwood	10,500.00	0.00	0.00	0.00	0.00	0.00	10,500.00	0.00	
069	Rock Probing 3 Days	10,500.00	10,500.00	0.00	0.00	10,500.00	100.0%	0.00	525.00	
070	Unsuitable Allowance 2500 CY	129,000.00	0.00	0.00	0.00	0.00	0.00	129,000.00	0.00	
071	Petroleum Contaminated Soil 500 CY	108,000.00	0.00	0.00	0.00	0.00	0.00	108,000.00	0.00	
1	General site excavation sub	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	GRAND TOTAL	\$4,571,780.00	\$1,458,345.00	\$557,110.00	\$0.00	\$2,015,455.00	44.1%	\$2,556,325.00	\$100,772.75	

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WAIVER AND PAYMENT AFFIDAVIT**GENERAL CONTRACTOR:** Consigli Construction Co, Inc. 72 Sumner Street Milford, Massachusetts 01757**SUBCONTRACTOR / MATERIAL SUPPLIER:** Marois Brothers, Inc.**PROJECT:** Stoneham High School**CONTRACT #:** SC-2515-001**Req # 2**

Total Contract	Amount	Amount Paid
Amount: \$ <u>4,571,780.00</u>	Previously	This Date: \$ <u>529,254.50</u>
	Requisitioned: \$ <u>1,385,427.75</u>	

The undersigned acknowledges that upon receipt of the \$529,254.50 and it has been paid all sums due for all labor, services, equipment or materials furnished by the undersigned or on behalf of the undersigned to or in connection with the project and the undersigned hereby releases, discharges, relinquishes and waives any and all claims, suits, bond claims, liens, and rights of lien for all work, labor, services, equipment or materials furnished or performed in connection with construction located at the project through 08/31/2022 whether such claims, demands and rights arise pursuant to a written or oral contract or otherwise. This release does not cover any retention, if any, or labor, services equipment or materials furnished after that date.

The undersigned hereby certifies, as an inducement to Consigli Construction Co, Inc. to pay funds to it under its Subcontract or Material Purchase Agreement (MPA) for work performed prior to 08/31/2022, and acknowledging that Consigli Construction Co, Inc. will rely upon such representation that all bills for labor, materials, equipment rental, taxes, fringes and benefits and all other charges arising out of performance of the Subcontract or MPA through the date above have been fully paid by the undersigned, **except as follows:**

Name	Address & Phone# & Contact Person	Amount Due
------	-----------------------------------	------------

The undersigned further agrees that if it does not promptly pay the above and furnish Consigli Construction Co, Inc. with releases (Form 2) from the above parties, then Consigli Construction Co, Inc. shall be authorized to make payment to the above by jointly payable checks and deduct the amount due from sums due Subcontractor or supplier under the Subcontract or MPA.

The undersigned warrants that all subcontractors, suppliers, equipment lessors, labor, taxes, union benefits and fringes applicable to this project have been paid in full through the date set forth above and agrees to defend, indemnify and hold Consigli Construction Co, Inc. and all sureties harmless against any loss arising from the nonpayment thereof.

The undersigned certifies or declares under the penalty of law that the foregoing is true and correct.

Executed as a sealed instrument this 6th day of September, 2022.

Subcontractor/ Material Supplier Company Name: Marois Brothers, Inc.

Subcontractor/ Material Supplier: Ralph Marois Printed Name: Ralph Marois
Duly Authorized Signature

Title: Vice President

AIA® Document G702™ – 1992

Application and Certificate for Payment

TO OWNER:

Consigli Construction Co, Inc.
72 Sumner Street
Milford, Massachusetts 01757

FROM CONTRACTOR:

Jupiter Electric, Inc.
142 B Lafayette Road
Salisbury, Massachusetts 01952

PROJECT:

Stoneham High School
149 Franklin Street
Stoneham, Massachusetts 02180

VIA ARCHITECT:
APPLICATION NO: 2
PERIOD TO: 08/31/22
CONTRACT FOR: FSC-2515-001 - Electrical
CONTRACT DATE: 06/13/22
PROJECT NOS: 2515
Distribution to:

OWNER
ARCHITECT
CONTRACTOR
FIELD
OTHER

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$	<u>604,379.00</u>
2. Net change by Change Orders	\$	<u>0.00</u>
3. CONTRACT SUM TO DATE (Line 1+2)	\$	<u>604,379.00</u>
4. TOTAL COMPLETED AND STORED TO DATE (Column G on G703)	\$	<u>192,398.00</u>
5. RETAINAGE:		
a. 5.0% of Completed Work		
(Column D + E on G703)	\$	<u>9,619.90</u>
b. 0.0% of Stored Material		
(Column F on G703)	\$	<u>0.00</u>
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$	<u>9,619.90</u>
6. TOTAL EARNED LESS RETAINAGE	\$	<u>182,778.10</u>
(Line 4 Less Line 5 Total)		
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT	\$	<u>169,867.60</u>
(Line 6 from prior Certificate)		
8. CURRENT PAYMENT DUE	\$	<u>12,910.50</u>
9. BALANCE TO FINISH, INCLUDING RETAINAGE	\$	<u>421,600.90</u>
(Line 3 less Line 6)		

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$0.00	\$0.00
Total approved this Month	\$0.00	\$0.00
TOTALS	\$0.00	\$0.00
NET CHANGES by Change Order		\$ 0.00

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Jupiter Electric, Inc.

By: Maureen Marshall Date: August 23, 2022
State of: _____ County of: _____

Subscribed and sworn to before me this
Notary Public:
My Commission expires:

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ 12,910.50

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:

By: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

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Continuation Sheet (page 2)

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO.: 2

APPLICATION DATE: 08/22/22

PERIOD TO: 08/31/22

ARCHITECT'S PROJECT NO: 2515

A	B	C	D		E	F	G		H	I
			WORK COMPLETED				TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G / C)		
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD	MATERIALS PRESENTLY STORED (NOT IN D OR E)					BALANCE TO FINISH (C - G)
1	Electrical subcontractor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	Site Lighting	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	5,000.00	0.00
101	Conduit	49,757.00	10,000.00	3,290.00	0.00	13,290.00	26.7%	36,467.00	664.50	
102	Electrical Duct Bank	129,000.00	77,913.00	0.00	0.00	77,913.00	60.4%	51,087.00	3,895.65	
103	Telecom Duct Bank	90,000.00	56,087.00	0.00	0.00	56,087.00	62.3%	33,913.00	2,804.35	
104	Primary Ductbank relocation	10,000.00	10,000.00	0.00	0.00	10,000.00	100.0%	0.00	500.00	
105	Manholes	98,600.00	0.00	0.00	0.00	0.00	0.0%	98,600.00	0.00	
106	Demo	1,000.00	0.00	0.00	0.00	0.00	0.0%	1,000.00	0.00	
107	Temp service	15,000.00	0.00	0.00	0.00	0.00	0.0%	15,000.00	0.00	
108	Temp Trailers	2,500.00	0.00	0.00	0.00	0.00	0.0%	2,500.00	0.00	
109	Temp Lighting parking lot Lights & Walkwy	3,000.00	0.00	1,500.00	0.00	1,500.00	50.0%	1,500.00	75.00	
110	Labor	0.00	0.00	0.00	0.00	0.00	0.0%	0.00	0.00	0.00
111	Site Lighting	10,900.00	0.00	0.00	0.00	0.00	0.0%	10,900.00	0.00	

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Continuation Sheet (page 3)

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containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

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APPLICATION NO.: 2

APPLICATION DATE: 08/22/22

PERIOD TO: 08/31/22

ARCHITECT'S PROJECT NO: 2515

A	B	C	D		E	F	G		H	I
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD			TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G / C)		
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE				MATERIALS PRESENTLY STORED (NOT IN D OR E)			BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
112	Conduit	41,200.00	6,800.00	0.00	0.00	6,800.00	16.5%	34,400.00	340.00	
113	Electrical Duct bank	59,514.00	0.00	0.00	0.00	0.00	0.0%	59,514.00	0.00	
114	Telecom duct bank	46,000.00	0.00	0.00	0.00	0.00	0.0%	46,000.00	0.00	
115	Primary duct bank relocation	6,800.00	5,100.00	1,700.00	0.00	6,800.00	100.0%	0.00	340.00	
116	Manholes	2,200.00	0.00	0.00	0.00	0.00	0.0%	2,200.00	0.00	
117	Demo	4,300.00	4,300.00	0.00	0.00	4,300.00	100.0%	0.00	215.00	
118	Temp Service	6,500.00	0.00	0.00	0.00	0.00	0.0%	6,500.00	0.00	
119	Temp trailers	2,100.00	0.00	2,100.00	0.00	2,100.00	100.0%	0.00	105.00	
120	Temp Lighting parking lot lights & walkways	10,900.00	0.00	5,000.00	0.00	5,000.00	45.9%	5,900.00	250.00	
121	O & M Manuals	500.00	0.00	0.00	0.00	0.00	0.0%	500.00	0.00	
122	As builts	500.00	0.00	0.00	0.00	0.00	0.0%	500.00	0.00	
123	Bond premuim	8,108.00	8,108.00	0.00	0.00	8,108.00	100.0%	0.00	405.40	
124	Submittals	1,000.00	500.00	0.00	0.00	500.00	50.0%	500.00	25.00	

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Continuation Sheet (page 4)

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containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

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APPLICATION NO.: 2

APPLICATION DATE: 08/22/22

PERIOD TO: 08/31/22

ARCHITECT'S PROJECT NO: 2515

A	B	C	D	E	F	G		H	I
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE (D+E+F)	%(G / C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD					
	GRAND TOTAL	\$604,379.00	\$178,808.00	\$13,590.00	\$0.00	\$192,398.00	31.8%	\$411,981.00	\$9,619.90

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WAIVER AND PAYMENT AFFIDAVIT**GENERAL CONTRACTOR:** Consigli Construction Co, Inc. 72 Sumner Street Milford, Massachusetts 01757**SUBCONTRACTOR / MATERIAL SUPPLIER:** Jupiter Electric, Inc.**PROJECT:** Stoneham High School**CONTRACT #:** FSC-2515-001**Req # 2**

Total Contract	Amount	Amount Paid
Amount: \$ <u>604,379.00</u>	Previously	This Date: \$ <u>12,910.50</u>
	Requisitioned: \$ <u>169,867.60</u>	

The undersigned acknowledges that upon receipt of the \$12,910.50 and it has been paid all sums due for all labor, services, equipment or materials furnished by the undersigned or on behalf of the undersigned to or in connection with the project and the undersigned hereby releases, discharges, relinquishes and waives any and all claims, suits, bond claims, liens, and rights of lien for all work, labor, services, equipment or materials furnished or performed in connection with construction located at the project through 08/31/2022 whether such claims, demands and rights arise pursuant to a written or oral contract or otherwise. This release does not cover any retention, if any, or labor, services equipment or materials furnished after that date.

The undersigned hereby certifies, as an inducement to Consigli Construction Co, Inc. to pay funds to it under its Subcontract or Material Purchase Agreement (MPA) for work performed prior to 08/31/2022, and acknowledging that Consigli Construction Co, Inc. will rely upon such representation that all bills for labor, materials, equipment rental, taxes, fringes and benefits and all other charges arising out of performance of the Subcontract or MPA through the date above have been fully paid by the undersigned, **except as follows:**

Name	Address & Phone# & Contact Person	Amount Due
------	-----------------------------------	------------

The undersigned further agrees that if it does not promptly pay the above and furnish Consigli Construction Co, Inc. with releases (Form 2) from the above parties, then Consigli Construction Co, Inc. shall be authorized to make payment to the above by jointly payable checks and deduct the amount due from sums due Subcontractor or supplier under the Subcontract or MPA.

The undersigned warrants that all subcontractors, suppliers, equipment lessors, labor, taxes, union benefits and fringes applicable to this project have been paid in full through the date set forth above and agrees to defend, indemnify and hold Consigli Construction Co, Inc. and all sureties harmless against any loss arising from the nonpayment thereof.

The undersigned certifies or declares under the penalty of law that the foregoing is true and correct.

Executed as a sealed instrument this 23rd day of August, 2022.

Subcontractor/ Material Supplier Company Name: Jupiter Electric, Inc.

Subcontractor/ Material Supplier: Maureen Marshall Printed Name: Maureen Marshall
Duly Authorized Signature

Title: Job Title

SMMA

Project Management

Town of Stoneham

New Stoneham High School

Construction Update

09.12.2022



Early Site Enabling and Concrete and Steel Work (BP #1 & BP#2)

Guaranteed Maximum Price (GMP)		CM Contingency	
GMP Amount – BP#1	\$ 10,520,247.00	CM Contingency	\$ 655,258.00
GMP Amount – BP#2	\$ 19,829,643.00	through GMP BP#2	
Expenditures	(\$ 2,861,838.54)	Expenditures	\$ 0.00
Balance through CO#2	\$ 27,933,531.14	Balance	\$ 655,258.00

Allowances		Owner's Construction Contingency	
Allowances through GMP BP#2	\$ 1,265,000.00	Owner Change Order Contingency	\$ 7,670,933.00
Expenditures	(\$ 689,000.00)	Expenditures	(\$ 895,479.68)
Balance	\$ 576,000.00	Balance	\$ 6,775,453.32



New Entrance/Exit Drive



New Temporary and Upper Parking Lots



New Building Pad Location



New Temporary and Upper Parking Lots



New Building Pad Location

FAQ – Stoneham School Building Committee – September 2022

WHAT WAS THE ORIGINAL APPROVAL OF THE PROJECT?

The project and approval by the voters at Town Meeting and by ballot in the fall of 2021, was for approximately 207,000 sf and a total cost of \$189.6M in November 2021, with \$153.4M allocated for construction.

WHAT IS MSBA'S REIMBURSEMENT TO THE TOTAL COST?

The total projected cost in November of 2021 was \$189.6 million and the MSBA reimbursement to the Town is approximately \$49.0 million. The estimated project cost to Stoneham in November 2021 was \$140.6 million.

WHAT IS THE AMOUNT OF THE TOTAL ALLOCATED TO CONSTRUCTION?

Of the total \$153.4 million was allocated for construction.

WHAT WAS THE OVERAGE AS OF APRIL 2022

The Design Development construction cost estimate in April 2022 was impacted by The supply price escalation and market conditions, resulting in an increase to the estimated construction cost of approximately \$12 million over the approved funding for the same project scope. The Stoneham School Building Committee (SSBC) worked hard to bring the project back in line with the approved budget with the goal of keeping the project on schedule and approved a total of slightly over \$12 million in difficult cuts. The Committee prioritized the following guardrails when deciding on each of the cuts:

- Educational programming
- Pre-K programming
- Net Zero building performance
- Quality and durability

WHAT WAS REMOVED FROM THE BUDGET TO KEEP THE BUDGET AT APPROVAL THUS FAR?

As of the most recent meeting, the following items were either reduced in scope or held as alternates if economic challenges recede:

- In the Design Development Phase, changes were made as follows:
 - exterior and interior finishes to be changed to be more cost effective without sacrificing durability
 - changes from moveable walls to plasterboard walls
 - change from turf to natural grass field and removal of lighting for north soccer field
 - elimination of District Offices
 - elimination of traffic light at Stevens Street
 - reduction of dugouts, athletic equipment, plantings, benches

These changes results in total reduction of \$12,730,090

- In the Construction Documents Phase, changes were made as follows:

- Deletion of remaining operable classroom partitions,
- Reduction in size of emergency generator
- change to flooring materials and toilet fixtures
- change Pre-K playground surface material
- reduce site lighting and plantings
- reuse existing granite curbing
- change retaining wall and sidewalk materials

These changes resulted in a total reduction of \$985,047

- In approving the Early Concrete & Steel Package, the following were moved to alternate status to accommodate pricing increases for this package:
 - Athletic Field House at Spartan Stadium, concession stand, bleachers, press box moved to bid alternates

These changes results in a total reduction of \$3,850,905

In addition, the Select Board re-allocated \$2,200,000 of Town ARPA funds to the high school construction budget and the SSBC re-allocated \$450,000 from the change order contingency budget to the construction budget.

WHAT HAPPENS NEXT?

The Committee is in the process of completing the 90% Construction Documents cost estimate and will be submitting the 90% Construction Documents package to the MSBA for its approval on September 28, 2022. Should the estimates continue to be impacted by the unprecedented price escalation, the SSBC will need to undertake further cost reduction strategies.

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Stoneham School Building Committee

David Bois & Marie
Christie,
Co-Chairs



FOR IMMEDIATE RELEASE

Friday, Sept. 9, 2022

Media Contact: Jordan Mayblum

Phone: 617-993-0003

Email: jordan@jgpr.net

Stoneham School Building Committee Invites Community Members to Learn More About High School Project at Stoneham Town Day

STONEHAM – Members of the Stoneham School Building Committee (SSBC) are looking forward to participating in this year’s Stoneham Town Day on Saturday, Sept. 17 on the Stoneham Town Common.

The Committee will be joined by representatives from architects Perkins+Will, construction manager Consigli Construction and project manager SMMA, and all will be available to answer questions and share updates on the construction project which began in earnest this summer.

Visitors to the booth will also have an opportunity to view renderings of the new building and to hear about the exciting aspects of the project, including the 21st-century

technology upgrades, the new STEAM and History labs, the new gymnasium and auditorium, outdoor learning areas, and a town-wide Pre-School program.

Everyone will have an opportunity to snap a construction-themed photo in the SHS Selfie Booth and younger students will have the opportunity to take part in other fun activities.

“As has been previously reported,” notes Committee Co-Chair Marie Christie, “we are anticipating the need to return to Town Meeting in January for an additional funding request. Our Committee has worked diligently over the past year to combat the ever-rising construction costs and supply-chain shortages that continue to affect our budget and that of other schools currently in the MSBA program. Committee members and vendors are eager to talk with the community and answer the questions we know are out there so that when the time comes, voters will be properly informed. We encourage Town Day participants to stop by and share their thoughts and questions.”

SSBC meetings are held twice monthly on Monday nights in person at the Stoneham Central Middle School, 105 Central Street, at 7:00 p.m. Stoneham residents can attend SSBC meetings either in person or via GoToMeeting and can find details about the meetings on the SSBC information page - #stonehamschoolbuildingcommittee or <https://www.stoneham-ma.gov/627/School-Building-Committee> .

###



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Stoneham School Building Committee

David Bois & Marie
Christie,
Co-Chairs



FOR IMMEDIATE RELEASE

Thursday, Sept. 1, 2022

Media Contact: Jordan Mayblum

Phone: 617-993-0003

Email: jordan@jgpr.net

Stoneham School Building Committee Provides Update on High School Project Progress, Potential Cost Impacts of External Pressures

STONEHAM – The Stoneham School Building Committee, led by Co-Chairs Marie Christie and David Bois, wish to provide an update on the ongoing Stoneham High School building project.

As inflationary, supply chain and workforce challenges affect the construction industry, the SSBC has learned that these are likely to result in an increase in costs beyond the contingencies planned for the project. At this time, it is too early to know the amount by which the project's costs could increase, but the SSBC is working closely with its project partners to determine and subsequently communicate those impacts to the community.

To best align with its goal of completing the project in a cost-effective and timely way, the SSBC has worked proactively to identify areas where it can pare back the new building's elements while continuing to achieve the community's core goals in building a new high school. Since April, the Committee has been working to keep the project's cost as closely aligned with the budget as possible. Through that process, the Committee's top priority has been safeguarding high school and pre-K programming, net zero energy performance and overall quality and durability. Still, the SSBC and its partners anticipate a likely cost overrun brought on by external market pressures.

If additional funding is needed to see the project through to completion, the SSBC anticipates presenting a request at a January Special Town Meeting. In the time leading up to a potential Special Town Meeting, the SSBC is committed to regularly updating and informing stakeholders about its work, beginning with Town Day on Saturday, Sept. 17. Members of the Committee will be present at the event to share the group's accomplishments to date and engage with members of the community about the future of the project.

"The School Building Committee, with the support of the consultants and the construction team, has worked diligently over the past year to maintain the project budget," Bois said. "The Committee has been balancing program, durability and energy efficiency within the approved project funding even with the unprecedented impacts of COVID on construction costs. As the project nears design completion and the start of vertical construction, the entire project team remains committed to delivering a facility that will serve Stoneham's students and residents for years to come."

Last November, voters approved a debt exclusion to finance the building of a new Stoneham High School after a nearly unanimous favorable vote by Town Meeting the month prior. At that meeting, voters expressed their strong desire to replace the aging Stoneham High School building, which has served students for more than 50 years.

The SSBC began its work in 2019 and continued its work through two years of pandemic disruptions that have continued to affect daily life. The result of that work is a new building design that incorporates 21st century classrooms and technology, a net zero energy system, stronger security measures to protect everyone inside, STEAM and history labs, a state-of-the-art auditorium, outdoor learning centers, and a town-wide pre-school program.

The SSBC continues to work with the Massachusetts School Building Authority,

Symmes, Maini, McKee, Perkins+Will and Consigli Construction to refine the project and begin the process of bringing it to fruition. The community broke ground on the project in June, signifying the beginning of work to deliver Stoneham residents a modern facility to serve students for decades to come, with a planned opening in September of 2024.

“The long-awaited High School Building Project will enable Stoneham Public Schools to provide a modern and accessible world class education, compete with other districts across our region, and prepare our students with the skills they need to pursue careers or additional education after graduation,” said Superintendent David Ljungberg. “Our state-of-the-art science and stem labs, fine art studios, athletic facilities, and theater arts programming will engage students in a well-rounded experience for decades to come, enabling Stoneham to be an even more equitable, accessible, and welcoming learning environment for all.”

While everyone remains enthusiastic about the work ahead, there is a sense of concern around how the construction industry, and in turn, new building budgets are impacted by the current volatility of materials pricing and labor struggles.

“In this unprecedented and uncertain climate we are working hard to control costs through value engineering and finding alternative solutions,” said Todd McCabe, Vice President of Project Services and Project Executive at Consigli. “The reality is we’re seeing things cost more and are more difficult to access not only on school projects but across the board - from fuel to labor and supply chain impacts on material and equipment. It is not just about spending more money though, flexibility, communication and transparency with all of our project partners will be key as we work through this process together.”

These challenges have forced the SSBC to carefully consider every aspect of the project and - based on its commitment to delivering a completed project on time and on budget, as well as to preserving in total the programming integrity of the classrooms and learning spaces - to make decisions on items within the project that could be removed, if needed. With the insights of both Perkins+Will and Consigli, the Committee has made these decisions and is considering the need to return to Town Meeting early in 2023 to ask the community for additional funds to restore some of the add alternative items back into the project.

The SSBC will be participating in Stoneham Town Day on September 17, 2022 and will

be available to share the exciting drawings and project information.

SSBC meetings are held twice monthly on Monday nights in person at the Stoneham Central Middle School, 105 Central Street, at 7:00 p.m. Stoneham residents can attend SSBC meetings either in person or via GoToMeeting and can find details about the meetings on the SSBC information page - #stonehamschoolbuildingcommittee or <https://www.stoneham-ma.gov/627/School-Building-Committee>.

###



A message from the Stoneham School Building Committee

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Georgetown, MA 01833

617-993-0003

Local officials say second debt exclusion vote may be unnecessary

Town may approach Town Meeting for additional SHS funds

By PATRICK BLAIS
Staff Writer

STONEHAM - With the latest budget busters coming in the form of inflated structural steel bids and the unexpected discovery of buried on-site ledge deposits, town officials may convene a Special Town Meeting in January to ask voters to sanction extra spending on the new high school project.

During a gathering in the Central Middle School on Monday night, members of the high school Building Committee considered the process for adjusting the new SHS' approximate \$192 million construction budget just before learning about the recent unearthing of larger than expected ledge outcroppings by the old SHS tennis courts.

The new high school, which will include 23 core classroom spaces, a brand new library, and six new science labs, will be erected by the old tennis courts by the Melrose side of the sprawling property off Franklin Street.

In a surprise twist that could make the approval process much easier, SHS project manager Joel Seeley, following-up on a re-

cent discussion with Town Administrator Dennis Sheehan, explained that state officials may allow the community to steer additional money towards the undertaking without the need for a special election.

Instead, just Town Meeting approval would be needed, and under a current timeline being explored by Seeley and SHS Building Committee members, that special assembly could be called in January of 2023. At that time, the project manager explained, the town should be in possession of final design and bid specs needed to more accurately price-out the entire high school undertaking.

"What [the Mass. Department of Revenue (DOR)] is looking for is to know the exact number you're bringing to Town Meeting for that supplementary appropriation. One of the reasons that they've listed is excessive inflation. That is exactly what has been happening here [with our project budget] and in many communities across the state," Seeley explained.

Back in Nov. of 2021, Stoneham's electorate voted overwhelmingly in

favor of passing a debt exclusion override of proposition 2 and 1/2 to pay for a new three-story high school and adjacent athletic complex at SHS' existing 35-acre site off of Franklin Street.

Homeowners, who will on average reportedly pay \$832 in new annual taxes for the next 30 years to cover the construction project, would under normal circumstances be asked to vote again on any future proposal to adjust the budget through a similar temporary tax hike.

However, based upon recent guidelines issued by the Mass. Department of Revenue (DOR), communities like Stoneham that have already okayed a debt exclusion may be allowed to reconfigure project budgets without a follow-up vote in circumstances where the extra funding is needed due to abnormal inflationary pressures.

"This application would be submitted and DOR would access it to see if it had merit to proceed [without] a second debt exclusion. Most likely, factoring in a January Town Meeting, that appli-

SHS PROJECT, A4

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Money Saving

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TEERS NEEDED AFFORDABLE HOUSING TRUST

TO CREATE & PRESERVE
AFFORDABLE HOUSING



AVE BACKGROUND OR
HOUSING, FINANCE, REAL
ATE DEVELOPMENT

TO DAVA BY SEPTEMBER 9, 2022
ONEHAM-MA.GOV

"This is a group that really touches every stage of residences in the community. Her team has been an incredible partner with the town in keeping us going over the past couple of years," later commented Select Board member Shelly MacNeill.

The transfer will reportedly leave the community with around \$1.4 million in leftover federal funds, which can be practically spent for any purpose the town sees fit.

According to Amy Palmerino, the executive director for Stoneham's public access cable television provider, the requested funding will be used to bring remote programming capabilities to the organization's main Central Street studio, which is used by citizens of all ages to record local television content free-of-charge. Besides enabling local residents to record programs that involve vir-

person or through the remote video conferencing software, Palmerino, joined by local attorney Charles Houghton, appeared before the Select Board last month to ask for help equipping the Central Street studio with the same technology needed to feature virtual guests.

"Right now, we're looking at a situation where we cannot do hybrid meetings from the studio. We're falling behind with the jump to new technology over the last two years," explained Houghton, who serves as the non-profit organization's president.

Last month, MacNeill and Select Board Chair George Seibold indicated that they were ready to vote immediately, if necessary, to support the transfer in light of StonehamTV's actions during the COVID-19 pandemic.

"I think it's worth stating again that StonehamTV preserved democracy in town during a very turbulent time

of the request.

However, Sheehan did stipulate that should the Select Board consider new requests from other town organizations or businesses for APRA funds, it would be appropriate to first implement a policy that lies out the circumstances under which such applications would be accepted and approved.

"[The town accountant] and I met with our accounting and auditing firm and we feel the town can authorize this use. The only caveat is that they want us to [stipulate] that this arrangement works out because of our existing contract with StonehamTV," the town administrator said last week.

"The warning [from our auditor] to the Select Board is that if we are going to allocate ARPA funds to other non-profits moving forward, you would need to set up an application process and a policy."

•Stoneham High project

(From Page A1)

cation would be submitted to DOR as soon as we get the final bid figures in early January," Seeley explained.

School Building Committee officials, as well as the Select Board, are considering whether to seek out supplementary funding for the project due to the ballooning cost of construction materials. Meanwhile, increases in diesel fuel prices is also driving up pricing at construction sites, where many subcontractors rely upon heavy machinery.

In an attempt to get ahead of inflation, the School Building Authority this spring elected to purchase the project's struc-

tural steel well in advance and begin earthworks and concrete pouring activity as part of early bid package.

However, earlier this month, the town officials discovered pricing for steel had nonetheless come in substantially higher than estimates. The key building component is also proving more scarce than first thought, with suppliers saying it will take two weeks longer than initially projected to procure the order.

"We were trying to soften the blow by going to an early bid. The concrete and steel and structural stuff has to go out to bid now [before it gets

even worse]," Select Board member Raymie Parker told her colleagues during a meeting in Town Hall last week.

"You kind of wish you could pump the breaks [given all this pricing uncertainty], but you can't," later vented Parker, who also sits on the School Building Committee. "We're trying everything [we can to try to contain cost increases]."

On Monday, following the brief update on discussions about a potential Special Town Meeting in January, School Building Committee members were notified that early excavation activity budgets are

STONEHAM HIGH SCHOOL
CALENDAR OF EVENTS SCHEDULE
COMMUNITY OUTREACH - JANUARY TOWN MEETING

Event	Location	Date	Time	SSBC Action	Comments
Community Events					
Farmer's Market	Town Common	Thursday, September 15, 2022	2:30PM - 6:30PM		
Stoneham Town Day	Town Common	Saturday, September 17, 2022	11:00AM - 4:00PM		
Farmer's Market	Town Common	Thursday, September 22, 2022	2:30PM - 6:30PM		
School Events					
Back to School Picnic	South Elementary School	Wednesday, September 14, 2022	6:30PM - 8:00PM		May start at 5:30PM
Back to School Night	Stoneham High School	Thursday, September 15, 2022	6:30PM - 8:00PM		
Back to School Picnic	Robin Hood Elementary School	Tuesday, September 20, 2022	6:30PM - 8:00PM		
Back to School Night	Central Middle School	Wednesday, September 21, 2022	6:30PM - 8:00PM		
Back to School Night	Colonial Park Elementary	Thursday, September 22, 2022	6:30PM - 8:00PM		
School Sports Events					
Boys V Football: Winthrop @ Stoneham	Stoneham High School Varsity Stadium	Friday, September 9, 2022	6:30PM		
Boys V Football: Melrose @ Stoneham	Stoneham High School Varsity Stadium	Friday, October 7, 2022	6:30PM		
Boys V Football: Burlington @ Stoneham	Stoneham High School Varsity Stadium	Friday, October 28, 2022	6:30PM		
Other					

Project Minutes

Project: New Stoneham High School
 Prepared by: Joel Seeley
 Re: PR Subcommittee Meeting
 Location: Remote Participation
 Distribution: Attendees (MF)

Project No.: 20033
 Meeting Date: 8/29/2022
 Time: 3:00pm
 Meeting No: 32

Attendees:

PRESENT	NAME	AFFILIATION
✓	Sharon Iovanni	Chair PR Subcommittee, Community Member
✓	Marie Christie	Co-Chair School Building Committee
✓	Nicole Nial	School Committee Member
✓	Raymie Parker	Select Board Member
	Lisa Gallagher	Community Member, School Secretary, Past member of Middle School Building Committee
✓	David Bois	Co-Chair School Building Committee
✓	David Ljungberg	Assistant Superintendent of Schools
	Bryan Lombardi	Principal
	Dennis Sheehan	Town Administrator
✓	Jordan Mayblum	John Guilfoil PR
✓	Brooke Trivas	Perkins and Will
✓	Elizabeth Dame	Perkins and Will
	Kristy Lyons	Consigli
	Todd McCabe	Consigli
	Mark Stafford	SMMA
	Robert Smith	SMMA
✓	Joel Seeley	SMMA

Item #	Action	Discussion
32.1	Record	<p>Prepare for January 2023 Town Meeting</p> <p>Community Outreach program to be developed similar to the work of the PR Subcommittee leading up to the 2021 Town Meeting Vote.</p> <ol style="list-style-type: none"> 1. Press Release <ol style="list-style-type: none"> a. S. Iovanni introduced Jordan Mayblum of John Guilfoil PR who will assist in messaging b. S. Iovanni reviewed the 8/24/22 Stoneham Independent article on the 8/22/22 SSBC meeting, attached. The group thought the article in general was accurate, except the statements regarding ledge contributing to the overage, which needs to be corrected.

Item #	Action	Discussion
		<ul style="list-style-type: none"><li data-bbox="630 394 1437 661">c. S. Iovanni reviewed a draft press release, attached. J. Mayblum to refine the draft to be submitted to the Stoneham Independent by 9/1/22 for publication 9/7/22. Messaging to be positive, SSBC doing everything it can to keep the project on budget and schedule without sacrificing educational and community goals, will need to come back to Town Meeting, many other communities in same situation, ledge not increasing the project budget and the excessive inflation could not be planned for.<li data-bbox="532 682 792 716">2. 9/17/22 Town Day<ul style="list-style-type: none"><li data-bbox="630 730 1409 764">a. L. Gallagher sent Google.docs sign-up sheet to SSBC members.<li data-bbox="630 772 1421 840">b. D. Ljungberg indicated school department will bring tents, banner and poster boards from the groundbreaking ceremony.<li data-bbox="630 848 1377 882">c. L. Dames will add interior rendering poster boards for display.<li data-bbox="630 890 1349 957">d. K. Lyons to bring hardhats, tools and backdrop for children photographs.<li data-bbox="630 966 1377 999">e. B. Trivas will review if a virtual walkthrough can be developed.<li data-bbox="630 1008 1258 1041">f. Show the construction progress, maybe slide show<li data-bbox="630 1050 1068 1083">g. Meet the Architect and Contractor<li data-bbox="532 1117 841 1150">3. Back to School Nights<ul style="list-style-type: none"><li data-bbox="630 1165 1409 1232">a. D. Ljungberg sent dates for the Back to School Nights, J. Seeley added to the Calendar of Events, attached.<li data-bbox="532 1245 885 1278">4. Current Market Conditions<ul style="list-style-type: none"><li data-bbox="630 1293 1328 1360">a. B. Trivas shared a Current Market Conditions PowerPoint developed by P&W, attached.<li data-bbox="630 1369 1323 1436">b. J. Seeley to follow up with K. Lyons to provide additional Construction Market Conditions documentation.<li data-bbox="630 1444 1416 1512">c. B. Trivas to forward MSBA listing of building cost per square feet projects, Stoneham is within the average.<li data-bbox="532 1545 847 1579">5. Cost Control Measures<ul style="list-style-type: none"><li data-bbox="630 1593 1432 1661">a. J. Seeley issued a list of the Cost Control Measures undertaken by the SSBC, attached.<li data-bbox="630 1669 1425 1736">b. J. Seeley issued a Summary of the DD and 60% CD VE Items that the SSBC has approved, attached.

Item #	Action	Discussion
		<ul style="list-style-type: none">6. Town Meeting Appropriation Request<ul style="list-style-type: none">a. SSBC needs to be very clear on what is being asked for, how much is being asked and why they are asking.7. Website<ul style="list-style-type: none">a. A separate project website was discussed. The Subcommittee decided to remain with the current Town of Stoneham website.8. PAC Re-activation<ul style="list-style-type: none">a. N. Nial will reach to the PAC to reactivate.
32.2	Record	Next PR Subcommittee Meeting: September 6, 2022 at 3:00 pm, remote.

Encl: 8/24/22 Stoneham Independent article on the 8/22/22 SSBC meeting, draft press release, Calendar of Events, Current Market Conditions PowerPoint, Cost Control Measures, Summary of the DD and 60% CD VE Items
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

Cost Control Measures Undertaken by SSBC

Since the development of the project and approval by the voters at Town Meeting and by ballot in the fall of 2021, escalation and market conditions have resulted in significant (and unpredicted) increases in construction costs. The project was approved at approximately 207,000 sf and a total cost of \$189.6M in November 2021, with \$153.4M allocated for construction.

The Design Development construction cost estimate in April 2022 was impacted by this escalation, resulting in an increase to the estimated construction cost of approximately \$12 million over the approved funding for the same project scope. The Stoneham School Building Committee (SSBC) worked hard to bring the project back in line with the approved budget with the goal of keeping the project on schedule and approved a total of slightly over \$12 million in difficult cuts. The Committee prioritized the following guardrails when deciding on each of the cuts:

- Educational programming
- Pre-K programming
- Net Zero building performance
- Quality and durability

The 60% Construction Documents cost estimate in June 2022 continued to be impacted by the significant market escalation and indicated the construction cost was \$3.6 million over the approved budget. To address this overage, the Stoneham Select Board voted to allocate \$2,200,000 of ARPA funds to the construction budget of the high school project and the SSBC re-allocated \$450,000 from the Owner's Construction Contingency budget to the Construction Budget, in addition to undertaking another series of cuts to the project scope, still maintaining the guardrails noted above.

The site work construction commenced in June 2022 and the concrete and structural steel subcontractor bids were received in July 2022. The project continued to be impacted by the current market escalation, with the bids being \$2.9 million over budget. To address this overage, the SSBC has made the difficult decision to cut the Spartan Stadium Building, housing locker rooms, concession stand, bleachers and press box from the project. The construction manager will continue to obtain bids for this work, but the SSBC will only be able to include the Spartan Stadium Building in the project if the rest of the project bids received are significantly below budget.

The SSBC is in the process of completing the 90% Construction Documents cost estimate and will be submitting the 90% Construction Documents package to the MSBA for its approval on September 28, 2022. Should the estimates continue to be impacted by the unprecedented price escalation, the SSBC will need to undertake further cost reduction strategies.

At their August 15, 2022 meeting, the SSBC voted to request a Special Town Meeting be held in January 2023, after all the bids have been received for the remaining work, for the purposes of requesting a supplemental appropriation for the construction bid overages, including Spartan Stadium, if needed.

Summary of Cost Control Measures

Design Development Phase

\$ 3,285,539	Building Exterior Change Building exteriors to masonry, double glazed windows, eliminate vertical sunshades and reduce wall insulation.
\$ 4,344,985	Building Interior Reduce operable classroom partitions, change flooring materials and fume hood types. Modify storm drain piping, HVAC heat recovery units and diffusers and reduce lighting controls and fixtures. Eliminate District Offices and re-configure PreK program.
\$ 5,099,568	Site Work Change North soccer field to natural grass with no sports lighting, delete traffic light at Stevens Street, School entrance traffic light and entry drive to remain as-is, reduce dugouts, athletic equipment, trees, plantings, benches and geothermal wells.
<u>\$ 12,730,090</u>	Total Reduction

60% Construction Documents Phase

\$ 482,442	Building Interior Delete remaining operable classroom partitions, reduce size of emergency generator, change flooring materials and change toilet fixtures type.
\$ 502,605	Site Work Change PreK playground surfacing material, reduce site lighting, reuse existing granite curbing, change retaining wall and sidewalk materials, and reduce trees and plantings.
<u>\$ 985,047</u>	Total Reduction

Early Concrete and Steel Package

\$ 3,850,905	Site Work Delete Spartan Stadium building, bleachers and press box and bid as an alternate.
<u>\$ 3,850,905</u>	Total Reduction

Greater Boston Area Construction

market update: Q2 - 2022

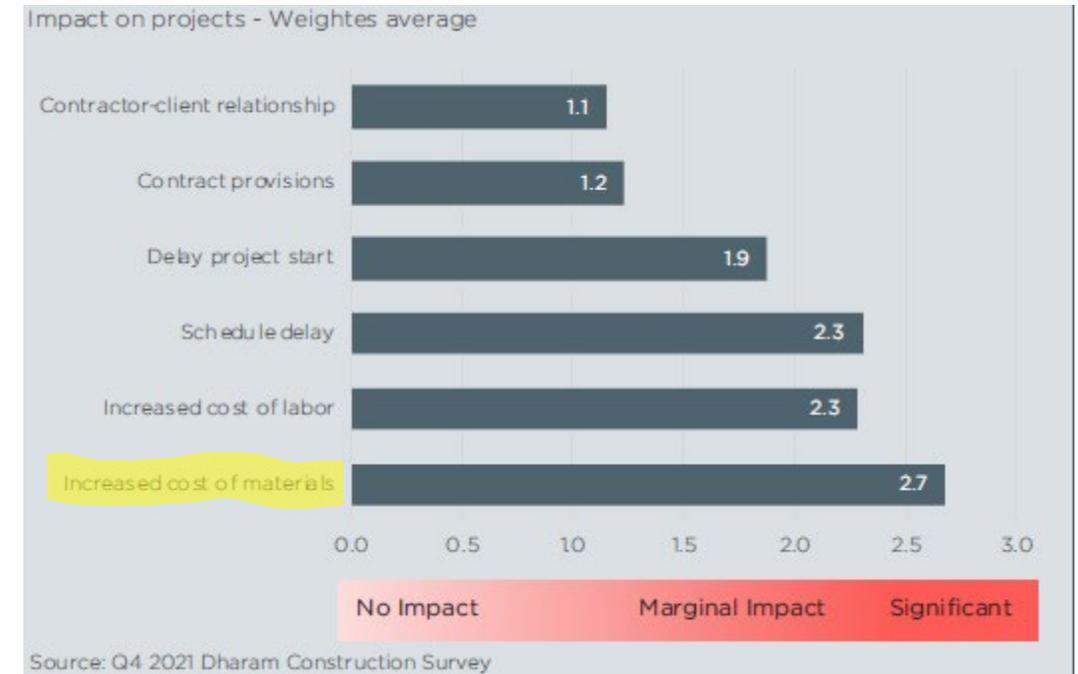
Construction Materials Volatility: NAIOP & Supply Chain – Feb 10, 2022

- **Yossi Sheffi, MIT & Author on Supply Chain**
- 'just in time delivery' prone to supply chain interruptions, rapid shortages
- Uncertainty has led to hoarding of materials

- **Lisa Wieland, CEO Massport**
- Shortages of staffing across all industries
- 30% increase in consumer demand during the pandemic

- **Rob Cantalando, Skanska**
- **Leadtimes:**
- AHU's once 12-16 weeks, now 30-45 weeks
- Bar joists, once 8-12 weeks, now 30-42 weeks
- Polyiso Insulation once in stock, now 40 weeks

- **Expect 6-12 months for return to normalcy in supply chain delivery**



2022 1Q

FIRST QUARTERLY

COST REPORT

Construction starts are once again increasing after a slowdown in the fourth quarter of 2021. But labor shortages continue, and after a brief decline, materials prices are again climbing, caused partially by the war in Ukraine. The first quarterly cost report dives deeper into these trends, alongside an overview of ENR's cost indexes and methodology, the general economic outlook and the quarterly confidence index, which shows executives are expressing cautious optimism in looking toward the future.

Economics p.51 • Confidence Index p.55 • Equipment p.59 • Materials p.60 • Labor p.68 • Methodology p.84 • Indexes p.87

CONSTRUCTION MATERIALS PRICE MOVEMENT IN 2022

		AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.
AGGREGATES	MONTHLY % CHG.	+0.2	+0.1	-0.1	+0.3	-0.2	+4.0	+1.6
	ANNUAL % CHG.	+4.1	+4.3	+4.6	+4.6	+4.1	+6.8	+7.9
ALUMINUM SHEET	MONTHLY % CHG.	+3.8	+3.1	+4.3	+2.1	-7.3	+3.3	+7.0
	ANNUAL % CHG.	+34.0	+32.8	+39.5	+41.9	+26.7	+28.0	+34.7
ASPHALT PAVING	MONTHLY % CHG.	+0.5	+0.1	+0.5	-0.1	+1.1	+9.2	+1.9
	ANNUAL % CHG.	+5.5	+5.7	+6.7	+6.5	+8.2	+8.2	+8.6
CEMENT	MONTHLY % CHG.	+0.6	+0.2	+0.1	-0.5	+0.2	+3.4	+0.3
	ANNUAL % CHG.	+4.5	+4.6	+4.7	+4.3	+4.5	+7.5	+7.6
CONCRETE PIPE	MONTHLY % CHG.	+1.0	+0.8	+3.5	+0.8	+4.1	0.0	+1.2
	ANNUAL % CHG.	+4.5	+4.4	+9.2	+11.0	+14.9	+13.3	+16.2
COPPER PIPE	MONTHLY % CHG.	+0.2	-0.2	-0.1	+1.3	-2.5	+1.9	+0.9
	ANNUAL % CHG.	+38.0	+35.0	+33.7	+32.8	+22.0	+21.1	+20.8
DIESEL FUEL	MONTHLY % CHG.	-1.4	+3.7	+11.9	-2.0	-5.4	+5.0	+14.3
	ANNUAL % CHG.	+68.7	+88.3	+99.7	+82.4	+54.4	+56.4	+57.5
FABRICATED STEEL	MONTHLY % CHG.	+3.4	+2.4	+1.8	+2.8	+1.6	+0.8	+1.2
	ANNUAL % CHG.	+33.2	+36.3	+39.3	+42.5	+43.2	+42.3	+39.8
GYPSUM PRODUCTS	MONTHLY % CHG.	+0.5	+0.2	+1.6	+0.1	+0.2	+4.7	-1.2
	ANNUAL % CHG.	+22.4	+22.7	+24.5	+20.5	+20.7	+22.5	+20.3
LUMBER, SOFTWOOD	MONTHLY % CHG.	-22.4	-4.6	+6.5	+6.0	+24.4	+24.7	+5.2
	ANNUAL % CHG.	-9.4	-31.3	-20.1	+3.2	+13.0	+20.8	+22.2
PLYWOOD	MONTHLY % CHG.	-23.4	-20.2	+4.4	+4.0	+2.6	+18.1	+5.5
	ANNUAL % CHG.	+28.8	-6.1	+1.0	+9.4	+14.2	+24.3	+22.2
PVC PRODUCTS	MONTHLY % CHG.	+2.7	+1.2	+2.9	+1.7	+1.4	+1.6	+1.3
	ANNUAL % CHG.	+30.1	+29.9	+31.2	+32.7	+34.6	+35.6	+35.6
READY-MIX CONCRETE	MONTHLY % CHG.	+2.1	0.0	-0.4	+0.9	+0.4	+1.9	+0.8
	ANNUAL % CHG.	+6.0	+5.3	+5.2	+7.2	+6.8	+8.8	+8.2
SHEET METAL	MONTHLY % CHG.	+3.2	+0.4	+1.8	+2.1	+2.1	+0.8	+1.9
	ANNUAL % CHG.	+17.0	+17.5	+19.5	+22.1	+24.7	+26.2	+25.7
EQUIPMENT	MONTHLY % CHG.	+0.3	+0.5	+3.4	+0.4	+0.8	+0.3	+0.1
	ANNUAL % CHG.	+4.3	+4.8	+8.3	+8.8	+9.4	+8.2	+8.0

SOURCE: BUREAU OF LABOR STATISTICS. MONTHLY AND YEAR-TO-YEAR PERCENT CHANGES FOR PRODUCER PRICE INDEXES FOR LATEST EIGHT-MONTH PERIOD.

the US construction industry is expected to grow in 2022 by 4.5%

US Bureau of Economic Analysis

“To put it simply, prices in 2022 will challenge the peak prices of 2021.”

John Anton, director of steel at S&P Global Market Intelligence.

Construction Materials & Volatility:

Category	Leadtime 12 month change	Leadtime Forecast 6-12mos	Price 12 month change	Price Forecast 6-12mos	Comments
Roofing products	↑	→	↗	↗	Roofing supply chains remain constrained as record demand continues. Polyiso Insulation is the most challenging material to secure with lead times at 52 weeks. Many projects are substituting EPS and XPS (alternate types of insulation) in place of polyiso, so lead times for these forms of polystyrene are extending as well. In addition, glass mat coverboard supply chains are being stretched thin. Expect lead times of 5 to 6 months in certain markets. Prices continue to escalate. A 5 to 10 percent increase in roofing materials is expected this year.
Structural steel	↗	→	↑	↗	Steel pricing appeared to plateau at the end of 2021 and in the early part of this year, but many analysts were looking for pricing to fall in 2022. However, steel pricing is again on the rise due in part to disruptions in raw materials originating from the Russia/Ukraine region. Lead times are steady but may start to increase if raw material constraints worsen.
Architectural Interiors (ceilings, drywall, metal studs, flooring, paint, etc.)	↗	→	↗	↗	Interior materials continue to escalate. Armstrong announced a 10 percent increase on ceiling suspension systems effective January 31 and a 12 percent increase on suspended ceiling panels effective January 3. USG announced a 30 percent increase on drywall effective January 3. Metal studs have been quiet, but with steel on the rise again, there is some risk going forward. Many companies have announced insulation price increases: Johns Manville (25 percent on mineral wool products effective May 1), Rockwool (going from 12 percent on April 1 to 15 percent on May 16 for mineral wool product), Hunter (12 percent on polyiso insulation effective February 1), DuPont (8 percent on extruded polystyrene [XPS] effective Jan 4). The most significant lead time continues to be with polyiso, which remains in the 48-52 week range.
Wood-based building materials (lumber, MDF, wood floors, finish material)	↗	→	↔	↘	Both dimensional lumber and panels are declining quickly. Dimensional lumber is down 25 percent since it peaked in early March 2022. Panels are down 21 percent since the March peak. Some analysts are predicting this will be short-lived, however, as housing starts continue at the blistering pace of 1.793 million (annualized) according to NAHB's March report.
Doors and Hardware	↗	→	↗	→	Door hardware manufacturers have announced increases in the range of 5-11 percent during the first quarter of 2022. In addition, lead times continue to extend, with electronic access hardware being the most troublesome category. Semiconductor shortages are causing lead times to extend out to at least 20-25 weeks.

Category	Leadtime 12 month change	Leadtime Forecast 6-12mos	Price 12 month change	Price Forecast 6-12mos	Comments
Lab casework and fume hoods	↗	↘	↗	→	Material inputs to lab casework (steel and resins) have stabilized from an availability point of view. Lead times have receded from 26 weeks to 18 weeks. Compared to last fall, pricing is up in the 25-35 percent range, mostly driven by escalating steel and resins. Now that steel is escalating once again, there is risk of further price escalation going forward.
Appliances	→	↘	↗	→	Demand for appliances remains high, and lead times are extended. In addition to semiconductor shortages, the appliance industry is challenged by port issues and distribution (trucking) bottlenecks. Some stabilization is expected in the short term, but significant relief is not expected until the latter half of 2022.
Elevators, escalators, moving walks	↗	→	↗	→	Most of the major elevator manufacturers are communicating annual material cost increases in the range of 7-10 percent, which will translate to 3-5 percent price increases on the total scope for the full year. Standard lead times have increased two to four weeks on average because of material and component supply chain challenges ranging from metals to electrical components and semiconductors. At least one major manufacturer is forecasting lead time and price increases above these ranges.
Plumbing and Drainage (includes fixtures)	↑	↑	↗	↗	This quarter we added below-grade drainage pipe and materials—including PVC, ductile iron pipe (DIP), reinforced concrete pipe (RCP) and precast concrete drainage structures—to this category. Due to reduced manufacturing capacity, there is a national shortage of these materials. PVC and DIP lead times have increased significantly and are currently in the range of eight to 12 months. RCP lead times are a minimum of three months, and specialty items like fire hydrants are running six to 12 months. Above-grade plumbing, valve and fitting inventory and lead times are stable. Distributors are striving to increase inventory to protect against stock outs in the face of continued strong demand. The war in Ukraine has driven up the price of raw materials and energy, which has resulted in a flood of price increases on all items since the beginning of March. More than 200 manufacturers have announced price increases since the beginning of 2022 averaging 7-10 percent.
High Purity Process Pipe, Valves and Fittings (PVF)	↑	↗	↗	↗	This quarter we are adding high purity PVF due to the numerous semiconductor, pharmaceutical, biotech and higher education projects that require these materials. The demand is extremely strong, pushing lead times of high purity PVF as high as 44-56 weeks. Due to the war in Ukraine, the cost and availability of nickel has spiked, resulting in significant price escalation in this category.

Construction Update: Q2 2022

- pipeline of construction projects is led again by life science, and also includes pent up demand for healthcare and higher education. This pipeline is strong and loaded with real prospects that are moving forward.
- Supply chain issues continue in many of the products that contribute to commercial construction. These factors coupled with rising interest rates by the Federal Reserve create the uncertainty in the moment.
- Either way, this will take time to effect the local construction market. The current conditions will likely continue through the next few months and likely start to adjust by year end.



Construction Update: Q2 2022

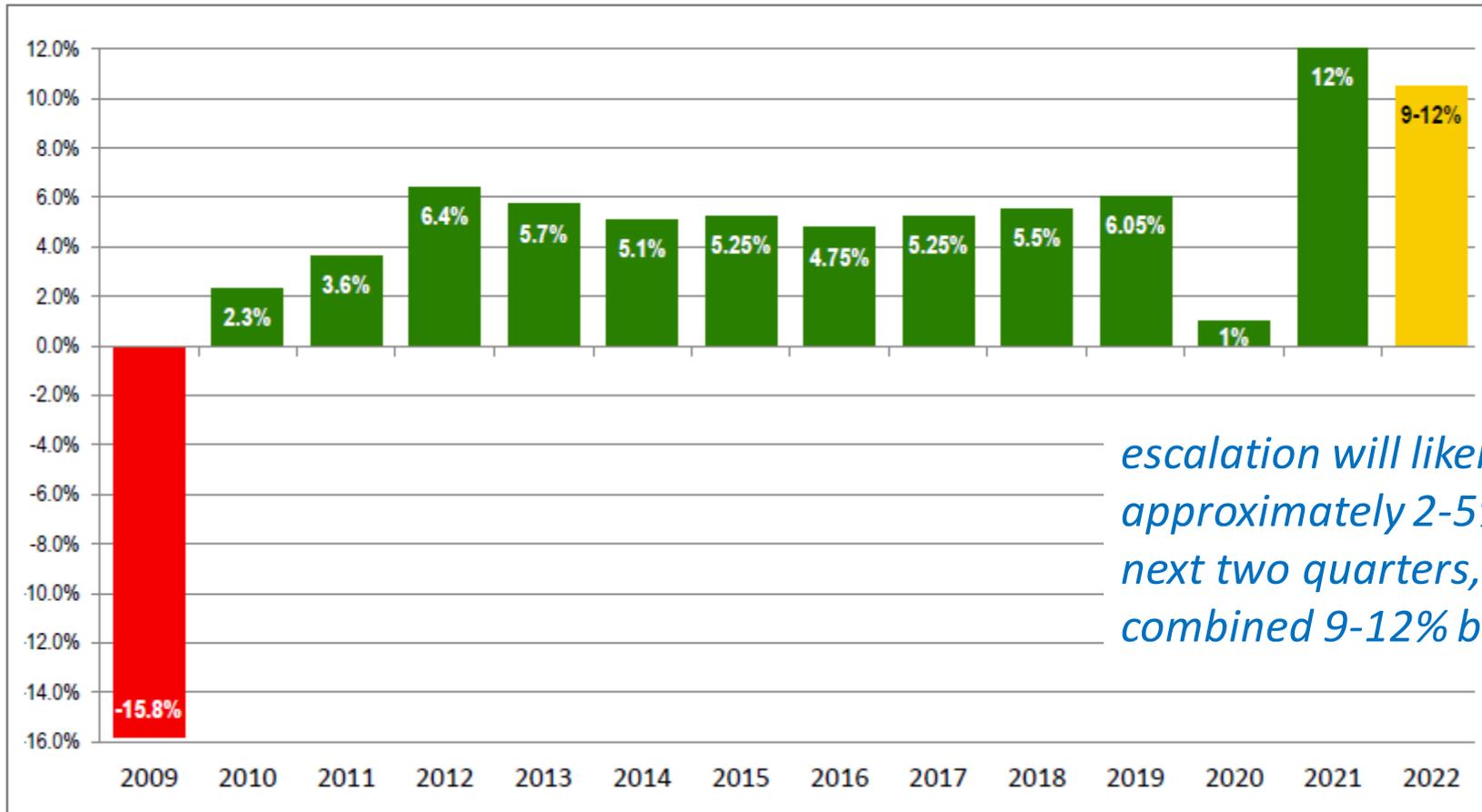
Subcontractor feedback:

- continued to see material escalation impacting bid pricing.
- Many subs report that were absorbing these material increases in 2021 are no longer doing so as they look to make themselves whole.
- labor market is very tight, with particularly mechanical subcontractors being selective with their bidding activity
- will be looking to pass along the material costs and will be qualifying any concerns over availability of certain materials in their proposals.



Construction Update: Q2 2022

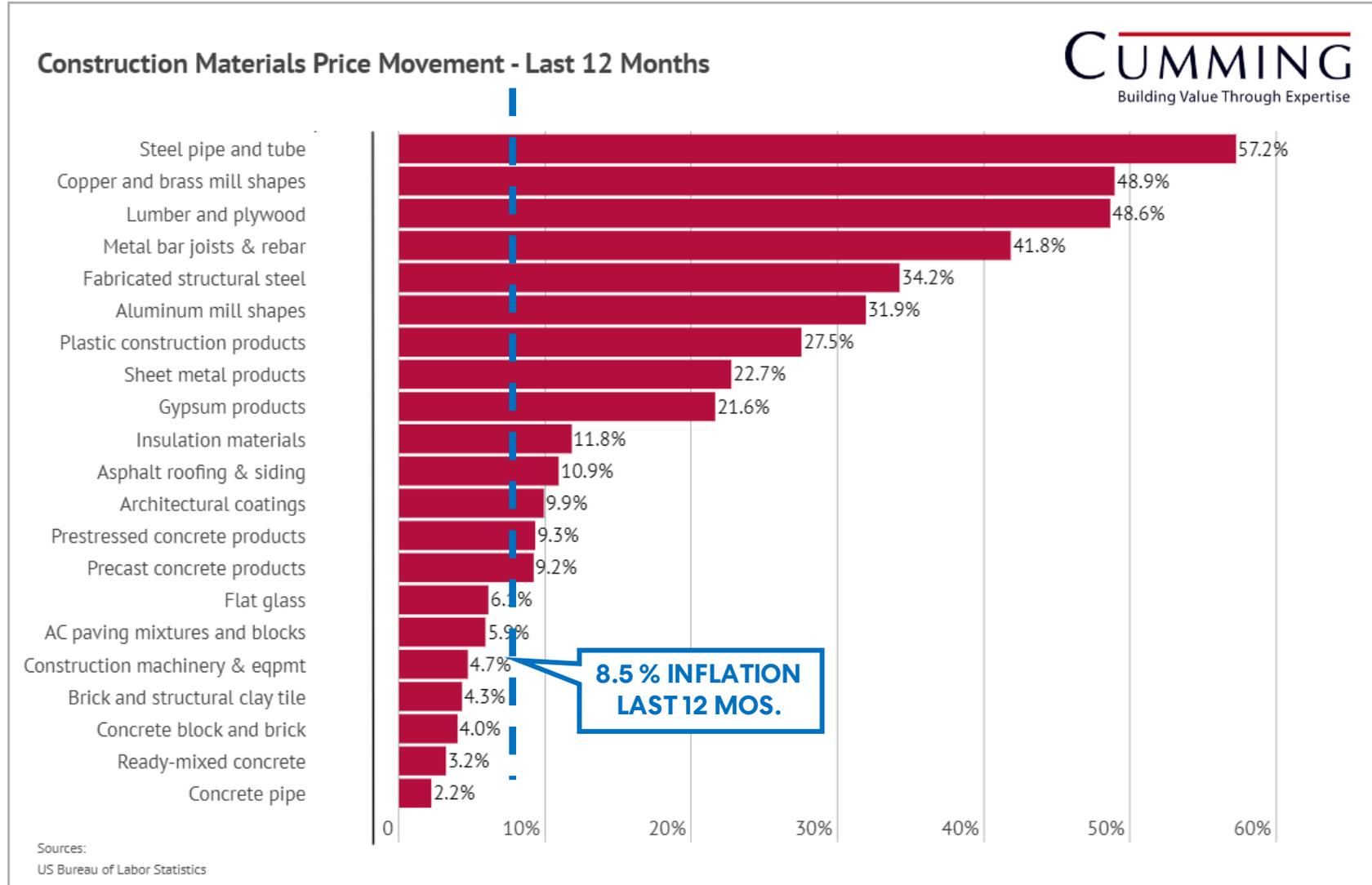
Greater Boston Area Year to Year Local Escalation



escalation will likely continue to rise approximately 2-5% throughout the next two quarters, resulting in a combined 9-12% by year end.

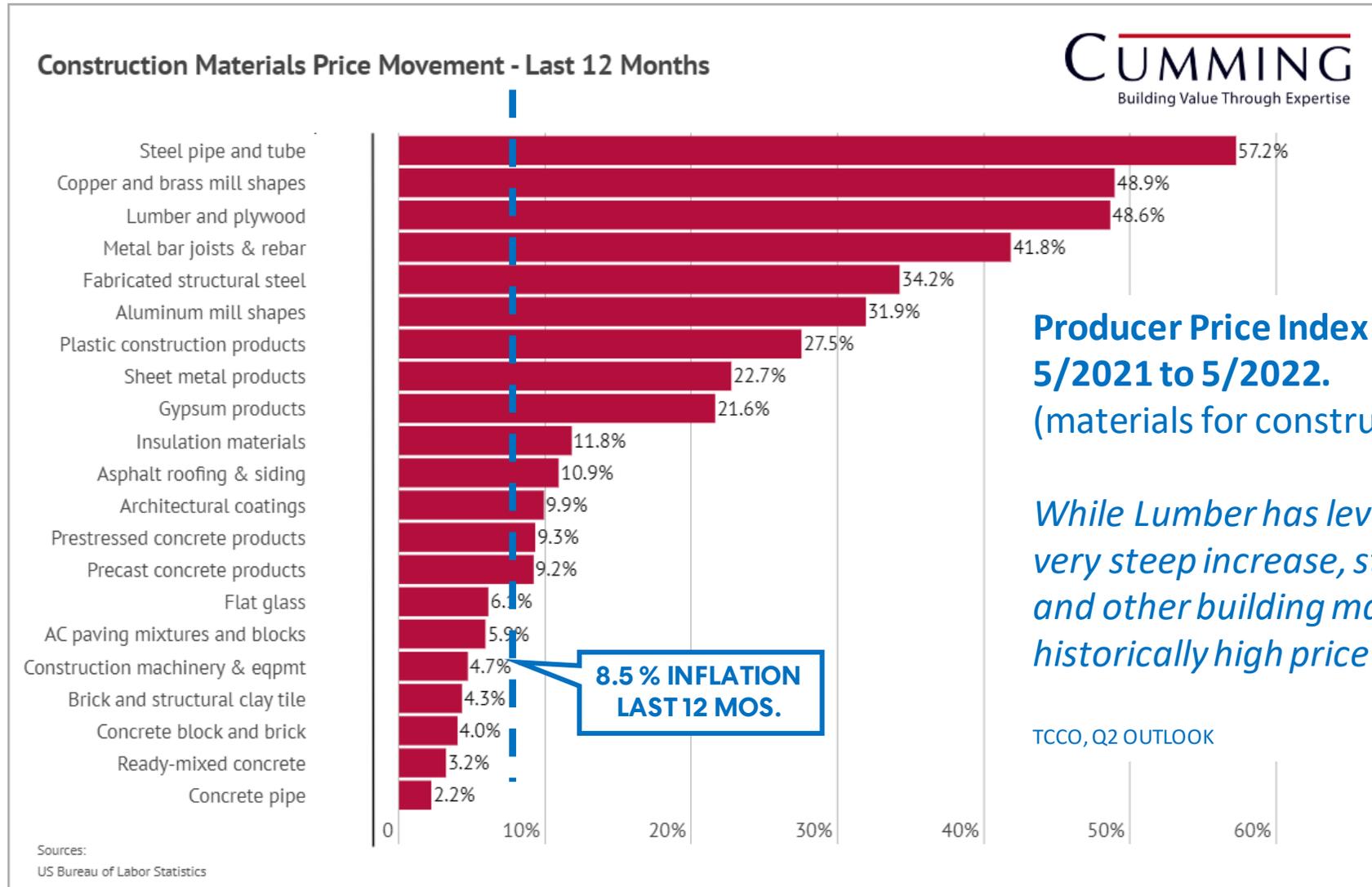
TCCO, Q2 OUTLOOK

Construction Update: Q2 2022



Technical Update: August 22, 2022

Construction Update: Q2 2022

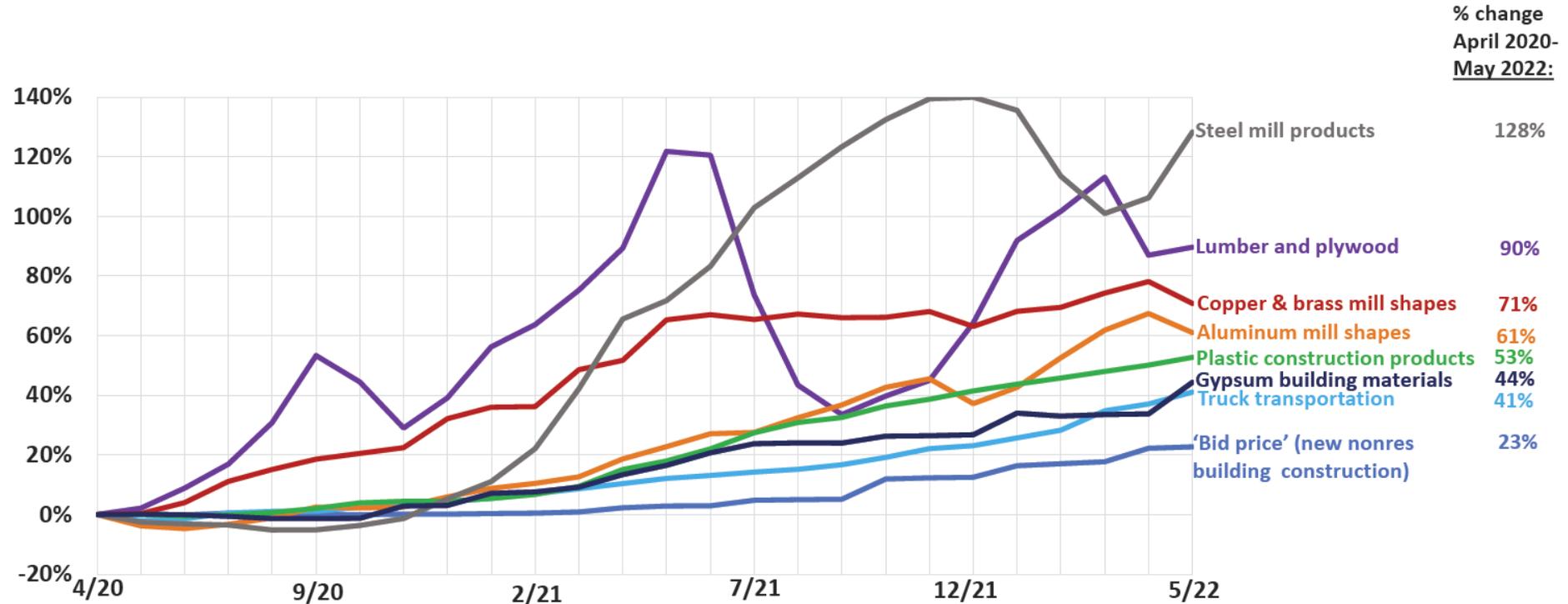


Technical Update: August 22, 2022

Construction Update: Q2 2022

PPIs for construction bid prices and selected inputs

cumulative change in PPIs, April 2020–May 2022 (not seasonally adjusted)



7 | Source: Bureau of Labor Statistics, producer price indexes, www.bls.gov/ppi

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Construction Update: Q2 2022



Q2 2022

- MEP equipment manufacturers continue to publish price increases. Some recent announcements have been in the +10% to +25% range.
- Electrical equipment manufacturers have unprecedented lead times, not only a result of parts shortages, but also due to huge market demand.
- Electrical distribution products are severely impacted by high demand, HVAC manufacturers are reporting significant production delays due to long lead times electrical components.

Estimated Equipment Lead Times (Varies due to Equipment Sizing)

	Previous Report Q1 2022	Current Report Q2 2022
Cooling Towers	22 - 24 wks	20 - 30 wks
Chillers	16 - 35 wks	16 - 35 wks
Air Handling Units	14 - 70 wks	14 - 55 wks
Generators	19 - 40 wks	20 - 60+ wks
Switchgear	20 - 52 wks	20 - 52 wks
Uninterruptible Power Supply	16 - 24 wks	22 - 30 wks

Construction Update: Q2 2022

TURNER CONSTRUCTION MARKET LEAD TIME STUDY

No delays to <2 weeks 2 to 4 week delays 4+ weeks of delay			Q2 2022
Item Description	Typical Lead Time	Current Lead Time	
CONCRETE			
Wood Materials	1 week	1-2 weeks	
Wire Mesh Products	2 weeks	2-3 weeks	
Formwork Accessories	1 week	2 weeks	
Insulation Products	1-2 weeks	2-3 weeks	
Stud Rails	3-5 weeks	4 weeks	
Reinforcing Material	1 week	2-3 weeks	
Post Tension Material	3-5 weeks	6-8 weeks	
STRUCTURAL STEEL			
Decking	16 weeks	10-12 weeks	
Small Joists	16 weeks	9 months	
Large Joists	16 weeks	10 months	
W-Sections (fab'd)	5-6 months	8-10 months	
Steel plate	4-6 weeks	12 weeks	
EARTHWORK & SPECIAL FOUNDATIONS			
Steel Sheeting (Overseas)	12 weeks	cold rolled: 8 months+ hot rolled: 8 months+	
Soil Disposal Facilities Availability	4 weeks	6 weeks but limited supply	
Ductile Iron Pipe/Fittings & ADS (HDPE Pipe)	1 week	8-16 weeks	
Plastic Conduit/Pipe	1 week	12-16 weeks	
Precast	1-2 weeks	2-4 weeks	
Casting (Frame & Covers)	2-3 weeks	4-8 weeks (City of Boston polymer handhole covers are not available, vendor stopped selling them - 4.5 month lead time.)	
ROOFING			
Insulation	4-6 weeks	8-12 months	
TPO Membrane	1-2 weeks	6-8 months	
EPDM Membrane	2-3 weeks	6-8 months	
PVC Membrane	2-3 weeks	3-4 months	
Adhesives	1-2 weeks	2-3 months+	
Fasteners	1-2 weeks	6 months	
Metal Coping/Flashing	A few days	1-2 months	
AVB	A few days	2 months	
DOORS, FRAMES & HW			
Stile and Rail Wood doors	8 weeks	24 weeks +	
Flush Wood Doors	3-4 weeks	24 weeks	
Residential Grade Doors and Prehungs	7-9 weeks	10-14 weeks	
Hollow Metal Frames	4-6 weeks	8-10 weeks	
Finish hardware	6-8 weeks	10-12 weeks	
Electrified Hardware	6-8 weeks	24 weeks	
EXTERIOR WALL & INTERIOR GLASS			
Aluminum Extrusions	10-12 weeks	24-30+ weeks	
Glass	12-16 weeks	16-18 weeks	
Laminated Glass	3 weeks	7 weeks	
Mineral Wool	2-3 weeks	16-20 weeks	
Steel Shapes & Coil	4 weeks	18-20 weeks	
PVC Extrusions	10-12 weeks	16-20 weeks	
Silicon Gaskets	6 weeks	10-12 weeks	
Cladding (Alum Plate + Sheet)	4-6 Weeks	14-16	
Silicon, Hardware, General	4-6 Weeks	8-12 weeks	
Paint	2-3 Weeks	10-12 Weeks	

Item Description	Typical Lead Time	Current Lead Time
PAINTING		
Interior/Exterior Paints	1-2 weeks	1-2 weeks
High Performance Coatings	1-4 weeks	1-4 weeks
Wall Paper	4 weeks	3-4 weeks
ACT		
Drywall	1 week	2 Weeks (except for Paperless, which is unknown duration)
Mud	2-5 days	2-5 Days
Wood	1-2 weeks	1-2 weeks
Metal Studs	1 week	1-2 weeks
Mineral Wool/Rock Wool	1-3 weeks	4-16 weeks
Batt Insulation	1-2 weeks	1-4 weeks
Ceiling Grid	2-4 weeks	2-4 weeks
Ceiling Tiles	2-4 weeks	2-4 weeks
Specialty Products - Metal Tiles, Linear Metal, Wood Ceilings	12 weeks	7-10 weeks
SPECIALTIES		
Toilet Partitions	4 weeks	3-6 weeks
Accessories	4 weeks or Less	2-3 weeks
Shades	3-4 weeks	4-5 weeks
Operable Partitions (Corbin Hufcor)	8-10 weeks	8-10 weeks
Appliances	2-4 weeks	10-12 weeks
Metal Based Products (Handrails, wall protection)	3-4 weeks	7-12 weeks
Lockers	8-10 weeks	10-16 weeks
ELEVATORS		
Elevator cabs	10-20 weeks	10-22 weeks
MRLs	16-19 weeks	17-21 weeks
High speed	18-34 weeks	22-38 weeks
Low rise	14-16 weeks	16-18 weeks
PIPE & FITTINGS		
Copper Pipe & Fittings	1-2 weeks	10-12 weeks (clean copper pipe); 6 weeks (type L copper pipe)
Steel Pipe & Fittings	1-2 weeks	4-6 weeks
PVC Pipe	1-2 weeks	4-6 weeks
HVAC EQUIPMENT		
AHU's (custom)	16-20 weeks	48-52 weeks
Pumps	6-8 weeks	12-14 weeks
Valves	1-2 weeks	8 weeks
Major Equipment (Chillers, Boilers, etc.)	8-10 weeks	20 weeks
PLUMBING FIXTURES & EQUIPMENT		
Plumbing Fixtures / Specialty Valves	6-8 weeks	Stock to 26 weeks
Water Heaters	2-4 weeks	18 to 24 weeks
Drainage Pumps / Ejectors	10-12 weeks	18 to 24 weeks
Fiberglass/ Acrylic Showers	10-12 weeks	18 to 24 weeks
Kohler Toilets (lancy / residential)	6-8 weeks	18 to 24 weeks
Touchless Faucets & Flush Valves	6-8 weeks	3 to 6 months
FIRE PROTECTION & EQUIPMENT		
Fire Pumps	8-12 weeks	16-20 weeks
Steel Pipe & Fittings	1-2 weeks	2-4 weeks
Valves (FOVA's, FDN's, Dry valves, PA valves)	1-4 weeks (depending on valve)	2-8 weeks (depending on valve)
PA Panels & Detection Devices	2-4 weeks	16-20 weeks
Flexible Sprinkler Heads	1 week	4-6 weeks
ELECTRICAL		
Lighting (Standard Fixtures)	4-6 weeks	12-16 weeks
Lighting (Custom / Linear Fixtures)	8-10 weeks	20-24 weeks
Lighting Controls	8-10 weeks	12-16 weeks
Generator	10-20 weeks	60 weeks
ATS	10-20 weeks	62 weeks
Fire Alarm components	2-5 weeks	6-10 weeks
Gear	6-10 weeks	60 weeks
Steel Pipe & Fittings	A few days	2-4 weeks
PVC Pipe	A few days	2-4 weeks
Wire	A few days	3-6 weeks, MI 20 weeks
Boxes and fittings	A few days	2-4 weeks
Switchboards	6-10 weeks	60 weeks

Construction Update: Q2 2022

No delays to <2 weeks

2 to 4 week delays

4+ weeks of delay

Q2 2022

Item Description

Typical Lead Time

Current Lead Time

CONCRETE

STRUCTURAL STEEL

Decking

16 weeks

10-12 weeks

Small Joists

16 weeks

9 months

Large Joists

16 weeks

10 months

W-Sections (fab'd)

5-6 months

8-10 months

Steel plate

4-6 weeks

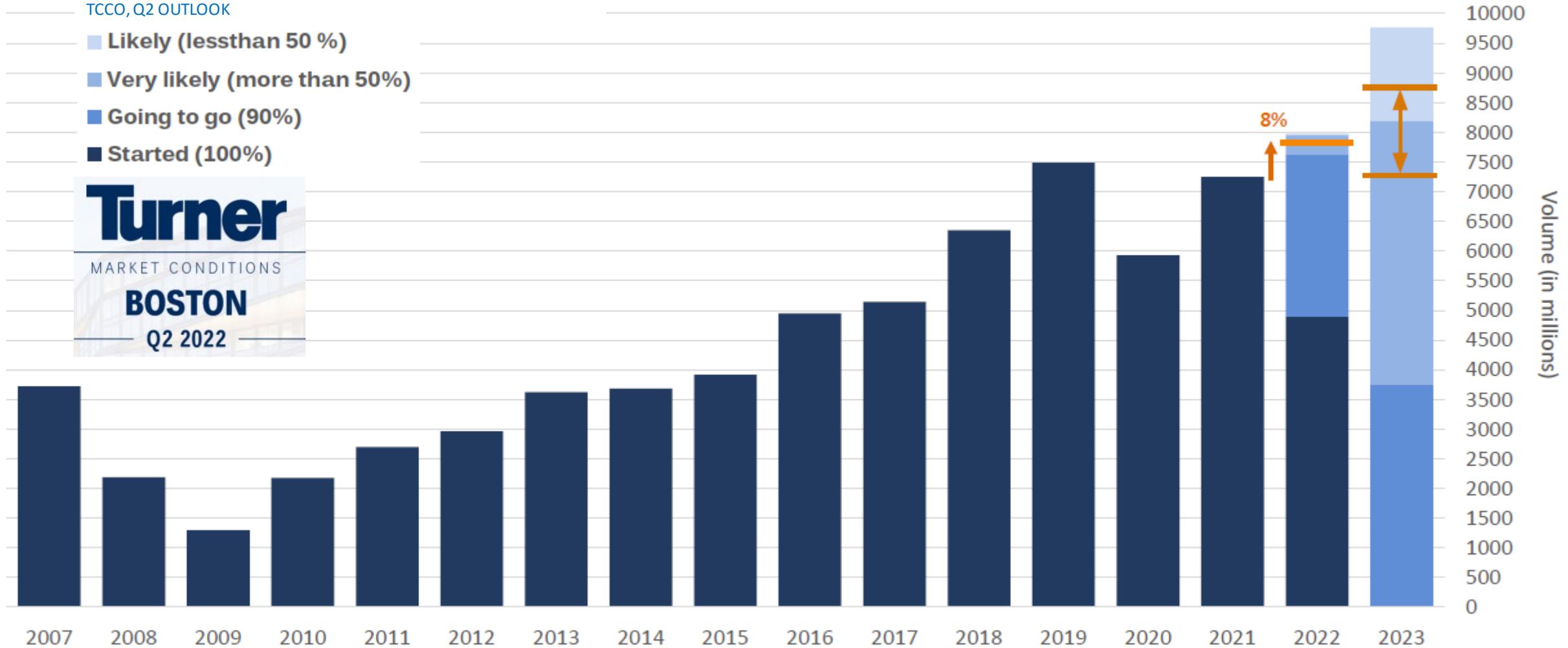
12 weeks

Construction Update: Q2 2022

Greater Boston Project Starts Tracking:

TCCO, Q2 OUTLOOK

- Likely (less than 50%)
- Very likely (more than 50%)
- Going to go (90%)
- Started (100%)



Technical Update: August 22, 2022



EDVANCE
TECHNOLOGY DESIGN, INC

Stoneham High School VoIP Meeting Notes

Meeting Date: August 3, 2022

Attendees:

Kathy Martin– Stoneham Public Schools
Bryan Lombardi – Stoneham Public Schools
John Bowen – Stoneham Public Schools
Yusuf Guler – Stoneham Public Schools
Brad Pineau – P+W
Nick Stefantsiv– Bala
Douglas Faria - Edvance

1. The middle school is currently the district head end. Internet for all the schools is accessed through the middle school.
2. The district is currently upgrading the district fiber. The cost of running fiber to the new high school needs to be identified by the district and discussed with the OPM.
3. Connections from the new high school to the other schools will be via district fiber. This work is unrelated to the high school project.
4. The district is planning a redundant Internet connection at the new high school. A new ISP will be brought to the new high school.
5. Only the Internet connection will be redundant. All district servers and related equipment will remain at the middle school. Redundant equipment will not be provided at the high school as part of the project. An additional router may be required at the new high school. That would be a district expense. ISP costs are a district expense.
6. There will be (4) 4" conduits from the new high school MDF to a handhole, and (3) 4" conduits from the handhole to the pole. Bala reviewed the site plans with the group. Confirmed that 4-4" conduits into the building is sufficient.
7. Reviewed MDF layout, typical IDF layouts and backbone cabling diagrams. No comments from SHS.
8. All power in the MDF and IDFs will be on emergency backup.
9. MM fiber will be provided between the MDF and all IDFs. The Concessions IDF will have SM fiber.
10. Video Production was reviewed and is good as hardwired where shown.
11. Makerspace was reviewed - Confirmed data layout is good as designed. No data required at floor box. Might need a laptop cart, depending on current district funding.
12. Media Center A223 was reviewed - Will mostly utilize wireless. Students will use their one-to-one devices. All data outlets from floor boxes will be removed, except for one at the teacher's desk.

13. Computer Science was reviewed - Confirmed data layout is good as designed (2-data floor box per group of desks). Noted that most teaching will be on laptops utilizing Wi-Fi. Keep 2-data in floor boxes. 2-Data at each wall display. Will need a laptop cart of 30 devices. There was an earlier programming note regarding dual monitors for all students. P+W to follow-up on this.
14. Teacher Planning C221 and C232 will have a phone on the East and West sides (2 phones total per space). Keep 1-data per teacher's desk. There will not be computers/phones at each workstation.
15. Wall phones will be added to Huddle Rooms.
16. Student one-to-one devices are Chromebooks. Every incoming freshman gets a new Chromebook. These are provided by the district and will not need to be purchased by the project.
17. Staff uses a combination of PCs, Laptops and Chromebooks. Admin uses laptops.
18. Classroom displays will be portable. Kathy and Doug noted that wireless casting will be possible but should not be depended upon for all instruction. Local connections (HDMI and USB) will be required in many instances.
19. MDF layout was reviewed, and the district finds in acceptable for current and future needs.
20. Cafeteria POS system is being upgraded this year and will be moved to the new school.

**APPENDIX 6B
MODULE 6 – 60% CONSTRUCTION DOCUMENTS REVIEW COMMENTS**

District: *Town of Stoneham*
School: *Stoneham High School*
Owner’s Project Manager: *SMMA*
Designer Firm: *Perkins + Will*
Submittal Received Date: *July 15, 2022*
Review Date: *July 18 – August 9, 2022*
Reviewed by: *Gienapp Architects, K. Brown, R. Hudson, A. Smith*

MSBA REVIEW COMMENTS

The following comments¹ on the 60% construction documents submittal are issued pursuant to a project submittal review document for the proposed project and presented as a 60% construction documents submission in accordance with the MSBA Module 6 Guidelines.

The items listed below are to be included in each project submittal by the design team (OPM and Designer) to the extent that each item applies to the project, or the design team should include an explanation why an item doesn’t apply. The project submittal may be rejected by MSBA if all items below are not fully addressed by the project team. Unless specifically stated otherwise in the review comments below, the OPM and Designer deliverables are included in the submission with no further comment from MSBA required.

6B.1 Summary Comments

	Comments
<ul style="list-style-type: none"> ● Basic Project Information <ul style="list-style-type: none"> ○ Enrollment (describe grade configuration, design enrollment and number of PK students if applicable) ○ GSF area (describe approved GSF in the Project Funding Agreement and as currently proposed) ○ Project Type (all new, add/reno, reno) ○ Delivery method (DBB, CMR). If CMR, describe contract status ○ For projects with Chapter 74 CVTE programs, OPM and Designer review and acknowledge requirements described here (Chapter 74 Meeting with MSBA and DESE following the 60% CD submission). 	<p><i>695 students grade 9-12, 128 Pre-K</i></p> <p><i>202,995 GSF (current); 207,077 GSF (PFA)</i></p> <p><i>New construction</i></p> <p><i>CMR, Consigli</i></p> <p><i>It does not appear that this is applicable. Please confirm with the response to these comments.</i> Response: Confirmed.</p>

- Project Budget Compliance:

¹ The written comments provided by the MSBA are solely for purposes of determining whether the submittal documents, analysis process, proposed planning concept and any other design documents submitted for MSBA review appear consistent with the MSBA’s guidelines and requirements, and are not for the purpose of determining whether the proposed design and its process may meet any legal requirements imposed by federal, state or local law, including, but not limited to, zoning ordinances and by-laws, environmental regulations, building codes, sanitary codes, safety codes and public procurement laws or for the purpose of determining whether the proposed design and process meet any applicable professional standard of care or any other standard of care. Project Designers are obligated to implement detailed planning and technical review procedures to effect coordination of design criteria, buildability, and technical adequacy of project concepts. Each city, town and regional school district shall be solely responsible for ensuring that its project development concepts comply with all applicable provisions of federal, state, and local law. The MSBA recommends that each city, town and regional school district have its legal counsel review its development process and subsequent bid documents to ensure that it is in compliance with all provisions of federal, state and local law, prior to bidding. The MSBA shall not be responsible for any legal fees or costs of any kind that may be incurred by a city, town or regional school district in relation to MSBA requirements or the preparation and review of the project’s planning process or plans and specifications.

- The Project Funding Agreement ("PFA") has total project budget of \$189,593,594. The submittal notes that the current total project budget is \$191,793,594, and exceeds the PFA budget by \$2,200,000.
 - The submission notes the following: that the Stoneham Select Board voted to allocate \$2,200,000 of the American Rescue Plan Act funds to allay the cost by which the current budget exceed the PFA Total Project Budget. The new budget is \$191,793,594. A One-sided Budget Revision Request will be submitted at a later date.
- The PFA has an estimated construction cost of \$153,418,660. The submittal notes that the OPM's current reconciled estimated construction cost is \$156,039,117, and exceeds the PFA budget by \$2,620,457.
 - The submission notes the following: that the Stoneham Select Board voted to allocate \$2,200,000 of the American Rescue Plan Act funds to allay the cost by which the current budget exceed the PFA. Additionally, the project team plans to allocate \$450,000 out of the Construction Contingency to cover rising construction costs after the GMP is executed. Therefore, the Construction Budget has been increased to \$156,068,660. Using this number, the ECC of \$156,039,117 is within budget.
- The (OPM/CMR)'s current construction cost estimate is \$156,039,117 by (Consigli). The Designer's current construction cost estimate is \$155,824,321 by (PM&C).
- A total project budget is included; however, it does not use MSBA's total project budget form, which can be found on MSBA's website. Resubmit using MSBA's form in the response to this review, and in all future submissions.

Response: Total Project Budget Form attached.

● General Comments:

- The drawings are underdeveloped for a 60% CD submission. It is the OPM's and Designer's responsibility to confirm all documents are sufficiently developed for each submission to the MSBA. Please confirm in response to this review and in all future submissions.

Response: Confirmed.

- In the notes of the drawings, there is mention of a couple of required variances for the project. It is not clear from these notes whether these variances have been obtained. For example, the notes indicate that the District will be going for a variance using a LULA in lieu of an elevator, which is a high cost item. With the responses to these comments, provide an update on the status of these variances and confirmation that they have been reviewed and accepted by local police, fire, and permitting authorities including the building inspector.

Response: MAAB Variance granted and included in Section 6B.3.3.

6B.2 OPM Deliverables:

6B.2.1 OPM Submittal Review & Coordination		Comments
●	OPM's written Designer submission review, with recommendations to the Owner for one of the following (choose one):	
	<input checked="" type="checkbox"/> OPM approves the submission <input type="checkbox"/> OPM approves the submission partially; reject remainder <input type="checkbox"/> OPM rejects the submission <input type="checkbox"/> OPM requires additional supporting information	
●	Coordinate design; include written recommendations to the Owner. Address each of the following items individually, and describe how the OPM evaluated each item.	
	○ Technical accuracy, coordination, & clarity	

	o Efficiency & cost effectiveness	
	o Operability	
	o Constructability	
	o Phasing	
	o Bid ability	
	o Site access during construction	
•	Coordinate Commissioning consultant's review	
	o Describe the commissioning consultant's review status.	
	o Include a copy of the commissioning consultant's review & project team's response to each item.	
	o Describe the consideration and incorporation of commissioning consultant's recommendations into the current submittal.	
•	Coordinate the District response to the MSBA comments of previous submittals.	
	o Include a copy of the previous MSBA review & District response, including any supplemental submittals and reviews.	<i>The submission states that a partial DD submission was provided to MSBA focused on financial information, as such, no MSBA comments were issued.</i>
	o Provide documentation of comments addressed and comments resolution outstanding.	<i>See note above.</i>

6B.2.2 Project Schedule		Comments
•	The OPM is responsible to submit a project schedule that conforms to the following requirements, whether the schedule is produced by the OPM or the CMR (if applicable). A schedule that is limited to construction tasks is not acceptable and will be rejected. All schedules should be presented in calendar days.	
•	Update project schedule: At a minimum, the schedule update should provide the same level of detail as was included in the Project Funding Agreement Exhibit C, expanded and updated to include milestones for Design Development, Bidding, Construction, and Closeout. The updated schedule should include proposed critical path and construction milestone information. In addition to the construction milestones, the schedule must also include the following information as listed in MSBA Module 7, Schedule Activities:	
	o Punch list start and end dates	
	o Project Registration date with the US Green Building Council ("USGBC") or Collaboration for High Performance Schools ("CHPS")	

	<ul style="list-style-type: none"> ○ Provisional/Design package submittal date to USGBC or CHPS 	
	<ul style="list-style-type: none"> ○ MSBA 50% DCAMM Notification submittal date and MSBA 100% DCAMM Standard Contractor Evaluation Form notification date 	
	<ul style="list-style-type: none"> ○ General Contractor/Construction Manager request for final payment 	
	<ul style="list-style-type: none"> ○ Commissioning Consultant inspection (substantial completion plus approximately 10 months) 	
	<ul style="list-style-type: none"> ○ Final Commissioning report to MSBA submittal date 	
	<ul style="list-style-type: none"> ○ Final Construction package to USGBC/CHPS including the Final Commissioning Report submittal date 	
	<ul style="list-style-type: none"> ○ Anticipated final Green School Program Certification letter from USGBC/CHPS issuance date 	
	<ul style="list-style-type: none"> ○ Commissioning Certificate of Completion submittal date to MSBA 	
	<ul style="list-style-type: none"> ○ Final reimbursement request submittal date to MSBA 	
<ul style="list-style-type: none"> ● 	<p>Include application submission and approval dates in the project schedule for the following approvals, coordinated with the Designer’s submittal information. In addition, provide dates for any other state or federal approval not listed below (the following list is not a comprehensive itemization of required state approvals; other requirements may apply, and some items listed below might not be applicable to this project) Indicate “Non-Applicable” on the project schedule where appropriate.</p>	
	<ul style="list-style-type: none"> ○ DESE - Special Education approval by Department of Elementary and Secondary Education 	
	<ul style="list-style-type: none"> ○ MHC – Project Notification Form and approvals by MA Historical Commission 	
	<ul style="list-style-type: none"> ○ OIG - Construction Manager at Risk approval by the Office of Inspector General 	
	<ul style="list-style-type: none"> ○ Executive Office of Energy and Environmental Affairs/EEA: 	
	<ul style="list-style-type: none"> ▪ MEPA - MA Environmental Policy Act by Energy & Environmental Affairs: 	
	<ul style="list-style-type: none"> • ENF - Environmental Notification Form 	
	<ul style="list-style-type: none"> • EIR - Environmental Impact Report 	
	<ul style="list-style-type: none"> ▪ Article 97 Land Disposition Policy approval by Energy & Environmental Affairs 	
	<ul style="list-style-type: none"> ○ MA DEP - Massachusetts Department of Environmental Protection 	
	<ul style="list-style-type: none"> ○ MA DOT - Massachusetts Department of Transportation 	
	<ul style="list-style-type: none"> ○ MA DPH - Massachusetts Department of Public Health 	

	<ul style="list-style-type: none"> ○ EPA –NPDES National Pollutant Discharge Elimination System Notice of Intent approval by the US Environmental Protection Agency 	
	<ul style="list-style-type: none"> ○ MAAB - Accessibility variances by MA Architectural Access Board 	<p><i>Not included on the project schedule. Indicated approved elsewhere in the submission. For future submissions, please include this information on the schedule, including variance approval of chair lift in place of elevator</i> Response: MAAB Variance approval indicated on line 202 of the Project Schedule included in Section 6B.2.2.</p>
	<ul style="list-style-type: none"> ● Indicate all required state reviews or permits on the milestone schedule including actual or planned approval dates which are required in order to maintain the planned bidding and construction schedule and milestones indicated therein. For required state reviews or permit approvals which have not been obtained on schedule, provide a separate (sub network) schedule depicting recovery actions to obtain required approvals in order to maintain the bidding and construction schedule. 	
	<ul style="list-style-type: none"> ● A letter on District letterhead confirming that the Project has undergone review and obtained all necessary state reviews and approvals by any departments or Commonwealth agencies required by law to review the Project, including but not limited to the approvals listed above. Attach such documentation letter evidencing such state reviews and approvals: 	
	<ul style="list-style-type: none"> ○ Identify any state reviews or permits for which approval has not been obtained as of the 60% Construction Documents submission date, and include in the District letter a status update including actions taken to date and actions planned to obtain the required approval(s) in order to comply with Project Funding Agreement (the "PFA") Section 4.12. and maintain the projected schedule milestones listed in OPM Deliverables. 	
	<ul style="list-style-type: none"> ○ PFA Section 4.12, executed between the District and the MSBA, requires that each project successfully undergo review and obtain all necessary approvals "prior to the solicitation of construction bids, by any departments or agencies of the Commonwealth required by law to review such projects..." In response to these 60% CD submission review comments, MSBA requires documentation that the District complies with this PFA requirement. 	
	<ul style="list-style-type: none"> ● The schedule is to be updated and submitted to MSBA as often as is required to reflect any changes, including any changes to milestone dates, but must be submitted with each design submittal (DD, 60% CD, 90% CD). 	

<ul style="list-style-type: none"> Indicate the date for the 60% Construction Documents and proposed 90% Construction Documents submission dates. The schedule is to incorporate 21 calendar day required duration for each MSBA submission review, and a minimum 14 calendar days for project team incorporation of MSBA review comments as well as all others into the project documents prior to the next submission due date or finalizing project documents to make available to bidders. 35 calendar days between each MSBA design submission (DD, 60%, 90%) is the minimum acceptable duration; if the project team believes additional time is required for any or all the submissions the durations for these activities are to be increased accordingly. 	<p><i>The submission only provides 8 days for the project team's incorporation of MSBA comments at the 60% CD level. However, it appears there is sufficient time to meet this requirement built into the schedule. Revise those dates for the line item in order to satisfy this requirement for a minimum of 14 days to incorporate MSBA and other review comments.</i></p> <p>Response: Duration increased, see updated Project Schedule, attached.</p>
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6B.2.3 Project Scope and Budget	Comments
<ul style="list-style-type: none"> Develop project scope and budget, cost estimates and reconciliation: <ul style="list-style-type: none"> OPM construction cost estimate using CSI MasterFormat 6-digit format to Level 3 and MGL c.149 s 44F (filed sub-bid) format showing unit rates and quantities; with escalation projected to the mid-point of construction. OPM reconciliation of the OPM/CMR and Designer construction cost estimates including a description of the method to derive this reconciliation. Refer to this link for an example of the Cost Estimate Reconciliation Form. Updated Cost Estimate Comparison Form. Refer to this link for an example of the Cost Estimate Comparison Form. 	
<ul style="list-style-type: none"> CMR (if applicable) <ul style="list-style-type: none"> If the Owner has not yet contracted with a Construction Manager (CM), the OPM must develop a construction cost estimate as described above for comparison with the Designer's cost estimate. If the Owner has given the CM a Notice to Proceed, the OPM must review cost estimates provided by the Designer and CM and provide a Designer's and CM's construction cost estimates reconciliation as described above. 	
<ul style="list-style-type: none"> Updated project budget in the total project budget format, based on the reconciled construction cost estimate. If the reconciled estimate is not used for the updated project budget, provide an explanation. 	<p><i>A total project budget is included; however, it does not use MSBA's total project budget form, which can be found on MSBA's website. Resubmit using MSBA's form in the response to this review, and in all future submissions.</i></p> <p>Response: Total Project Budget Form attached.</p>

<ul style="list-style-type: none"> Describe any early-bid packages anticipated scope and schedule. Include any early-bid packages in the submittal (if applicable) to show a complete project. Provide bid tables for any completed sub-bid packages. 	
<ul style="list-style-type: none"> Value Engineering recommendations (if any) <ul style="list-style-type: none"> Provide the list of potential and accepted Value Engineering recommendations, and associated costs of each item. 	<p><i>As requested by the project team, the value engineering recommendations have not been incorporated into the documents. For example, the binder indicates that one of the value engineering recommendations is to eliminate operable partitions in the remaining classrooms. However, there are several locations where operable partitions in classrooms are shown (i.e. detail 9 on sheet A44-01). Please include value engineering recommendations in all documents for future submissions.</i></p> <p>Response: Acknowledged.</p>
<ul style="list-style-type: none"> For any Value Engineering recommendations which have been accepted, provide a copy of the Committee vote. 	

6B.3 Designer Deliverables:

6B.3.1 General Requirements	Comments
<ul style="list-style-type: none"> Submit an updated work plan. 	
<ul style="list-style-type: none"> Updated and expanded Basis of Design narrative description for each following discipline: <ul style="list-style-type: none"> Architecture Structural: narrative must include lateral bracing methods and how earthquake code requirements will be met Civil MEP + FP Data/Comms. /Security 	
<ul style="list-style-type: none"> Updated building code analysis 	
<ul style="list-style-type: none"> Provide an updated list of proprietary items under consideration. 	
<ul style="list-style-type: none"> Updated interior color theory statement describing proposed paint and material selections and colors for typical and special spaces, why they have been selected and how these selections relate to exterior materials and colors. Confirm that color and material selections have been presented to and approved by the District. 	<p><i>An interior color theory statement is included. However, it does not confirm if color and material selections have been presented to or approved by the District. Please include this in the next submission.</i></p> <p>Response: The Design Team met first with the Interior Sub-Committee on April 26, 2022. The group was pleased with the design and color/material selection. After the Interior Sub-Committee presentation, we were directed to present the presentation to the Stoneham Building Committee.</p>

		The Committee was in agreement with what was presented and the approval of the sub-committee.
•	Updated structural calculations and required floor loads	
•	Evidence that an independent structural design review is initiated or being arranged (an MSBA requirement for all projects with new construction over 10,000 sf). MSBA requires a structural engineering peer review submission as part of the Final (100%) Construction Documents submission, to include documentation of any issues identified by the Peer Reviewer and resolution. Actions are to be advanced well prior to the 90% CD submission to engage the peer reviewer, and that scheduling be arranged to allow final structural design drawings and calculations to be submitted to the peer reviewer at the completion of the 90% Construction Documents submittal, or earlier as may be required for early (structural) bid packages, in order to incorporate comments and response action reporting in the final construction documents and avoid delays. Confirm this process has been initiated.	
•	Updated energy model calculations	
•	Updated Life Cycle cost analysis for energy and water consuming devices	
•	Updated heat gain and loss calculations for Heating, Ventilating and Air Conditioning systems	
•	Updated calculations showing total electrical load	
•	Updated security and visual access requirements:	
○	Confirmation that the persons responsible for the District’s emergency procedures implementation, and responding emergency medical, fire protection, and police agency representatives have been consulted in the planning process and any associated requirements have been included in the project.	<i>The submission does not confirm if emergency medical personnel were consulted. Please address this in the next submission.</i> Response: Confirmed. The design Team met with the Police, Fire Chief, and Town Officials multiple times during CDs to review design intent and drawings. Meeting minutes will be attached in the 90% CD MSBA submittal.
○	Identify other security related items particular to the District and/or the proposed project.	
○	Verification that the following safety and security related issues have been reviewed and are in accordance with the District’s procedures as noted above:	
▪	Main entrance design – describe District protocol for visitor entry and check-in related to the current design for visitors to remain in the vestibule versus a side sub-vestibule.	
▪	Classroom lockset hardware - confirm hardware functions are compatible with the District’s protocols related to lockdown.	

	<ul style="list-style-type: none"> ▪ Classroom / Instructional spaces visibility - confirm that the inclusion of sidelights at entrance locations is compatible with the District’s current standards related to visibility from corridors and whether any related vision control option measures are to be incorporated. 	
	<ul style="list-style-type: none"> ▪ Alternative entry/exit locations - confirm project includes site and building signage, as may be required by District’s emergency procedures, to identify locations where first responders may more directly reach a person needing medical attention; Knox Boxes; Fire Alarm Control Panels, and provisions for building plans to be delivered to local fire and response agencies. 	
<ul style="list-style-type: none"> • Facility and Maintenance requirements: 		
	<ul style="list-style-type: none"> ○ Confirmation that the district personnel responsible for maintenance have been consulted in the planning process and any associated requirements have been considered for this project. Describe maintenance related items particular to the District and/or the proposed project. 	
	<ul style="list-style-type: none"> ○ Confirmation that the district personnel responsible for budgeting and maintenance have participated in discussions regarding the selection and long-term operational and maintenance costs of the mechanical systems and building maintenance system controls. 	
	<ul style="list-style-type: none"> ○ Confirmation that the district personnel responsible for the maintenance have participated in discussions regarding the proposed training program and that these discussions have determined that the hours and the schedule for training included in the contract are sufficient to train the facility operational and maintenance personnel to operate the building management system, as designed. Confirmation that adequate hours have been scheduled both before the opening of the school and after the turnover of the building. 	
	<ul style="list-style-type: none"> ○ Verification that at a minimum the following issues have been reviewed: 	
	<ul style="list-style-type: none"> ▪ Training hours and scheduling 	
	<ul style="list-style-type: none"> ▪ HVAC systems 	
	<ul style="list-style-type: none"> ▪ Building Management Systems 	
	<ul style="list-style-type: none"> ▪ Lighting fixtures and controls 	
	<ul style="list-style-type: none"> ▪ Cleaning procedures and materials 	
	<ul style="list-style-type: none"> ▪ Roof access 	
	<ul style="list-style-type: none"> ▪ Mechanical room access 	

<ul style="list-style-type: none"> • Updated Quality Control narratives, supporting plans and documents demonstrating: <ul style="list-style-type: none"> ○ Ceiling clearances ○ Mechanical room and shaft sizes ○ Coordinate specifications and drawings ○ Filed sub-bid work ○ Scheduling ○ Equipment and power ○ Existing and new construction ○ Phasing 	
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6B.3.2 Space Summary	Comments
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<u>Spaces</u>	<u>PFA Space Summary</u>	<u>DD Space Summary</u>	<u>60% CD Space Summary</u>	<u>90% CD Space Summary</u>	<u>Difference to PFA</u>	<u>Comments</u>
Core Academic Spaces	38,790	38,790	39,612		822	This category has increased by 822 nsf since PFA
Special Education	7,700	7,700	7,700		-	
Art and Music	5,450	5,450	5,450		-	
Vocations & Technology	11,120	11,120	11,120		-	
Health and Physical Education	28,100	28,100	28,100		-	
Media Center	4,644	4,644	4,644		-	
Auditorium/ Drama	9,850	10,213	10,206		356	This category has increased by 356 nsf since PFA
Dining and Food Service	7,103	7,149	7,149		46	This category has increased by 46 nsf since PFA
Medical	770	770	770		-	
Administration and Guidance	5,902	6,462	6,554		652	This category has increased by 652 nsf since PFA

Custodial and Maintenance	2,647	2,128	2,128		(519)	This category has decreased by 519 nsf since PFA Response: 500 sf noted as excess square footage is for the Exterior Storage located in the Concessions Building, not in the Stoneham High School Building.
Other	16,475	12,125	11,895		(4,580)	This category has decreased by 4,580 nsf since PFA
Total Building Net	138,551	134,651	135,328	-	(3,223)	This category has decreased by 3,221 nsf since PFA
Non Programmed						
Other Occupied Rooms	120	120	120		-	
Unoccupied MEP/FP	3,956	3,956	3,909		(47)	This category has decreased by 47 nsf since PFA
Unoccupied Closets, Supply Rooms & Storage	355	355	410		55	This category has increased by 55 nsf since PFA
Toilet Rooms	4,120	4,120	3,859		(261)	This category has decreased by 261 nsf since PFA
Circulation	40,834	40,834	43,463		2,629	This category has increased by 2,629 nsf since PFA
Remaining	19,141	17,441	15,906		(3,235)	This category has decreased by 3,235 nsf since PFA
Total Gross	207,077	201,977	202,995		(4,082)	This category has decreased by 4,082 nsf since PFA
Grossing Factor	1.49	1.50	1.50		0	
<ul style="list-style-type: none"> Updated space summary and signed certification that reflects the current design 						
<ul style="list-style-type: none"> Comparison of the current design with the final educational program, and confirmation that there are 						

<p>no variations. If there are variations, the written summary must address the following:</p>	
<ul style="list-style-type: none"> ○ Explain deviations within the space summary from the Project Funding Agreement. The MSBA will either: <ul style="list-style-type: none"> ▪ MSBA accepts this variation to the approved project with no further action required. 	<p><i>The MSBA will continue to monitor areas in excess of the agreed upon GSF at PFA and may consider deviations over guidelines as Ineligible at PFA Bid Amendment.</i></p>
<ul style="list-style-type: none"> ▪ Prior to MSBA accepting this variation to the project, the Designer must describe in detail the reason for the change. 	
<ul style="list-style-type: none"> ○ The MSBA considers that deviations include size changes of a specific space, the total program area nsf (e.g. general classrooms, voc tech, dining etc.), space location, surrounding space adjacencies and/or the intended room purpose. <ul style="list-style-type: none"> ▪ The submittal must clearly call out deviations to location and surrounding adjacencies using redlines or “clouding.” ▪ The explanation should clearly identify the basis of the change identifying both architectural and/or programmatic reasons. ▪ If the basis of the change is programmatic, the submittal should include a red-lined version of the educational plan included in the Project Funding Agreement. 	
<ul style="list-style-type: none"> ● Regarding DESE approved SPED Spaces: 	
<ul style="list-style-type: none"> ○ Include a copy of the most recent letter from DESE approving the current proposed SPED spaces. 	
<ul style="list-style-type: none"> ○ Confirm that the DESE approved SPED spaces have not deviated, using the definition above; or, <ul style="list-style-type: none"> ▪ If the District wishes to submit a change to its DESE approved submittal, it must a) confirm that all changes to SPED spaces are final; b) provide a new SPED submittal in the original submittal format (described in Module 4 Schematic Design Section 4.1.1 and Mod 4 Appendix 4B) noting any changes with clouded floor plans and red-lined narratives and tables; and c) indicate how the project schedule can accommodate a potential DESE resubmittal and approval. Please provide a separate package for changes to DESE approved SPED spaces. ▪ If the District chooses not to change from the DESE approved submittal it should explain when and how the spaces will be returned to the approved size, configuration and location. 	<p><i>The submission reflects an adjacency change of the SPED transition room and the SPED Director room from the Schematic Design drawings. Please confirm and provide a DESE resubmittal with the responses to these comments. Please include in the DESE resubmittal a) confirm that all changes to SPED spaces are final; b) provide a new SPED submittal in the original submittal format (described in Module 4 Schematic Design Section 4.1.1 and Mod 4 Appendix 4B) noting any changes with clouded floor plans and red-lined narratives and tables; and c) indicate how the project schedule can accommodate a potential DESE resubmittal and approval. Please provide a separate package for changes to DESE approved SPED spaces.</i></p> <p>Response: The team carefully reviewed the “change” in the DESE form and made note that the change in location in the SPED TRANSITION COORDINATOR and the SPED DIRECTOR (Renamed from SPED OFFICE) from SD to 60% CD is inconsequential.</p>

<ul style="list-style-type: none"> • 	<p>Regarding DESE Approved Public Day Education Spaces:</p> <ul style="list-style-type: none"> ○ Indicate "Not Applicable" if the project does not include DESE approved Public Day Education spaces ○ If applicable, confirm that the DESE approved Public Day Education spaces have not deviated, using the definition above; or, <ul style="list-style-type: none"> ▪ If the District wishes to submit a change to its DESE approved submittal, it must a) confirm that all changes to Public Day Education spaces are final; b) provide a new submittal in the original submittal format, noting any changes with clouded floor plans and red-lined narratives and tables; and c) indicate how the project schedule can accommodate a potential DESE resubmittal and approval. Please provide a separate package for changes to Public Day Education Spaces. ▪ If the District chooses not to change from the DESE approved submittal it should confirm that the spaces are the same or explain when and how the spaces will be returned to the approved size, configuration and location. 	
<ul style="list-style-type: none"> • 	<p>Regarding DESE approved Chapter 74 Program Spaces:</p> <ul style="list-style-type: none"> ○ Indicate "Not Applicable" if the project does not include DESE approved Chapter 74 Spaces. ○ If applicable, confirm that the proposed Chapter 74 spaces conform to the current DESE Chapter 74 manual for Vocational Technical Education Programs. ○ Include a copy of the most recent letter from DESE approving the current proposed Chapter 74 Program spaces. ○ Confirm that a Chapter 74 Meeting has been scheduled with the MSBA and DESE following submittal of the 60% construction documents. ○ If applicable, confirm that the DESE approved Chapter 74 Program spaces have not deviated, using the definition above, or; <ul style="list-style-type: none"> ▪ If the District wishes to submit a change to its DESE approved submittal, it must a) confirm that all changes to Chapter 74 Program spaces are final; b) provide a new submittal utilizing the original submittal format, noting any changes with clouded floor plans and red-lined narratives and tables; and c) indicate how the project schedule can accommodate a potential DESE resubmittal and approval. Please provide a separate package for changes to the Chapter 74 Programming. 	

	<ul style="list-style-type: none"> ▪ If the District chooses not to change from the DESE approved submittal it should explain when and how the spaces will be returned to the approved size, configuration and location. 	
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	6B.3.3 Project Approvals	Comments
•	<p>Describe the status of the following approvals. In addition, provide the status of any other state or federal approval not listed below (the following list is not a comprehensive itemization of required state approvals; other requirements may apply, and some items listed below may not be applicable to this project). Provide a copy of the appropriate application forms and/or approval letters where applicable. Indicate "Not Applicable" where appropriate and describe why each item is not applicable. For each agency approval required for this project, indicate the date when approval was received. All required approvals should have an associated approval date indicated as part of the 90% CD submission and prior to advertising for bids. Confirm that the required approvals are coordinated with the OPM's project schedule.</p>	
	○ DESE - Special Education approval by Department of Elementary and Secondary Education	
	○ MHC – Project Notification Form and approvals by MA Historical Commission	
	○ OIG - Construction Manager at Risk approval by the Office of Inspector General	
	○ Executive Office of Energy and Environmental Affairs / EEA:	
	<ul style="list-style-type: none"> ▪ MEPA - MA Environmental Policy Act by Energy & Environmental Affairs: <ul style="list-style-type: none"> • ENF - Environmental Notification Form • EIR - Environmental Impact Report 	
	▪ Article 97 Land Disposition Policy approval by Energy & Environmental Affairs	
	○ MA DEP - Massachusetts Department of Environmental Protection	
	○ MA DOT - Massachusetts Department of Transportation	
	○ MA DPH - Massachusetts Department of Public Health	
	○ EPA –NPDES National Pollutant Discharge Elimination System Notice of Intent approval by the US Environmental Protection Agency (or indicate as "by GC/CMR")	

	<ul style="list-style-type: none"> o MAAB - Accessibility variances by MA Architectural Access Board 	
•	Confirmation that the Project has undergone review and obtained all necessary approvals by any departments or Commonwealth agencies required by law to review the Project, including but not limited to the approvals listed above. Attach such documentation letters evidencing such reviews and approvals. In accordance with the Project Funding Agreement (the "PFA") Section 4.12, the District must obtain such reviews or approvals prior to the construction bids solicitation.	
•	For any required state reviews or permits for which approval has not been obtained as of the 60% Construction Documents submission date, provide a status update including actions taken to date and actions planned to obtain the required state reviews and permit approval(s) in order to comply with PFA Section 4.12 and maintain the projected schedule milestones listed in OPM Deliverables.	
•	List all target dates for all local zoning approvals, testing and permits.	
•	Provide a certification that all applicable utility officials have been contacted by the Designer regarding each basic utility connection.	

6B.3.4 Cost Estimate		Comments
•	Provide a Designer's construction cost estimate based on the 60% Construction Documents, including cost estimates for general conditions, overhead and profit, insurance, bonds, and all other items; allowances expressed as percentage rates for construction contingencies, and other mutually agreed upon contingencies. Prepare the construction cost estimate using CSI MasterFormat 6-digit format to Level 3 and MGL c.149 s 44F (filed sub-bid) format showing unit rates and quantities; with escalation projected to the mid-point of construction.	
•	The estimate date should be no earlier than the 60% Construction Documents date.	
•	Provide summary sheets including the following:	
	o Date that the estimate was prepared (value date)	
	o Anticipated bid date	<i>Not included. Please provide this in the next submission. Response: Will update for the 90% CD MSBA submission.</i>
	o Project and contract number	<i>Not included. Please provide this in the next submission.</i>

		Response: Will update for the 90% CD MSBA submission.
	○ Project title and location	
	○ Designer name	
	○ Estimator name	
	○ Site cost (including all utilities)	
	○ Building cost (including fixed equipment)	
	○ Estimated construction cost of each work phase, totaled	<i>Not included. Please provide this in the next submission.</i> Response: Will update for the 90% CD MSBA submission.
	○ Items 1 and 2 work costs, as distinguished in the General Contractor’s bid forms, individually totaled	<i>Not included. Please provide this in the next submission.</i> Response: Will update for the 90% CD MSBA submission.

6B.3.5 Drawings (developed to 60% CD progress level)		Comments
•	Half-size drawings only. Confirm that text, symbols, shading and all drawings content are legible.	<i>Due to the current COVID-19 situation, hard copies were not provided. MSBA may request hard copies at a later time for record.</i>
•	If applicable, include early bid package contract documents in the submittal to show a complete project.	<i>A separate package for the second early bid package is not included in the submission. It is not clear if the second early bid package is made up of select sheets from the overall drawing set. Please clarify with the response to these comments. If separate, please provide a copy to the MSBA in the response to this review.</i> Response: To keep the project on schedule for design and construction, the project deliverables were broken into three packages: Site Enabling (BP#1), Structural (BP#2), and Construction Documents (BP#3). At the time of 60% Construction Documents, both Bid Package #1 (May 9, 2022) and #2 (June 24, 2022) had been issued. For the 90% CD MSBA submission all Bid Packages will be combined and included as a single set.
•	Cover sheet showing a drawings list and a locations map (the project title should be visible when the drawings are rolled)	
•	Sheet(s) containing all symbols, abbreviations and notes applicable to each discipline	
•	Site and Utility drawings should show the following:	
	○ Proposed work layout and location with details	
	○ Existing and proposed contours	
	○ Building locations fixed and referenced from main survey baseline	<i>The building location does not appear to be referenced to survey baseline. Suggest including this for clarity for next submission or clarify if is part of the early bid package.</i>

		Response: A complete site survey, done on the Mass State Plane Coordinate System, including benchmarks set within the site, was completed and included in the Site Enabling Package. The building location was set in the package.
	○ Floor elevations at each entrance/exit and key exterior grades at perimeter showing drainage away from the building	
	○ Site Benchmarks	<i>There is no stand-alone survey in the set. When the survey is used as a background, there is other drawing information on top of it making it difficult to read. Consequently, it is difficult to determine if there are benchmarks. Suggest including a stand-alone survey for clarity, please advise as part of the response to these review comments.</i> Response: A complete site survey, done on the Mass State Plane Coordinate System, including benchmarks set within the site, was completed and included in the Site Enabling Package. The building location was set in the package.
	○ Boring locations	
	○ Retaining walls	
	○ All utility service lines, systems and structures for electricity, gas, oil, water, steam, telephone, CATV, fire alarm, sanitary and storm drainage	
	○ Contract limit line and storage area for construction materials	
	○ Site survey which includes, but is not limited to, all existing foundations, obstructions and other site characteristics	<i>There appears to be no stand-alone site survey plan included in the submission. See comments regarding site benchmarks.</i> Response: A complete site survey, done on the Mass State Plane Coordinate System, including benchmarks set within the site, was completed and included in the Site Enabling Package. The building location was set in the package. As additional site information is uncovered during the construction phases, the site survey is updated to reflect the additional information.
	● Mobilization and enabling works	<i>It does not appear that mobilization is included in the drawing set, and it does not appear to be in the early bid package. Please clarify if this information is included elsewhere. If not, suggest including it for clarity.</i> Response: Design Team to review with CM. Phasing diagrams were included in previous submissions. These diagrams were removed from the Construction Documents set. The CM currently manages phasing diagrams, signage and traffic diagrams, and all temporary conditions diagrams. These documents are

		reviewed and approved by the Owner, OPM, Design Team, and CM.
<ul style="list-style-type: none"> • Architectural drawings showing the following: <ul style="list-style-type: none"> ○ Demolition drawings 		<p><i>Demolition drawing are very general. Consideration should be given for detailed description of existing building and extent of excavation limits required for new construction. This is especially true as the new building is very close to the existing building, which will remain open during construction. This should be reviewed and updated in the next submission or indicated to be part of an early bid package.</i></p> <p>Response: Existing building to remain in place and fully operational until the new building is completed and occupiable. Upon completion of the new building, existing building is to be demolished in its entirety. Design Team to review and update as required for the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> ○ Floor plans of each floor, with dimensions, column locations, floor elevations, door designations, partition types & fire-rated partitions and smoke partitions, built in furniture and equipment, keyed to other architectural drawings and coordinated with exterior grade elevations at all interior to exterior transitions 		<p><i>The documents do not include interior dimension of architectural elements such as partitions. Suggest including this information for clarity.</i></p> <p>Response: Design Team will include dimensions in the 90% CD MSBA submission.</p> <p><i>It appears that the second floor of the gym uses 2-hour rated partitions, but the first floor does not. It is not clear if this is intentional. This should be reviewed and, if needed, revised in the next submission.</i></p> <p>Response: Acknowledged. This is intentional and has been reviewed with the Code consultant and is part of the Life Safety strategy for this project.</p>
<ul style="list-style-type: none"> ○ Key plans / overall plans where required 		
<ul style="list-style-type: none"> ○ Large scale plans showing key areas e.g. lobby, special spaces. Indicate floor surface materials (minimum 1/4" = 1'-0" before reduction) 		
<ul style="list-style-type: none"> ○ Roof plans showing the following: <ul style="list-style-type: none"> ▪ Proposed systems type 		<p><i>The roof details do not appear to be sufficiently developed for a 60% CD submission. These should be reviewed and updated in the next submission and in preparation for trade bids.</i></p> <p>Response: Roof details will continue to be developed for the 90% CD MSBA submission. Details are only provided as needed for the project, and are provided on various sheets in the set, not only on the typical roof details sheet.</p>
<ul style="list-style-type: none"> ▪ Pitch and drainage pattern 		<p><i>Roof drains and tapered patterns are graphically inconsistent throughout the trade drawings, which may lead to confusion. For example, the architectural roof plans compared to sheets P11-04A and P11-04D. Suggest consistent graphic representation and design</i></p>

	<i>should be reviewed and coordinated for the next submission and finalization for trade bids.</i> Response: Coordination of final locations will be developed for the 90% CD MSBA submission.
▪ Roof drains, gutters and scuppers	<i>See above.</i> Response: Coordination of final locations will be developed for the 90% CD MSBA submission.
▪ Skylights, penthouses, major equipment, chimneys	
▪ Roof access and ladders	
▪ Walk pads	
▪ Rooftop Solar Readiness area, PV support and interconnection pathways	
○ Building Sections updated and coordinated with plans and elevations	
○ Building elevations showing the following:	
▪ Full height elevations including roof structures, e.g., mechanical equipment, chimneys, and penthouses	<i>While exterior elevations of the stadium building are included in the submission, they do not include dimensions or notes. These should be reviewed and updated in the next submission.</i> Response: Acknowledged.
▪ Floor elevations, floor-to-floor height, and overall height related to benchmarks on site plans	
▪ Windows, storefront, and curtain wall systems	
▪ All columns located on a centerline and coordinated with the structural drawings	
▪ Materials indicating major control and expansion joints, and divisions of materials where required	
▪ Exterior grades and topographical features in context	
○ Wall sections indicating dimensions, flashing, anchorage, reinforcing, masonry coursing, cladding, and all other conditions at wall, roof, foundation, interior floors; coordinated with exterior grade elevations	<i>The wall sections do not appear to be sufficiently developed for a 60% CD submission. Additionally, only a limited number of wall sections are included, which do not appear to show all the various building conditions. These should be reviewed and updated in the next submission.</i> Response: Wall sections will continue to be developed for the 90% CD MSBA submission.
○ Details demonstrating continuous thermal insulation and thermal breaks between conditioned interior spaces and unconditioned exterior spaces (parking garages, loading zones and other open areas)	<i>Thermal isolation and insulation are consistent as shown, but many details lack sufficient information to confirm this. This should be reviewed and updated in the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.
○ Exterior details, for roofing, flashing and other details showing all major conditions	<i>See above.</i>

	Response: Will review and update as required for the 90% CD MSBA submission.
o Door, window, entrance, curtain wall and storefront, schedules, and details	<i>The door and window details do not appear to be sufficiently developed for a 60% CD submission. These should be reviewed and updated in the next submission and in preparation for bidding.</i> Response: Will review and update as required for the 90% CD MSBA submission.
o Vertical circulation plans, sections and details including ramps, stairs, lifts and elevators	<i>The summation indicates that the variances required for the use of a LULA in lieu of an elevator. However, it is not clear if the variance has been approved. With the response to these comments, please clarify.</i> Response: MAAB Variance granted and included in Section 6B.3.3. <i>Some areas appear to show long dead-end corridors; however, not enough dimensions are available to confirm. One example is the corridor outside of Admin Rm A110b corridor. This should be reviewed and, if needed, updated in the next submission. Suggest adding additional dimensions for clarity.</i> Response: Will review and update as required for the 90% CD MSBA submission.
o Guardrails and handrails including details	<i>It is not clear if there are guards or other elements under some stairs for head clearances. For example, Stair E S-E1 on the first floor as see on sheet A10-01. This should be reviewed and, if needed, updated in the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.
o Interior elevations of all significant and typical spaces	
o Interior details including casework, paneling surfacing and acoustical treatment	<i>The interior details do not appear to be sufficiently developed for a 60% CD submission. These should be reviewed and updated in the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.
o Reflected ceiling plans coordinated with fire protection, mechanical and electrical drawings	<i>Architectural reflected ceiling plans do not show all fire protection, mechanical, or electrical items. These should be reviewed and updated in the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.
o Ceiling details	<i>There are very few ceiling details included in this submission. This should be reviewed and, if needed, updated in the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.
o Schedules	
▪ Finishes	
▪ Doors	

	<ul style="list-style-type: none"> ▪ Windows 	
	<ul style="list-style-type: none"> ▪ Equipment schedules; e.g., food service, instructional media 	
	<ul style="list-style-type: none"> ▪ Partitions 	
•	Structural drawings showing the following:	
	<ul style="list-style-type: none"> ○ Structural drawings legend and/or graphical symbols 	
	<ul style="list-style-type: none"> ○ Foundation plans with bottom grades showing all footing layouts, walls, slabs on grade including reinforcing, grade beams, and columns; include design soil bearing pressures and live loads for each area 	
	<ul style="list-style-type: none"> ○ Structural floor and roof plans including framing, finished floor elevations and depressed slab areas, with locations and dimensions for all openings and depressions, coordinated with the architectural drawings 	<p><i>This submission includes slab edge plans, however, they are not fully dimensioned, so it is difficult to determine whether they are sufficiently coordinated. This should be reviewed and, if needed, updated in the next submission</i></p> <p>Response: The slab edge dimensions are controlled by Architect.</p>
	<ul style="list-style-type: none"> ○ Floor and roof framing design loads 	
	<ul style="list-style-type: none"> ○ Complete foundation wall elevation and typical sections, with reinforcing indicating location, dimensions and grades for all footings, steps and wall openings 	
	<ul style="list-style-type: none"> ○ All lintels, beams, joists, and columns are identified (with typical sizes shown) on schedules or on drawings 	
	<ul style="list-style-type: none"> ○ All Structural supports required for mechanical equipment 	<p><i>On sheet S10-04, there is a note suggesting that "allowances should be considered for items such as support for sculpture slash art commissions, and thermal breaks within steel construction that penetrates the envelope". This appears to be a very general note which may lead to issues with bidding and construction, and preparation of the PFA Bid budget. Suggest showing where these allowances should be provided or otherwise better indicating amount and locations.</i></p> <p>Response: The note has been removed.</p>
	<ul style="list-style-type: none"> ○ General notes including the following information: class and 28 day concrete strength for each portion, structural steel and concrete reinforcing design stresses for each structural member type, concrete cover for each structural member type, shrinkage and temperature steel requirements, reinforcing laps for main reinforcing and temperature steel; bend point, cutoff, and hook locations for all members, minimum beam and lintel bearing. 	
•	Fire protection drawings showing the following:	
	<ul style="list-style-type: none"> ○ Fire protection drawings legend and/or graphical symbols 	

<ul style="list-style-type: none"> ○ Standpipe systems, sprinkler systems, suppression systems, fire pump where required, accessories, and piping 	<p><i>There was no indication if Fire Protection manifold system is intended for the roof areas. Please clarify and address in the next submission.</i></p> <p>Response: A roof hydrant has been provided and is located on sheet FP11-04B.</p> <p><i>The cost estimates included in the binder suggest a fire pump is not included and there are no calculations on the drawings to confirm fire pump requirements. With the response to these comments, please confirm if a fire pump is part of the project.</i></p> <p>Response: A fire pump is not required for this project. Water supply test data can be found in spec 210001 section 1.16.</p>
<ul style="list-style-type: none"> ○ All piping, equipment, fixtures, valves and devices 	<p><i>It does not appear there are sprinklers located under the gym bleachers or under the exterior covered entry areas. This should be reviewed and, if needed, add it in the next submission. Confirm resolution of this with the AHJ as part of the next submission.</i></p> <p>Response: Sprinkler coverage has been installed below the bleachers and has been approved by the Stoneham Fire Department. Extended coverage horizontal sidewall sprinkler heads are installed along the gym wall to protect behind the bleachers when closed and when open. Upright sprinkler heads are installed below the track and in front of the closed bleachers which protect the front of the bleachers when closed.</p>
<ul style="list-style-type: none"> ○ Design criteria shall be provided on the drawings in accordance with NFPA requirements. 	
<ul style="list-style-type: none"> ● Plumbing drawings showing the following: 	<p><i>Sheet P70-02 is blank. This should be reviewed and updated in the next submission.</i></p> <p>Response: Sheet will be addressed in the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> ○ Plumbing drawings legend and/or graphical symbols 	
<ul style="list-style-type: none"> ○ All work done by the Plumbing Subcontractor, which includes all water, gas, air, vacuum, sanitary and storm wastes, and accessories 	<p><i>No exterior hose bibs are shown. This should be reviewed and updated in the next submission.</i></p> <p>Response: Exterior hose bibs will be reviewed for the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> ○ Plumbing fixtures trapping and venting including floor drains 	
<ul style="list-style-type: none"> ○ Dimensioned floor drain locations in coordination with the structural plan 	<p><i>It appears that floor drains may be shown on the drawings; however, they are not tagged as floor drains, and they are not dimensioned. This should be reviewed and corrected in the next submission.</i></p> <p>Response: Floor drains will be tagged for the 90% CD MSBA submission. Plumbing floor drain locations are approximate and shall be coordinated with final equipment during construction.</p>

<ul style="list-style-type: none"> ○ Confirm any hazard or noxious contaminants such as chimneys, plumbing vents or cooling towers are located a minimum 25 feet from outside air intakes or such openings are a minimum two feet below the contaminant source and ten feet horizontally from the nearest edge of the air intake to the nearest edge of the contaminant source (refer to 780 CMR Massachusetts State Building Code in effect at the time of project approval). Consider adding filters to the contaminant source if necessary. 	<p><i>The submission does not indicate clear spaces around air intakes, so it is not clear if proximity to hazard or noxious contaminants is a concern, suggest including more information for clarity. As part of the response to these review comments, confirm best practices have been followed for clear spaces between sanitary vents and air intakes.</i></p> <p>Response: Clear zones have been added to the roof drawings with a note clarifying. Vents will not be allowed within 25' of fresh air intakes.</p>
<ul style="list-style-type: none"> ○ Water and gas supply sources, storm and sanitary discharge mains 	
<ul style="list-style-type: none"> ○ All piping sizes shall be indicated on drawings and riser diagrams, including flow and pitch directions 	<p><i>Piping flow and pitch directions is not shown. Suggest including this information for clarity.</i></p> <p>Response: Flow and Pitch arrows will be reviewed for the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> ○ All accessories, valves, fixtures including all drinking fountains and grease traps for kitchen waste 	
<ul style="list-style-type: none"> ○ Verify eyewash stations are provided in all areas where chemicals are stored or used. 	
<ul style="list-style-type: none"> ○ All piping and connections required for other trades (e.g., kitchen equipment, HVAC make-up water, etc.) 	
<ul style="list-style-type: none"> ○ Acid waste (where required), vents and neutralization systems for laboratories 	
<ul style="list-style-type: none"> ○ Plumbing riser diagrams 	
<ul style="list-style-type: none"> ○ Domestic water booster pumps, boiler feed water, meter locations, hose bibs 	<p><i>No exterior hose bibs are shown. This should be reviewed and updated in the next submission.</i></p> <p>Response: Exterior hose bibbs will be reviewed for the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> ○ Domestic hot water: Storage tanks, piping material, hanger details 	
<ul style="list-style-type: none"> ○ Backflow preventers, and cleanouts 	
<ul style="list-style-type: none"> ● Heating, Ventilating and Air Conditioning Drawings showing the following: 	<p><i>The HVAC drawings do not appear to be sufficiently developed for a 60% CD submission. These should be reviewed and updated in the next submission.</i></p> <p>Response: Yes, further Drawings development will be made for the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> ○ Mechanical drawings legend and/or graphical symbols 	
<ul style="list-style-type: none"> ○ Large scale plans of all mechanical & electrical spaces showing equipment to scale 	
<ul style="list-style-type: none"> ○ All piping and ductwork systems located and sized. All ductwork is shown double line and drawn to scale 	<p><i>Not all piping or ductwork systems have been located or sized. This should be reviewed and updated in the next submission.</i></p> <p>Response: Noted. The 90% CD MSBA submission will provide more detail.</p>

<ul style="list-style-type: none"> ○ All piping and duct systems sized at all reductions and riser diagrams 	<p><i>Not all piping or ductwork systems have been located or sized. This should be reviewed and updated in the next submission.</i></p> <p>Response: This will be further developed on the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> ○ All flow directions and pitch on piping, and duct systems indicate flow and volumes direction 	<p><i>Flow and pitch on piping and ductwork is not fully indicated. This should be reviewed and updated in the next submission.</i></p> <p>Response: We will develop on the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> ○ All equipment shall have enough servicing and/or replacement space indicated on drawings 	<p><i>Servicing and replacement space is not shown on the drawings for the equipment. Suggest including this information for clarity.</i></p> <p>Response: Service access area for major equipment will be shown in the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> ○ All equipment, accessories, valves and dampers identified as to type and size 	<p><i>Not all type and size information are identified for the equipment, accessories, valves, and dampers. This should be reviewed and updated in the next submission.</i></p> <p>Response: Will review and update as required for the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> ○ Cooling system pumps, chillers, cooling towers, air handling units, ductwork system and dampers, fan details, temperature control system, air and hydronic balancing equipment, and schedules shall be indicated. 	<p><i>Schedules of equipment are included in the submission; however, much of it looks like generic material, and it is unclear if it has been edited for this project. This should be reviewed, and if needed, updated in the next submission.</i></p> <p>Response: Drawings are in development but much of the equipment referenced has been scheduled.</p>
<ul style="list-style-type: none"> ○ Confirm outside air intake openings are a minimum 25 feet from any hazard or noxious contaminants such as chimneys, plumbing vents, cooling towers, streets, alleys, parking lots and loading docks. When locating an air intake within 25 feet of a contaminant source is unavoidable, such opening shall be a minimum two feet below the contaminant source and ten feet horizontally from the air intake nearest edge to the contaminant source nearest edge. All intakes shall be six feet above landscaped grade including soil, lawn, shrubs, or any plant life within 1.5 feet horizontally. 	<p><i>The submission does not indicate clear spaces around air intakes, so it is not clear if proximity to hazard or noxious contaminants is a concern, suggest including more information for clarity. Confirm best practices for distances set between sanitary and other vent stacks and all air intakes.</i></p> <p>Response: Detail lines will be shown indicating outdoor air intakes. Coordination efforts are ongoing to maintain required distances.</p>
<ul style="list-style-type: none"> ○ Cooling tower (where required) shall be indicated on the drawings showing site location, elevations and equipment layout floor plan and typical flow diagram as related to the total HVAC system. 	
<ul style="list-style-type: none"> ○ Fire and smoke dampers 	
<ul style="list-style-type: none"> ○ Mechanical room designs: 	

	<ul style="list-style-type: none"> ▪ Vent pipes for safety valves, relief valves, back pressure valves and tanks shall be extended above flat roofs in accordance with all governing authorities. 	<p><i>It is not clear if vent piping is shown in the mechanical room plan. This should be reviewed and updated in the next submission.</i></p> <p>Response: Will review and update as required in the 90% CD MSBA submission.</p>
	<ul style="list-style-type: none"> ▪ In all designs for boiler and refrigeration plants, include a complete floor plan indicating all major mechanical equipment location and service space. 	
	<ul style="list-style-type: none"> ▪ In new and/or replacement boiler and refrigeration plants designs, provide a flow diagram detailing steam or hot water distribution systems, return systems, including all existing equipment and their function, as well as any proposed expansions with all necessary instrumentation and controls. 	
<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> Electrical Drawings showing the following: 	
	<ul style="list-style-type: none"> ○ Electrical drawings legend and/or graphical symbols 	
	<ul style="list-style-type: none"> ○ General arrangement: Outline each floor layout 	
	<ul style="list-style-type: none"> ○ Indicate interface with other systems. Identify any work by general contractor or other trades. 	
	<ul style="list-style-type: none"> ○ Interior lighting system: Light fixture schedules, circuiting location and fixture mounting heights, receptacle and switch outlets, lamp sizes and types, conduits, all other accessories and riser diagrams shall be indicated on drawings. Designer shall specify that all electrical lighting fixtures be supported from the building structure, and shall be independent of ducts, pipes, ceilings and their supporting members. Comply with seismic design criteria. 	
	<ul style="list-style-type: none"> ○ Power system: Locations, types and control method for all motors, heaters, appliances, controllers, starters, branch circuits, feeder conductors and conduits. Indicate riser diagrams. Show electrical conduit supporting method and details. For larger projects, thermostats and control wiring are normally covered under the HVAC sub-contract, assure coordination. 	
	<ul style="list-style-type: none"> ○ Fire Alarm, Data, Communications, CATV/CCTV Systems: device types and locations, outlets and equipment, service connections, wiring diagrams, all other essential details 	
	<ul style="list-style-type: none"> ○ Services: location and details, whether overhead or underground, feeder sizes, switchgear and transformer plans and elevations, metering and service switchboard arrangements, wiring and ground fault diagram and bus ducts 	

o Utility interconnection pathways to Solar Readiness areas	
o General stations and sub-stations: Location, size, connection method and generator protection, transformers, exciters, motor generators, switch gear, and associated equipment, current characteristics and equipment capacities. Indicate equipment connections with one line and/or wiring diagrams and schedule all major equipment and instruments items.	
o Underground work: manholes sizes and locations, cable types, duct number, sizes and locations, cable support sizes, types and locations, fireproofing, duct line profile, and one-line connection diagrams	
o Pole line work: Location, length, treatment and class of poles, guying, cross arms, insulators, circuiting, transformers, protective and switching devices, lightning arresters, special structures, diagrams, current characteristics and grounding	<i>No lightning arrestors indicated. This should be reviewed and updated in the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.
o Exterior lighting: Location, size, and transformer types, luminary, poles, light standards, cables, ducts, and manholes, control equipment details and connection diagrams	<i>Details for the exterior lighting is not included in the submission. This should be reviewed and, if needed, updated in the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.
o Emergency system (where provided) details including transfer switch, fuel types	
o One-line diagram indicating load KVA, and available short circuit amperes at each transformer, switchboard, distribution panel board, branch circuit panel board, and at major equipment	
o Riser diagrams for all systems	

6B.3.6 Project Manual (developed to 60% CD progress level)	Comments
<ul style="list-style-type: none"> If applicable, include early bid package contract documents in the submittal to show a complete project. 	<p><i>A separate package for the second early bid package is not included in the submission. Please provide a copy with a response to these comments.</i></p> <p>Response: To keep the project on schedule for design and construction, the project deliverables were broken into three packages: Site Enabling (BP#1), Structural (BP#2), and Construction Documents (BP#3). At the time of 60% Construction Documents, both Bid Package #1 (May 9, 2022) and #2 (June 24, 2022) had been issued. For the 90% CD MSBA submission all Bid Packages will be combined and included as a single set.</p>

<ul style="list-style-type: none"> The technical specifications format in CSI Master format (full-length, current version) with separate sections for each class of work required by M.G.L. c. 149 §44F. 	<p><i>Generally complies. However, some sections are in outline specification form, for example, Sections 133416 "Grandstands", 142400 "Hydraulic Elevators", 142600 "Limited Use Limited Application Elevators", and 144200 "Wheelchair Lifts". For the next submission, please use CSI full-length section format.</i></p> <p>Response: Have been updated for pricing and will be submitted in the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> Confirmation that the contract meets the applicable requirements of M.G.L. c. 149, § 44A (2)(g) and contains workforce participation goals for minorities and women. Confirm that the contract includes the processes and procedures to ensure compliance with the workforce participation goals, including reporting and enforcement provisions. 	
<ul style="list-style-type: none"> Confirmation that the contract meets the applicable requirements of M.G.L. c 7c, §6 and M.G.L. c. 7, §61(l), and contains Annual Program Goals for Minority Business Enterprise ("MBE") and Women Business Enterprise ("WBE") Participation and includes the processes and procedures to ensure compliance with the Minority and Women Business Goals, including reporting and enforcement provisions. 	
<ul style="list-style-type: none"> For each material or equipment item, the specifications shall provide for a minimum three named material or equipment brands and the words "or equal" or a material or equipment description which can be met by a minimum three manufacturers or producers, and the words "or equal." Proprietary products shall not be specified except as provided by M.G.L. c. 30, § 39M; however, when they are specified, proprietary specifications are subject to the "or equal" provisions of c. 30, § 39M. 	<p><i>Generally complies. However, some of the finishes (for example, Section 096816 "Sheet Carpeting", Section 096513 "Resilient Base & Accessories", Section 096543 "Linoleum Flooring") do not provide a minimum of three named manufacturers. The Basis of Design products are indicated on the Finish Schedule, but other acceptable manufacturers are not identified. For the next submission, please provide at least three acceptable manufacturers and the words "or equal" for each material or equipment item.</i></p> <p>Response: Have been updated for pricing and will be submitted in the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> Do not specify that a product or system shall require prequalification for use prior to bidding. 	
<ul style="list-style-type: none"> Include a copy of the geotechnical report, including test boring hole locations and dates, and soil investigation results, including water levels, allowable solid bearing pressure recommendations, foundations and bottom grades of footing and slabs. 	
<ul style="list-style-type: none"> Indicate all required filed sub-bids specification sections. 	<p><i>Filed sub-bid sections are not identified in Divisions 02 through 14 of the Project Manual. For the next submission, please identify all filed sub-bid sections.</i></p> <p>Response: Have been updated for pricing and will be submitted in the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> Each filed sub-bid section shall detail all labor and materials required by the sub-trade. 	<p><i>See above comment – filed sub-bid sections are not identified in Divisions 02 through 14 of the Project Manual.</i></p>

		Response: Have been updated for pricing and will be submitted in the 90% CD MSBA submission.
<ul style="list-style-type: none"> Staging, scaffolding, cutting and patching, refuse collection and disposal, demolition work and cleaning task, allocation policy and proposed language shall be carefully assigned to avoid duplication or omission. 		
<ul style="list-style-type: none"> Describe the work extent, the materials and workmanship, and include the work under the proper section. If any portion of work included in a specifications section is to be performed by a trade covered by another section, there shall be clear and distinct cross-referencing between the sections. Merely to state "by others" is not acceptable. 	<p><i>Some further coordination is needed. For example, it is unclear if duct-mounted smoke detectors are provided by Section 260000 "Electrical" or by Section 283111 "Digital, Addressable Fire Alarm Systems". This should be reviewed and coordinated for the next submission.</i></p> <p>Response: Will review and update as required in the 90% CD MSBA submission.</p> <p><i>Several sections contain references to Sections 014339 "Mockups" and 014339.16 "In Place Mockups", neither of which were included in the Project Manual. This should be reviewed and coordinated for the next submission.</i></p> <p>Response: Will review and update as required in the 90% CD MSBA submission.</p> <p><i>Additionally, numerous sections in Division 23 appear to be incomplete or unedited masters. This should be reviewed and updated for the next submission.</i></p> <p>Response: Will review and update as required in the 90% CD MSBA submission.</p>	
<ul style="list-style-type: none"> All "Work by Others" specification references are coordinated. 		
<ul style="list-style-type: none"> Specify work in appropriate Sections according to local trade jurisdiction. 		
<ul style="list-style-type: none"> In sections for which filed sub-bids are required, refrain from using such terms as "the Contractor," the "Heating Contractor," or "the Plumbing Contractor," but where necessary for clarity refer to the "HVAC Subcontractor," the "General Contractor" and so on. 	<p><i>Sections in Divisions 21-28 use the term "the Contractor". For clarity, consider replacing this with terms such as "the General Contractor," "the Plumbing Subcontractor," "the Electrical Subcontractor" in the next submission.</i></p> <p>Response: Will review and update as required in the 90% CD MSBA submission.</p>	
<ul style="list-style-type: none"> Alternates, if approved in writing by the owner, shall be properly described and cross-referenced in the project manual and drawings. 		
<ul style="list-style-type: none"> Allowances are prohibited pursuant to M.G.L. c. 149, § 44G(A). 		
<ul style="list-style-type: none"> Unit price items, if permitted or ordered by the owner, shall be properly described in the specifications. 	<p><i>Section 012200 "Unit Prices" identifies unit price items from Section 332313 "Geothermal Well Field" in the Unit Price Schedule, which is not issued with the 60% CD submission. However, other sections appear to contain unit price items as well (for example, Sections 265113 "Architectural Luminaires, Sources and Components", 035416 "Hydraulic Cement Underlayment", 090561.13 "Moisture Vapor Emission Control", and 022820 "Asbestos Remediation"). This should be reviewed and updated for the next submission.</i></p>	

		Response: Unit Prices will be reviewed and updated for the 90% CD MSBA submission.
•	Do not use general clauses intended to be all-inclusive in lieu of complete descriptions.	
•	Do not duplicate standard requirements that are contained in the contract form.	
•	Use consistency throughout. The word "will" shall be used to designate what the owner, authority, owner's project manager, or the Designer can be expected to do, and the word "shall" shall be used to designate what is mandatory for the contractor or subcontractors to do.	<i>The term "will" is sometimes used to describe what is mandatory for the contractor to do, and the term "shall" is sometimes used to describe what the owner or designer can be expected to do. This should be reviewed and, if necessary, updated for the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.
•	Use the same term throughout for the same subject and the term shall be the same as that used on the drawings.	
•	Do not use the term "etc.."	<i>The term "etc." is used throughout the Project Manual. This should be reviewed and, if necessary, updated for the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.
•	Avoid such terms as "to the satisfaction of the Designer," "as directed by the Designer," "as approved" and "as required."	<i>The terms "to the satisfaction of the Architect," "as directed by the Architect," "as approved" and "as required" are used throughout the Project Manual. This should be reviewed and, if necessary, updated for the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.
•	Avoid using symbols.	
•	Do not give numbers both in words and figures. Numbers less than 10 shall be written in words, 10 and higher numbers shall be written in figures. In expressing dimensions, figures such as 2 in., 16 in., 7 ft., 6 in., shall be used.	<i>Numbers are sometimes given in both words and figures. This should be reviewed and if necessary, updated for the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.
•	Specify materials mined or manufactured in Massachusetts first and the United States of America second whenever possible.	<i>Materials mined or manufactured in Massachusetts do not appear to be specified first. This should be reviewed and, if necessary, updated for the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.

6B.3.7 Project Coordination	Comments
•	Verify the submittal is coordinated with any early-bid packages, if applicable. <i>Wall sections are not sufficiently developed to determine if coordination has been performed between packages. Please address this in the next submission.</i> Response: Will review and update as required for the 90% CD MSBA submission.

<ul style="list-style-type: none"> Room names and numbers are coordinated between all disciplines. 	
<ul style="list-style-type: none"> Finish grade elevations coordinated between all disciplines. 	
<ul style="list-style-type: none"> Civil earthwork grading and excavation plans are coordinated with architectural and landscape plans. 	
<ul style="list-style-type: none"> Materials/soil terms used in the Earthwork specification is coordinated with architectural, structural and civil specifications and plans. 	
<ul style="list-style-type: none"> Seismic detailing coordinates with architectural drawings. 	
<ul style="list-style-type: none"> Confirm that there are no beams and columns protruding horizontally and vertically into stairwells, and other interior spaces. 	<p><i>The edge of slab drawings appears to be in progress, so it could not be confirmed that there are no beams or columns protruding into stairwells. This should be reviewed and updated in the next submission.</i></p> <p>Response: Will review and update as required for the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> Structural dimensions match architectural drawings. 	
<ul style="list-style-type: none"> Column orientation matches architectural drawings. 	
<ul style="list-style-type: none"> Column grid lines match architectural drawings. 	
<ul style="list-style-type: none"> Column and bearing wall locations match architectural drawings. 	
<ul style="list-style-type: none"> Column locations coordinated with all other disciplines. 	
<ul style="list-style-type: none"> Slab depressions are indicated in the structural drawings and coordinated with the architectural finishes and plumbing drawings. 	<p><i>The edge of slab drawings appear to be in progress, and are not fully dimensioned. Therefore, coordination with the structural drawings could not be confirmed. This should be reviewed and updated in the next submission.</i></p> <p>Response: The slab edge dimensions are controlled by Architect.</p>
<ul style="list-style-type: none"> Verify that the structural, mechanical, or other disciplines, do not conflict with architectural plans or specifications. 	
<ul style="list-style-type: none"> Verify coursing dimensions at vertical masonry construction. 	<p><i>Dimensions that could confirm coursing are not included on the elevations or sections. Suggest including this for clarity.</i></p> <p>Response: Will provide dimensions for clarity on the enlarged elevation sheets and will be submitted in the 90% CD MSBA Submission.</p>
<ul style="list-style-type: none"> Coordinate thermal insulation and thermal breaks between conditioned interior spaces and unconditioned exterior spaces. 	
<ul style="list-style-type: none"> Room wall/floor/ceiling construction coordinated with the finish schedule. 	
<ul style="list-style-type: none"> Coordinate access to mechanical and plumbing systems with architectural finishes. Confirm that requirements for access panel sizes and locations are coordinated between architectural and MEP/FP drawings and specifications. 	<p><i>Access panels are not shown on the drawings. Suggest including these for clarity.</i></p> <p>Response: Will review and update as required for the 90% CD MSBA submission.</p>

District Response

8/23/22

<ul style="list-style-type: none"> • Mechanical equipment power requirements and physical locations, including special information as to who mounts, connects, tests, etc. 	
<ul style="list-style-type: none"> • Coordinate outside air intake opening locations and any hazard or noxious contaminants as described by 780 CMR: Massachusetts State Building Code. 	
<ul style="list-style-type: none"> • Verify potential spatial conflicts in mechanical equipment. 	
<ul style="list-style-type: none"> • Coordinate roof plans with MEP drawings; indicate roof top systems, access, walk pads & guardrails. 	<p><i>Roof drains and tapered patterns are graphically inconsistent throughout the trade drawings, which may lead to confusion. For example, the architectural roof plans compared to sheets P11-04A and P11-04D. Suggest consistent graphic representation and design should be reviewed and coordinated for the next submission.</i></p> <p>Response: Will review and update as required for the 90% CD MSBA submission.</p>
<ul style="list-style-type: none"> • Coordinate Solar Readiness areas on roof plans, structural plans and electrical/plumbing drawings. 	
<ul style="list-style-type: none"> • Equipment plan coordinates with architectural plans. 	
<ul style="list-style-type: none"> • The Designer confirms that the project continues to comply with the MSBA High School Science Lab Guidelines and/or Recommendations of Best Practices for K-12 STEM learning Spaces. 	

Town of Stoneham
Stoneham High School

8/18/21 (8/10/22 60%CD)

Total Project Budget: All costs associated with the project are subject to 963 CMR 2.16(5)	Estimated Budget	Scope Items Excluded from the Estimated Basis of Maximum Facilities Grant or Otherwise Ineligible	Estimated Basis of Maximum Total Facilities Grant ¹	Estimated Maximum Total Facilities Grant ¹
Feasibility Study Agreement				
OPM Feasibility Study	\$105,000	\$0	\$105,000	
A&E Feasibility Study	\$420,000	\$0	\$420,000	
Environmental & Site	\$160,000	\$0	\$160,000	
Other	\$65,000	\$0	\$65,000	
Feasibility Study Agreement Subtotal	\$750,000	\$0	\$750,000	\$413,250
Administration				
Legal Fees	\$120,000	\$120,000	\$0	\$0
Owner's Project Manager				
Design Development	\$380,000	\$0	\$380,000	
Construction Contract Documents	\$640,000	\$491,537	\$148,463	
Bidding	\$180,000	\$0	\$180,000	
Construction Contract Administration	\$3,185,100	\$666,150	\$2,518,950	
Closeout	\$220,000	\$0	\$220,000	
Extra Services	\$140,000	\$0	\$140,000	
Reimbursable & Other Services	\$80,000	\$0	\$80,000	
Cost Estimates	\$0	\$0	\$0	
Advertising	\$20,000	\$0	\$20,000	
Permitting	\$120,000	\$0	\$120,000	
Owner's Insurance	\$200,000	\$0	\$200,000	
Other Administrative Costs	\$260,000	\$0	\$260,000	
Administration Subtotal	\$5,545,100	\$1,277,687	\$4,267,413	\$2,351,345
Architecture and Engineering				
Basic Services				
Design Development	\$3,233,800	\$0	\$3,233,800	
Construction Contract Documents	\$4,921,000	\$1,467,274	\$3,453,726	
Bidding	\$1,124,800	\$0	\$1,124,800	
Construction Contract Administration	\$3,936,800	\$2,442,976	\$1,493,824	
Closeout	\$423,600	\$0	\$423,600	
Other Basic Services	\$0	\$0	\$0	
Basic Services Subtotal	\$13,640,000	\$3,910,250	\$9,729,750	
Reimbursable Services				
Construction Testing	\$60,000	\$0	\$60,000	
Printing (over minimum)	\$40,000	\$0	\$40,000	
Other Reimbursable Costs	\$320,000	\$0	\$320,000	
Hazardous Materials	\$269,830	\$0	\$269,830	
Geotechnical & Geo-Environmental	\$657,170	\$0	\$657,170	
Site Survey	\$44,000	\$0	\$44,000	
Wetlands	\$20,000	\$0	\$20,000	
Traffic Studies	\$209,000	\$0	\$209,000	
Architectural/Engineering Subtotal	\$15,260,000	\$3,910,250	\$11,349,750	\$6,253,712
CM at Risk Preconstruction Services				
Pre-Construction Services	\$258,528	\$0	\$258,528	\$142,449
Site Acquisition				
Land / Building Purchase	\$0	\$0	\$0	
Appraisal Fees	\$0	\$0	\$0	
Recording fees	\$0	\$0	\$0	
Site Acquisition Subtotal	\$0	\$0	\$0	\$0
Construction Costs				
SUBSTRUCTURE				
Foundations	\$3,346,501			
Basement Construction				
SHELL				
Super Structure	\$11,193,910			
Exterior Closure	\$0			
Exterior Walls	\$7,675,712			
Exterior Windows	\$2,825,030			
Exterior Doors	\$214,568			
Roofing	\$3,864,983			
INTERIORS				
Interior Construction	\$10,406,899			
Staircases	\$644,212			
Interior Finishes	\$6,652,009			
SERVICES				
Conveying Systems	\$659,551			
Plumbing	\$4,777,392			
HVAC	\$15,841,045			
Fire Protection	\$1,641,512			
Electrical	\$13,105,173			
EQUIPMENT & FURNISHINGS				
Equipment	\$2,764,897			
Furnishings	\$3,006,832			

SPECIAL CONSTRUCTION & DEMOLITION				
Special Construction	\$0			
Existing Building Demolition	\$1,490,749	\$0		
In-Building Hazardous Material Abatement	\$2,788,000	\$0		
Asbestos Containing Floor Material Abatement	\$412,000	\$412,000		
Other Hazardous Material Abatement	\$0	\$0		
BUILDING SITEWORK				
Site Preparation	\$12,009,188	\$0		
Site Improvements	\$11,247,060	\$0		
Site Civil / Mechanical Utilities	\$5,687,169	\$0		
Site Electrical Utilities	\$2,695,361	\$0		
Other Site Construction	\$3,527,736	\$3,527,736		
Site Cost over Allowance		\$24,549,160		
Construction Trades Subtotal	\$128,477,489	\$28,488,896		
Contingencies (Design and Pricing)	\$2,972,577	\$659,146		
Sub-Contractor Bonds	\$967,972	\$214,640		
P&P Bonds	\$859,074	\$190,493		
General Conditions	\$5,490,124	\$1,217,393		
D/B/B Overhead & Profit	\$5,266,604	\$1,167,829		
GMP Insurance	\$1,892,716	\$419,695		
GMP Fee	\$2,730,000	\$605,357		
GMP Contingency	\$3,409,770	\$756,090		
Escalation to Mid-Point of Construction	\$3,972,793	\$880,936		
Construction Cost over Funding Cap		\$54,675,155		
Construction Budget	\$156,039,119	\$89,275,631	\$66,763,488	\$36,786,682
Alternates				
Ineligible Work Included in the Base Project	\$0	\$0	\$0	
Alternates Included in the Total Project Budget	\$0	\$0	\$0	
Alternates Excluded from the Total Project Budget	\$0		\$0	
Subtotal to be Included in Total Project Budget	\$0	\$0	\$0	\$0
Miscellaneous Project Costs				
Utility Company Fees	\$200,000	\$0	\$200,000	
Testing Services	\$560,000	\$0	\$560,000	
Swing Space / Modulares	\$0	\$0	\$0	
Other Project Costs (Mailing & Moving)	\$360,000	\$360,000	\$0	
Misc. Project Costs Subtotal	\$1,120,000	\$360,000	\$760,000	\$418,760
Furnishings and Equipment				
Furniture, Fixtures, and Equipment	\$1,251,000	\$417,000	\$834,000	
Technology	\$1,251,000	\$417,000	\$834,000	
FF&E Subtotal	\$2,502,000	\$834,000	\$1,668,000	\$919,068
Soft Costs that exceed 20% of Construction Cost			\$0	
Project Budget	\$181,474,747	\$95,657,568	\$85,817,179	\$47,285,266

Board Authorization	
Design Enrollment	695
Total Building Gross Floor Area (GSF)	202,995
Total Project Budget (excluding Contingencies)	\$181,474,747
Scope Items Excluded or Otherwise Ineligible	- \$95,657,568
Third Party Funding (Ineligible)	- \$0
Estimated Basis of Maximum Total Facilities Grant ¹	\$85,817,179
Reimbursement Rate ¹	55.10%
Est. Max. Total Facilities Grant (before recovery) ¹	\$47,285,266
Cost Recovery ²	- \$26,860
Estimated Maximum Total Facilities Grant ¹	\$47,258,406

52.06 Reimbursement Rate Before Incentive Points
3.04 Total Incentive Points
55.10% MSBA Reimbursement Rate
NOTES
This template was prepared by the MSBA as a tool to assist Districts and consultants in understanding MSBA policies and practices regarding potential impact on the MSBA's calculation of a potential Basis of Total Facilities Grant and potential Total Maximum Facilities Grant. This template does not contain a final, exhaustive list of all evaluations which the MSBA may use in determining whether items are eligible for reimbursement by the MSBA. The MSBA will perform an independent analysis based on a review of information and estimates provided by the District for the proposed school project that may or may not agree with the estimates generated by the District using this template.
1 - The Estimated Basis of Total Facilities Grant and Estimated Maximum Facilities Grant amounts do not include any potentially eligible contingency funds and are subject to review and audit by the MSBA.
2. Costs associated with the commissioning of ineligible square footage is estimated to result in the recovery of a portion of the overall commissioning cost. The OPM has estimated this recovery of funds to be \$_____. The proposed demolition of the _____ School is expected to result in the MSBA recovering a portion of state funds previously paid to the District for the _____ project at the existing facilities completed in _____. The MSBA will perform an independent analysis based on a review of its records and information and estimates provided by the District for the proposed school project that may or may not agree with the estimated cost recovery generated by the District and its consultants using this template.

Construction Contingency ³	\$7,250,474
Ineligible Construction Contingency ³	\$5,690,083
"Potentially Eligible" Construction Contingency ³	\$1,560,391
Owner's Contingency ³	\$3,068,373
Ineligible Owner's Contingency ³	\$2,288,177
"Potentially Eligible" Owner's Contingency ³	\$780,196
Total Potentially Eligible Contingency ³	\$2,340,587
Reimbursement Rate	55.10%
Potential Additional Contingency Grant Funds ³	\$1,289,663
Maximum Total Facilities Grant	\$48,548,069
Total Project Budget	\$191,793,594

3 - Pursuant to Section 3.21 of the Project Funding Agreement and the applicable policies and guidelines of the Authority, any project costs associated with the reallocation or transfer of funds from either the Owner's contingency or the Construction contingency to other budget line items shall be subject to review by the Authority to determine whether any such costs are eligible for reimbursement by the Authority. All costs are subject to review and audit by the MSBA.

ID	Task Name	Duration	Start	Finish	Timeline																									
					2020	2021	2022	2023	2024	2025	2026																			
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
135	DESIGN DEVELOPMENT	124 days	11/8/2021	4/29/2022																										
136	SBC Approve DD-CA Agreements	0 days	11/8/2021	11/8/2021	11/8/2021 ◆ SBC Approve DD-CA Agreements																									
137	LEED-S Registration	16 days	11/8/2021	11/30/2021																										
138	Prepare DD Pricing Set	81 days	11/8/2021	3/1/2022																										
139	Geothermal Conductivity Test Prep	0 days	12/6/2021	12/6/2021	12/6/2021 ◆																									
140	Survey Off-Site	12 days	12/6/2021	12/21/2021																										
141	Background Noise Study	6 days	12/10/2021	12/17/2021																										
142	Geothermal Conductivity Test	4 days	12/13/2021	12/16/2021																										
143	DD Programming Meetings	28 days	12/15/2021	1/21/2022																										
144	Geotechnical Test Pits	2 days	12/20/2021	12/21/2021																										
145	Survey On-Site	24 days	12/21/2021	1/21/2022																										
146	Geotechnical Borings	5 days	12/22/2021	12/28/2021																										
147	GeoEnvironmental Probes	2 days	12/23/2021	12/24/2021																										
148	Hazardous Materials Investigation	4 days	12/27/2021	12/30/2021																										
149	Hazardous Materials Investigation	4 days	2/22/2022	2/25/2022																										
150	Issue Complete DD Pricing Set	0 days	2/28/2022	2/28/2022	2/28/2022 ◆ Issue Complete DD Pricing Set																									
151	OPM and Cx Review	10 days	2/28/2022	3/11/2022																										
152	Estimates Due from PM&C and Consigli	0 days	3/18/2022	3/18/2022	3/18/2022 ◆ Estimates Due from PM&C and Consigli																									
153	Estimate Reconciliation Meeting	0 days	3/22/2022	3/22/2022	3/22/2022 ◆ Estimate Reconciliation Meeting																									
154	Revised Reconciled Estimates Due	0 days	3/24/2022	3/24/2022	3/24/2022 ◆ Revised Reconciled Estimates Due																									
155	Present CM Cost Estimate and Value Engineering List to SSBC	0 days	3/28/2022	3/28/2022	3/28/2022 ◆ Present CM Cost Estimate and Value Engineering List to SSBC																									
156	Present Final Value Engineering to SSBC	0 days	4/4/2022	4/4/2022	4/4/2022 ◆ Present Final Value Engineering to SSBC																									
157	SSBC Vote to Approve Design Development Submission	0 days	4/4/2022	4/4/2022	4/4/2022 ◆ SSBC Vote to Approve Design Development Submission																									
158	Design Development Submission to MSBA	0 days	4/8/2022	4/8/2022	4/8/2022 ◆ Design Development Submission to MSBA																									
159	MSBA Comments	15 days	4/11/2022	4/29/2022																										
160	SITE PERMITTING	172 days	11/8/2021	7/7/2022																										
161	Stoneham Conservation Commission - ANRAD (Not Required - Delineation Reviewed with NOI)	41 days	11/8/2021	1/4/2022																										
168	Stoneham Conservation Commission - NOI	170 days	11/8/2021	7/5/2022																										
169	Prepare Application Documents	130 days	11/8/2021	5/9/2022																										
170	File Application	0 days	5/9/2022	5/9/2022	5/9/2022 ◆ File Application																									
171	Hearing No. 1	0 days	5/23/2022	5/23/2022	5/23/2022 ◆ Hearing No. 1																									
172	Hearing No. 2	0 days	6/6/2022	6/6/2022	6/6/2022 ◆ Hearing No. 2																									
173	Conservation Commission Issue Order of Conditions	10 days	6/7/2022	6/20/2022																										
174	Record at Registry of Deeds	0 days	6/21/2022	6/21/2022	6/21/2022 ◆																									
175	Appeal Period	10 days	6/21/2022	7/5/2022																										
176	Stormwater Board Approval	11 days	5/9/2022	5/24/2022																										
177	Submit Stormwater Board Approval Application	0 days	5/9/2022	5/9/2022	5/9/2022 ◆ Submit Stormwater Board Approval Application																									
178	Hearing No. 1	0 days	5/24/2022	5/24/2022	5/24/2022 ◆ Hearing No. 1																									
179	Stormwater Award Approval	0 days	5/24/2022	5/24/2022	5/24/2022 ◆ Stormwater Award Approval																									
180	Zoning Board of Appeals	35 days	5/6/2022	6/23/2022																										
181	Submit Variance Request	0 days	5/6/2022	5/6/2022	5/6/2022 ◆ Submit Variance Request																									
182	Hearing No. 1	0 days	5/26/2022	5/26/2022	5/26/2022 ◆ Hearing No. 1																									
183	ZBA Issues Decision	10 days	5/27/2022	6/9/2022																										
184	Record at Registry of Deeds	0 days	6/10/2022	6/10/2022	6/10/2022 ◆ Record at Registry of Deeds																									

ID	Task Name	Duration	Start	Finish	2020 2021 2022 2023 2024 2025 2026																							
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
238	90% Construction Documents Submission to MSBA	0 days	9/28/2022	9/28/2022	9/28/2022 ◆ 90% Construction Documents Submission to MSBA																							
239	MSBA Review of 90% CD Submission	15 days	9/29/2022	10/19/2022	◆																							
240	Incorporate MSBA 90% CD Comments	10 days	10/19/2022	11/1/2022	◆																							
241	Construction Documents Complete Package No. 3	0 days	11/4/2022	11/4/2022	11/4/2022 ◆ Construction Documents Complete Package No. 3																							
242	LEED-S Design Submission	11 days	11/4/2022	11/18/2022	◆																							
243	PROCUREMENT	232 days	2/15/2022	1/9/2023	[]																							
244	Prequalification - Package No. 1	50 days	2/15/2022	4/25/2022	[]																							
245	Draft RFQ	28 days	2/15/2022	3/24/2022	◆																							
246	Submit to Advertisement to Central Register and Local Newspaper	0 days	3/24/2022	3/24/2022	3/24/2022 ◆ Submit to Advertisement to Central Register and Local Newspaper																							
247	Notice in Central Register	0 days	3/30/2022	3/30/2022	3/30/2022 ◆ Notice in Central Register																							
248	Submit SOQs	0 days	4/15/2022	4/15/2022	4/15/2022 ◆ Submit SOQs																							
249	Review SOQs	5 days	4/18/2022	4/22/2022	◆																							
250	Recommend Prequalified Subcontractors to SSBC	0 days	4/22/2022	4/22/2022	4/22/2022 ◆ Recommend Prequalified Subcontractors to SSBC																							
251	Issue Notification Letters to Prequalified Subcontractors	0 days	4/25/2022	4/25/2022	4/25/2022 ◆ Issue Notification Letters to Prequalified Subcontractors																							
252	Prequalification - Package No. 2	43 days	4/15/2022	6/14/2022	[]																							
253	Draft RFQ	7 days	4/15/2022	4/25/2022	◆																							
254	Submit Advertisement to Central Register and Local Newspaper	0 days	4/28/2022	4/28/2022	4/28/2022 ◆ Submit Advertisement to Central Register and Local Newspaper																							
255	Notice in Central Register	0 days	5/4/2022	5/4/2022	5/4/2022 ◆ Notice in Central Register																							
256	Submit SOQs	0 days	5/19/2022	5/19/2022	5/19/2022 ◆ Submit SOQs																							
257	Review SOQs	12 days	5/20/2022	6/6/2022	◆																							
258	Recommend Prequalified Subcontractors to SSBC	0 days	6/13/2022	6/13/2022	6/13/2022 ◆ Recommend Prequalified Subcontractors to SSBC																							
259	Issue Notification Letters to Prequalified Subcontractors	0 days	6/14/2022	6/14/2022	6/14/2022 ◆ Issue Notification Letters to Prequalified Subcontractors																							
260	Prequalification - Package No. 3	62 days	7/15/2022	10/11/2022	[]																							
261	Draft RFQ	23 days	7/15/2022	8/16/2022	◆																							
262	Submit Advertisement to Central Register and Local Newspaper	0 days	8/16/2022	8/16/2022	8/16/2022 ◆ Submit Advertisement to Central Register and Local Newspaper																							
263	Notice in Central Register	0 days	8/24/2022	8/24/2022	8/24/2022 ◆ Notice in Central Register																							
264	Submit SOQs	0 days	9/12/2022	9/12/2022	9/12/2022 ◆ Submit SOQs																							
265	Review SOQs	16 days	9/12/2022	10/3/2022	◆																							
266	Recommend Prequalified Subcontractors to SBC	0 days	10/10/2022	10/10/2022	10/10/2022 ◆ Recommend Prequalified Subcontractors to SBC																							
267	Issue Notification Letters to Prequalified Subcontractors	0 days	10/11/2022	10/11/2022	10/11/2022 ◆ Issue Notification Letters to Prequalified Subcontractors																							
268	Construction Documents Complete Package No. 3	54 days	10/25/2022	1/9/2023	[]																							
269	Submit Advertisement to Central Register and Newspaper	0 days	10/25/2022	10/25/2022	10/25/2022 ◆ Submit Advertisement to Central Register and Newspaper																							
270	Notice in Central Register	0 days	11/2/2022	11/2/2022	11/2/2022 ◆ Notice in Central Register																							
271	Issue Trade Contractor Bid Package	0 days	11/4/2022	11/4/2022	11/4/2022 ◆ Issue Trade Contractor Bid Package																							
272	Pre-Bid Meeting	0 days	11/8/2022	11/8/2022	11/8/2022 ◆ Pre-Bid Meeting																							
273	Trade Contractor Bid Due	0 days	12/2/2022	12/2/2022	12/2/2022 ◆ Trade Contractor Bid Due																							
274	CM Develop GMP	45 days	11/4/2022	1/6/2023	◆																							
275	GMP Approval	0 days	1/9/2023	1/9/2023	1/9/2023 ◆ GMP Approval																							
276	EARLY PACKAGES PROCUREMENT	71 days	4/28/2022	8/8/2022	[]																							
277	Early Site Enabling Package No. 1	28 days	4/28/2022	6/6/2022	[]																							
278	Submit Central Register	0 days	4/28/2022	4/28/2022	4/28/2022 ◆ Submit Central Register																							
279	Central Register Notice	0 days	5/4/2022	5/4/2022	5/4/2022 ◆ Central Register Notice																							
280	Release Early Site Enabling and Preparation Package to Bid	0 days	5/9/2022	5/9/2022	5/9/2022 ◆ Release Early Site Enabling and Preparation Package to Bid																							
281	Pre-Bid Meeting	0 days	5/12/2022	5/12/2022	5/12/2022 ◆ Pre-Bid Meeting																							

