

BROOKLINE HIGH SCHOOL EXPANSION

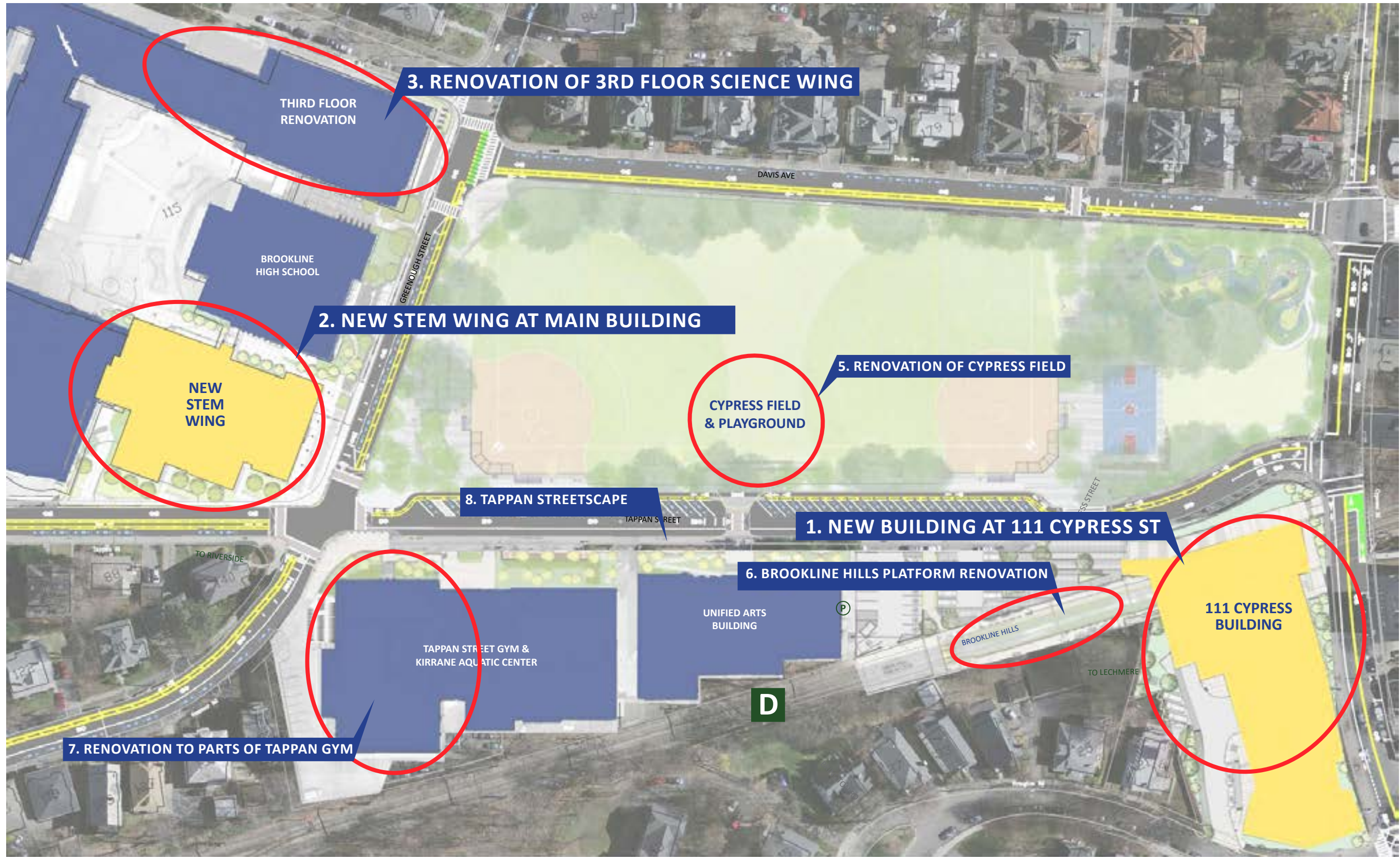
**BHS ADVISORY COMMITTEE MEETING
JANUARY 22, 2020**



BROOKLINE HIGH SCHOOL EXPANSION



SCOPE OF BROOKLINE HIGH SCHOOL EXPANSION PROJECT



0' 50' 100' 200'

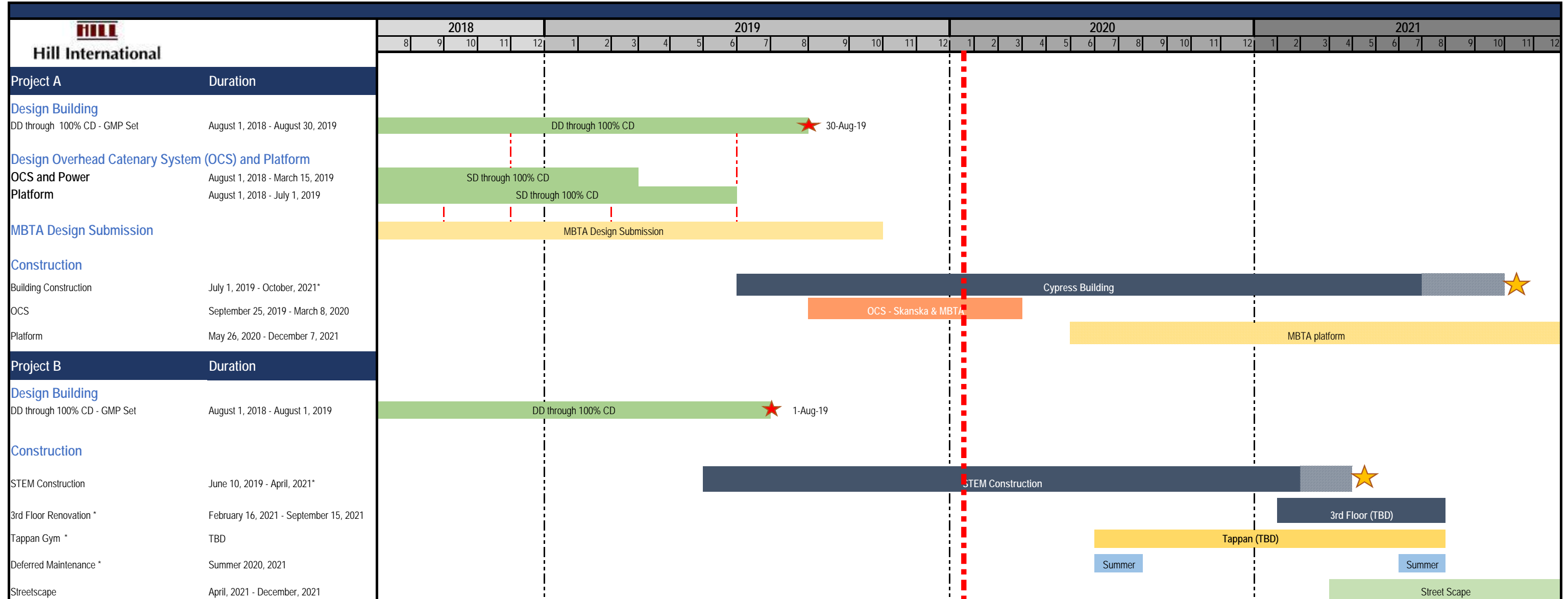


AGENDA

- 1. Construction Progress Update**
- 2. MBTA OCS / Station Progress Update including Pedestrian Access Review**
- 3. Design Update**
- 4. Procurement Update**
- 5. Q&A**



Brookline High School Expansion Project DRAFT Summary Schedule



★ Ongoing review for mitigation options to schedule impact

1. CONSTRUCTION PROGRESS UPDATE



SKANSKA BROOKLINE HIGH SCHOOL EXPANSION PROJECT: STEM PROGRESS PHOTOS



BHS Expansion Building Committee Meeting: January 22, 2020

STEM - Looking east at spread footing placement.



BHS Expansion Building Committee Meeting: January 22, 2020

SKANSKA BROOKLINE HIGH SCHOOL EXPANSION PROJECT: STEM PROGRESS PHOTOS



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SKANSKA BROOKLINE HIGH SCHOOL EXPANSION PROJECT: CYPRESS PROGRESS PHOTOS

Cypress - Looking west at north side of track SOE and mini piles.



BHS Expansion Building Committee Meeting: January 22, 2020

SKANSKA BROOKLINE HIGH SCHOOL EXPANSION PROJECT: CYPRESS PROGRESS PHOTOS



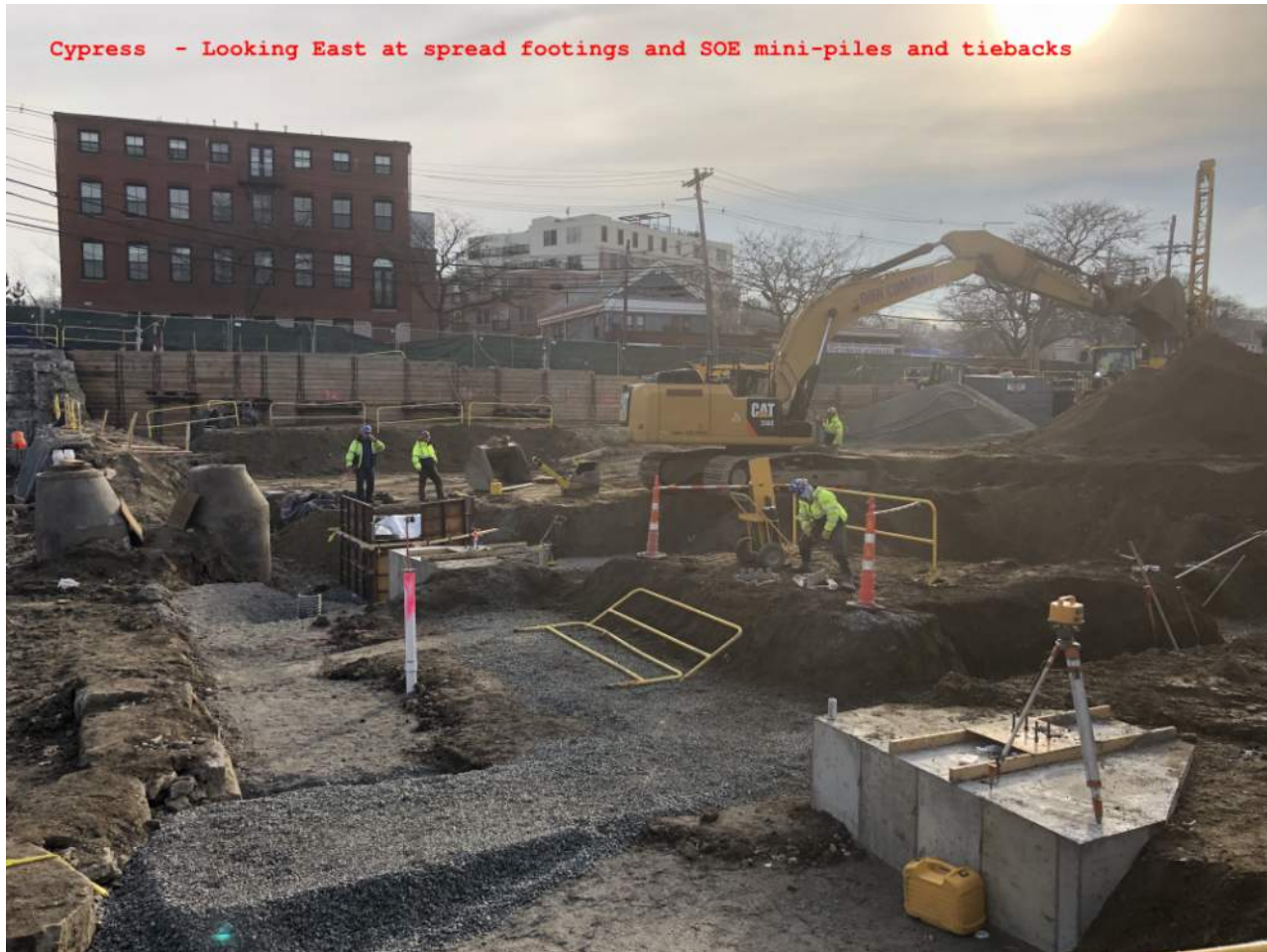
BHS Expansion Building Committee Meeting: January 22, 2020

SKANSKA BROOKLINE HIGH SCHOOL EXPANSION PROJECT: CYPRESS PROGRESS PHOTOS



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SKANSKA BROOKLINE HIGH SCHOOL EXPANSION PROJECT: MBTA PROGRESS PHOTOS



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SKANSKA BROOKLINE HIGH SCHOOL EXPANSION PROJECT: MBTA PROGRESS PHOTOS



BHS Expansion Building Committee Meeting: January 22, 2020

SKANSKA BROOKLINE HIGH SCHOOL EXPANSION PROJECT: MBTA PROGRESS PHOTOS



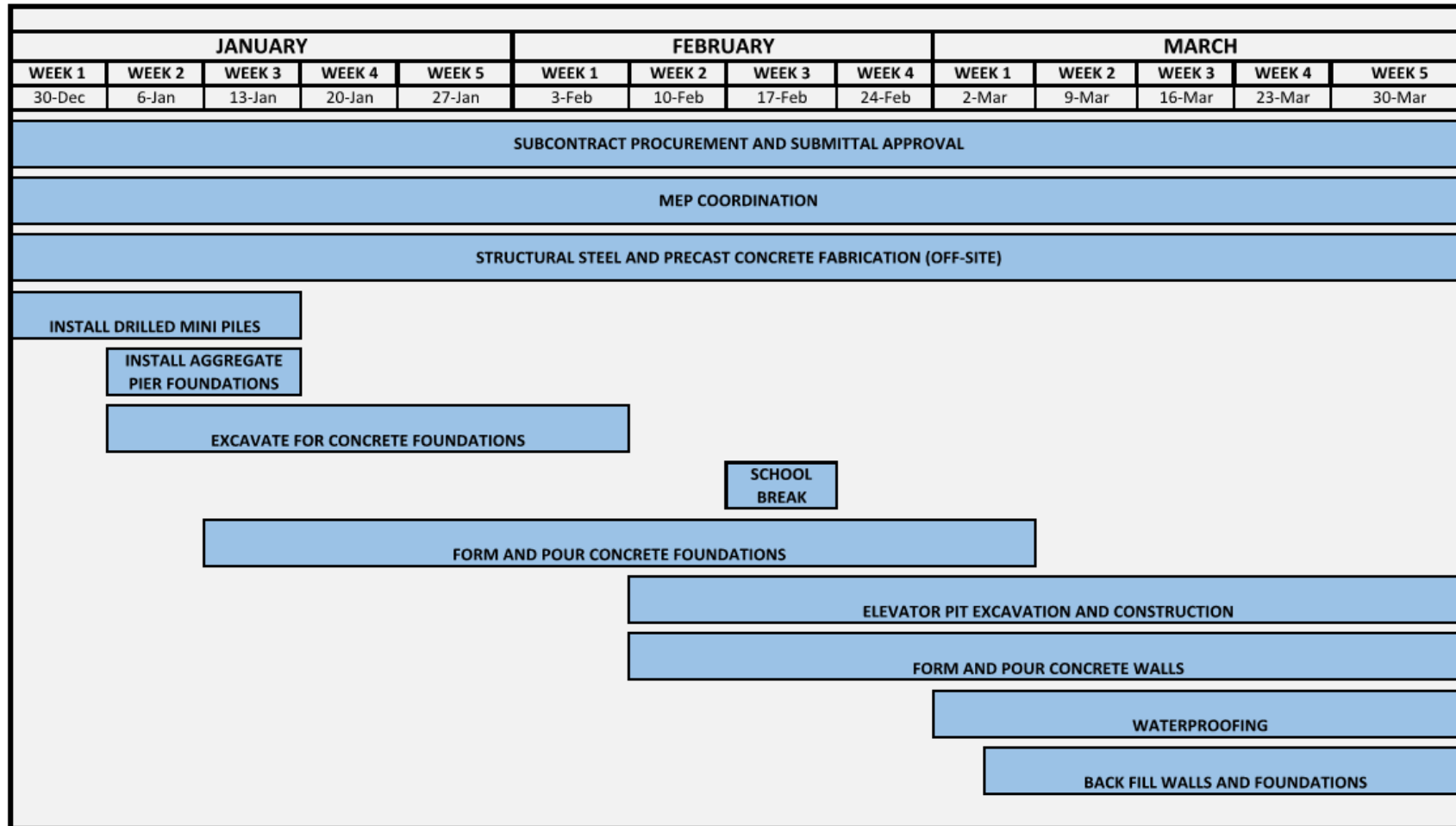
BHS Expansion Building Committee Meeting: January 22, 2020

SKANSKA BROOKLINE HIGH SCHOOL EXPANSION PROJECT: MBTA PROGRESS PHOTOS

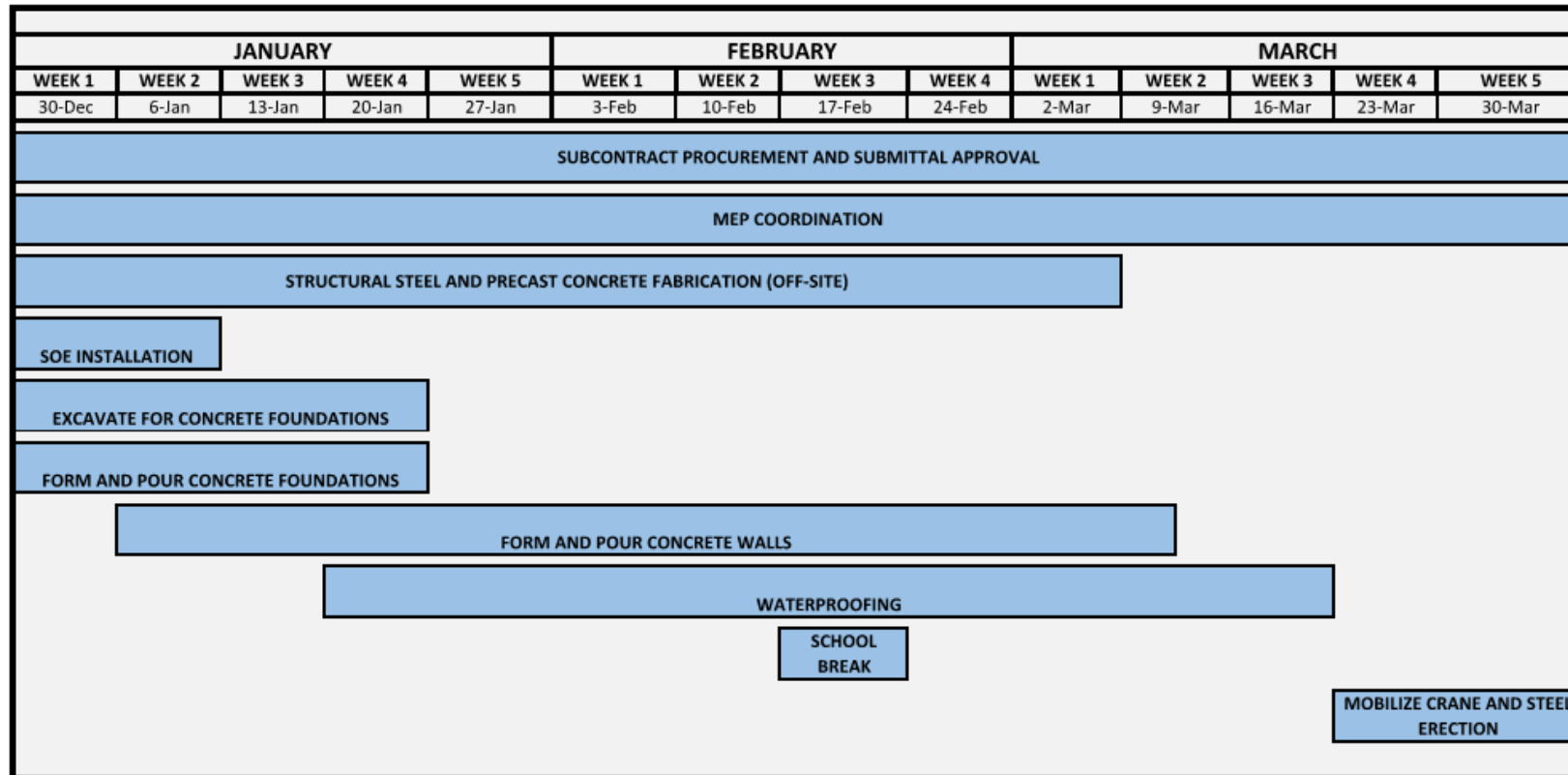
MBTA - Drilling test pile for OCS support

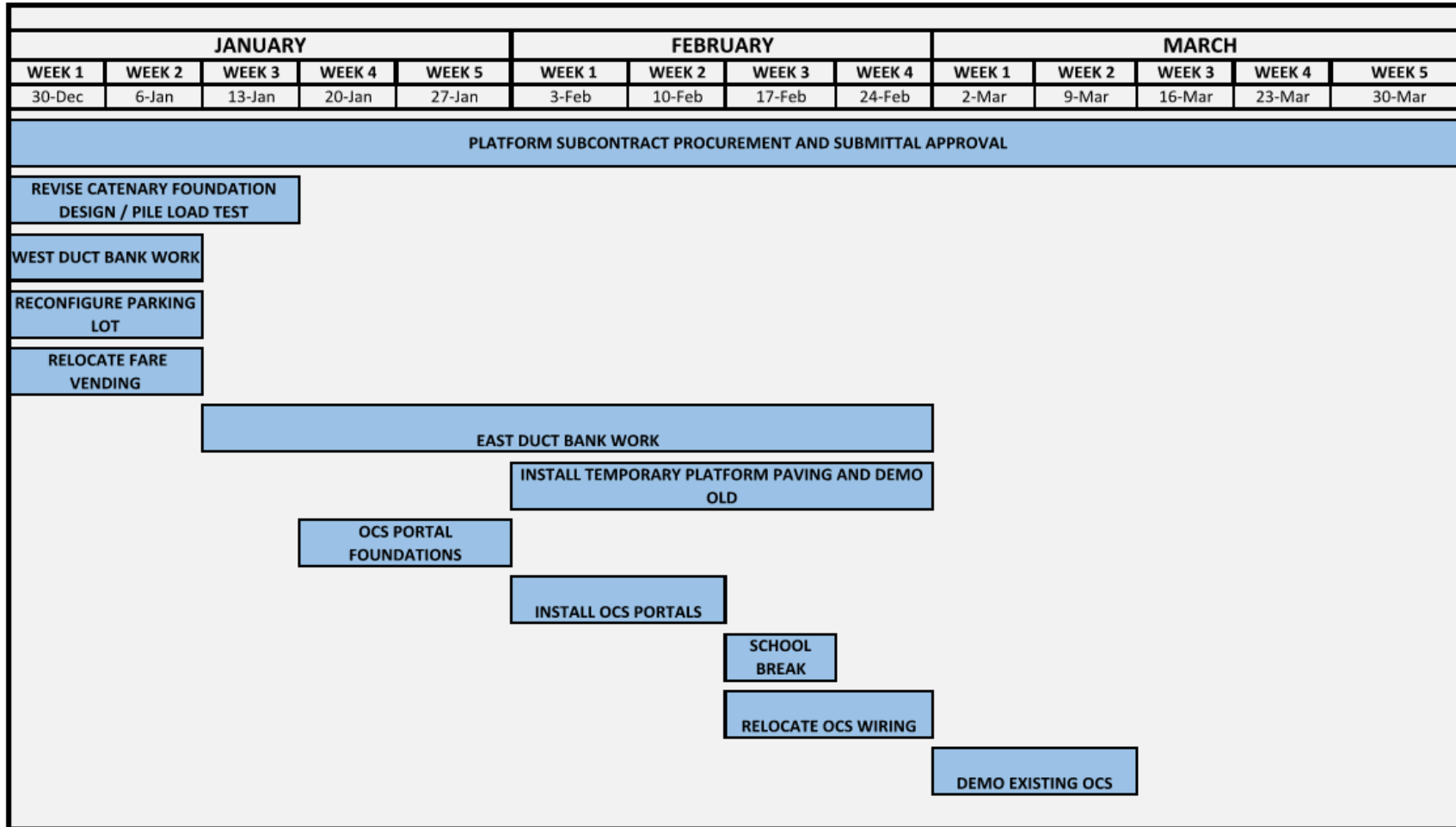


BHS Expansion Building Committee Meeting: January 22, 2020



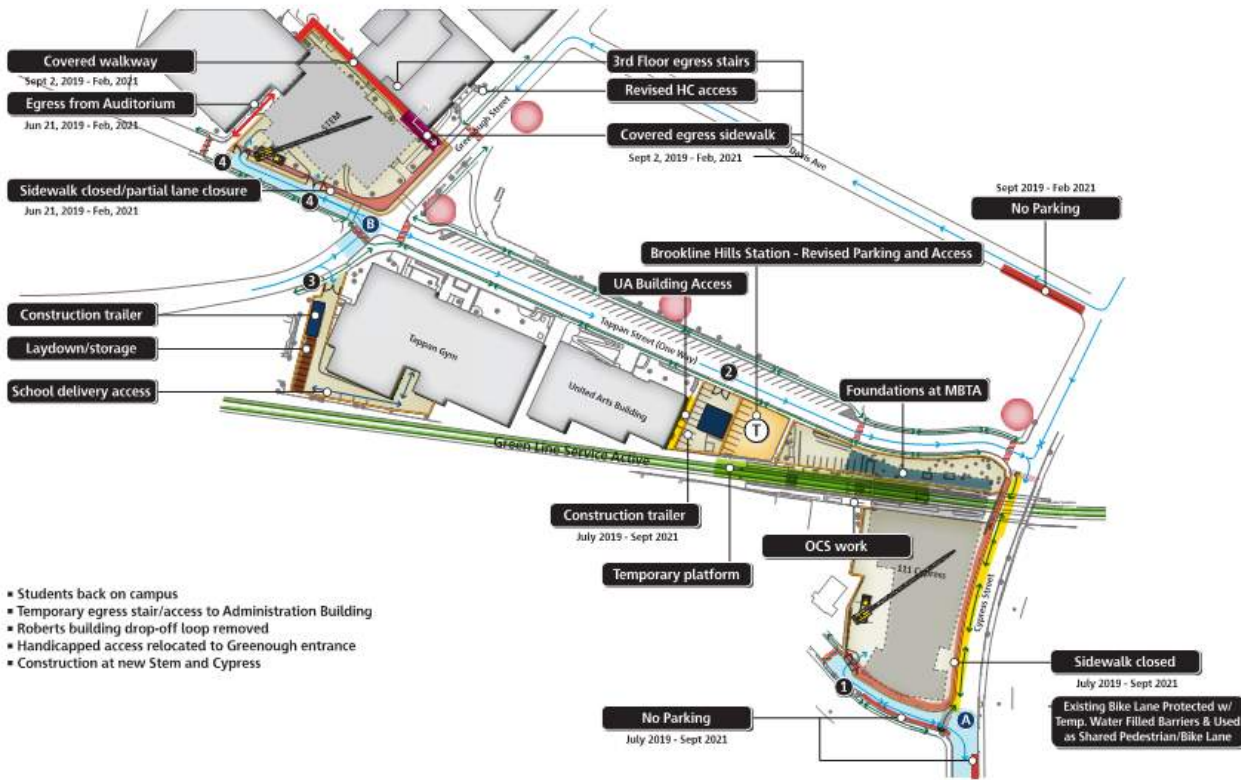
BHS Expansion Building Committee Meeting: January 22, 2020





BHS Expansion Building Committee Meeting: January 22, 2020

SKANSKA BROOKLINE HIGH SCHOOL EXPANSION PROJECT: OVERALL LOGISTICS PHASE 2



- Students back on campus
- Temporary egress stair/access to Administration Building
- Roberts building drop-off loop removed
- Handicapped access relocated to Greenough entrance
- Construction at new Stem and Cypress

Phase 2

Foundations, Steel and Utilities

111 Cypress:

- Foundation/utilities
- Start steel erection
- Erect pre-cast platform over Green Line

Brookline Hills T:

- Build temporary platform
- Relocate OCS

STEM:

- Foundations
- Start steel
- Site utilities
- Covered sidewalk
- Temporary 3rd floor egress stairs
- Temporary auditorium egress

Traffic/Deliveries:

- 60 per day
- A** Traffic holds north & south at Cypress deliveries
- B** Traffic holds at Tappan/Greenough for deliveries
- Police details required

Construction Key

- Construction gate
- Construction fence
- Construction traffic
- Pedestrian flow
- Temporary crosswalk
- Muster area

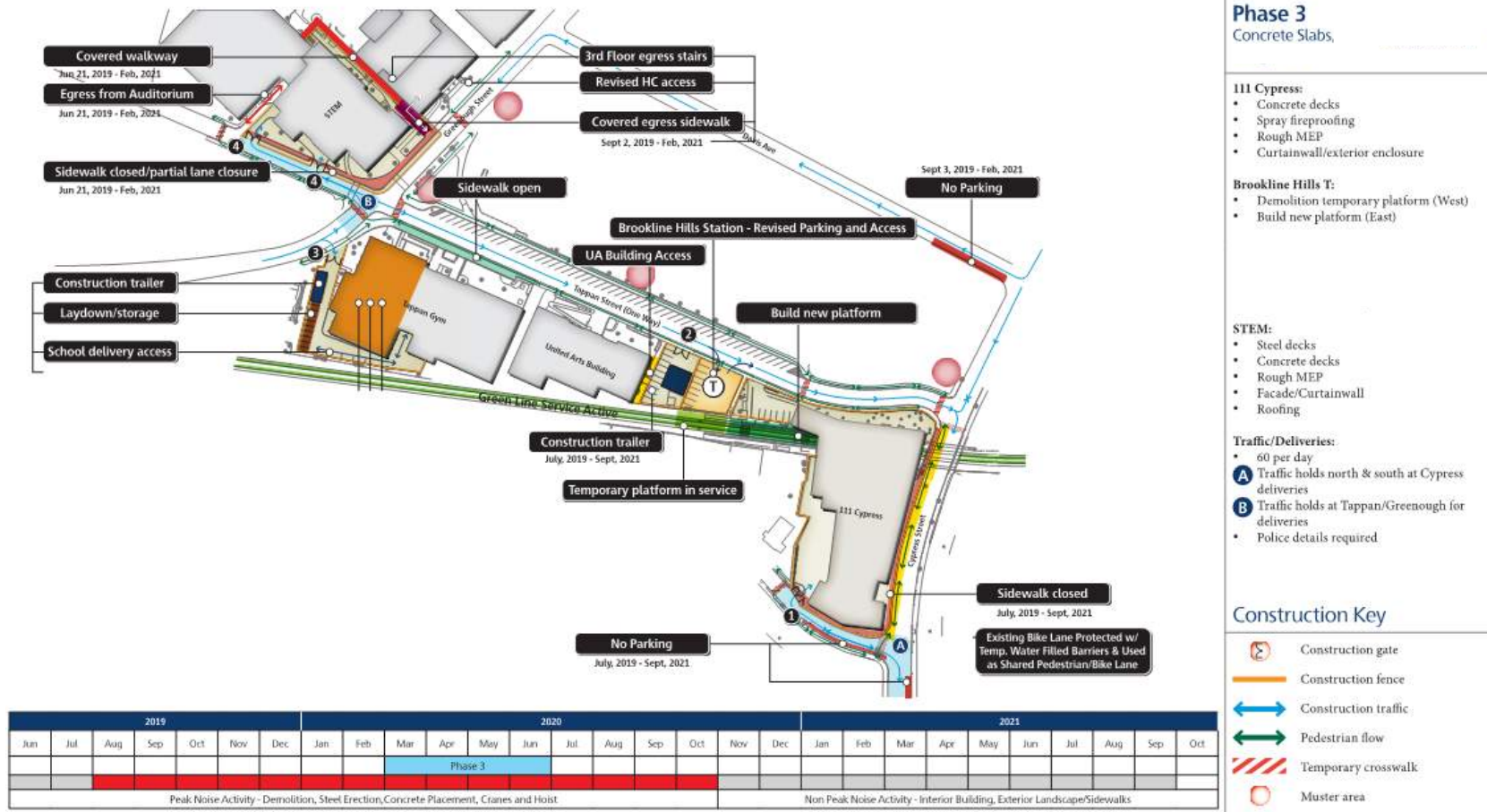
2019				2020								2021																			
Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct			
			Phase 2																												
Peak Noise Activity - Demolition, Steel Erection, Concrete Placement, Cranes and Hoist																Non Peak Noise Activity - Interior Building, Exterior Landscape/Sidewalks															

Brookline High School
Brookline, MA

Logistics Plan: R1 - August 2019 Scale: NTS



BHS Expansion Building Committee Meeting: January 22, 2020



Brookline High School
Brookline, MA

Logistics Plan: R1 - August 2019 Scale: NTS



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2. MBTA OCS / Station Progress Update Including Pedestrian Access Review





Winter 2019 to Spring 2020

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SKANSKA BROOKLINE HIGH SCHOOL EXPANSION PROJECT: MBTA LOGISTICS



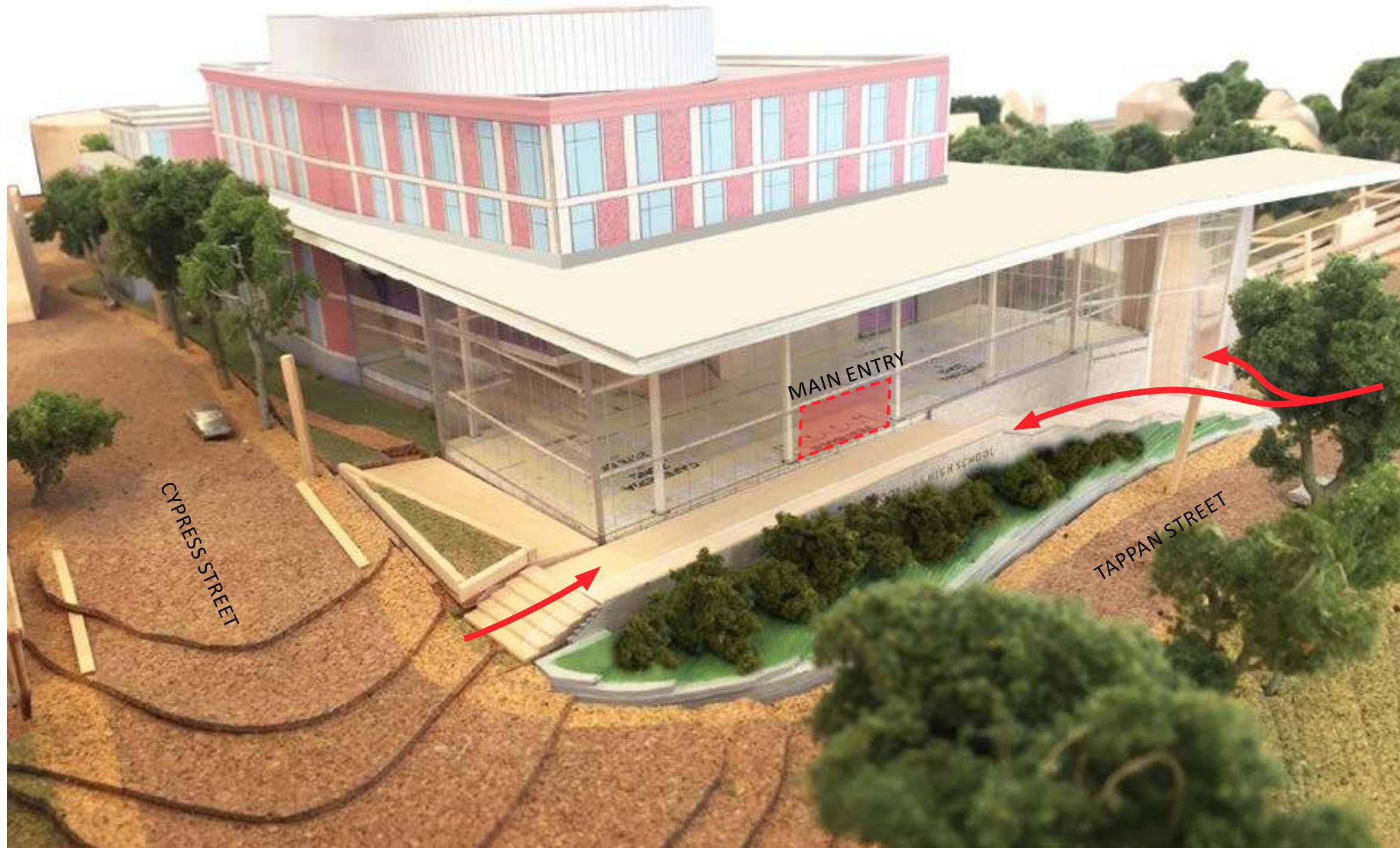
Spring 2020

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3. DESIGN UPDATE: CYPRESS BUILDING

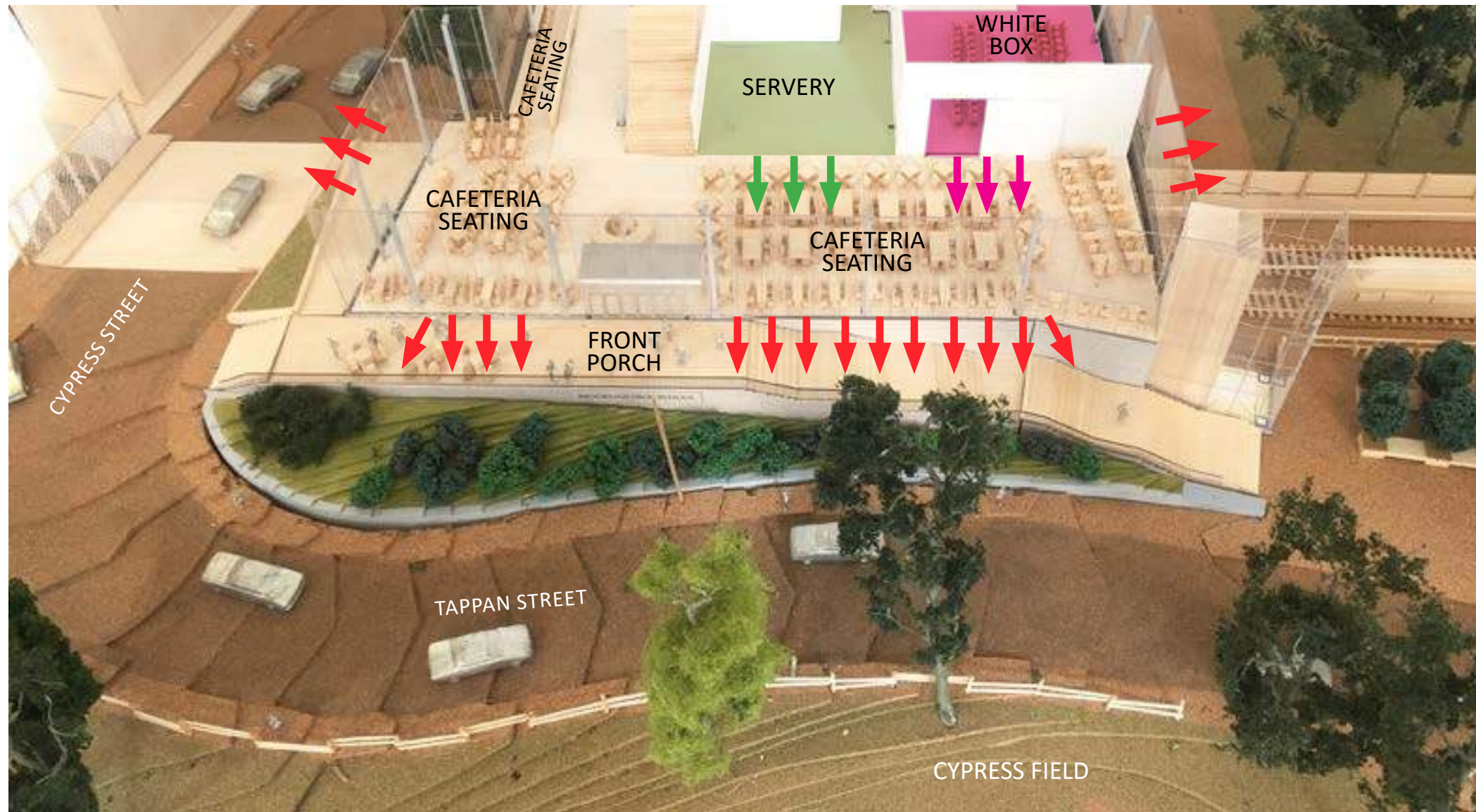


111 CYPRESS: A CIVIC PRESENCE



“LEANING IN”: MAJOR PUBLIC SPACES FRONTING CYPRESS FIELD

WHITE BOX - MULTIPLE USES:



LEVEL 1



LECTURES / MEETINGS



CLASSES



PERFORMANCE

CYPRESS BUILDING CAFETERIA



*CONCEPTUAL FURNITURE COLOR SHOWN

CYPRESS BUILDING CAFETERIA - SERVERY DOORS OPEN



**CONCEPTUAL FURNITURE COLOR SHOWN*



CYPRESS BUILDING CAFETERIA



**CONCEPTUAL FURNITURE COLOR SHOWN*

CYPRESS BUILDING HALLWAY LEVEL 1 COLOR



CYPRESS BUILDING HALLWAY LEVEL 2 COLOR



CYPRESS BUILDING HALLWAY LEVEL 3 COLOR



CYPRESS BUILDING HALLWAY LEVEL 4 COLOR



EXISTING HIGH SCHOOL COLLABORATION SPACE



CYPRESS BUILDING PHYSICS COLLABORATION



CYPRESS BUILDING SOUTH COLLABORATION LEVEL 1



EXISTING HIGH SCHOOL CLASSROOM



GENERAL USE CLASSROOM - SOUTH WALL



GENERAL USE CLASSROOM - NORTH WALL



4. PROCUREMENT UPDATE



PROCUREMENT SUMMARY BY SUB PROJECT				
	Cypress	STEM	MBTA	Tappan Gym, 3 rd Floor Renovation, Streetscapes, Deferred Maintenance
60% Estimated Direct Cost + Design and Escalation Contingency	\$65,400,000	\$40,900,000	\$9,100,000	\$17,000,000
Value Procured to Date	\$55,375,000	\$35,900,000	\$11,300,000	\$1,000,000
% of Value Procured to Date	86%	88%	100%	5%
Quantity of Expected Bid Packages	49	60	2	30
Bid Packages Procured to Date	26	44	2	1
% of Bid Packages Procured to Date	53%	73%	100%	3%
<ul style="list-style-type: none"> • Values based on reconciled 60% CD Estimate with VM and Risk • Procured Values include Pre-GMP Amendment 13, Approved 1/14/20. • Procured Values do not include General Requirements 				

PROCUREMENT SUMMARY BY SUB PROJECT		
Subproject	TRADES PROCURED	TO BE PROCURED
Cypress	Demolition, Sitework, Foundations, Structure, Mason, Glass Façade, Interior Construction, Interior Finishes & Elevators, MEP's	Interior Finishes, Specialties, Audiovisual, Hardscape, Landscape
STEM	Enabling, Demolition, Sitework, Foundations, Structure, Exterior Enclosure, Interior Construction, Interior Finishes, Elevators & MEP's	Interior Finishes, Specialties, Audiovisual, Hardscape, Landscape
MBTA	Enabling and Overhead Catenary and Platform	None
Tappan Gym, 3 rd Floor Renovation, Streetscapes, Deferred Maintenance	Elevator Modernization	TBD

Cost Control Efforts

- Dual estimate reconciliations @ DD & 60%CD: both ended w/in 2% variance of each other; however DD = 2% overbudget, 60% = 3% overbudget, prior to Value Engineering (VE) efforts.
- VE efforts each estimate phase, not including risk items:
 - DD: +47 accepted VE items totaling (\$3M)
 - 60% CD: +43 accepted VE items totaling (\$5M)
- Several scope/bid review meetings prior to Recommendations to Award.
- Reviewed labor rates & unit costs

Cumulative Bid trends vs 60%CD adjusted estimates

- Procured 88% value of STEM ~ 9% over
- Procured 86% value of Cypress ~ 10% over
- Procured 100% value of MBTA OCS/platform ~ 24% over

Critical areas of focus

- Target Skanska GMP DRAFT for Cypress, STEM and MBTA in Feb-Mar 2020
- Winter weather poses potential risks with canceling planned MBTA diversions. On-going weekly access coordination and planning with MBTA for daytime and off-hours work
- Confirm scope direction for balance of Projects: Tappan, 3rd Floor, Deferred Maintenance

VISIT BHS EXPANSION PROJECT WEBSITE

<http://bhs.brookline.k12.ma.us/expansion-project.html>



Q & A



END

