

LINCOLN-ELIOT ELEMENTARY SCHOOL DRC MEETING

NEWTON, MA 09 AUGUST 2023



PREPARED FOR









Ruthanne Fuller, Mayor





AGENDA /

- 1 DRC COMMENTS & RESPONSES
- **2 SITE PLAN UPDATE**
- **3 MONUMENT SIGN**

DRC REVIEW COMMENTS & DESIGN TEAM RESPONSES

	А	В	C	D	
1	NEWTON - Lincoln	-Eliot DRC COMME	NTS		
2	Section	Comment from		DRC Comment	Designer Response
3	HVAC				
4	HVAC	Peter Barrer	M0.10	Performance of air cooled condensing units not specified	All schedules shall be completed for
5	HVAC	Peter Barrer	M0.10	Air handler sound power levels and sound attenuators not specified	All schedules shall be completed for
6	HVAC	Peter Barrer	M0.10	VAV box cfm not specified	All schedules shall be completed for
	HVAC	Peter Barrer	M0.10	RTU schedule. Supplemental resistance heat is greater than heat pump capacity. Heat pump only heats to 70 deg. Supplemental heats to 85 deg. Looks like always depending	Supplemental Electric Heat is greater
				on resistance heat in colder weather. Meaning of column "SA temp 70 deg" in	provided with SCR control for increas
					when ambient is below 10°F, therefo
7					
8	HVAC	Peter Barrer	M0.10	in; what is its heating source? Remove makeup air unit from schedule sheet	ambient. The SA temp is the design Makeup air unit has been removed f
	HVAC	Peter Barrer	10.10		Condensate has been coordinated a
		-		VRF condensate piping not shown or sized	
	HVAC	Peter Barrer		Need temperature control in all spaces.	Agreed. Electric Radiant panels or VF
				Concern that we do not have temperature control in all occupied rooms with closed	
				doors; does this meet Newton project requirements? For example, Breakout 114, which	
				has a constant volume damper 50 cfm with no temperature control. Also see for	
10				example Breakout Room 116, which has no means of temperature control and no VAV	
10		Datas Dassas		or CVD damper to manage airflow.	
	HVAC	Peter Barrer	M3.2	Control sequences dwg M3.2. Needs thorough work and thought.	Agreed, control drawings shall be rev
				Titles in sequences for RTU's 1-9 do not conform to schedules (some refer to indoor air	
				handling units). Controls show electric preheat but there is no electric preheat in	
				schedules. AHU-10 shows fixed heat recovery section, specs call for wheel. RTU	
11				sequence refers to primary water heating in warmup paragraph.	
	HVAC	Peter Barrer	Commissioning Spec:	1.6.B.1. Add VRF system to the list of the HVAC systems to be commissioned and	Spec section shall be updated accord
12				documented.	
	HVAC	Peter Barrer	Other comments regarding	Dwg 2.24C consider designating location of future solar panels	The solar PV panels designated areas
			roof plans:		refer to sheet A2.24A, A2.24B, A2.4C
13		Datas Dassas		LIVAC Consolidate locations of reafter activity work to maximize evolution bility of clear energy	
	HVAC	Peter Barrer		HVAC Consolidate locations of rooftop equipment to maximize availability of clear space	we shall review with the architect fo
11				for future solar panels. For example EF-3 and all DCU's. See A2.24A, B, C.	
14 15	Plumbing				
_	Plumbing	Peter Barrer		Plumbing: Move locations of roof vent locations near other rooftop equipment to	AST - Noted and will coordinate.
	5			maximize the availability of clear space for future solar panels. See A2.24A, B, C.	
16					
	Plumbing	Peter Barrer		Also please check coordination of roof drains and HVAC equipment locations. (I did not	AST - Noted and will coordinate.
17				have time to check this).	
18	Energy Model				
		Peter Barrer		There is a lot of electric resistance heating including in RTU's. Is this reflected in the	Yes. However note that the electric h
				energy model?	below 10°F. At 10°F and above the h
					air temperature. The electric resistar
19					failure.

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or the final 100% CD submission

or the final 100% CD submission

or the final 100% CD submission

ter due to limited sizes (for example they don't make a 43 kW ide the next available size, which is 50 kW) Electric heat is eased efficiency/temp control. Heat pump section shuts off efore electric resistance heat shall only be active below 10°F in supply air temp.

from the schedule.

and will be shown for future submissions.

VRF units shall be added as needed.

eviewed thoroughly and revised accordingly.

rdingly.

eas are usually located on the architectural roof plans. Please 4C. Solect provided an update on estimated PV system.

for the possibility of this revision

c heating section should only be active when the ambient is heat pump section is capable of heating to our desired supply cance heating can also be used in the event of a heat pump

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1	NEWTON - Lincolr	-Eliot DRC COMME	NTS		
2	Section	Comment from		DRC Comment	Designer Response
20	Misc.				
21	Misc.	Amy MacKrell	Water Bubbler #1	We need to include an outdoor water bubbler/water bottle filler. I show suggested location which works well with playground and has plumbing available from bathrooms. The preference is to have a wall mounted bubbler so the shut off can be located inside. also showed a H.B. there.	AST - An outdoor bubbler with bottle valve is planned to be on the interior bubbler.
22	Misc.	Amy MacKrell	Water Bubbler #2	See if we can add an H.B. on the addition facing the playground. I see plumbing has a H.B. on the addition facing Waban which is good. Could some look at existing plumbing documents and confirm locations of existing H.B.'s and include requirement to make sure they work (replace). I believe we use ones where there is a key or removable turn valve to prevent people from using the water.	AST - A hose bib is shown on the externation externation of the exte
23 24	Misc.	Amy MacKrell	ADA locker locations	ADA Locker locations to be identified.	AST - Accessible lockers are being spo utilized in any of the bottom lockers.
	G0.01	Thomas Gloria	General	under the 2030 Challenge Summary , will these attributes be completed?	AST - these will be completed for the
_	Interior		General	under the 2050 Chanenge Summary , win these attributes be completed?	ASI - these will be completed for the
27	Interior	Amy MacKrell	Corridor Floor Pattern	Corridor floor pattern has many color transitions. I don't recall seeing a rendering of this Would be good to see to confirm the pattern is working with what's happening on the walls.	it has been approved by the Working
28	Interior	Amy MacKrell	Ceiling Panels	Not clearly identified on the RCP's. I'm also concerned about the multiple colors - seems visually busy as well as difficult to achieve with public bidding.	AST - For the lobby, we have 3 colors confirm there are 3 or more equal pr
29	Interior	Amy MacKrell	ADA lockers	locations to be identified	AST - Accessible lockers are being spo utilized in any of the bottom lockers.
30	Landscape				
	Landscape	SingNing Kuo	L1.03 Playground - Swing set	Rotate the swing set to be parallel to the basketball court	AST - The playground layout has been and Park and Rec. Safety clearances to completely accessible required a larg play area. The design has balanced of desire to create a fully accessible play
31					
32	Landscape	SingNing Kuo	L1.04 Playground - Surfacing	Peral color will become gray overtime and lose the contrast in this color pallet	AST - The colors were reviewed and s The Pearl Gray has been used by the neutral background color. The contra
33	Landscape	SingNing Kuo	L2.01 Stairs at Cafeteria exterior	Rotate the stairs to accommodate people coming from the lower walkway	AST - Adjusting the location of the st
34	Landscape	SingNing Kuo	L2.01 Benches on cross site walkway	Locate 2 benches to the other side of the walkway for a better view down to the field	AST - Benches will remain on the fiel the walkway where the grade is slop
35	Landscape	SingNing Kuo	L2.02 Walnut Park pollinator garden	Is it possible to make the shape a bit more interesting?	AST - Will adjust the shape of the pol

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tle filler is being added near the cafeteria exterior doors. Shutoff or (behind the bubbler). We will include a hose bib near the

xterior wall facing the south (towards the playground). Any acement due to lead pipes.

specified with adjustment bottom shelves and they can be 's.

he final CDs.

patterns and colors with the Working Group extensively and had ng Group.

products.

specified with adjustment bottom shelves and they can be rs.

een carefully reviewed by playground design expert as well NPS is that are needed and that the desire to make the play structure inger footprint. Rotating the swings will impact the hard surface d out all the needs and requests from the school, PR&C, and the lay structure.

d studied with the school, PR&C and the city's ADA Coordinator. ne city on other playground projects and is intended to be a trast color for the swings and equipment is blue.

stairs and will be reflected in final CDs.

eld side to avoid constructing a retaining wall on the east side of oping upward toward the playground.

pollinator garden and will be reflected in final CDs.

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1	NEWTON - Linco	oln-Eliot DRC COMMI	ENTS		
2	Section	Comment from		DRC Comment	Designer Response
	Landscape	SingNing Kuo	L3.01 Lawn adjacent to Main Entry & Gym	Is it possible to have a group of flowering trees instead of one sugar maple? (Dogwood or Magnolia?)	AST - NPS does not want trees that h The city's Director of Urban Forestry, working with him. We are looking to where we will look add trees. Marc V grow.
36					
37	Landscape	SingNing Kuo	L3.01 Seating area outside of Cafeteria	Add shade for seating area	AST - Will add two trees near the sea 100% CD.
	Landscape		L1.03 Materials: Enlargement at Bldg.	Playground: concerned for children chasing balls from hardtop area into adjacent moving swings. Siting basketball court so close to swing buffer zone seems problematic. Suggest some sort of protection at rear of swing area to deflect	TI - The location of the basketball ho vigorously discussed in the design m suggestion for fencing between uses
38		Carol Schein		balls.	future, it appears to be an issue, a fe
39	Landscape	Carol Schein		Much prefer the flagpole placement now shown.	AST - Noted
40	Landscape	Carol Schein		Ensure sufficient distance between ends of hedges and main pathway railings as will be needed to run up and down as well as for large mower access. Hedge ends should be equidistant from path.	TI - There is 13'-0" clear between the mowing access. We will remove (4) equidistant from the walkway.
	Landscape		L3.01 Planting Trees and	Suggest perforated tabletops rather than proposed solid metal tabletops; they	TI - We will explore the possibility of
41		Carol Schein	Turf	perform better under hot sun and in rain.	manufacturers that were preferred b
42	Landscape		L3.02 Planting Enlargement at Bldg.	Juniperus horizontalis 'Grey Owl' and 'Bar Harbor' – No idea, but confirm berries are not toxic, if eaten by the curious.	TI - Juniperus horizontalis 'Bar Harbo
43	Landscape			Would be nicer if benches faced the field rather than the playground hedge. Leave enough room around them/between them for access by wheelchair and/or stroller.	TI - That was a graphic error and has between the two benches that reflec graphically amended this zone with a
44	Landscape	Carol Schein	L4.01 Site Details	Detail 8 – needs correct label	TI - Yes, noted for correction.
45	Landscape			Detail 9 - Granite monolith slab bench – don't see these called out on plan. Add waiting-for-the-bus space for a wheelchair or two?	TI - There are (2) granite monoliths a waiting for a bus. They are set into t pathway. There is not enough dimen
	Landscape			Couldn't find specs or detail for school sign wall located at Jackson Road pathway	TI - The signage wall is not in the Lan
46		Carol Schein		entry. Suggest referencing the architectural plan/detail.	been added to L1.02.
47	Landscape	Carol Schein	L4.02 Ramps, Handrails, Fences and Furnishings	Layout of main pathway handrails not clear to me – if max. 30' length, what does it look like when two railing lengths meet? distance between railing section nosings? Can one cut across the pathway between nosings?	TI - The handrails are continuous alo the final landing. There is no "cut th will issue Shop Drawings of the hand regulations have been met.
48	Landscape	Carol Schein	L4.04 Planting	If there's any intent the athletic fields will actually be used for sports, I think the loam depth should be greater than 4" if it's to hold up under any extra use. Confirm with Newton PRC Department the proper soil profile for the fields area if it should differ, and add a detail.	TI - We will look forward to commen

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t have flowers or berries as this becomes an issue with students. ry, Marc Welch, provided the team with input and we are to plant more trees and the location you identified is an area c Welch advised to plant the sugar maple and give it room to

eating area outside of the cafeteria and will be reflected in the

noop and its adjacency to the other play equipment was meetings and in our playground small group meetings. The es was not supported, and therefore, not shown in the plans. If fence could be added later.

he railings and the end of the groundcover planting to allow b) groundcover plants from the left bed to have the beds be

of perforated tabletops from the site furnishing product I by the City of Newton Parks Department.

bor' and Juniperus virginiana 'Grey Owl' have cones, not berries.

as been updated. In addition, there is a rectangular space inects the space required for a wheelchair or stroller; we have n a hatch and note to read more clearly.

s at the bus drop off along the pathway to allow seating while the 3:1 lawn slope from behind and exposed for use along the ensional space to place them into the walking surface.

andscape Scope. A note to see Architectural Plan and Detail has

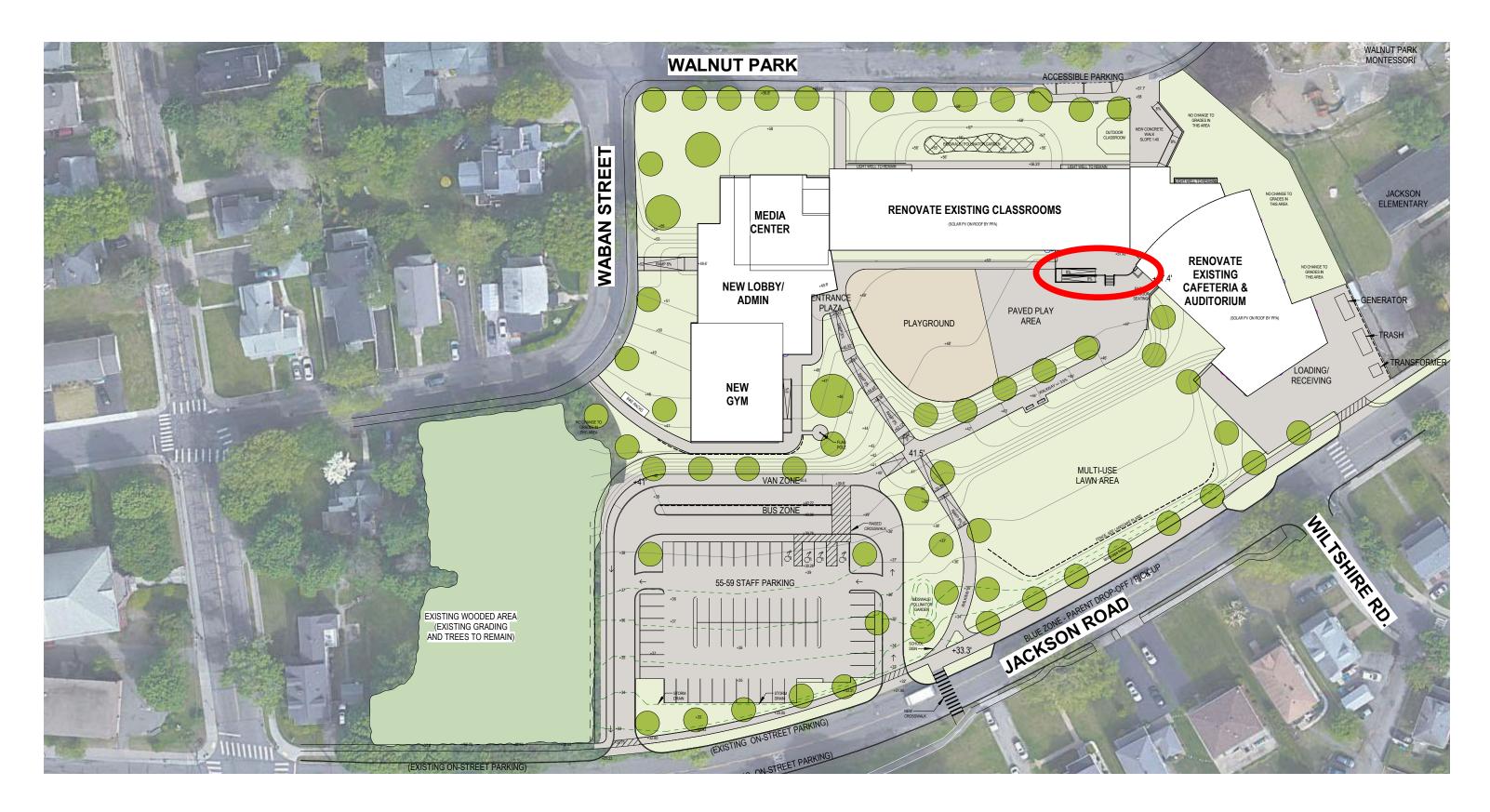
long the entire length of the ramp from the start of the ramp to through" between segments of ramp. The Landscape Contractor ndrails for approval before fabrication to ensure all ADA

ent by the City of Newton Parks Department.

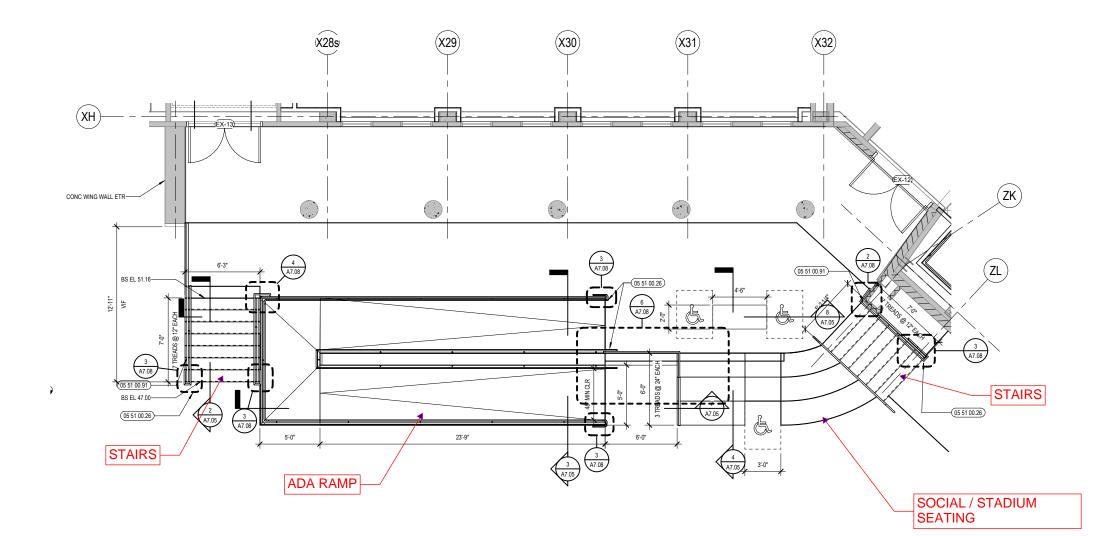
SITE PLAN UPDATE

ARROWSTREET NEWTON, MA / LINCOLN-ELIOT ELEMENTARY SCHOOL

SITE PLAN

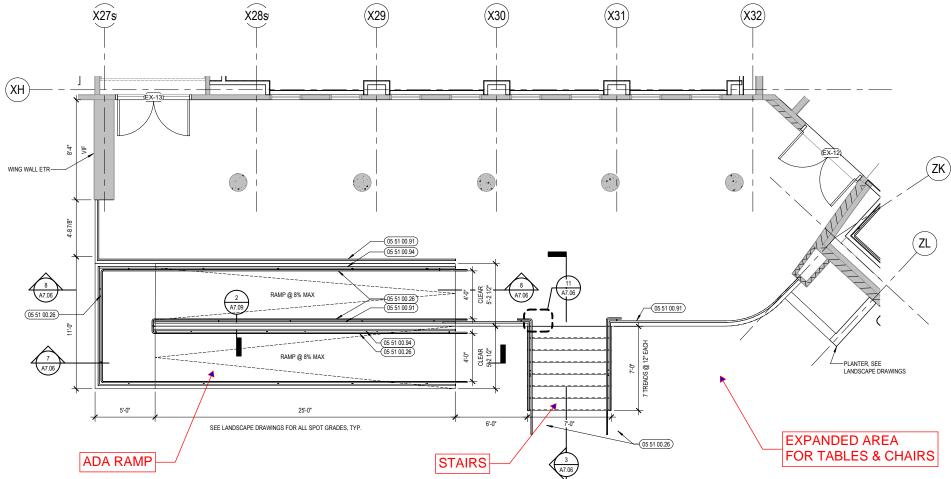


CAFETERIA PATIO RAMP 90% CD



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CAFETERIA PATIO RAMP REVISED LAYOUT



CAFETERIA PATIO RAMP REVISED LAYOUT 3D

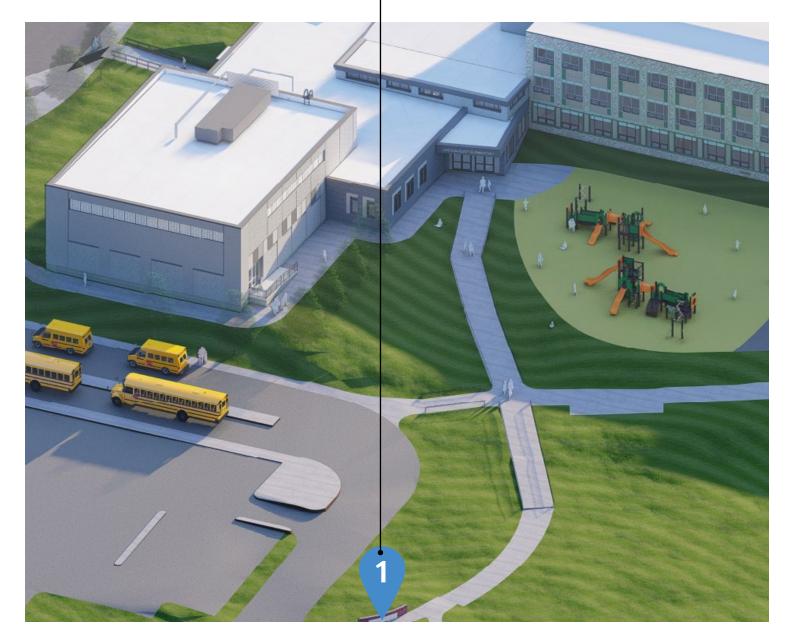


MONUMENT SIGN

ARROWSTREET NEWTON, MA / LINCOLN-ELIOT ELEMENTARY SCHOOL

MONUMENT SIGN OVERVIEW

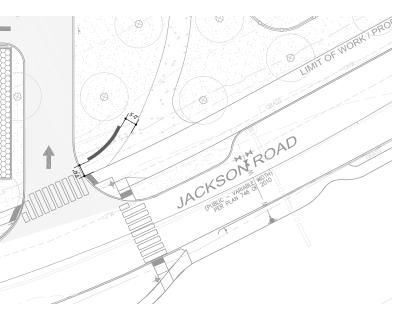
LINCOLN-ELIOT 150 JACKSON ROAD Freestanding entry sign



PRECEDENT IMAGES

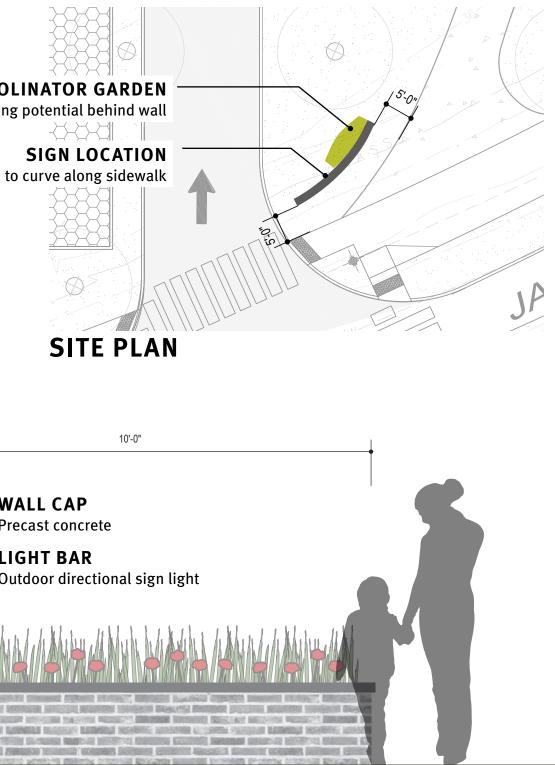


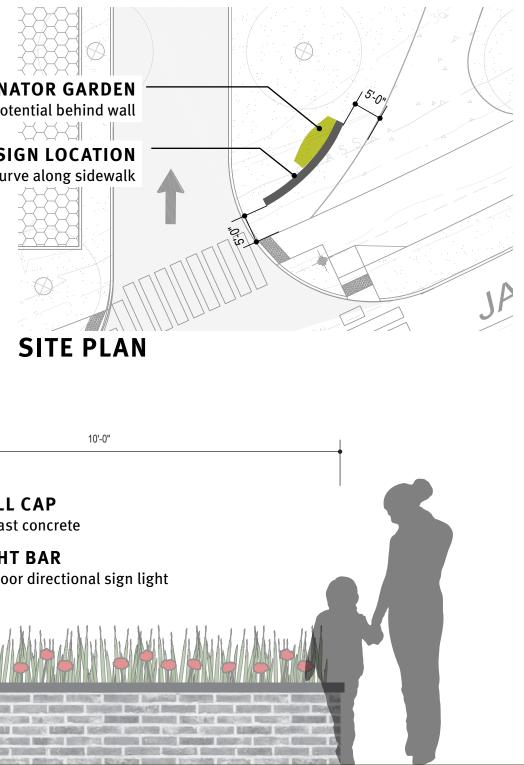


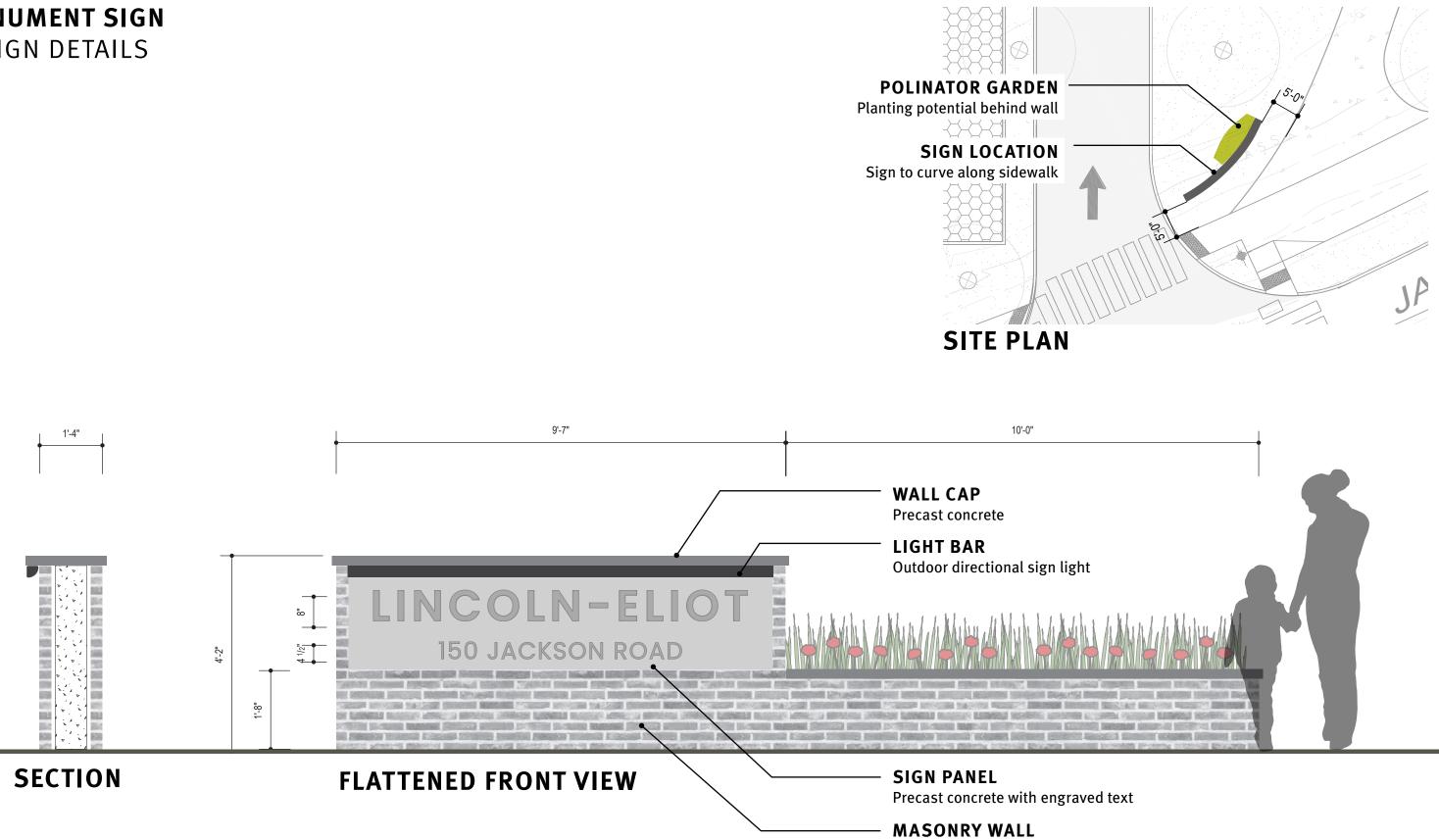




MONUMENT SIGN DESIGN DETAILS

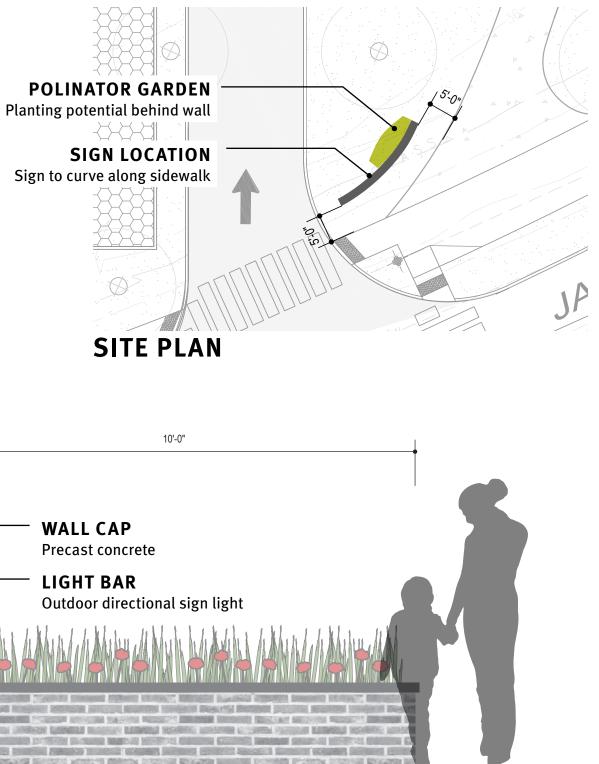


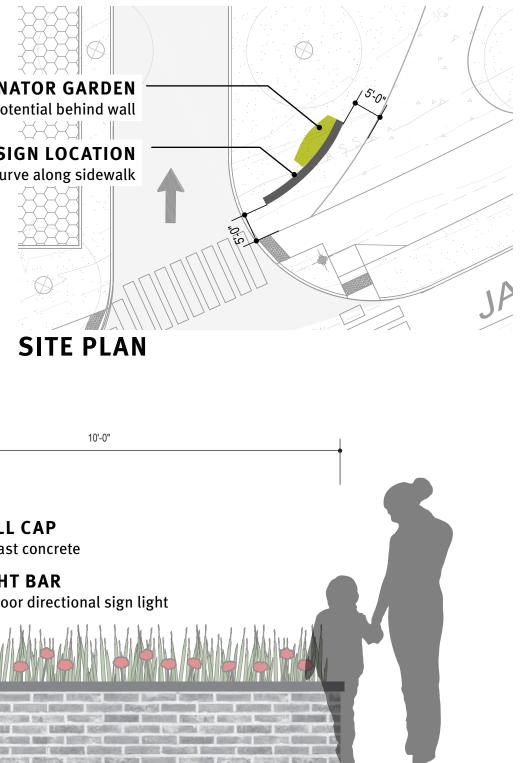


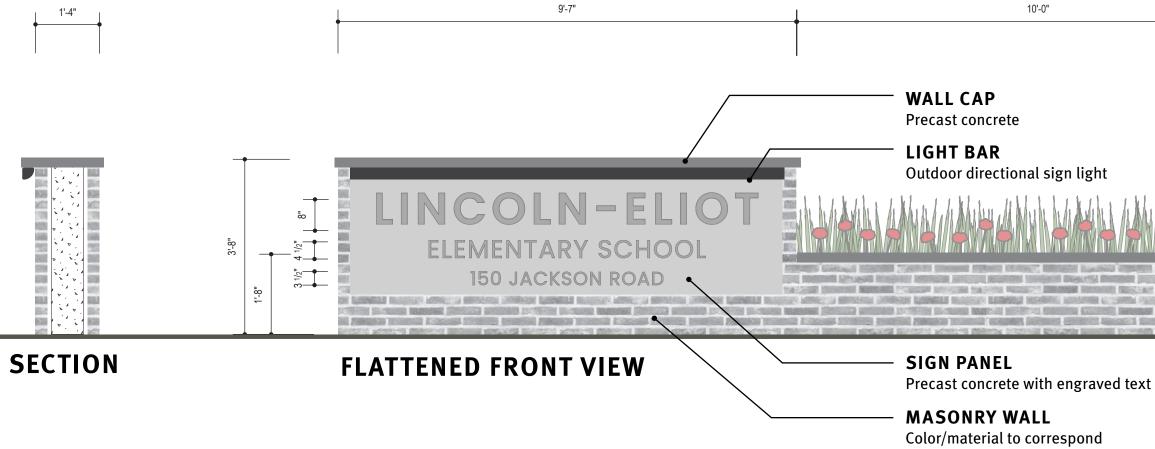


Color/material to correspond with architectural finishes

MONUMENT SIGN OPTION 2







with architectural finishes

PROJECT SCHEDULE UPDATE

2023	
Aug. 9	DRC/SBC Meeting DRC Vote on 90% Bid Documents
Aug. 31	Final Construction/Bid Documents
Sept. 14	Bid Phase
Nov. 2	Award / Start Construction, 18-month duration

2025	
May 1	Complete Construction
July/Aug	School Move-in

For Further Information:

- » www.newtonma.gov/gov/building/capital_projects
- » www.lincolneliot-necp-projects.com
- » Alejandro Valcarce, AIA, Deputy Commissioner Newton Public Buildings; avalcarce@newtonma.gov
- » Vivian Varbedian, Project Manager, Hill International; vvarbedian@hillintll.com

