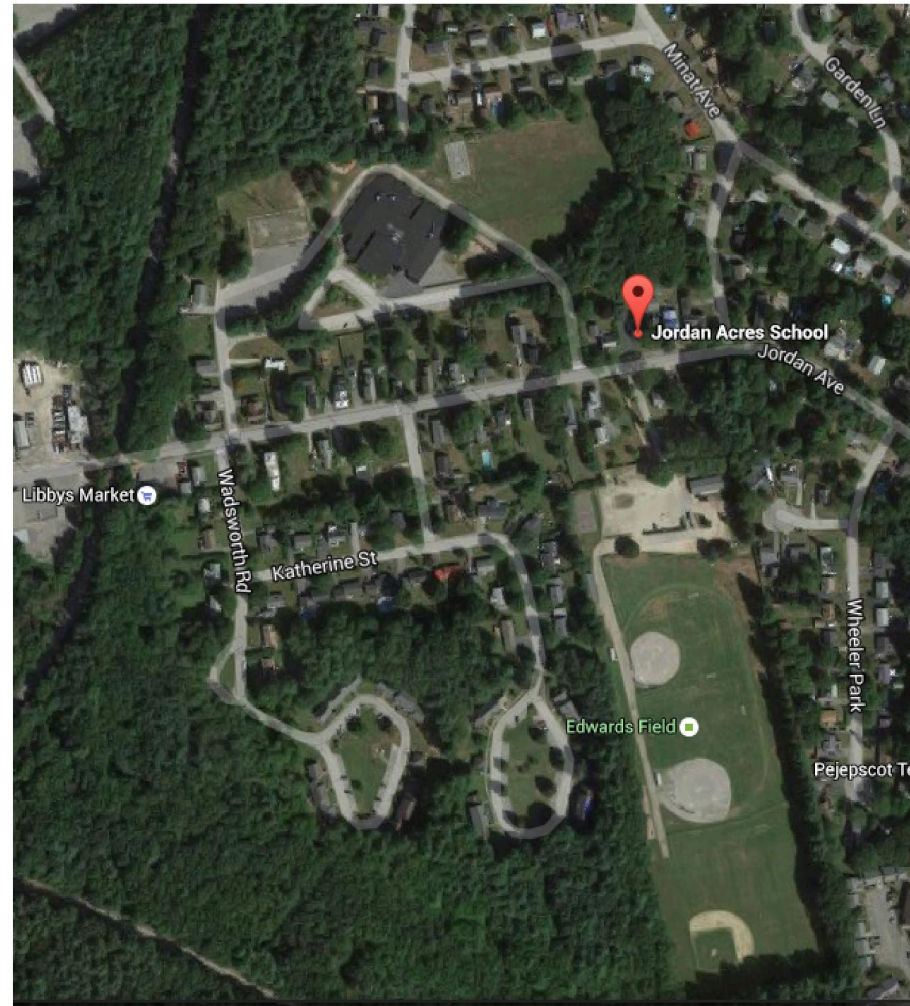




Brunswick PK-2

9 August 2016







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The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

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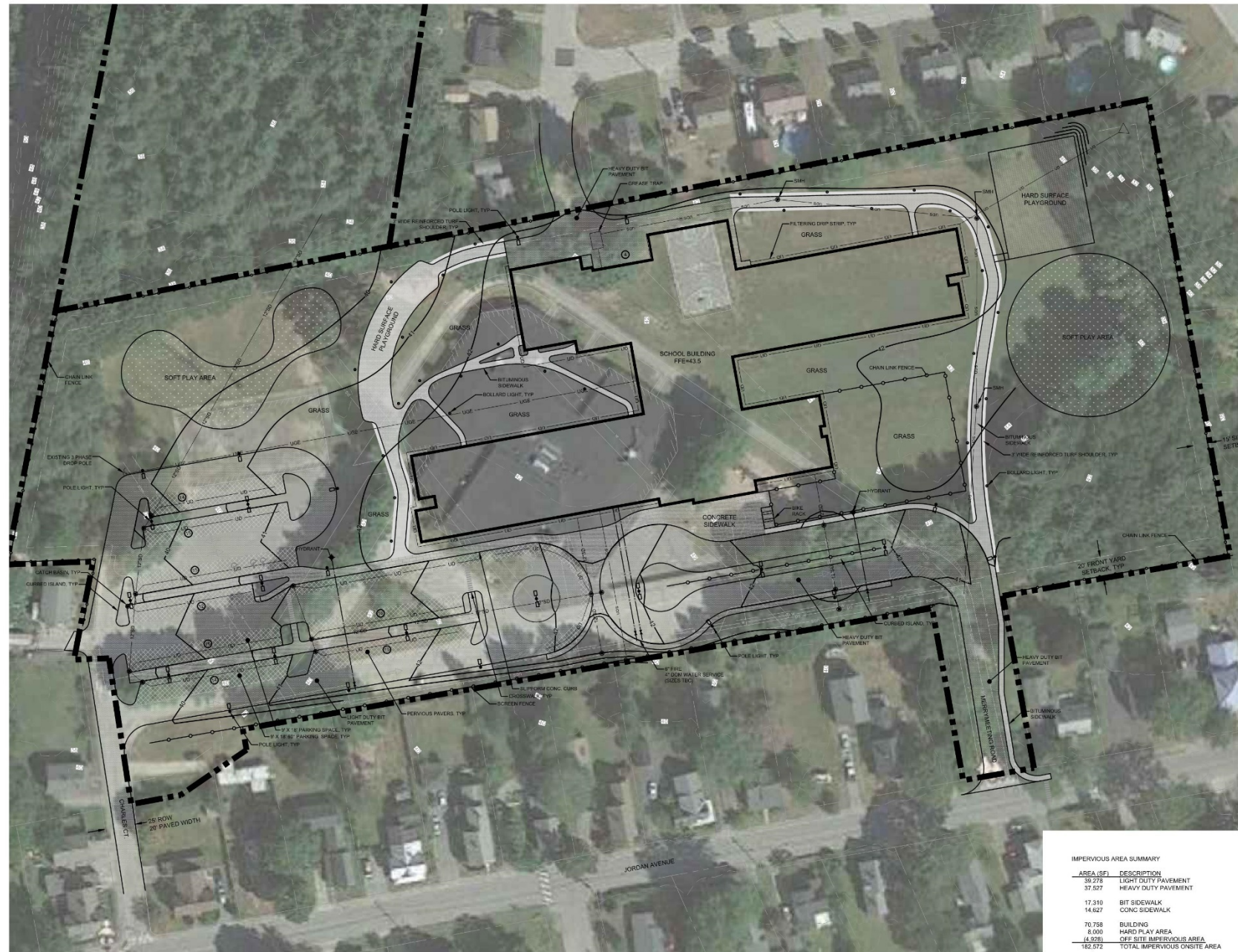
1. PARCEL BOUNDARY DATA AND TOPOGRAPHY SHOWN ON THIS PLAN ARE TAKEN FROM SHAPE FILES AVAILABLE TO THEOTH MCGIB DATA CALL 03. NO BOUNDARY SURVEY OR GRADE TOPOGRAPHY HAS BEEN UNDERTAKEN FOR THIS STUDY.
2. UTILITIES SHOWN ON THIS PLAN TAKEN FROM DRAWING BY DRA ARCHITECTS AND EC ENGINEERS INC. DATED 12/10/2018. BERKSHIRE ELEMENTARY SCHOOL, DATED MAY 1971. THE ENGINEER MAKE NO GUARANTEE THAT INFORMATION SHOWN IS COMPLETELY ACCURATE OR COMPLETE. IT IS THE RESPONSIBILITY OF ANY PARTY WORKING ON THE SITE TO VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO ANY EXCAVATION ACTIVITY.
3. PARKING AND DROP OFF SUMMARY

16	BUS DROP OFF SPACES
17	BUS DROP OFF SPACES
117	TOTAL PARKING SPACES
5	H/C PARKING SPACES

File Name: FILE NAME	DWN.	CHRD.	DSGN.	YYMMDD
	TAI	AJ	AJ	6/25/16

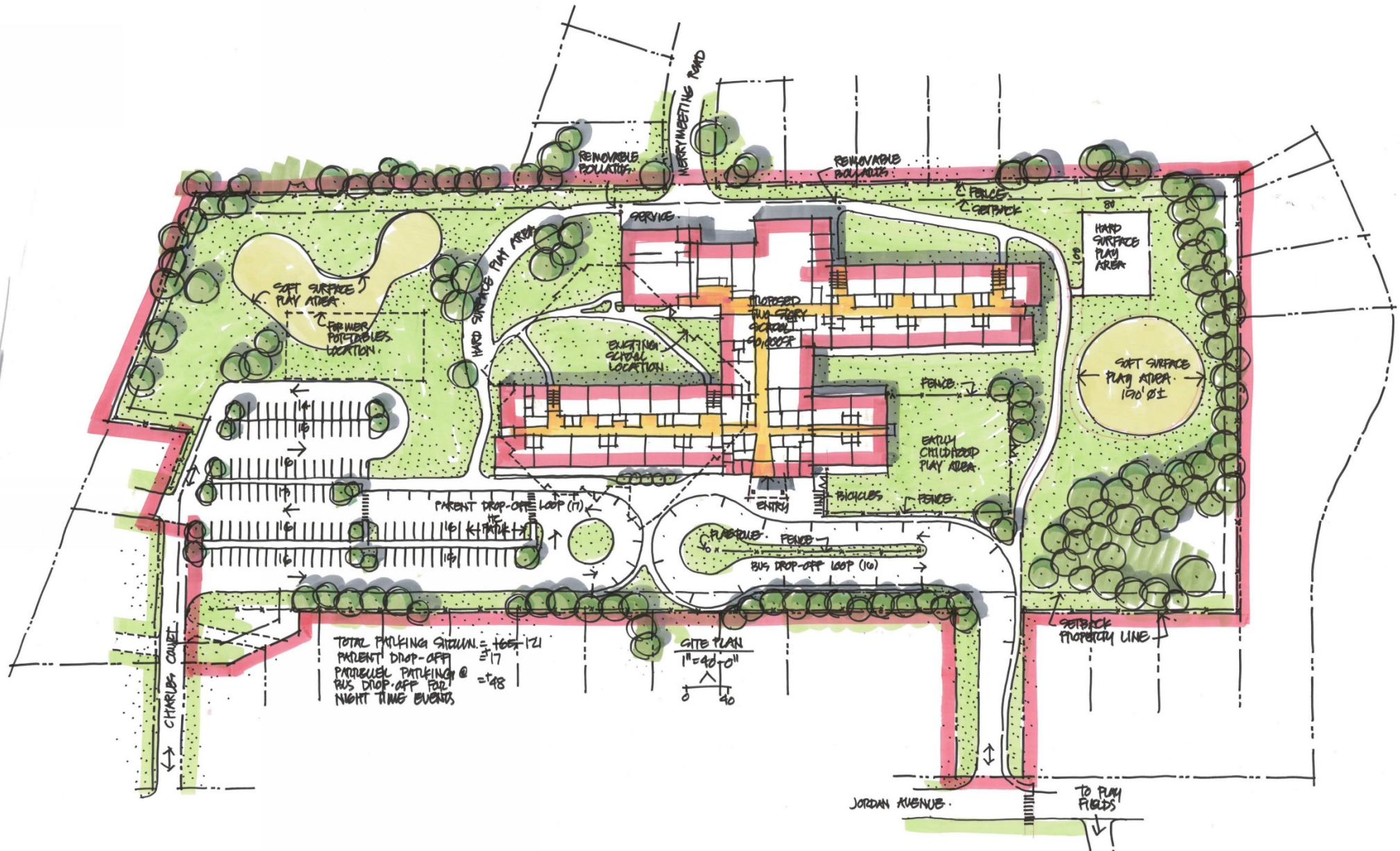
Title
CONCEPTUAL SITE PLAN
CONCEPT 1

1.0



PRELIMINARY - NOT FOR CONSTRUCTION

doi:10.12611/2511-1913/20150001

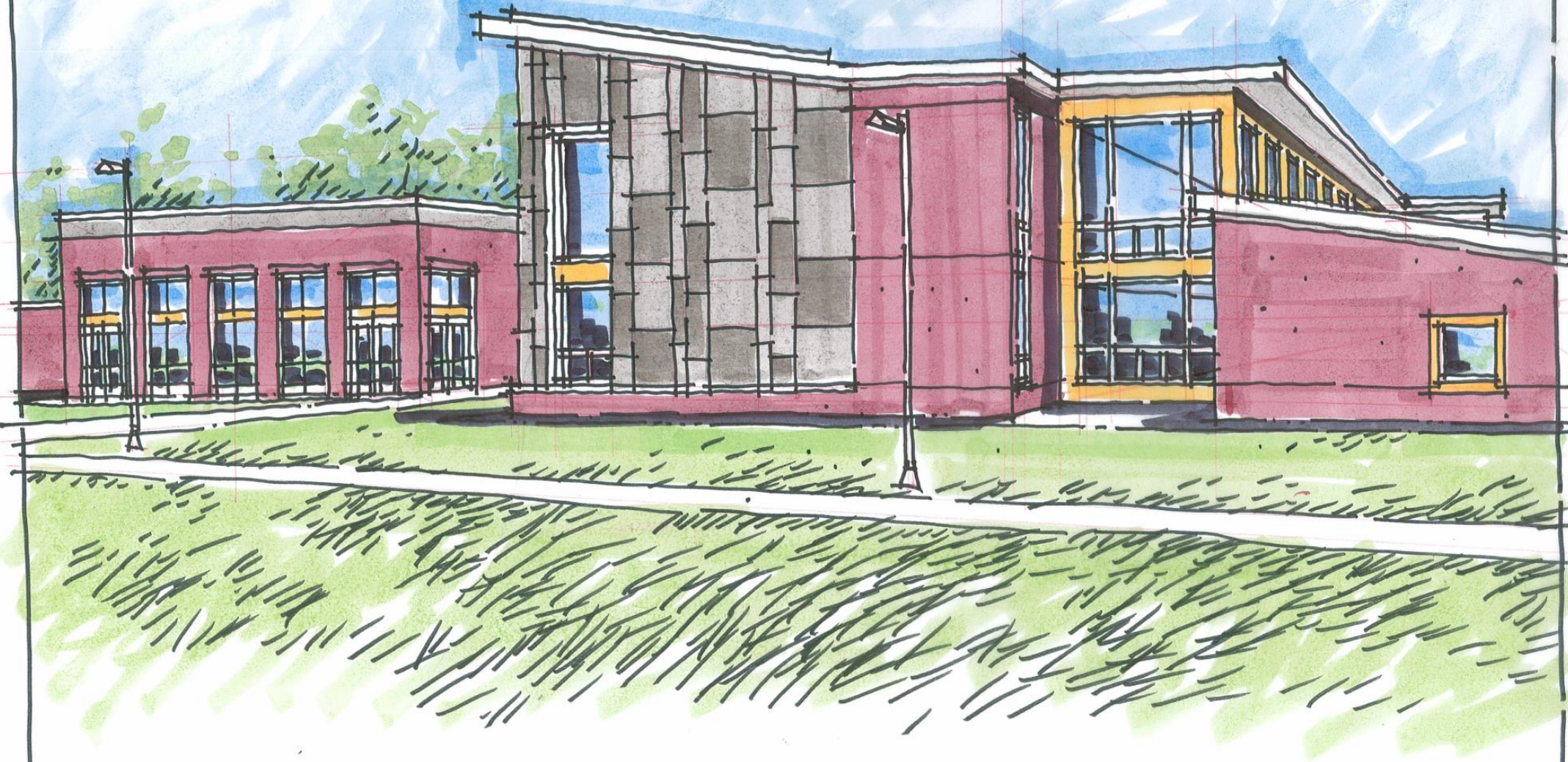






1 LEVEL 2
1/16" = 1'-0"





Brunswick PK-2 School

Mechanical Systems

Ventilation

Demand Control	CO2	Energy Recovery Ventilators (ERVs) Rooftop units
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System One:

Full Heat & Partial A/C

Radiant Floor
Condensing Boilers (HE) Natural Gas
Low Temp

Cooling (Library+ Admin.)
via Mini Splits (Electric)
\$25/sf

Domestic Hot Water: Natural Gas Source
Kitchen: Natural Gas

System Two:

Full Building Heat & A/C

Geothermal/ Ground Source Closed Loop
Geo exchange- Electric Circulation Pumps
VRF - Variable Refrigerant Flow

Peaking Boiler (Propane)
\$31.50/sf
+
Borefield (\$700,000) Estimate

Domestic Hot Water: Propane
Kitchen: Propane

A Policy Prescribing Green Building Standards for
Municipal Buildings in the Town of Brunswick
Adopted 02/07/2011

Definitions—

For purposes of this policy, a qualifying project is any new construction or major renovation project to be owned, occupied, or funded in whole or in part by the Town of Brunswick that is of 5,000 square feet in floor area or greater. A major renovation project is any renovation estimated to cost twenty-five percent or more of the insured value of the structure to be renovated. This policy indicates the policy herein.

1. All qualifying projects shall be designed and built to meet the minimum U.S. Green Building Council's LEED Standards; higher levels (e.g., Silver, Gold, Platinum) shall be pursued when practical. Official LEED certification of completed buildings may be requested at the discretion of the Town Council.
2. All qualifying projects shall achieve an EPA Energy Performance Rating that is as high as practical, with a minimum Rating of 75.
3. The Town Council shall publicly discuss, after appropriate public notice, any project that fails to meet the recommended standards in this policy. The discussion shall occur during planning stages of the project, and before project approval, to provide sufficient time for the public to comment on the project.
4. This policy shall be filed in the Town Clerk's Office, the Town Manager's Office and the Office of Planning and Development. Existing Town policies affected by this policy shall be revised to include reference to this policy, as appropriate (e.g., as a document revision or addendum), under direction of the Town Manager. Policies adopted by the Town in the future, and affected by this policy, shall likewise include reference to this policy.

This policy was enacted by the Brunswick Town Council at their regular meeting of February 7, 2011.

Attests: _____ (Town Clerk)



LEED v4 for BD+C: Schools Project Checklist

Preliminary
Draft

Project Name: Brunswick PK-2 / Primary School
Date: 28 Jul 16



Y ? N



Credit Integrative Process

1

0	8	22	Location and Transportation	15
		15	Credit LEED for Neighborhood Development Location	15
	1		Credit Sensitive Land Protection	1
	2		Credit High Priority Site	2
	5		Credit Surrounding Density and Diverse Uses	5
	0	4	Credit Access to Quality Transit	4
	1		Credit Bicycle Facilities	1
	1		Credit Reduced Parking Footprint	1
0		1	Credit Green Vehicles	1

3	7	2	Sustainable Sites	12
Y			Prereq Construction Activity Pollution Prevention	Required
Y			Prereq Environmental Site Assessment	Required
	1		Credit Site Assessment	1
	2		Credit Site Development - Protect or Restore Habitat	2
	1		Credit Open Space	1
	3		Credit Rainwater Management	3
		2	Credit Heat Island Reduction	2
1			Credit Light Pollution Reduction	1
1			Credit Site Master Plan	1
1			Credit Joint Use of Facilities	1

3	1	2	Water Efficiency	12
Y			Prereq Outdoor Water Use Reduction	Required
Y			Prereq Indoor Water Use Reduction	Required
Y			Prereq Building-Level Water Metering	Required
	2		Credit Outdoor Water Use Reduction	2
	1		Credit Indoor Water Use Reduction	7
		2	Credit Cooling Tower Water Use	2
	1		Credit Water Metering	1

15	4	4	Energy and Atmosphere	31
Y			Prereq Fundamental Commissioning and Verification	Required
Y			Prereq Minimum Energy Performance	Required
Y			Prereq Building-Level Energy Metering	Required
Y			Prereq Fundamental Refrigerant Management	Required
		2	Credit Enhanced Commissioning	6
	12		Credit Optimize Energy Performance	16
	1	0	Credit Advanced Energy Metering	1
	2	0	Credit Demand Response	2
	3		Credit Renewable Energy Production	3
	1		Credit Enhanced Refrigerant Management	1
		2	Credit Green Power and Carbon Offsets	2

4	6	0	Materials and Resources	13
Y			Prereq Storage and Collection of Recyclables	Required
Y			Prereq Construction and Demolition Waste Management Planning	Required
	2		Credit Building Life-Cycle Impact Reduction	5
		2	Credit Building Product Disclosure and Optimization - Environmental Product Declarations	2
		2	Credit Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
		2	Credit Building Product Disclosure and Optimization - Material Ingredients	2
	2		Credit Construction and Demolition Waste Management	2

7	4	0	Indoor Environmental Quality	16
Y			Prereq Minimum Indoor Air Quality Performance	Required
Y			Prereq Environmental Tobacco Smoke Control	Required
Y			Prereq Minimum Acoustic Performance	Required
	2		Credit Enhanced Indoor Air Quality Strategies	2
	1		Credit Low-Emitting Materials	3
	1		Credit Construction Indoor Air Quality Management Plan	1
	2		Credit Indoor Air Quality Assessment	2
		1	Credit Thermal Comfort	1
	1		Credit Interior Lighting	2
	1		Credit Daylight	3
	1		Credit Quality Views	1
	1		Credit Acoustic Performance	1

1	0	0	Innovation	6
			Credit Innovation	5
	1		Credit LEED Accredited Professional	1

0	0	0	Regional Priority	4
			Credit Regional Priority: Specific Credit	1
			Credit Regional Priority: Specific Credit	1
			Credit Regional Priority: Specific Credit	1
			Credit Regional Priority: Specific Credit	1

33	30	31	TOTALS	Possible Points:	110
Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110					

21 June 2016

**Project Budget
660 Students**



New Elementary School 660 Students

Grades PK-2 660 Students

Brunswick School Department

Fall 2017 Construction Date

Jordan Acres Location

2 House Scheme with reduced program by BSB June 2016

Item 1: Construction			
1.1 New Construction	89115 sf	\$210.05	\$18,718,960
1.2 Demolition 54718	\$ 8.43		\$461,273
1.3 Haz-Mat Abatement			\$109,436
1.4 Site Development-			\$1,400,000
1.5 Off-Site Improvements			\$100,000
1.6 Alternate Energy Investments Geothermal		\$ 700,000	
1.7 Playgrounds (\$160/stud.)		\$ 105,600	
1.8 Inflation to fall 2017 1.875 %	\$ 0.01875	\$ 389,806	\$ 389,806
Subtotal			\$21,179,475 \$21,179,475
Item 2: Admin. Costs and Reserves			
2.1 Site Purchase			\$0
2.2 Furnishings & Moveable Equipment 4% (of line1.1)		\$748,758.40	\$0
2.3 Technology 3%			\$561,568.80
2.4 Advertising, Insurance, Legal, Printing			\$40,000
2.5 Contingency (10% of Item 1)			\$2,117,948
2.6 % for Art			\$0
Subtotal			\$2,719,516 \$2,719,516
Item 3: Fees and Services			
Basic Services			
3.1 Architect New (Item 1 x State of ME Fee)	\$21,179,475 @	6.8 %	\$1,440,204
3.3 Reimbursables & Permits			\$60,000
Special Services			
3.3 Environmental Permitting			\$50,000
3.4 Survey, Soils and Wetlands			\$50,000
3.5 Construction Testing			\$60,000
3.6 Special Inspections			\$10,000
3.7 Clerk			\$160,000
3.8 Commissioning			\$50,000
3.9 Owner's Representative			\$50,000
			\$0
Subtotal			\$1,930,204 \$1,930,204
		\$ 1,944,164	
Total Project Cost			\$25,829,196

2016

WORK PLAN

August	9-Aug	Committee Meeting	<i>A/C + Summer Use? Plan Updates</i>
	31-Aug	Staff Meeting (Town Departments) Sustainability Workshop	
September	8-Sep	DEP Scoping / Pre-Application Meeting	
	8-Sep	Meet with Teachers and Admin.	
	21-Sep	Committee Meeting	<i>Exterior Studies + Materials Geothermal Go-No-Go Existing Equipment and Furniture Recommendation Establish Community Outreach Committee</i>
		Finalize Concept Design	
	27-Sep	Neighborhood Meeting / Open House	
	28-Sep	Workshop with Planning	
October	5-Oct	Committee Meeting	<i>Budget Update JRHS Update</i>
	19-Oct	School Board Action and Public Hearing	
	25-Oct	Planning Board Presentation	
	31-Oct	Meet with SFMO	
November	3-Nov	General Election	
	16-Nov	Town Council Public Hearings	
December	5-Dec	Town Council Hearings and Council Vote	
	7-Dec	Committee Meeting	
2017			
January - June	15-Jan	Referendum Language: Legal / Finance Community Presentations and Newspaper Articles Open Houses and Neighborhood Presentations	
April		Ballot to Printer	
May		Absentee Ballots	
June	13-Jun	<u>Referendum New School + JRHS Improvements</u>	

