

#### School Building Committee Meeting AUGUST 15, 2017

- 1. Educational Planning & Visioning Update
- 2. Preliminary Space Summary/ Room Size Analysis
- 3. Site Planning Balmer site
- 4. Schedule and Process Update
- 5. Questions, Comments, Feedback





## EDUCATIONAL PLANNING & VISIONING UPDATE

This is a summary document highlighting the key takeaways from educational visioning sessions held on 7/31, 8/1, and 8/9/17

Participants included:

- Northbridge Public Schools educators and administrators
- Community members
- Parents
- Students
- Representatives of local non-profits

- Dr. Frank Locker, Educational Planning Consultant
- Joel Seeley, SMMA, Owner's Project

Manager

Dore & Whittier Architects, Educational Planners, and Interior Designers

#### VISIONING WORKSHOP FINDINGS AND TAKE-AWAYS





July 31: Visioning 1 "Developing Understanding"

- The jobs we are educating our kids for now do not exist yet
- Problem solving skills paramount for the future
- Most important Learning Modalities:
  - Small Group Work/ Student Collaboration
  - Project-Based Learning
- Interdisciplinary Learning
  - Lecturing was voted least important (unan.)
- Safety and Security is a key consideration



#### VISIONING WORKSHOP FINDINGS AND TAKE-AWAYS July 31: Visioning 1 "Developing Understanding"



- Top 3 most important teaching & learning concepts:
  - Emotional Intelligence
  - Project-Based learning
  - Environmental Science/ STEAM/ Sustainable Living
- Top 4 most important facility concepts:
  - Small Learning Communities/Suites of Spaces
  - Flexible, Varied, Brain-Based Furniture
  - Project Spaces
  - Empowering Student Collaboration

#### **VISIONING WORKSHOP FINDINGS AND TAKE-AWAYS**

August 1: Visioning 2 "Educational Definition"

- School Organizational Structure: Overall
  - Discussed natural breaks in grade PK-12 grade continuity

#### PK K 1 2 3 4 5 6 7 8 9 10 11 12

Discussed how Grade 5 is closer to 4 than it is to 6.







#### VISIONING WORKSHOP FINDINGS AND TAKE-AWAYS

August 1: Visioning 2 "Educational Definition" School Organizational Structure: Internal

Different for lower and upper elementary schools, Grade 3 transition

Preferred Organizational Models:

- Some consensus; common threads:
  - Lower: Grade-level classrooms + multi-age+ looping
  - Upper: teachers as content specialists + thematic learning + looping





Visioning

# visioning

#### VISIONING WORKSHOP FINDINGS AND TAKE-AWAYS

#### August 1: Visioning 2 "Educational Definition"



#### School Size: 1030 enrollment preferred

- "It can do all the things a 510-student school can do..." by breaking down scale using small learning communities.
- "Allows for more opportunity student and teachers."
- "More opportunities for collaboration among faculty; more 'combinations'."
- "Can build a stronger community with continuity across ages/grades."

#### VISIONING WORKSHOP FINDINGS AND TAKE-AWAYS August 1: Visioning 2 "Educational Definition"

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20grade level disadvantages
A - No change, No traumas - Hore transtions, 1000 st -gr 5-8, developmentally, 10 gr 5-8
B-less transitions, 1000 th Annual - change, adapt current "Horms"
S Railaing Size
530 students - No blaget impact, similar shafting. continue lamms,
1030 Swhent Kourriculum allignment (Vertical) opportunities income
1)-long tern cost sources similar socied impact - improved community 1)-long tern cost sources - improved intervent (Socied 1) Prof ? (One bug happy fumily) intolve ment (Socied 1) Prof ?
better firoreials longlerm
M Loropr School
solution (No Band alds)
Bonies P Student opportunities increase
G New School Increased along w/ potential teacher *
We we will the party Volue Cross age collaboration.

#### School Size: 1030 enrollment preferred

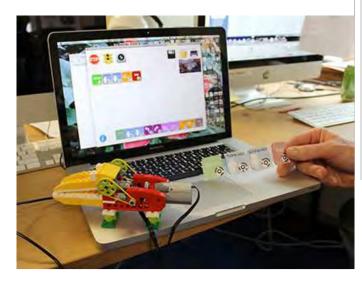
- "Fewer school building transitions"
- "Better curriculum alignment"
- "Long-term cost savings"
- "Why not fix two problems at once?"
- "Bonus: New or Rejuvenated School = Increased property values!"
- "Improved Community Involvement"
- "One big happy family"

#### VISIONING WORKSHOP FINDINGS AND TAKE-AWAYS

August 1: Visioning 2 "Educational Definition"

- Innovations in Education:
  - Project-Based Learning and Making Things are of primary importance in Northbridge going forward.







#### SCHOOL TRANSFORMATION + DEVELOPMENT MAP Frank Locker Educational Planning

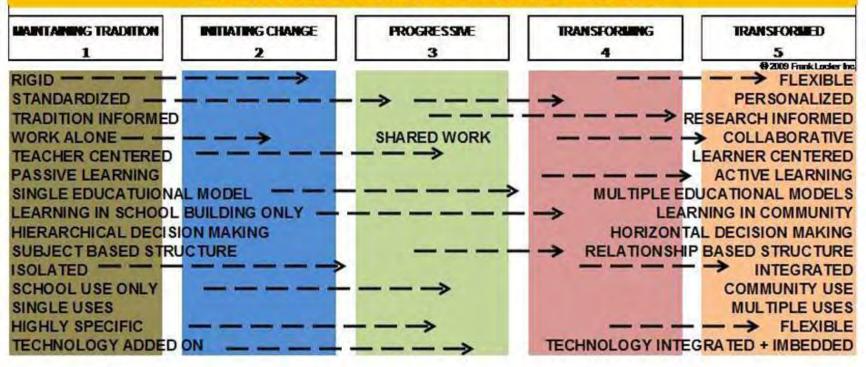
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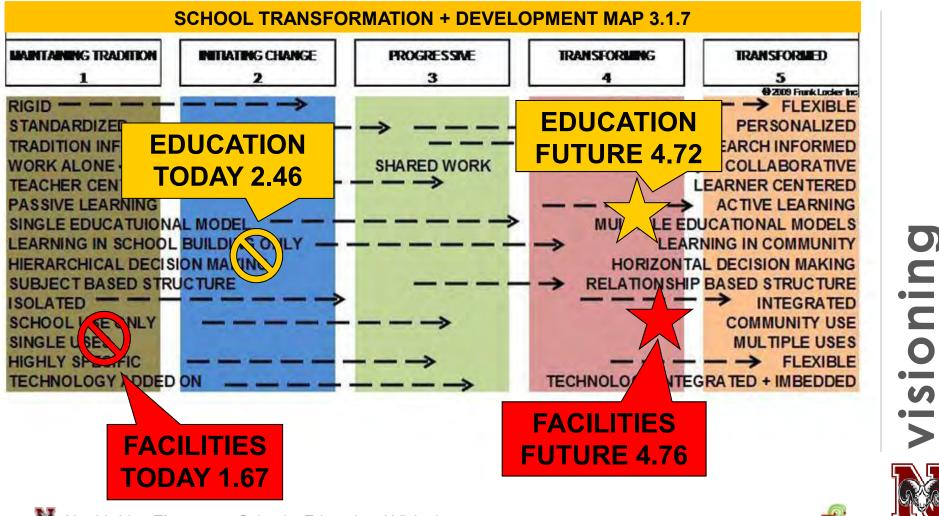
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#### SCHOOL TRANSFORMATION + DEVELOPMENT MAP 3.1.1





Northbridge Elementary Schools Educational Visioning

Frank Locker Educational Planning



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#### VISIONING WORKSHOP FINDINGS AND TAKE-AWAYS

#### August 9: Visioning 3 "Facilities Definition"

- School Transformation and Development Map:
  - The facilities are getting in the way of educational delivery.
  - There is consensus in the group about where Northbridge is now, and where it wants to go.
    - (clustering of votes)

• Places for Learning: most preferred example – 3 of 3 table teams



Forest Avenue K-2 Center, Middletown, RI



• Future Furniture: 3 most preferred examples

Student-controlled learning environment, New Albany OH – previous slide

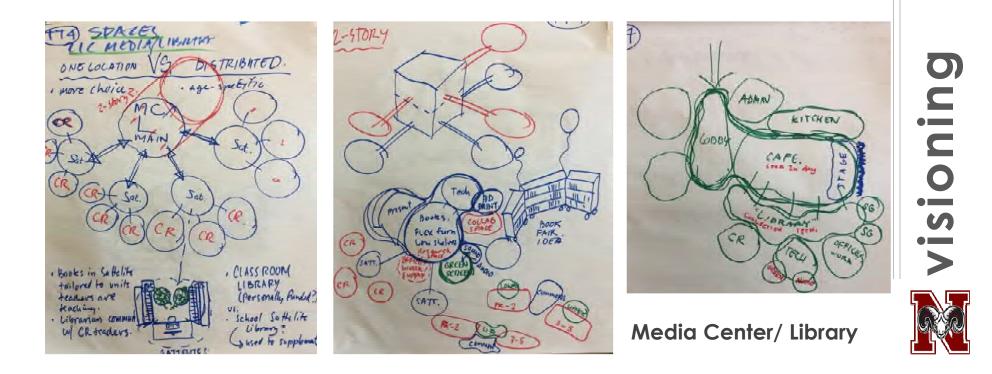


Instructional Modules

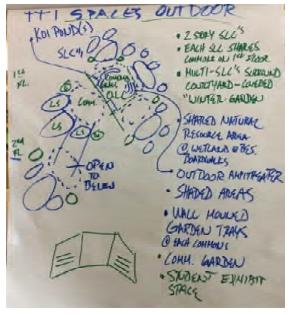


Flexible, Movable Desks

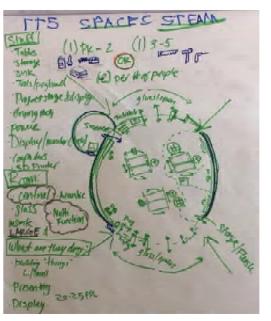
• Defining Spaces: some CONCEPT sketches of envisioned spaces



#### • Defining Spaces: some CONCEPT sketches of envisioned spaces



**Outdoor Learning Spaces** 



**STEM/STEAM** instruction

visioning

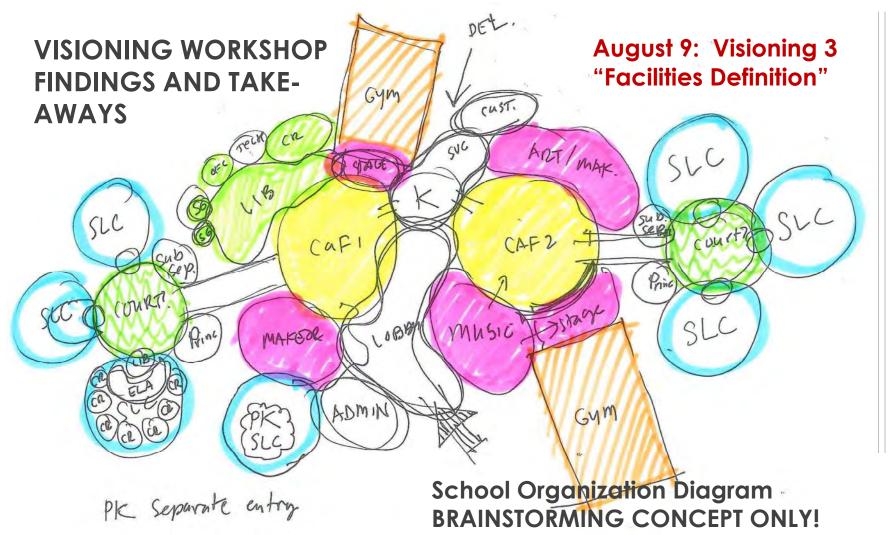
VISIONING WORKSHOP FINDINGS AND TAKE-AWAYS August 9: Visioning 3 "Facilities Definition"

Overall School

**Organization Diagram** 

- Relationships of major elements
- Size & Scale
- BRAINSTORMING
  CONCEPT ONLY!

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#### **EDUCATIONAL PLANNING NEXT STEPS:**

- Follow up with faculty report out these results take further input & feedback
- District should already have started Education Program
- Fold into Educational Program findings and conclusions from Visioning
- Manifest findings and conclusions in Space Summary (Architectural Program)
- Meet with staff, students to get more detail on space program

**EDUCATIONAL VISION** 

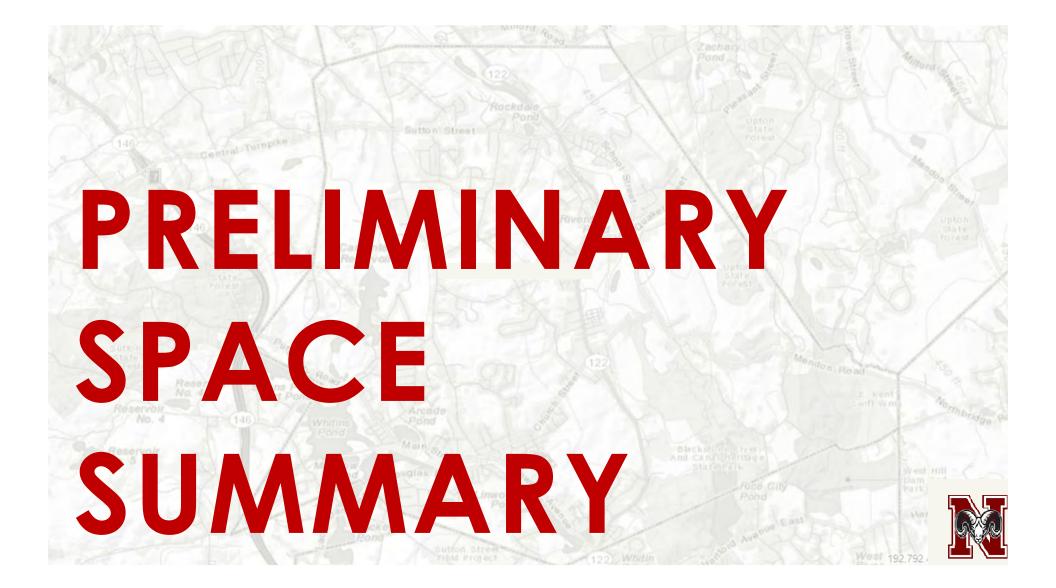
**EDUCATIONAL PROGRAM** 

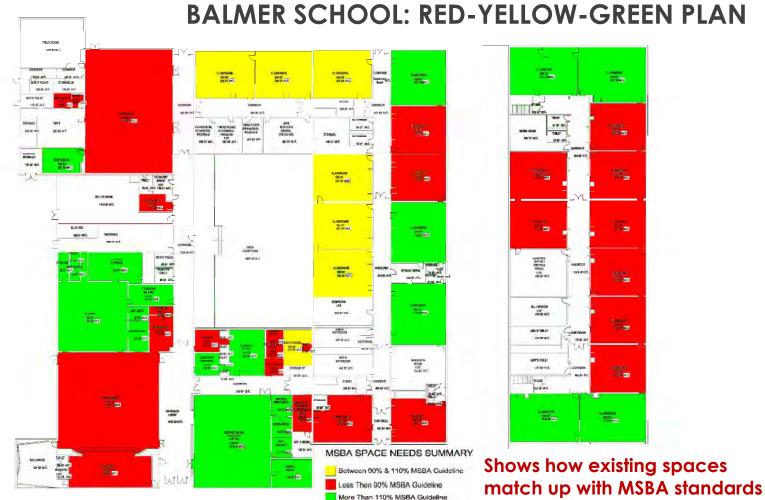
**EDUCATIONAL NEEDS/ FUNCTIONS** 

**ARCHITECTURAL SPACE PROGRAM** 

**ARCHITECTURAL CONCEPTS** 

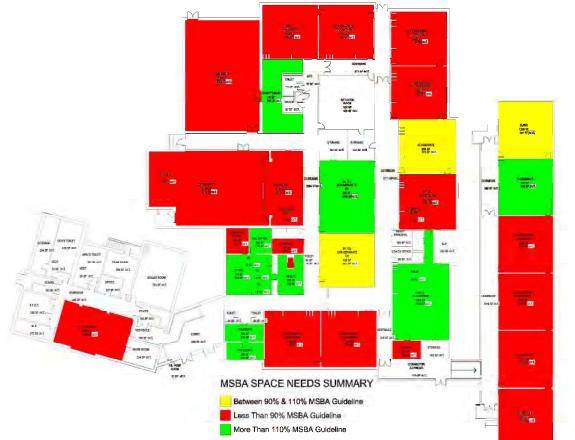
**ARCHITECTURAL DESIGN** 

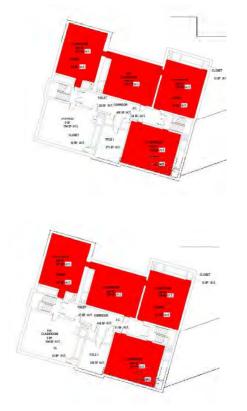




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#### NORTHBRIDGE ELEMENTARY SCHOOL: RED-YELLOW-GREEN PLAN





Shows how existing spaces match up with MSBA standards

### summary U U spa

#### PRELIMINARY SPACE SUMMARY:

Listing of spaces, their square foot (SF) area, and SF totals

Grade 2-4 Option (510 enrollment):

٠	Existing SF:	50,515 NSF	71,871 GSF									
٠	MSBA Standard	52,107 NSF	79,305 GSF									
٠	Proposed SF*	~54,750 NSF	~82,200 GSF									
Grade PK-5 Option (1030 enrollment):												
٠	Existing SF:	50,515 NSF	71,871 GSF									
٠	MSBA Standard	93,561 NSF	149,350 GSF									
٠	Proposed SF*	~103,700 NSF	~155,500 GSF									

\*ESTIMATES ONLY! For order-of-magnitude planning only.



#### SITE EVALUATION CRITERIA

- Buildable Area (Acres)
- Wetlands/ Riparian Buffers/ Flood Zones
- Topography
- Soils
- Parklands/ Article 97 issues
  - Site Utilities (Water, WW,

#### Electric)

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Two-Way Access

- Safety
- Location/Bussing
- Land Acquisition Cost

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• "Fatal Flaws"

#### PRELIMINARY SITE ANALYSIS

#### BALMER ELEMENTARY SCHOOL FEASIBILITY STUDY

#### SITE SELECTION ANALYSIS

DORE & WHITTIER ARCHITECTS/ NITSCH ENGINEERING/ SMMA (OPM)

MAP	BLOCK C SITES	NAME	ADDRESS	ACREAGE	BUILDABLE ACREAGE	TOT SIZE	WETLAND! RIPA/FLOOD	TOPO/ SLOPES	SULS	PARKLAND! ART.97	WATER	ELECTRIC	2 WAY ACCESS	SAFETY	LOCATION/ BUSSING	PURCHASE PRICE	SCORE	RANK
7	138/141	BALMER SCHOOL/VAIL FLD	21 CRESCENT STREET	29.01	16.54	4	3	3	3	4	14	4	2	- 34	4	4	39	
24	205	HIGH SCHOOL FIELDS	427 LINWOOD AVE - rear portion only	56.9	19.51	0'	4	i.	2	4	2	2	0	4	3	4	26	6
24A	56	LINWOOD PLAYGROUND	~240 PROVIDENCE ROAD	10.4	6.84	0	4	3	4	0	3	4	0	2	4	4	28	5
21	27	RIVERDALE MEM FIELD	1681 PROVIDENCE ROAD	26.1	10.83	3	4	3	2	1	2	2	0	4	3	4	28	4

#### PRIVATE SITES

14	15	BALD HILL SITE "BAD LANDS"	-450 CHURCH STREET	.97.3	17,19	4	3	2	2	4	1	1	4	4	- 4	0 2	29	3
24	21	PUCCIO SITE	~585 PROVIDENCE ROAD	71.95	18.88	4	4	0	1	4	(Ť)	1	2	4	4	0 7	25	7
11	54	HILL ST FARM	~1120 HILL STREET	41.2	29.88	4	4	4	4	4	0 <sup>3</sup>	1	3	4	2	0 2	30	2

SCORING:

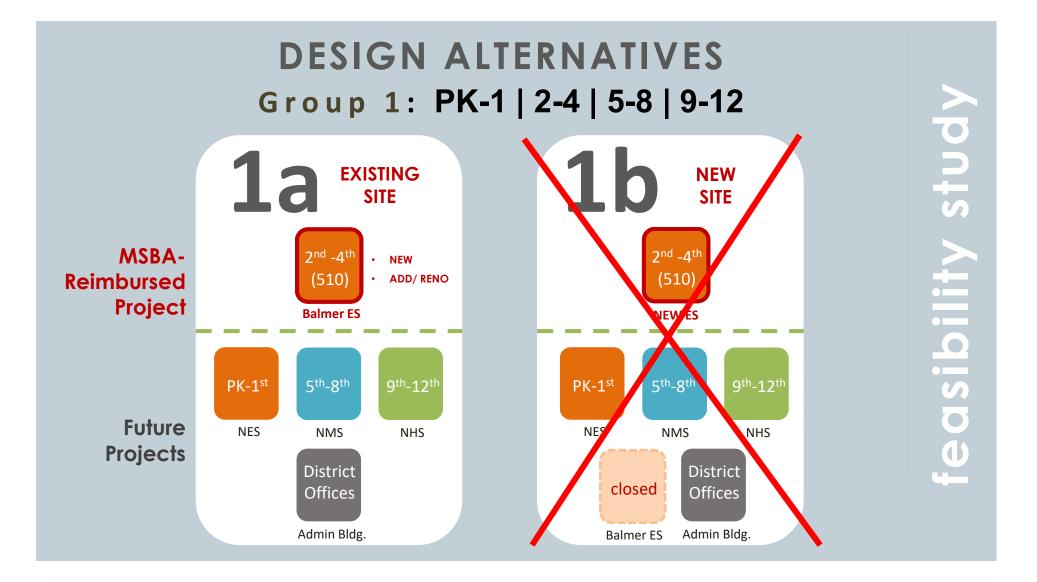
4=MOST DESIRABLE 0=LEAST DESIRABLE NOTES:

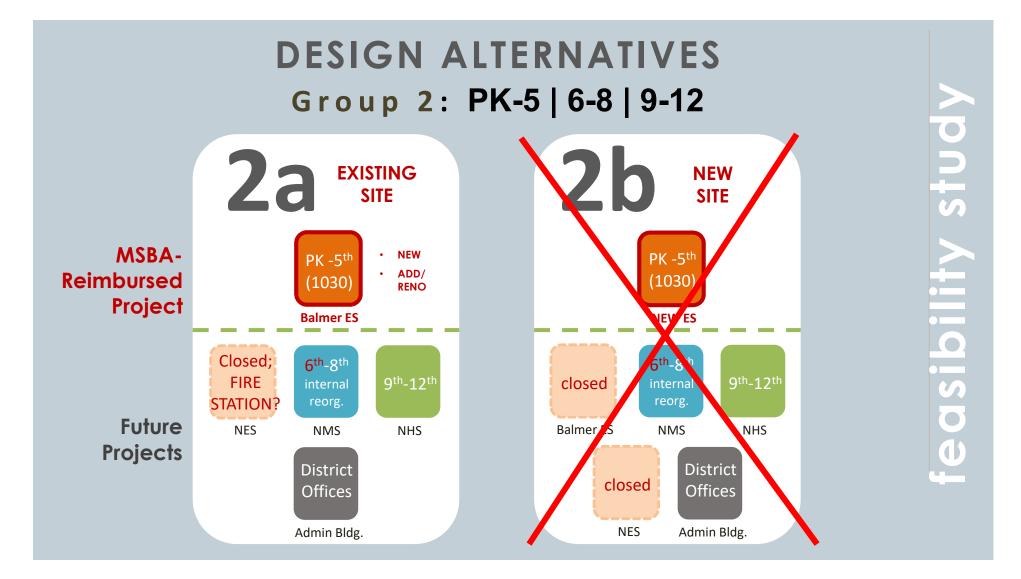
<sup>1</sup> Must replace HS fields - cifficult to do on this site

<sup>2</sup> Subject to change once purchase cost & terms known

\* No Town sewer at this site - would need package septic treatment facility

DRAFT 2 7/27/2017





#### **BALMER SCHOOL (EXISTING LOCATION)**













