



# SUFFIELD FACILITIES MASTER PLAN

BOE WORKSHOP

SUFFIELD, CT 9.20.2021



# Agenda

- 1. Recap of Project Goals
- 2. Work Completed to date
- 3. Summary of Findings
- 4. Schedule & Expected Next Steps
- 5. Interactive Discussion

# **Overarching Goals**



Create a comprehensive master plan for public buildings that will serve the Town's needs for the next ten years **plus! Think generational.** 



Assess the condition & programmatic needs



Discuss the priorities, capital projects & yearly CIP



Develop Options ~ Be innovative, be creative, be responsible, be nice!



Together, solidify a Master Plan for <u>Suffield's best future</u>

# WORK COMPLETED SO FAR...

## WORK COMPLETED ~ EXISTING CONDITIONS

## Tecton Architects

## **Areas Studied**

- 1. Site (Pavement, traffic circulation, signs, parking, curbs, sidewalks)
- 2. Architectural Exterior (Building envelope, roofs, windows, doors, masonry, trim, downspouts)
- **3. Architectural Interior** (flooring, ceiling, lighting, wall finishes, doors, frames)
- 4. Code ~ Accessibility / Life Safety (accessible entrances, lifts/ramps, floor clearance, sprinklers, fire alarm)
- **5. Building Systems** (plumbing, heating, ventilation, air conditioning, lighting, electrical systems, technology, fire protection, fire alarms)



#### WORK COMPLETED ~ PROGRAMMING

## Tecton ARCHITECTS

#### 1. Interviews of principals, facilities, and district leadership

#### 2. Questions Included...

- a. What spaces get the most use? The least? What is missing?
- b. What affects quality of education of a daily basis?
- c. What works well, what doesn't?
- d. How can this facility better support the staff and/or students?
- 3. Benchmarking existing space to industry standards.



## WORK COMPLETED ~ COMMUNITY ENGAGEMENT



- 1. Existing Conditions Survey July 2021 Results posted to Town website
- 2. Video Narratives Posted to Town website
  - A. Ward Spaulding Elementary
  - Town Hall Annex
  - (more coming soon)

#### 3. Open House Walkthroughs 6/26

- A. Ward Spaulding Elementary
- Police Department
- McAlister Intermediate School
- Suffield Middle School
- Fire Station #1 (Headquarters)
- 4. SOTG 11/12 and 11/13 Presentation boards & handouts, and Parker!



## WORK COMPLETED ~ COMMUNITY ENGAGEMENT



#### 5. Self-Guided Tours – Flyers for Open House Events

- A. Ward Spaulding 9/9
- McAlister Intermediate 9/14
- Suffield Middle School 9/21/2021

#### 6. Facilities Committee Meetings

- Meetings Held ~ 1/7/2020, 1/21/2021, 5/6/2021, 6/2/2021, 8/11/2021
- Upcoming 2021 Mtgs. ~ 9/23, 10/14, 12/9
- 7. Tri-Board Meeting ~ 6/14/2021
- 8. Upcoming Public Meetings
  - Public Forum & Workshops ~ November, January, and February (exact date TBD)



#### **SURVEY RECAP** ~ EXISTING CONDITIONS



**580** Total number of surveys completed!



Of respondents feel there is a need to address municipal facilities, but want a comprehensive approach

Would like to see a combination of additions & renovations with new buildings





Want to see more informational surveys as options are developed

#### SURVEY RECAP

88% of respondents identified as a Community

Member

The majority of respondents live in Suffield for the COMMUNITY CHARACTER\*



\*Followed by Schools, Regional Location,

Family-Community Connection, Public Safety, Town Services, Housing Quality & **Employment Opportunities** 

> 48% of respondents identified as a Parent of a Suffield Student

~75% of respondents are between the ages of 35-64 (evenly distributed)

> 47% of respondents have

lived in Suffield for 20+ years

#### **DRAFT REPORT PREPARED**



TABLE OF (	The Facility:		B.2	Condition Rankin	gs		
	Nome:	A. Wo	Ro	ankings:			
	Address:	945 M	1	Very poor [VP] Require	Interior		
INTRODUCTION	Type / Use:	Elema	2	Poor [P] May require a	Component	Material(s)	
INTRODUCTION					Flooring	Concrete	
Objectives	Total Building Area (SF):	71.40		Good [G] May require		Carpet	
List of Buildings	Site Area (acres):	19.5				Rubber	
List of Buildings	Stories (above grade):					Vinyl Asbestos Tile	
Ranking Systems Defined						Wood-Look Plank	
	Building / Framing Materials:	Lood.				Ceramic Tile	
	Malenais.	Compo		Material(s)		Stage	
UMMARY & ANALYSIS	. ·	Rooting	1	Membrane roof		Quarry Tile Vinyl Composite Tile	
	· ·			Asphalt Shingle F Flashing / joints	Walls Surfaces	Masonry (painted)	
	Split-level / ramps			Gutters / downst	Walls Solidces	Tile	
UILDINGS & SITES	(interior):	No		Fascia / trim		Glazed Tile	
A. Ward Spaulding School	Stairs (interior):	To Sto Walls		Masony Juncain		Gynsum board	
A. Hord spacially school	Elevator:	Lift to					
McAllster Intermediate Scho	Basement:	No		Building Sys	stems		
Suffield Middle School	Mezzanine (finished)	No		Component	Material(s)		Condition
Suffield High School		Entranc	es	Fire Protection	Alarms & De		4
Suffield High School	Crawl Space / Tunnels:	Yes	es		Alarms & De Fire suppres	sion (infrastructure / devices)	4
Suffield High School Town Hall Annex	Crawl Space / Tunnels:		es	Fire Protection Plumbing Systems	Alarms & De Fire suppress Infrastructure		4
Town Hall Annex	Auxiliary Buildings:				Alarms & De Fire suppress Infrastructur Fixtures	sion (infrastructure / devices) e (pipes, drains, etc.)	4
Town Hall Annex Senior Center	Auxiliary Buildings:	Yes Window		Plumbing Systems	Alarms & De Fire suppress Infrastructur Fixtures Overall effic	sion (infrastructure / devices) e (pipes, drains, etc.) iency	4 1 2 2 1
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Town Hall Annex Senior Center Police Department	Crawl space / Tunnels: Auxiliary Buildings: Full ADA Compliance:	Yes Window		Plumbing Systems Mechanical / HVA	Alarms & De Fire suppress Infrastructur Fixtures Overall effic C Infrastructur Heating syst	sion (infrastructure / devices) e (pipes, drains, etc.) iency e (pipes, ducts, etc.) ems	4 - 2 2 1 1 2
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Town Hall Annex Senior Center Police Department Fire Department 1 (HQ) Fire Department 2	Crawl Space / Tunnels: Auxiliary Buildings: Full ADA Compliance: School Data	Yes Window Clear Sinks	vs	Plumbing Systems Mechanical / HVA	Alarms & De Fire suppress Infrastructur Fixtures Overall effic VC Infrastructur Heating syst Cooling syst Fixtures & ec Fixtures & ec Overall effic	sion (infrastructure / devices) e (pipes, drains, etc.) eiency e (pipes, ducts, etc.) ems ems quipment (Interior) quipment (Exterior/Roof top)	4 - - 2 2 2 1 1 1 2 2 2 2 2 2 2 2
Town Hall Annex Senior Center Police Department Fire Department 1 (HQ) Fire Department 2 Fire Department 3	Crawl space / Tunnels: Auxiliary Buildings: Full ADA Compliance: School Data Enrollment(2020): Enrollment 10-vr:	Yes No Clear Sinks Walkwa Walkwa 451 419	vs ays / sille str / parking lo	Plumbing Systems Mechanical / HVA	Alarms & De Fire suppress Infrastructur Fixtures Overall effic VC Infrastructur Heating syst Cooling syst Fixtures & ec Fixtures & ec Overall effic ) Infrastructur	sion (infrastructure / devices) e (pipes, drains, etc.) eiency e (pipes, ducts, etc.) ems ems quipment (Interior) quipment (Exterior/Roof top) eiency e (panels, wiring, etc.)	4 - - 2 2 2 1 1 1 2 2 2 2 2 2 2 2 2
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#### 1. Report for all 11 Buildings.

- 2. Summary table for each building with key statistics
- 3. Conditions ranking by vintage
- 4. Breakdown list by component
- 5. Comprehensive Building systems

Resource tool for planning projects!

# **A. WARD SPAULDING SCHOOL** SUMMARY OF FINDINGS

Rosewood



1961 Addition — 60 yrs. 1954 Original Construction 67 yrs.

# 1985 Modular

36 yrs.

Grade Level	РК-2
Building Area/Site	71,406 sf / 19.5 acres
Age/Construction	1954 (67), 1961(60), 1985 (36), 1988 (33)

#### -1988 Addition 33 yrs.

2004 Code and MEP Improvements

Rosewood Dr



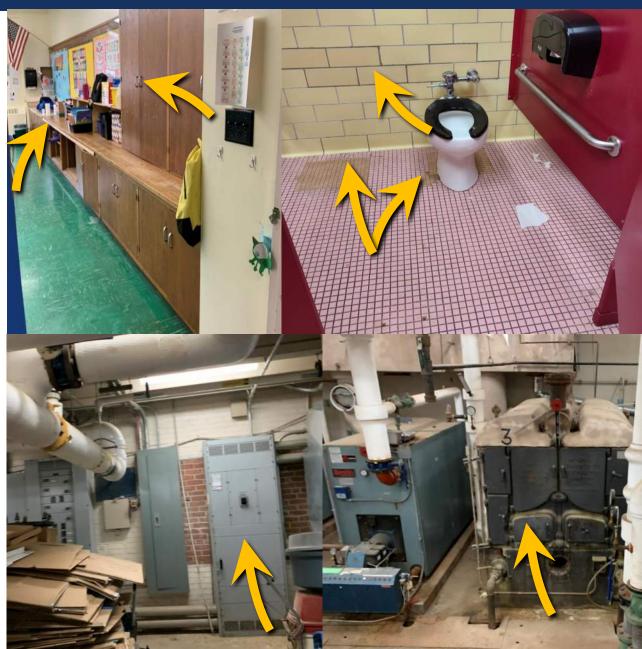


**Site** ~ Insufficient parking for events, parking immediately adjacent to building a safety concern, over 50% of paved areas and sidewalk in need of replacement, poor definition of school boundary, remote/unprotected playground and playscapes

Architectural Exterior ~ Masonry in need of repointing/repair, efflorescence on portions of building, windows approach 20 years, modular addition in poor condition

Architectural Interior ~ Overall well built, some replacement of finishes, ACM removal program, majority of finishes past useful life (millwork, floors, doors, ceilings)

**Code/Accessibility/Life Safety ~** Several accessibility compliance issues, floor clearances/reach at entranceways, sinks, and millwork, lift at stage.



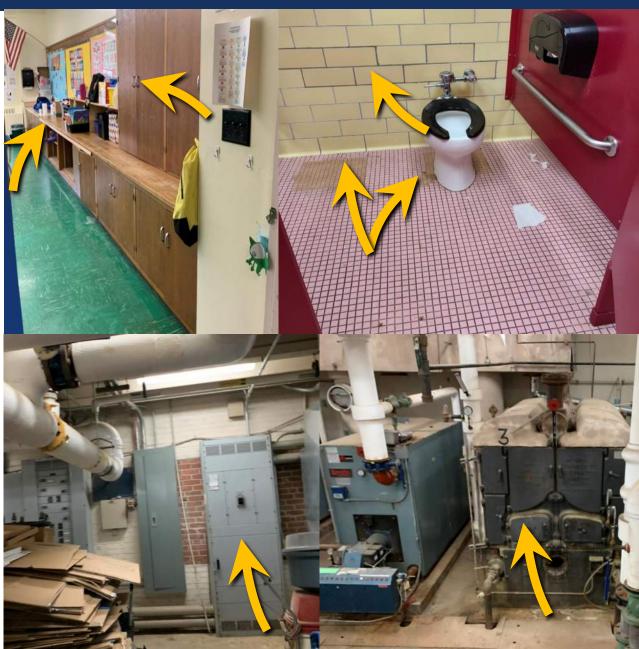


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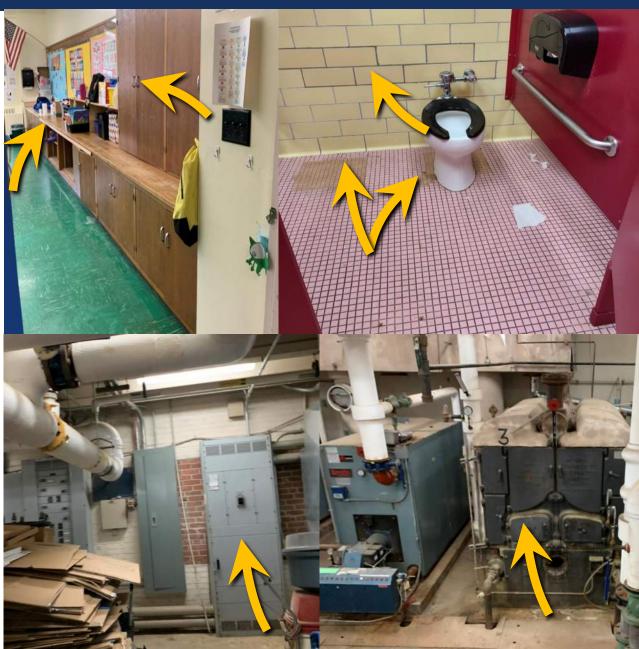


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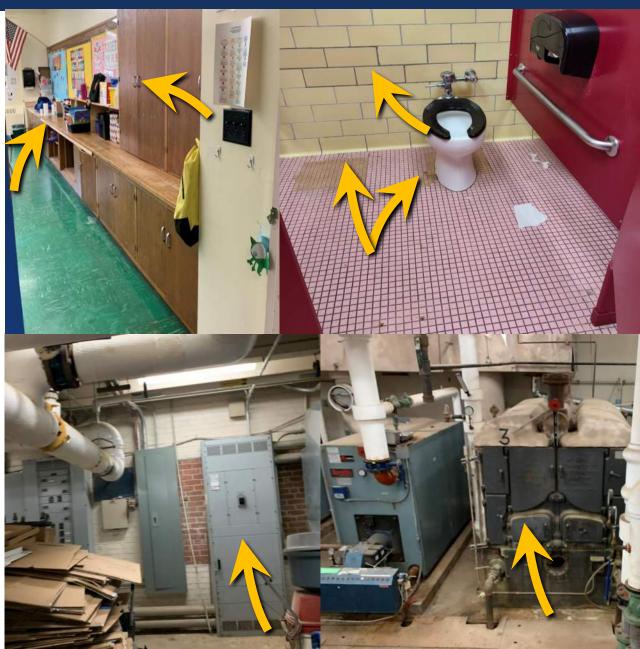


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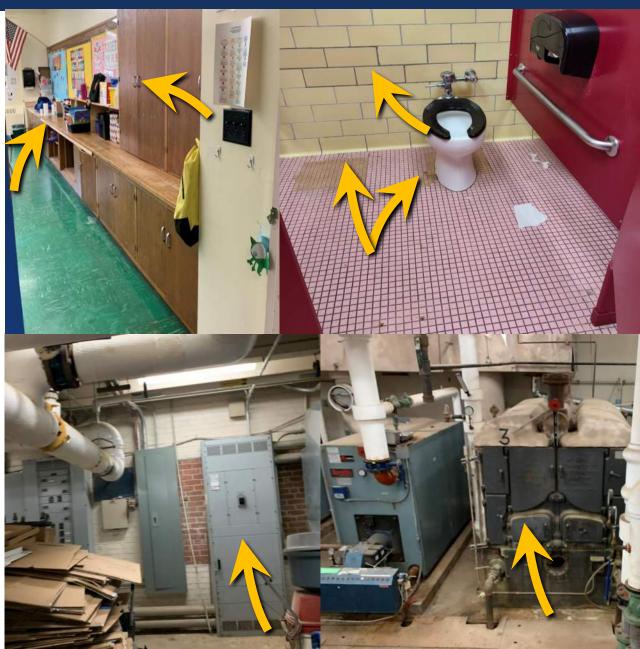


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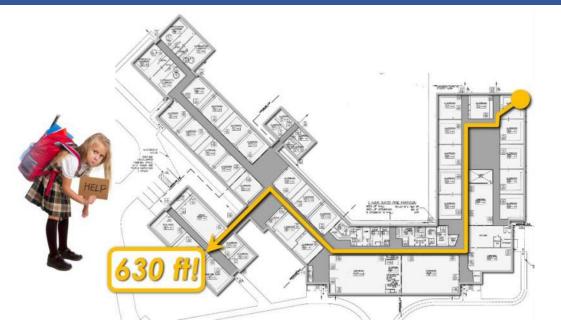
#### What's Existing

- Admin removed from Main Entrance, have to be escorted
- Specials are disjointed, too far away
- Auditorium only used a few times per year
- Summer program is growing, Before & After uses Cafeteria – no dedicated entry
- Special Education too far from Sensory Rooms, program needs more space

#### What's Desired

- Admin relocated close to Main Entry
- Improved flow to Specials, bring to Main Hall
- Convert Auditorium to Learning Lab
- Dedicated amenity space for Summer Program and Before & After care
- Improved flow to Special Education and Sensory Rooms
- Connections to Exterior, outdoor learning

Understanding the impact of your Building "The gift of time"



# MCALISTER INTERMEDIATE SCHOOL SUMMARY OF FINDINGS

Mountain Rd







**Site** ~ Site traffic, parking and perimeter security major concerns for site (pedestrian and vehicular safety), play areas exposed, no definition of school boundary, pavement & site lighting are in poor condition

Architectural Exterior ~ Several improvements over time, many poorly functioning windows, persistent water infiltration/leaks at windows, doors, roofs

Architectural Interior ~ Overall well built, some replacement of finishes, majority of finishes past useful life (millwork, floors, doors, ceilings), gym, lockers, toilets all poor. Significant noise transfer in original wood plank floors/struct.

**Code/Accessibility/Life Safety** ~ Many toilet areas non accessible, Several compliance issues at floor clearances/reach at entranceways, sinks, and millwork, lift at stage.





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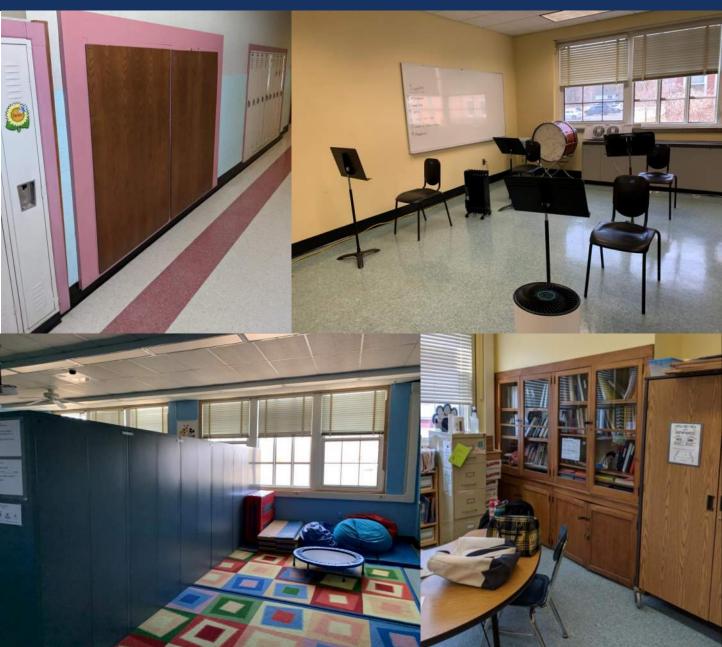


### MCALISTER INTERMEDIATE ~ PROGRAMMING



#### **Programmatic Observations**

- 1. Some classrooms are appropriate size, meet educational needs, although limited flexibility for grade level "pods", considering mixed grade pods
- 2. Good location for Admin Suite, Specials Classrooms (Music, Art, STEM), need appropriately size space
- 3. Noise/Acoustical transmission from 2<sup>nd</sup> floor
- 4. Lack of general classroom space on 1<sup>st</sup> floor, small footprint overall
- 5. Poor location and setup for Media Center, should be the "heart" center of school
- 6. One cafeteria proves to be difficult scheduling
- 7. Building reinvented so many times it becomes inefficient
- 8. Limited space for conference/small group, specialized education, teacher prep, large group
- 9. Site security, parking, & boundary ongoing concern, limited opportunity for outdoor classrooms



# SUMMARY OF FINDINGS

S THE

1964, 1965 (Vo-Ag), 1972, 2002

COLVER \_\_\_\_\_



#### 1965 Vo-Ag 56 years 1964 Original Construction 57 years 1972 Additions & Alterations 49 years Property Card has 286,843 sf 2002 Conversion from High Grade Level 6-8 School to Middle School **Building Area/Site** 128,489 sf / 32.4 acres (shared) Age/Construction



**Site** ~ Site conditions are in fair to poor condition for; sidewalks, curbs, paving, drainage issues, site traffic flow, parking, security major concerns. Areas of poor drainage on west/southwest side of site.

Architectural Exterior ~ Consistent roof leaks, roof replaced in phases by different contractors, majority of brick in fair to good condition, lintels are in fair to poor condition.

Architectural Interior ~ Overall, well maintained, original building well built, other areas poorly constructed. Significant inefficiencies due to additions/renovations over time, noise/Acoustical concerns (70's modular). Lack of natural daylight creates poor educational environment.

**Code/Accessibility/Life Safety** ~ 2002 upgrades addressed some code issues, accessibility compliance issues remain, floor & push/pull clearances & reach req.





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#### **Programming Discussions**

- 1. Some classrooms are decent size throughout school although many of the specialized classrooms are not sized nor do they function correctly (ex. World language)
- 2. Flow of the overall building a concern, tough to implement team model, share spaces, promote collaboration ~ important for this demographic.
- 3. Specialized teaching rooms & core facilities biggest concern – band, cafeteria acoustics & queuing, media center, family & consumer science outdated, limited space for tech ed., many poorly located
- 4. Lack of efficiency in the layout affects quality of education, time in class, and programs offered.
- 5. Currently circulate through classroom to attend special education classes, would like to centralize and share, save on time & reinvest into student
- 6. Several areas underutilized due to age/condition, discontinued and/or change of original use



# SUMMARY OF FINDINGS

INF PE FF

A. 1

WEREFEERE IN

Sheldon St



2002 Original Construction

19 years

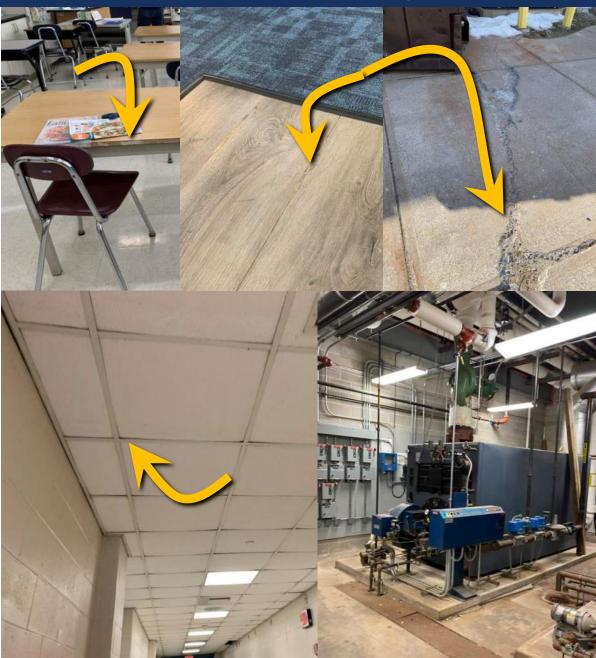
Grade Level	9-12
Building Area/Site	204,016 sf / 60.48 acres
Age/Construction	2002 (19)



**Site** ~ Site circulation concerns – separation of bus, parent, and student. Pavement, sidewalks in fair condition overall, areas deteriorating, cracking, spalling. (Differential settlement at bollards ~ a representative indication of poor soils and/or moisture migration) Site walls show efflorescence/water infiltration

Architectural Exterior ~ Generally good to fair condition. Durable and well maintained. Recommend prev. maintenance (caulking/sealants), gaps in perimeter roof flashing lead to loss of energy and wildlife, 15 year roof design, 4 years out of warranty.

Architectural Interior ~ Overall, well maintained, some areas of questionable quality of original construction. Building has worn faster than anticipated. Slab cracking with possible water/vapor infiltration, persistent issue, finishes/glue to bubble, curious curling ceiling tiles HVAC balancing issue. Fairly significant deterioration of furniture in areas, in some cases it is mismatched.

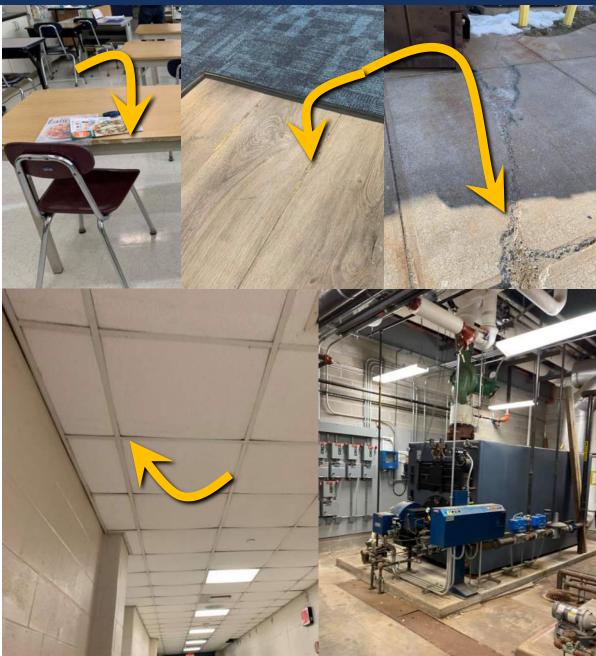




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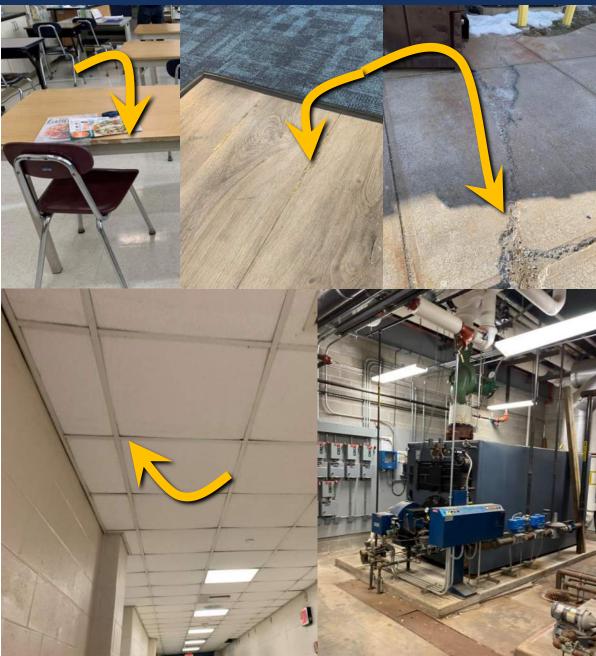




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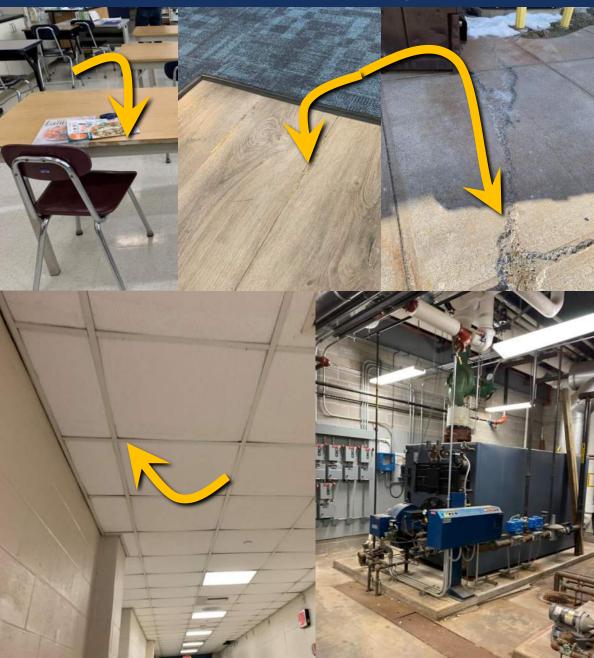




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## **SUFFIELD HIGH SCHOOL** ~ PROGRAMMING



- 1. Would like to integrate more collaborative spaces, working toward this @ media center
- 2. Ideally reinvent antiquated program space (dark room area, computer, material lab)
- 3. Investigate possibility of new classroom furniture to promote collaboration, flexibility, adaptable space ~ less "owning" of room
- 4. Integrate idea of a campus setting, more progressive approach to program layout
- 5. Rethink utilizing areas in multiple ways (ex. auditorium for "lecture hall" setting)
- 6. Distribute specialized & social emotional / wellness to be more integrated into daily routine, "be there"
- 7. Create Innovation Hub (Manufacturing), Career Center, Education & Health Service – Career & College Ready
- 8. Modify existing underutilized space for flexible space with progressive furniture and technology infrastructure



## SUMMARY OF FINDINGS ALL SCHOOLS

## Summary of Findings ~ School Buildings 🎯



- Most buildings have been well maintained yet, No building has received comprehensive, like new, renovations.
- 2. Reuse, modification, and past adaptations affect building use
- 3. With exception of the High School, **the majority of building systems** (MEP) are at or near end of useful life.
- 4. Recommend district further define school boundaries, security, and traffic flow/safety.
- 5. Accessibility concerns throughout, uneven attempts at compliance.
- 6. Limited ability to introduce progressive programs
- 7. Lack flexible/adaptable space for 21<sup>st</sup> century learning.

## SETTING THE TABLE CONSIDERATIONS

## **Future Considerations** ~ School Buildings

- Well maintained over years, but original infrastructure need upgrades ~ (debatable what is first ~ Middle School, McAlister, Fire Station HQ, AW Spaulding)
- 2. Not about capacity, nor is it easy to consolidate
- 3. Need to find "Swing Space" for any renovation/addition
- 4. Adaptive reuse of any obsolete structures (if in plan)
- 5. Fiscal responsibility
- 6. Scale buildings that are befitting of Suffield (3 vs. 4 schools, or a school within a school, i.e. student population)

## Future Considerations ~ School Buildings

- 7. Importance of Modernizing Educational Environment
- 8. Interdisciplinary education, creation of campus style
- 9. Consider shared use with town (i.e. professional development, training, IT, tech, BOE, athletics/community use, central storage, parks & recreation)
- 10. Engage the community
- 11. Commitment to Sustainability
- 12. Plan is a combination of yearly improvements & capital projects

## WELL MAINTAINED BUT.... NEED WORK, WHICH ONE FIRST





## **FUTURE CONSIDERATIONS** ~ CAPACITY ANALYSIS



						E	nrol	lmer	nt Pr	oject	tions	, by	Grad	1 <mark>1</mark> : 2	020·	-21 1	to 20	30-3	1 (Me	dium)			
		s	chool Ye	ear	к	1	2	3	4	5	6	7	8	9	10	- 11	12	РК	PK-2 Total	3-5 Total	6-8 Total	9-12 Total	PK-12 Total
		2	020-21		134	137	142	127	129	137	142	143	155	203	176	211	196	41	454	393	440	786	2,073
		2	021-22		143	147	145	144	129	134	139	144	145	171	200	176	198	50	485	407	428	745	2,065
		2	022-23		124	150	150	143	141	130	136	140	146	160	168	200	165	50	474	414	422	693	2,003
		2	023-24		131	130	153	148	140	142	132	137	142	161	158	168	188	50	464	430	411	675	1,980
		2	024-25		135	137	133	151	145	141	144	133	139	156	159	158	158	50	455	437	416	631	1,939
		En	rollr	nent	Pro	jecti	ions,	, by	Grad	le: 20	)20-2	21 to	203	<b>0-3</b> 1	1 (Hi	igh I	Mod	el)			:4	614	1,929
										-			_		PK	_	3-5	6-8	9-12	PK-12	1"	603	1,924
School Year	К	1	2	3	4	5	6	7	8	9	10	11	12	РК	То		Total	Total	1 ta	Total	84	605	1,920
2020-21	134	137	142	127	129	137	142	143	155	203	176	211	196	41	45	54	393	440		2,073	;7	612	1,923
2021-22	150	149	144	146	130	133	139	145	145	177	205	173	203	50	49	33	409	429	758	2,089	.7	626	1,930
2022-23	130	159	150	144	145	130	135	142	147	165	179	201	166	50	48	39	419	424	711	2,043	8	647	1,942
2023-24	138	138	161	150	143	145	131	138	144	168	167	176	193	50	48	37	438	13	704	2,042			
2024-25	141	146	139			_			-			• •	_				_	420	667	2,016			
2025-26	142	149	147		5	6				C	IS	i				20		430	651	2,017			1
2026-27	135	150	150	•			U	<b>U</b>									•	-1	639	2,020			esn'i
2027-28	137	143	151	150	146	138	162	154	150	173	155	158	157	50	48	31	434	466	643	2,024	1	gro	wth
2028-29	138	145	144	151	149	146	140	165	156	171	175	152	152	50	47	77	446	461	650	2,034	1	-	
2029-30	140	146	146	144	150	149	148	143	167	178	173	172	146	50	48	32	443	458	669	2,052	1	Date	a from
2030-31	142	148	147	146	143	150	151	151	145	190	180	170	165	50	48	37	439	447		2,078			

#### n't appear to be a th or consolidation.

om SLR Report April 2021



### **MEDIUM PROJECTION\***

BUILDING	GRADE CONFIG.	CUR. ENROLL. (Sept. 2021)	FUTURE ENROLL.	EXISTING AREA	AREA PER STATE STD. (BASED UPON FUTURE ENROLL)	DELTA
AW SPAULDING ELEMENTARY	PK-2	464	<b>485</b> (Yr. 2021-22)	69,670	58,200	11,470
McALISTER INTERMEDIATE SCHOOL	3-5	400	<b>437</b> (Yr. 2024-25)	69,548	56,952	<u>12,623</u>
SUFFIELD MIDDLE SCHOOL	6-8	437	<b>448</b> (Yr. 2027-28)	<b>117,236</b> (4,031 BOE, 10,530 IT)	75,224	42,012
SUFFIELD HIGH SCHOOL	9-12	<b>727</b> (Agriscience 165)	<b>786</b> (Yr. 2021-2022)	182,025	143,742	<u>38,283**</u>

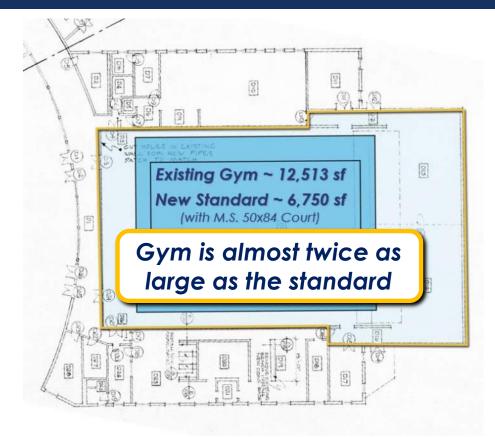
\* BASED UPON MEDIUM PROJECTIONS FROM SLR REPORT APRIL 2021

\*\* DOES NOT INCLUDE INCREASE FOR AGRISCIENCE, FURTHER REVIEW OF ORIGINAL GRANT IS REQUIRED

Yes, there is "extra" space but, its not that simple! Let us explain.

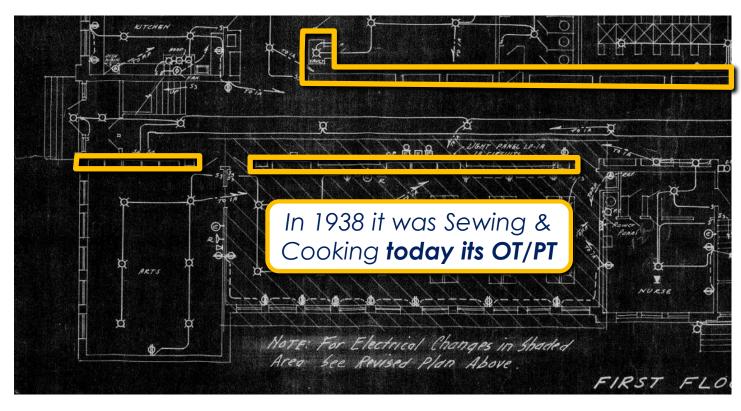
## FUTURE CONSIDERATIONS ~ IS THE "EXTRA" USEABLE?





## Suffield Middle School

- Oversized Gym for a Middle School
- Former High School Lockers difficult to adapt and reuse for educational purposes



#### McAlister Intermediate School

- Multiple adaptations have led to variances in room size for current programs (both large and small) and inappropriate space for specialized education.
- Walls are thicker with obsolete built-ins rendering portions of the building "unusable"

## **FUTURE CONSIDERATIONS** ~ IS THE "EXTRA" USEABLE?



# Defining the "USEABLE" area of your building.

**Yellow Outline** 

Area ~ 73,764 SF

#### **Blue Area**

Basement ~ 2,548 SF Grade Level ~ 12,833 SF Upper Level ~ 9,016 SF + Chases, wall thickness, etc (3.5%)...

Blue Area (25,250 sF) Yellow Outline (73,764 sF) 34.2%

Typical Efficiency Factor ~ 25-30% Loss of Education Space is 2,800 – 6,500 sf





	2019 GENERAL CONST.	2019 NEW CONST.	2020 GENERAL CONST.	2020 NEW CONST.		2021 SENERAL CONST.	2021 NEW CONST.
SUFFIELD	<b>51.79%</b>	<b>41.79</b> %	53.57%	43.57%		55%	45% 🗲
OXFORD	37.5	27.5	37.14	27.14	7/	38.57	28.57
TOLLAND	50.71	40.71	50.36	40.36		48.93	38.93
ELLINGTON	57.14	47.14	57.5	47.5		56.43	46.43

## State School Reimbursement

Have seen a moderate increase in last few yrs.

## "Renovate Like New" 🗡

Renovation Status – maximum demolition of existing structure: The OSCG&R has revised its policy regarding maximum allowable demolition of an existing school building for renovation status. Effective 7/1/2018, districts can demolish whatever portion or percentage of the existing building they want, but at least 55% of the total project at time of completion must be original construction.

## **Consider This...**

- Keep/Renovate 55%
- Construct 45% New
- 10% higher reimbursement

0% for maintenance

## **EXPLORING POSSIBLE SYNERGIES WITH TOWN...**



### WELLNESS

FITNESS ROOM GYM LOUNGE / LOCKERS HEALTH & WELLNESS ROOM FOOD PANTRY KITCHEN

### TRAINING - CONFERENCE

DYNAMIC CONFERENCING CENTER FLEX WORKSPACE INFORMAL MEETING / TRAINING CAFÉ & BISTRO BUSINESS TECH CENTER COMMUNITY LIVING ROOMS

#### PROGRAMS

BEFORE & AFTER CARE SUMMER CAMPS CONTINUING EDUCATION BUSINESS INCUBATOR / START-UP TECH ED / R&D SHOP / MAKERSPACE

### OUTDOOR

COMMUNITY GARDEN AMPITHEATER SPORTS FIELDS NATURE TRAILS RAINWATER COLLECTION PLAYGROUNDS DOG PARK

## **EXPLORING POSSIBLE SYNERGIES WITH TOWN...**





## EXPLORING POSSIBLE SYNERGIES WITH TOWN...





## QUALITY OF EDUCATIONAL ENVIRONMENTS WHY IT MATTERS



#### **COLLABORATION SPACES**



#### ADAPTABLE & RECONFIGURABLE



**SPATIAL QUALITY + TECHNOLOGY** 

PLACEMAKING

#### **OWNERSHIP & PERSONALIZATION**



SOCIAL ENRICHMENT



## Why It Matters ~

On average, children spend...





Child Mind Institute https://childmind.org/article/whykids-need-to-spend-time-in-nature/



**EPA** https://www.epa.gov/iaq-schools/what-youcan-do-improve-academic-performance WHOLE CHILD WELLNESS

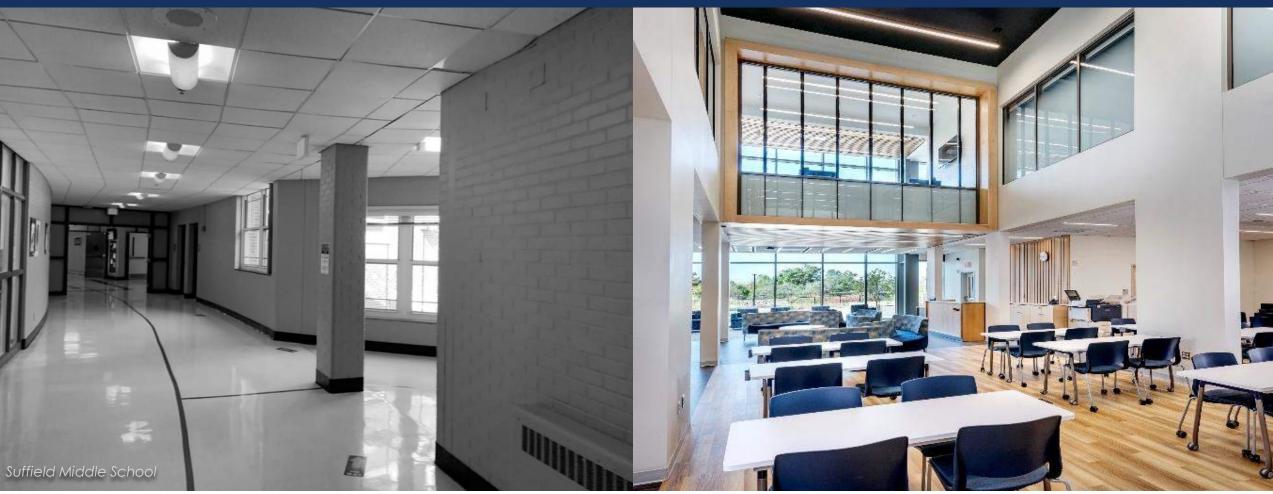


#### THE PHYSICAL ENVIRONMENT IMPACTS STUDENT LEARNING PROGRESS BY



Building and Environment Journal https://www.sciencedirect.com/science/article/abs/ pii/S0360132312002582





## Collaboration Areas & Circulation Zones~

Daylight...

STUDENTS IN CLASSROOMS WITH MORE NATURAL DAYLIGHT PROGRESSED...



**EPA** https://www.epa.gov/iaq-schools/indoor-airquality-high-performance-schools#how





## **Typical Classrooms** ~

Flexible space, adaptable & reconfigurable furniture...

WITH SOFT SEATING, FLEXIBLE SEATING, SEATING CHOICE...

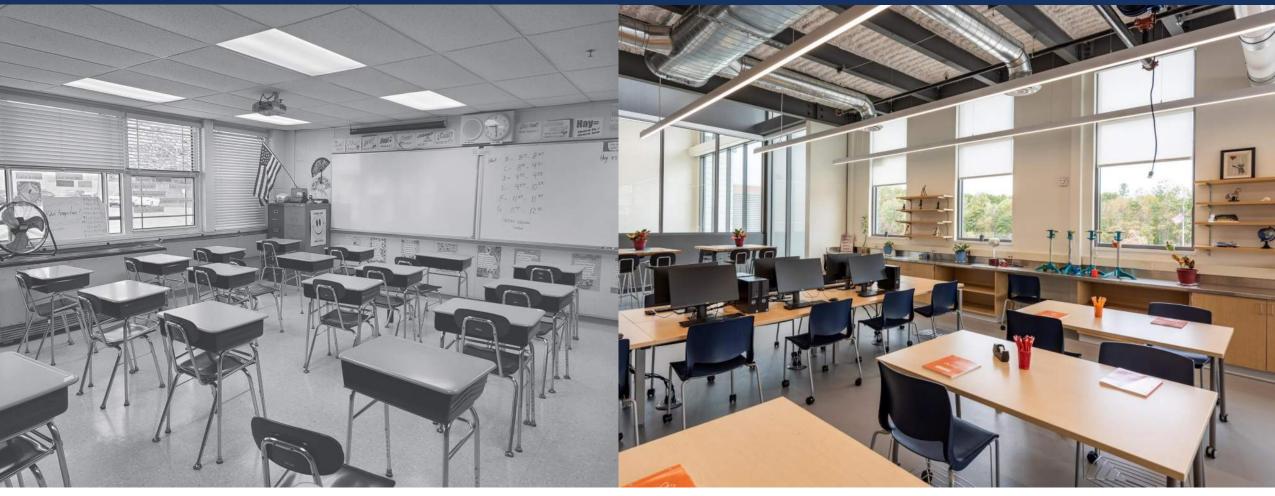


**8%** REDUCTION IN DROPOUT RATE

**10Y** OUTPERFORMED THE STATE IN MATH, SCIENCE & READING

Albemarle County Public Schools https://www.edutopia.org/practice/flexible-classrooms-providing-learning-environment-kids-need; AND; https://www.youtube.com/watch?v=4cscJcRKYxA





## **STEM Classrooms** ~

Fully Integrated Technology and what it supports... 2/3 WANT TO DO ENGINEERING

STARTING AT 9-15 AGE 9-15 THEY ARE FASCINATED BY SCIENCE



The Third Teacher http://thethirdteacherplus.com/resources





## Personalization ~

Student Work, Neighborhoods, & Wayfinding...

# "Do I Belong?"

The Greater Good Science Center at the University of California, Berkeley https://greatergood.berkeley.edu/article/item/how\_to\_help\_students\_feel\_a\_sens e\_of\_belonging\_during\_the\_pandemic THE ANSWER IS LINKED TO WHETHER STUDENTS SUCCEED & THRIVE SOCIALLY, EARN HIGHER GRADES AND OPT INTO AND SUCCEED IN MORE DIFFICULT COURSES





## Nature & Outdoor Learning ~

Nature, natural sounds, natural materials and natural patterns...





VIEWS TO NATURE FOR 405 LED TO FEWER MISTAKES ON FOCUSED TASKS

HAPPINESS & PRO-SOCIAL BEHAVIOR

Welcome to Your World by Sarah Williams Goldhagen

APA https://www.apa.org/monitor/2020/04/nurtured-nature





## Nature & Outdoor Learning ~

Nature, natural sounds, natural materials and natural patterns...

REDUCES STRESS LEVELS IN JUST



VIEWS TO NATURE FOR



LED TO FEWER MISTAKES ON FOCUSED TASKS



Welcome to Your World by Sarah Williams Goldhagen

APA https://www.apa.org/monitor/2020/04/nurtured-nature





### Whole Child Wellness~

WELL is for people...



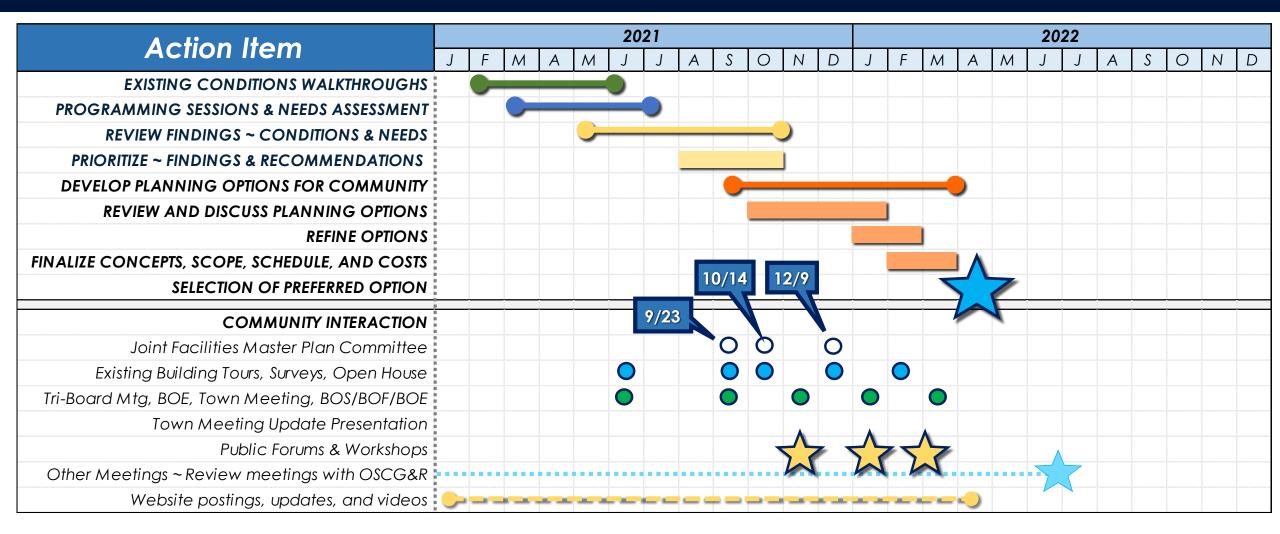
AND THEIR EFFECTS ON

## HUMAN HEALTH

IWBI https://www.wellcertified.com/certification/v2/

## **UPDATED MILESTONE SCHEDULE**





## **THANK YOU!** DISCUSSION - Q&A

Mountain Rd

## **BOE WORKSHOP** ~ASK, LISTEN, UNDERSTAND



- Do any of the findings surprise you?
- What do you believe is the greatest need?
- What do you see as a priority?
- What works well now? What doesn't?
- Do you believe there is a need?
- What would you change about previous projects?
- Is more information needed? If so, what?