



Agenda of Facilities Committee Meeting

The Board of Trustees Belton Independent School District

A Facilities Committee Meeting of the Board of Trustees of Belton Independent School District will be held August 11, 2021, beginning at 4:00 PM in the Big Red Room, 400 N. Wall Street, Belton, TX 76513. One or more trustees may participate via video conference.

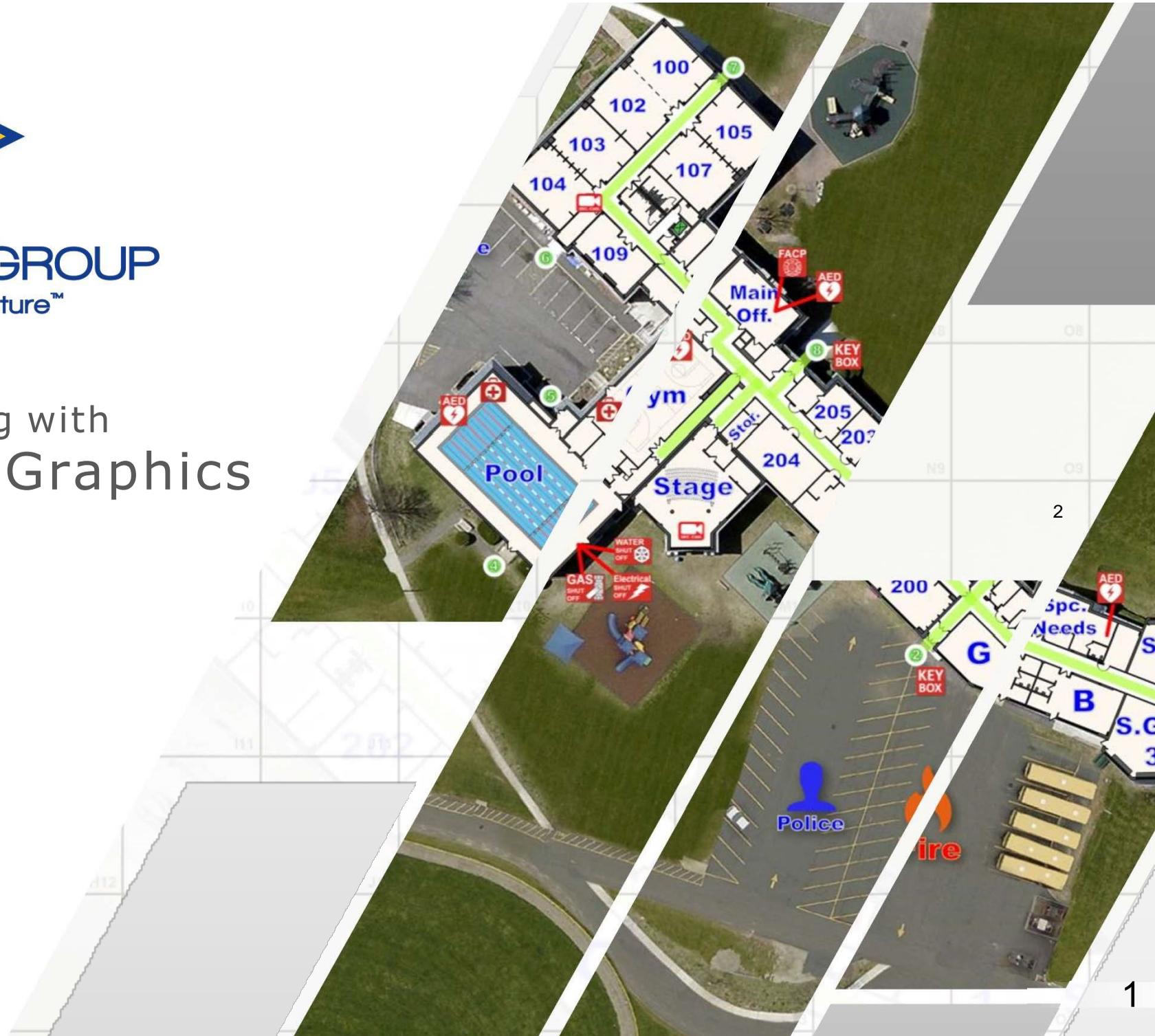
The subjects to be discussed or considered or upon which any formal action may be taken are listed below. Items do not have to be taken in the same order as shown on this meeting notice.

- 1. Call to Order**
- 2. Public Comments**
- 3. Review and Discuss the Following Items:**
 - A. Digital Mapping Tool 2
 - B. Comprehensive Long-Range Maintenance Schedule 14
 - C. Elementary Design Team Update
 - D. Facilities Improvement Funds Update
 1. 2019 Capital Projects Budget 18
 2. 2017 Remaining Bond Funds 19
 - E. Potential Bond Exploration Process 20
- 4. Issues/Concerns for Future Agenda or Administrative Reports**
- 5. Adjourn**



CRITICAL RESPONSE GROUP
America's Common Operating Picture™

Understanding and Communicating with Collaborative Response Graphics (CRGs)





THE TWO TYPES OF CRGs

Critical Response Group generates a MACRO and Micro CRG for each location.



3

Use the **MACRO** to understand the outer perimeter of the entire property or location.

- Use for planning evacuation routes and assembly areas
- Plan traffic control points and traffic management
- Plan designated areas for arriving family members and media
- Quickly expand the operational area in emergent circumstances
- Quickly identify and communicate triage areas and helicopter landing zones
- Plan positions for command posts and supporting personnel and equipment
- Plan staging areas for contingencies

Use the **Micro(s)** to understand the detailed structure of your building(s)

- View high-resolution imagery and floorplans as if you are directly overhead
- Use the overlaid alphanumeric grid to more rapidly communicate positions within and around the building
- Allows those with no previous knowledge of the facility to quickly understand the layout
- Use to direct assets when the situation dictates a change in tactics or operations
- Use to communicate to first responders where you are as well as the current location of the incident

2

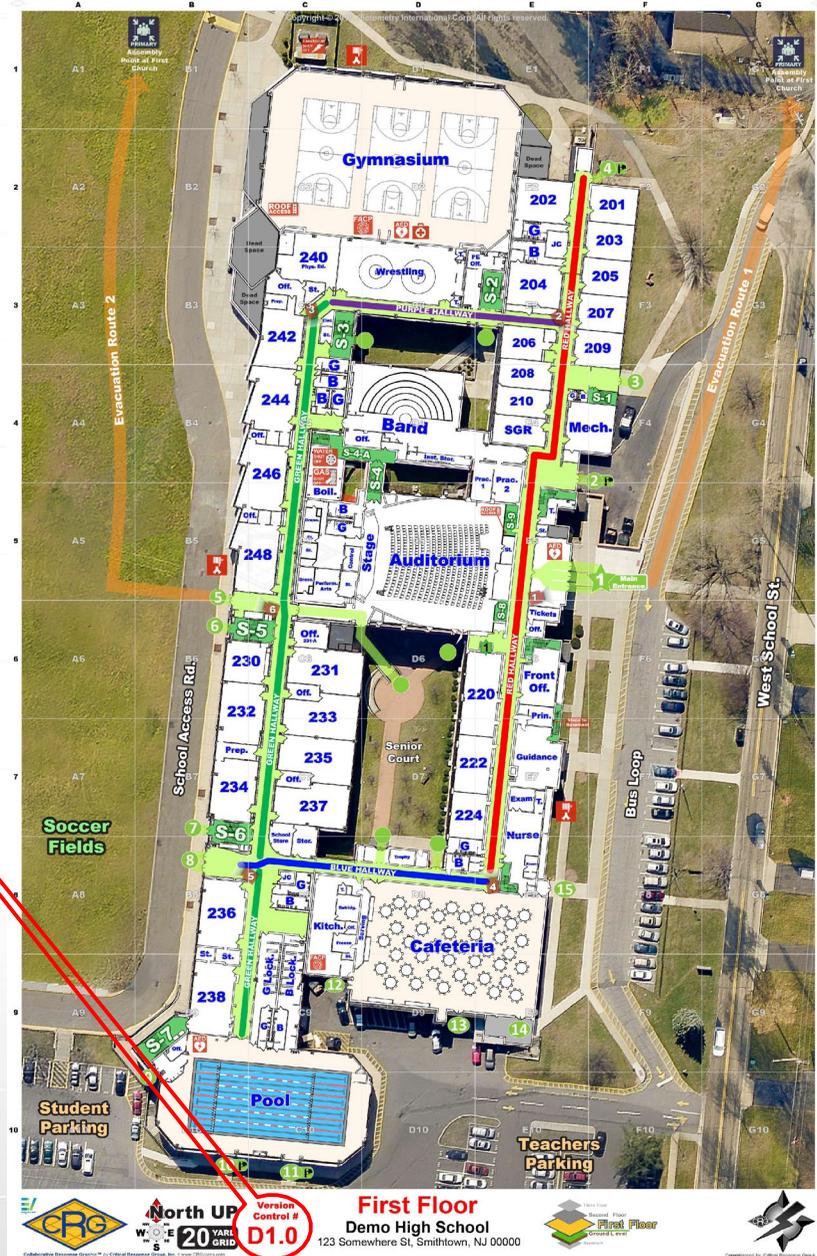


VERSION CONTROL

This is the Version Control number

This number designates the version of the Collaborative Response Graphic being used and ensures that everyone is, quite literally, on the same page.

The version control number **must** be verified before a CRG is used for planning or operations to ensure that all personnel are using the most current version of the product.





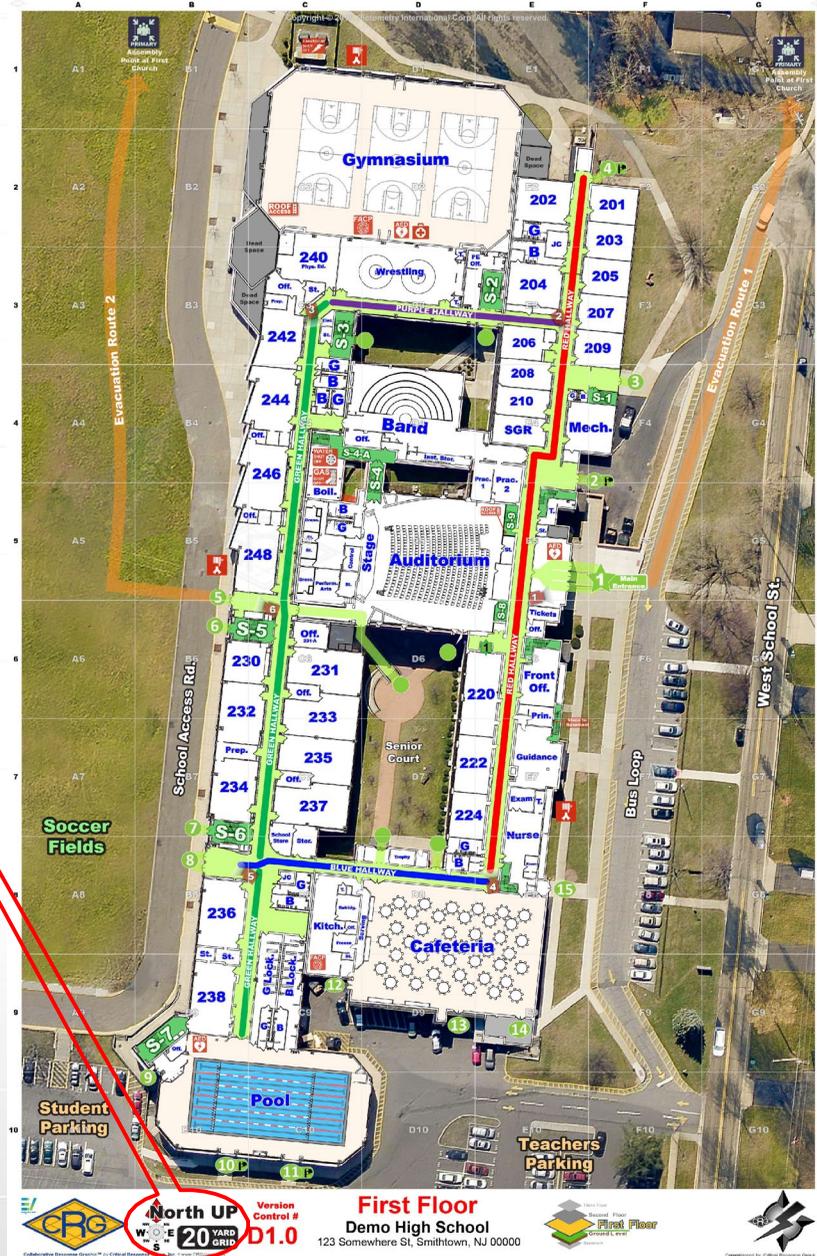
ORIENTATION

On a CRG North is always up.

This one absolute is the foundation for common communication as it allows for easy communication of cardinal directions.



*Alternative directional marker on smaller width products

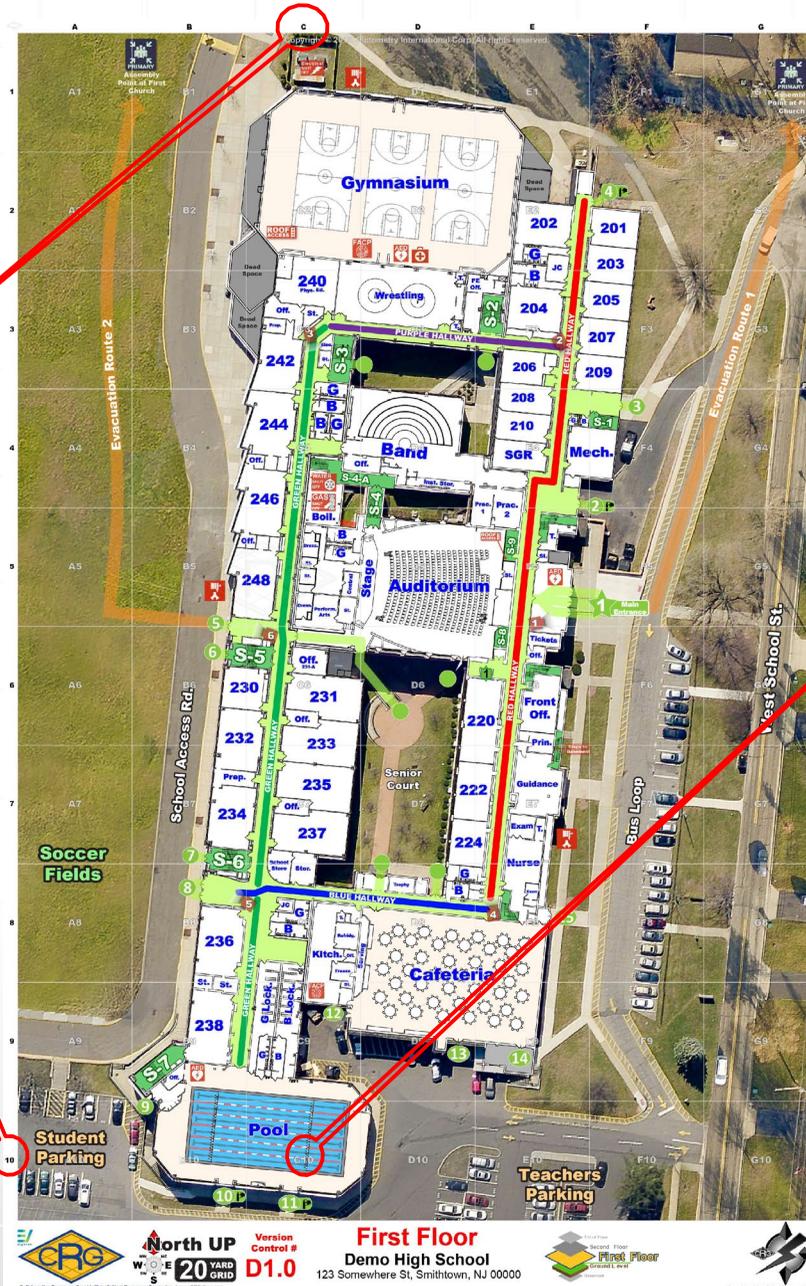


GRID OVERLAY WITH ALPHANUMERIC CODES



Alpha Column Codes are used to communicate a location within a column (in this case, Column “C”).

Numeric Row Codes are used to communicate a location within a row (in this case Row “10”).



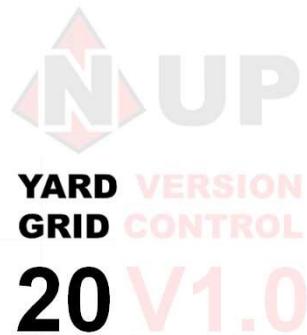
When combined, Column and Row codes can effectively communicate location: “The problem is in the Pool, grid square C10.”



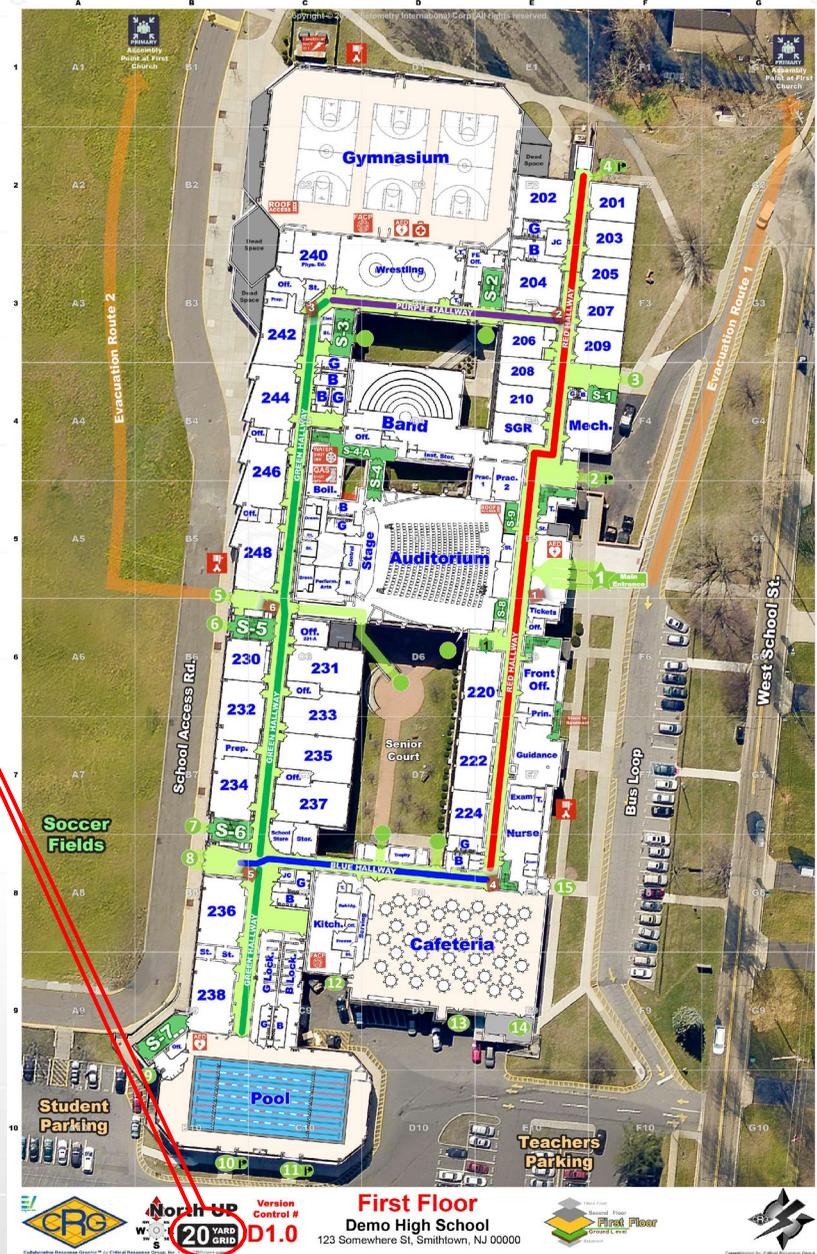
GRID SIZE

This is both the horizontal and vertical distance of each grid square. In this case, each grid square is 20 yards wide and 20 yards high.

Grid squares can be used to visualize and communicate distances.



*Alternative grid square declaration on smaller width products



CRG North UP Version Control # 20 YARD GRID D1.0 First Floor Demo High School 123 Somewhere St, Smithtown, NJ 08000



LOCATION

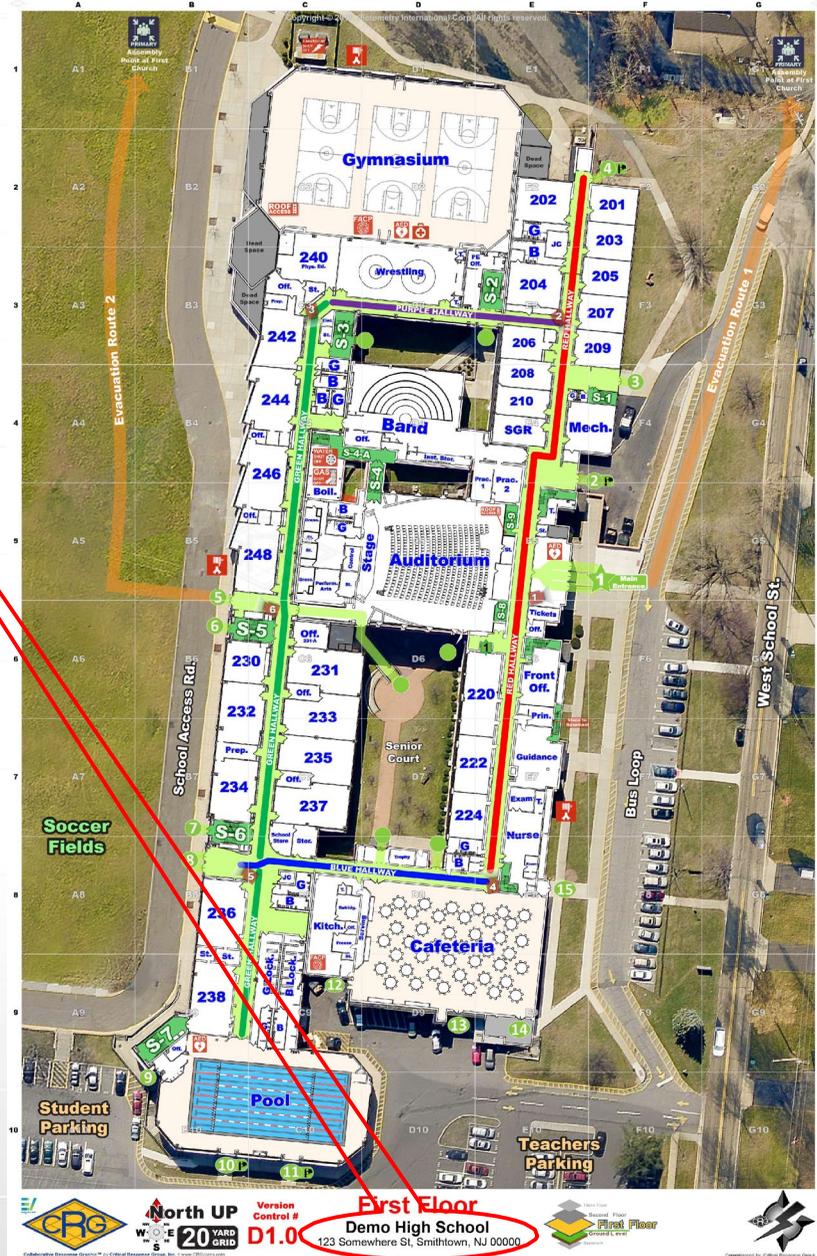
This is the name and street address of the location depicted by the CRG.

This should be used in conjunction with the CRG Product Designator and Version Control Number to ensure that all personnel are referencing the proper product.

First Floor

Demo High School

123 Somewhere St, Smithtown, NJ 00000





PRODUCT DESIGNATOR

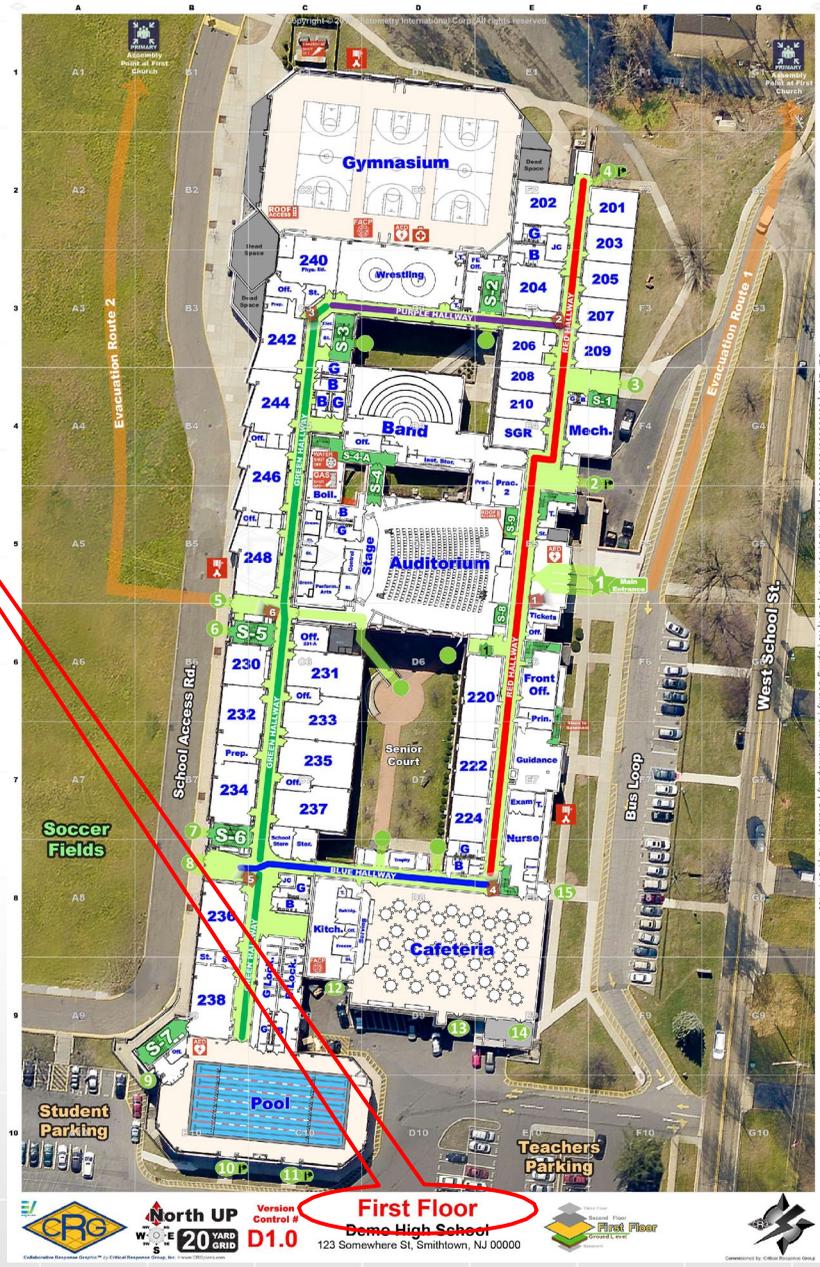
This is the Product Designator. This specifies a **MACRO** CRG or, for **Micro** CRGs, the Floor Number or level depicted on the CRG.

This should be used in conjunction with the address or common name and Version Control Number to ensure that all personnel are referencing the proper product.

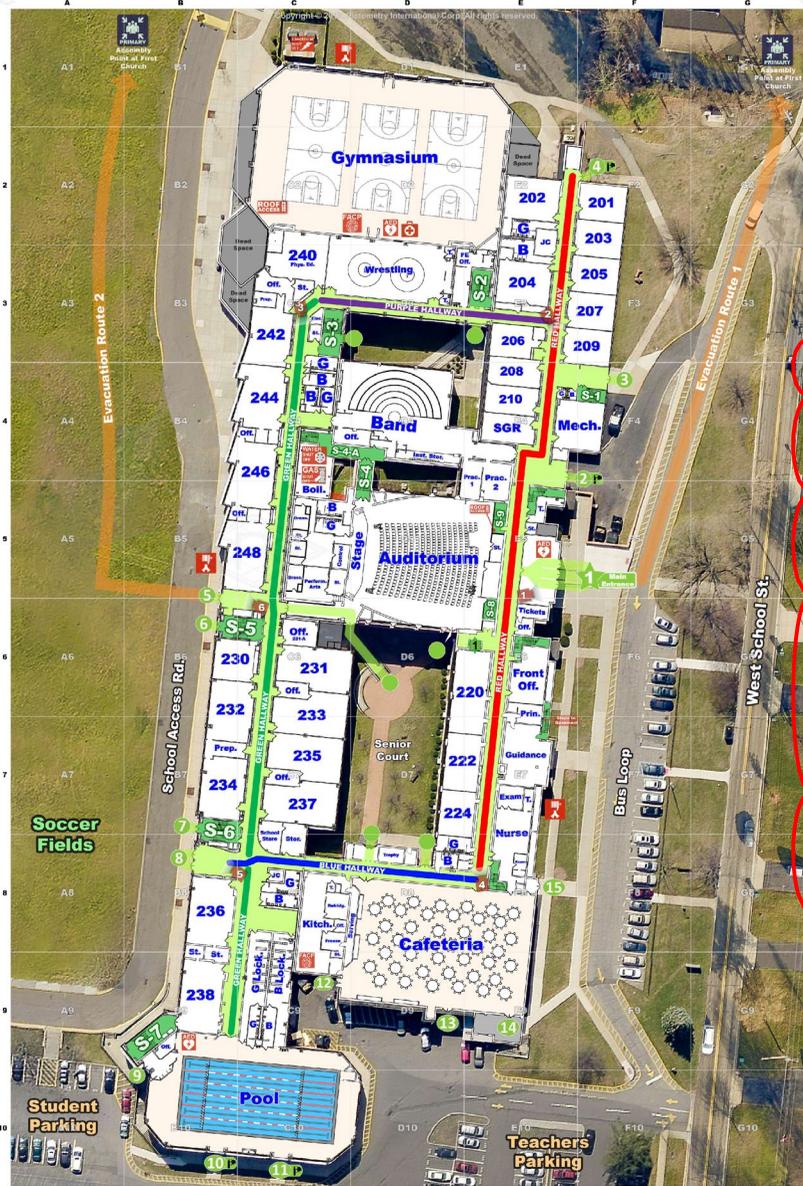
First Floor

Demo High School

123 Somewhere St, Smithtown, NJ 00000



PRODUCT MARGINAL DETAILS



Date product was published

This is not the date of imagery capture.

Latitude and Longitude coordinates

US National Grid coordinates

Country, State, County, and Municipality

Approximate Grades and Population of School



Communicating with a CRG

The first principle of a CRG is that the orientation of the map is always positioned with the top of the graphic being north. Sometimes a structure could be made to appear larger if it was rotated to better fit into the rectangular page. However, strict adherence to “North is always ‘up’” allows for consistent use of cardinal directions. When using cardinal directions, anyone who picks up a CRG knows that something to the left on the CRG is west, right is east, below is south, and above is north.



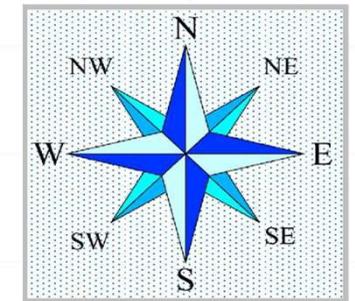
North, South, East, and West can then be combined to more accurately describe positions. Using North or South first, and adding East or West, gives the eight ways to describe location and/or direction:

1. North
2. Northeast
3. Northwest
4. East
5. South
6. Southeast
7. Southwest
8. West



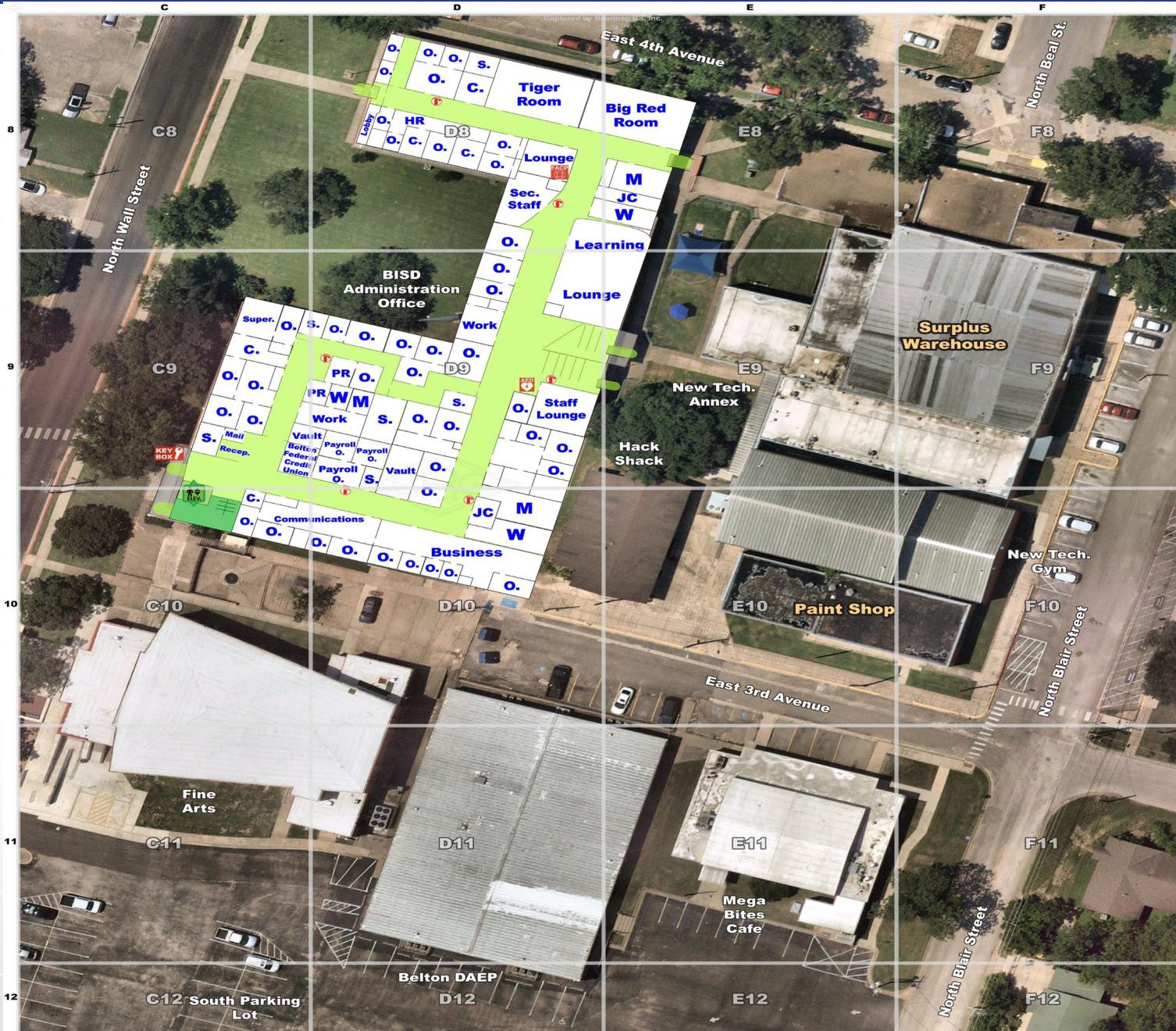
Every CRG is made with a grid overlay to allow for rapid communication and identification using the subsequent grid squares. The horizontal rows are numbered, and the vertical columns are lettered: Using this alphanumeric combination, small areas with no notable features can be rapidly and clearly identified and communicated.

For example: “grid square F5.”



Grid squares used in conjunction with cardinal directions allow any point on a CRG to be communicated with just a few words. For example:

- “The northern half of grid square F5”
- “Southeast corner of grid square F5”
- “Dead center of F5”



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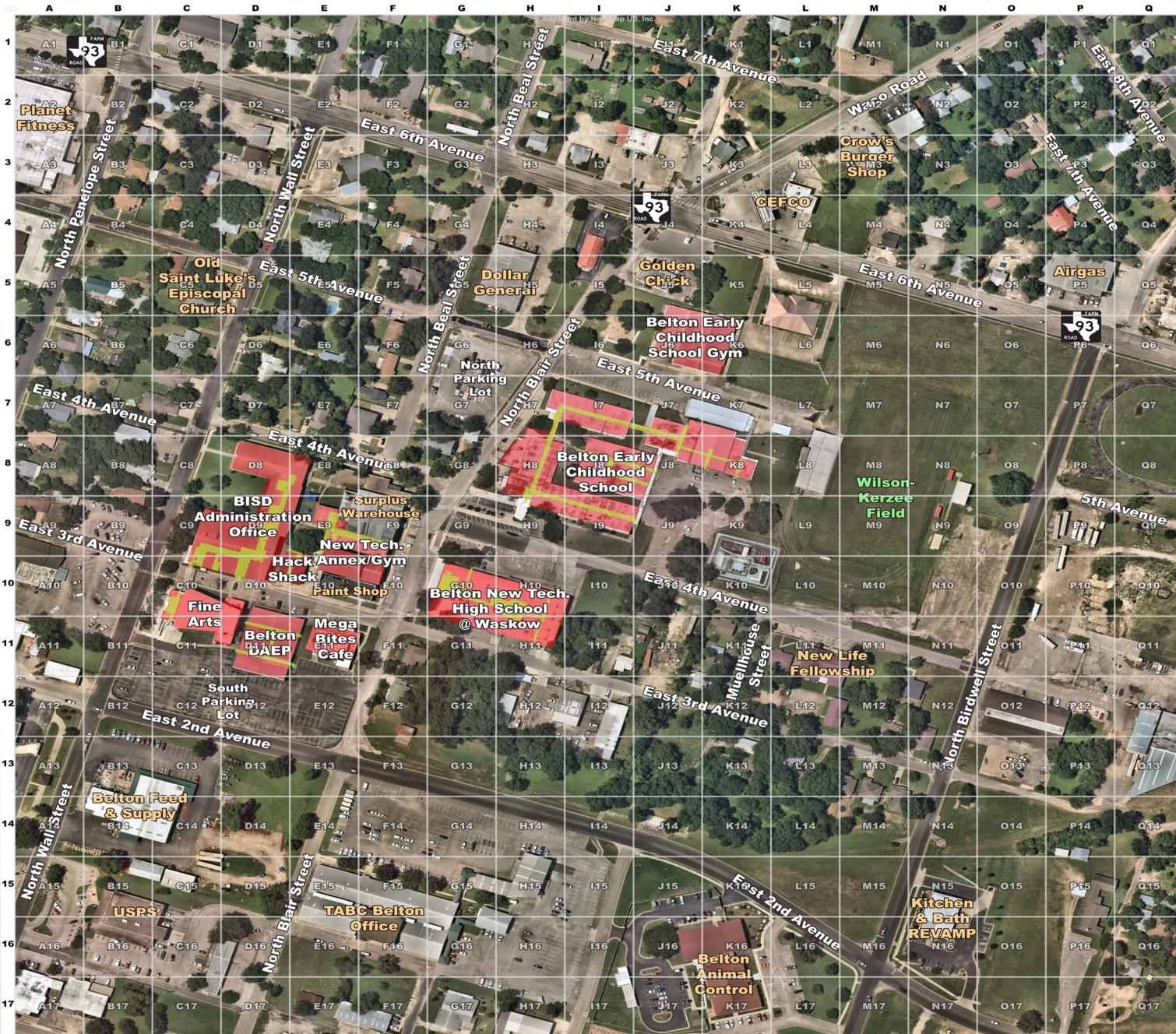


Version Control # V1.0

Second Floor - Micro
 Belton ISD Administration Office, Hack Shack,
 New Tech. Annex & Gym, Fine Arts, DAEP, & Mega Bites Cafe
 400 North Wall St, Belton, TX 76513



Commissioned by Belton Independent School District



MAR 2021 | 31 05847 - 97 489023 USNG: 48P VY 47724 37111 USA Texas | Belton Co. | City of Belton



North UP
Version Control #
40
YARD GRID
V1.0

MACRO
Belton New Tech. Campus, Administration Office,
DAEP, & Early Childhood School
320 North Blair St, Belton, TX 78513



Commissioned by Belton Independent School District

Comprehensive Long-Range
Maintenance Schedule
Belton ISD Facilities Committee
August 11, 2021



Belton ISD Roof Maintenance Schedule

Year	Facility	Description	Indexed Cost
2022	Miller Heights Elementary	Partial Roof Replacement Section 2	\$125,611.50
2022	Leon Heights Elementary	Roof Replacement	\$326,056.50
2023	Belton High School	Roof Replacement Sections 3 and 4	\$225,174.47
2025	Tarver Elementary	Roof Replacement	\$855,086.75
2025	Southwest Elementary	Roof Replacement Sections 4, 7 and 8	\$155,956.20
2025	Lakewood Elementary	Roof Replacement	\$981,525.00
2027	Administration	Roof Replacement	\$354,884.60
2028	Southwest Elementary	Roof Replacement Sections 5 & 6	\$381,882.15
2028	Miller Heights Elementary	Partial Roof Replacement Section 1	\$361,312.50
2028	Miller Heights Elementary	Partial Roof Replacement	\$140,807.81
2030	Belton Early Childhood School	Roof Replacement	\$795,375.00
2030	Joe M. Pirtle Elementary	Roof Replacement	\$1,071,421.88
2030	Belton New Tech High School	Roof Replacement	\$407,432.81
2030	Southwest Elementary	Roof Replacement Sections 1, 2 & 3	\$351,984.38
2031	DAEP	Roof Replacement	\$311,150.00
2031	Belton High School	Roof Replacement Sections 1, 5 and 6	\$3,621,655.47
2031	Belton High School	Roof Replacement Sections 8 and 9	\$314,934.38
2031	South Belton Middle School	Roof Replacement	\$1,347,650.00
2031	North Belton Middle School	Roof Replacement	\$1,197,984.38
2031	Lake Belton Middle School	Roof Replacement Sections 2, 4, and 5	\$256,868.75
2035	Charter Oak Elementary	Roof Replacement	\$1,278,887.50
2035	Chisholm Trail Elementary	Roof Replacement	\$1,089,387.50
2035	Lake Belton Middle School	Roof Replacement Sections 1 and 3	\$1,674,604.69
2035	Belton Middle School	Roof Replacement	\$1,497,262.50
2040	High Point Elementary	Roof Replacement	\$1,083,025.00
2040	Lake Belton High School	Roof Replacement	\$3,883,362.50
2040	Sparta Elementary	Roof Replacement	\$800,198.44
Total			\$24,891,482.66

Belton ISD Mechanical Maintenance Schedule

Year	Facility	Description	Indexed Cost
2022	Belton New Tech High School	Replace six dx split system units installed from 1998 to 2004.	\$70,875.00
2022	Belton High School	Replace existing EMCS Controls on all Dx packaged units and split systems.	\$280,875.00
2022	Lake Belton Middle School	Replace 1999-2005 dx equipment throughout.	\$1,760,062.50
2022	Southwest Elementary	Replace split system dx units throughout. Replace supply and return ductwork and provide outside air	\$666,750.00
2022	Miller Heights Elementary	Replace dx equipment installed from 1999-2007.	\$964,031.25
2022	Leon Heights Elementary	Replace seven 2002-2003 dx split systems.	\$27,562.50
2023	Joe M. Pirtle Elementary	Replace the HVAC equipment throughout the main building. Includes split systems and HRU/OAUs.	\$1,094,625.00
2023	Belton High School	Remove Hydronic HVAC system and all components . Provide new Dx system . Provide new controls.	\$2,132,812.50
2024	Belton Early Childhood School	Replace split system dx units throughout.	\$626,062.50
2024	Belton High School	Replace 64 packaged and split system Dx HVAC units.	\$1,069,031.25
2024	Belton Middle School	Replace 2005-2010 dx equipment throughout.	\$811,125.00
2025	Belton High School	Replace Dx split system units throughout CTE building.	\$433,125.00
2025	Belton High School	Replace two Dx split system units serving JROTC building.	\$43,312.50
2025	Sparta Elementary	Replace 16 packaged units and mini split systems installed in 2007.	\$313,031.25
2025	Transportation	Replace 9 split system units from 1993 to 2002.	\$11,812.50
2025	DAEP	Replace 7 condensing units from 2004	\$101,718.75
2025	Lakewood Elementary	Replace EMCS controls throughout.	\$177,187.50
2026	Administration	Replace 15 split systems from 2004 to 2008.	\$554,531.25
2026	Administration	Replace 4 RTUs from 2008	\$31,500.00
2026	Tarver Elementary	Replace HVAC equipment throughout.	\$905,625.00
2027	BHS Swim Center	Replace 2 dehumidification units from 2007.	\$767,812.50
2027	BHS Swim Center	Replace 3 RTUs from 2007.	\$23,625.00
2028	District Facility Shops	Replace 2 split systems in poor condition.	\$28,125.00
2028	Maintenance Grounds Building	Replace the unit heaters throughout the facility.	\$20,312.50
2028	Support Services	Replace all electrical distribution equipment	\$164,062.50
2028	Wilson Kerzee Field House	Replace 4 HVAC units (3 heaters and 1 window unit)	\$37,500.00
2028	Belton New Tech High School	Replace 21 dx packaged units and split systems installed 2010-2011.	\$342,187.50
2029	Support Services	Replace 8 split system units from 2000-2013	\$314,843.75
2029	Belton High School	Replace three Dx split system units serving AG building.	\$103,125.00
2029	Belton High School	Replace two Dx split system units serving JROTC building.	\$79,687.50
2029	Leon Heights Elementary	Replace eight 2007-2012 dx packaged and split systems.	\$37,500.00
2030	Southwest Elementary	Replace eight packaged units installed in 2012.	\$173,437.50
2031	South Belton Middle School	Replace HVAC equipment throughout.	\$1,799,437.50
2031	Belton Early Childhood School	Replace packaged and split system dx units installed from 2010-2015.	\$196,875.00
2031	Sparta Elementary	Replace 35 packaged units installed from 2012 to 2014.	\$1,078,125.00
2034	Chisholm Trail Elementary	Replace HVAC equipment throughout.	\$1,087,500.00
2034	High Point Elementary	Replace HVAC equipment throughout.	\$1,078,125.00
2034	North Belton Middle School	Replace HVAC equipment throughout.	\$2,076,562.50
		Total	\$21,484,500.00

Next Steps Comprehensive Long-Range Maintenance Schedule

- Strategic Discussion BISD Lighting Philosophy
- Strategic Discussion BISD Plumbing Philosophy
- Maintain Routine Maintenance Schedules to Maximize Life of Equipment
- Responsible Funding Options to Maximize Resources



2019 Capital Projects List Update
Belton ISD Facilities Committee / August 11, 2021

Additional Work Completed Not On Original Capital Projects List since February 2021			
PO Issued	Facility	Project	Cost
2/4/2021	BISD	Water refill Stations	49,112.12
2/4/2021	DAEP	Washer / Dryer Addition	16, 858
2/11/2021	Grounds	Replace Fencing. / Add Storage	21,437
3/4/2021	LBMS	Replace / Add Projectors (Aux Space)	33,777.71
3/26/2021	BHS	Replace Retractable Bleachers Motors and Tracking	33,797
3/31/2021	DAEP	Replace Heat Pump	23,883
4/16/2021	BECS / DAEP / Admin / New Tech	Security Lights	27,555
5/7/2021	New Tech	Hack Shack Roof	4,510
5/19/2021	Becs	Furnitures Replacement	73183.99
6/9/2021	BHS	New Foyer Furniture	2,499.39
6/24/2021	District Wide	Replace Johnson Control Server (HVAC)	41,689.10
7/1/2021	BMS	Replace Sound System Cafeteria/Library	31,873.18
7/22/2021	Natatorium	Pool Boiler Replacement	47,200
7/29/2021	LBMS	Projector Replacement (Classrooms)	80,959.80
8/3/2021	LBMS	Floor Partial Replacement, Painting, and Refinishing	30,700.00
9/20-4/21	HPM	Facilities Assessment	394,438.00
		Total	896,615.29

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2019 Capital Projects List Summary		
	Original Budget	3,489,459.00
	2019-2020 Expenses	1,840,224.46
	2020-2021 Expenses	1,169,870.09
	Currently Encumbered	287,610.67
	Remaining Capital Project Funds	191,735.78



Bond 2017 - \$149,700,000 Authorization		
Amount Available for 2017 Bond		\$ 155,500,000
Bond Proceeds	\$ 151,100,000	
Interest Revenue	\$ 4,400,000	
Other Revenue	\$ 30,000	
Estimated Bond Program Costs		\$ 148,300,000
Administrative and Issuance Costs	\$ 1,700,000	
Lakewood Elementary Gymnasium	\$ 2,600,000	
Pittenger Fine Arts Center	\$ 2,200,000	
Charter Oak Elementary	\$ 20,300,000	
Lake Belton High*	\$ 121,500,000	
Projected Remaining Funds		\$ 7,200,000
Committed Projects		\$ 3,200,000
Playground Renovations	\$ 1,900,000	
Swim Center	\$ 200,000	
Land Purchase	\$ 100,000	
Portables*	\$ 1,010,000	
Other Previously Discussed Projects		TBD
Elementary Design Process		
Tennis Complex Upgrades		
Other		
Uncommitted Remaining Funds		\$ 4,000,000

*Projected Costs

The Bond 2017 Authorization was approved by voters in May 2017. Bonds were issued to investors in two separate packages - August 2017: \$130 million; May 2019: \$19.7 million.

Amounts reflect actual activity unless otherwise noted. Projected costs are based on available estimates.

Potential Bond Exploration Process

- Discuss and gather input on potential process for future bond exploration
- Stakeholder input and participation
- Use of facilities assessment information, demographic data & community input
- Long-range planning implications (facilities, resources, infrastructure, & growth)
- Possible timeline: May 2022 and beyond

Potential Bond Exploration Process

August 11, 2021
Facilities Committee Meeting



21

PURPOSE

Gather input from the Facilities Committee on a potential bond exploration process.

Why consider a bond exploration process?



19
Schools

Accelerated
Growth

198.6
Square Miles

- 10 elementary
- 1 early childhood center
- 4 middle schools
- 2 high schools
- 1 high school of choice
- 1 DAEP

2019 - 20 = 2.6%

2020 - 21 = 3.0%

2021 - 22 = 7.0%

- Includes all or part of 4 municipalities:
 - Belton
 - Parts of Temple
 - Morgan's Point Resort
 - Unincorporated portions of Bell County

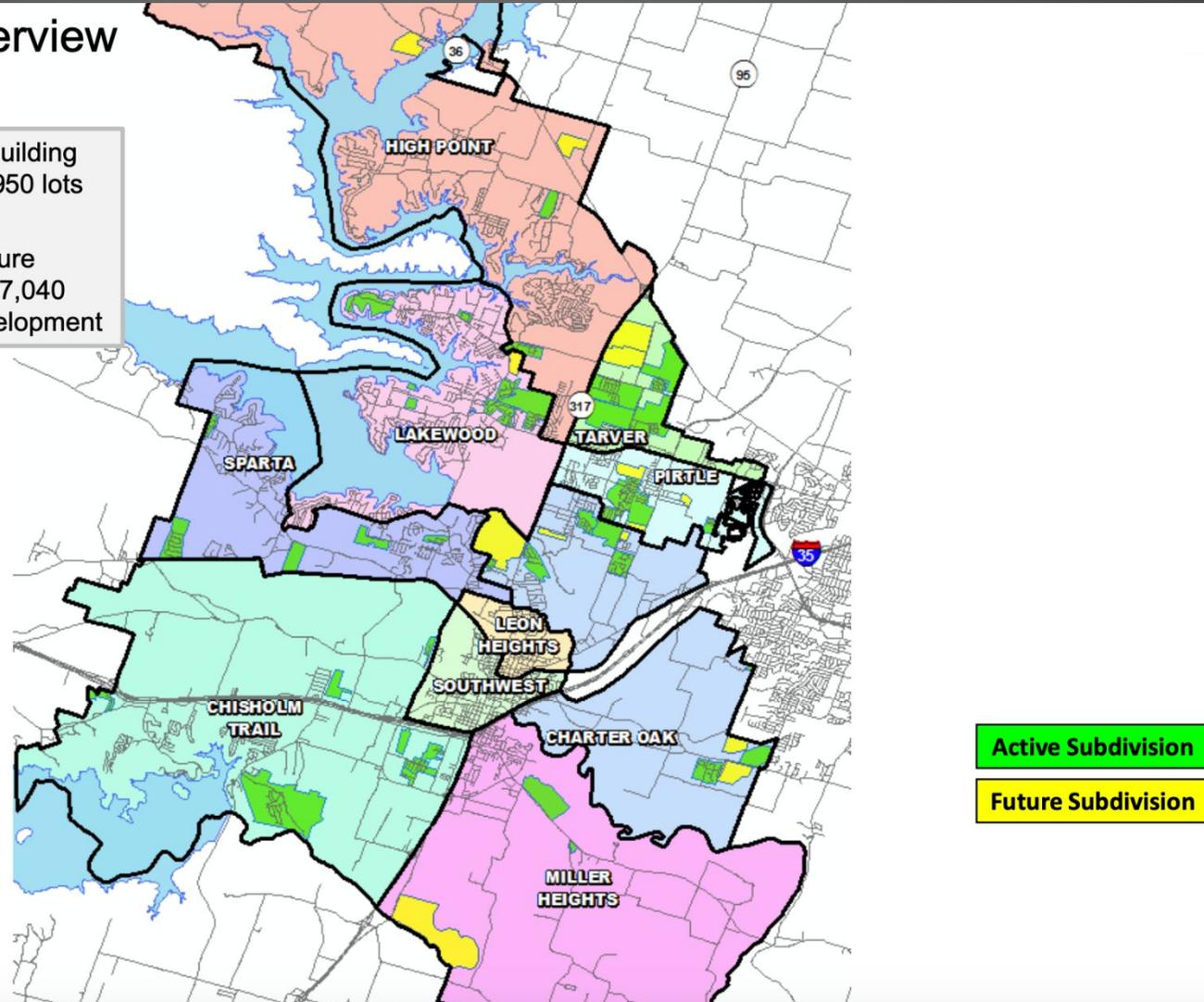


Why consider a bond exploration process?



District Housing Overview

- The district has 40 actively building subdivisions with approx. 1,950 lots available to build on
- Within BISD there are 16 future subdivisions with more than 7,040 lots in various stages of development

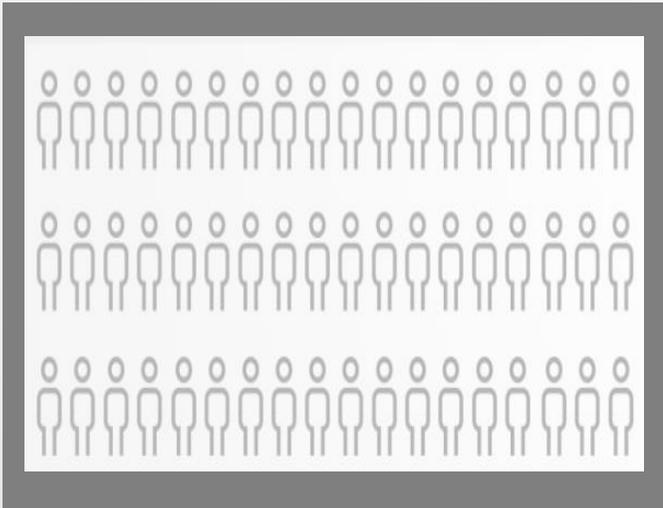


Why consider a bond exploration process?



Growth since 2017 bond

2410
students



1/3 Elementaries over capacity
within **3** years

25

Ten Year Forecast by Elementary Campus

Campus	Capacity	ENROLLMENT PROJECTIONS										
		Fall 2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31
BELTON EARLY CHILDHOOD	628	366	482	523	539	561	573	589	604	613	627	633
CHARTER OAK ELEMENTARY	800	475	525	594	646	710	759	785	808	827	838	845
CHISHOLM TRAIL ELEMENTARY	792	818	905	982	1,031	1,109	1,168	1,218	1,234	1,241	1,272	1,297
HIGH POINT ELEMENTARY	792	597	594	593	586	604	626	631	635	639	647	658
JOE PIRTLE ELEMENTARY	792	606	635	657	687	709	742	780	820	848	878	902
LAKEWOOD ELEMENTARY	792	658	684	707	729	741	764	794	807	824	853	880
LEON HEIGHTS ELEMENTARY	265	245	250	249	259	260	258	260	259	268	275	277
MILLER HEIGHTS ELEMENTARY	450	306	318	329	342	354	360	376	391	409	430	448
SOUTHWEST ELEMENTARY	440	385	387	373	373	373	372	376	378	377	382	380
SPARTA ELEMENTARY	685	638	657	677	704	746	771	792	819	824	835	836
TARVER ELEMENTARY	792	666	766	864	982	1,122	1,252	1,335	1,388	1,413	1,424	1,427
ELEMENTARY TOTALS	7,228	5,724	6,164	6,493	6,813	7,209	7,555	7,833	8,030	8,159	8,324	8,440
Elementary Absolute Change		15	440	329	320	396	346	278	196	129	165	116
Elementary Percent Change		0.26%	7.69%	5.34%	4.93%	5.81%	4.80%	3.68%	2.51%	1.61%	2.02%	1.40%

Yellow box = enrollment exceeds campus capacity

Why consider a bond exploration process?

Facilities Condition Index

% calculation of renovation vs replacement (of like building)



Cost to Fix

vs.



Cost to Build

Why consider a bond exploration process?

Educational Adequacy Score



Scores of **10+** = **Satisfactory**

Scores of **5-10** = **Average**

Scores **below 5** = **May need attention**

What is our suggested bond exploration process?



What are our roles?

Bond Exploration Committee	Administrative Support	Superintendent	Board of Trustees
<p><i>Approx. 50 members representing BISD communities. Nominations & volunteers.</i></p> <ul style="list-style-type: none"> Review demographic information, growth trends, facilities assessment data, and school/district needs. Use multiple perspectives in identifying prioritized projects. Share prioritized projects with the Superintendent. 	<ul style="list-style-type: none"> Facilitate the Bond Exploration Committee meetings. Provide demographic, facilities assessment, campus/district data, and additional information to support Bond Exploration Committee questions. Provide financial information to inform thoughtful development of a potential bond proposal(s). 	<ul style="list-style-type: none"> Collaborate with the administrative team and Bond Exploration Committee Co-Chairs to further refine the list of recommendations. Ensure items fit within threshold of highest need, impact on student learning experiences and feasibility. Collaborate with the administrative team and Bond Exploration Committee Co-Chairs to refine proposal(s) & develop presentation for Board. 	<ul style="list-style-type: none"> Receive updates on Bond Exploration Committee meeting agendas and progress. Observe Bond Exploration Committee meetings. Review & recommend final adjustments to proposal(s). Consider possible bond election.

What are our roles?

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What are our roles?

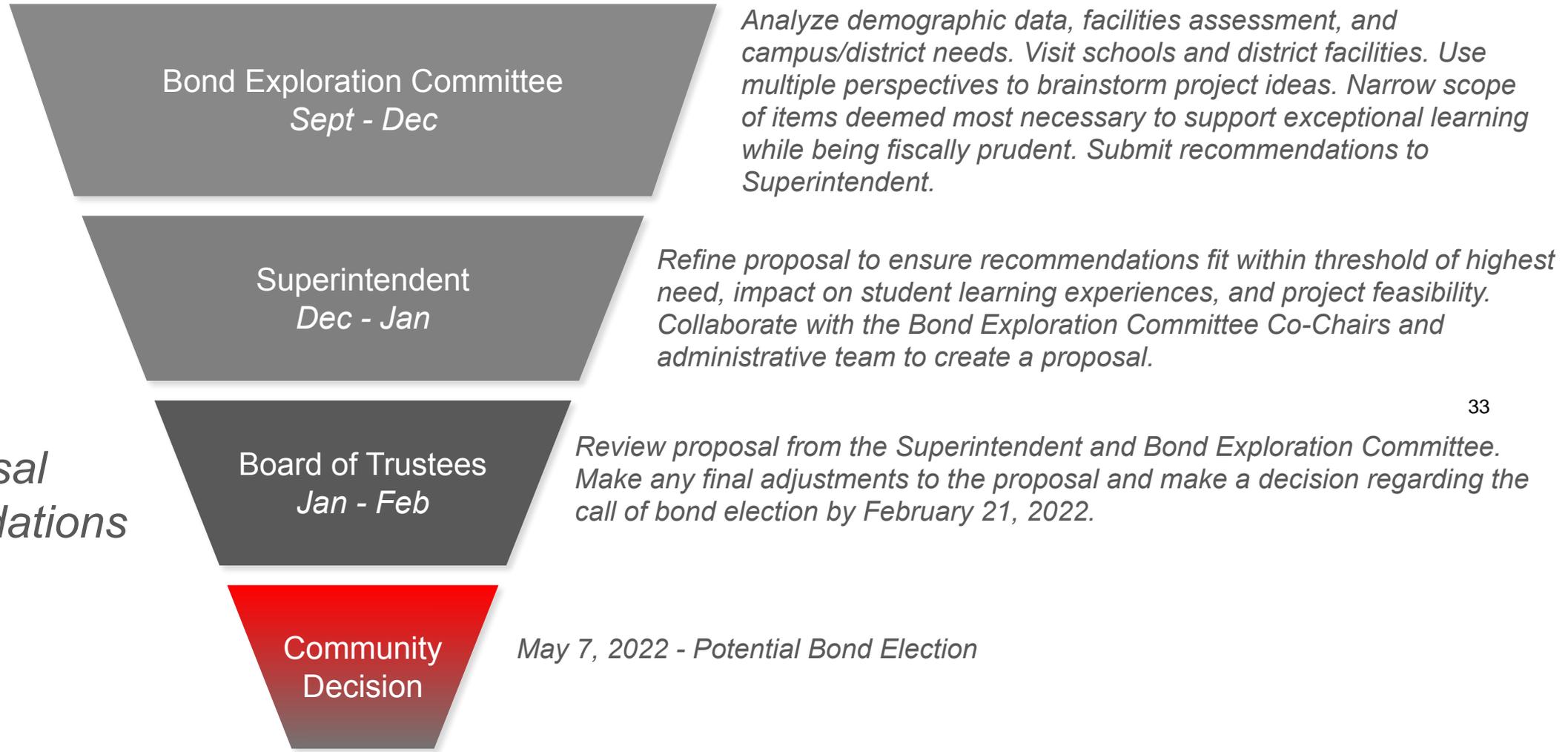
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How will we identify and narrow recommendations?

Narrowing Process for Bond Proposal Recommendations



Bond Exploration Timeline	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Elementary Design	Concept Development		Design Process								
Bond Exploration Process	Bond Exploration Planning Process		Bond Exploration Meetings								
Community Survey				Survey Window							
Recommendations Refined				Recommendations to Board for consideration						35	
Board Considers & Further Refines Recommendations						Discuss & Consider		Call for Election			
Bond Election (If Called)										May 7	

