

VOLUME 1

Master Plan



QUAKERTOWN COMMUNITY SCHOOL DISTRICT

**Facilities Assessment and
District-Wide Facilities Master Plan**

Prepared for:

**Quakertown Community School District
Board of School Directors
Quakertown, PA**

November 4, 2016



ARCHITECTURE
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PREFACE

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INTRODUCTION

INTRODUCTION

SCHRADERGROUP architecture, LLC (SGA) is pleased to present this District-Wide Facility Master Planning Study to the Quakertown Community School District (QCSD). In this document, the planning team describes; the built infrastructure in which the District houses its students, basic information about the District and the needs of the District as its future unfolds (both from a facility as well as an enrollment perspective). The team has gathered and assimilated this vast collection of information and then has developed a series of concepts outlining where the District might head with its facilities in the future.

The planning team is comprised of the following:

Schrader Group Architecture, LLC	Architecture and Educational Facility Planning
Schrader Group Architecture, LLC	Structural Engineering
D'Huy Engineering	Exterior Envelope Analysis
Barry Isett Associates	Mechanical, Plumbing/Fire Protection, Electrical and Civil Engineers

The team appreciates the opportunity to assist QCSD in the preparation of this document. We thank all of the members of the QCSD Board of Directors, Administration and Staff for their contributions. Further, we'd like to thank the members of the public who gave their time on multiple evenings throughout the fall of 2015 and spring of 2016 to contribute to this process.

Specific thanks to the School Board of Directors Facilities Committee (Stephen Ripper, Chairman, Paul Stepanoff and Robert Smith, Board Members) who appointed community members and district-wide staff members to serve on a Community Facilities Study Committee from which many of the options included herein were developed. Community members and district staff members who gave their time to this process included:

Beth Basile	Bekke Kowalski	Kevin Palmer	MaryJo Siuta
Vicki Callan	Sarah Litvinchuk	Diane Richino	Becky Smith
Sandi Frisch	Bonnie Martineau	John Roth	Becky Spor
Nicole Hallowell	Jeanne Niewoehner	Jon Sell	Kendra Waninger
Amy Harwick	Kim Pacella	Josh Sinsel	Stephanie Zajkowski
Rob Jackson			

And of course thanks to District Administration who provided countless hours of support in the gathering of information to support this study as well as support in multiple meetings. Thank you Dr. Harner, Nancianne Edwards, Kelly Harper and Robert Riegel.

The Pennsylvania Department of Education (PDE) requires certain items to be included in any District-wide Facility Study. One of those items is the district overview information which must contain descriptions of the district as well as the demographics of the school district. The information below was gathered from QCSD Administration. This section begins with a description of the makeup of the Quakertown community and District. It then provides a basic primer on the demographic analysis of the district-wide population. Finally, it ends with a summary of each of the further detailed sections provided in the body of this document to follow.

QUAKERTOWN COMMUNITY

The Quakertown community enjoys all of the beauty and charm historic Bucks County has to offer. Directly along the Liberty Bell Trail, Quakertown blends the historic past-original Colonial homes, quaint inns, and farmers' market-with modern convenience and small town hospitality.

The School District comprises an environment of mostly rolling hills and farmland in its 72.3 square miles. The community is made up largely of single family homes, and developments, still it also is home to large industry, wholesale and service companies.

The community's lovely rural surroundings belie its convenient location. Situated in the Northwest corner of Bucks County, the community is at the crossroads of routes 309, 313, and 663. An airport for lightweight aircraft, easy access to the Pennsylvania Turnpike and scheduled bus service make travel to cultural and amusement centers easy: Allentown (15 miles), Bethlehem (15 miles), Philadelphia (45 miles), New York City (90 miles), and Atlantic City (115 miles).

The lifestyle amenities are numerous: the community hospital; a free public library; churches of many denominations; the YMCA with an indoor pool and sports center; municipal parks containing biking and running trails, outdoor pools, football, soccer, and baseball fields; tennis and basketball courts; and picnic facilities. The community practices boating and water sports on man-made lakes at neighboring Lake Towhee county park and Nockamixon state park.

The School District serves the growing communities of Quakertown, Richlandtown, Trumbauersville, Haycock, Milford, and Richland. While 36,000 residents reap the benefits of open spaces, they have the convenience of the Richland Mall, five shopping centers, five major supermarkets, department stores motels, movie theaters, fine restaurants and fast-food chain stores.

QUAKERTOWN COMMUNITY SCHOOL DISTRICT INFORMATION

District Profile

The Quakertown Community School District, located in Upper Bucks County, serves the townships of Haycock, Milford and Richland, and the boroughs of Quakertown, Richlandtown and Trumbauersville. It continues to grow, along with neighboring districts in Bucks County.

District-wide Goals

The 2016-2017 district-wide goals were approved by the Board of School Directors at the June 23, 2016 meeting and contain the results of the board discussion at the June 4th workshop. Six goals were established that will be embedded in Dr. Harner's evaluation instrument. These goals evolved out of the 2015-16 goals that were developed by key members of the administrative team, with the overall objective of college and career readiness upon graduation from QCHS. For each of the goals established there is a rationale and a series of tasks required to achieve that primary goal. Refer to the district website for further information on these.

- ACADEMIC PROGRAMS: Increase rigor and college/career readiness at the high school, middle school and elementary levels while continuing to effectively address the needs of our at-risk students.
- OPERATIONS AND FINANCE: Demonstrate fiscal responsibility through thoughtful and consistent oversight of budget development, implementation of appropriate systems, and effective program evaluation.
- CULTURE FOR TEACHING AND LEARNING: Develop and consistently reinforce a culture for learning at the classroom, building, district, and community level.
- HUMAN RESOURCES/ PLANNING: Support all academic objectives through effective use of staff, effective organizational structure, and support for performance management processes.
- DATA/ TECHNOLOGY: Ensure integrity of data collection and technology investments/ use are aligned with the district's fiscal objectives and academic needs
- SAFETY AND SECURITY: Be vigilant in ensuring the safety and security of all school buildings and the central office.

District Mission

The district's mission is to prepare all students with the knowledge, habits, and skills they need to graduate ready for college or career and for engaged citizenship, all at the best value to our community.

District Vision

The district's vision is to prepare its students to be lifelong learners, who are able to pursue academic and career excellence, exhibit personal responsibility, participate as citizens in our democracy, and contribute to society. The goal of the school board is to achieve excellence in education consistent with its mission statement, while exercising responsible stewardship of community resources.

District Shared Beliefs

We believe we are responsible for preparing all students for life after graduation.

We believe in providing a safe and student centered culture and environment in all of our schools.

We believe everyone must act with civility, responsibility, and integrity.

We believe in the responsible stewardship of community resources.

We believe education is a collaboration between students, parents and families, staff, school board, and community.

We believe in communicating effectively and transparently with all stakeholders.

We believe in using data, reflection, and evaluation to drive continuous improvement.

Enrollment Projections

The concepts developed in the following sections of this document utilize the projections described in this section as the basis from which the projected building capacities are compared. The planning provided using the various concepts described in other Sections of this document satisfies the anticipated growth outlined in this section however the future growth of this district is only accurate to the extent and quantity of information available from outside resources at any one time.

This section includes the Pennsylvania Department of Education (PDE) Enrollment Projections as required per the PDE District-Wide Facility Study instructions. It then includes enrollment projections developed by Robert Schoch, Consultant, an independent enrollment projection specialist hired by Quakertown Community School District (QCSD) in 2015.

The information that follows begins with the PDE Enrollment Projections for QCSD. The PDE model only anticipates live births using the cohort survival ratio data. It does not anticipate the growth factor attributed to this region through new families introduced to the community nor does it include new housing starts.

Robert Schoch was contracted by QCSD to develop an updated Enrollment Projection Document. This document focuses on average birth rates (similar to the PDE model), however it also utilizes updated community development information as provided by QCSD and as gathered from the municipalities.

For planning purposes, the District has elected to proceed using the Study developed by Robert Schoch (RS) which is appropriate given the district-specific dynamics recognized in that study that are not realized in the PDE Enrollment Projections.

The PDE projections anticipate an enrollment of 4,764 students in the 2021/2022 school year. Interestingly, those same projections actually show the student population to already have peaked in 2008/2009 at 5,442 students. The RS projections anticipate an enrollment of 4,785 using moderate projections for that same year. As far as projected enrollments, the greatest projection identifies 5,238 students for the current 2016/2017 school year. It should be noted that while the PDE and RS projections vary from each other, they both reflect a decrease in overall district enrollment.

Building Capacities

Building capacities can be determined using several methodologies. For the purposes of Pennsylvania Department of Education, districts must utilize the Plancon methodology in the preparation of submissions to the State. This means relatively little, however, when compared to a district's actual facility use patterns. Quakertown Community School District's (and most districts for that matter) use of space varies from the Plancon methodology. In order to determine actual building capacity, QCSD must look at the programmatic and functional need for their facility use as well as their Board recommended maximum classroom occupancies.

For QCSD the total capacity of the building is derived from the Board desired maximum class size, the scheduling systems utilized in the building, the specialized programs supported within and the community and social space goal determined to be most effective. The consultants toured each building with district administration as well as building administration to understand how the building is used and how spaces have been re-appropriated for educational use.

The primary focus of this portion of the Study is to understand what the capacities of the buildings supporting the various grade groupings are and to determine how those facilities may support (or not support) the projected enrollments. Section 2 of this document provides a complete analysis of the projected enrollments. Those are used in Section 3 to demonstrate the capacity capabilities of the QCSD current building stock.

Existing Capacities and Projected Enrollments – 2022

GRADE STRUCTURE	2021 PROJECTED ENROLLMENT	PROPOSED CAPACITY	EXCESS CAPACITY
Elementary Schools (K-5)	1737	2220	483
Middle School (6-8)	1201	1186	(15)
High School (9-12)	1653	2026	373
TOTAL	4591	5432	841

Total District-Wide Capacities vs. Future Enrollment Projections - Summary

From the information provided on the previous page the following conclusions can be reached:

1. The District will have an excess of 841 seats in its buildings in 2021 according to the current enrollment projections for 2020/2021.
2. The elementary buildings will have an excess capacity of 483 seats.
3. The middle schools will be deficient by 15 seats.
4. The high school buildings will have an excess of 373 seats.

District Options

The planning team worked with a district-structured Committee regularly between September 2015 and May 2016 to assimilate all of the information provided on prior pages, then to develop the options in this section and budgets in the next. The Committee was composed of District Administration, educators and members of the community. The group met weekly and bi-weekly (depending on activities) to deeply scrutinize the facility needs of the District and to develop a cohesive plan to accommodate the future needs of the students in the District. The team initiated that process using the Facilities Assessment information developed in Section 7 of this document. That information provided the support to develop the options and costs identified in Section 5 of this study.

As part of this process the team initially developed twelve options for handling the anticipated enrollment. These options were generated with the input of the Committee. Subsequent planning workshops generated further options eventually leading to a selection of a preferred option. This preferred option was further developed by the Committee and then presented to the District Board of Directors Facility Committee first and then at a public meeting. The preferred Option presented at those meetings was Option 15.

The Board of Directors Facility Committee met subsequently and after receiving feedback from the Committee meeting the District Administration met again. In those meetings an interim solution was sought given that financing the entire Option 15 would be challenging for the District. A resulting Option 20 – INTERIM was developed as is further discussed in this section.

Option 20 seeks to do the following:

- Construct a new 600 student elementary school on the West Pumping Station Road site with the infrastructure and core facilities to support a future middle school
- Construct additions and renovations at Neidig Elementary School to accommodate 600 students
- If necessary, construct additions and renovations at Richland Elementary School
- The 600 student schools are meant to absorb the current population of Tohickon Valley Elementary School and if necessary Quakertown Elementary School
- Sell Tohickon Valley Elementary School
- Decide what to do with Quakertown Elementary School. Options include reuse as an Academic Facility as described in Option 15 or conversion to an Administrative Facility. This Option will remain open to the Board of Directors as enrollment and community direction dictates.
- At some point in the future when the District has determined that it is appropriate to develop, a new middle school would be constructed at the West Pumping Station Road site. This facility will potentially share core facilities and site with the new elementary school and will likely replace Milford Middle School.

The overall costs for each of the options is developed in Section 5. In addition to the additional building area defined by this section, the Facilities Assessment information provided in Section 7 is used to calculate overall option costs.

For the Option 20 described above and shown in Section 4, the overall project costs will evolve as that portion of work is completed to house the given enrollment until such time as the district determines what direction to go with the middle school population at Milford Elementary School (as potentially described in the costs for Option 15).

Budget Estimates

This section provides a conceptual estimate for a number of the Options presented in Section 4. The Committee decided that while not all Options were worthy of further investigation, a number of them were and as a result, budget estimates were provided for each of those options. Estimates were provided for Options; 9, 12, 13, 14, 15, 16, 17, 18, 19, and 20.

The estimates should be taken as order-of-magnitude estimates at this very preliminary stage. No true design has been derived and evaluations of the buildings have been made from team walk-throughs only. Costs are based upon square foot and lump sum amounts per line item.

While escalation has fluctuated in recent years, we believe it has stabilized and so originally, while these studies were being completed we showed a 3% inflation factor annually (assuming 8%-10% total average for all projects combined). Note that as the District elects to proceed with a certain option it may be more prudent to include a 5% annual inflation rate since the market has become somewhat saturated with work. We may find that once a design is derived for each of these options that square footage costs are higher than anticipated. If that is the case the District should adjust accordingly as time goes on.

Section 7 provides a basic renovation cost for each of the buildings based upon merely repairing and updating systems as they are needed per the site evaluations. This section combines those costs with the costs for new construction that may be required for the various capacities and includes contingencies and soft costs related to each project cost.

A potential Master Plan implementation schedule and conceptual draw schedule are provided in this section for the use of financial planning. That schedule has costs assigned appropriate to the implementation of each of the portions of the various projects. It should be noted that the draw schedule does not include all projects anticipated in Option 20, rather the projects the District anticipates developing in the early phases.

Specific and detailed cost estimates for the various areas of work within each option are provided in the information that follows. The costs indicated on those worksheets are included in the summary of options included on page 5-2 and all other estimates provided in this section.

Building Assessments

The project team conducted building tours of all of the facilities in the District between August 10 and August 13, 2015. Each of the buildings was viewed from the perspective of what building upgrades would be required to continue use of that facility in its current state for the next twenty or more years. Those assessments were then quantified in this section and a cost assigned to each specific upgrade. Ultimately, the information in this section is meant to provide the reader with a snapshot of what code, systems and finish updates need to occur at the facility regardless of capacity requirements identified elsewhere in this overall Study.

The SGA team is pleased to have participated in this extensive process. We stand by to assist the District with any questions they may have about this document or with any clarifications that might be required as time goes on. We wish the Board of School Directors and the Administration the best with their future goals for the students of the District.

ENROLLMENT PROJECTIONS

INTRODUCTION

The concepts developed in the following sections of this document utilize the projections described in this section as the basis from which the projected building capacities are compared. The planning provided using the various concepts described in other Sections of this document satisfies the anticipated growth outlined in this section however the future growth of this district is only accurate to the extent and quantity of information available from outside resources at any one time.

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PDE ENROLLMENT PROJECTION METHODOLOGY

The Pennsylvania Department of Education (PDE) typically provided annual enrollment projections to assist School Districts and other entities to identify and proactively address issues related to anticipated enrollments. Projections are based on recent historic trends in births and trends in the progression of students from one grade to the next.

When using enrollment projections for planning purposes, it is important to be aware that the projection model uses only actual enrollments, births, and retention rates to formulate projections. Other factors which may exist in a particular school district, such as a significant change in new home building, may need to be considered in conjunction with the projections to most accurately estimate future enrollments. For more detailed information on the projection model used, including its limitations, view the “Enrollment Projections Model” document on line at the website identified below.

Excerpted from the Pennsylvania Department of Education website at:

http://www.education.state.pa.us/portal/server.pt/community/enrollment_projections/18805

It should be noted that the PDE enrollment projections have been updated less frequently in the last several years. As a result, the most recent enrollment projections available were conducted in July 2012. The enrollment projections included on the following page are the 2011-2012 enrollment projections which are the last projections available through PDE.

PDE ENROLLMENT PROJECTIONS – July 2012

Revised: 7/2012 (2011 Enrollments)

Enrollment Projections
Prepared by the Pennsylvania Department of Education
(717) 787-2644

Quakertown Community SD														1-22-09-840-3	
YEAR	K	1	2	3	4	5	6	7	8	9	10	11	12	Total	
2007-2008	372	409	412	438	396	403	402	459	409	438	401	449	394	5382	
2008-2009	414	435	408	420	441	397	398	399	450	418	434	391	437	5442	
2009-2010	391	446	437	395	402	441	404	400	394	468	406	408	379	5371	
2010-2011	376	426	428	430	389	404	451	397	416	389	450	388	388	5332	
2011-2012	371	418	410	420	430	387	402	449	389	402	381	433	358	5250	
P R O J E C T I O N S															
2012-2013	399	433	410	405	415	430	389	400	441	391	392	365	400	5270	
2013-2014	385	443	425	405	400	415	432	387	393	443	382	376	337	5223	
2014-2015	330	427	435	420	400	400	417	429	380	395	432	366	347	5178	
2015-2016	353	366	419	430	415	400	402	414	422	381	385	414	338	5139	
2016-2017	346	392	359	414	424	415	402	400	407	424	372	369	382	5106	
2017-2018	339	384	385	355	409	424	417	400	393	409	414	356	340	5025	
2018-2019	332	377	377	380	350	409	426	414	393	395	399	397	328	4977	
2019-2020	325	369	370	373	375	350	411	423	407	395	385	382	366	4931	
2020-2021	319	361	362	366	368	375	352	409	416	409	385	369	352	4843	
2021-2022	313	355	354	358	361	368	377	350	402	418	399	369	340	4764	

Various Grade Groupings of the Enrollment Projections

YEAR	K-4	K-5	K-6	K-7	K-8	K-9	K-12	5-8	6-8	7-8	6-9	7-9	7-12	8-12	9-12	10-12
2011-2012	2049	2436	2838	3287	3676	4078	5250	1627	1240	838	1642	1240	2412	1963	1574	1172
2016-2017	1935	2350	2752	3152	3559	3983	5106	1624	1209	807	1633	1231	2354	1954	1547	1123
2021-2022	1741	2109	2486	2836	3238	3656	4764	1497	1129	752	1547	1170	2278	1928	1526	1108
2011-2012 to 2021-2022																
Change	-308	-327	-352	-451	-438	-422	-486	-130	-111	-86	-95	-70	-134	-35	-48	-64
Percent	-15.0	-13.4	-12.4	-13.7	-11.9	-10.3	-9.3	-8.0	-9.0	-10.3	-5.8	-5.6	-5.6	-1.8	-3.0	-5.5

ROBERT SCHOCH ENROLLMENT PROJECTIONS

The balance of this section shows the enrollment projections provided by Robert Schoch. There is no written description of how those projections were developed however as previously noted, it includes a progression of live birth cohort as well as an understanding of potential development within the community.

Assumptions and Methodology

Typical projections include four major factors that drive district-wide student enrollment. These include:

1. Recent kindergarten enrollment trends, modified by live birth data,
2. Changes in the grade level cohorts of students served as the cohort moves across the years,
3. Changes in out-of-district enrollment, and
4. Changes in the number of dwelling units within the district.

It should be noted that much of this information was developed by Mr. Schoch using GIS addressing to follow the trends.

District-wide projections are disaggregated to school projections based on the historical patterns of:

1. School draw rates, and
2. School-to-school transfers.

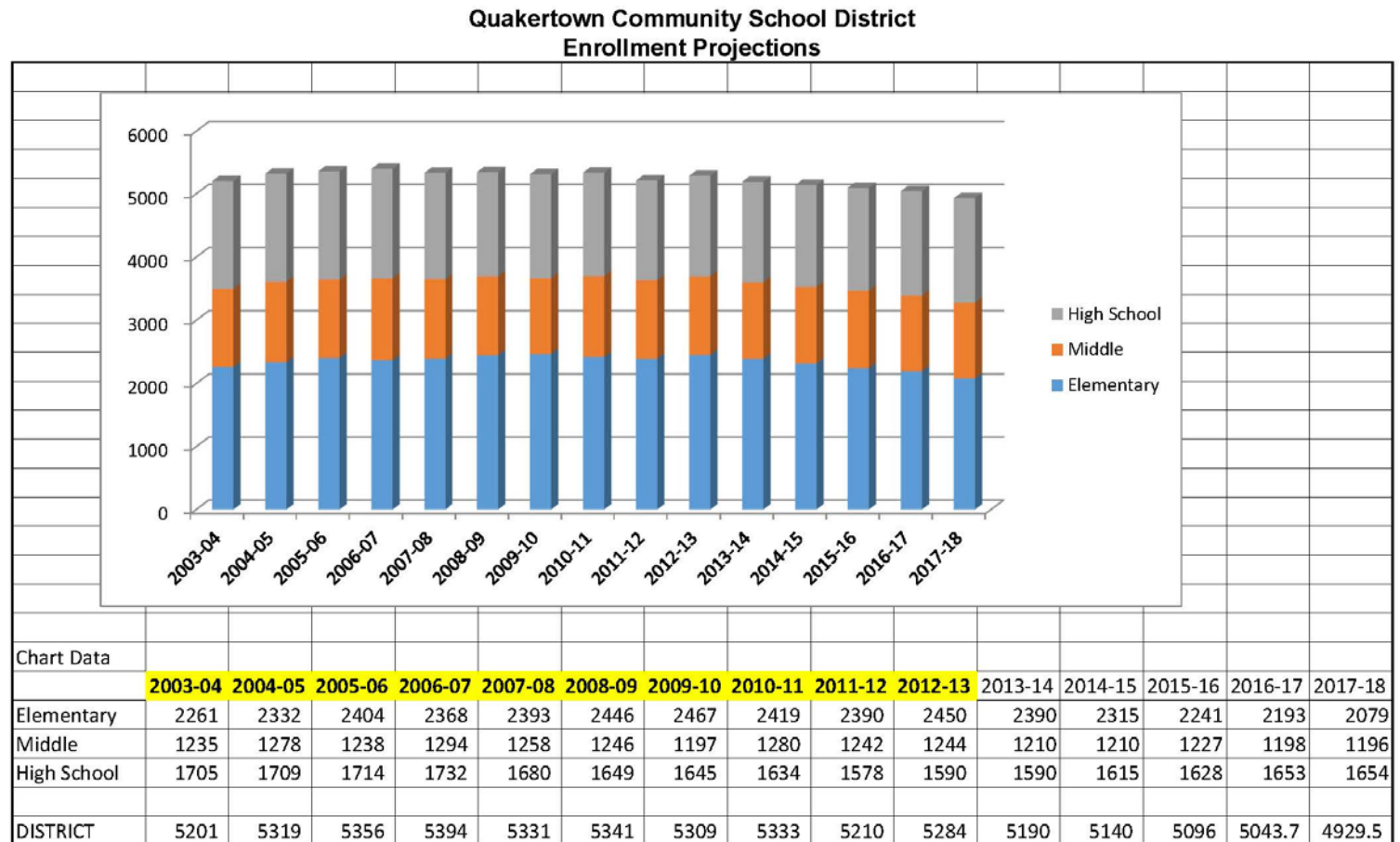
Mr. Schoch's Enrollment Projections are provided on the following page.

ROBERT SCHOCH ENROLLMENT PROJECTIONS – December 30, 2015

Quakertown Community School District Enrollment Projections

Grades 1 - 12 Enrollments Based on Grade Progression Ratios (Most Recent Year)																
Kindergarten Enrollments Based on Actual Live Birth Data for Past 5 Years																
(2014 Live Birth Data is Preliminary)																
	Progression	Actual										Projected				
Grades	Ratios	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
K		365	371	400	388	373	363	374	349	305	269	271	236	231	238	238
1	1.17	411	409	425	438	424	409	405	420	396	358	316	318	278	271	280
2	1.01	437	401	400	430	423	405	407	410	413	399	361	318	320	280	273
3	1.04	385	432	404	390	419	409	415	400	411	428	413	374	330	332	290
4	1.00	393	390	431	391	387	422	414	406	382	410	427	412	373	329	331
5	0.99	377	390	386	430	393	382	435	405	408	377	405	421	407	368	325
Sub-total K-5		2368	2393	2446	2467	2419	2390	2450	2390	2315	2241	2193	2079	1939	1818	1737
6	1.01	456	398	402	391	459	401	397	422	413	413	382	410	426	412	373
7	0.97	409	454	400	407	403	452	399	390	400	402	402	372	399	415	401
8	1.03	429	406	444	399	418	389	448	398	397	412	414	414	383	411	427
Sub-total 6-8		1294	1258	1246	1197	1280	1242	1244	1210	1210	1227	1198	1196	1208	1238	1201
9	1.03	423	441	415	470	406	407	394	438	413	410	425	428	428	396	424
10	1.00	458	402	427	403	452	380	398	393	428	413	410	425	428	428	396
11	0.97	418	449	379	399	393	432	383	395	388	416	401	399	413	416	416
12	1.00	433	388	428	373	383	359	415	364	386	389	417	402	400	414	417
Sub-total 9-12		1732	1680	1649	1645	1634	1578	1590	1590	1615	1628	1653	1654	1669	1654	1653
Special Ed.	1.00	111	105	112	104	117	142	157	139	175	194	194	194	194	194	194
Total K-12		5505	5436	5453	5413	5450	5352	5441	5329	5315	5290	5238	5123	5010	4904	4785
	Increase	45	-69	17	-40	37	(98)	89	(112)	(14)	(25)	(77)	(167)	(228)	(219)	(224)
Updated 12/30/15																

ROBERT SCHOCH ENROLLMENT PROJECTION SUMMARY



PROJECTIONS TO BE USED FOR PLANNING

Readers will note that the projections provided by Mr. Schoch also predict a decline in school enrollment. And while the decline is not as sharp as that provided through the PDE enrollment projections provided on prior pages it is considerable. QCSD has explained that while these two historically driven projections are declining, Administration believes that the decline will turn around. As such, they have asked SGA to anticipate a recovery of enrollment to 2015 levels.

Those 2015 enrollments are provided below.

Quakertown Community School District Enrollment Statistics 2015-2016							
10/9/2015							
Grade	NES	PES	QE	RES	TV	T'ville	
KF	13		12	15		13	
K am	17	18	17	18	19	22	
K am							
K pm	17	17	16	18	17	20	
K pm							
Total	47	35	45	51	36	55	
1	20	25	24	22	20	19	
1	20	22	23	22	19	19	
1	21	27		21	16	18	
1							
Total	0	61	74	47	65	55	56
2	26	21	18	25	23	25	
2	27	23	21	24	24	23	
2	25	24		23	22	25	
2							
Total	0	78	68	39	72	69	73
3	23	24	25	27	25	22	
3	24	24	24	26	26	22	
3	22	23		27	23	18	
3		23					
Total	0	69	94	49	80	74	62
4	23	28	23	24	26	22	
4	23	26	21	22	26	23	
4	23	28		24	26	22	
4							
Total	0	69	82	44	70	78	67
5	20	20	22	23	22	25	
5	21	20	23	21	22	27	
5	21	23		21	19	27	
5							
Total	0	62	63	45	65	63	79
Total K - 5	0	386	416	269	403	375	392

Average Class Size	Total 10/9/2015	Total 10/2/2014	
16.81	269	307	
19.89	358	398	51
23.47	399	415	1
25.18	428	412	13
24.12	410	385	-2
22.18	377	411	-8
22.19	2241	2328	-87 Increase Gr K-5

QUAKERTOWN COMMUNITY SCHOOL DISTRICT
Facilities Assessment and Master Plan

Category	NES	PES	QE	RES	TV	T'vill	MMS	SMS	SHS	Change in students who are only minimally included
Phy Sup(IU)									0	-6
Life Skills						15			26	-7
Life Skills (IU)							7		7	7
L Sup				31			28		59	9
L Sup (IU)									0	0
Autistic (IU)		17			14			29	73	34
E Sup		14							14	-20
PDD (IU)									0	0
MDS(IU) F.C.									0	0
MDS (IU)		10							15	2
Total by School	386	457	269	434	389	407	428	863	1657	19

	Milford	Strayer	MMS	SMS
6	26.00	25.70	156	257
7	23.40	28.50	117	285
8	24.00	29.20	120	292
Total 6-8			393	834

	SHS	SHS	SHS
9-Freshman C.	410	410	410
10	413	413	429
11	416	416	385
12	389	389	386
Total 9-12	1628	1628	1610

	Elem	Middle	SHS	Total	Total
	2342	1291	1657	5290	5321
				10/9/2015	10/2/2014

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BUILDING CAPACITIES

3

BUILDING CAPACITIES

INTRODUCTION

Building capacities can be determined using several methodologies. For the purposes of Pennsylvania Department of Education, districts must utilize the Plancon methodology in the preparation of submissions to the State. This means relatively little, however, when compared to a district’s actual facility use patterns. Quakertown Community School District’s (and most districts for that matter) use of space varies from the Plancon methodology. In order to determine actual building capacity, QCSD must look at the programmatic and functional need for their facility use as well as their Board recommended maximum classroom occupancies. QCSD’s methodologies are described further below:

- Program Driven Capacities: For QCSD the total capacity of the building is derived from the Administration’s desired maximum class size, the scheduling systems utilized in the building, the specialized programs supported within and the community and social space goal determined to be most effective.

We understand QCSD’s desired (District-wide Maximum) class sizes to be:

Grade Structure	Proposed Capacity
Kindergarten – Half Day	22 students per classroom
Kindergarten – Full Day	15 students per classroom
Grade 1 and 2	22 students per classroom
Grade 3	25 students per classroom
Grades 4 and 5	28 students per classroom
Grades 6 through 8	28 students per classroom
Grades 9 through 12	25 or PDE guidelines

PENNSYLVANIA DEPARTMENT OF EDUCATION (PDE) CAPACITIES

For District wide planning, we are required to provide the District with Plancon capacity tables per the District-Wide Facility Study instructions. These tables are the first set of documents provided in this section and are described below:

- PDE Capacities:**

The design team and District are required to provide this information to PDE in PDE format. It is important to note however that PDE driven standards may result in what looks like a different capacity at any one building than QCSD will see with their average maximum class size. Again, The District must understand that PDE capacities vary from the actual way in which a district utilizes its facilities.

The first documents provided in this section are the building capacities completed in the Plancon format per the last District-Wide Facility Study completed. The PDE calculations are developed showing current grade configurations (K-5). This does not affect the ultimate building capacities however the grade structures may be modified once Plancon documents are developed for the proposed option to be selected by the District.

PDE ELEMENTARY CAPACITIES

ELEMENTARY BUILDING CAPACITY										
District/CTC: Quakertown Community School District				Project Name: Quakertown Community High School				Grades: 10 - 12		
		SCHOOL: Haycock Elementary				SCHOOL: Neidig Elementary				
		PRESENT		PLANNED		PRESENT		PLANNED		
		#3	#4	#5	#6	#3	#4	#5	#6	
#1	#2	#3	#4	#5	#6	#3	#4	#5	#6	
	UNIT FTE CAP	NUMBER FTE CAP	TOTAL FTE CAP	NUMBER FTE CAP	TOTAL FTE CAP	NUMBER FTE CAP	TOTAL FTE CAP	NUMBER FTE CAP	TOTAL FTE CAP	
NAME OF SPACE										
HALF-TIME KINDRGRTN		50				1	50	1	50	
FULL-TIME KINDRGRTN		25								
REG CLSRM 660+ SQ FT		25	5	125	5	125	15	375	15	375
OTHER: _____										
BUILDING TOTAL		XX	XXXXXX	125	XXXXXX	125	XXXXXX	425	XXXXXX	425

PDE ELEMENTARY CAPACITIES (continued)

		SCHOOL: Pfaff Elementary				SCHOOL: Quakertown Elementary			
		PRESENT		PLANNED		PRESENT		PLANNED	
#1	#2	#3	#4	#5	#6	#3	#4	#5	#6
NAME OF SPACE	UNIT FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP
HALF-TIME KINDRGRTN	50	2	100	2	100	1	50	1	50
FULL-TIME KINDRGRTN	25								
REG CLSRM 660+ SQ FT	25	17	425	17	425	11	275	11	275
OTHER: _____									
BUILDING TOTAL	XX	XXXXXX	525	XXXXXX	525	XXXXXX	325	XXXXXX	325
		SCHOOL: Richland Elementary				SCHOOL: Tohickon Valley Elementary			
		PRESENT		PLANNED		PRESENT		PLANNED	
#1	#2	#3	#4	#5	#6	#3	#4	#5	#6
NAME OF SPACE	UNIT FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP
HALF-TIME KINDRGRTN	50	2	100	2	100	2	100	2	100
FULL-TIME KINDRGRTN	25								
REG CLSRM 660+ SQ FT	25	14	350	14	350	16	400	16	400
OTHER: _____									
BUILDING TOTAL	XX	XXXXXX	450	XXXXXX	450	XXXXXX	500	XXXXXX	500
		SCHOOL: Trumbauersville Elementary				SCHOOL: _____			
		PRESENT		PLANNED		PRESENT		PLANNED	
#1	#2	#3	#4	#5	#6	#3	#4	#5	#6
NAME OF SPACE	UNIT FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP
HALF-TIME KINDRGRTN	50	2	100	2	100				
FULL-TIME KINDRGRTN	25								
REG CLSRM 660+ SQ FT	25	16	400	16	400				
OTHER: _____									
BUILDING TOTAL	XX	XXXXXX	500	XXXXXX	500	XXXXXX		XXXXXX	

PDE SECONDARY CAPACITIES

MIDDLE/SECONDARY BUILDING CAPACITY									
District/CTC: Quakertown Community School District					Project Name: Quakertown Community High School			Grades: 10 - 12	
		SCHOOL : Milford Middle School				SCHOOL : Strayer Middle School			
		PRESENT		PLANNED		PRESENT		PLANNED	
#1	#2	#3	#4	#5	#6	#3	#4	#5	#6
NAME OF SPACE	UNIT FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP
REG CLSRM 660+ SQ FT	25	15	375	15	375	42	1,050	42	1,050
SCIENCE CLSRM 660+ SQ FT	25								
SCIENCE LAB 660+ SQ FT	20	4	80	4	80	8	160	8	160
PLANETARIUM W/CLSRM 660+ SQ FT	20								
ALTERNATIVE ED ROOM 660+ SQ FT	20								
BUSINESS CLSRM 660+ SQ FT	25								
BUSINESS LAB 660+ SQ FT	20								
COMPUTER LAB 660+ SQ FT	20	1	20	1	20	3	60	3	60
TV INSTRUCTIONAL STUDIO 660+ SQ FT	20								
ART CLASSROOM 660+ SQ FT	20	1	20	1	20	3	60	3	60
MUSIC CLASSROOM 660+ SQ FT	25					1	25	1	25
BAND ROOM 660+ SQ FT	25	1	25	1	25	1	25	1	25
ORCHESTRA ROOM 660+ SQ FT	25								
CHORAL ROOM 660+ SQ FT	25	1	25	1	25	1	25	1	25
FAMILY/CONSMR SCIENCE 660+ SQ FT	20	1	20	1	20	2	40	2	40
IA/SHOP 1800+ SQ FT	20	1	20	1	20				
TECH ED 1800+ SQ FT	20	1	20	1	20	3	60	3	60
VO AG SHOP W/CLSRM 660+ SQ FT	20								
DRIVER'S ED 660+ SQ FT	20								
GYM 6500-7500 SQ FT	66	1.0	66	1.0	66	1.0	66	1.0	66
AUX GYM 2500 SQ FT	33								
OTHER: _____									
OTHER: _____									
BUILDING TOTAL	XXX	XXXXXX	671	XXXXXX	671	XXXXX	1,571	XXXXXX	1,571
MS/SEC UTILIZATION (BLDG TOTAL X .9)	XXX	XXXXXX	604	XXXXXX	604	XXXXXX	1,414	XXXXXX	1,414

PDE SECONDARY CAPACITIES (continued)

		SCHOOL : Freshmen Center				SCHOOL : Quakertown High School			
		PRESENT		PLANNED		PRESENT		PLANNED	
#1	#2	#3	#4	#5	#6	#3	#4	#5	#6
NAME OF SPACE	UNIT FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP	NUMBER OF UNITS	TOTAL FTE CAP
REG CLSRM 660+ SQ FT	25	19	475	19	475	38	950	37	925
SCIENCE CLSRM 660+ SQ FT	25	2	50	2	50	4	100	8	200
SCIENCE LAB 660+ SQ FT	20					8	160	4	80
PLANETARIUM W/CLSRM 660+ SQ FT	20					1	20		
ALTERNATIVE ED ROOM 660+ SQ FT	20								
BUSINESS CLSRM 660+ SQ FT	25								
BUSINESS LAB 660+ SQ FT	20					3	60	3	60
COMPUTER LAB 660+ SQ FT	20	3	60	3	60	1	20	2	40
TV INSTRUCTIONAL STUDIO 660+ SQ FT	20					1	20	1	20
ART CLASSROOM 660+ SQ FT	20	1	20	1	20	2	40	2	40
MUSIC CLASSROOM 660+ SQ FT	25								
BAND ROOM 660+ SQ FT	25	1	25	1	25	1	25	1	25
ORCHESTRA ROOM 660+ SQ FT	25								
CHORAL ROOM 660+ SQ FT	25	1	25	1	25	1	25	1	25
FAMILY/CONSMR SCIENCE 660+ SQ FT	20	2	40	2	40	2	40	2	40
IA/SHOP 1800+ SQ FT	20					1	20	1	20
TECH ED 1800+ SQ FT	20								
VO AG SHOP W/CLSRM 660+ SQ FT	20								
DRIVER'S ED 660+ SQ FT	20								
GYM 6500-7500 SQ FT	66	1.0	66	1.0	66	1.0	66	1.0	66
AUX GYM 2500 SQ FT	33					1	33	1	33
OTHER: _____						3			
OTHER: _____									
BUILDING TOTAL	XXX	XXXXXX	761	XXXXXX	761	XXXXX	1,579	XXXXX	1,574
MS/SEC UTILIZATION (BLDG TOTAL X .9)	XXX	XXXXXX	685	XXXXXX	685	XXXXX	1,421	XXXXX	1,417

PDE DISTRICT-WIDE CAPACITY

SUMMARY OF OWNED BUILDINGS AND LAND										
District/CAC: Quakertown Community School District				Project Name: Quakertown Community High School				Grades: <u>10</u> - <u>12</u>		
	PRESENT				PLANNED					
#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11
NAME OF BUILDING OR SITE (INCLUDING DAO AND VACANT LAND) OWNED BY SCHOOL DISTRICT/CTC	CONSTRUCTION AND/OR RENOVATION DATES (BID OPENING DATES)	SITE SIZE (ACRES)	GRADE LEVELS	BUILDING FTE	CONVERSION / DISPOSITION AND <u>PLANNED</u> <u>COMPLETION DATE</u> BASED ON OPTION CHOSEN	SITE SIZE (ACRES)	GRADE LEVELS	PLANNED BUILDING FTE	FEE PROJECTED GRADE LEVEL ENROLLMENT 10 YEARS INTO THE FUTURE	FTE MINUS ENROLLMENT (#9 - #10)
Haycock Elementary	1955/70/83	12.1	k-5	125	maintain	12.1	k-5	125	XXXXXXXXXX	XXXXXXXXXX
Neidig Elementary	1959/86	12	k-5	425	maintain	12	k-5	425	XXXXXXXXXX	XXXXXXXXXX
Pfaff Elementary	2005	19.5	k-5	525	maintain	19.5	k-5	525	XXXXXXXXXX	XXXXXXXXXX
Quakertown Elementary	1928/67	5.65	k-5	325	maintain	5.65	k-5	325	XXXXXXXXXX	XXXXXXXXXX
Richland Elementary	1957/65	20.6	k-5	450	maintain	20.6	k-5	450	XXXXXXXXXX	XXXXXXXXXX
Tohickon Valley Elementary	1950/81/88/00	10.3	k-5	500	maintain	10.3	k-5	500	XXXXXXXXXX	XXXXXXXXXX
Trumbauersville Elementary	1998	17.2	k-5	500	maintain	17.2	k-5	500	XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
Subtotal	XXXXXXXXXX	XXX	XXXX	2,850	XXXXXXXXXXXXXXXXXXXXXXXXXX	XXX	XXXX	2,850	3,386	(536)
Milford Middle School	1974	42.2	6-8	604	maintain	42.2	6-8	604	XXXXXXXXXX	XXXXXXXXXX
Strayer Middle School	2004	64.9	6-8	1,414	maintain	64.9	6-8	1,414	XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
Subtotal	XXXXXXXXXX	XXX	XXXX	2,018	XXXXXXXXXXXXXXXXXXXXXXXXXX	XXX	XXXX	2,018	1,644	374
Freshmen Center (site includes District Facilities Building)	1965/98/05	37.3	9	685	maintain	37.3	9	685	XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
Subtotal	XXXXXXXXXX	XXX	XXXX	685	XXXXXXXXXXXXXXXXXXXXXXXXXX	XXX	XXXX	685	572	113
Quakertown High School	1954/65/69 87/01	17.6	10-12	1,421	Renovate 2010	17.6	10-12	1,417	XXXXXXXXXX	XXXXXXXXXX
DAO building									XXXXXXXXXX	XXXXXXXXXX
District Storage (Commerce Plaza) Bld.	1988	5			maintain	5			XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
									XXXXXXXXXX	XXXXXXXXXX
Subtotal	XXXXXXXXXX	XXX	XXXX	1,421	XXXXXXXXXXXXXXXXXXXXXXXXXX	XXX	XXXX	1,417	1,399	18
TOTAL	XXXXXXXXXX	XXX	XXXX	6,974	XXXXXXXXXXXXXXXXXXXXXXXXXX	XXX	XXXX	6,970	7,001	(31)

DISTRICT PLANNING METHODOLOGY

This portion of the document reflects an analysis utilizing QCSD specific capacity and building use guidelines. Several types of charts are provided in the District-designated Capacity Section. First, a series of summary charts are provided to describe overall district-wide use of buildings as well as proposed district-wide facility capacity. Specific age level methodologies are portrayed and are described further below. Following the summary charts, individual building charts are provided depicting how the existing use and then proposed capacity were derived for each building. These spreadsheets are direct results of the visits with and interviews of each QCSD Building Principal.

The individual building spreadsheets are developed through a slightly different process for primary and secondary schools. In general, the methodology is as follows for each age grouping:

ELEMENTARY SCHOOLS

Existing capacity is provided utilizing the District Recommended maximum classroom size (described on page 3-1). Each grade structure is calculated using the specific maximum capacities. Only those Special Education rooms that have students occupying them during the majority of the day (not used as pull-out) are assigned capacity.

Proposed capacity utilizes the same capacity derivation however it differs in that the planning team attempted to allocate relatively similar size spaces for the various support programs provided throughout the district. In that effort, the team did not, however, modify the quantity or type of Learning Support spaces that are currently allocated in the various buildings. The team recognizes that the Learning Support and other support programs are developed individually per school based on that specific building's needs.

Most importantly, each proposed capacity moves program out of the spaces designed for the facility to be utilized as other functions (ie: The Elementary Schools are currently using storage spaces or faculty spaces for educational space). It realigns the programs in the buildings in the manner in which they were originally planned.

MIDDLE SCHOOL

Existing capacity is provided utilizing the District Recommended Class size (described on page 3-1). Similar to the elementary school calculations, only those Special Education rooms that have students occupying them during the majority of the day (not used as pull-out) as well as full learning support classrooms are assigned capacity. Existing Capacity and Proposed Capacity are calculated in a similar methodology to the means by which the elementary capacity was developed.

The middle school utilizes a homeroom concept and therefore that calculation is used as the basis for the building capacity. In other words, the teams will start their day in one of the general academic spaces, one of the Special Education Spaces or one of the fully utilized Learning Support spaces. That is the quantity of rooms upon which the capacity is generated. Support programs and specials including; arts, musics, technology education, FACS, physical education and other similar programs are not used in the capacity calculation. So, those spaces can be essentially empty during homeroom.

Different from the elementary calculation, the middle school uses a 90% utilization. In other words, since rooms will be needed to circulate into, approximately 10% should remain free to provide for room changes. So, in the case of the middle school, the 90% CAPACITY recognizes that it is almost mathematically impossible to schedule the exact quantity of students to match the District-wide maximum classroom occupancy.

HIGH SCHOOL

The high school capacities are calculated in a slightly different way than even the elementary and middle schools. In the case of the high school, a general education average classroom size in QCSD is calculated using 25 students per PDE standards (other spaces receiving different capacities based on PDE). Classroom capacities, however, vary given size and subject matter. Many of the support programs have limitations placed on them by technology positions available or quantities of equipment available in the room. So, educational space capacities are different for many different programs.

As a result, almost every general education space and many support spaces are considered an occupiable space with capacity assigned in the building. Some of the spaces that do not receive capacity for QCSD include the auditorium and all physical education spaces. The high school has very high capacity per square foot compared to the middle school because the building utilization is developed using the entire facility virtually full at any one time.

In the case of the high school, the 90% utilization is also used in the program allowing for several of the educational and support space rooms to be open at any one time in order to allow for circulation between classes and to allow for teacher planning times. The 90% capacity is absolutely critical to making the high school function.

DISTRICT WIDE CAPACITY – CURRENT

QUAKERTOWN COMMUNITY SCHOOL DISTRICT CURRENT CAPACITIES AND CURRENT USES

Utilizing the classroom capacities described on the previous pages the existing and proposed building capacities are as follows:

Elementary Grade Existing Capacities and Proposed Current Capacities

BUILDING	2015/2016 ENROLLMENT	EXISTING USE CAPACITY	PROPOSED CAPACITY	EXCESS CAPACITY
Neidig Elementary	386	434	287	(99)
Pfaff Elementary	457	492	492	35
Quakertown Elementary	269	309	259	(10)
Richland Elementary	434	434	384	(50)
Tohickon Valley Elementary	389	443	368	(21)
Trumbauersville Elementary	407	458	430	23
TOTAL	2342	2570	2220	(122)

Secondary School Existing Capacities and Proposed Current Capacities

BUILDING	2015/2016 ENROLLMENT	EXISTING USE CAPACITY	PROPOSED CAPACITY	EXCESS CAPACITY
Middle Schools	1291	1211	1186	(105)
High Schools	1657	2026	2026	369
TOTAL	2948	3237	3212	264

Total District-Wide Existing Capacities by Grade Structure - Summary

Based on the information developed on the pages to follow and as summarized above, the information provided below represents the overall current state of capacity verses current enrollment in the QCSD.

	2015/2016 ENROLLMENT	EXISTING USE CAPACITY	PROPOSED DISTRICT CAPACITY	EXCESS DISTRICT CAPACITY
TOTAL	5290	5807	5432	142

The individual building capacity calculations begin on page 3-13 of this study.

From the information provided above the following conclusions can be reached:

1. The elementary schools are currently deficient by 122 seats.
2. The middle schools are deficient by 105 seats.
3. The high schools currently provide for 369 additional seats of capacity.
4. The district buildings as a whole provide approximately 142 additional seats of capacity currently.

DISTRICT WIDE CAPACITY – FUTURE

QUAKERTOWN COMMUNITY SCHOOL DISTRICT CURRENT CAPACITIES VS FUTURE ENROLLMENT PROJECTIONS

The primary focus of this portion of the Study is to understand what the capacities of the buildings supporting the various grade groupings are and to determine how those facilities may support (or not support) the projected enrollments. Section 2 of this document provides a complete analysis of the projected enrollments. Those are used in this section to demonstrate the capacity capabilities of the QCSD current building stock.

Having confirmed the capacities of each building using the current grade structures on the previous pages, the goal below is to develop an understanding of how the future enrollment projections provided in Section 2 of this document can be accommodated within the various grade level groupings of District buildings. For that analysis, we use the capacities shown on Page 3-9 for each of the major grade groupings and compare those to the Enrollment Projections developed by the District as shown in Section 2.

Existing Capacities and Projected Enrollments – 2022

GRADE STRUCTURE	2021 PROJECTED ENROLLMENT	PROPOSED CAPACITY	EXCESS CAPACITY
Elementary Schools (K-5)	1737	2220	483
Middle School (6-8)	1201	1186	(15)
High School (9-12)	1653	2026	373
TOTAL	4591	5432	841

Total District-Wide Capacities vs. Future Enrollment Projections - Summary

From the information provided on the previous page the following conclusions can be reached:

1. The District will have an excess of 841 seats in its buildings in 2021 according to the current enrollment projections for 2020/2021.
2. The elementary buildings will have an excess capacity of 483 seats.
3. The middle schools will be deficient by 15 seats.
4. The high school buildings will have an excess of 373 seats.

The existing facility capacity analysis previously described begins on the following page.

ELEMENTARY SCHOOL CAPACITIES

ELEMENTARY SCHOOL CAPACITY

BUILDING

CURRENT USE CAPACITY (QCSD Capacity)

Using QCSD Capacities

Room	Quantity	Cap.	Total
------	----------	------	-------

CAPACITY GENERATION

(Given Appropriate SGIs and Support Spaces)

Using QCSD Capacities

Room	Quantity	Cap.	Total
------	----------	------	-------

NEIDIG ELEMENTARY SCHOOL

2015 Enrollment = 386

GENERAL EDUCATION

Kindergarten (half day)	1	44	44
Kindergarten (full day)	1	15	15
Grades 1 and 2	6	22	132
Grade 3	3	25	75
Grade 4 and 5	6	28	168

SPECIALS

World Language	0	0	0 on cart
Art Room	0	0	0 on cart
Music Room	0	0	0 on cart
Instrumental Music	1	0	0
Computer Room	0	0	0

STUDENT SERVICES/SMALL GROUP INSTRUCTION

SGI (2 half size = 1 full size)	1.5	0	0 in closets
Support Programs	1	0	0 in closets

SPECIAL EDUCATION

Spec Ed - Autistic Classroom	0	12	0
Spec Ed - Life Skills Classroom	0	12	0
Special Education Classroom	0	0	0
OT/PT	0	0	0

SUPPORT/COMMUNITY SPACES

Cafeteria	0	0	0
Kitchen	1	0	0
All-Purpose Room	1	0	0
Stage	1	0	0
Media Center	1	0	0
Faculty Room	1	0	0
Main Office	1	0	0
Nurse's Suite	1	0	0
Guidance and Counselors	0	0	0

20.5

TOTAL USE 434 Students

1	44	44
1	15	15
3	22	66
2	25	50
4	28	112

1	0	0 Combined
1	0	0 Combined
0	0	0 Art/Mus
1	0	0
0	0	0

3	0	0 Back in
1	0	0 rooms

0	12	0
0	12	0
0	0	0
0	0	0

0	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
0	0	0

18

TOTAL CAPACITY 287 Students

ELEMENTARY SCHOOL CAPACITY (continued)

BUILDING

CURRENT USE CAPACITY (QCSD Capacity)

Using QCSD Capacities

Room	Quantity	Cap.	Total
------	----------	------	-------

CAPACITY GENERATION

(Given Appropriate SGIs and Support Spaces)

Using QCSD Capacities

Room	Quantity	Cap.	Total
------	----------	------	-------

PFAFF ELEMENTARY SCHOOL

2015 Enrollment = 457

GENERAL EDUCATION

Kindergarten (half day)	1	44	44
Kindergarten (full day)	0	15	0
Grades 1 and 2	6	22	132
Grade 3	4	25	100
Grade 4 and 5	6	28	168

SPECIALS

World Language	1	0	0
Art Room	1	0	0
Music Room	1	0	0
Instrumental Music	1	0	0
Computer Room	0	0	0

STUDENT SERVICES/SMALL GROUP INSTRUCTION

SGL (2 half size = 1 full size)	11.5	0	0
Support Programs	1	0	0

SPECIAL EDUCATION

Spec Ed - Autistic Classroom	2	12	24 IU
Spec Ed - Life Skills Classroom	2	12	24 IU
Special Education Classroom	1	0	0
OT/PT	0	0	0

SUPPORT/COMMUNITY SPACES

Cafeteria	1	0	0
Kitchen	1	0	0
All-Purpose Room	1	0	0
Stage	1	0	0
Media Center	1	0	0
Faculty Room	1	0	0
Main Office	1	0	0
Nurse's Suite	1	0	0
Guidance and Counselors	1	0	0

38.5

TOTAL USE 492 Students

1	44	44
0	15	0
6	22	132
4	25	100
6	28	168

1	0	0
1	0	0
1	0	0
1	0	0
0	0	0

11.5	0	0
1	0	0

2	12	24
2	12	24
1	0	0
0	0	0

1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0

38.5

TOTAL CAPACITY 492 Students

ELEMENTARY SCHOOL CAPACITY (continued)

BUILDING

CURRENT USE CAPACITY (QCSD Capacity)

Using QCSD Capacities

Room	Quantity	Cap.	Total
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CAPACITY GENERATION

(Given Appropriate SGIs and Support Spaces)

Using QCSD Capacities

Room	Quantity	Cap.	Total
------	----------	------	-------

QUAKERTOWN ELEMENTARY SCHOOL

2015 Enrollment = 269

GENERAL EDUCATION

Kindergarten (half day)	1	44	44
Kindergarten (full day)	1	15	15
Grades 1 and 2	4	22	88
Grade 3	2	25	50
Grade 4 and 5	4	28	112

1	44	44
1	15	15
3	22	66
2	25	50
3	28	84

SPECIALS

World Language	0.5	0	0 Shared Music/ Art/ WL
Art Room	0.5	0	0 Shared Music/ Art/ WL
Music Room	0.5	0	0 Shared Music/ Art/ WL
Instrumental Music	0.5	0	0 Stor Closet
Computer Room	0	0	0

0.5	0	0
0.5	0	0
0.5	0	0
0.5	0	0
0	0	0

STUDENT SERVICES/SMALL GROUP INSTRUCTION

SGL (2 half size = 1 full size)	0	0	0
Support Programs	3	0	0

0	0	0
3	0	0

SPECIAL EDUCATION

Spec Ed - Autistic Classroom	0	12	0
Spec Ed - Life Skills Classroom	0	12	0
Special Education Classroom	1	0	0 Bldg Stor
OT/PT	0.5	0	0 Stor Closet

0	12	0
0	12	0
1	0	0
0.5	0	0

SUPPORT/COMMUNITY SPACES

Cafeteria	1	0	0
Kitchen	1	0	0
All-Purpose Room	1	0	0
Stage	1	0	0
Media Center	1	0	0
Faculty Room	0	0	0
Main Office	1	0	0
Nurse's Suite	1	0	0
Guidance and Counselors	0.5	0	0

1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
0	0	0
1	0	0
1	0	0
0.5	0	0

18.5

TOTAL USE 309 Students

16.5

TOTAL CAPACITY 259 Students

ELEMENTARY SCHOOL CAPACITY (continued)

BUILDING

CURRENT USE CAPACITY (QCSD Capacity)

Using QCSD Capacities

Room	Quantity	Cap.	Total
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CAPACITY GENERATION

(Given Appropriate SGIs and Support Spaces)

Using QCSD Capacities

Room	Quantity	Cap.	Total
------	----------	------	-------

RICHLAND ELEMENTARY SCHOOL

2015 Enrollment =

434

GENERAL EDUCATION

Kindergarten (half day)	1	44	44
Kindergarten (full day)	1	15	15
Grades 1 and 2	6	22	132
Grade 3	3	25	75
Grade 4 and 5	6	28	168

SPECIALS

World Language	0	0	0 Music/ WL
Art Room	1	0	0 Art/WL
Music Room	1	0	0 Music/ WL
Instrumental Music	0.5	0	0
Computer Room	0	0	0

STUDENT SERVICES/SMALL GROUP INSTRUCTION

SGI (2 half size = 1 full size)	1	0	0 Stor Rooms
SGI (2 half size = 1 full size)	1.5	0	0
Support Programs	4	0	0

SPECIAL EDUCATION

Spec Ed - Autistic Classroom	0	12	0
Spec Ed - Life Skills Classroom	0	12	0
Special Education Classroom	0	0	0
OT/PT	0.5	0	0

SUPPORT/COMMUNITY SPACES

Cafeteria	0	0	0
Kitchen	1	0	0
All-Purpose Room	1	0	0
Stage	1	0	0
Media Center	1	0	0
Faculty Room	1.5	0	0
Main Office	1	0	0
Nurse's Suite	1	0	0
Guidance and Counselors	0	0	0

26.5

TOTAL USE 434 Students

1	44	44
1	15	15
5	22	110
3	25	75
5	28	140

0.5	0	0 Part time us
1	0	0
1	0	0
0.5	0	0
0	0	0

1	0	0
1.5	0	0
4	0	0

0	12	0
0	12	0
0	0	0
0.5	0	0

0	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1.5	0	0
1	0	0
1	0	0
0	0	0

25

TOTAL CAPACITY 384 Students

ELEMENTARY SCHOOL CAPACITY (continued)

BUILDING

CURRENT USE CAPACITY (QCSD Capacity)

Using QCSD Capacities

Room	Quantity	Cap.	Total
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CAPACITY GENERATION

(Given Appropriate SGIs and Support Spaces)

Using QCSD Capacities

Room	Quantity	Cap.	Total
------	----------	------	-------

TOHICKON VELLEY ELEMENTARY SCHOOL

2015 Enrollment = 389

GENERAL EDUCATION

Kindergarten (half day)	1	44	44
Kindergarten (full day)	0	15	0
Grades 1 and 2	6	22	132
Grade 3	3	25	75
Grade 4 and 5	6	28	168

1	44	44
0	15	0
5	22	110
2	25	50
5	28	140

SPECIALS

World Language	0	0	0 On cart
Art Room	0.5	0	0 Shared
Music Room	0.5	0	0 Shared
Instrumental Music	1	0	0 In Fac Room
Computer Room	0	0	0

1	0	0
0.5	0	0
0.5	0	0
1	0	0
0	0	0

STUDENT SERVICES/SMALL GROUP INSTRUCTION

SGL (2 half size = 1 full size)	0.5	0	0 In Nurse
Support Programs	2	0	0

1	0	0
2	0	0

SPECIAL EDUCATION

Spec Ed - Autistic Classroom	2	12	24
Spec Ed - Life Skills Classroom	0	12	0
Special Education Classroom	0	0	0
OT/PT	0	0	0

2	12	24
0	12	0
0	0	0
0	0	0

SUPPORT/COMMUNITY SPACES

Cafeteria	1	0	0 under sized
Kitchen	1	0	0
All-Purpose Room	0	0	0 Need gym
Stage	1	0	0
Media Center	1	0	0
Faculty Room	0.5	0	0
Main Office	1	0	0
Nurse's Suite	1	0	0
Guidance and Counselors	0.5	0	0 In closet

1	0	0
1	0	0
0	0	0
1	0	0
1	0	0
0.5	0	0
1	0	0
1	0	0
0.5	0	0

22.5

TOTAL USE 443 Students

21

TOTAL CAPACITY 368 Students

ELEMENTARY SCHOOL CAPACITY (continued)

BUILDING

CURRENT USE CAPACITY (QCSD Capacity)

Using QCSD Capacities

Room	Quantity	Cap.	Total
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CAPACITY GENERATION

(Given Appropriate SGIs and Support Spaces)

Using QCSD Capacities

Room	Quantity	Cap.	Total
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TRUMBAUERSVILLE ELEMENTARY SCHOOL

2015 Enrollment = 407

GENERAL EDUCATION

Kindergarten (half day)	1	44	44
Kindergarten (full day)	1	15	15
Grades 1 and 2	6	22	132
Grade 3	3	25	75
Grade 4 and 5	6	28	168

SPECIALS

World Language	0	0	0 WL on a cart
Art Room	1	0	0
Music Room	1	0	0
Instrumental Music	1	0	0
Computer Room	0	0	0

STUDENT SERVICES/SMALL GROUP INSTRUCTION

SGL (2 half size = 1 full size)	3.5	0	0
Support Programs	2	0	0

SPECIAL EDUCATION

Spec Ed - Autistic Classroom	0	12	0
Spec Ed - Life Skills Classroom	2	12	24
Special Education Classroom	0	0	0
OT/PT	0	0	0

SUPPORT/COMMUNITY SPACES

Cafeteria	1	0	0
Kitchen	1	0	0
All-Purpose Room	1	0	0
Stage	1	0	0
Media Center	1	0	0
Faculty Room	4	0	0
Main Office	1	0	0
Nurse's Suite	1	0	0
Guidance and Counselors	1	0	0

27.5

TOTAL USE 458 Students

1	44	44
1	15	15
6	22	132
3	25	75
5	28	140

1	0	0
1	0	0
1	0	0
1	0	0
0	0	0

3.5	0	0
2	0	0

0	12	0
2	12	24
0	0	0
0	0	0

1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
4	0	0
1	0	0
1	0	0
1	0	0

27.5

TOTAL CAPACITY 430 Students

ELEMENTARY SCHOOL CAPACITY (continued)

CURRENT USE CAPACITY (QCSD Capacity)	
TOTAL CAPACITY	2570 Students

CAPACITY GENERATION	
Using QCSD Capacities	
TOTAL CAPACITY	2220 Students

TOTAL ENROLLMENT (2015/2016)

2342

MIDDLE SCHOOL CAPACITIES

MIDDLE SCHOOL

BUILDING

CURRENT USE CAPABILITY			
Room Quantity		Cap.	Total

CAPACITY GENERATION (Given Appropriate SGIs and Support Spaces)		
Capacities		
Room Quantity	Cap.	Total

MILFORD MIDDLE SCHOOL

2015/16 Enrollment =

428

GENERAL EDUCATION (Reading, Lang Arts, Math, SS)

Regular Classroom - 6th Grade	3.5		28	98 Reading in SGI
Regular Classroom - 7th Grade	3.5		28	98
Regular Classroom - 8th Grade	3		28	84

SCIENCE LABORATORIES

Science Classrooms/Labs - 6th Grade	1.5		28	42
Science Classrooms/Labs - 7th Grade	1		28	28
Science Classrooms/Labs - 8th Grade	1		28	28

WORLD LANGUAGE

World Language Classroom	1		0	0 Scattered
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HEALTH

Health Classroom	0.5		28	14
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SPECIAL ED AND SUPPORT

Special Education Classroom	1		12	12
Special Ed (Smaller Capacity)	0		6	0
Spec Ed - Life Skills	1		6	6
Learning Support	4.5		0	0

DISTANCE LEARNING/COMPUTER ROOMS

Dist Learning/Computer Room	1		0	0
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OTHER INSTRUCTIONAL SPACES

Large Group Instruction	0		0	0
Small Group Instruction (incl hallways)	1		0	0
Other	0		0	0

TECHNOLOGY EDUCATION

Tech Ed Design	1		0	0
Tech Ed Lab	1		0	0

3	28	84 Doesn't fill out program
3	28	84 Doesn't fill out program
3	28	84 Doesn't fill out program

1	28	28
1	28	28
1	28	28

1	0	0
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1	0	0
---	---	---

1	12	12
0	6	0
1	6	6
5	0	0 Use full spaces

1	0	0
---	---	---

0	0	0
0	0	0 Missing SGIs
0	0	0

1	0	0
1	0	0

BUILDING

CURRENT USE CAPABILITY

Room Quantity		Cap.	Total
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CAPACITY GENERATION

(Given Appropriate SGIs and Support Spaces)

Capacities

Room Quantity	Cap.	Total
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MILFORD MIDDLE SCHOOL (continued)

THE ARTS

Art Classroom	1.1		0	0 Shared for 1 pd
Music Instruction	0.5		0	0 Shared w/choir
Band Room	1		0	0
Choir Room	0.5		0	0 Shared w/Instruct
Practice Areas	2		0	0

PHYSICAL EDUCATION/ ATHLETICS

Gymnasium	1		0	0
Auxiliary Gymnasium	0		0	0
Fitness Room	1		0	0
Natatorium	0		0	0
Locker Room	2		0	0

BUILDING SUPPORT

Auditorium	0		0	0
Stage	0		0	0
Cafeteria	1		0	0
Kitchen	1		0	0
Media Center	1		0	0
Other	0		0	0

0	0	0 Missing
1	0	0
1	0	0
0	0	0 Missing
2	0	0

1	0	0
0	0	0
1	0	0
0	0	0
2	0	0

0	0	0 Missing
0	0	0 Missing
1	0	0
1	0	0
1	0	0
0	0	0

BUILDING

CURRENT USE CAPABILITY			
Room Quantity		Cap.	Total

CAPACITY GENERATION (Given Appropriate SGIs and Support Spaces)		
Capacities		
Room Quantity	Cap.	Total

MILFORD MIDDLE SCHOOL (continued)

BUILDING ADMINISTRATION			
Building Main Office	1	0	0
Nurse	1	0	0
Guidance	1	0	0
I.P.C. Room	0	0	0
Faculty Room	1	0	0
-	0	0	0
25.5			
TOTAL CAPACITY		410 Students	
90% USE CAPACITY		369 Students	

1	0	0
1	0	0
1	0	0
0	0	0
1	0	0
0	0	0
24		1.5 spaces should not be used for instr
TOTAL CAPACITY		354 Students
90% USE CAPACITY		319 Students

BUILDING

CURRENT USE CAPABILITY

Room Quantity		Cap.	Total
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CAPACITY GENERATION

(Given Appropriate SGIs and Support Spaces)

Capacities

Room Quantity	Cap.	Total
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STRAYER MIDDLE SCHOOL

2015/16 Enrollment =

863

GENERAL EDUCATION (Reading, Lang Arts, Math, SS)

Regular Classroom - 6th Grade	8	28	224
Regular Classroom - 7th Grade	8	28	224
Regular Classroom - 8th Grade	7	28	196

SCIENCE LABORATORIES

Science Classrooms/Labs - 6th Grade	2	28	56
Science Classrooms/Labs - 7th Grade	2	28	56
Science Classrooms/Labs - 8th Grade	2	28	56

WORLD LANGUAGE

World Language Classroom	3	0	0
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HEALTH

Health Classroom	4	28	112
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SPECIAL ED AND SUPPORT

Special Education Classroom	0	12	0
Special Ed (Smaller Capacity)	0	6	0
Spec Ed - Life Skills	0	6	0
Spec Ed - Emotional Support	2	6	12
Learning Support	10	0	0
IU Spec Ed	4	0	0

DISTANCE LEARNING/COMPUTER ROOMS

Dist Learning/Computer Room	4	0	0
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OTHER INSTRUCTIONAL SPACES

Large Group Instruction	0	0	0
Small Group Instruction (incl hallways)	0	0	0
Other	0	0	0

TECHNOLOGY EDUCATION

Tech Ed Design	2	0	0
Tech Ed Lab	1	0	0

8	28	224
8	28	224
8	28	224

2	28	56
2	28	56
2	28	56

3	0	0
---	---	---

4	28	112
---	----	-----

0	12	0
0	6	0
0	6	0
2	6	12
10	0	0
4	0	0

4	0	0
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0	0	0
0	0	0
0	0	0

2	0	0
1	0	0

BUILDING	CURRENT USE CAPABILITY				CAPACITY GENERATION (Given Appropriate SGIs and Support Spaces)		
	Room Quantity		Cap.	Total	Room Quantity	Cap.	Total
STRAYER MIDDLE SCHOOL (continued)							
THE ARTS							
Art Classroom	3		0	0	3	0	0
Music Instruction	1		0	0	1	0	0
Band Room	1		0	0	1	0	0
Choir Room	1		0	0	1	0	0
Practice Areas	0		0	0	0	0	0
PHYSICAL EDUCATION/ ATHLETICS							
Gymnasium	1		0	0	1	0	0
Auxiliary Gymnasium	1		0	0	1	0	0
Fitness Room	0		0	0	0	0	0
Natatorium	0		0	0	0	0	0
Locker Room	2		0	0	2	0	0
BUILDING SUPPORT							
Auditorium	1		0	0	1	0	0
Stage	1		0	0	1	0	0
Cafeteria	1		0	0	1	0	0
Kitchen	1		0	0	1	0	0
Media Center	1		0	0	1	0	0
Other	0		0	0	0	0	0

BUILDING

CURRENT USE CAPABILITY			
Room Quantity		Cap.	Total

CAPACITY GENERATION (Given Appropriate SGIs and Support Spaces)		
Capacities		
Room Quantity	Cap.	Total

STRAYER MIDDLE SCHOOL (continued)

BUILDING ADMINISTRATION			
Building Main Office	1	0	0
Nurse	1	0	0
Guidance	2	0	0
I.P.C. Room	0	0	0
Faculty Room	1	0	0
School Psych	1	0	0
53			
TOTAL CAPACITY		936 Students	
90% USE CAPACITY		842 Students	

1	0	0
1	0	0
2	0	0
0	0	0
1	0	0
0	0	0 To a conf Room
54		
TOTAL CAPACITY		964 Students
90% USE CAPACITY		868 Students

MIDDLE SCHOOL CAPACITY (continued)

CURRENT USE CAPABILITY DISTRICT-WIDE	
TOTAL CAPACITY	1346 Students
90% USE CAPACITY	1211 Students

CAPACITY GENERATION DISTRICT-WIDE	
CAPACITY GENERATION	
TOTAL CAPACITY	1318 Students
90% USE CAPACITY	1186 Students

TOTAL ENROLLMENT (2015/16) 1291

HIGH SCHOOL CAPACITIES

HIGH SCHOOL

BUILDING

CURRENT USE CAPABILITY			
Room Quantity		Cap.	Total

CAPACITY GENERATION (Given Appropriate SGIs and Support Spaces)		
Capacities		
Room Quantity	Cap.	Total

FRESHMAN CENTER **2015/16 Enrollment = 410**

GENERAL EDUCATION				
Regular Classroom	11		25	275
SCIENCE LABORATORIES				
Science Lab/Classrooms	4		25	100
WORLD LANGUAGE				
World Language Classroom	2		25	50
HEALTH CLASSROOMS				
Health Classroom	2		25	50
COMPUTER ROOMS				
Computer Room	2		20	40
Special Ed and Support				
Special Education Classroom	0		12	0
Special Ed - Autistic Support	2.5		12	30
Support Classrooms (pullout)	2		0	0
IU Classrooms	1		0	0
OTHER INSTRUCTIONAL SPACES				
Large Group Instruction	0		0	0
Small Group Instruction	1		0	0
FAMILY AND CONSUMER SCIENCE				
FACS Lab	0		20	0
FACS Instruction	0		20	0
TECHNOLOGY EDUCATION				
STEM/Tech Ed Instruction	0		20	0
STEM/Tech Ed Lab	0		20	0

11	25	275
4	25	100
2	25	50
2	25	50
2	20	40
0	12	0
2.5	12	30
2	0	0
1	0	0
0	0	0
2	0	0
0	20	0
0	20	0
0	20	0
0	20	0

BUILDING

CURRENT USE CAPABILITY			
Room Quantity		Cap.	Total

CAPACITY GENERATION (Given Appropriate SGIs and Support Spaces)		
Capacities		
Room Quantity	Cap.	Total

FRESHMAN CENTER (continued)

THE ARTS

Art Classroom (incl. photo)	1		20	20
Video Studio	0		0	0
Music Instruction	0		25	0
Band Room	1		25	25
Orchestra Room	0		25	0
Choral Room	1		25	25
Practice Areas	0		0	0

	1	20	20
	0	0	0
	0	25	0
	1	25	25
	0	25	0
	1	25	25
	0	0	0

PHYSICAL EDUCATION/ ATHLETICS

Gymnasium	1		66	66
Auxiliary Gymnasium	0		33	0
Fitness Room	1		33	33
Training Area	0		0	0
Athletic Offices	2		0	0
Natatorium	0		0	0
Locker Room	2		0	0

	1	66	66
	0	33	0
	1	33	33
	0	0	0
	2	0	0
	0	0	0
	2	0	0

BUILDING SUPPORT

Auditorium	0		0	0
Stage	0		0	0
Cafeteria	1		0	0
Kitchen	1		0	0
Media Center	1		0	0
Other	0		0	0

	0	0	0
	0	0	0
	1	0	0
	1	0	0
	1	0	0
	0	0	0

BUILDING

CURRENT USE CAPABILITY			
Room Quantity		Cap.	Total

CAPACITY GENERATION (Given Appropriate SGIs and Support Spaces)		
Capacities		
Room Quantity	Cap.	Total

FRESHMAN CENTER (continued)

BUILDING ADMINISTRATION			
Building Main Office	1	0	0
Nurse	1	0	0
Guidance	1	0	0
Security	0	0	0
I.P.C. Room	1	0	0
Faculty Room	1	0	0
Department Offices	0	0	0
20			
TOTAL CAPACITY		714 Students	
90% USE CAPACITY		571 Students	

1	0	0
1	0	0
1	0	0
0	0	0
1	0	0
1	0	0
0	0	0
20		
TOTAL CAPACITY		714 Students
90% USE CAPACITY		571 Students

BUILDING

CURRENT USE CAPABILITY			
Room Quantity		Cap.	Total

CAPACITY GENERATION (Given Appropriate SGIs and Support Spaces)		
Capacities		
Room Quantity	Cap.	Total

QUAKERTOWN SENIOR HIGH SCHOOL

2015/16 Enrollment =

1247

GENERAL EDUCATION				
Regular Classroom	42		25	1050
SCIENCE LABORATORIES				
Science Lab/Classrooms	11		25	275
FOREIGN LANGUAGE				
Foreign Language Classroom	0		25	0
HEALTH CLASSROOMS				
Health Classroom	0		25	0
COMPUTER ROOMS				
Computer Room	1		20	20
Special Ed and Support				
Special Education Classroom	2		12	24
Emotional Support	0		12	0
IU Life Skills	1		12	12
Support Classrooms (pullout)	0		0	0
(support may by 1/2 size)	5		0	0
OTHER INSTRUCTIONAL SPACES				
Large Group Instruction	2		0	0
Small Group Instruction	3		0	0
FAMILY AND CONSUMER SCIENCE				
FACS Lab	2		20	40
FACS Instruction	0		20	0
TECHNOLOGY EDUCATION				
STEM/Tech Ed Instruction/ Design	2.5		20	50
STEM/Tech Ed Lab	2		20	40

42	25	1050
11	25	275
0	25	0
0	25	0
1	20	20
2	12	24
0	12	0
1	12	12
0	0	0
5	0	0
2	0	0
3	0	0
2	20	40
0	20	0
2.5	20	50
2	20	40

BUILDING

CURRENT USE CAPABILITY			
Room Quantity		Cap.	Total

CAPACITY GENERATION (Given Appropriate SGIs and Support Spaces)		
Capacities		
Room Quantity	Cap.	Total

QUAKERTOWN SENIOR HIGH SCHOOL (continued)

THE ARTS

Art Classroom (incl. photo)	2		20	40
Video Studio	1		20	20
Music Instruction	0		25	0
Band Room	1		25	25
Orchestra Room	0		25	0
Choral Room	1		25	25
Practice Areas	0		0	0

	2	20	40
	1	20	20
	0	25	0
	1	25	25
	0	25	0
	1	25	25
	0	0	0

PHYSICAL EDUCATION/ ATHLETICS

Gymnasium	1		66	66
Auxiliary Gymnasium	2		33	66 Wrest & Aux
Fitness Room	2		33	66 Weigh & fitness
Training Area	0		0	0
Athletic Offices	1		0	0
Natatorium	0		0	0
Locker Room	2		0	0

	1	66	66
	2	33	66
	2	33	66
	0	0	0
	1	0	0
	0	0	0
	2	0	0

BUILDING SUPPORT

Auditorium	1		0	0
Stage	1		0	0
Cafeteria	1		0	0
Kitchen	1		0	0
Media Center	1		0	0
Other	0		0	0

	1	0	0
	1	0	0
	1	0	0
	1	0	0
	1	0	0
	0	0	0

BUILDING

CURRENT USE CAPABILITY			
Room Quantity		Cap.	Total

CAPACITY GENERATION (Given Appropriate SGIs and Support Spaces)		
Capacities		
Room Quantity	Cap.	Total

QUAKERTOWN SENIOR HIGH SCHOOL (continued)

BUILDING ADMINISTRATION			
Building Main Office	1	0	0
Nurse	1	0	0
Guidance	1	0	0
Security	0	0	0
I.P.C. Room	3	0	0
Faculty Room	2	0	0
Department Offices	0	0	0
64.5			
TOTAL CAPACITY		1819 Students	
90% USE CAPACITY		1455 Students	

1	0	0
1	0	0
1	0	0
0	0	0
3	0	0
2	0	0
0	0	0
64.5		
TOTAL CAPACITY		1819 Students
90% USE CAPACITY		1455 Students

HIGH SCHOOL CAPACITY (continued)

CURRENT USE CAPABILITY DISTRICT-WIDE	
TOTAL CAPACITY	2533 Students
90% USE CAPACITY	2026 Students

CAPACITY GENERATION DISTRICT-WIDE	
TOTAL CAPACITY	2533 Students
90% USE CAPACITY	2026 Students

TOTAL ENROLLMENT 2015/16 1657

DISTRICT OPTIONS

INTRODUCTION

The planning team worked with a district-structured Committee regularly between September 2015 and May 2016 to assimilate all of the information provided on prior pages, then to develop the options in this section and conceptual budgets in the next section. The Committee was composed of District Administration, educators and members of the community. The group met weekly and bi-weekly (depending on activities) to deeply scrutinize the facility needs of the District and to develop a cohesive plan to accommodate the future needs of the students in the District. The team initiated that process using the Facilities Assessment information developed in Section 7 of this document. That information provided the support to develop the options and costs identified in Section 5 of this study.

As part of this process the team initially developed twelve options for handling the anticipated enrollment. These options were generated with the input of the Committee. Subsequent planning workshops generated further options eventually leading to a selection of a preferred option. This preferred option was further developed by the Committee and then presented to the District Board of Directors Facility Committee first and then at a public meeting. The preferred Option presented at those meetings was Option 15.

The Board of Directors Facility Committee met subsequently and after receiving feedback from the Committee meeting the District Administration met again. In those meetings an interim solution was sought given that financing the entire Option 15 would be challenging for the District. A resulting Option 20 – INTERIM was developed as is further discussed in this section.

Option 20 seeks to do the following:

- Construct a new 600 student elementary school on the West Pumping Station Road site with the infrastructure and core facilities to support a future middle school
- Construct additions and renovations at Neidig Elementary School to accommodate 600 students
- If necessary, construct additions and renovations at Richland Elementary School
- The 600 student schools are meant to absorb the current population of Tohickon Valley Elementary School and if necessary Quakertown Elementary School
- Sell Tohickon Valley Elementary School
- Decide what to do with Quakertown Elementary School. Options include reuse as an Academic Facility as described in Option 15 or conversion to an Administrative Facility. This Option will remain open to the Board of Directors as enrollment and community direction dictates.

- At some point in the future when the District has determined that it is appropriate to develop, a new middle school would be constructed at the West Pumping Station Road site. This facility will potentially share core facilities and site with the new elementary school and will likely replace Milford Middle School.

The overall costs for each of the options is developed in Section 5. In addition to the additional building area defined by this section, the Facilities Assessment information provided in Section 7 is used to calculate overall option costs.

For the Option 20 described above and shown on the following pages, the overall project costs will evolve as that portion of work is completed to house the given enrollment until such time as the district determines what direction to go with the middle school population at Milford Elementary School (as potentially described in the costs for Option 15).

OPTION 20 - INTERIM

BUILDING/SITE	NEW GRADE STRUCTURE	DISPOSITION	REVISED BUILDING CAPACITY
Neidig	K-5	Add & Renovate	600
Pfaff	K-5	Maintain	492
Quakertown	K-5	Maintain (for the moment)	259
Richland	K-5	Renovate (could add later)	384
Tohickon Valley	Close	Sell	0
Trumbauersville	K-5	Maintain	430
New Elementary	K-5	New	600
TOTAL ELEMENTARY			2765
Milford	6-8	Maintain (for the moment)	319
Strayer	6-8	Maintain	868
New Middle School	When needed	Construct when needed	(600 – later phase)
TOTAL MIDDLE			1787 (with later phase)
Freshman Center	9	Renovate	571
High School	10-12	Maintain	1455
TOTAL HIGH			2026
TOTAL			6578

OVERALL OPTIONS

The options that follow provide for a variety of ways to satisfy anticipated District enrollment within all of the current and proposed district facilities. These many options were evaluated diligently by the District-wide Facility Committee. The first several pages are Option Summaries that indicate the grade structures anticipated for facilities within each individual Option. These are followed by tables describing the proposed modification to grade structure as well as a preliminary assessment of new building area required to support those capacities. For a full anticipated cost for all NEW CONSTRUCTION, RENOVATIONS AND SOFT COSTS, please go to Section 5 – BUDGET ESTIMATES.

The various options follow this page.

OPTIONS SUMMARY

	Building/ Site	Grade Structure	Disposition	Proposed Building Capacity	Design Dates	Construction Dates
Current	Neidig	K-5		287	-	-
	Pfaff	K-5		492	-	-
	Quakertown	K-5		259	-	-
	Richland	K-5		384	-	-
	Tohickon	K-5		368	-	-
	Trumbauersville	K-5		430	-	-
	Milford Middle	6-8		319	-	-
	Strayer	6-8		868	-	-
	Freshman Center	9		571	-	-
	Senior High	10-12		1455	-	-
	District Administration				-	-
TOTAL DISTRICT CAPACITY				5433		
Option 1	Neidig	K-5	Add & Renovate	400	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	K-5	Renovate	259	-	-
	Richland	K-5	Add & Renovate	450	-	-
	Tohickon	K-5	Renovate	368	-	-
	Trumbauersville	K-5	Renovate	430	-	-
	Milford Middle	6-8	Add & Renovate	600	-	-
	Strayer	6-8	Maintain	868	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
					-	-
	District Administration		Maintain	0	-	-
TOTAL DISTRICT CAPACITY				5893		
Option 2	Neidig	K-5	Add & Renovate	400	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	K-5	Renovate	259	-	-
	Richland	K-5	Add & Renovate	450	-	-
	Tohickon	K-5	Renovate	430	-	-
	Trumbauersville	K-5	Renovate	430	-	-
	Milford Middle	6-8	Demo & New	600	-	-
	Strayer	6-8	Maintain	868	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
					-	-
	District Administration		Maintain	0	-	-
TOTAL DISTRICT CAPACITY				5955		

OPTIONS SUMMARY (continued)

	Building/ Site	Grade Structure	Disposition	Proposed Building Capacity	Design Dates	Construction Dates
Option 3	Neidig	K-5	Renovate	287	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	K-5	Renovate	259	-	-
	Richland	K-5	Renovate	384	-	-
	Tohickon	-	Close	0	-	-
	Trumbauersville	K-5	Renovate	430	-	-
	New Elementary	K-5	New	500	-	-
	Milford Middle	6-8	Add & Renovate	600	-	-
	Strayer	6-8	Maintain	868	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
					-	-
	District Administration		Maintain	0	-	-
	TOTAL DISTRICT CAPACITY			5846		
Option 4	Neidig	K-5	Add & Renovate	400	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	K-5	Renovate	259	-	-
	Richland	K-5	Add & Renovate	450	-	-
	Tohickon	-	Renovate	368	-	-
	Trumbauersville	K-5	Renovate	430	-	-
	Milford Middle	-	Close	0	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	6-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
					-	-
	District Administration		Maintain	0	-	-
	TOTAL DISTRICT CAPACITY			5893		
Option 5	Neidig	K-5	Renovate	287	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	K-5	Renovate	259	-	-
	Richland	K-5	Add & Renovate	384	-	-
	Tohickon	-	Close	0	-	-
	Trumbauersville	K-5	Renovate	430	-	-
	New Elementary	K-5	New	500	-	-
	Milford Middle	-	Close	0	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	6-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
					-	-
	District Administration		Maintain	0	-	-
	TOTAL DISTRICT CAPACITY			5846		

OPTIONS SUMMARY (continued)

	Building/ Site	Grade Structure	Disposition	Proposed Building Capacity	Design Dates	Construction Dates
Option 6	Neidig	K-5	Renovate	287	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	K-5	Close	0	-	-
	Richland	K-5	Renovate	384	-	-
	Tohickon	-	Close	0	-	-
	Trumbauersville	K-5	Renovate	430	-	-
	New Elementary	K-5	New	800	-	-
	Milford Middle	6-8	Add & Renovate	600	-	-
	Strayer	6-8	Maintain	868	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
	District Administration		Sell	0	-	-
	District Admin at QES		Renovate QES	0	-	-
	TOTAL DISTRICT CAPACITY			5887		
Option 7	Neidig	K-5	Add & Renovate	400	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	K-5	Close	0	-	-
	Richland	K-5	Add & Renovate	450	-	-
	Tohickon	-	Renovate	368	-	-
	Trumbauersville	K-5	Renovate	430	-	-
	New K-8	K-8	New	250	-	-
	Milford Middle	-	Close	0	-	-
	Strayer	6-8	Maintain	868	-	-
	New K-8	K-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
	District Administration		Sell	0	-	-
	District Admin @ QES		Renovate QES	0	-	-
	TOTAL DISTRICT CAPACITY			5884		
Option 8	Neidig	K-5	Renovate	287	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	K-5	Close	0	-	-
	Richland	K-5	Renovate	384	-	-
	Tohickon	-	Close	0	-	-
	Trumbauersville	K-5	Renovate	430	-	-
	New Elementary	K-5	New	750	-	-
	Milford Middle	-	Close	0	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	6-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
	District Administration		Sell	0	-	-
	District Admin @ QES		Renovate QES	0	-	-
	TOTAL DISTRICT CAPACITY			5837		

OPTIONS SUMMARY (continued)

	Building/ Site	Grade Structure	Disposition	Proposed Building Capacity	Design Dates	Construction Dates
Option 9	Neidig	K-5	Add & Renovate	625	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	-	Close	0	-	-
	Richland	K-5	Add & Renovate	625	-	-
	Tohickon	-	Close	0	-	-
	Trumbauersville	K-5	Add & Renovate	625	-	-
	-	-	-	-	-	-
	Milford Middle	-	Close	-	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	6-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
	District Administration		Sell	0	-	-
	District Admin @ QES		Renovate QES	0	-	-
	TOTAL DISTRICT CAPACITY			5861		
Option 10	Neidig	K-5	Add & Renovate	500	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	-	Close	0	-	-
	Richland	K-5	Add & Renovate	500	-	-
	Tohickon	-	Close	0	-	-
	Trumbauersville	K-5	Renovate	430	-	-
	New Elementary	K-5	New	450	-	-
	Milford Middle	-	Close	-	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	6-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
	District Administration		Sell	0	-	-
	District Admin @ QES		Renovate QES	0	-	-
	TOTAL DISTRICT CAPACITY			5866		
Option 11	Neidig	K-5	Add & Renovate	500	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	-	Close	0	-	-
	Richland	K-5	Add & Renovate	500	-	-
	Tohickon	-	Close	0	-	-
	Trumbauersville	K-5	Renovate	430	-	-
	New Elementary	K-5	New	450	-	-
	Milford Middle	-	Close	-	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	6-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
	District Administration		Sell	0	-	-
	Haycock	Pre-K	Renovate	0	HOW MANY STUDENTS?	-
	Quakertown	District Admin	Renovate QES	0		-
	TOTAL DISTRICT CAPACITY			5866		

OPTIONS SUMMARY (continued)

	Building/ Site	Grade Structure	Disposition	Proposed Building Capacity	Design Dates	Construction Dates
Option 12	Neidig	1-5	Add & Renovate	350	-	-
	Pfaff	1-5	Maintain	492	-	-
	Quakertown	Kindergarten	Convert to K Center	376	-	-
	Richland	1-5	Renovate	384	-	-
	Tohickon	Close	Sell	0	-	-
	Trumbauersville	1-5	Maintain	430	-	-
	New Elementary	1-5	New	350	-	-
	Milford Middle	Close	Close	-	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	6-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
					-	-
	District Administration		Maintain	0	-	-
	TOTAL DISTRICT CAPACITY			5876		
Option 13	Neidig	1-5	Add & Renovate	350	-	-
	Pfaff	1-5	Maintain	492	-	-
	Quakertown	Kindergarten	Convert to K Center	188	-	-
	Richland	1-5	Renovate	384	-	-
	Tohickon	Close	Sell	0	-	-
	Trumbauersville	1-5	Maintain	430	-	-
	New Elementary	1-5 & K-Center	New	538	-	-
	Milford Middle	Close	Close	-	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	6-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
					-	-
	District Administration	Close	Sell	0	-	-
	District Admin @ QES	District Admin	Renovate QES		-	-
	TOTAL DISTRICT CAPACITY			5876		
Option 14	Neidig	1-5	Add & Renovate	350	-	-
	Pfaff	1-5	Maintain	492	-	-
	Quakertown	Kindergarten	Convert to K Center	188	-	-
	Richland	1-5	Renovate	384	-	-
	Tohickon	Close	Sell	0	-	-
	Trumbauersville	1-5	Maintain	430	-	-
	New Elementary	1-8 & K-Center	New	538	-	-
	Milford Middle	Close	Close	-	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	1-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
					-	-
	District Administration	Close	Sell	0	-	-
	District Admin @ QES	District Admin	Renovate QES		-	-
	TOTAL DISTRICT CAPACITY			5876		

OPTIONS SUMMARY (continued)

	Building/ Site	Grade Structure	Disposition	Proposed Building Capacity	Design Dates	Construction Dates
Option 15	Neidig	1-5	Add & Renovate	375	-	-
	Pfaff	1-5	Maintain	492	-	-
	Quakertown	Kindergarten	Convert to K Center	376	-	-
	Richland	1-5	Add & Renovate	384	-	-
	Tohickon Valley	Close	Sell	0	-	-
	Trumbauersville	1-5	Maintain	430	-	-
	New Elementary	1-5 shared	New	375	-	-
	Milford Middle	Close	Close	0	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	6-8 shared	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
					-	-
	District Administration		Maintain	0	-	-
TOTAL DISTRICT CAPACITY				5926		
Option 16	Neidig	1-5	Add & Renovate	350	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	Kindergarten	Convert to K Center	188	-	-
	Richland	1-5	Renovate	384	-	-
	Tohickon	Close	Sell	0	-	-
	Trumbauersville	K-5	Maintain	430	-	-
	New Elementary	K-5	New	500	-	-
	Milford Middle	Close	Close	0	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	6-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
					-	-
	District Administration	Close	Sell	0	-	-
	District Admin @ QES	District Admin	Renovate QES		-	-
TOTAL DISTRICT CAPACITY				5838		
Option 17	Neidig	1-5	Add & Renovate	350	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	Kindergarten	Convert to K Center	188	-	-
	Richland	1-5	Renovate	384	-	-
	Tohickon	Close	Sell	0	-	-
	Trumbauersville	K-5	Maintain	430	-	-
	New Elementary	K-8	New	500	-	-
	Milford Middle	Close	Close	0	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	K-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
					-	-
	District Administration	Close	Sell	0	-	-
	District Admin @ QES	District Admin	Renovate QES		-	-
TOTAL DISTRICT CAPACITY				5838		

OPTIONS SUMMARY (continued)

	Building/ Site	Grade Structure	Disposition	Proposed Building Capacity	Design Dates	Construction Dates
Option 18	Neidig	K-5	Add & Renovate	475	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	K-5	Add & Renovate	475	-	-
	Richland	K-5	Add & Renovate	475	-	-
	Tohickon	-	Close	0	-	-
	Trumbauersville	K-5	Renovate	475	-	-
	Milford Middle	-	Close	0	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	6-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
	District Administration		Maintain	0	-	-
	TOTAL DISTRICT CAPACITY			5886		
Option 19	Neidig	1-5	Add & Renovate	375	-	-
	Pfaff	1-5	Maintain	492	-	-
	Quakertown	Kindergarten	Convert to K Center	188	-	-
	Richland	1-5	Renovate	384	-	-
	Tohickon	Close	Sell	0	-	-
	Trumbauersville	1-5	Maintain	430	-	-
	New Elementary	1-8		375	-	-
	New K-Center	Kindergarten	New	188	-	-
	Milford Middle	Close	Close	0	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	1-8	New	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
	District Administration		Maintain	0	-	-
	TOTAL DISTRICT CAPACITY			5926		
Option 20 INTERIM	Neidig	K-5	Add & Renovate	600	-	-
	Pfaff	K-5	Maintain	492	-	-
	Quakertown	K-5	Maint. for the moment	259	-	-
	Richland	K-5	Renovate	384	-	-
	Tohickon	Close	Sell	0	-	-
	Trumbauersville	K-5	Maintain	430	-	-
	New Elementary	K-5	New	600	-	-
	Milford Middle	6-8	Maint. for the moment	319	-	-
	Strayer	6-8	Maintain	868	-	-
	New Middle School	6-8	Constr. when needed	600	-	-
	Freshman Center	9	Renovate	571	-	-
	Senior High	10-12	Maintain	1455	-	-
	District Administration		Maintain	0	-	-
	TOTAL DISTRICT CAPACITY			6578		

OPTION 1

District-Wide Renovations Per Facility Assessments - Add to Neidig & Richland

Quakertown Community School District

MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION	CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Add and Renovate per Facilities Assessment	K-5	287	386		400	-	-	7684
Pfaff		Maintain	K-5	492	457		492	-	-	0
Quakertown		Renovate per Facilities Assessment	K-5	259	269		259	-	-	0
Richland		Add and Renovate per Facilities Assessment	K-5	384	434		450	-	-	5100
Tohickon		Renovate per Facilities Assessment	K-5	368	389		368	-	-	0
Trumbauersville		Renovate per Facilities Assessment	K-5	430	407		430	-	-	0
		-	-	0	0		0	-	-	0
			ELEMENTARY SCHOOLS		2342	2342	2399			12784
Milford		Add and Renovate per Facilities Assessment	6-8	319	428		600	-	-	17000
Strayer		Maintain	6-8	868	863		868	-	-	0
		-	-	0	0		0	-	-	0
			MIDDLE SCHOOLS		1291	1291	1468			17000
Freshman Center		Renovate per Facilities Assessment	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS		1657	1657	2026			0
District Administration		Maintain	-	0	0	0	0	-	-	0
		-	-	0	0	0	0	-	-	0
			DISTRICT ADMIN		0	0	0			0
GRANDTOTAL						5290	5893			29784

OPTION 2

New Milford Middle at Current Milford Site

Renovations Per Facility Assessments

Quakertown Community School District

MASTER PLANNING

BUILDING	PROJECTS	GRADE CONFIGURATION	CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
		Existing Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig	Add and Renovate per Facilities Assessment	K-5	287	386		400	-	-	7684
Pfaff	Maintain	K-5	492	457		492	-	-	0
Quakertown	Renovate per Facilities Assessment	K-5	259	269		259	-	-	0
Richland	Add and Renovate per Facilities Assessment	K-5	384	434		450	-	-	5100
Tohickon	Renovate per Facilities Assessment	K-5	368	389		430	-	-	0
Trumbauersville	Renovate per Facilities Assessment	K-5	430	407		430	-	-	0
-	-	-	0	0		0	-	-	0
				2342	2342	2461			12784
Milford	Build New on same site and demolish old Milford	6-8	319	428		600	-	-	111000
Strayer	Maintain	6-8	868	863		868	-	-	0
	-	-	0	0		0	-	-	0
				1291	1291	1468			111000
Freshman Center	Renovate per Facilities Assessment	9	571	410		571	-	-	0
Quakertown High	Maintain	10-12	1455	1247		1455	-	-	0
				1657	1657	2026			0
District Administration	Maintain	-	0	0	0	0	-	-	0
	-	-	0	0	0	0	-	-	0
DISTRICT ADMIN				0	0	0			0
GRANDTOTAL					5290	5955			123784

OPTION 3

New Elementary at West Pumping Station Road

Renovations Per Facility Assessments

Quakertown Community School District
MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION	CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Renovate per Facilities Assessment	K-5	287	386		287	-	-	
Pfaff		Maintain	K-5	492	457		492	-	-	0
Quakertown		Renovate per Facilities Assessment	K-5	259	269		259	-	-	0
Richland		Renovate per Facilities Assessment	K-5	384	434		384	-	-	
Tohickon		Close	-	368	389		0	-	-	0
Trumbauersville		Renovate per Facilities Assessment	K-5	430	407		430	-	-	0
New Elememtry		New Building on West Pumping Station Road	-	0	0		500	-	-	87500
			ELEMENTARY SCHOOLS			2342	2342	2352		87500
Milford		Add and Renovate per Facilities Assessment	6-8	319	428		600	-	-	23800
Strayer		Maintain	6-8	868	863		868	-	-	0
		-	-	0	0		0	-	-	0
			MIDDLE SCHOOLS			1291	1291	1468		23800
Freshman Center		Renovate per Facilities Assessment	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS			1657	1657	2026		0
District Administration		Maintain	-	0	0	0	0	-	-	0
		-	-	0	0	0	0	-	-	0
DISTRICT ADMIN					0	0	0			0
GRANDTOTAL						5290	5846			111300

OPTION 4
New Middle School at West Pumping Station Road
Renovations Per Facility Assessments

Quakertown Community School District
MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION	CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Add and Renovate per Facilities Assessment	K-5	287	386		400	-	-	7684
Pfaff		Maintain	K-5	492	457		492	-	-	0
Quakertown		Renovate per Facilities Assessment	K-5	259	269		259	-	-	0
Richland		Add and Renovate per Facilities Assessment	K-5	384	434		450	-	-	5100
Tohickon		Renovate per Facilities Assessment	K-5	368	389		368	-	-	0
Trumbauersville		Renovate per Facilities Assessment	K-5	430	407		430	-	-	0
		-	-	0	0		0	-	-	0
			ELEMENTARY SCHOOLS		2342	2342	2399			12784
Milford		Close	-	319	428		0	-	-	0
Strayer		Maintain	6-8	868	863		868	-	-	0
New Middle School		New Building on West Pumping Station Road	6-8	0	0		600	-	-	111000
			MIDDLE SCHOOLS		1291	1291	1468			111000
Freshman Center		Renovate per Facilities Assessment	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS		1657	1657	2026			0
District Administration		Maintain	-	0	0	0	0	-	-	0
		-	-	0	0	0	0	-	-	0
DISTRICT ADMIN					0	0	0			0
GRANDTOTAL						5290	5893			123784

OPTION 5

New Elementary and New Middle School at West Pumping Station Road

Renovations Per Facility Assessments

Quakertown Community School District
MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION	CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Renovate per Facilities Assessment	K-5	287	386		287	-	-	
Pfaff		Maintain	K-5	492	492		492	-	-	0
Quakertown		Renovate per Facilities Assessment	K-5	259	259		259	-	-	0
Richland		Renovate per Facilities Assessment	K-5	384	450		384	-	-	0
Tohickon		Close	-	368	389		0	-	-	0
Trumbauersville		Renovate per Facilities Assessment	K-5	430	407		430	-	-	0
New Elememtry		New Building on West Pumping Station Road	-	0	0		500	-	-	87500
			ELEMENTARY SCHOOLS			2383	2342	2352		87500
Milford		Close	-	319	428		0	-	-	0
Strayer		Maintain	6-8	868	863		868	-	-	0
New Middle School		New Building on West Pumping Station Road	6-8	0	0		600	-	-	111000
			MIDDLE SCHOOLS			1291	1291	1468		111000
Freshman Center		Renovate per Facilities Assessment	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS			1657	1657	2026		0
District Administration		Maintain	-	0	0	0	0	-	-	0
		-	-	0	0	0	0	-	-	0
DISTRICT ADMIN					0	0	0			0
GRANDTOTAL						5290	5846			198500

OPTION 6

New Elementary at West Pumping Station Road. Admin @ Quakertown ES

Renovations Per Facility Assessments

Quakertown Community School District
MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION	CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Renovate per Facilities Assessment	K-5	287	386		287	-	-	0
Pfaff		Maintain	K-5	492	457		492	-	-	0
Quakertown		Close - Renovate for Admin	K-5	259	269		0	-	-	0
Richland		Renovate per Facilities Assessment	K-5	384	434		384	-	-	0
Tohickon		Close	-	400	389		0	-	-	0
Trumbauersville		Renovate per Facilities Assessment	K-5	430	407		430	-	-	0
New Elememtry		New Building on West Pumping Station Road	-	0	0		800	-	-	140000
			ELEMENTARY SCHOOLS			2342	2342	2393		140000
Milford		Add and Renovate per Facilities Assessment	6-8	319	428		600	-	-	23800
Strayer		Maintain	6-8	868	863		868	-	-	0
		-	-	0	0		0	-	-	0
			MIDDLE SCHOOLS			1291	1291	1468		23800
Freshman Center		Renovate per Facilities Assessment	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS			1657	1657	2026		0
District Administration		Sell	-	0	0	0	0	-	-	0
District Administration		Renovate Quakertown Elementary	-	0	0	0	0	-	-	0
			DISTRICT ADMIN			0	0	0		0
GRANDTOTAL						5290	5887			163800

OPTION 7

New K-8 School at West Pumping Station Road & Renovate QES into District Admin

Renovations Per Facility Assessments

Quakertown Community School District
MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION	CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Add and Renovate per Facilities Assessment	K-5	287	386		400	-	-	7684
Pfaff		Maintain	K-5	492	457		492	-	-	0
Quakertown		Close-Renovate for Admin	K-5	259	269		0	-	-	0
Richland		Add and Renovate per Facilities Assessment	K-5	384	434		450	-	-	5100
Tohickon		Renovate per Facilities Assessment	K-5	368	389		368	-	-	0
Trumbauersville		Renovate per Facilities Assessment	K-5	430	407		430	-	-	0
New K-8		New Building on West Pumping Station Road	-	0	0		250	-	-	43750
			ELEMENTARY SCHOOLS		2342	2342	2390			56534
Milford		Close	-	319	428		0	-	-	0
Strayer		Maintain	6-8	868	863		868	-	-	0
New K-8		New Building on West Pumping Station Road	6-8	0	0		600	-	-	111000
			MIDDLE SCHOOLS		1291	1291	1468			111000
Freshman Center		Renovate per Facilities Assessment	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS		1657	1657	2026			0
District Administration		Sell	-	0	0	0	0	-	-	0
District Administration		Renovate Quakertown Elementary	-	0	0	0	0	-	-	0
			DISTRICT ADMIN		0	0	0			0
GRANDTOTAL						5290	5884			167534

OPTION 8

New ES & MS at West Pumping Station Road & Renovate QES to District Admin

Renovations Per Facility Assessments

Quakertown Community School District

MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION	CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Renovate per Facilities Assessment	K-5	287	386		287	-	-	
Pfaff		Maintain	K-5	492	457		492	-	-	0
Quakertown		Close	K-5	259	269		0	-	-	0
Richland		Renovate per Facilities Assessment	K-5	384	434		384	-	-	
Tohickon		Close	-	368	389		0	-	-	0
Trumbauersville		Renovate per Facilities Assessment	K-5	430	407		430	-	-	0
New Elementary		New Building on West Pumping Station Road	-	0	0		750	-	-	131250
			ELEMENTARY SCHOOLS		2342	2342	2343			131250
Milford		Close	-	319	428		0	-	-	0
Strayer		Maintain	6-8	868	863		868	-	-	0
New Middle School		New Building on West Pumping Station Road	6-8	0	0		600	-	-	111000
			MIDDLE SCHOOLS		1291	1291	1468			111000
Freshman Center		Renovate per Facilities Assessment	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS		1657	1657	2026			0
District Administration		Sell	-	0	0	0	0	-	-	0
District Administration		Renovate Quakertown Elementary	-	0	0	0	0	-	-	0
DISTRICT ADMIN					0	0	0			0
GRANDTOTAL						5290	5837			242250

OPTION 9

New MS at West Pumping Station Rd, Adds @ Neidig & Richland, District Admin @ QES

Renovations Per Facility Assessments

Quakertown Community School District

MASTER PLANNING

BUILDING	PROJECTS	GRADE CONFIGURATION		CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED	
		Existing Grade Configuration	Revised Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)	
Neidig	Add and Renovate per Facilities Assessment	K-5	K-5	287	386		625	-	-	23800	
Pfaff	Maintain	K-5	K-5	492	457		492	-	-	0	
Quakertown	Close - renovate for District Admin	K-5	Close	259	269		0	-	-	0	
Richland	Add and Renovate per Facilities Assessment	K-5	K-5	384	434		625	-	-	17000	
Tohickon	Renovate per Facilities Assessment	K-5	Close	368	389		0	-	-	0	
Trumbauersville	Add and Renovate per Facilities Assessment	K-5	K-5	430	407		625	-	-	13600	
	-	-		0	0		0	-	-	0	
		ELEMENTARY SCHOOLS				2342	2342	2367			54400
Milford	Close	-	Close	319	428		0	-	-	0	
Strayer	Maintain	6-8	6-8	868	863		868	-	-	0	
New Middle School	New Building on West Pumping Station Road	6-8	6-8	0	0		600	-	-	111000	
		MIDDLE SCHOOLS				1291	1291	1468			111000
Freshman Center	Renovate per Facilities Assessment	9	9	571	410		571	-	-	0	
Quakertown High	Maintain	10-12	10-12	1455	1247		1455	-	-	0	
		HIGH SCHOOLS				1657	1657	2026			0
District Administration	Sell	-	Close	0	0	0	0	-	-	0	
District Administration	Renovate Quakertown Elementary	-	District Admin	0	0	0	0	-	-	0	
DISTRICT ADMIN						0	0	0			0
GRANDTOTAL							5290	5861			165400

OPTION 10

New MS & New ES at West Pumping Station Rd, Adds @ Neidig & Richland, District Admin Renovations Per Facility Assessments

Quakertown Community School District

MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION	CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Add and Renovate per Facilities Assessment	K-5	287	386		500	-	-	14484
Pfaff		Maintain	K-5	492	457		492	-	-	0
Quakertown		Close - renovate for District Admin	K-5	259	269		0	-	-	0
Richland		Add and Renovate per Facilities Assessment	K-5	384	434		500	-	-	7888
Tohickon		Close	K-5	368	389		0	-	-	0
Trumbauersville		Renovate per Facilities Assessment	K-5	430	407		430	-	-	0
New Elementary		New Building on West Pumping Station Road	-	0	0		450	-	-	78750
			ELEMENTARY SCHOOLS		2342	2342	2372			101122
Milford		Close	-	319	428		0	-	-	0
Strayer		Maintain	6-8	868	863		868	-	-	0
New Middle School		New Building on West Pumping Station Road	6-8	0	0		600	-	-	111000
			MIDDLE SCHOOLS		1291	1291	1468			111000
Freshman Center		Renovate per Facilities Assessment	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS		1657	1657	2026			0
District Administration		Sell	-	0	0	0	0	-	-	0
District Administration		Renovate Quakertown Elementary	-	0	0	0	0	-	-	0
			DISTRICT ADMIN		0	0	0			0
GRANDTOTAL						5290	5866			212122

OPTION 11

New MS & New ES at West Pumping Station Rd, Adds @ Neidig & Richland,
District Admin @ QES, Pre-K @ Haycock, Renovations Per Facility Assessments

Quakertown Community School District
MASTER PLANNING

BUILDING	PROJECTS	GRADE CONFIGURATION	CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
		Existing Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig	Add and Renovate per Facilities Assessment	K-5	287	386		500	-	-	14484
Pfaff	Maintain	K-5	492	457		492	-	-	0
Quakertown	Close - renovate for District Admin	K-5	259	269		0	-	-	0
Richland	Add and Renovate per Facilities Assessment	K-5	384	434		500	-	-	7888
Tohickon	Close	K-5	368	389		0	-	-	0
Trumbauersville	Renovate per Facilities Assessment	K-5	430	407		430	-	-	0
New Elementary	New Building on West Pumping Station Road	-	0	0		450	-	-	78750
		ELEMENTARY SCHOOLS		2342	2342	2372	101122		
Milford	Close	-	319	428		0	-	-	0
Strayer	Maintain	6-8	868	863		868	-	-	0
New Middle School	New Building on West Pumping Station Road	6-8	0	0		600	-	-	111000
		MIDDLE SCHOOLS		1291	1291	1468	111000		
Freshman Center	Renovate per Facilities Assessment	9	571	410		571	-	-	0
Quakertown High	Maintain	10-12	1455	1247		1455	-	-	0
		HIGH SCHOOLS		1657	1657	2026	0		
District Administration	Sell	-	0	0	0	0	-	-	0
District Administration	Renovate Quakertown Elementary	-	0	0	0	0	-	-	0
Pre-K program	Renovate Haycock	-	0	0	0	0	-	-	0
DISTRICT ADMIN				0	0	0	0		
GRANDTOTAL					5290	5866			212122

OPTION 12

New ES & New MS at West Pumping Station Road & Renovate QES into K-Center

Renovations Per Facility Assessments, District Admin stays in current location

Quakertown Community School District
MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION		CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Revised Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Add and Renovate per Facilities Assessment	K-5	1-5	287	386		350	-	-	4284
Pfaff		Maintain	K-5	1-5	492	457		492	-	-	0
Quakertown		Close-Renovate for K-Center 1/3 Full -day, 2/3 Half day	K-5	Kindergarten	259	269		376	-	-	0
Richland		Renovate per Facilities Assessment	K-5	1-5	384	434		384	-	-	0
Tohickon		Close	K-5	Close	368	389		0	-	-	0
Trumbauersville		Maintain	K-5	1-5	430	407		430	-	-	0
New 1-5 ES		New Building on West Pumping Station Road	-	1-5	0	0		350	-	-	61250
			ELEMENTARY SCHOOLS			2342	2342	2382			65534
Milford		Close	-	Close	319	428		0	-	-	0
Strayer		Maintain	6-8	6-8	868	863		868	-	-	0
New Middle School		New Building on West Pumping Station Road	6-8	6-8	0	0		600	-	-	111000
			MIDDLE SCHOOLS			1291	1291	1468			111000
Freshman Center		Renovate per Facilities Assessment	9	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS			1657	1657	2026			0
District Administration		Maintain	-	Admin	0	0	0	0	-	-	0
			-		0	0	0	0	-	-	0
DISTRICT ADMIN						0	0	0			0
GRANDTOTAL							5290	5876			176534

OPTION 13

New ES, New MS & 1/2 K-Center at West Pumping Station Road & Renovate QES into K-Center (1/2 District) & District Admin, Renovations Per Facility Assessments

Quakertown Community School District
MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION		CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED	
			Existing Grade Configuration	Revised Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)	
Neidig		Add and Renovate per Facilities Assessment	K-5	1-5	287	386		350	-	-	4284	
Pfaff		Maintain	K-5	1-5	492	457		492	-	-	0	
Quakertown		Close-Renovate for K-Center & District Admin 1/3 Full -day, 2/3 Half day	K-5	Kindergarten	259	269		188	-	-	0	
Richland		Renovate per Facilities Assessment	K-5	1-5	384	434		384	-	-	0	
Tohickon		Close	K-5	Close	368	389		0	-	-	0	
Trumbauersville		Maintain	K-5	1-5	430	407		430	-	-	0	
New 1-5 (part K-Center)		New Building on West Pumping Station Road	-	1-5 & K-Center	0	0		538	-	-	94150	
			ELEMENTARY SCHOOLS				2342	2342	2382		98434	
Milford		Close	-	Close	319	428		0	-	-	0	
Strayer		Maintain	6-8	6-8	868	863		868	-	-	0	
New Middle School		New Building on West Pumping Station Road	6-8	6-8	0	0		600	-	-	111000	
			MIDDLE SCHOOLS				1291	1291	1468		111000	
Freshman Center		Renovate per Facilities Assessment	9	9	571	410		571	-	-	0	
Quakertown High		Maintain	10-12	10-12	1455	1247		1455	-	-	0	
			HIGH SCHOOLS				1657	1657	2026		0	
District Administration		Close	-	Close	0	0	0	0	-	-	0	
Quakertown Elementary		Renovate part for District Admin	-	District Admin	0	0	0	0	-	-	0	
				DISTRICT ADMIN				0	0	0		0
GRANDTOTAL							5290	5876			209434	

OPTION 14

New K-8 (Second K-Center) at West Pumping Station Road & Renovate QES into K-Center and District Admin, Renovations per Facility Assessment

Quakertown Community School District
MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION		CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Revised Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Add and Renovate per Facilities Assessment	K-5	1-5	287	386		350	-	-	4284
Pfaff		Maintain	K-5	1-5	492	457		492	-	-	0
Quakertown		Close-Renovate for K-Center & District Admin 1/3 Full -day, 2/3 Half day	K-5	Kindergarten	259	269		188	-	-	0
Richland		Renovate per Facilities Assessment	K-5	1-5	384	434		384	-	-	0
Tohickon		Close	K-5	Close	368	389		0	-	-	0
Trumbauersville		Maintain	K-5	1-5	430	407		430	-	-	0
New K-8 (part K-Center)		New Building on West Pumping Station Road	-	1-8 & K-Center	0	0		538	-	-	88770
			ELEMENTARY SCHOOLS				2342	2342	2382	93054	
Milford		Close	-	Close	319	428		0	-	-	0
Strayer		Maintain	6-8	6-8	868	863		868	-	-	0
New K-8		New Building on West Pumping Station Road	6-8	1-8	0	0		600	-	-	105000
			MIDDLE SCHOOLS				1291	1291	1468	105000	
Freshman Center		Renovate per Facilities Assessment	9	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS				1657	1657	2026	0	
District Administration		Close	-	Close	0	0	0	0	-	-	0
Quakertown Elementary		Renovate part for District Admin	-	District Admin	0	0	0	0	-	-	0
DISTRICT ADMIN						0	0	0	0		
GRANDTOTAL							5290	5876	198054		

OPTION 15

New 1-8 at West Pumping Station Road & Renovate QES into K-Center

Renovations per Facility Assessment, District Admin stays in current location

Quakertown Community School District
MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION		CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Revised Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Add and Renovate per Facilities Assessment. Add core space	K-5	1-5	287	386		375	-	-	11800
Pfaff		Maintain	K-5	1-5	492	457		492	-	-	0
Quakertown		Close-Renovate for K-Center 1/3 Full -day, 2/3 Half day	K-5	Kindergarten	259	269		376	-	-	0
Richland		Renovate per Facilities Assessment. Add core space.	K-5	1-5	384	434		384	-	-	5000
Tohickon		Close	K-5	Close	368	389		0	-	-	0
Trumbauersville		Maintain	K-5	1-5	430	407		430	-	-	0
New 1-8		New Building on West Pumping Station Road	-	1-8	0	0		375	-	-	61875
			ELEMENTARY SCHOOLS			2342	2342	2432			78675
Milford		Close	-	Close	319	428		0	-	-	0
Strayer		Maintain	6-8	6-8	868	863		868	-	-	0
New 1-8		New Building on West Pumping Station Road	6-8	1-8	0	0		600	-	-	105000
			MIDDLE SCHOOLS			1291	1291	1468			105000
Freshman Center		Renovate per Facilities Assessment	9	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS			1657	1657	2026			0
District Administration		Maintain	-	District Admin	0	0	0	0	-	-	0
			-		0	0	0	0	-	-	0
			DISTRICT ADMIN			0	0	0			0
GRANDTOTAL							5290	5926			183675

OPTION 16

New ES, New MS at West Pumping Station Road & Renovate QES into K-Center (1/2 District)
& District Admin, west bldgs with K, Renovations Per Facility Assessments

Quakertown Community School District
MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION		CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Revised Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Add and Renovate per Facilities Assessment	K-5	1-5	287	386		350	-	-	4284
Pfaff		Maintain	K-5	K-5	492	457		492	-	-	0
Quakertown		Close-Renovate for K-Center & District Admin 1/3 Full -day, 2/3 Half day	K-5	Kindergarten	259	269		188	-	-	0
Richland		Renovate per Facilities Assessment	K-5	1-5	384	434		384	-	-	0
Tohickon		Close	K-5	Close	368	389		0	-	-	0
Trumbauersville		Maintain	K-5	K-5	430	407		430	-	-	0
New K-5		New Building on West Pumping Station Road	-	K-5	0	0		500	-	-	87500
			ELEMENTARY SCHOOLS			2342	2342	2344			91784
Milford		Close	-	Close	319	428		0	-	-	0
Strayer		Maintain	6-8	6-8	868	863		868	-	-	0
New Middle School		New Building on West Pumping Station Road	6-8	6-8	0	0		600	-	-	111000
			MIDDLE SCHOOLS			1291	1291	1468			111000
Freshman Center		Renovate per Facilities Assessment	9	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS			1657	1657	2026			0
District Administration		Close	-	Close	0	0	0	0	-	-	0
Quakertown Elementary		Renovate part for District Admin	-	District Admin	0	0	0	0	-	-	0
			DISTRICT ADMIN			0	0	0			0
GRANDTOTAL							5290	5838			202784

OPTION 17

New K-8 at West Pumping Station Road & Renovate QES into K-Center (1/2 District)

& District Admin, west bldgs with K, Renovations Per Facility Assessments

Quakertown Community School District
 MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION		CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
			Existing Grade Configuration	Revised Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig		Add and Renovate per Facilities Assessment	K-5	1-5	287	386		350	-	-	4284
Pfaff		Maintain	K-5	K-5	492	457		492	-	-	0
Quakertown		Close-Renovate for K-Center & District Admin 1/3 Full -day, 2/3 Half day	K-5	Kindergarten	259	269		188	-	-	0
Richland		Renovate per Facilities Assessment	K-5	1-5	384	434		384	-	-	0
Tohickon		Close	K-5	Close	368	389		0	-	-	0
Trumbauersville		Maintain	K-5	K-5	430	407		430	-	-	0
New K-8		New Building on West Pumping Station Road	-	K-8	0	0		500	-	-	82500
			ELEMENTARY SCHOOLS			2342	2342	2344			86784
Milford		Close	-	Close	319	428		0	-	-	0
Strayer		Maintain	6-8	6-8	868	863		868	-	-	0
New K-8		New Building on West Pumping Station Road	6-8	K-8	0	0		600	-	-	105000
			MIDDLE SCHOOLS			1291	1291	1468			105000
Freshman Center		Renovate per Facilities Assessment	9	9	571	410		571	-	-	0
Quakertown High		Maintain	10-12	10-12	1455	1247		1455	-	-	0
			HIGH SCHOOLS			1657	1657	2026			0
District Administration		Close	-	Close	0	0	0	0	-	-	0
Quakertown Elementary		Renovate part for District Admin	-	District Admin	0	0	0	0	-	-	0
			DISTRICT ADMIN			0	0	0			0
GRANDTOTAL							5290	5838			191784

OPTION 18

New Middle School at West Pumping Station Road, add to Neidig, Richland and QE, Renovations Per Facility Assessments

Quakertown Community School District
MASTER PLANNING

BUILDING		PROJECTS	GRADE CONFIGURATION		CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED	
			Existing Grade Configuration	Revised Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)	
Neidig		Add and Renovate per Facilities Assessment	K-5	K-5	287	386		475	-	-	17000	
Pfaff		Maintain	K-5	K-5	492	457		492	-	-	0	
Quakertown		Add and Renovate per Facilities Assessment	K-5	K-5	259	269		475	-	-	18700	
Richland		Add and Renovate per Facilities Assessment	K-5	K-5	384	434		475	-	-	6800	
Tohickon		Close	K-5	Close	368	389		0	-	-	0	
Trumbauersville		Add and Renovate per Facilities Assessment	K-5	K-5	430	407		475	-	-	3400	
		-	-	-	0	0		0	-	-	0	
			ELEMENTARY SCHOOLS			2342	2342	2392				45900
Milford		Close	6-8	Close	319	428		0	-	-	0	
Strayer		Maintain	6-8	6-8	868	863		868	-	-	0	
New Middle School		New Building on West Pumping Station Road	-	6-8	0	0		600	-	-	111000	
			MIDDLE SCHOOLS			1291	1291	1468				111000
Freshman Center		Renovate per Facilities Assessment	9	9	571	410		571	-	-	0	
Quakertown High		Maintain	10-12	10-12	1455	1247		1455	-	-	0	
			HIGH SCHOOLS			1657	1657	2026				0
District Administration		Maintain	-	Maintain	0	0	0	0	-	-	0	
		-	-	-	0	0	0	0	-	-	0	
DISTRICT ADMIN						0	0	0				0
GRANDTOTAL							5290	5886				156900

OPTION 19

New 1-8 & New Western K-Center at West Pumping Station Road, Renovate QES into Eastern K-Center (& WOW & Pre-K), Renovations per Facility Assessment, District Admin stays in current location

Quakertown Community School District
MASTER PLANNING

BUILDING	PROJECTS	GRADE CONFIGURATION		CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
		Existing Grade Configuration	Revised Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig	Add and Renovate per Facilities Assessment	K-5	1-5	287	386		375	-	-	6800
Pfaff	Maintain	K-5	1-5	492	457		492	-	-	0
Quakertown	Close-Renovate for Eastern K-Center, WOW Program & Pre-K 1/3 Full -day, 2/3 Half day	K-5	Kindergarten	259	269		188	-	-	0
Richland	Renovate per Facilities Assessment	K-5	1-5	384	434		384	-	-	0
Tohickon	Close	K-5	Close	368	389		0	-	-	0
Trumbauersville	Maintain	K-5	1-5	430	407		430	-	-	0
New 1-8	New Building on West Pumping Station Road	-	1-8	0	0		375	-	-	61875
New Western K-Center	New Building on West Pumping Station Road	-	Kindergarten	0	0		188	-	-	25380
		ELEMENTARY SCHOOLS			2342	2342	2432	94055		
Milford	Close	-	Close	319	428		0	-	-	0
Strayer	Maintain	6-8	6-8	868	863		868	-	-	0
New 1-8	New Building on West Pumping Station Road	6-8	1-8	0	0		600	-	-	105000
		MIDDLE SCHOOLS			1291	1291	1468	105000		
Freshman Center	Renovate per Facilities Assessment	9	9	571	410		571	-	-	0
Quakertown High	Maintain	10-12	10-12	1455	1247		1455	-	-	0
		HIGH SCHOOLS			1657	1657	2026	0		
District Administration	Maintain	-	District Admin	0	0	0	0	-	-	0
		-		0	0	0	0	-	-	0
DISTRICT ADMIN					0	0	0	0		
GRANDTOTAL						5290	5926			199055

OPTION 20

New K or 1-5 at West Pumping Station Road w/ Infrastructure for MS

Renovations per Facility Assessment, District Admin stays in current location

Quakertown Community School District

MASTER PLANNING

BUILDING	PROJECTS	GRADE CONFIGURATION		CURRENT CAPACITY	ENROLLMENT & DEMOGRAPHICS		CAPACITIES	MASTER PLANNING DATES		NEW SPACE REQUIRED
		Existing Grade Configuration	Revised Grade Configuration	Current Capacity (using QCSD standards)	Current Enrollment	Maximum population per demographic study	Revised and Reconfigured Capacity	Design Dates	Construction Dates	Total Additional Space (approximately) (square feet)
Neidig	Add and Renovate per Facilities Assessment. Add core space	K-5	K-5	287	386		600	-	-	28800
Pfaff	Maintain	K-5	K-5	492	457		492	-	-	0
Quakertown	Maintain for the moment (future as an academic or administrative facility)	K-5	K-5	259	269		259	-	-	0
Richland	Renovate per Facilities Assessment. Add core space.	K-5	K-5	384	434		384	-	-	5000
Tohickon	Close	K-5	Close	368	389		0	-	-	0
Trumbauersville	Maintain	K-5	K-5	430	407		430	-	-	0
New K or 1-5	New Building on West Pumping Station Road	-	K-5	0	0		600	-	-	99000
		ELEMENTARY SCHOOLS				2342	2342	2765		132800
Milford	Maintain for the moment	6-8	6-8	319	428		319	-	-	0
Strayer	Maintain	6-8	6-8	868	863		868	-	-	0
New 6-8 at a later date	New Building on West Pumping Station Road when Milford is ready to close	6-8	6-8	0	0		600	-	-	105000
		MIDDLE SCHOOLS				1291	1291	1787		105000
Freshman Center	Renovate per Facilities Assessment	9	9	571	410		571	-	-	0
Quakertown High	Maintain	10-12	10-12	1455	1247		1455	-	-	0
		HIGH SCHOOLS				1657	1657	2026		0
District Administration	Maintain	-	District Admin	0	0	0	0	-	-	0
		-		0	0	0	0	-	-	0
DISTRICT ADMIN						0	0	0		0
GRANDTOTAL							5290	6577.6		237800

CONCEPTUAL BUDGET ESTIMATES

INTRODUCTION

This section provides a conceptual estimate for a number of the Options presented in Section 4. The Committee decided that while not all Options were worthy of further investigation, a number of them were and as a result, budget estimates were provided for each of those options. Estimates were provided for Options; 9, 12, 13, 14, 15, 16, 17, 18, 19, and 20.

The estimates should be taken as order-of-magnitude estimates at this very preliminary stage. No true design has been derived and evaluations of the buildings have been made from team walk-throughs only. Costs are based upon square foot and lump sum amounts per line item.

While escalation has fluctuated in recent years, we believe it has stabilized and so originally, while these studies were being completed we showed a 3% inflation factor annually (assuming 8%-10% total average for all projects combined). Note that as the District elects to proceed with a certain option it may be more prudent to include a 5% annual inflation rate since the market has become somewhat saturated with work. We may find that once a design is derived for each of these options that square footage costs are higher than anticipated. If that is the case the District should adjust accordingly as time goes on.

Section 7 provides a basic renovation cost for each of the buildings based upon merely repairing and updating systems as they are needed per the site evaluations. This section combines those costs with the costs for new construction that may be required for the various capacities and includes contingencies and soft costs related to each project cost.

A potential Master Plan implementation schedule and conceptual draw schedule are provided in this section for the use of financial planning. That schedule has costs assigned appropriate to the implementation of each of the portions of the various projects. It should be noted that the draw schedule does not include all projects anticipated in Option 20, rather the projects the District anticipates developing in the early phases.

It must be emphasized that Option 20 is shown as most expensive because it shows all of the work that could happen. In other words, it shows both a new elementary and new middle school yet does not remove expansion work at Neidig or Quakertown Elementary should the elementary population not require one of those buildings to be operational. In other words, we are showing an excess of capacity available in the district to support whatever decision the Board might make in the future.

Specific and detailed cost estimates for the various areas of work within each option are provided in the information that follows. The costs indicated on those worksheets are included in the summary of options included on page 5-2 and all other estimates provided in this section.

SUMMARY OF OPTIONS

CONCEPTUAL BUDGET ESTIMATE

OPTION	RENOVATION ADDITION ESTIMATED IMPROVEMENT COSTS	NEW CONSTRUCTION ESTIMATED IMPROVEMENT COSTS	TOTAL
OPTION 9	\$56,223,630	\$55,888,625	\$108,265,620
OPTION 12	\$40,437,600	\$74,375,844	\$108,606,133
OPTION 13	\$39,935,930	\$86,725,681	\$118,877,321
OPTION 14	\$39,935,930	\$81,885,221	\$114,654,950
OPTION 15	\$45,715,725	\$38,094,063	\$82,270,293
OPTION 16	\$39,935,930	\$84,229,438	\$116,699,829
OPTION 17	\$39,935,930	\$80,100,313	\$113,097,961
OPTION 18	\$53,461,130	\$55,888,625	\$105,503,120
OPTION 19	\$41,255,300	\$81,885,221	\$115,974,320
OPTION 20 - INTERIM	\$51,240,725	\$87,789,000	\$134,434,482

Timeline modified: 10/25/16

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SCHRADERGROUP architecture, LLC
architecture | planning | programming

Master Plan Draw Schedule - Option 20

3-Nov-16

	BOND ISSUE PROJECTS										TOTAL BOND ISSUE PROJECTS	CAPITAL PROJECTS										TOTAL CAPITAL PROJECTS	TOTAL PROJECT COSTS
	West Pumping Station Road New K-5 Elementary		Nedig Elementary		Quakerstown Elementary		Richard Elementary		West Pumping Station Road New 6-8 Middle School			Category 1		Category 2		Category 3		Category 4					
	Design	Constr	Design	Constr	Design	Constr	Design	Constr	Design	Constr		Design	Constr	Design	Constr	Design	Constr	Design	Constr				
YEAR 1	\$ 1,682,463										\$ 1,682,463	\$ 284,717						\$ 284,717		\$ 284,717	\$ 1,967,180		
YEAR 2	\$ 5,047,388										\$ 5,047,388	\$ 379,623	\$ 1,581,762					\$ 1,961,385		\$ 1,961,385	\$ 7,008,773		
YEAR 3	\$ 841,231	\$ 19,113,438									\$ 19,954,669	\$ 284,717	\$ 1,581,762	\$ 460,914				\$ 2,327,393		\$ 2,327,393	\$ 22,282,062		
YEAR 4	\$ 841,231	\$ 15,290,750	\$ 1,827,614								\$ 17,959,596			\$ 614,552	\$ 2,560,635			\$ 3,175,187		\$ 3,175,187	\$ 21,134,783		
YEAR 5		\$ 3,822,688	\$ 1,370,711	\$ 7,615,060							\$ 12,808,458			\$ 460,914	\$ 2,560,635	\$ 220,833		\$ 3,242,382		\$ 3,242,382	\$ 16,050,840		
YEAR 6			\$ 1,370,711	\$ 7,615,060	\$ 1,254,264						\$ 10,240,034					\$ 294,444	\$ 1,226,850	\$ 1,521,293		\$ 1,521,293	\$ 11,761,328		
YEAR 7					\$ 940,698	\$ 5,226,100					\$ 6,166,798					\$ 220,833	\$ 1,226,850	\$ 51,166		\$ 1,498,848	\$ 7,665,646		
YEAR 8					\$ 940,698	\$ 5,226,100	\$ 291,195				\$ 6,457,993							\$ 68,221	\$ 284,253	\$ 352,474	\$ 6,810,467		
YEAR 9							\$ 218,396	\$ 1,213,312			\$ 1,431,708							\$ 51,166	\$ 284,253	\$ 335,419	\$ 1,767,127		
YEAR 10							\$ 218,396	\$ 1,213,312	\$ 1,450,289		\$ 2,881,997									\$ -	\$ 2,881,997		
YEAR 11									\$ 4,350,866	\$ 14,651,563	\$ 19,002,429									\$ -	\$ 19,002,429		
YEAR 12									\$ 725,144	\$ 11,721,250	\$ 12,446,394									\$ -	\$ 12,446,394		
YEAR 13									\$ 725,144	\$ 2,930,313	\$ 3,655,457									\$ -	\$ 3,655,457		
	\$ 8,412,314	\$ 38,226,875	\$ 4,569,036	\$ 15,230,119	\$ 3,135,660	\$ 10,452,200	\$ 727,987	\$ 2,426,624	\$ 7,251,444	\$ 29,303,125	\$ 119,735,383	\$ 949,057	\$ 3,163,524	\$ 1,536,381	\$ 5,121,270	\$ 736,110	\$ 2,453,699	\$ 170,552	\$ 568,506	\$ 14,699,099	\$ 134,434,482		

CONCEPTUAL ESTIMATES

Options 9 and 12-20

OPTION 9

CONCEPTUAL BUDGET ESTIMATE

BUILDING	RENOVATION/ ADDITION BUDGET PROJECT COST	NEW CONSTRUCTION BUDGET PROJECT COST	SOFT COSTS	TOTAL COSTS
NEIDIG ELEMENTARY	\$13,980,119	\$0	\$4,194,036	\$18,174,155
PFAFF ELEMENTARY	\$764,978	\$0	\$229,493	\$994,471
QUAKERTOWN ELEMENTARY	\$8,686,080	\$0	\$2,605,824	\$11,291,904
RICHLAND ELEMENTARY	\$5,176,624	\$0	\$1,552,987	\$6,729,611
TOHICKON VALLEY ELEMENTARY	\$0	\$0	\$0	\$0
TRUMBAUERSVILLE ELEMENTARY	\$7,838,974	\$0	\$2,351,692	\$10,190,666
MILFORD MIDDLE SCHOOL	\$0	\$0	\$0	\$0
STRAYER MIDDLE SCHOOL	\$935,959	\$0	\$280,788	\$1,216,747
FRESHMAN CENTER	\$4,649,032	\$0	\$1,394,710	\$6,043,742
HIGH SCHOOL	\$0	\$0	\$0	\$0
EXISTING ADMIN BLDG	\$0	\$0	\$0	\$0
STADIUM & GARAGE	\$1,217,180	\$0	\$365,154	\$1,582,334
NEW BUILDING(S)	\$0	\$42,991,250	\$9,050,740	\$52,041,990
TOTAL OPTION 9	\$43,248,946	\$42,991,250	\$22,025,424	\$108,265,620

OPTION 12

CONCEPTUAL BUDGET ESTIMATE

BUILDING	RENOVATION/ ADDITION BUDGET PROJECT COST	NEW CONSTRUCTION BUDGET PROJECT COST	SOFT COSTS	TOTAL COSTS
NEIDIG ELEMENTARY	\$9,101,119	\$0	\$2,730,336	\$11,831,455
PFAFF ELEMENTARY	\$764,978	\$0	\$229,493	\$994,471
QUAKERTOWN ELEMENTARY	\$8,686,080	\$0	\$2,605,824	\$11,291,904
RICHLAND ELEMENTARY	\$926,624	\$0	\$277,987	\$1,204,611
TOHICKON VALLEY ELEMENTARY	\$0	\$0	\$0	\$0
TRUMBAUERSVILLE ELEMENTARY	\$4,438,974	\$0	\$1,331,692	\$5,770,666
MILFORD MIDDLE SCHOOL	\$0	\$0	\$0	\$0
STRAYER MIDDLE SCHOOL	\$935,959	\$0	\$280,788	\$1,216,747
FRESHMAN CENTER	\$4,649,032	\$0	\$1,394,710	\$6,043,742
HIGH SCHOOL	\$0	\$0	\$0	\$0
EXISTING ADMIN BLDG	\$385,900	\$0	\$115,770	\$501,670
STADIUM & GARAGE	\$1,217,180	\$0	\$365,154	\$1,582,334
NEW BUILDING(S)	\$0	\$57,212,188	\$10,956,346	\$68,168,533
TOTAL OPTION 12	\$31,105,846	\$57,212,188	\$20,288,099	\$108,606,133

OPTION 13

CONCEPTUAL BUDGET ESTIMATE

BUILDING	RENOVATION/ ADDITION BUDGET PROJECT COST	NEW CONSTRUCTION BUDGET PROJECT COST	SOFT COSTS	TOTAL COSTS
NEIDIG ELEMENTARY	\$9,101,119	\$0	\$2,730,336	\$11,831,455
PFAFF ELEMENTARY	\$764,978	\$0	\$229,493	\$994,471
QUAKERTOWN ELEMENTARY	\$8,686,080	\$0	\$2,605,824	\$11,291,904
RICHLAND ELEMENTARY	\$926,624	\$0	\$277,987	\$1,204,611
TOHICKON VALLEY ELEMENTARY	\$0	\$0	\$0	\$0
TRUMBAUERSVILLE ELEMENTARY	\$4,438,974	\$0	\$1,331,692	\$5,770,666
MILFORD MIDDLE SCHOOL	\$0	\$0	\$0	\$0
STRAYER MIDDLE SCHOOL	\$935,959	\$0	\$280,788	\$1,216,747
FRESHMAN CENTER	\$4,649,032	\$0	\$1,394,710	\$6,043,742
HIGH SCHOOL	\$0	\$0	\$0	\$0
EXISTING ADMIN BLDG	\$0	\$0	\$0	\$0
STADIUM & GARAGE	\$1,217,180	\$0	\$365,154	\$1,582,334
NEW BUILDING(S)	\$0	\$66,712,063	\$12,229,329	\$78,941,391
TOTAL OPTION 13	\$30,719,946	\$66,712,063	\$21,445,313	\$118,877,321

OPTION 14

CONCEPTUAL BUDGET ESTIMATE

BUILDING	RENOVATION/ ADDITION BUDGET PROJECT COST	NEW CONSTRUCTION BUDGET PROJECT COST	SOFT COSTS	TOTAL COSTS
NEIDIG ELEMENTARY	\$9,101,119	\$0	\$2,730,336	\$11,831,455
PFAFF ELEMENTARY	\$764,978	\$0	\$229,493	\$994,471
QUAKERTOWN ELEMENTARY	\$8,686,080	\$0	\$2,605,824	\$11,291,904
RICHLAND ELEMENTARY	\$926,624	\$0	\$277,987	\$1,204,611
TOHICKON VALLEY ELEMENTARY	\$0	\$0	\$0	\$0
TRUMBAUERSVILLE ELEMENTARY	\$4,438,974	\$0	\$1,331,692	\$5,770,666
MILFORD MIDDLE SCHOOL	\$0	\$0	\$0	\$0
STRAYER MIDDLE SCHOOL	\$935,959	\$0	\$280,788	\$1,216,747
FRESHMAN CENTER	\$4,649,032	\$0	\$1,394,710	\$6,043,742
HIGH SCHOOL	\$0	\$0	\$0	\$0
EXISTING ADMIN BLDG	\$0	\$0	\$0	\$0
STADIUM & GARAGE	\$1,217,180	\$0	\$365,154	\$1,582,334
NEW BUILDING(S)	\$0	\$62,988,631	\$11,730,389	\$74,719,020
TOTAL OPTION 14	\$30,719,946	\$62,988,631	\$20,946,373	\$114,654,950

OPTION 15

CONCEPTUAL BUDGET ESTIMATE

BUILDING	RENOVATION/ ADDITION BUDGET PROJECT COST	NEW CONSTRUCTION BUDGET PROJECT COST	SOFT COSTS	TOTAL COSTS
NEIDIG ELEMENTARY	\$10,980,119	\$0	\$3,294,036	\$14,274,155
PFAFF ELEMENTARY	\$764,978	\$0	\$229,493	\$994,471
QUAKERTOWN ELEMENTARY	\$10,452,200	\$0	\$3,135,660	\$13,587,860
RICHLAND ELEMENTARY	\$2,426,624	\$0	\$727,987	\$3,154,611
TOHICKON VALLEY ELEMENTARY	\$0	\$0	\$0	\$0
TRUMBAUERSVILLE ELEMENTARY	\$3,239,134	\$0	\$971,740	\$4,210,874
MILFORD MIDDLE SCHOOL	\$0	\$0	\$0	\$0
STRAYER MIDDLE SCHOOL	\$935,959	\$0	\$280,788	\$1,216,747
FRESHMAN CENTER	\$4,649,032	\$0	\$1,394,710	\$6,043,742
HIGH SCHOOL	\$0	\$0	\$0	\$0
EXISTING ADMIN BLDG	\$385,900	\$0	\$115,770	\$501,670
STADIUM & GARAGE	\$1,331,996	\$0	\$399,599	\$1,731,595
NEW BUILDING(S)	\$0	\$29,303,125	\$7,251,444	\$36,554,569
TOTAL OPTION 15	\$35,165,942	\$29,303,125	\$17,801,226	\$82,270,293

OPTION 16

CONCEPTUAL BUDGET ESTIMATE

BUILDING	RENOVATION/ ADDITION BUDGET PROJECT COST	NEW CONSTRUCTION BUDGET PROJECT COST	SOFT COSTS	TOTAL COSTS
NEIDIG ELEMENTARY	\$9,101,119	\$0	\$2,730,336	\$11,831,455
PFAFF ELEMENTARY	\$764,978	\$0	\$229,493	\$994,471
QUAKERTOWN ELEMENTARY	\$8,686,080	\$0	\$2,605,824	\$11,291,904
RICHLAND ELEMENTARY	\$926,624	\$0	\$277,987	\$1,204,611
TOHICKON VALLEY ELEMENTARY	\$0	\$0	\$0	\$0
TRUMBAUERSVILLE ELEMENTARY	\$4,438,974	\$0	\$1,331,692	\$5,770,666
MILFORD MIDDLE SCHOOL	\$0	\$0	\$0	\$0
STRAYER MIDDLE SCHOOL	\$935,959	\$0	\$280,788	\$1,216,747
FRESHMAN CENTER	\$4,649,032	\$0	\$1,394,710	\$6,043,742
HIGH SCHOOL	\$0	\$0	\$0	\$0
EXISTING ADMIN BLDG	\$0	\$0	\$0	\$0
STADIUM & GARAGE	\$1,217,180	\$0	\$365,154	\$1,582,334
NEW BUILDING(S)	\$0	\$64,791,875	\$11,972,024	\$76,763,899
TOTAL OPTION 16	\$30,719,946	\$64,791,875	\$21,188,008	\$116,699,829

OPTION 17

CONCEPTUAL BUDGET ESTIMATE

BUILDING	RENOVATION/ ADDITION BUDGET PROJECT COST	NEW CONSTRUCTION BUDGET PROJECT COST	SOFT COSTS	TOTAL COSTS
NEIDIG ELEMENTARY	\$9,101,119	\$0	\$2,730,336	\$11,831,455
PFAFF ELEMENTARY	\$764,978	\$0	\$229,493	\$994,471
QUAKERTOWN ELEMENTARY	\$8,686,080	\$0	\$2,605,824	\$11,291,904
RICHLAND ELEMENTARY	\$926,624	\$0	\$277,987	\$1,204,611
TOHICKON VALLEY ELEMENTARY	\$0	\$0	\$0	\$0
TRUMBAUERSVILLE ELEMENTARY	\$4,438,974	\$0	\$1,331,692	\$5,770,666
MILFORD MIDDLE SCHOOL	\$0	\$0	\$0	\$0
STRAYER MIDDLE SCHOOL	\$935,959	\$0	\$280,788	\$1,216,747
FRESHMAN CENTER	\$4,649,032	\$0	\$1,394,710	\$6,043,742
HIGH SCHOOL	\$0	\$0	\$0	\$0
EXISTING ADMIN BLDG	\$0	\$0	\$0	\$0
STADIUM & GARAGE	\$1,217,180	\$0	\$365,154	\$1,582,334
NEW BUILDING(S)	\$0	\$61,615,625	\$11,546,406	\$73,162,031
TOTAL OPTION 17	\$30,719,946	\$61,615,625	\$20,762,390	\$113,097,961

OPTION 18

CONCEPTUAL BUDGET ESTIMATE

BUILDING	RENOVATION/ ADDITION BUDGET PROJECT COST	NEW CONSTRUCTION BUDGET PROJECT COST	SOFT COSTS	TOTAL COSTS
NEIDIG ELEMENTARY	\$12,280,119	\$0	\$3,684,036	\$15,964,155
PFAFF ELEMENTARY	\$764,978	\$0	\$229,493	\$994,471
QUAKERTOWN ELEMENTARY	\$13,361,080	\$0	\$4,008,324	\$17,369,404
RICHLAND ELEMENTARY	\$2,626,624	\$0	\$787,987	\$3,414,611
TOHICKON VALLEY ELEMENTARY	\$0	\$0	\$0	\$0
TRUMBAUERSVILLE ELEMENTARY	\$5,288,974	\$0	\$1,586,692	\$6,875,666
MILFORD MIDDLE SCHOOL	\$0	\$0	\$0	\$0
STRAYER MIDDLE SCHOOL	\$935,959	\$0	\$280,788	\$1,216,747
FRESHMAN CENTER	\$4,649,032	\$0	\$1,394,710	\$6,043,742
HIGH SCHOOL	\$0	\$0	\$0	\$0
EXISTING ADMIN BLDG	\$0	\$0	\$0	\$0
STADIUM & GARAGE	\$1,217,180	\$0	\$365,154	\$1,582,334
NEW BUILDING(S)	\$0	\$42,991,250	\$9,050,740	\$52,041,990
TOTAL OPTION 18	\$41,123,946	\$42,991,250	\$21,387,924	\$105,503,120

OPTION 19

CONCEPTUAL BUDGET ESTIMATE

BUILDING	RENOVATION/ ADDITION BUDGET PROJECT COST	NEW CONSTRUCTION BUDGET PROJECT COST	SOFT COSTS	TOTAL COSTS
NEIDIG ELEMENTARY	\$9,730,119	\$0	\$2,919,036	\$12,649,155
PFAFF ELEMENTARY	\$764,978	\$0	\$229,493	\$994,471
QUAKERTOWN ELEMENTARY	\$8,686,080	\$0	\$2,605,824	\$11,291,904
RICHLAND ELEMENTARY	\$926,624	\$0	\$277,987	\$1,204,611
TOHICKON VALLEY ELEMENTARY	\$0	\$0	\$0	\$0
TRUMBAUERSVILLE ELEMENTARY	\$4,438,974	\$0	\$1,331,692	\$5,770,666
MILFORD MIDDLE SCHOOL	\$0	\$0	\$0	\$0
STRAYER MIDDLE SCHOOL	\$935,959	\$0	\$280,788	\$1,216,747
FRESHMAN CENTER	\$4,649,032	\$0	\$1,394,710	\$6,043,742
HIGH SCHOOL	\$0	\$0	\$0	\$0
EXISTING ADMIN BLDG	\$385,900	\$0	\$115,770	\$501,670
STADIUM & GARAGE	\$1,217,180	\$0	\$365,154	\$1,582,334
NEW BUILDING(S)	\$0	\$62,988,631	\$11,730,389	\$74,719,020
TOTAL OPTION 19	\$31,734,846	\$62,988,631	\$21,250,843	\$115,974,320

OPTION 20 - INTERIM

CONCEPTUAL BUDGET ESTIMATE

BUILDING	RENOVATION/ ADDITION BUDGET PROJECT COST	NEW CONSTRUCTION BUDGET PROJECT COST	SOFT COSTS	TOTAL COSTS
NEIDIG ELEMENTARY	\$15,230,119	\$0	\$4,569,036	\$19,799,155
PFAFF ELEMENTARY	\$764,978	\$0	\$229,493	\$994,471
QUAKERTOWN ELEMENTARY	\$10,452,200	\$0	\$3,135,660	\$13,587,860
RICHLAND ELEMENTARY	\$2,426,624	\$0	\$727,987	\$3,154,611
TOHICKON VALLEY ELEMENTARY	\$0	\$0	\$0	\$0
TRUMBAUERSVILLE ELEMENTARY	\$3,239,134	\$0	\$971,740	\$4,210,874
MILFORD MIDDLE SCHOOL	\$0	\$0	\$0	\$0
STRAYER MIDDLE SCHOOL	\$935,959	\$0	\$280,788	\$1,216,747
FRESHMAN CENTER	\$4,649,032	\$0	\$1,394,710	\$6,043,742
HIGH SCHOOL	\$0	\$0	\$0	\$0
EXISTING ADMIN BLDG	\$385,900	\$0	\$115,770	\$501,670
STADIUM & GARAGE	\$1,331,996	\$0	\$399,599	\$1,731,595
NEW K-5 BUILDING	\$0	\$38,226,875	\$8,412,314	\$46,639,189
NEW 6-8 BUILDING	\$0	\$29,303,125	\$7,251,444	\$36,554,569
TOTAL OPTION 20 - INT	\$39,415,942	\$67,530,000	\$27,488,540	\$134,434,482

DETAILED CONCEPTUAL ESTIMATES

New Construction Projects

(as included in previous Conceptual Estimates)

NEW BUILDINGS - W. PUMPING STATION RD

350 Student ES & 600 student school MS

Quakertown Community School District

Bucks County, PA

10/25/2016

New Construction OPTION 12

AREA	Renovation	0 s.f.
	New Construction	172,250 s.f.
	Total Building Area	172,250 s.f.

New Construction BUDGET COST ANALYSIS

Project Phase: Feasibility Study

CONSTRUCTION

BUILDING CONSTRUCTION

	area	cost/s.f.	total
Total Construction Cost Estimate			
1 New Construction	172,250 s.f.	\$250.00	\$ 43,062,500
2 Renovation	0 s.f.	\$0.00	\$0
3 Alteration	0 s.f.	\$0.00	\$0
4 Subtotal		\$250.00	\$ 43,062,500
5 Escalation to 2018 @ (annually)		10%	\$ 4,306,250
6 Design Contingency		5%	\$ 2,368,438
7 Total Building Construction		\$288.75 s.f.	\$ 49,737,188

SITE CONSTRUCTION

	area	cost/s.f.	total
8 Roadway and Utilities	1 l.s.	\$1,500,000.00	\$ 1,500,000
9 Site construction	1 l.s.	\$5,000,000.00	\$ 5,000,000
10 Subtotal		\$37.74	\$ 6,500,000
11 Escalation to 2018 @ (annually)		10%	\$ 650,000
12 Design Contingency		5%	\$ 325,000
13 Total Site Construction Cost Estimate		\$43.40	\$ 7,475,000
14 TOTAL		\$332.15	\$ 57,212,188

DESIGN COSTS

15 A/E Consultant Design Fee @ 6.00%	\$ 2,984,231
16 Expenses	\$ 50,000
17 Civil Engineering/ Land Development Fees	\$ 473,750
18 Geotechnical Investigation	\$ 18,000
19 Land Survey Services	\$ 15,000
20 Inspection/ Testing Services	\$ 100,000
21 Land Development Approvals	\$ 30,000
22 Asbestos Design Services	\$ -
23 Total Design Services	\$ 3,670,981

MISCELLANEOUS COSTS

24 County Conservation District	\$ 5,000
25 Demolition Permit @ 2.00% of cost	\$ 30,000
26 Building Permit @ 2.00% of cost	\$ 1,144,244
27 Other Approvals	\$ 40,000
28 FFE	\$ 650,000
29 Technology Equipment for building	\$ 650,000
30 Financing Costs	\$ 500,000
31 Construction Management	\$ 650,000
32 Legal	\$ 50,000
33 Commissioning	\$ 85,000
34 Insurance	\$ 60,000
35 Move Costs	\$ 75,000
36 Other Misc Costs	\$ 100,000
37 Total Other Costs	\$ 4,039,244

PROJECT CONTINGENCY

38	Subtotal all costs above		\$	64,922,413	
39	Project Contingency	5.00%			\$ 3,246,121

40 Current Conceptual Estimate	\$ 68,168,533
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NEW BUILDINGS - W. PUMPING STATION RD

538 Student ES & K-Center & 600 student school MS

Quakertown Community School District

Bucks County, PA

10/25/2016

New Construction

OPTION 13

AREA	Renovation	0 s.f.
	New Construction	205,150 s.f.
	Total Building Area	205,150 s.f.

New Construction BUDGET COST ANALYSIS

Project Phase: Feasibility Study

CONSTRUCTION

BUILDING CONSTRUCTION

	area	cost/s.f.	total
Total Construction Cost Estimate			
1 New Construction	205,150 s.f.	\$250.00	\$ 51,287,500
2 Renovation	0 s.f.	\$0.00	\$0
3 Alteration	0 s.f.	\$0.00	\$0
4 Subtotal		\$250.00	\$ 51,287,500
5 Escalation to 2018 @ (annually)		10%	\$ 5,128,750
6 Design Contingency		5%	\$ 2,820,813
7 Total Building Construction		\$288.75 s.f.	\$ 59,237,063

SITE CONSTRUCTION

	area	cost/s.f.	total
8 Roadway and Utilities	1 l.s.	\$1,500,000.00	\$ 1,500,000
9 Site construction	1 l.s.	\$5,000,000.00	\$ 5,000,000
10 Subtotal		\$31.68	\$ 6,500,000
11 Escalation to 2018 @ (annually)		10%	\$ 650,000
12 Design Contingency		5%	\$ 325,000
13 Total Site Construction Cost Estimate		\$36.44	\$ 7,475,000
14 TOTAL		\$325.19	\$ 66,712,063

DESIGN COSTS

15 A/E Consultant Design Fee @ 6.00%	\$ 3,554,224
16 Expenses	\$ 50,000
17 Civil Engineering/ Land Development Fees	\$ 473,750
18 Geotechnical Investigation	\$ 18,000
19 Land Survey Services	\$ 15,000
20 Inspection/ Testing Services	\$ 100,000
21 Land Development Approvals	\$ 30,000
22 Asbestos Design Services	\$ -
23 Total Design Services	\$ 4,240,974

MISCELLANEOUS COSTS

24 County Conservation District	\$ 5,000
25 Demolition Permit @ 2.00% of cost	\$ 30,000
26 Building Permit @ 2.00% of cost	\$ 1,334,241
27 Other Approvals	\$ 40,000
28 FFE	\$ 650,000
29 Technology Equipment for building	\$ 650,000
30 Financing Costs	\$ 500,000
31 Construction Management	\$ 650,000
32 Legal	\$ 50,000
33 Commissioning	\$ 85,000
34 Insurance	\$ 60,000
35 Move Costs	\$ 75,000
36 Other Misc Costs	\$ 100,000
37 Total Other Costs	\$ 4,229,241

PROJECT CONTINGENCY

38	Subtotal all costs above		\$	75,182,278	
39	Project Contingency	5.00%			\$ 3,759,114

40 Current Conceptual Estimate	\$ 78,941,391
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NEW BUILDINGS - W. PUMPING STATION RD

1138 Student K-8 Building
Quakertown Community School District
 Bucks County, PA
 10/25/2016

New Construction OPTION 14

AREA	Renovation	0 s.f.
	New Construction	193,770 s.f.
	Total Building Area	193,770 s.f.

New Construction BUDGET COST ANALYSIS

Project Phase: Feasibility Study

CONSTRUCTION

BUILDING CONSTRUCTION

	area	cost/s.f.	total
Total Construction Cost Estimate			
1 New Construction	193,770 s.f.	\$250.00	\$ 48,442,500
2 Renovation	0 s.f.	\$0.00	\$0
3 Alteration	0 s.f.	\$0.00	\$0
4 Subtotal		\$250.00	\$ 48,442,500
5 Escalation to 2018 @ (annually)		10%	\$ 4,844,250
6 Design Contingency		5%	\$ 2,664,338
7 Total Building Construction	\$288.75 s.f.		\$ 55,951,088

SITE CONSTRUCTION

	area	cost/s.f.	total
8 Roadway and Utilities	1 l.s.	\$1,500,000.00	\$ 1,500,000
9 Site construction	1 l.s.	\$5,000,000.00	\$ 5,000,000
10 Subtotal		\$33.54	\$ 6,500,000
11 Escalation to 2018 @ (annually)		10%	\$ 650,000
12 Design Contingency		5%	\$ 325,000
13 Total Site Construction Cost Estimate	\$38.58		\$ 7,475,000
14 TOTAL	\$327.33		\$ 63,426,088

DESIGN COSTS

15 A/E Consultant Design Fee @	6.00%	\$ 3,357,065
16 Expenses		\$ 50,000
17 Civil Engineering/ Land Development Fees		\$ 473,750
18 Geotechnical Investigation		\$ 18,000
19 Land Survey Services		\$ 15,000
20 Inspection/ Testing Services		\$ 100,000
21 Land Development Approvals		\$ 30,000
22 Asbestos Design Services		\$ -
23 Total Design Services		\$ 4,043,815

MISCELLANEOUS COSTS

24 County Conservation District		\$ 5,000
25 Demolition Permit @	2.00% of cost	\$ 30,000
26 Building Permit @	2.00% of cost	\$ 1,268,522
27 Other Approvals		\$ 40,000
28 FFE		\$ 650,000
29 Technology Equipment for building		\$ 650,000
30 Financing Costs		\$ 500,000
31 Construction Management		\$ 650,000
32 Legal		\$ 50,000
33 Commissioning		\$ 85,000
34 Insurance		\$ 60,000
35 Move Costs		\$ 75,000
36 Other Misc Costs		\$ 100,000
37 Total Other Costs		\$ 4,163,522

PROJECT CONTINGENCY

38 Subtotal all costs above		\$ 71,633,425
39 Project Contingency	5.00%	\$ 3,581,671

40 Current Conceptual Estimate		\$ 75,215,096
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NEW BUILDINGS - W. PUMPING STATION RD

950 Student 1-8 Building

Quakertown Community School District

Bucks County, PA

10/25/2016

New Construction

OPTION 15

AREA	Renovation	0 s.f.
	New Construction	166,875 s.f.
	Total Building Area	166,875 s.f.

New Construction BUDGET COST ANALYSIS

Project Phase: Feasibility Study

CONSTRUCTION

BUILDING CONSTRUCTION

	area	cost/s.f.	total
Total Construction Cost Estimate			
1 New Construction	166,875 s.f.	\$250.00	\$ 41,718,750
2 Renovation	0 s.f.	\$0.00	\$0
3 Alteration	0 s.f.	\$0.00	\$0
4 Subtotal		\$250.00	\$ 41,718,750
5 Escalation to 2018 @ (annually)		10%	\$ 4,171,875
6 Design Contingency		5%	\$ 2,294,531
7 Total Building Construction		\$288.75 s.f.	\$ 48,185,156

SITE CONSTRUCTION

	area	cost/s.f.	total
8 Roadway and Utilities	1 l.s.	\$1,500,000.00	\$ 1,500,000
9 Site construction	1 l.s.	\$5,000,000.00	\$ 5,000,000
10 Subtotal		\$38.95	\$ 6,500,000
11 Escalation to 2018 @ (annually)		10%	\$ 650,000
12 Design Contingency		5%	\$ 325,000
13 Total Site Construction Cost Estimate		\$44.79	\$ 7,475,000
14 TOTAL		\$333.54	\$ 55,660,156

DESIGN COSTS

15 A/E Consultant Design Fee @	6.00%	\$ 2,891,109
16 Expenses		\$ 50,000
17 Civil Engineering/ Land Development Fees		\$ 473,750
18 Geotechnical Investigation		\$ 18,000
19 Land Survey Services		\$ 15,000
20 Inspection/ Testing Services		\$ 100,000
21 Land Development Approvals		\$ 30,000
22 Asbestos Design Services		\$ -
23 Total Design Services		\$ 3,577,859

MISCELLANEOUS COSTS

24 County Conservation District		\$ 5,000
25 Demolition Permit @	2.00% of cost	\$ 30,000
26 Building Permit @	2.00% of cost	\$ 1,113,203
27 Other Approvals		\$ 40,000
28 FFE		\$ 650,000
29 Technology Equipment for building		\$ 650,000
30 Financing Costs		\$ 500,000
31 Construction Management		\$ 650,000
32 Legal		\$ 50,000
33 Commissioning		\$ 85,000
34 Insurance		\$ 60,000
35 Move Costs		\$ 75,000
36 Other Misc Costs		\$ 100,000
37 Total Other Costs		\$ 4,008,203

PROJECT CONTINGENCY

38 Subtotal all costs above		\$ 63,246,219
39 Project Contingency	5.00%	\$ 3,162,311

40 Current Conceptual Estimate		\$ 66,408,530
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NEW BUILDINGS - W. PUMPING STATION RD

500 Student ES & 600 student school MS

Quakertown Community School District

Bucks County, PA

10/25/2016

New Construction

OPTION 16

AREA	Renovation	0 s.f.
	New Construction	198,500 s.f.
	Total Building Area	198,500 s.f.

New Construction BUDGET COST ANALYSIS

Project Phase: Feasibility Study

CONSTRUCTION

BUILDING CONSTRUCTION

	area	cost/s.f.	total
Total Construction Cost Estimate			
1 New Construction	198,500 s.f.	\$250.00	\$ 49,625,000
2 Renovation	0 s.f.	\$0.00	\$0
3 Alteration	0 s.f.	\$0.00	\$0
4 Subtotal		\$250.00	\$ 49,625,000
5 Escalation to 2018 @ (annually)		10%	\$ 4,962,500
6 Design Contingency		5%	\$ 2,729,375
7 Total Building Construction		\$288.75 s.f.	\$ 57,316,875

SITE CONSTRUCTION

	area	cost/s.f.	total
8 Roadway and Utilities	1 l.s.	\$1,500,000.00	\$ 1,500,000
9 Site construction	1 l.s.	\$5,000,000.00	\$ 5,000,000
10 Subtotal		\$32.75	\$ 6,500,000
11 Escalation to 2018 @ (annually)		10%	\$ 650,000
12 Design Contingency		5%	\$ 325,000
13 Total Site Construction Cost Estimate		\$37.66	\$ 7,475,000
14 TOTAL		\$326.41	\$ 64,791,875

DESIGN COSTS

15 A/E Consultant Design Fee @	6.00%	\$ 3,439,013
16 Expenses		\$ 50,000
17 Civil Engineering/ Land Development Fees		\$ 473,750
18 Geotechnical Investigation		\$ 18,000
19 Land Survey Services		\$ 15,000
20 Inspection/ Testing Services		\$ 100,000
21 Land Development Approvals		\$ 30,000
22 Asbestos Design Services		\$ -
23 Total Design Services		\$ 4,125,763

MISCELLANEOUS COSTS

24 County Conservation District		\$ 5,000
25 Demolition Permit @	2.00% of cost	\$ 30,000
26 Building Permit @	2.00% of cost	\$ 1,295,838
27 Other Approvals		\$ 40,000
28 FFE		\$ 650,000
29 Technology Equipment for building		\$ 650,000
30 Financing Costs		\$ 500,000
31 Construction Management		\$ 650,000
32 Legal		\$ 50,000
33 Commissioning		\$ 85,000
34 Insurance		\$ 60,000
35 Move Costs		\$ 75,000
36 Other Misc Costs		\$ 100,000
37 Total Other Costs		\$ 4,190,838

PROJECT CONTINGENCY

38 Subtotal all costs above		\$ 73,108,475
39 Project Contingency	5.00%	\$ 3,655,424

40 Current Conceptual Estimate		\$ 76,763,899
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NEW BUILDINGS - W. PUMPING STATION RD

1100 Student K-8 Building
Quakertown Community School District
 Bucks County, PA
 10/25/2016

New Construction OPTION 17

AREA	Renovation	0 s.f.
	New Construction	187,500 s.f.
	Total Building Area	187,500 s.f.

New Construction BUDGET COST ANALYSIS

Project Phase: Feasibility Study

CONSTRUCTION

BUILDING CONSTRUCTION

	area	cost/s.f.	total
Total Construction Cost Estimate			
1 New Construction	187,500 s.f.	\$250.00	\$ 46,875,000
2 Renovation	0 s.f.	\$0.00	\$0
3 Alteration	0 s.f.	\$0.00	\$0
4 Subtotal		\$250.00	\$ 46,875,000
5 Escalation to 2018 @ (annually)		10%	\$ 4,687,500
6 Design Contingency		5%	\$ 2,578,125
7 Total Building Construction		\$288.75 s.f.	\$ 54,140,625

SITE CONSTRUCTION

	area	cost/s.f.	total
8 Roadway and Utilities	1 l.s.	\$1,500,000.00	\$ 1,500,000
9 Site construction	1 l.s.	\$5,000,000.00	\$ 5,000,000
10 Subtotal		\$34.67	\$ 6,500,000
11 Escalation to 2018 @ (annually)		10%	\$ 650,000
12 Design Contingency		5%	\$ 325,000
13 Total Site Construction Cost Estimate		\$39.87	\$ 7,475,000
14 TOTAL		\$328.62	\$ 61,615,625

DESIGN COSTS

15 A/E Consultant Design Fee @	6.00%	\$ 3,248,438
16 Expenses		\$ 50,000
17 Civil Engineering/ Land Development Fees		\$ 473,750
18 Geotechnical Investigation		\$ 18,000
19 Land Survey Services		\$ 15,000
20 Inspection/ Testing Services		\$ 100,000
21 Land Development Approvals		\$ 30,000
22 Asbestos Design Services		\$ -
23 Total Design Services		\$ 3,935,188

MISCELLANEOUS COSTS

24 County Conservation District		\$ 5,000
25 Demolition Permit @	2.00% of cost	\$ 30,000
26 Building Permit @	2.00% of cost	\$ 1,232,313
27 Other Approvals		\$ 40,000
28 FFE		\$ 650,000
29 Technology Equipment for building		\$ 650,000
30 Financing Costs		\$ 500,000
31 Construction Management		\$ 650,000
32 Legal		\$ 50,000
33 Commissioning		\$ 85,000
34 Insurance		\$ 60,000
35 Move Costs		\$ 75,000
36 Other Misc Costs		\$ 100,000
37 Total Other Costs		\$ 4,127,313

PROJECT CONTINGENCY

38 Subtotal all costs above		\$ 69,678,125
39 Project Contingency	5.00%	\$ 3,483,906

40 Current Conceptual Estimate		\$ 73,162,031
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NEW MIDDLE SCHOOL - W. PUMPING STATION RD

600 student school

Quakertown Community School District

Bucks County, PA

10/25/2016

New Construction

OPTION 18

AREA	Renovation	0 s.f.
	New Construction	123,000 s.f.
	Total Building Area	123,000 s.f.

New Construction BUDGET COST ANALYSIS

Project Phase: Feasibility Study

CONSTRUCTION

BUILDING CONSTRUCTION

	area	cost/s.f.	total
Total Construction Cost Estimate			
1 New Construction	123,000 s.f.	\$250.00	\$ 30,750,000
2 Renovation	0 s.f.	\$0.00	\$0
3 Alteration	0 s.f.	\$0.00	\$0
4 Subtotal		\$250.00	\$ 30,750,000
5 Escalation to 2018 @ (annually)		10%	\$ 3,075,000
6 Design Contingency		5%	\$ 1,691,250
7 Total Building Construction		\$288.75 s.f.	\$ 35,516,250

SITE CONSTRUCTION

	area	cost/s.f.	total
8 Roadway and Utilities	1 l.s.	\$1,500,000.00	\$ 1,500,000
9 Site construction	1 l.s.	\$5,000,000.00	\$ 5,000,000
10 Subtotal		\$52.85	\$ 6,500,000
11 Escalation to 2018 @ (annually)		10%	\$ 650,000
12 Design Contingency		5%	\$ 325,000
13 Total Site Construction Cost Estimate		\$60.77	\$ 7,475,000
14 TOTAL		\$349.52	\$ 42,991,250

DESIGN COSTS

15 A/E Consultant Design Fee @	6.00%	\$ 2,130,975
16 Expenses		\$ 50,000
17 Civil Engineering/ Land Development Fees		\$ 473,750
18 Geotechnical Investigation		\$ 18,000
19 Land Survey Services		\$ 15,000
20 Inspection/ Testing Services		\$ 100,000
21 Land Development Approvals		\$ 30,000
22 Asbestos Design Services		\$ -
23 Total Design Services		\$ 2,817,725

MISCELLANEOUS COSTS

24 County Conservation District		\$ 5,000
25 Demolition Permit @	2.00% of cost	\$ 30,000
26 Building Permit @	2.00% of cost	\$ 859,825
27 Other Approvals		\$ 40,000
28 FFE		\$ 650,000
29 Technology Equipment for building		\$ 650,000
30 Financing Costs		\$ 500,000
31 Construction Management		\$ 650,000
32 Legal		\$ 50,000
33 Commissioning		\$ 85,000
34 Insurance		\$ 60,000
35 Move Costs		\$ 75,000
36 Other Misc Costs		\$ 100,000
37 Total Other Costs		\$ 3,754,825

PROJECT CONTINGENCY

38 Subtotal all costs above		\$ 49,563,800
39 Project Contingency	5.00%	\$ 2,478,190

40 Current Conceptual Estimate		\$ 52,041,990
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NEW BUILDINGS - W. PUMPING STATION RD

188 Student Western K- Center, New 975 Student 1-8 Bldg

Quakertown Community School District

Bucks County, PA

10/25/2016

New Construction

OPTION 19

AREA	Renovation	0 s.f.
	New Construction	192,255 s.f.
	Total Building Area	192,255 s.f.

New Construction BUDGET COST ANALYSIS

Project Phase: Feasibility Study

CONSTRUCTION

BUILDING CONSTRUCTION

	area	cost/s.f.	total
Total Construction Cost Estimate			
1 New Construction	192,255 s.f.	\$250.00	\$ 48,063,750
2 Renovation	0 s.f.	\$0.00	\$0
3 Alteration	0 s.f.	\$0.00	\$0
4 Subtotal		\$250.00	\$ 48,063,750
5 Escalation to 2018 @ (annually)		10%	\$ 4,806,375
6 Design Contingency		5%	\$ 2,643,506
7 Total Building Construction		\$288.75 s.f.	\$ 55,513,631

SITE CONSTRUCTION

	area	cost/s.f.	total
8 Roadway and Utilities	1 l.s.	\$1,500,000.00	\$ 1,500,000
9 Site construction	1 l.s.	\$5,000,000.00	\$ 5,000,000
10 Subtotal		\$33.81	\$ 6,500,000
11 Escalation to 2018 @ (annually)		10%	\$ 650,000
12 Design Contingency		5%	\$ 325,000
13 Total Site Construction Cost Estimate		\$38.88	\$ 7,475,000
14 TOTAL		\$327.63	\$ 62,988,631

DESIGN COSTS

15 A/E Consultant Design Fee @	6.00%	\$ 3,330,818
16 Expenses		\$ 50,000
17 Civil Engineering/ Land Development Fees		\$ 473,750
18 Geotechnical Investigation		\$ 18,000
19 Land Survey Services		\$ 15,000
20 Inspection/ Testing Services		\$ 100,000
21 Land Development Approvals		\$ 30,000
22 Asbestos Design Services		\$ -
23 Total Design Services		\$ 4,017,568

MISCELLANEOUS COSTS

24 County Conservation District		\$ 5,000
25 Demolition Permit @	2.00% of cost	\$ 30,000
26 Building Permit @	2.00% of cost	\$ 1,259,773
27 Other Approvals		\$ 40,000
28 FFE		\$ 650,000
29 Technology Equipment for building		\$ 650,000
30 Financing Costs		\$ 500,000
31 Construction Management		\$ 650,000
32 Legal		\$ 50,000
33 Commissioning		\$ 85,000
34 Insurance		\$ 60,000
35 Move Costs		\$ 75,000
36 Other Misc Costs		\$ 100,000
37 Total Other Costs		\$ 4,154,773

PROJECT CONTINGENCY

38 Subtotal all costs above		\$ 71,160,972
39 Project Contingency	5.00%	\$ 3,558,049

40 Current Conceptual Estimate		\$ 74,719,020
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NEW BUILDING - W. PUMPING STATION RD

600 Student K-5 Building

Quakertown Community School District

Bucks County, PA

10/25/2016

New Construction OPTION 20

AREA	New K-5 Construct.	99,000 s.f.
	Shared 6-8 portion	7,500 s.f.
	Total Building Area	106,500 s.f.

New Construction BUDGET COST ANALYSIS

Project Phase: Feasibility Study

CONSTRUCTION

BUILDING CONSTRUCTION

	area	cost/s.f.	total
Total Construction Cost Estimate			
1 New Construction	106,500 s.f.	\$250.00	\$ 26,625,000
2 Renovation	0 s.f.	\$0.00	\$0
3 Alteration	0 s.f.	\$0.00	\$0
4 Subtotal		\$250.00	\$ 26,625,000
5 Escalation to 2018 @ (annually)		10%	\$ 2,662,500
6 Design Contingency		5%	\$ 1,464,375
7 Total Building Construction		\$288.75 s.f.	\$ 30,751,875

SITE CONSTRUCTION

	area	cost/s.f.	total
8 Roadway and Utilities	1 l.s.	\$1,500,000.00	\$ 1,500,000
9 Site construction	1 l.s.	\$5,000,000.00	\$ 5,000,000
10 Subtotal		\$61.03	\$ 6,500,000
11 Escalation to 2018 @ (annually)		10%	\$ 650,000
12 Design Contingency		5%	\$ 325,000
13 Total Site Construction Cost Estimate		\$70.19	\$ 7,475,000
14 TOTAL		\$358.94	\$ 38,226,875

DESIGN COSTS

15 A/E Consultant Design Fee @	6.00%	\$ 1,845,113
16 Expenses		\$ 50,000
17 Civil Engineering/ Land Development Fees		\$ 473,750
18 Geotechnical Investigation		\$ 18,000
19 Land Survey Services		\$ 15,000
20 Inspection/ Testing Services		\$ 100,000
21 Land Development Approvals		\$ 30,000
22 Asbestos Design Services		\$ -
23 Total Design Services		\$ 2,531,863

MISCELLANEOUS COSTS

24 County Conservation District		\$ 5,000
25 Demolition Permit @	2.00% of cost	\$ 30,000
26 Building Permit @	2.00% of cost	\$ 764,538
27 Other Approvals		\$ 40,000
28 FFE		\$ 650,000
29 Technology Equipment for building		\$ 650,000
30 Financing Costs		\$ 500,000
31 Construction Management		\$ 650,000
32 Legal		\$ 50,000
33 Commissioning		\$ 85,000
34 Insurance		\$ 60,000
35 Move Costs		\$ 75,000
36 Other Misc Costs		\$ 100,000
37 Total Other Costs		\$ 3,659,538

PROJECT CONTINGENCY

38 Subtotal all costs above		\$ 44,418,275
39 Project Contingency	5.00%	\$ 2,220,914

40 Current Conceptual Estimate		\$ 46,639,189
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NEW BUILDING - W. PUMPING STATION RD

600 Student 6-8 Building (gym and caf constructed in phase 1)

Quakertown Community School District

Bucks County, PA

10/25/2016

New Construction

OPTION 20

AREA

New 6-8 Construct.

105,000 s.f.

Previous construct

(7,500) s.f.

Total Building Area

97,500 s.f.

New Construction

BUDGET COST ANALYSIS

Project Phase: Feasibility Study

CONSTRUCTION

BUILDING CONSTRUCTION

	area	cost/s.f.	total
Total Construction Cost Estimate			
1 New Construction	97,500 s.f.	\$250.00	\$ 24,375,000
2 Renovation	0 s.f.	\$0.00	\$0
3 Alteration	0 s.f.	\$0.00	\$0
4 Subtotal		\$250.00	\$ 24,375,000
5 Escalation to 2018 @ (annually)		10%	\$ 2,437,500
6 Design Contingency		5%	\$ 1,340,625
7 Total Building Construction		\$288.75 s.f.	\$ 28,153,125

SITE CONSTRUCTION

	area	cost/s.f.	total
8 Roadway and Utilities	1 l.s.	\$0.00	\$ -
9 Site construction	1 l.s.	\$1,000,000.00	\$ 1,000,000
10 Subtotal		\$10.26	\$ 1,000,000
11 Escalation to 2018 @ (annually)		10%	\$ 100,000
12 Design Contingency		5%	\$ 50,000
13 Total Site Construction Cost Estimate		\$11.79	\$ 1,150,000
14 TOTAL		\$300.54	\$ 29,303,125

DESIGN COSTS

15 A/E Consultant Design Fee @	6.00%	\$ 1,689,188
16 Expenses		\$ 50,000
17 Civil Engineering/ Land Development Fees		\$ 157,500
18 Geotechnical Investigation		\$ 18,000
19 Land Survey Services		\$ 15,000
20 Inspection/ Testing Services		\$ 100,000
21 Land Development Approvals		\$ 30,000
22 Asbestos Design Services		\$ -
23 Total Design Services		\$ 2,059,688

MISCELLANEOUS COSTS

24 County Conservation District		\$ 5,000
25 Demolition Permit @	2.00% of cost	\$ -
26 Building Permit @	2.00% of cost	\$ 586,063
27 Other Approvals		\$ 40,000
28 FFE		\$ 650,000
29 Technology Equipment for building		\$ 650,000
30 Financing Costs		\$ 500,000
31 Construction Management		\$ 650,000
32 Legal		\$ 50,000
33 Commissioning		\$ 85,000
34 Insurance		\$ 60,000
35 Move Costs		\$ 75,000
36 Other Misc Costs		\$ 100,000
37 Total Other Costs		\$ 3,451,063

PROJECT CONTINGENCY

38 Subtotal all costs above		\$ 34,813,875
39 Project Contingency	5.00%	\$ 1,740,694

40 Current Conceptual Estimate		\$ 36,554,569
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SCHRADERGROUP architecture, LLC
architecture | planning | programming

AUTHOR'S CREDENTIALS

6

AUTHORS CREDENTIALS

This section provides resumes of the project leaders for members of the Schrader Group Architecture, LLC team who participated in the preparation of this District-Wide Facility Master Plan.

Personnel from the following Consultants provided valuable insight toward the completion of Section 7 - Building Assessments. The resumes of those team members can be provided upon request.

- Barry Isett & Associates Engineering – MEP Engineering and Civil Engineering
- D'Huy Engineering – Building Envelope Analysis

DAVID L. SCHRADER, AIA, LEED AP, A4LE

SCHRADERGROUP architecture

Managing Partner, Lead Educational Planner and Designer



professional experience

As Managing Partner of SCHRADERGROUP architecture, LLC, Mr. Schrader is responsible for the firm's leadership including initial design, management and business development. For over two decades his professional experience has been and is focused on the design of facilities of public interest. Mr. Schrader has led design teams specifically focusing on educational design. His ability to create a vision with his clients has fostered significant success for all involved including the client, the design team and the public-at-large. *"Partnership in design is a key focus of creating a better designed environment for each client."*

education

Masters of Architecture

University of Pennsylvania, Philadelphia, PA

Bachelor of Architecture

Bachelor of Science, Architecture

Pennsylvania State University, State College, PA

Study Abroad Program

Florence, Italy

professional registrations

Registered Architect

Delaware, Florida, Louisiana, Maryland, Missouri, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, Utah, Virginia and Texas

affiliations

American Institute of Architects (AIA), National and Philadelphia Chapters
Association of Project Managers
Association for Learning Environments (A4LE) – Formerly Council of Educational Facilities Planners Int'l (CEFPI)
Pennsylvania Society of Architects
Society for College and University Planning

K-12 educational design experience (sample)

Bristol Township School District, Levittown, Pennsylvania

Buchanan Elementary School, New Facility
Emerson Elementary School, New Facility
Mary C. Devine Elementary School, New Facility
District-Wide Feasibility Study and Master Plan

Centennial School District, Warminster, Pennsylvania

Middle School Feasibility Study

Central York School District, York, Pennsylvania

Central York High School, Additions
Hayshire Elementary School, Additions and Renovations
Roundtown Elementary School, Additions and Renovations
Stony Brook Elementary School, Additions and Renovations
High School Feasibility Study
K-8 Feasibility Study Update

Council Rock School District, Newtown, Pennsylvania

Churchville Elementary School, Additions and Renovations
Goodnoe Elementary School, Additions and Renovations
Holland Middle School, Additions and Renovations
Capacity Study Analysis
District-Wide Facility Study

Derry Township School District, Hershey, Pennsylvania

Hershey Middle School, Additions and Renovations

Independence Charter School, Philadelphia, Pennsylvania

Renovations and Additions to Thomas Durham School
Feasibility Study and Master Plan

K-12 educational design experience (continued)

Northwood Academy Charter School, Philadelphia, Pennsylvania

Additions and Renovations

Phoenixville Area School District, Phoenixville, Pennsylvania

Early Learning Center and Elementary School, New Facility
East Pikeland Elementary School, Additions and Renovations

Red Clay Consolidated School District, Wilmington, Delaware

Marbrook Elementary School, Renovations
Mote Elementary School, Renovations

School District of Philadelphia, Philadelphia, Pennsylvania

High School of Engineering and Science, Additions and Renovations
Lankenau High School, Additions and Renovations

State College Area School District, State College, Pennsylvania

Ferguson Township Elementary School, Additions and Renovations
Gray's Woods Elementary School, Addition
Mount Nittany Elementary School, New Facility

Twin Valley School District, Elverson, Pennsylvania

Twin Valley High School, Additions and Renovations
Twin Valley Middle School, Additions and Renovations
Twin Valley Physical Education Center, New Facility
Feasibility Study and Master Plan

Wallingford-Swarthmore School District, Wallingford, Pennsylvania

Feasibility Study

York Suburban School District, York, Pennsylvania

Valley View Elementary School, Additions and Renovations
Yorkshire Elementary School, New Facility
Various Locations, Renovation Projects
Feasibility Study

Baltimore City Public Schools, Baltimore, Maryland

Elementary Middle School/Additions and Renovations
High School, Additions and Renovations

Information about additional projects completed through prior employment available upon request

SCHRADERGROUP architecture, LLC
architecture | planning | programming

community involvement (education-related only)

- 2015 Association for Learning Environments (A4LE) – formerly Council of Educational Facility Planners (CEFPI)**
Vice-Chair, International Board of Directors
Member, International Board of Directors
Innovation Committee Chair – International Board of Directors
Co-Chair – SchoolsNEXT Committee
SchoolsNEXT Jury Chair
Pennsylvania State University School of Architecture
Alumni Board Representative (2014-2017)
- 2014 Council of Educational Facility Planners Int'l (CEFPI)**
Distinguished Service Award – Northeast Region
Jury Member, International Design Awards
Chair, International Membership Committee
Jury Chair, School of the Future Committee
Member, International Board of Directors
National Concrete Masonry Association Unit Design Competition for Pennsylvania State University
Juror under Will Bruder at Pennsylvania State University
Pennsylvania State University School of Architecture
Designated Observer, National Architectural Accrediting Board (NAAB) Accreditation Team
- 2013 Council of Educational Facility Planners Int'l (CEFPI)**
Jury Member, International Design Awards
Chair, International Membership Committee
Jury Chair, School of the Future Committee
Member, International Board of Directors
- 2012 Pennsylvania Department of Education (PDE) Review of School Construction Funding and the Plan Con Process**
Roundtable Participant
Council of Educational Facility Planners Int'l (CEFPI)
Nominated to the 2012 CEFPI International Architectural Award Jury
Jury Chair, School of the Future Committee
Member, International Board of Directors
Interdisciplinary Collaborative Building Information Model (BIM) Studio, Pennsylvania State University

- Part of team recognized with 2012 AIA Technology in Practice (TAP) BIM Award
- 2011 Council of Educational Facility Planners Int'l (CEFPI)**
President – Northeast Region
Planner of the Year – Northeast Region
Nominated, International Planner of the Year
School Building Week, Washington, DC
Chairperson
Council of Educational Facility Planners Int'l (CEFPI)
Midwest Great Lakes Region
Juror – John N. Shaw Award
- 2010 Council of Educational Facility Planners Int'l (CEFPI)**
President – Northeast Region
National Educational Planner of the Year Finalist
School Building Week, Washington, DC
Chairperson and National Juror
AIA Committee on Architecture in Education
Annual Awards Jury Member
- 2009 Council of Educational Facility Planners Int'l (CEFPI)**
President Elect, Northeast region
Educational Planner of the Year, Northeast Regional
Central Pennsylvania Chapter of ASHRAE Panel Discussion
"Integrated Building Design"
Information about additional Community Involvement available upon request.

speaking engagements / publications (education-related only)

- 2014 Council of Educational Facility Planners Int'l (CEFPI) Northeast Region Conference**
"The Process of Re-Envisioning the Schools of Levittown for Twenty-First Century Learning"
- 2013 PASA-PSBA School Leadership Conference**
"Building Community Support for New Schools"
- 2012 Green Schools National Conference**
"Students Design Tomorrow's Sustainable Schools and Communities and Our Future"
- 2011 Educational Facility Planner**
"Students Design Tomorrow's Sustainable Schools and Communities." Volume 45: Issue 4.
School Planning & Management Magazine
"Community-Based Facility Planning: Projects are Realized When All Participate." February 2011 issue
- 2010 Pennsylvania Association of School Business Officials (PASBO) Annual Conference**
"Sustainability is Elementary"
Additional information available upon request.

BRUCE E. BACHTLE, AIA
SCHRADERGROUP architecture
Partner, Project Manager



professional experience

Throughout his career, Mr. Bachtle has fulfilled the roles of Project Manager and Project Architect for major projects that include both new construction as well as additions/alterations. His project management experience combined with his commitment to maintaining long-term client relationships serve SGA clientele well.

Mr. Bachtle has been recognized for his expertise in the management and design of complex projects from inception through to the construction administration phase. Ultimately, maintaining cost control, schedule control, and design quality for all SGA projects is his goal. He has a wide range of experience in the educational, institutional, healthcare, and public safety markets. Also, as an SGA firm partner, he is committed to the highest standards of architectural professional practice and design.

education

Bachelor of Architecture

Drexel University, Philadelphia, PA

Bachelor of Science in Architecture

Temple University, Philadelphia, PA

professional registrations

Registered Architect

Pennsylvania, New Jersey, NCARB

affiliations

American Institute of Architects (AIA), National
and Phila Chapters
Society for College and University Planning

K-12 educational design experience

Bristol Township School District, Levittown, Pennsylvania

Buchanan Elementary School, New Facility

Emerson Elementary School, New Facility

Mary C. Devine Elementary School, New Facility

District-Wide Feasibility Study and Master Plan

Centennial School District, Warminster, Pennsylvania

Middle School Feasibility Study

Central York School District, York, Pennsylvania

Central York High School, Additions

Council Rock School District, Newtown, Pennsylvania

Churchville Elementary School, Additions and Renovations

Goodnoe Elementary School, Additions and Renovations

Various Locations, Entrance Security Renovations

Walt Snyder Stadium, Repairs and Renovations

Springfield School District, Springfield, Pennsylvania

High School, New Facility

Independence Charter School, Philadelphia, Pennsylvania

Renovations and Additions to Thomas Durham School

Northwood Academy Charter School, Philadelphia, Pennsylvania

Additions and Renovations

Orange Public Schools, Orange, New Jersey

Orange Middle School Roof and Masonry Emergent Project

School District of Philadelphia, Philadelphia, Pennsylvania

High School of Engineering and Science, Additions and Renovations

Lankenau High School, Additions and Renovations

State College Area School District, State College, Pennsylvania

Ferguson Township Elementary School, Additions and Renovations

Gray's Woods Elementary School, Addition

Mount Nittany Elementary School, New Facility

Twin Valley School District, Elverson, Pennsylvania

Twin Valley High School, Additions and Renovations

Twin Valley Middle School, Additions and Renovations

Twin Valley Physical Education Center, New Facility

Information about additional projects completed available upon request.



SCHRADERGROUP ARCHITECTURE

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