South Williamsport Area School District

Board of Directors

MCKISSICK ASSOCIATES ARCHITECTURE

LDG Larson Design Group

Our Charge

- Provide the District with an analysis of existing building utilization patterns as well as updated enrollment projection modeling.
- Facilitate a community discussion relative to future configuration possibilities with the goal of freeing up funding for 21st century programs, as well as offsetting budgetary challenges.
- Develop and test fit possible options.
- Provide a final presentation and provide support for ongoing discussions.

Baseline Data Collection - Overview

Professional Staff Survey Summary

To obtain information on community perspective of existing conditions and future direction, we conducted the following…

- **School Staff - Survey**
- **Feasibility Study's Stakeholder Group – Visioning Questionnaire**

HASD Professional Staff Survey Summary

An online survey tool was employed and obtained responses from 67 teaching staff.

- **67 responses = 80% response rate**

Key feedback included…

General Trends in Staff Survey Responses

- **Majority of staff – 10-20 years experience and most have worked in their building for more than 10 years**
- **Modern, individualized, hands-on, real-world learning with use of technology**
- **Prefer ES/MS/HS grade alignment**
- **Class sizes range from 2 to 28/65**
- **44% rooms limited by room arrangement/equipment**

General Trends in Staff Survey Responses

- **Adequate sized, age appropriate classrooms prevail, with most teachers in their own room. However, 25% seem inadequately sized.**
- **Half have inadequate storage and computer/internet access**
- **Technology use is preferred in the classroom**
- **Staff generally feels secure within the buildings**
- **Adequate heating and cooling, though can be noisy and inconsistent**

General Stakeholder Visioning Responses

- **21st Century Learning means dynamic, flexible spaces for individualized learning with use of technology**
- **South Williamsport's assets are it's tight-knit community, small campus environment, dedicated faculty and staff, and involved parents**
- **South Williamsport's weaknesses are outdated facilities, limited budget, technology and curricular and extra-curricular program offerings**

General Stakeholder Visioning Responses

- **South Williamsport's strengths are maintained facilities, responsible fiscally, innovative teaching, supportive administration, and an inclusive environment**
- **Prefer an ES/MS/HS grade organization.**
- **Long range goals would include open classrooms with flexible arrangements for varying programs and class size, STEM labs, sensory rooms, additional art and science space, more behavior support spaces, career prep opportunities, modern athletic spaces, energy efficient systems, updated technology.**

Baseline Data

Educational Programs

What do we know?

- Nature of instruction is changing to a more technology oriented model than in the past.
- Teaching and Learning Styles in the 21st Century have changed to incorporate more individualized learning, work groups, collaboration, and flexibility.

Special Programs / Initiatives

- **Career Pathways**
  - Health/Human Services
  - Engineering
  - Manufacturing
- **Special Education & Itinerant Opportunities**
  - Learning Support
  - Life Skills
  - Autistic Support (IU)
  - Occupational and Physical Therapy
  - Speech and Language Support
  - Gifted

Special Programs / Initiatives (continued)

- **STEM – Science/Math/English/Math**
- **Cyber Program**
- **Breakfast**
  - Elementary School Breakfast in classroom (50%)
  - High School Grab and Go (29%)
- **Collaboration Zones (redefining Library / Study Halls)**
- **Continue to implement 1:1 devices with WiFi (vs Computer Labs)**

Jr/Sr High School Course Enrollment Counts			
	Class sections		Average class size
	#	%	
Class Offerings	*225*	*44%*	*<10*
	236	*46%*	*10-19*
	43	*8%*	*20-27*
Band/Chorus/Study Hall	*7*	*1%*	*27-94*
Total	*511*	*100%*	*11*

Building Area Analysis

Facility Name	Existing Building Area	Recommended Scheduled Area	Recommended New Building Area
Elementary Schools			***1.58***
Existing Central ES (K-4)	55,840 SF	37,468 SF	59,199 SF
Existing Rommelt ES (5-6)	62,487 SF	27,378 SF	43,257 SF
K-5 - Baseline *		49,960 SF	78,937 SF
K-6 - Baseline *		55,095 SF	87,050 SF
K-8 - Baseline *		81,481 SF	128,740 SF
High Schools			***1.70***
Existing HS (7-12)	158,442 SF	75,426 SF	128,224 SF
9-12 - Baseline *		48,146 SF	81,848 SF

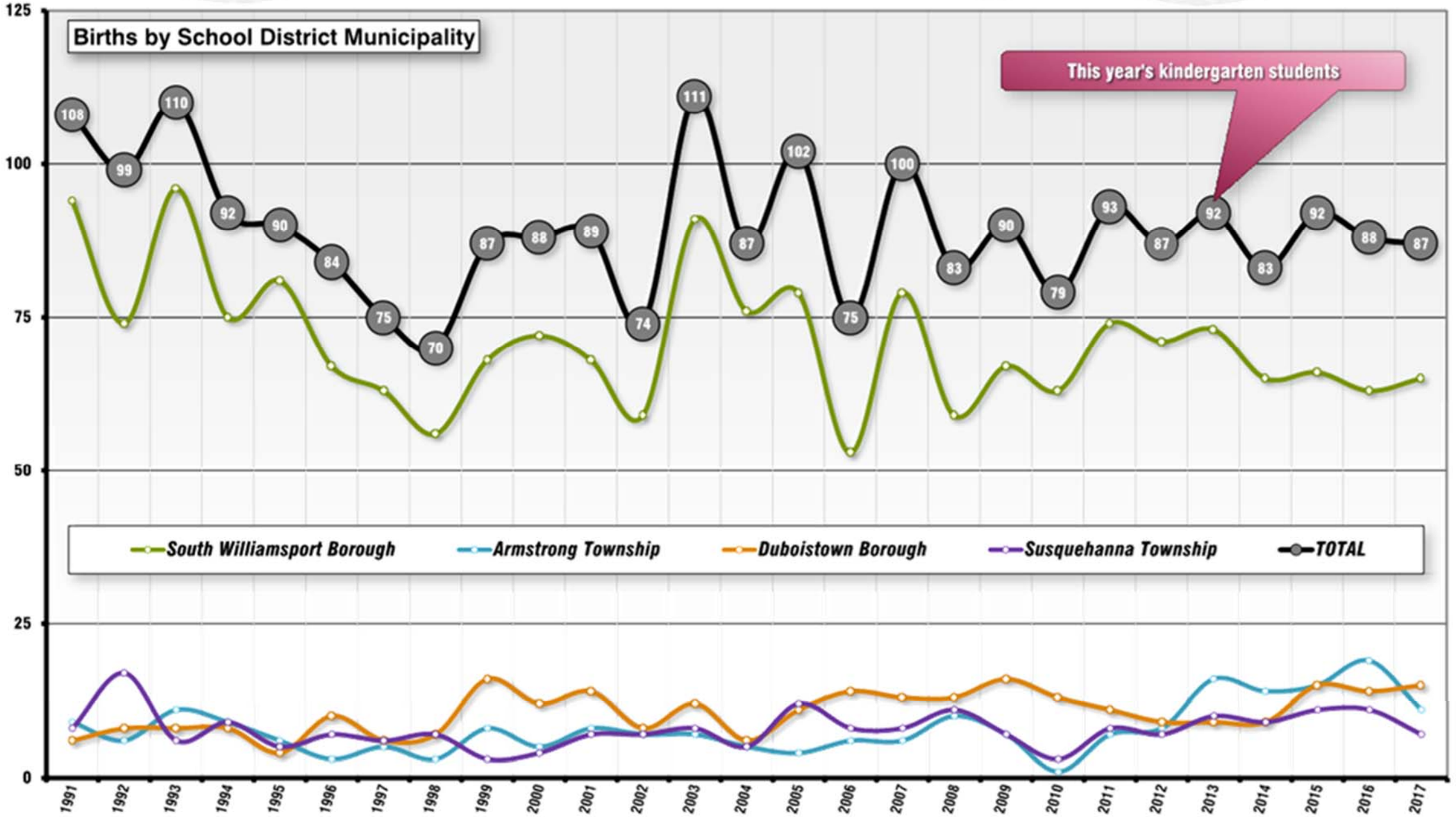
Existing recommended area based on PDE's 58 sf scheduled area per ES student and 78 sf per HS student

** Recommended Baseline Building Area is based on an Educational Specification that meets educational program requirements*

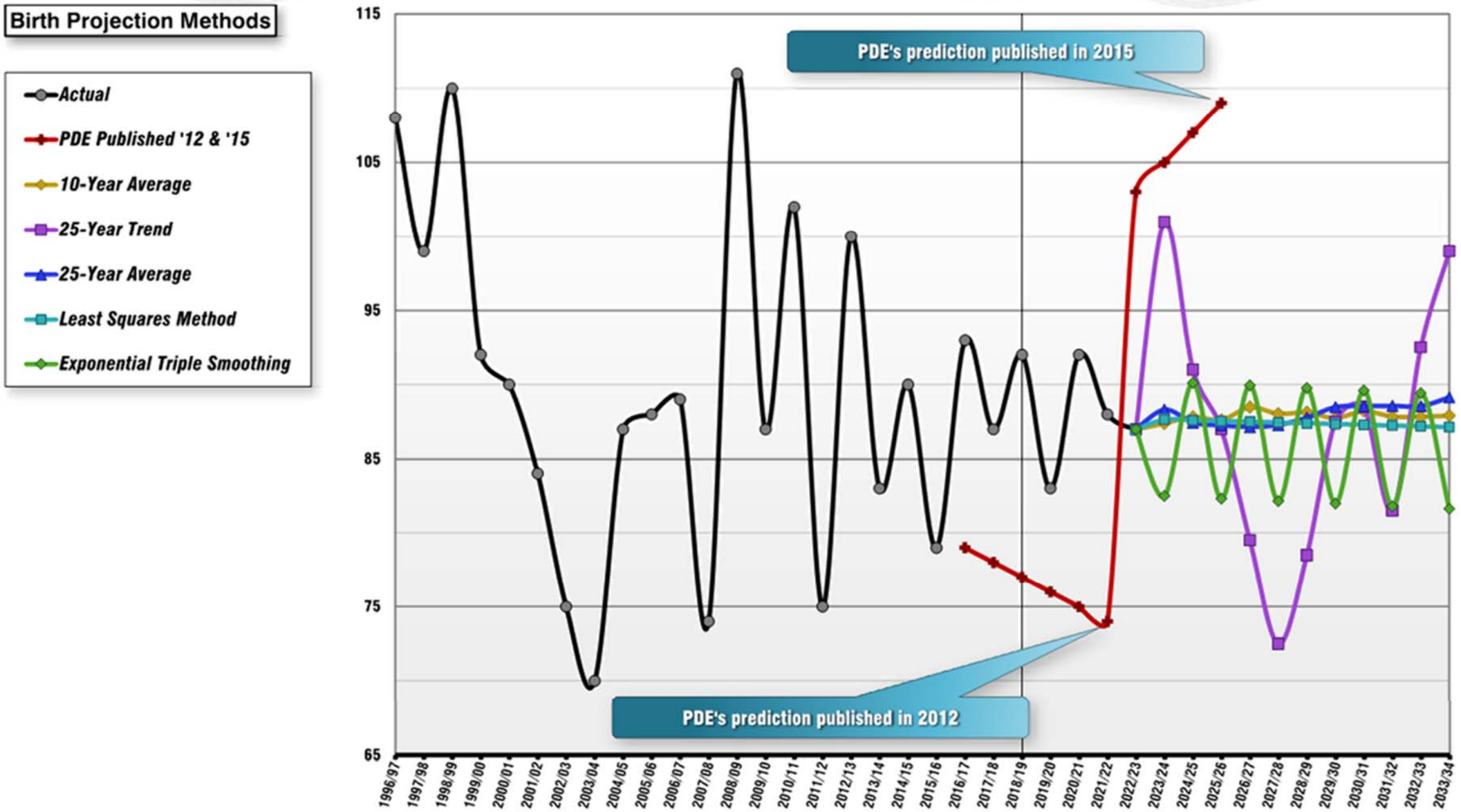
Baseline Data

The Enrollment Picture

Births by School District Municipality



Birth Projections (All Municipalities)



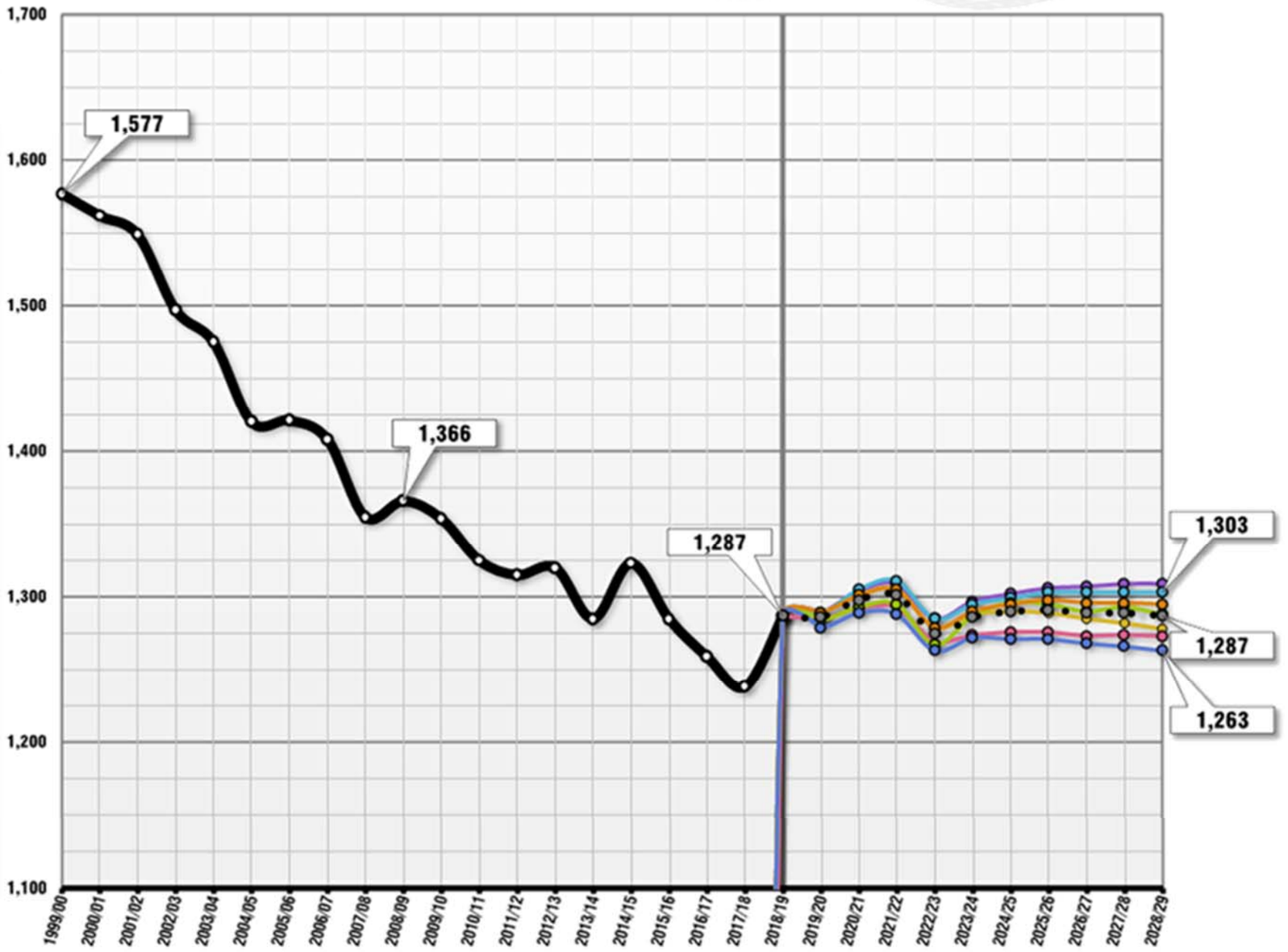
Enrollment Projection Method Comparison

School Year	Enrollment History	Least Squares Method (25-Year) 7 Year Weighted Average Retention from Births for Kindergarten	Linear Forecast Series (25-Year) 7 Year Average Retention from Births for Kindergarten	Least Squares Method (20-Year) 5 Year Average (PA Dept. of Education) Retention from Births for Kindergarten	20-Year Average 5 Year Weighted Average Retention from Births for Kindergarten	15-Year Trend 7 Year Average Retention from Births for Kindergarten	Linear Forecast Series (10-Year) 7 Year Weighted Average Retention from Births for Kindergarten	10-Year Average 4 Year Average Retention from Births for Kindergarten	Average of Methods without Migration
2014/15	1,323								
2015/16	1,285								
2016/17	1,259								
2017/18	1,238								
2018/19	1,287	1,287	1,287	1,287	1,287	1,287	1,287	1,287	1,287
2019/20		1,289	1,284	1,289	1,288	1,284	1,289	1,279	1,286
2020/21		1,301	1,293	1,304	1,305	1,293	1,301	1,289	1,298
2021/22		1,305	1,295	1,309	1,311	1,295	1,305	1,288	1,301
2022/23		1,279	1,267	1,285	1,285	1,267	1,279	1,263	1,275
2023/24		1,288	1,274	1,297	1,295	1,287	1,290	1,272	1,286
2024/25		1,290	1,276	1,302	1,299	1,296	1,295	1,271	1,290
2025/26		1,289	1,276	1,306	1,303	1,295	1,298	1,271	1,291
2026/27		1,285	1,273	1,307	1,303	1,290	1,296	1,268	1,289
2027/28		1,282	1,274	1,309	1,303	1,293	1,296	1,266	1,289
2028/29		1,278	1,273	1,309	1,303	1,288	1,295	1,263	1,287
2029/30		1,290	1,286	1,326	1,317	1,296	1,311	1,274	1,300
2030/31		1,280	1,279	1,323	1,309	1,286	1,304	1,266	1,292
2031/32		1,274	1,274	1,323	1,304	1,281	1,302	1,261	1,288
2032/33		1,279	1,279	1,332	1,308	1,284	1,311	1,266	1,294
2033/34		1,273	1,273	1,332	1,304	1,278	1,309	1,262	1,290
2034/35		1,271	1,274	1,338	1,304	1,277	1,311	1,261	1,291

Enrollment Projection Method Comparison

Enrollment Projection Methods (Resident Population Only)

- Least Squares Method (25-Year)
  7 Year Weighted Average
  Retention from Births for Kindergarten
- Linear Forecast Series (25-Year)
  7 Year Average
  Retention from Births for Kindergarten
- Least Squares Method (20-Year)
  5 Year Average (PA Dept. of Education)
  Retention from Births for Kindergarten
- 20-Year Average
  5 Year Weighted Average
  Retention from Births for Kindergarten
- 15-Year Trend
  7 Year Average
  Retention from Births for Kindergarten
- Linear Forecast Series (10-Year)
  7 Year Weighted Average
  Retention from Births for Kindergarten
- 10-Year Average
  4 Year Average
  Retention from Births for Kindergarten
- Average of All Methods



Enrollment Projections (Average of All Methods)

School Year		K	1	2	3	4	5	6	7	8	9	10	11	12	Total
2013/14		85	106	98	85	138	89	92	107	99	97	93	109	87	1,285
2014/15		98	93	104	98	90	137	91	97	103	102	107	86	117	1,323
2015/16		96	98	99	105	102	91	139	84	100	100	93	95	83	1,285
2016/17		77	94	103	94	105	94	92	139	90	92	92	93	94	1,259
2017/18		101	79	91	102	89	104	101	97	128	86	86	88	86	1,238
2018/19		97	104	84	102	101	104	102	102	92	126	95	87	91	1,287
2019/20		88	100	107	85	102	103	106	104	100	89	125	92	86	1,286
2020/21		97	90	102	109	86	104	104	107	102	97	88	121	91	1,298
2021/22		93	100	92	104	109	87	106	106	106	98	96	85	119	1,301
2022/23		92	95	102	94	105	111	89	107	104	102	97	93	84	1,275
2023/24		94	94	98	104	94	106	113	90	106	101	101	94	91	1,286
2024/25		94	97	96	99	104	96	108	114	88	102	100	98	93	1,290
2025/26		94	97	99	98	100	106	97	110	112	85	101	97	96	1,291
2026/27		93	96	99	101	98	101	108	99	108	108	85	98	95	1,289
2027/28		94	96	98	101	101	100	103	110	97	104	107	82	96	1,289
2028/29		93	96	98	100	101	103	102	105	108	94	103	103	81	1,287

Enrollment Projections (Average of All Methods)

School Year	ELEM K-4	MIDDLE 5-6	INT 7-9	HIGH 10-12	HIGH 5-12	ELEM K-5	HIGH 6-12	ELEM K-6	HIGH 7-12	ELEM K-8	HIGH 9-12	K-12
2013/14	512	181	303	289	773	601	684	693	592	899	386	1,285
2014/15	483	228	302	310	840	620	703	711	612	911	412	1,323
2015/16	500	230	284	271	785	591	694	730	555	914	371	1,285
2016/17	473	186	321	279	786	567	692	659	600	888	371	1,259
2017/18	462	205	311	260	776	566	672	667	571	892	346	1,238
2018/19	488	206	**320**	273	799	592	695	694	593	888	**399**	1,287
2019/20	482	208	293	**303**	804	585	701	691	595	895	391	1,286
2020/21	484	208	306	299	**814**	588	710	693	605	902	396	1,298
2021/22	**499**	193	310	300	803	586	**715**	691	**610**	903	398	1,301
2022/23	488	199	314	274	787	**599**	676	688	587	899	376	1,275
2023/24	485	**219**	296	286	801	591	695	**704**	583	899	387	1,286
2024/25	491	204	304	290	798	587	703	695	595	898	392	1,290
2025/26	487	203	307	294	804	593	698	691	601	**912**	379	1,291
2026/27	488	209	315	277	801	589	700	697	592	904	385	1,289
2027/28	490	203	311	285	799	590	699	693	596	900	389	1,289
2028/29	489	205	306	287	798	592	695	694	593	906	381	1,287
MAX	499	219	315	303	814	599	715	704	610	912	398	1,301
CURRENT + 15.0%	561	237	368	314	919	681	799	798	682	1,021	459	1,480
GREATER	**561**	**237**	**368**	**314**	**919**	**681**	**799**	**798**	**682**	**1,021**	**459**	1,480
2018-2029	1	- 1	- 14	14	- 1			- 0	0	18	- 18	
% Change	0.20%	-0.62%	-4.38%	5.23%	-0.13%	0.00%	0.00%	-0.04%	0.05%	2.04%	-4.55%	0.00%

Baseline Data

Capacity vs Enrollment

PDE Capacity based on the following:

Kindergarten	25 students per classroom
1st to 12th grade	25 students per classroom
MS/HS STEM	25 students per classroom
MS/HS Business/ Computer & Science Labs	20 students per classroom
MS/HS IA, Tech Ed and F&CS	20 students per classroom
MS/HS Music, Band, Orchestra	25 students per classroom
MS/HS Art	20 students per classroom
MS/HS Gym	66 students per 7500 SF
MS/HS Auxiliary Gym	33 students per station
SE Learning Support and Gifted	25 students per classroom
SE Resource Rooms	Pro-rated

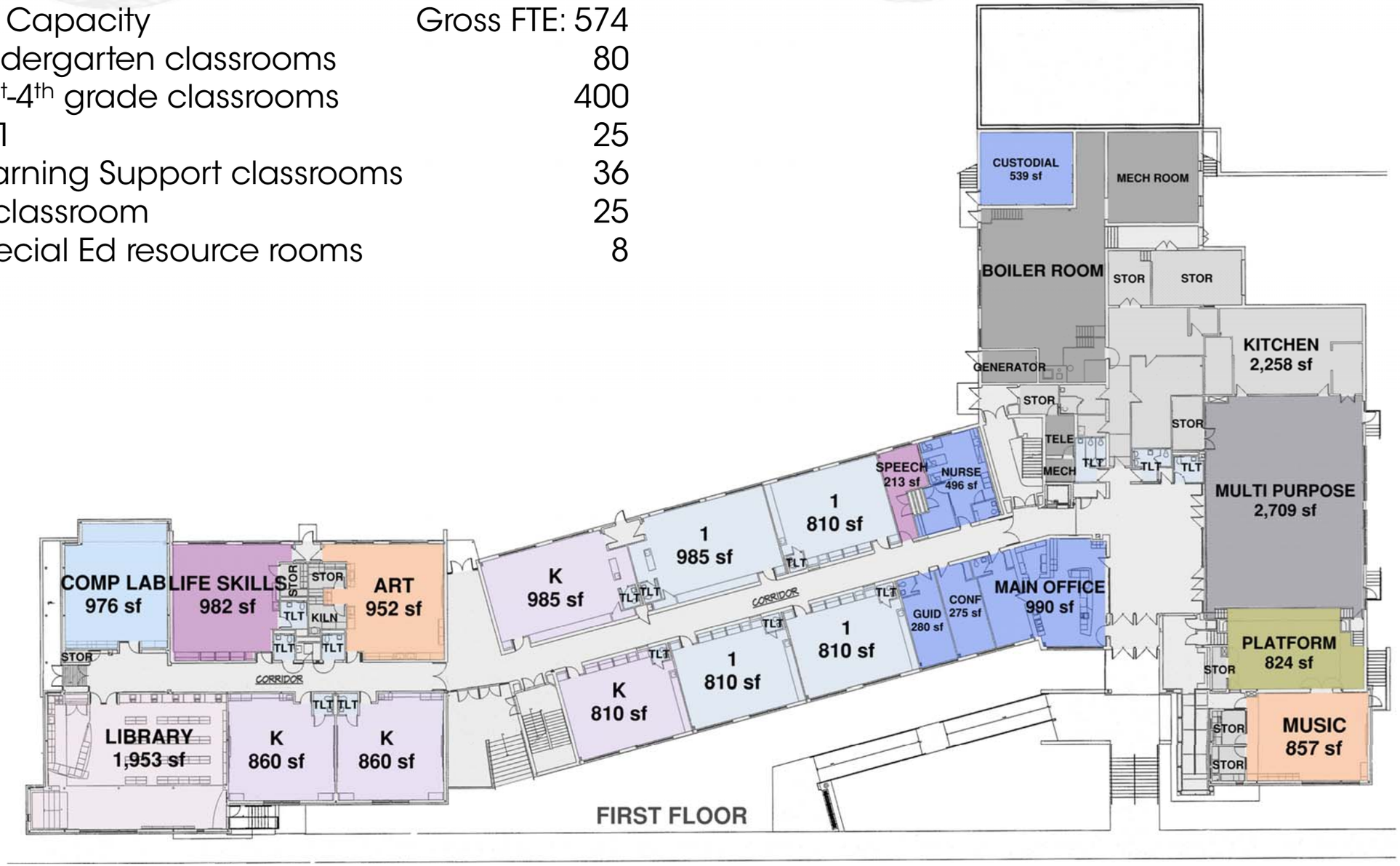
Practical Capacity based on the following:

Kindergarten	20 students per classroom
1st to 12th grade	25 students per classroom
MS/HS STEM	25 students per classroom
MS/HS Business/ Computer & Science Labs	20 students per classroom
MS/HS IA, Tech Ed and F&CS	20 students per classroom
MS/HS Music, Band, Orchestra	25 students per classroom
MS/HS Art	20 students per classroom
MS/HS Gym	30 students per 7500 SF
MS/HS Auxiliary Gym	30 students per station
SE Learning Support and Gifted	12 students per classroom
Non-District IU SE Classroom * *	25 students per classroom
SE Resource Rooms	8 students per room

Central Elementary

Plan, First Floor

Practical Capacity	Gross FTE: 574
4 Kindergarten classrooms	80
16 1st-4th grade classrooms	400
Title 1	25
3 Learning Support classrooms	36
1 IU classroom	25
1 Special Ed resource rooms	8

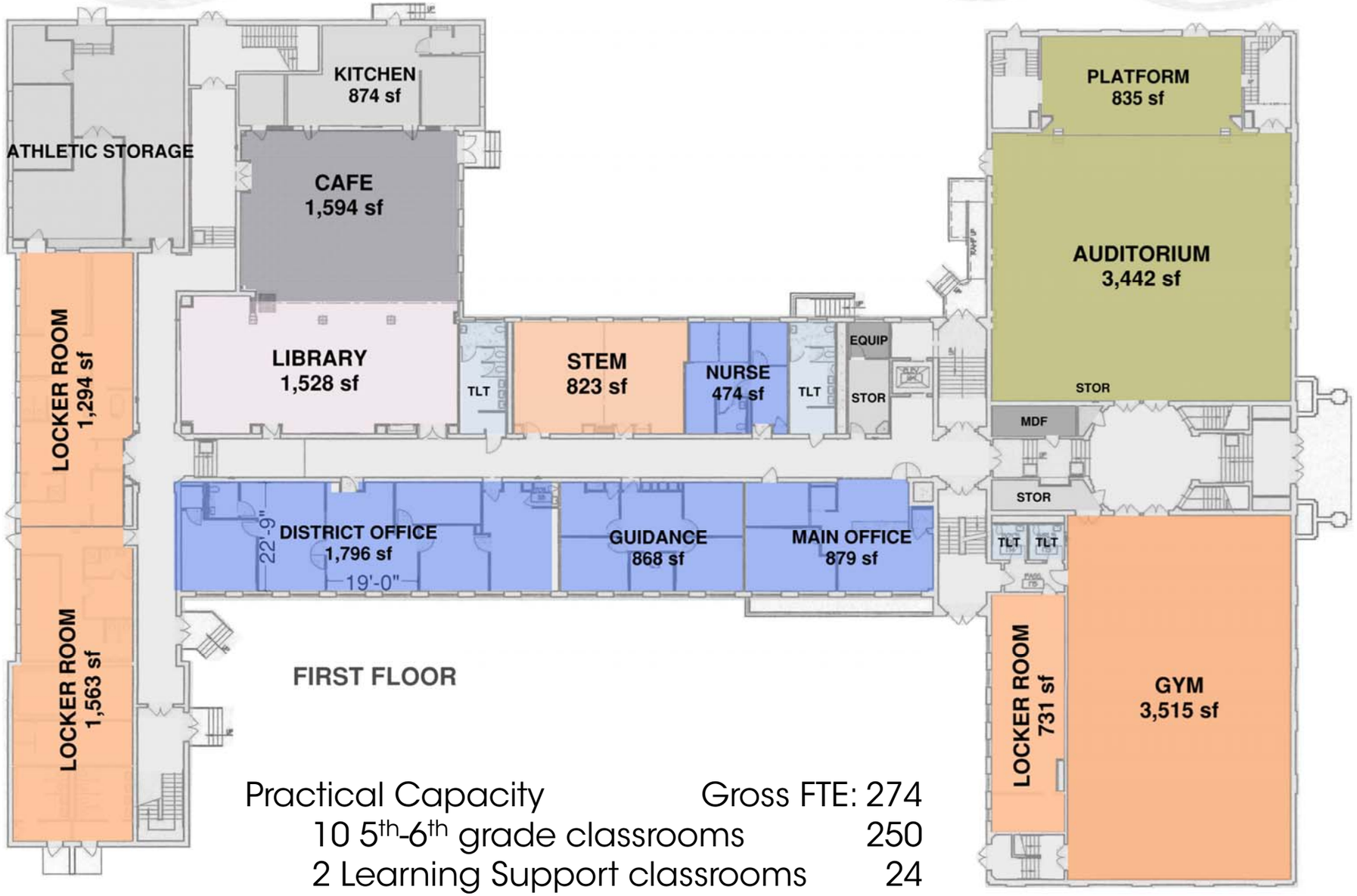


Central Elementary

Plan, Second Floor

Rommelt Elementary School

Plans, First Floor



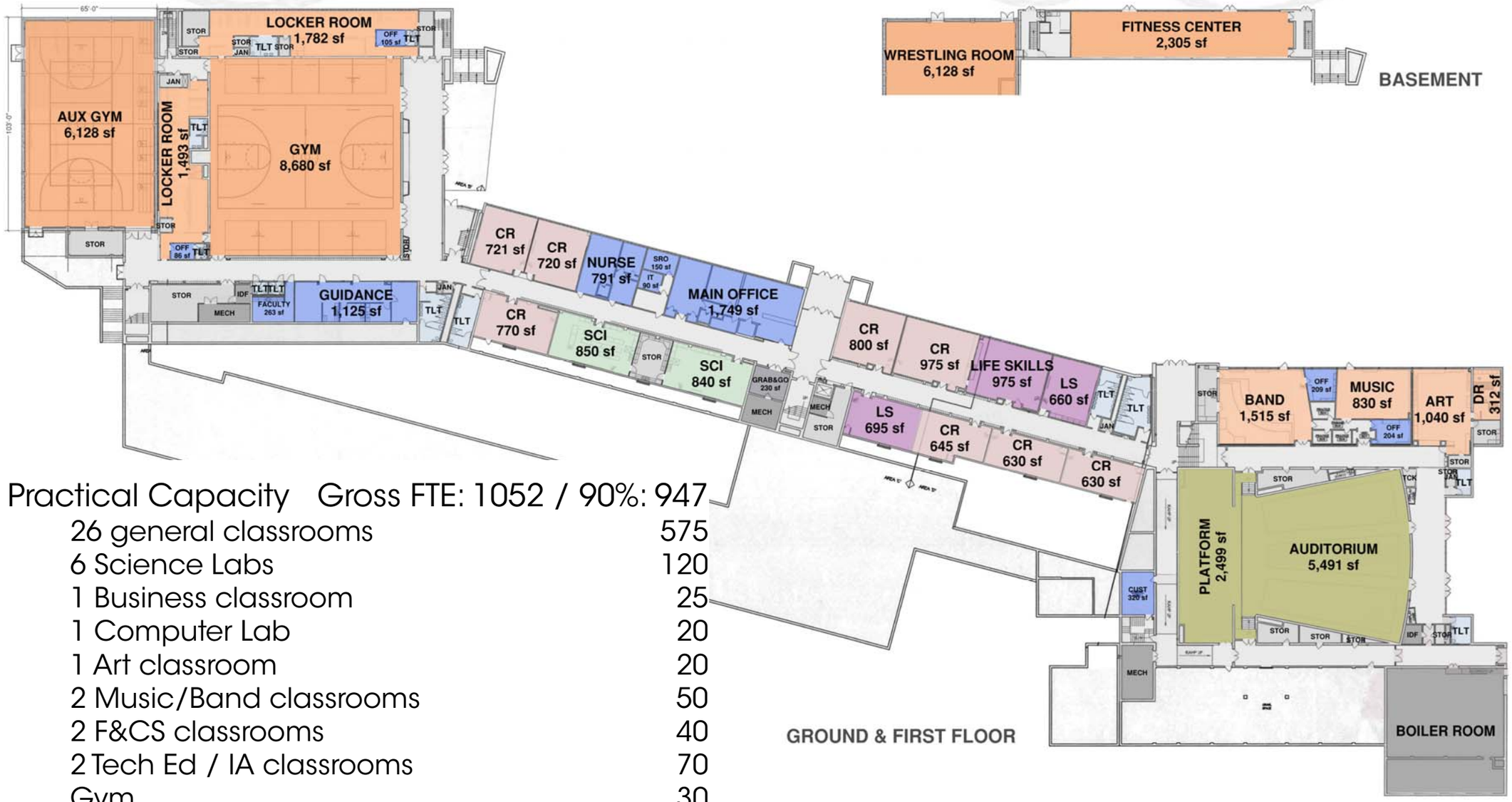
Practical Capacity — Gross FTE: 274

10 5th-6th grade classrooms	250
2 Learning Support classrooms	24

Rommelt Elementary School

Plans, Second Floor

South Williamsport Area Jr/Sr High School — Plans, First Floor



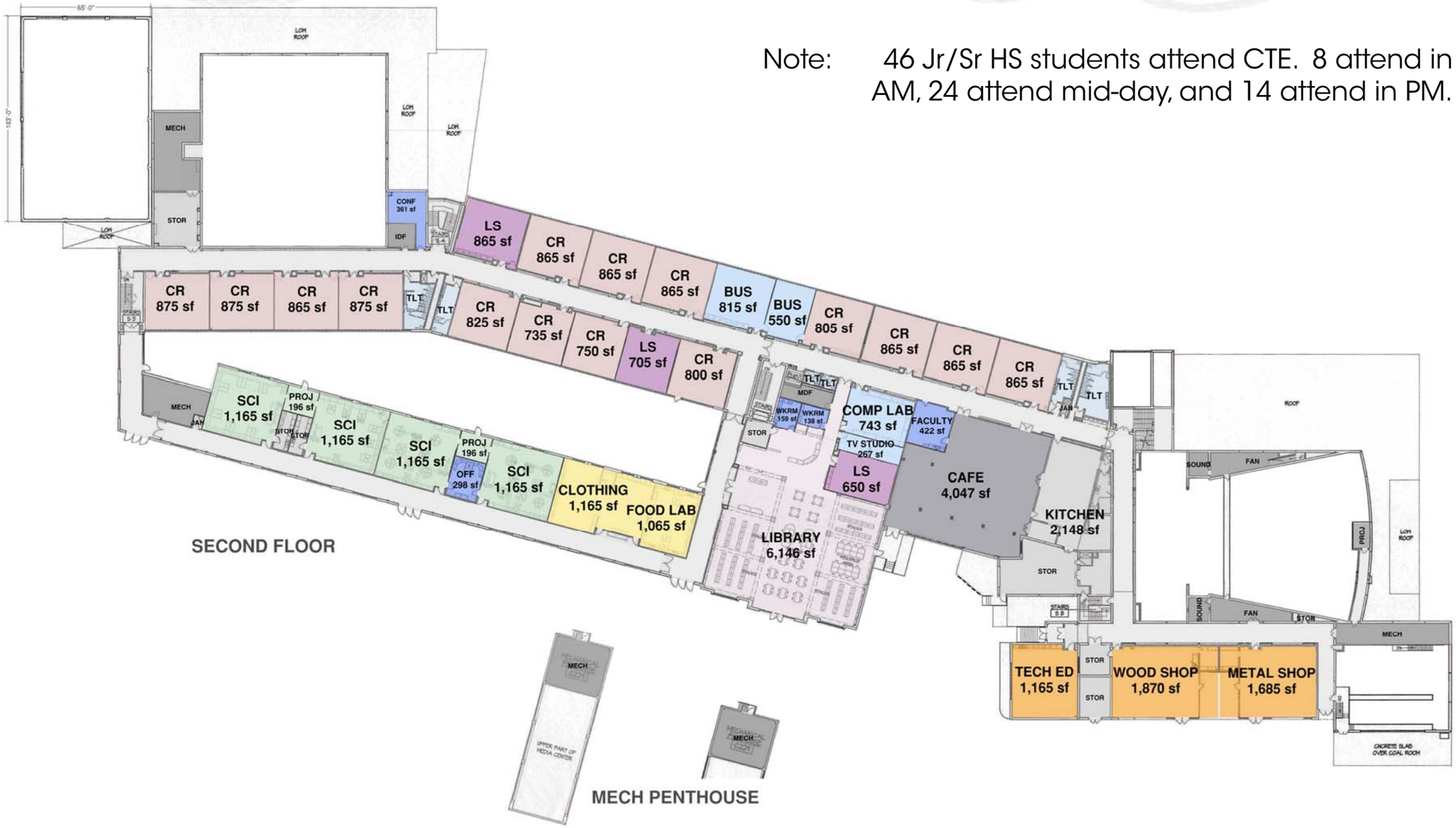
Practical Capacity Gross FTE: 1052 / 90%: 947

26 general classrooms	575
6 Science Labs	120
1 Business classroom	25
1 Computer Lab	20
1 Art classroom	20
2 Music/Band classrooms	50
2 F&CS classrooms	40
2 Tech Ed / IA classrooms	70
Gym	30
Auxiliary Gym	30
6 Learning Support classrooms	72

South Williamsport Area Jr/Sr High School

Plans, Second Floor

Note: 46 Jr/Sr HS students attend CTE. 8 attend in AM, 24 attend mid-day, and 14 attend in PM.



Capacity Versus Enrollment Chart

Facility Name	Enrollment	Capacity *		Public Enrollment			
		PDE Capacity	Practical Capacity	Regular Education / ESL / 504	Special Education	Gifted	Total District Enrollment
Primary Schools	***488***	***646***	***574***				
Central Elementary	488	646	574	449	37	2	**488**
Intermediate Schools	***206***	***300***	***274***				
Rommelt Elementary	206	300	274	164	41	1	**206**
High Schools	***597***	***1,000***	***947***				
South Williamsport Area Jr/Sr High	597	1,000	947	489	94	14	**597**
TOTAL	**1,291**	**1,946**	**1,795**	**1,102**	**172**	**17**	**1,291**

** MS/HS Capacity shown as net FTE based on 90% utilization due to room scheduling.*

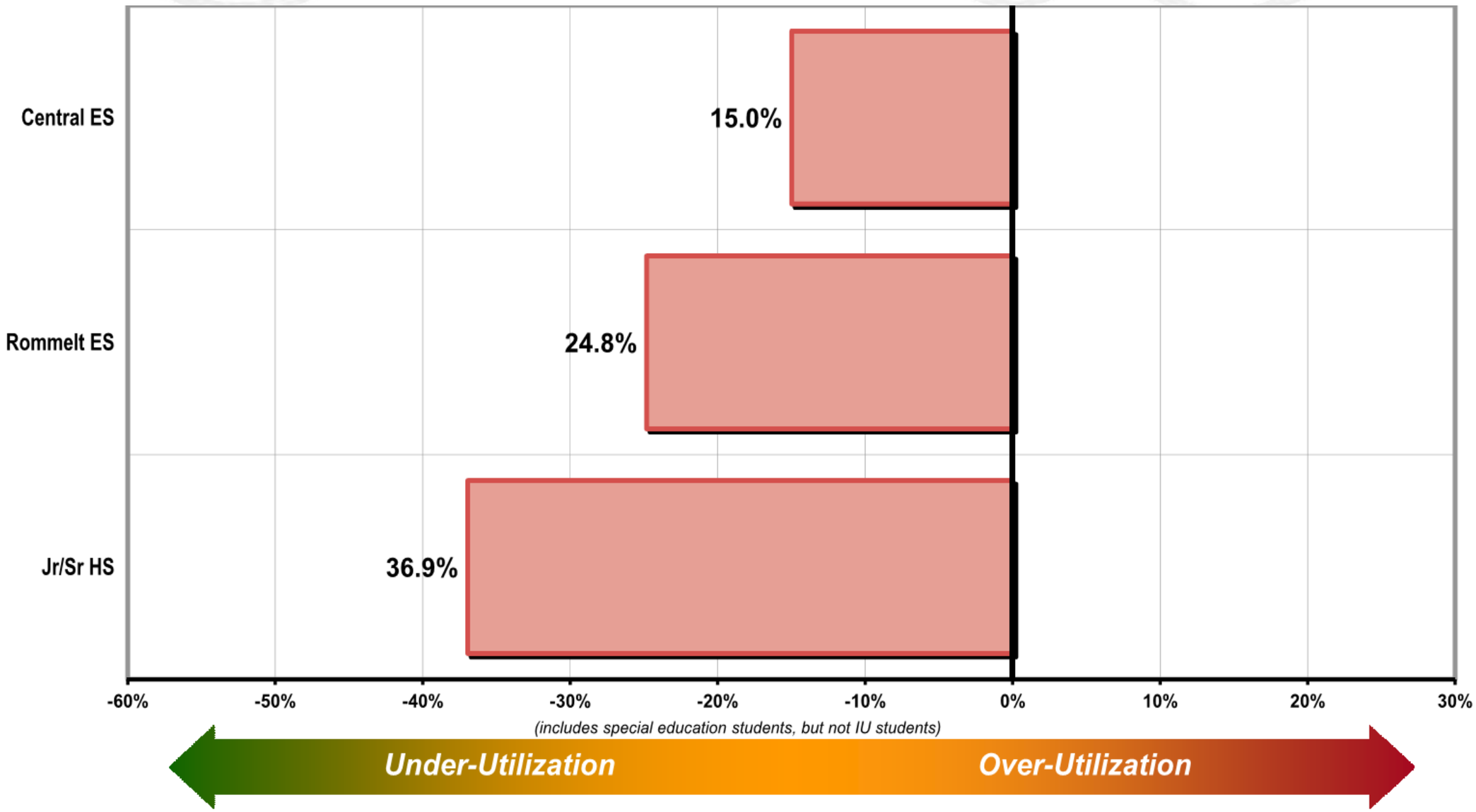
Utilization Chart

Facility	Enrollment	Building Area (not including Natatorium or Dist. Garage)	Replacement Cost/SF	Current RE Enrollment*	Current SE Enrollment	Current Gifted Enrollment	Total Building Enrollment **	Building Capacity (PDE)	Building Capacity (Practical)	Current Total IU Enrollment	Current Total IU Enrollment from out of District	Utilization Percentage	SF per Pupil*	Utilization Percentage (over/under)
Elementary Schools														
Central ES	488	55,840 SF	$ 12,718,566	449	37	2	488	646	574	2		85.02%	97 SF	***14.98%***
Middle Schools							***488***		***574***			***10.63%***		***89.37%***
Rommelt ES	206	62,487 SF	$ 14,996,880	164	41	1	206	300	274			75.18%	228 SF	***24.82%***
High Schools							***206***		***274***			***18.80%***		***81.20%***
Jr/Sr HS	597	158,442 SF	$ 41,987,130	489	94	14	597	1,000	947			63.05%	167 SF	***36.95%***
							597		***947***	***Excluded from summary computations below.***				
Total		***276,769 SF***	***$ 69,702,576***	***1,102***	***172***	***17***	***1,291***	***1,946***	***1,795***	***2***	***0***	***66.35%***	***142 SF***	

** 46 Jr/Sr HS students attend CTE. 8 attend in AM, 24 attend mid-day, and 14 attend in PM.*

*** PDE Target SF Per Pupil is 92 SF for Elementary and 123 SF Pupil for Secondary Grades*

Utilization Graph



Baseline Data

Facility Condition Assessments

Baseline: Building Renewal*

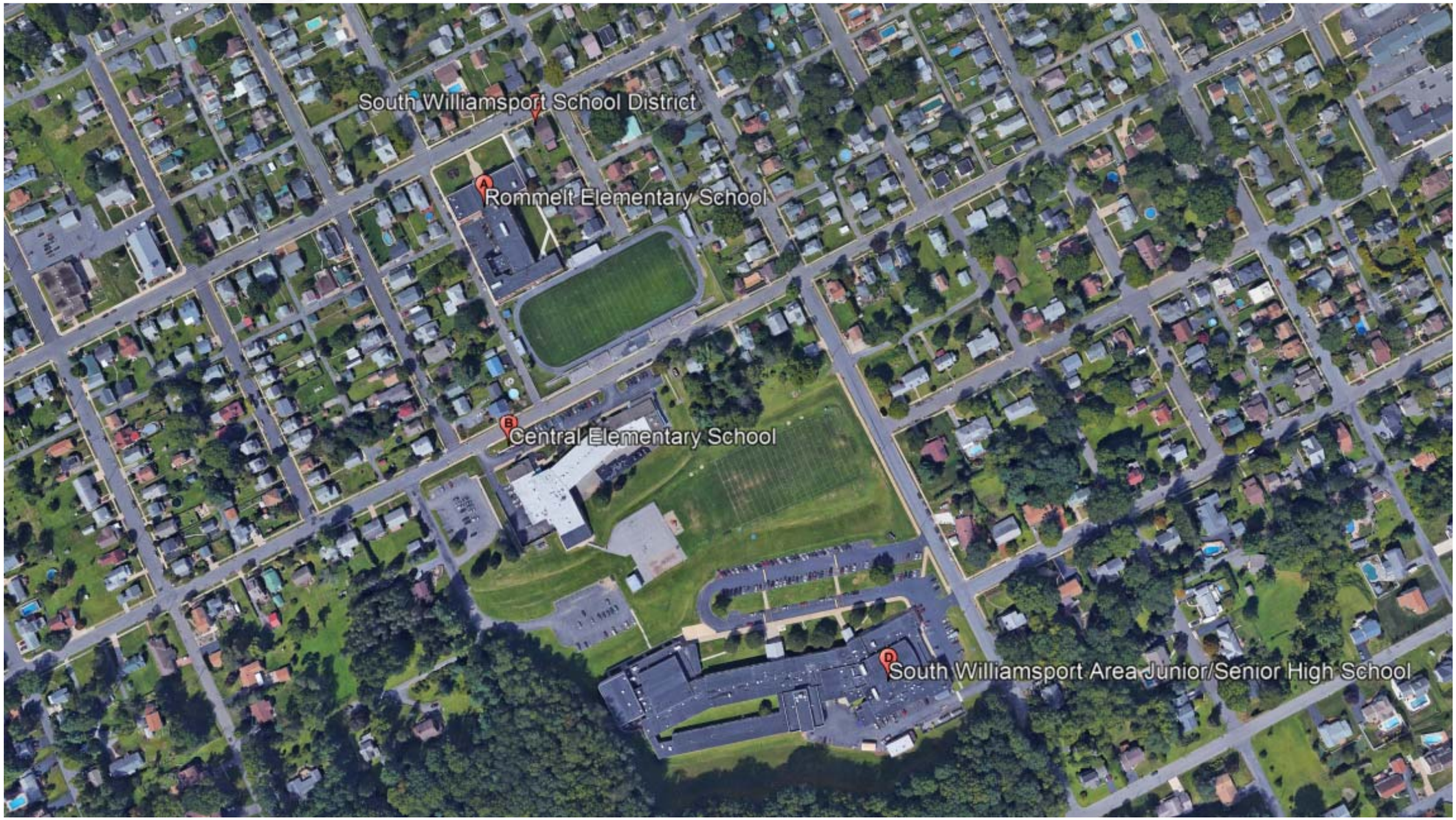
Practical Capacity:	
Jr/Sr HS	*947*
Rommelt	*274*
Central	*574*
	1795

$19,497,000 – Construction Costs

2018/19 Enrollment:	
7-12	*597*
5-6	*206*
K-4	*488*
	1291

Highest Projected Enrollment:		
7-12	*('21/22)*	*610*
5-6	*('23/24)*	*219*
K-4	*('21/22)*	*499*
		1328

***Renewal does not include educational upgrades to spaces or facilities – it brings the existing building back to an "AS NEW" condition but in current configuration.**

District Campus

Site Plan