

South Orangetown Central School District

Smart Schools Investment Plan



SOUTH ORANGETOWN
Central School District



Smart Schools Bond Act (SBBA)

- The Smart Schools Bond Act was passed in the 2014-15 Enacted Budget and approved by the voters in a statewide referendum held during the 2014 General Election.
- The Smart Schools Bond Act (SSBA) authorized the issuance of \$2 billion of general obligation bonds to finance improved **educational technology and infrastructure to improve learning and opportunity** for students throughout the State.



District Funding Allocation

The South Orangetown Central School
District's allocation is **\$1,029,143**

SBBA Eligible Categories

- **School Connectivity**
- Community Connectivity
- Classroom Learning Technology
- Pre-Kindergarten Classrooms
- Replace Transportable Classrooms
- High-tech Security

Historical Perspective

- 2016 Original Plan – Security Cameras
- 2018 Revised Plan – Replace CLE Modular
- 2021 Proposed Plan – **Cabling Infrastructure**

Evolved from Capital Improvement Planning



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District Plan – School Connectivity

- Modules & components
- **Cabling / Fiber**
- Appliance and network configuration
- Cooling components
- Hardware extended warranties

Support the growing needs of our district

Capital Improvement Project Work

- The Smart Schools Investment Plan (SSIP) will be **coordinated with the work involved** in the **capital improvement project**.
- Renovating classrooms and other learning spaces, upgrade heating and air quality systems, and enhance security and access control.

Minimize potential rework between the two initiatives

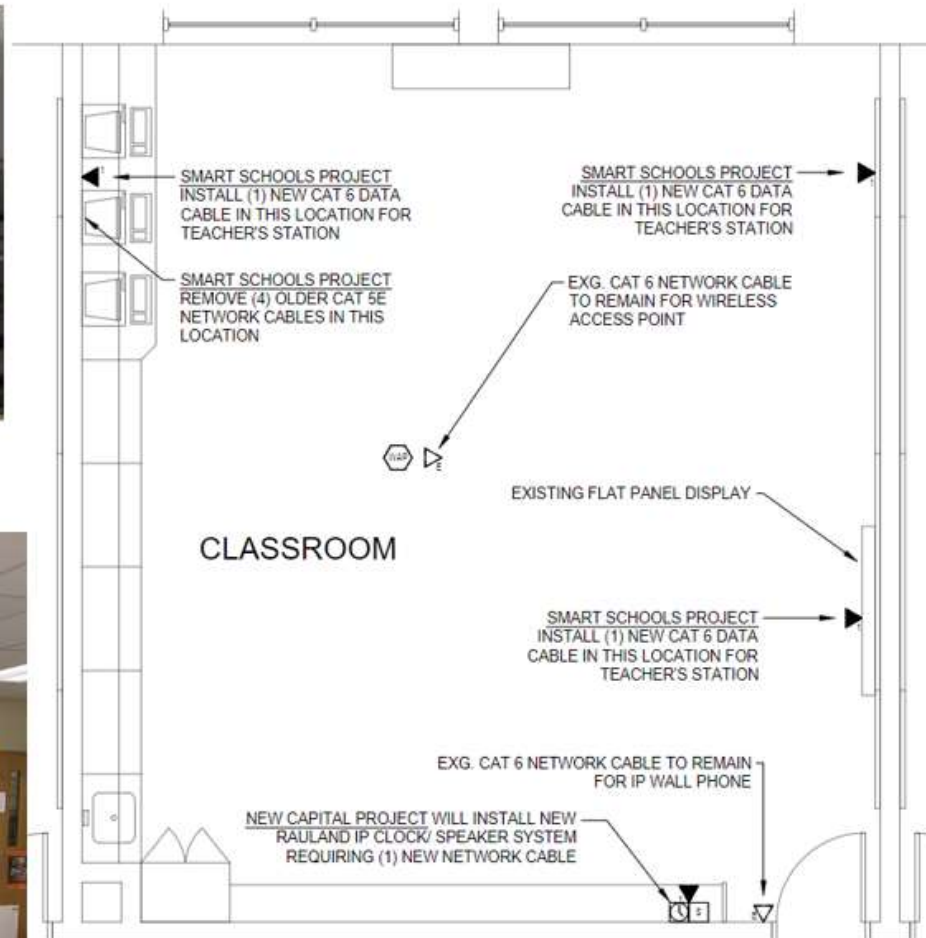


Scope of Work

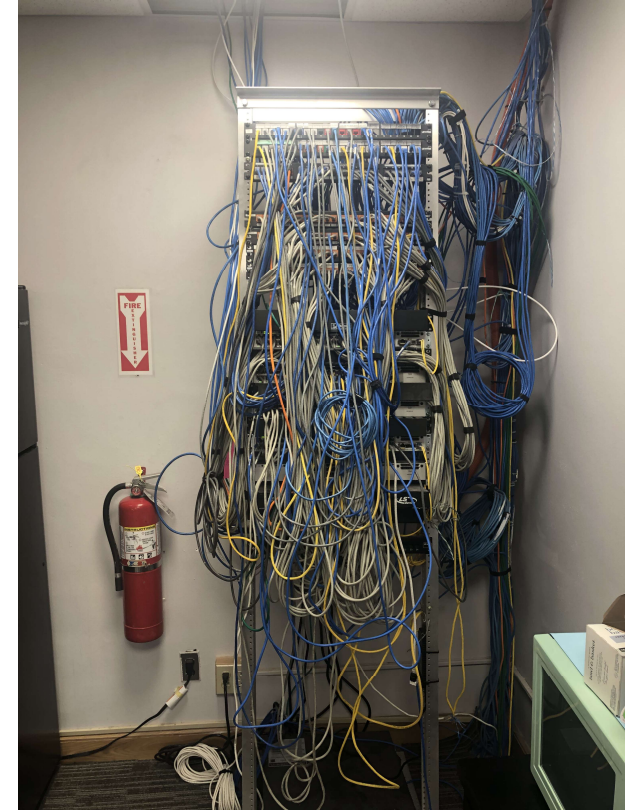
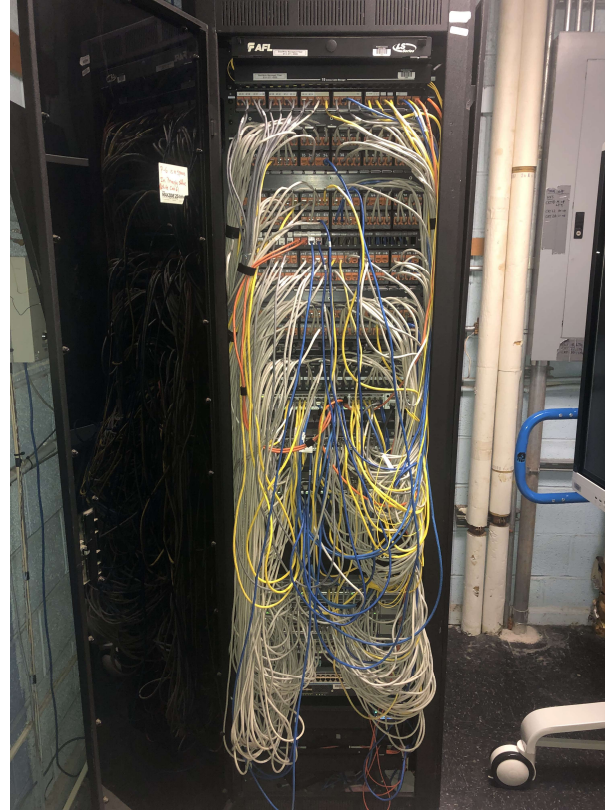
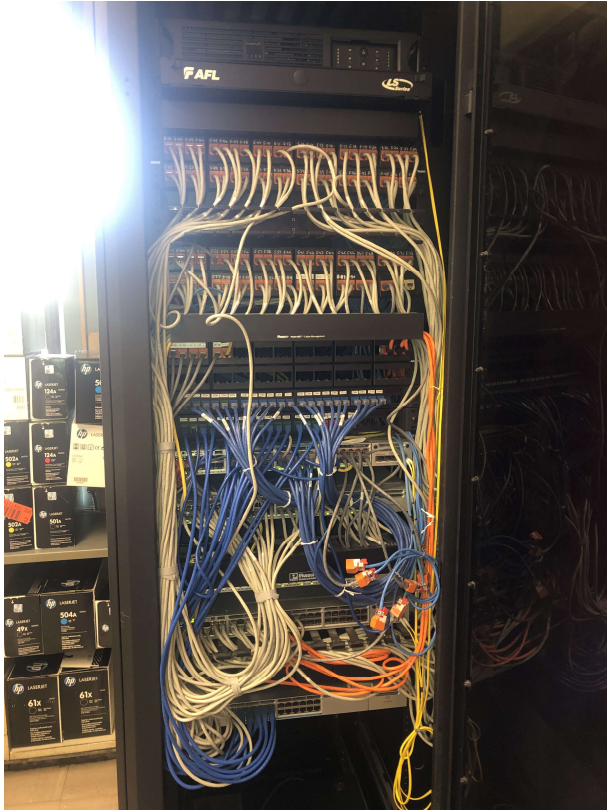
- **CLASSROOM**
 - Remove aging Cat 5 cables
 - Install (3) new Cat 6 cables – new data drops
 - Location - Front / Rear / Display
- **NETWORK CLOSETS**
 - Remove old cable and data drops
 - Punch down and terminate new cable runs
 - Relocate patch panels
 - Relocate existing network switches



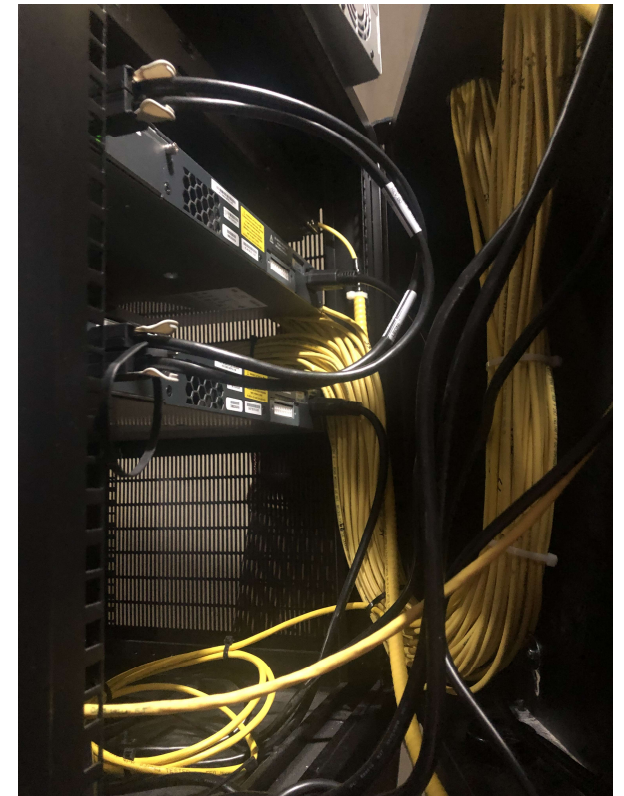
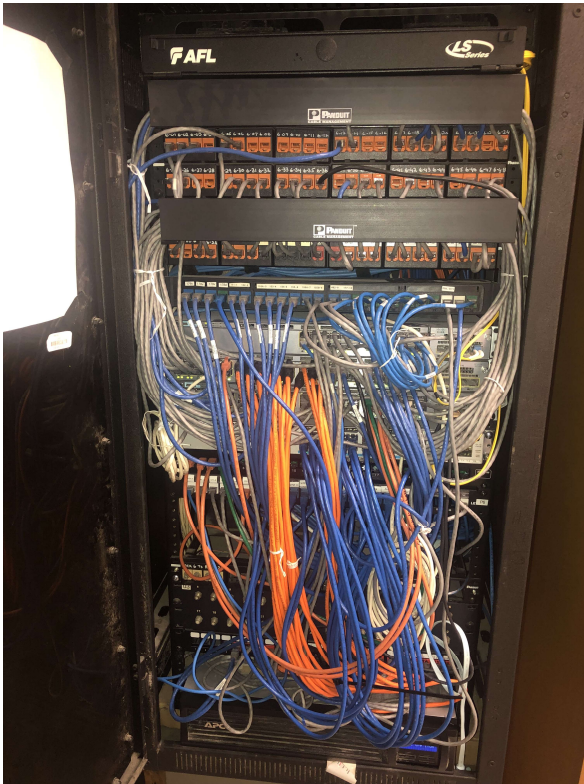
Classroom Plan



Examples of Switch Closets



Examples of Switch Closets



Cost Analysis – William O Schaefer

School	Old Data Cabling in each Rack	Removal of old Data Cabling	Removal of old IBM Type 2 Cabling	Classrooms	New Data Cables	Installation of New Data Cabling	Telecom Room Modifications	Telecom Grounding System	Subtotal
Wm. Schaefer Elementary School (WSES)	-							\$8,500	\$8,500
MDF (Main Telecom Room)	28	\$2,800		1	3	\$2,250	\$4,000		\$9,050
IDF-1 (Tech Closet)	88	\$8,800		14	42	\$31,500	\$4,000		\$44,300
IDF-2 (Girls Toilet)	16	\$1,600		4	12	\$9,000	\$3,000		\$13,600
Miscellaneous Office & Support Spaces					15	\$11,250			\$11,250
Subtotal	132	\$13,200	\$0		72	\$54,000	\$11,000	\$8,500	\$86,700
Costs do not include Construction Contingency and Incidental costs.									
Adjustments to pricing because of CIP Renovation work in Classrooms									



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Cost Analysis – Cottage Lane

School	Old Data Cabling in each Rack	Removal of old Data Cabling	Removal of old IBM Type 2 Cabling	Classrooms	New Data Cables	Installation of New Data Cabling	Telecom Room Modifications	Telecom Grounding System	Subtotal
Cottage Lane Elementary School (CLES)	-							\$7,500	\$7,500
MDF (Main Telecom Room)	180	\$18,000		16	48	\$36,000	\$4,000		\$58,000
IDF-1 (Toilet by Copy Room)	44	\$4,400		15	45	\$33,750	\$3,000		\$41,150
IDF-2 (Jan Office 103)	24	\$2,400		8	24	\$18,000	\$3,000		\$23,400
IDF-3 (Portable Library Classroom)					0	\$0	\$0	NA	\$0
Miscellaneous Office & Support Spaces					20	\$15,000			\$15,000
Subtotal	248	\$24,800	\$0		137	\$102,750	\$10,000	\$7,500	\$145,050
Costs do not include Construction Contingency and Incidental costs.									
Adjustments to pricing because of CIP Renovation work in Classrooms									



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Cost Analysis – SOMS

School	Old Data Cabling in each Rack	Removal of old Data Cabling	Removal of old IBM Type 2 Cabling	Classrooms	New Data Cables	Installation of New Data Cabling	Telecom Room Modifications	Telecom Grounding System	Subtotal
South Orangetown MS (SOMS)	-							\$19,000	\$19,000
MDF (Main Telecom Room)	96	\$9,600		0	0	\$0	\$3,000		\$12,600
IDF-1-1 (Office 181A)	96	\$9,600		15	45	\$33,750	\$2,500		\$45,850
IDF-1-2 (Clrm 152)	0	\$0		2	6	\$4,500	\$0		\$4,500
IDF-1-3 (Nurse)	72	\$7,200		11	33	\$24,750	\$2,500		\$34,450
IDF-1-4 (Gym Storage)	0	\$0		0	0	\$0	\$0		\$0
IDF-2-1 (CLRM 231)	69	\$6,900		13	75	\$56,250	\$2,500		\$65,650
IDF-2-2 (Curric. Suite)	96	\$9,600		6	18	\$13,500	\$9,000		\$32,100
IDF-3-1 (Storage by Library 321)	45	\$4,500		8	24	\$18,000	\$5,000		\$27,500
IDF-3-1A (Storage by Library 321)	0	\$0		0	0	\$0	\$0		\$0
Miscellaneous Office & Support Spaces					45	\$33,750			\$33,750
Subtotal	474	\$47,400	\$0		246	\$184,500	\$24,500	\$19,000	\$275,400
Costs do not include Construction Contingency and Incidental costs.									
Adjustments to pricing because of CIP Renovation work in Classrooms									



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Cost Analysis – TZHS

School	Old Data Cabling in each Rack	Removal of old Data Cabling	Removal of old IBM Type 2 Cabling	Classrooms	New Data Cables	Installation of New Data Cabling	Telecom Room Modifications	Telecom Grounding System	Subtotal
Tappan Zee HS (TZHS)	-							\$23,000	\$23,000
MDF (Main Telecom Room)	72	\$7,200	\$6,000	8	24	\$18,000	\$5,500		\$36,700
IDF-G1 (Gym Storage)	15	\$1,500		0	15	\$11,250	\$1,000		\$13,750
IDF-G2 (Art 118 Suite)	0	\$0		24	24	\$18,000	\$1,000		\$19,000
IDF-2-1 (Attendance Suite)	96	\$9,600		15	45	\$33,750	\$2,500		\$45,850
IDF-2-2 (By Clrm 418)	118	\$11,800	\$4,350	2	6	\$4,500	\$2,500		\$23,150
IDF-2-3 (Storage 312)	118	\$11,800	\$4,200	2	6	\$4,500	\$2,500		\$23,000
IDF-2-4 (Storage 302)	0	\$0	\$6,600	0	0	\$0	\$3,000		\$9,600
IDF-2-5 (By Clrm 205)	0	\$0		0	0	\$0	\$3,500		\$3,500
IDF-2-6 (Clrm C11)	0	\$0		0	0	\$0	\$0		\$0
Miscellaneous Office & Support Spaces					55	\$41,250			\$41,250
Subtotal	419	\$41,900	\$21,150		175	\$131,250	\$21,500	\$23,000	\$238,800
Costs do not include Construction Contingency and Incidental costs.									
Adjustments to pricing because of CIP Renovation work in Classrooms									



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Cost Analysis – District Wide

Capital Construction Cost		\$745,950
10% Cost Escalation		\$74,595
<u>10% Construction Contingency:</u>		<u>\$74,595</u>
Subtotal:		\$895,140
<u>15% Incidental Costs</u>		<u>\$134,271</u>
Total Project Costs		\$ 1,029,411
Smart Schools Allocation		\$1,029,143
Balance		(\$268)



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Smart Schools Bond Act Phases

Phase 1 – Communication

- Stakeholder Meetings
- Public Review (30 days on District web site)
- Board of Education Public Hearing and Approval of Scope

Phase 2 – Smart Schools Investment Plan Submission / Approval

- SSIP Finalized
- Technical Design
- NYSED Facilities Planning Submission / Approval

Phase 3 – Bid / Award / Construction

- Bid / Bid Award
- Construction / Closeout
- Project Invoices to SSBA

Phase I – Community Communication

Task Name	Estimated Duration Days	Resource
Consultation with Community Stakeholders	17	District
Facility Evaluations for Project Scope & Budgets	50	District / Consultant
Preliminary Board Approval of Smart Schools Scope	1	District
Submit SSBA NYSED LOI	1	District
NYSED Facilities Planning approves LOI	10	NYSED FP
Post SSIP for Public Review for 30 days on District web site	35	District
Board conducted Public Hearing & Approval	1	District



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Phase 2 - Smart Schools Investment Plan

Task Name	Estimated Duration Days	Resource
SSIP Plan finalized and Submitted	1	District
Final SSIP Plan posted on District web site	1	District
Start Preliminary Technical Design	30	Architect / Engineer
SSBA Review Board Approves SSIP	210	SSBA Review Board
Final Technical Design	45	Architect / Engineer
NYSED Facilities Planning Project Submission	1	Architect / Engineer
NYSED Facilities Planning Approval of Capital Project	145	NYSED FP



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Phase 3 - Bid / Award / Construction

Task Name	Estimated Duration Days	Resource
Bid Period	25	Architect / Engineer
Award of Contract by Board	1	District
Contractors Mobilize	1	Prime Contractors
Construction Phase	115	Prime Contractors
Closeout	45	Prime Contractors
Project invoices submitted to SSBA	155	District



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