

AGENDA

1 Next Steps

2 Option Development

(3) Option 1

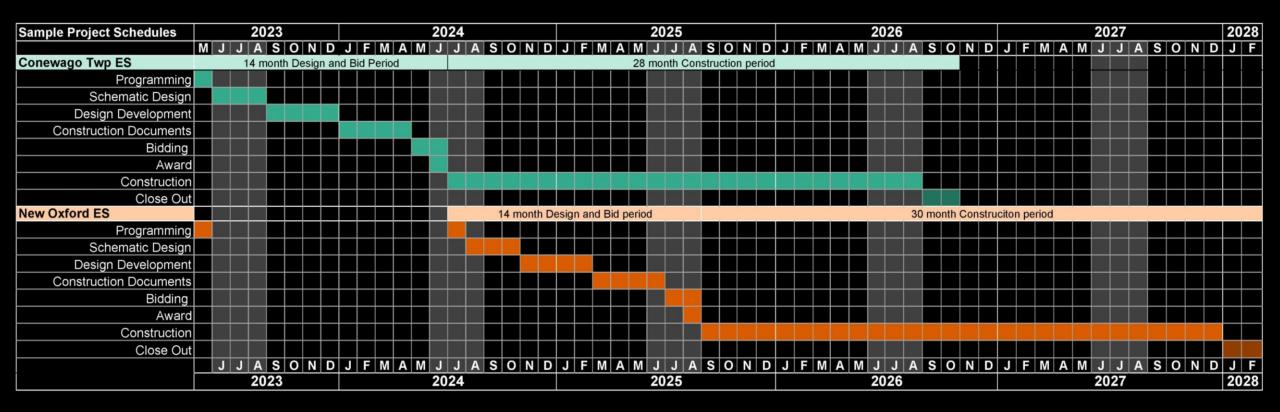
(4) Cost Estimates



NEXT STEPS

- 1. Board approves Option
- 2. District adopts planning number based on projected enrollment
- 3. Verification of Educational Program
- 4. Revisions, if needed, to Conceptual Design and Cost Estimates
- 5. Amendment to CRA contract for design services for CTE
- 6. Begin understanding of site approval process

PROJECT SCHEDULE



Note: Schedule is pending Municipal and Regulatory Agency Reviews



OPTION SUMMARY

OPTION 1: Renovate Existing Buildings

CTE & NOE Renovations & Additions to develop equitable schools

CVIS Limited Renovations

NOMS/HS Renovations

OPTION 2: One Campus Model

CTE & NOE New Construction of one K-3 School on Main Campus

CVIS Limited Renovations

NOMS/HS Renovations

OPTION 3: One Campus Model

New K-1 New Construction of K-1 Primary School on Main Campus

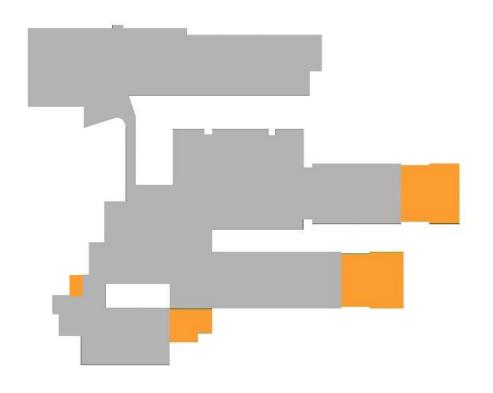
NOE Renovations & Additions to convert to 2nd-3rd Grades

CVIS Limited Renovations

NOMS/HS Renovations



SCOPE OF WORK - CTE



Exterior Envelope

- Window Replacement
- Brick repair
- Roof Fascia and Coping Replacement

Interior

- Secure Vestibule
- Renovations to Administration
- Standardize Classroom layouts
- Upgrade Restrooms
- Replace Casework, Doors, Flooring, Ceilings & Painting
- Natural daylight in all classrooms
- Address life safety code requirements (Egress through Library)

Building Systems

- New HVAC System
- Plumbing, lighting, and electrical upgrades

Building Additions

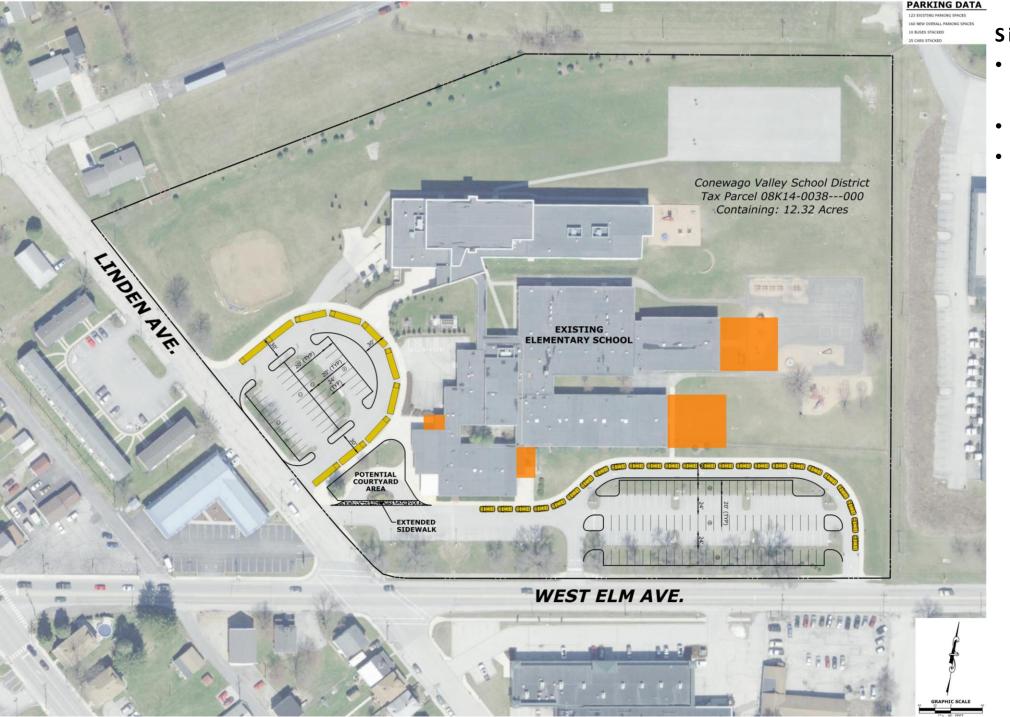
6 classroom addition with support spaces

Site Improvements

Separation of parent and bus drop-off

PROPOSED PLAN - CTE

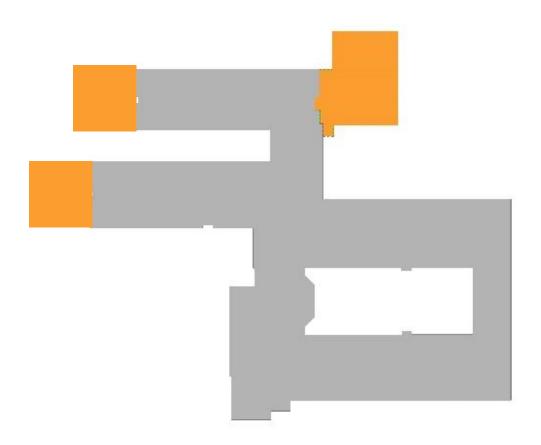




Site Development

- Add 40 new parking spaces
- 10 buses stacked
- 25 cars stacked

SCOPE OF WORK - NOE



Building Envelope

- Window replacement
- Roof Mitigation, Fascia & Coping

Interior Finishes

- Flooring repair or replacement
- New Casework & Sinks
- Replace Doors
- ADA compliant Rest Rooms

Building Systems

- New HVAC System
- Replace Automatic Temperature Control system
- Lighting and Electrical upgrades
- Plumbing fixture and piping replacement
- Hot Water Heater
- Dedicated Data Closets

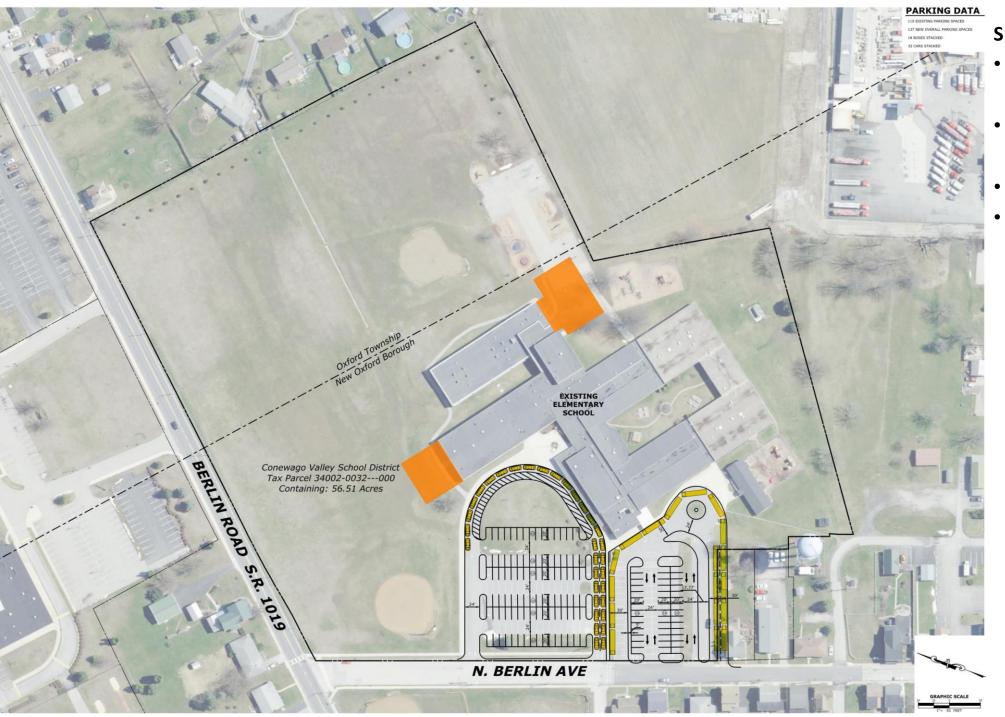
Site Improvements

- Increase Parent Drop-off access drive
- Repair asphalt paving and sidewalks

Building Additions

- New Gymnasium (Base Bid)
- 8 classroom addition and new toilet rooms





Site Development

- Relocate bus and parent drop-off
- Add 40 new parking spaces
- 18 buses stacked
- 24-32 cars stacked



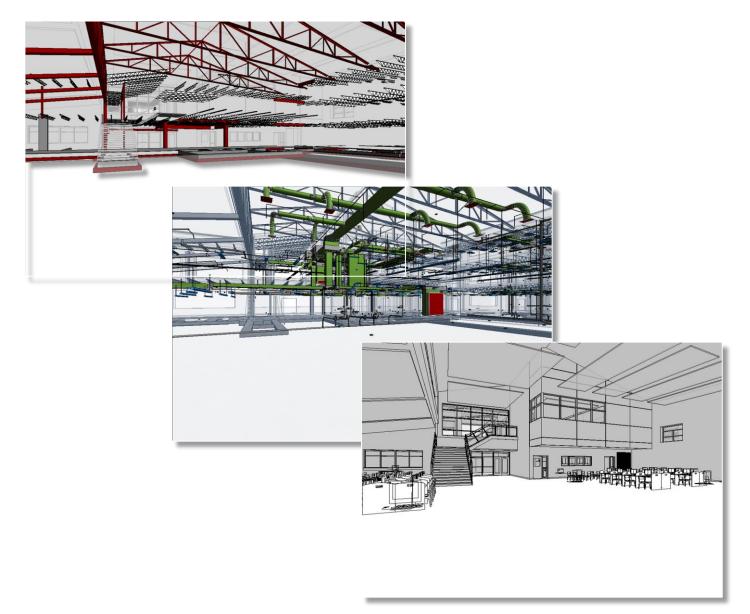
COST ESTIMATE SUMMARY

	OPTION 1		OPTIO	ON 2	OPTION 3			
	Add/Reno		New	K-3	New K-1			
Option Summary	Low	High	Low	High	Low	High		
CTE	\$24.2	\$27.0						
NOE	\$24.0	\$26.9			\$21.7	\$24.4		
SUBTOTAL	\$48.18	\$54.0						
New Elementary School			\$77.9	\$81.6	\$41.7	\$43.6		
CVIS	\$2.8	\$4.8	\$2.8	\$4.8	\$2.8	\$4.8		
MS/HS	\$23.1	\$25.5	\$23.1	\$25.5	\$23.1	\$25.5		
TOTAL	\$74.1	\$84.3	\$103.8	\$111.9	\$89.4	\$98.2		

^{*}Costs do not include Site Construction Costs

^{**} Costs do not include Classroom Modulars (4 Classroom 2 year lease - \$300,000 - \$375,000

MANAGING CHANGE ORDERS



CRA Change Order Budgeting

- New Construction: Less than 1%
- Additions/Renovations: 2-3 %
- Industry Standards: 4-6%
- Experienced Team
- REVIT Implementation since 2008
- Comprehensive review to ensure fair value

OPTION 1 COST ESTIMATE - CTE

Conewago Township Elementary						January 23, 2023
K-3 Additions & Renovations		COST RANGE				
Renovation Construction Costs	50,100 SF	\$	13,266,123		\$	14,592,735
Additions Construction Costs	14,600 SF	\$	3,790,691	0	\$	4,161,000
New Building Construction Costs		\$	4,600,909		\$	5,061,000
Site Construction Costs				1		
Escalation & Contingency	13%	\$	2,217,386	13%	\$	2,437,986
Subtotal Construction Costs		\$	19,274,199		\$	21,191,721
Construction Soft Costs	10.0%	\$	1,927,420	10%	\$	2,119,172
Total Construction Costs		\$	21,201,619		\$	23,310,893
Project Soft Costs	14.0%	\$	2,968,227	16%	\$	3,729,743
TOTAL PROJECT COSTS		\$	24,169,846		\$	27,040,635

^{*}Costs do not include Site Construction Costs

^{**} Costs do not include Fire Protection System

CTE OUTLINE SPECIFICATION

CTE RENOVATIONS

General Construction

Roof System:

- Replace roof system and insulation (if needed)
- · Replace metal fascia & coping

Exterior Walls:

- Selective masonry repair and brick re-pointing
- · Selective masonry cleaning at Kindergarten addition

Interior Partition:

New partitions in areas of major renovation – 8" painted cmu

Doors and windows:

- New operable aluminum windows
- · New aluminum storefront system and doors
- · New hollow metal doors and frames in service areas

Interior doors:

New solid core wood doors (if needed)

Hollow metal door frames:

Replace and/or repair/repaint hollow metal frames

Fire and smoke separations:

As where required by code

Security separations:

- Locations to be confirmed with owner
 - 1. Secure Vestibule @ new Administration area

Acoustic separations:

- · To be determined with owner
 - 1. Music?

Finishes

Corridors:

- Floors existing Terrazzo tile patch and repair as required. OR New LVT or porcelain tile
 over existing terrazzo tile. Existing VCT replacement TBD.
- Walls Existing decorative wainscot and brick veneer to remain. Block and plaster to be painted.
- · Ceilings new acoustical ceiling tile

Classrooms:

- Floor New carpet and/or LVT
- Walls Walls to be painted
- Ceilings New acoustical ceiling tile

Media Center:

Repurpose existing Multi-Purpose Room.

CLA:

Repurpose existing Media Center

Restrooms:

- Floor New ceramic tile or resinous flooring and base
- Walls Painted

· Ceilings - New acoustical ceiling tile

Administration/Guidance/Nurse:

New Administration Area

Kitchen:

· New flooring TBD

Multi-Purpose Room:

New finishes TBD

Miscellaneous Specialties:

- New fire extinguisher cabinets
- New building signage
- · New projection screens where needed
- New writing and visual display boards
- Visual display new writing and visual display boards in classrooms
- New toilet compartments
- New toilet accessories

Equipment:

- New stage curtains TBD
- Casework new casework in classrooms with plastic laminate/corian countertops
- Library shelving and furniture new furniture and wood shelving TBD
- Building furniture and moveable equipment desks, chairs, tables, etc to be provided by owner
- Music storage and equipment storage requirements to be verified with program instructor
- Kitchen Equipment TBD

HVAC

System:

- Consider alternative approaches to the HVAC to improve filtration and ventilation.
- Further test and evaluate HVAC piping system and replace valves.
- Provide air conditioning and ventilation in the corridors.

Automatic Temperature Control:

· Upgrade ATC system to meet current standards.

Plumbing

Sanitary Sewer System:

· Camera the older piping to verify condition of pipe below grade.

Domestic Water System:

- · Test the piping to determine the internal condition.
- Replace old valves to allow for zoned system maintenance and service.

Domestic Water Heater:

Upgrade the older domestic hot water plant.

Plumbing Fixtures:

- · Replace older fixture fittings.
- Upgrade to ADA where applicable.

Sprinkler System:

Consider adding sprinklers based on future use and needs.

Electrical

Electrical Distribution System:

None

Emergency Power:

 Rework the emergency power distribution to include two transfer switches and separate panels for life-safety power and optional emergency loads.

Lighting

 New automatic lighting controls should be provided from a system-wide approach. Any renovation project will require this to meet the energy code

Power

Replace or refinish surface raceway that has deteriorated.

Data/Communication/Technology

· Provided dedicated spaces with cooling for data racks.

rife Alaifi

Expansion required for new additions

Security

Card access and CCTV required for new additions.

OPTION 1 COST ESTIMATE - NOE

New Oxford Elementary						Date: 1/23/2023
K-3 Renovations & Gymnasium Addition		COST RANGE				
Renovation Construction Costs	68,600 SF	\$	11,196,091		\$	12,323,200
Additions Construction Costs	16,000 SF	\$	4,279,273		\$	4,720,000
MEP Renovation Construction Costs	SF	\$	1,183,636		\$	1,302,000
Site Construction Costs						
Escalation & Contingency	13%	\$	2,202,525		\$	2,426,996
Subtotal Construction Costs		\$	19,145,025		\$	21,096,196
Construction Soft Costs	10.0%	\$	1,914,503	10%	\$	2,109,620
Total Construction Costs		\$	21,059,528		\$	23,205,816
Project Soft Costs	14.0%	\$	2,948,334	16%	\$	3,712,930
TOTAL PROJECT COSTS		\$	24,007,861		\$	26,918,746

^{*}Costs do not include Site Construction Costs

^{**} Costs do not include Fire Protection System

^{***}Roof Deck Asbestos Abatement – 28,000 SF Estimated Roof replacement cost \$725,000 - \$850,000 (costs does not include asbestos abatement or temporary facilities)

NOE OUTLINE SPECIFICATION

NOE RENOVATIONS

General Construction

Hazardous Material Assessment:

Asbestos Abatement

Roof System:

- Replace roof system and insulation (if needed)
- Replace metal fascia & coping

xterior Walls

· Selective masonry repair and brick re-pointing

Interior Partitions:

New partitions in areas of major renovation – 8" painted cmu

Doors and windows:

- New operable aluminum windows
- New aluminum storefront system and doors
- New hollow metal doors and frames in service areas

Interior doors:

New solid core wood doors (if needed)

Hollow metal door frames:

Replace and/or repair/repaint hollow metal frames

Fire and smoke separations:

As where required by code

Security separations:

- · Locations to be confirmed with owner
 - 1. Administration

Acoustic separations:

- To be determined with owner
 - 1. Music?

Finishes

Corridors:

- Floors existing Terrazzo patch and repair as required. New LVT or porcelain tile in areas of extensive work
- Walls Existing decorative wainscot and brick veneer to remain. Block and plaster to be painted.
- Ceilings new acoustical ceiling tile

Classrooms:

- Floor New carpet and/or LVT
- Walls Walls to be painted
- Ceilings New acoustical ceiling tile

Media Center:

Repurpose existing Multi-Purpose Room.

CLA:

Repurpose existing Media Center

Restrooms:

- Floor New ceramic tile or resinous flooring and base
- Walls Painted
- · Ceilings New acoustical ceiling tile

Administration:

New finishes TBD

Kitchen:

New flooring TBD

Cafeteria:

- Floor new LVT or porcelain tile
- Stage Wood floor to be refinished
- Walls Existing walls to be painted
- Ceilings new acoustical tile ceiling

Miscellaneous Specialties:

- New fire extinguisher cabinets
- New building signage
- New projection screens where needed
- · New writing and visual display boards
- Visual display new writing and visual display boards in classrooms
- New toilet compartments
- · New toilet accessories

Equipment:

- New stage curtains
- Casework new casework in classrooms with plastic laminate/corian countertops
- Library shelving and furniture new furniture and wood shelving
- Building furniture and moveable equipment desks, chairs, tables, etc to be provided by owner.
- Music storage and equipment storage requirements to be verified with program instructor
- Kitchen Equipment TBD

HVAC

HVAC System:

- New HVAC system to permit direct humidity control and improve filtration and ventilation.
- Further test and evaluate HVAC piping system and replace valves.
- Install new HVAC in the gymnasium.
- Provide air conditioning and ventilation in the corridors.
- Upgrade ATC system to meet current standards.

Plumbing

Sanitary Sewer System:

Piping replacement

- Rework the drain lines serving the 1985 classroom sinks.
- Add floor drains in the gang toilet rooms.

Domestic Water System:

- · Test the piping to determine the internal condition.
- Replace old valves to allow for zoned system maintenance and service.

Domestic Water Heater:

- Replace the older water heater and storage tank.
- Replace the mixing valve.

Plumbing Fixtures:

- · Replace older fixtures and fittings; toilets, sinks, water coolers, hose bibs, etc.
- Upgrade to ADA where applicable.

Sprinkler System:

Consider adding sprinklers based on future use and needs.

Electrical

Electrical Distribution System:

None

Emergency Power:

None.

Lighting

- New automatic lighting controls should be provided from a system-wide approach. Any
 renovation project will require this to meet the energy code.
- The parking lot lighting should be evaluated while dark. Additional poles may be required for a better quality of lighting.

Power

- Classrooms have an adequate number of receptacles. Devices were added with surface raceway.
- · Ground-fault type receptacles are present where required.
- No work required unless additional receptacles needed.

Data/Communication/Technology

- The Cafeteria sound system should be removed if not being used.
- The projector in the gym is not protected from balls. A protective cage is suggested.
- Provided dedicated spaces with cooling for data racks.

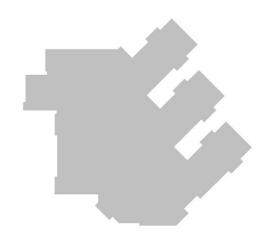
Fire Alarm

Expansion required for new additions

Security

· Card access and CCTV required for new additions.

CVIS



Building Exterior

Roof repair or replacement

Interior Finishes

Window Treatment replacement

Building Systems

- Replace Automatic Temperature Control system
- Replace Power Transfer Switch
- Replace Sanitary Sewer Lift Station

NOMS



Building Envelope

- New Doors and Windows
- Dock Repairs/Replacement

Interior Finishes

- New Casework
- New Whiteboards

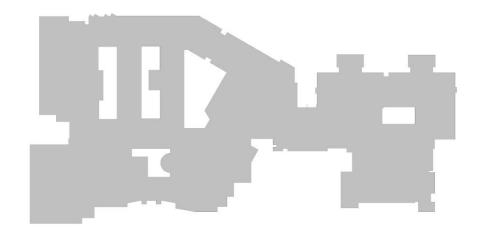
Building Systems

- A/C in Corridors
- Electrical upgrades
- Plumbing Fixture replacement
- Fire Alarm System upgrades
- Dedicated Data Closets

Site Improvements

- Asphalt Paving and Sidewalk repairs
- Improvements to drop-off drive-ways
- Additional Parking

NOHS



Interior Finishes

- New Casework
- Upgrade Locker Rooms

Building Systems

- A/C in Corridors
- Electrical upgrades
- Plumbing fixture and piping replacement
- Fire Alarm System upgrades
- Dedicated Data Closets
- Hot Water Heater
- Auditorium House Lights

Site Improvements

- Asphalt Paving and Sidewalk repairs
- Improvements to drop-off drive-ways
- Additional Parking

Questions?



Crabtree, Rohrbaugh & Associates www.cra-architects.com