

Washington Center for Deaf and Hard of Hearing Youth 21-23 Capital Budget Request

September 2020 / Agency 353

TAB A

Ten-Year Capital Program Summary

DAHP Review Letter and Exempt Project List

FTE Summary

(Not Applicable to 21-23 requests for CDHY)

Maintenance Backlog Reduction Plan



OFM

353 - Washington State Center for Childhood Deafness and Hearing Loss Ten Year Capital Plan by Project Class

2021-23 Biennium

Version: 23 21-23 Capital Budget Submission

Report Number: CBS001

Date Run: 9/12/2020 3:43PM

Proje	ect Class: Preservation									
Agency Priority		Estimated <u>Total</u>	Prior Expenditures	Current Expenditures	Reapprop <u>2021-23</u>	New Approp <u>2021-23</u>	Estimated <u>2023-25</u>	Estimated <u>2025-27</u>	Estimated <u>2027-29</u>	Estimated <u>2029-31</u>
1	30000047 21-23 Minor Works 057-1 State Bldg Constr-State	345,000				345,000				
Proje	ect Class: Program									
Agency Priority		Estimated <u>Total</u>	Prior Expenditures	Current Expenditures	Reapprop <u>2021-23</u>	New Approp <u>2021-23</u>	Estimated <u>2023-25</u>	Estimated <u>2025-27</u>	Estimated <u>2027-29</u>	Estimated <u>2029-31</u>
2	30000044 WSD Academic and 057-1 State Bldg 4 Constr-State	d PE Building 5,990,000	9			39,413,430	6,576,570			
Total	Account Summary									
	unt-Expenditure Authority Type		Prior Expenditures	Current Expenditures	Reapprop <u>2021-23</u>	New Approp 2021-23	Estimated <u>2023-25</u>	Estimated <u>2025-27</u>	Estimated <u>2027-29</u>	Estimated <u>2029-31</u>
057-1	State Bldg Constr-State	46,335,000				39,758,430	6,576,570			

OFM

Ten Year Capital Plan by Project Class

*

Report Number: CBS001

Date Run: 9/12/2020 3:43PM

Parameter	Entered As	Interpreted As
Biennium	2021-23	2021-23
Functional Area	*	All Functional Areas
Agency	353	353
Version	23-A	23-A
Project Classification	*	All Project Classifications
Include Enacted	No	No
Sort Order	Project Class	Project Class
Include Page Numbers	Υ	Yes
For Word or Excel	N	N
User Group User Id	Agency Budget *	Agency Budget All User Ids

MEMORANDIUM OF UNDERSTANDING BETWEEN THE

STATE OF WASHINGTON DEPARTMENT OF ARCHAEOLOGY AND HISTORIC PRESERVATION

STATE OF WASHINGTON DEPARTMENT OF ENTERPRISE SERVICES AND THE CENTER FOR DEAF AND HARD OF HEARING YOUTH FOR THE MITIGATION OF THE WASHINGTON SCHOOL FOR THE DEAF REDEVELOPMENT PROJECT

VANCOUVER, CLARK COUNTY, WASHINGTON

Recitals:

WHEREAS the Department of Enterprise Services (DES) is the development agency and the Center for Deaf and Hard of Hearing Youth (CDHY) is their client agency, and

WHEREAS DES, in consultation for the Department of Archaeology and Historic Preservation (DAHP) have determined that the proposed redevelopment will have adverse impact upon properties eligible for listing in the National Register of Historic Places (NRHP) as a Historic District, and

WHEREAS the consulting parties agree that it is in the public interest to expend public funds for the appropriate mitigation of the loss of historic properties, and

WHEREAS DES, in consultation with DAHP, shall ensure that the mitigation measures identified herein will be implemented in a timely manner, and with adequate resources, and

WHEREAS CDHY have previously provided DAHP with Archival Research (by Archaeological Investigations Northwest (AINW), and

WHEREAS completed Statewide Historic Property Inventory Forms have been previously provided to DAHP in electronic form.

NOW THEREFORE, it is agreed by and between the parties hereto as follows:

STIPULATIONS / MITIGATION PROCESS

- 1.) Research and Documentation
 - a. CDHY will complete/update the National Register of Historic Places Multiple Property Documentation (MPD) focusing on the life and work of Donald J. Stewart who was the Architect for many of the historic buildings on the WSD Campus. The MPD will document the life of Stewart and his main architectural designs. The MPD will contain photographs and a chronological listing of buildings designed by Stewart in the Vancouver and Portland area.

- b. In addition to the MPD CDHY will complete/update a National Historic Register Nomination Form for the Northrop Elementary School, a historically contributing campus building designed by Stewart. The Form will detail the historic significance of this building.
- c. The MPD and individual nomination outlined in the above stipulations shall be considered satisfied upon successful completion of the nomination process through the Washington State Advisory Council on Historic Preservation and formal listing in the National Register of Historic Places.

2.) Education and Information

- a. CDHY will prepare exhibits and displays of the subject buildings and incorporate this information in the existing "Alumni Museum" located in the Northrop Building. CDHY will seek assistance from historic agencies to develop this material and the Museum.
- b. CDHY will use the material in the MPD Form to augment the School History Chronology on its website.
- c. CDHY will seek input from DAHP regarding the content and design of the displays in the museum, and the website, prior to finalizing either project.

3.) Creative Reuse

WSD Superintendent

- a. DES will include the requirement in the design-build RFP to explore creative reuse of significant elements of the existing buildings in the new development. Any element of reuse should include educational signage and graphics giving the history and significance of the reused element. DES and CDHY shall continue consultation with DAHP regarding the design and ultimate construction and implementation.
- 4). All ground disturbing activities shall have an unanticipated discovery plan on site.

AGREED

For the State of Washington Department of Archaeology and Historic Preservation				
Ву:	Date:			
State Historic Preservation Officer				
For the State of Washington Department of Enterprise Services				
beparement of Enterprise services				
Ву:	Date:			
E & A S Project Manager				
For the State of Washington				
Center for Deaf and Hard of Hearing	Youth			
Ву:	Date:			



STATE OF WASHINGTON WASHINGTON CENTER FOR DEAF AND HARD OF HEARING YOUTH

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MEMORANDUM TO FILE WITH CAPITAL BUDGET SUBMITTAL

TAB A – Backlog Reduction Plan

The Washington Center for Deaf and Hard of Hearing Youth (CDHY) has adopted new methods to address its backlog capital needs. Unless identified as a major project (estimated costs exceeding \$1 million) all backlog needs are anticipated to be funded as minor works projects.

Prioritization Categories:

Health & Safety Educational Instruction Related Core Infrastructure Performance Based

Backlog Review Process

Step 1: Identify Capital Project Needs (Initial Criteria Assessment)

Step 2: Develop scopes of work and costs estimates

Step 3: Prioritize by impact, risk factors and material information available

Step 4: Select funding and implementation strategy

Step 5: Monitor and reassess until completion

Please contact Kai Matthews for additional information.

Kai Matthews Director of Business Operations WA Center for Deaf & Hard of Hearing Youth Washington School for the Deaf kai.matthews@cdhy.wa.gov

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TAB B

Capital Project Requests – Preservation

Capital Project Cost Estimate



2021-23 Biennium

Version:23 21-23 Capital Budget SubmissionReport Number:CBS002

Date Run: 9/12/2020 4:05PM

Project Number: 30000047

Project Title: 21-23 Minor Works
Project Class: Preservation

Description

Starting Fiscal Year: 2022 Agency Priority: 1

Project Summary

The Washington Center for Deaf and Hard of Hearing Youth is requesting funding for minor work preservation projects to preserve facilities at the Washington School for the Deaf campus located in Vancouver, Washington.

Project Description

The Washington School for the Deaf (WSD) serves as cultural hub to the deaf community, one of Washington's most underserved populations. In addition to being a educational institution with full residential services, WSD is also the headquarters for the Washington Center for Deaf and Hard of Hearing Youth. Founded in 1886 WSD has a recurring need for preservation efforts of campus facilities. This funding request is address various minor public works projects needed to safety and efficiency operate this vital space to deaf and hard of hearing students grades K-12.

Location

City: Vancouver County: Clark Legislative District: 049

Project Type

Facility Preservation (Minor Works)
Health, Safety and Code Requirements (Minor Works)
Infrastructure Preservation (Minor Works)

Growth Management impacts

This request is expected to have no growth management impacts.

Fund	ding					
Acct		Estimated	Expenditures Prior	Current	2021-23	Fiscal Period New
Code	Account Title	Total	Biennium	Biennium	Reapprops	Approps
057-1	State Bldg Constr-State	345,000				345,000
	Total	345,000	0	0	0	345,000
		Fı	ıture Fiscal Perio	ods		
		2023-25	2025-27	2027-29	2029-31	
057-1	State Bldg Constr-State					
	Total	0	0	0	0	

Operating Impacts

No Operating Impact

Narrative

All anticipated operating costs related to minor works projects can be absorbed with the agency's existing resources.

2021-23 Biennium

Version: 23 21-23 Capital Budget Submission Report Number: CBS002

Date Run: 9/12/2020 4:05PM

Project Number: 30000047

Project Title: 21-23 Minor Works
Project Class: Preservation

SubProjects

SubProject Number: 30000048

SubProject Title: HVAC Replacement - Student Cottages

SubProject Class Preservation

Starting Fiscal Year: 2022 Agency Priority: 1

Project Summary

CDHY is requesting funding to replace 20 year old HVAC units on residential buildings used by students that participate in the residential program at the Washington School for the Deaf.

Project Description

The HVAC unit currently servicing the one of the "cottages" is over 20 years old and was initially procured as a residential product instead of a commercial one. This request would update and standardize the HVAC equipment in the last outdated student housing unit. Given temperature shifts between summer and fall seasons this request is equally related to health in safety as well as preservation.

Location

City: Vancouver County: Clark Legislative District: 049

Project Type

Facility Preservation (Minor Works)

Health, Safety and Code Requirements (Minor Works)

Growth Management impacts

This request is expected to have no growth management impacts.

<u>Funding</u>			Expenditures			2021-23 Fiscal Period	
Acct Code	Account Title	Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps	
057-1	State Bldg Constr-State	150,000				150,000	
	Total	150,000	0	0	0	150,000	
		I	Future Fiscal Pe	riods			
		2023-25	2025-27	2027-29	2029-31		
057-1	State Bldg Constr-State						
	Total	0	0	0	0		

Operating Impacts

No Operating Impact

Narrative

Any operating costs associated with this project can be satisfied with existing resources.

2021-23 Biennium

Version: 23 21-23 Capital Budget Submission Report Number: CBS002

Date Run: 9/12/2020 4:05PM

Project Number: 30000047

Project Title: 21-23 Minor Works
Project Class: Preservation

SubProjects

SubProject Number: 30000049

SubProject Title: Parking Lot Repairs

SubProject Class Preservation

Starting Fiscal Year: 2022 Agency Priority: 1

Project Summary

Request funding to repave lower field parking lot that is in a state of disrepair due to wear and tear.

Project Description

The parking lot at our lower field near the school stadium has developed a series of plate sided pot holes. Rendering the space unusable for standard parking. In addition to large hoes, cracks and vegetation continue to pose a problem when trying to use this space.

Location

City: Vancouver County: Clark Legislative District: 049

Project Type

Facility Preservation (Minor Works)
Infrastructure Preservation (Minor Works)

Growth Management impacts

This request is expected to have no growth management impacts.

<u>Funding</u>			Expenditures			2021-23 Fiscal Period	
Acct Code	Account Title	Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps	
057-1	State Bldg Constr-State	100,000				100,000	
	Total	100,000	0	0	0	100,000	
		I	Future Fiscal Pe	riods			
		2023-25	2025-27	2027-29	2029-31		
057-1	State Bldg Constr-State						
	Total	0	0	0	0		

Operating Impacts

No Operating Impact

Narrative

Any operating costs associated with this project can be satisfied with existing resources.

SubProject Number: 30000050

SubProject Title: Clark Hall Fiber Upgrade

2021-23 Biennium

Version: 23 21-23 Capital Budget Submission **Report Number:** CBS002

Date Run: 9/12/2020 4:05PM

Project Number: 30000047

Project Title: 21-23 Minor Works
Project Class: Preservation

SubProjects

SubProject Number: 30000050

SubProject Title: Clark Hall Fiber Upgrade

SubProject Class Preservation

Starting Fiscal Year: 2022 Agency Priority: 1

Project Summary

CDHY is requesting funding to upgrade fiber optic cabling to the central administrative offices located in the Clark Hall building at the Washington School for the Deaf.

Project Description

The WSD campus fiber network has undergone various upgrades over the years with the central administrative building being the last. This funding request is to upgrade the fiber optic connection lines to the main administrative offices. Current Clark Hall experiences frequent slow, and/or unreliable connection that impacts basic internet services to both administrative staff on the first floor and students that reside on the upper floors of the building.

Location

City: Vancouver County: Clark Legislative District: 049

Project Type

Infrastructure Preservation (Minor Works)

Growth Management impacts

This request is expected to have no growth management impacts.

<u>Funding</u>			Expenditures			2021-23 Fiscal Period	
Acct Code	Account Title	Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps	
057-1	State Bldg Constr-State	70,000				70,000	
	Total	70,000	0	0	0	70,000	
		ı	Future Fiscal Per	riods			
		2023-25	2025-27	2027-29	2029-31		
057-1	State Bldg Constr-State						
	Total	0	0	0	0		

Operating Impacts

No Operating Impact

Narrative

Any costs associated with this project can be satisfied with existing resources.

2021-23 Biennium

Version: 23 21-23 Capital Budget Submission Report Number: CBS002

Date Run: 9/12/2020 4:05PM

Project Number: 30000047

Project Title: 21-23 Minor Works
Project Class: Preservation

SubProjects

SubProject Number: 30000051

SubProject Title: Pump House Replacement

SubProject Class Preservation

Starting Fiscal Year: 2022 Agency Priority: 1

Project Summary

CDHY is requesting funding to replace the pump house station that houses electrical lines and water pumps.

Project Description

The pump house is located at the stadium field, and is a simple structure that houses electrical lines and pump equipment that serve the water supply to the stadium and the irrigation system on the field itself. This pump house is in need of replacement due to the age of the existing structure. It is an uninsulated structure with no interior finishes so the current cost to repair or rebuild looks to be adequate. Given this structure secures both electrical and water supplies, this project is considered both a health and safety project in addition to preservation of the WSD campus.

Location

City: Vancouver County: Clark Legislative District: 049

Project Type

Facility Preservation (Minor Works)

Health, Safety and Code Requirements (Minor Works)

Growth Management impacts

This request is expected to have no growth management impacts.

<u>Funding</u>			Expenditures			2021-23 Fiscal Period	
Acct Code	Account Title	Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps	
057-1	State Bldg Constr-State	25,000				25,000	
	Total	25,000	0	0	0	25,000	
		ı	Future Fiscal Pe	riods			
		2023-25	2025-27	2027-29	2029-31		
057-1	State Bldg Constr-State				·		
	Total	0	0	0	0		

Operating Impacts

No Operating Impact

Narrative

Any operating costs associated with this project can be satisfied with existing resources.

OFM

Capital Project Request

2021-23 Biennium

<u>Parameter</u>	Entered As	Interpreted As
Biennium	2021-23	2021-23
Agency	353	353
Version	23-A	23-A
Project Classification	1	1
Capital Project Number	30000047, 30000048, 30000049, 3000	30000047, 30000048, 30000049, 3000
Sort Order	Project Class	Project Class
Include Page Numbers	Υ	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids

TAB C

Capital Project Requests (New or Expanded Programs)

Capital Project Cost Estimate



2021-23 Biennium

Version:23 21-23 Capital Budget SubmissionReport Number:CBS002

Date Run: 9/12/2020 4:13PM

Project Number: 30000044

Project Title: WSD Academic and PE Building

Project Class: Program

Description

Starting Fiscal Year: 2022 **Agency Priority**: 2

Project Summary

Bilingual Empowered-Successful for Today and Tomorrow-the BEST! The Washington School for the Deaf is the state of Washington's only ASL-English bilingual school for deaf and hard of hearing students. In 2009, The Washington State Center for Deaf and Hard of Hearing Youth (CDHY) was established to provide statewide leadership for the coordination and delivery of educational services to children who are deaf or hard of hearing. CDHY is an independent agency within the state of Washington. Its governing Board of Trustees and its Executive Director are appointed by the Governor. All activities of the Center are under the authority of the Executive Director and the Board of Trustees. Articulated in RCW 72.40.015 CDHY has three core mandates which include: To manage and direct the activities of the state school for the deaf (Washington School for the Deaf – WSD); Provide statewide leadership and support to coordinate regionally delivered educational services in the full range of communication modalities, for children who are deaf or hard of hearing (direct consultative and evaluation services); Expand system capacity at the local and statewide level by collaborating with appropriate public and private partners for the training and professional development of educators serving children who are deaf or hard of hearing (professional development). CDHY is the agency to which WSD belongs. The CDHY Board of Trustees oversees all programs and operations at WSD. The Superintendent of WSD reports to the CDHY Executive Director and participates at the table for all board meetings. The Superintendent is a member of the Governor's statewide Deputy Directors council for all state agencies. Washington School for the Deaf is a fully accredited school serving students in Pre-K through 12th grade. WSD offers: Free transportation and housing for residential students outside the greater Vancouver area A twenty-four hour learning environment Positive role models: approximately 75% of instructional and cottage staff is deaf Strong linguistic support for acquisition of American Sign Language and English Rich academic & cultural atmosphere Environment that encourages students to communicate freely, grow socially and emotionally, and achieve high standards Student organizations & extra curricular activities Competitive varsity sports, cheerleading and intramural sports Student leadership and social skills development that fosters citizenship, sportsmanship, and good moral character

Project Description

Summary

The WA Center for Deaf and Hard of Hearing Youth (CDHY) campus has been attempting to update teaching facilities for over 20 years. The development proposals have undergone scrutiny and varying levels of support as they move through the review and approval processes. Today we are presenting a request to build a new classroom and gymnasium to serve the deaf community of students.

CDHY undertook several initiatives between June 2000 and July 2001 that involved WSD staff, the architect, and the education consultant from Oregon State University, who developed the Learning Plan®. The goal was to continue to explore the content, structure, and delivery model of deaf education to students, and to the adult population of Washington State, using the Predesign 2000 document as the starting point. That exploration resulted in the evolved program and design presented in prior reports.

Meetings with the Staff and Administration were conducted between September 2000 and May 2001 to begin the process of challenging assumptions and preconceptions about the traditional way of viewing classrooms and teacher assignments as fixed entities. The staff was asked to consider the nature of curriculum and teaching without constraints. The mission of providing a truly meaningful education to each student in a safe and supportive learning environment is at the heart of every decision made in shaping the curriculum and campus.

The Learning Plan® was completed in August 2001, and it grounded the CDHY curriculum in the needs of the deaf and hard-of hearing students. CDHY students, staff, and the architect spent the Fall of 2001 updating the Program and Master Plan to create the Concept Campus Plan in response to the Learning Plan®. The process of testing the components of the Master Plan resulted in a 7% reduction (now a 38% reduction) in gross square feet and the accompanying lowering of the construction cost, when compared to the original Predesign. The long-term goals also identified the need to provide more space for outreach and community-oriented programs and to increase the size of the Gymnasium required by a K-12 school.

In preparing this update SRG met with the Superintendent, Principal, Facilities Dept and DES representative to further refine the program document. This refinement focuses on the current student class size and teaching spaces required for instruction. Safety and security of students guided decisions about interior and exterior circulation configurations that promote casual and deliberate observation of public and private spaces.

The Conceptual Campus Plan forms learning environments clustered around the library. The plan creates a flexible setting that

2021-23 Biennium

Version: 23 21-23 Capital Budget Submission Report Number: CBS002

Date Run: 9/12/2020 4:13PM

Project Number: 30000044

Project Title: WSD Academic and PE Building

Project Class: Program

Description

can readily respond to differing educational needs, and a mix of grade levels over time, and allows for future expansion. Careful consideration of internal operations has resulted in efficiencies that reduce the program area, and reduce time and staff required to monitor student movement. The campus has been organized to support the efforts of teachers and staff as they strive to deliver the highest quality student learning experience possible.

- The updated campus' Cultural Core is anchored by the Library, Gymnasium and existing Multipurpose Hall that form the traditional heart of campus communities. This cultural core will provide opportunities for the students to see that they are part of a significant deaf community.
- · CDHY's Outreach Program is seen as a vital part of involving the larger deaf community throughout the State. Programs that bring the outside community to the school and take the students out into the surrounding community will form bridges that give the students a sense of themselves, life-skills, and the confidence to participate fully in society. The existing facilities are outdated, unsafe and preclude the kinds of instruction envisioned in the Learning Plan®. The substandard nature of the buildings has limited CDHY's attractiveness to new students and may be responsible for enrollment declines. Extensive analysis of existing facilities deficiencies reveals that the cost of renovation would exceed the cost of new construction. Therefore, the compelling choice is to provide new facilities that support the Learning Plan®, provide an appropriate learning environment, and create a campus that establishes a sense of community, while also minimizing capital and future operating costs.

The vision for the future of CDHY is taking shape. The new residential cottages were the first step, the renovation of Clarke Hall provided for the consolidation of key functions to allow redevelopment of the academic portion of the campus, the construction of Kastel provided needed replacement of the food service facilities. The replacement of instructional and essential support facilities is the next and most vital step in shaping the future of CDHY.

The needs are acute, and the planning process has engaged representatives from parent groups, alumni, local and statewide deaf community, local public schools, educational service districts, community colleges, the neighborhood associations, city and county government, and other state agencies, in shaping the many dimensions of an extraordinary vision for the future.

1. Implementation Approach

Project management and delivery method alternatives considered include Design-Bid-Build, GC/ CM and Design Build. These 3 delivery methods were discussed with CDHY early in this predesign update process. The team understands DES prefers a Design Build delivery method. To ensure a successful Design Build project we recommend a Progressive Design Build Selection. CDHY is a closed campus with students living on site. It will be important to describe in the procurement documents the unique characteristics of a deaf campus to ensure student safety and campus security is maintained.

2. Alternatives

The three alternates to be addressed in this section; renovation of existing facilities, construction of new facilities, or leasing of off campus facilities – to be provided by CDHY first week of September

Location

City: Vancouver County: Clark Legislative District: 049

Project Type

New Facilities/Additions (Major Projects)

2021-23 Biennium

Version: 23 21-23 Capital Budget Submission **Report Number:** CBS002

Date Run: 9/12/2020 4:13PM

Project Number: 30000044

Project Title: WSD Academic and PE Building

Project Class: Program

Description

Growth Management impacts

The new facility will greatly reduce the agency maintenance backlog associated with outdated, structurally unsound and cold closure buildings.

New Facility: Yes

How does this fit in master plan

CDHY students, staff, and the architect spent the Fall of 2001 updating the Program and Master Plan to create the Concept Campus Plan in response to the Learning Plan®. The process of testing the components of the Master Plan resulted in a 7% reduction (now a 38% reduction) in gross square feet and the accompanying lowering of the construction cost, when compared to the original Predesign. The long-term goals also identified the need to provide more space for outreach and community-oriented programs and to increase the size of the Gymnasium required by a K-12 school.

Funding

		Expenditures			2021-23 Fiscal Period	
Acct Code	Account Title	Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	45,990,000				39,413,430
	Total	45,990,000	0	0	0	39,413,430

Future Fiscal Periods

		2023-25	2025-27	2027-29	2029-31
057-1	State Bldg Constr-State	6,576,570			
	Total	6,576,570	0	0	0

Schedule and Statistics

	Start Date	End Date
Predesign	12/01/2018	07/01/2019
Design	7/1/2021	6/1/2022
Construction	7/1/2022	5/1/2024

Gross Square Feet: 60,000
Usable Square Feet: 43,500
Efficiency: 72.5%
Escalated MACC Cost per Sq. Ft.: 586

Construction Type: Schools (primary and secondary)

Is this a remodel? No
A/E Fee Class:

A/E Fee Percentage:

6.59%

Cost Summary

2021-23 Biennium

Version:23 21-23 Capital Budget SubmissionReport Number:CBS002

Date Run: 9/12/2020 4:13PM

Project Number: 30000044

Project Title: WSD Academic and PE Building

Project Class: Program

	Escalated Cost	% of Projec
Acquisition Costs Total	0	0.0%
Consultant Services		
Pre-Schematic Design Services	180,000	0.4%
Construction Documents	0	0.0%
Extra Services	303,270	0.7%
Other Services	418,440	0.9%
Design Services Contingency	168,261	0.4%
Consultant Services Total	3,457,872	7.5%
aximum Allowable Construction Cost(MACC)	35,157,686	
Site work	6,791,048	14.8%
Related Project Costs	1,120,644	2.4%
Facility Construction	27,245,994	59.2%
GCCM Risk Contingency	0	0.0%
GCCM or Design Build Costs	0	0.0%
Construction Contingencies	1,766,501	3.8%
Non Taxable Items	0	0.0%
Sales Tax	3,101,631	6.7%
Construction Contracts Total	40,025,817	87.0%
Equipment		
Equipment	1,773,558	3.9%
Non Taxable Items	0	0.0%
Sales Tax	148,979	0.3%
Equipment Total	1,922,537	4.2%
Art Work Total	195,662	0.4%
Other Costs Total	204,760	0.5%
Project Management Total	183,068	0.4%
Grand Total Escalated Costs	45,989,716	
Rounded Grand Total Escalated Costs	45,990,000	

Operating Impacts

No Operating Impact

2021-23 Biennium

Version: 23 21-23 Capital Budget Submission **Report Number:** CBS002

Date Run: 9/12/2020 4:13PM

Project Number: 30000044

Project Title: WSD Academic and PE Building

Project Class: Program

Operating Impacts

Narrative

CDHY currently has a base budget of over \$700,000 for facilities and operations and anticipates that any operating costs associated with the construction of this building can absorbed with existing resources.

OFM

Capital Project Request

2021-23 Biennium

<u>Parameter</u>	Entered As	Interpreted As
Biennium	2021-23	2021-23
Agency	353	353
Version	23-A	23-A
Project Classification	*	All Project Classifications
Capital Project Number	30000044	30000044
Sort Order	Project Class	Project Class
Include Page Numbers	Υ	Yes
For Word or Excel	N	N
User Group	Agency Budget	Agency Budget
User Id	*	All User Ids





New Academic & Physical Education Building

Center for Deaf and Hard of Hearing Youth

Project # 2018-173 OFM # 3000036

PREDESIGN

JULY 1, 2019



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	6.4	Demolition Study	

SECTION 1 – EXECUTIVE SUMARY

A. PROBLEM STATEMENT

1. Critical mission and responsibilities

The Washington School for the Deaf (WSD) has provided educational and residential services to students with deafness and hearing loss since 1886. In 2009, with the passage of RCW 72.40.015, the WSD was charged by the legislature to promote the development of communication-rich learning environments for deaf and hard of hearing students. The WSD is a fully accredited residential school serving students in Pre-K through 12th grade and is the state's only ASL-English bilingual school for deaf and hard of hearing students.

To fully support deaf children's linguistic, cognitive, social and emotional development, WSD provides a comprehensive educational program that includes a commitment to promoting the acquisition, maintenance and study of American Sign Language (ASL) and English for all deaf and hard of hearing children.

2. Aging and ineffective facilities

In 2002 the Joint Legislative Audit and Review Committee (JLARC) found that WSD campus needed substantial capital investment to effectively accomplish its mission. It stated that many buildings were "older and in various stages of disrepair," and basic infrastructure upgrades were needed to insure that deaf and hard of hearing students have access to the full variety of active learning spaces and learning technologies provided to most Washington students in the school districts.

Except for limited projects supporting residential and student life, the campus has had no new academic buildings on campus in over three decades. The available academic facilities on campus are outdated or unsafe and do not adequately support the kinds of instruction envisioned by the legislature. Built in 1937, the facility has significant seismic weakness which, combined with aged-out mechanical and plumbing systems, poor configuration, and multitude of condition defects, make renovations/rehabilitation difficult and expensive. Divine High School is a single-story wood-framed building completed in 1975. Its major systems are past their intended service life and its configuration and condition lack the flexibility to become the communication-rich learning environment envisioned by the legislature.

The Washington State Institute for Public Policy identified both Hunter Gym and Divine High School as being in poor condition and identified them to be demolished/replaced.

3. Impact on mission accomplishment

a. Accreditation

In its 2015 accreditation visit, the CEASD (Conference of Educational Administrators of Schools & Programs for the Deaf) identified the need for additional educational facilities to accommodate an academic program that fully reflects the school's mission and that provides the broad range of needed classroom spaces, including technology capabilities. They noted that WSD has several buildings on campus that need to be razed, and some buildings that need to be upgraded.

In their 2014 accreditation visit, the AdvancedED, (a national school accreditation agency) scored WSD lower than the average score on facilities, service, and equipment (3.0 agains 3.11 national average). They



also scored very low on technology infrastructure that can provide access to media, digital resources and information systems for the unique learning needs of sensory-impacted students. They noted the need to improve the technology infrastructure of all academic spaces.

b. Classroom Environment

Excessive auditory and visual stimuli can distract students and reduce their focus on academic tasks. Classrooms in Divine High School have inherent deficiencies due to their physical arrangement that does not effectively accommodate issues such as flexible seating arrangements for visual connectivity, adjustable lighting, the necessary technology infrastructure, adequate acoustics and effective ventilation.

c. Physical Education Space

It is critical for deaf and hard of hearing students to have access to a gym and activity spaces that accommodate effectiveness in PE and sport pursuits. Just like the classroom environment, communication strategies and instructional techniques for deaf students, including coaching and physical education teaching strategies, require facilities that are not present or are compromised by age and condition in the existing Hunter Gym. These include adjustable lighting, technology infrastructure, tuned acoustics and effective ventilation systems. Also impacting the ability to provide physical education to WSD students is the small size of the Hunter Gym, which totals only 7,600-gsf. The quantity and quality of needed physical education space to support the WSD mission is grossly below standards with the current Hunter Gym.

B. OPPORTUNITY

With renewed focus to ensure continued service to the community of deaf students that attend this school, the opportunity of this proposal is to remove the unsafe, unoccupied and ineffective buildings and construct a new high school classroom and gymnasium building at the heart of the WSD campus. This project will result in WSD being able to offer modern educational facilities that provide the broad range of needed learning environments and technical capabilities and systems that fully reflect the school's mission and accomplish the vision of the legislation contained in RCW 73.45.4.

C. ALTERNATIVES CONSIDERED

1. Do Nothing

The Center for Deaf and Hard of Hearing Youth (CDHY) has been suffering from the do-nothing alternative for past 20 years. No action will continue the status quo of students and teachers getting by with sub-standard facilities.

<u>Advantages</u>

- The option to do nothing does have the lowest first cost.
- Adjacency to other WSD functions will be maintained.

<u>Disadvantages</u>

• Doing nothing will inhibit the WSD's ability to provide effective learning environment to their high school students and PE facilities to the entire K-12 student body.

WSD Academic and Physical Education Building

• Existing inadequate, inefficient, and unsafe conditions would continue.

2. Lease Equivalent Space Off-Campus

In this option, the CDHY would demolish the existing buildings in two-phases and lease off-campus facilities that could provide the needed spaces. As WSD is a residential campus, this option will require providing transportation between sites.

Advantages

• The need for capital would be spread over 30-years.

Disadvantages

- There is no suitable equivalent space in proximity to the WSD campus requiring a develop and lease option at higher initial costs.
- Finding suitable-sized land in proximity to the campus will require a considerable amount of time, thus expanding the overall project schedule.
- The need to provide transportation between separate sites would increase operational costs and decrease effective learning time for the students.
- Remote location will require duplication of some student services, increasing operating costs.
- Removing Divine High School from the campus would weaken social and aspirational connection to the K-8 students remaining on campus.
- The lack of on-campus physical education and will continue to hamper student recruitment.
- This option presents the highest life-cycle cost of all alternatives.

3. Renovate and Expand on the Existing Campus

In this option, the CDHY would develop a multiple phase project where the existing Hunter Gym and Divine High School are renovated and expanded. It will require a minimum of three construction phases to fully execute.

<u>Advantages</u>

• Adjacency to other WSD functions will be maintained.

<u>Disadvantages</u>

- The existing high school and gym operations would need to continue during construction as there is no "flex" space on campus to relocate these functions. Construction in very close proximity will have severe negative impact to the learning environments and effectiveness.
- The seismic issues in the Hunter Gym will increase typical remodel costs due to unreinforced masonry, its high volume and long clear spans.
- Three-phased construction will stretch the project over multiple biennium leading to greater cost escalation.
- The basic "bones" of the 44-year old Divine High School are not suitable for continued use for the minimum target service life of another 30 years.



4. Construct New Academic and Physical Education Building on the Existing Campus

In this option, the CDHY would develop a two-phase project where the existing Hunter Gym and Divine High School remain in operation while the older abandoned campus buildings are removed and a new classroom and gym building is constructed. Occupying the new building, the existing Hunter Gym and Divine High School buildings will be removed and their portion of the campus developed into a sports/PE field.

Advantages

- Provides new space with purpose-designed spaces supporting ASL/Bilingual education with the flexibility and technology infrastructure needed to support visual-intensive deaf education pedagogy.
- The new gym will have adequate size for a regulation high school court. It will also allow consolidation of fitness functions that are currently located in an unsuitable building.
- The new building will have significantly lower operating and energy costs than renovated buildings.
- This option leaves adequate site open to enable construction of suitable outdoor recreations and sports facilities.
- This option provides better adjacency and functional proximity to the rest of the WSD campus by bringing functions into the center of campus.
- Removes hazards of vacant and unsafe building at the heart of campus.
- Enables improvement to below-grade utility infrastructure at core of campus which was constructed in a disjointed manner over decades as individual projects were developed.
- Keeps vehicular circulation to the perimeter of campus.

Disadvantages

• Has high infrastructure costs to clear the central campus of "spaghetti" utilities and vacant/hazardous buildings.

D. PREFERRED ALTERNATIVE

The proposed solution is to implement a phased project that begins with the concurrent detailed design of the new building and the demolition of the four existing core buildings that have been vacated. This phase will also reroute utilities to open the core site for the new building. The second phase would be the construction of a new 60,000-gsf Classroom/Gym building while the existing Divine High and Hunter Gym remain in service. After completion of the new building, the vacated Divine High School and Hunter Gym will be demolished, and a new sports/PE field will take its place.



E. PROJECT COST

The C-100's for both project phases (Attachment 6.1) identifies the Total Project Costs for the project at \$55,934,000 (escalated to mid-point of construction) broken down as follows:

Phase-I Demolition & Site Preparation (rounded)

TOTAL PHASE-I	\$ 5,423,000
Other Costs	\$ 32,000
Agency Project Administration	\$ 87,000
Construction	\$ 4,518,000
Consultant Services	\$ 786,000

Phase-II Building & Site Development (rounded)

TOTAL PHASE-II	\$ 50,511,000
Other Costs	\$ 136,000
Agency Project Administration	\$ 297,000
Artwork	\$ 196,000
Equipment/FF&E	\$ 2,143,000
Design & Construction	\$ 46,689,000
Consultant Services	\$ 1,050,000

Center for Deaf and Hard of Hearing Youth WSD Academic and Physical Education Building

PREDESIGN REPORT

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SECTION 2 - PROBLEM STATEMENT

A. GENERAL

1. Critical mission and responsibilities

The Washington School for the Deaf (WSD) has provided educational and residential services to students with deafness and hearing loss since 1886. In 2009, with the passage of RCW 72.40.015, the WSD became operationally connected to the Center for Dead and Hard of Hearing Youth (CDHY) a statewide resource committed to ensuring all deaf and hard of hearing students in Washington reach their full potential regardless of where they live or attend school.

The legislative intent of the RCW is to promote the development of communication-rich learning environments for deaf and hard of hearing students. As a key mission element of the CHDY, the WSD is a fully accredited residential school serving students in Pre-K through 12th grade and is the state's only ASL-English bilingual school for deaf and hard of hearing students.

To fully support deaf children's linguistic, cognitive, social and emotional development, WSD provides a comprehensive educational program that includes a commitment to promoting the acquisition, maintenance and study of American Sign Language (ASL) and English for all deaf and hard of hearing children.

2. Aging and ineffective facilities

In recent years, concerns about program effectiveness, student safety, and the physical condition of the school's facilities have focused attention on the lack of capital development on the WSD campus, specifically in the academic and supporting functional buildings. In 2002, as part of a series of studies on WSD, the Joint Legislative Audit and Review Committee (JLARC) found that the WSD campus needed substantial capital investment to effectively accomplish its mission. It stated that many buildings were "older and in various stages of disrepair" and basic infrastructure upgrades were needed. In developing the CDHY, the Legislature noted that over the past fifty years, there have been numerous advances in technology as well as a growing awareness about the importance of delivering services to children in a variety of communication modalities to support their early and continued access to communication. Clearly, they intended that deaf and hard of hearing students have access to the full variety of active-learning spaces and learning technologies provided to most Washington students in the school districts.

Except for the Kastel Building, completed in 2009, and the residential cottages completed in 1999, most academic facilities on campus are outdated or unsafe and do not adequately support the kinds of instruction envisioned by the legislature and defined by the CDHY Strategic Plan. The oldest actively used facility on campus is the Hunter Gym. Built in 1937, the facility has significant seismic weakness which, combined with aged-out mechanical and plumbing systems, poor configuration, and multitude of condition defects, make renovation/rehabilitation difficult and expensive. In their 2006 report on the WSD, the Washington State Institute for Public Policy identified Hunter Gym as Seismically Unstable and identified it to be demolished/replaced.



Divine High School is a single-story wood-framed building completed in 1975. Its construction budget was limited, even for 1974, and it was built with the expectation of a 30-year lifespan. Consequently, its major systems are past their intended service-life. More impactful to the program, its configuration and condition lack the flexibility to become the communication-rich learning environment envisioned by the legislature. The Washington State Institute for Public Policy identified Divine High School as being in poor condition and identified it to be demolished/replaced.

In summary, all the facilities identified in this project for demolition and replacement suffer from one or more of the following deficiencies:

- Seismic risk
- Life/Safety
- Fire protection
- Accessibility
- Hazardous materials
- Poor energy efficiency
- Inadequate electrical systems
- Inadequate mechanical systems
- Poor functionality

Of concern are the four vacant, unsafe, and dangerous buildings at the center of the WSD Campus that were subject of the pre-demolition study in Appendix 6.4. These buildings have significant structural deficiencies, hazardous materials contamination, and are located where nearly all students must move directly adjacent to them to access operational campus facilities.

3. Impact on mission accomplishment

a. Accreditation

Accreditation of the WSD is a critical element to its success. If accreditation is lost, the credibility of the WSD in the eyes of the public decreases. Resource utilization such as campus facilities and technology infrastructure are two indicators within a broad category; WSD's scores in this area will only continue to decrease with time due to the aging buildings and deteriorating campus which could eventually impact their accreditation status.

In its 2015 accreditation visit, the CEASD (Conference of Educational Administrators of Schools & Programs for the Deaf) noted that the WSD facilities met the standard for facilities in support of accreditation. They also identified the need for additional educational facilities to accommodate an academic program that fully reflects the school's mission and that provides the broad range of needed classroom spaces, including technology capabilities. They noted that WSD has several buildings on campus that need to be razed, and some buildings that need to be upgraded.

In their 2014 accreditation visit, the AdvancedED evaluators scored WSD lower (3.0) than the national average score (3.11) on facilities, service, and equipment. They also scored very low on technology infrastructure that can provide access to media, digital resources and information systems for the unique learning needs of sensory-impacted students. They noted the need to improve the technology infrastructure of all academic spaces.

WSD is due for accreditation renewal in 2021.



b. Classroom Environment

An effective classroom that can support ASL education needs to provide deaf students elements to facilitate their learning process and modalities, as much as possible eliminating the obstacles created by lack of hearing and allowing them to have the same access to learning as a hearing student. Classrooms in the Divine High School have inherent deficiencies due to their physical arrangement that does not effectively accommodate issues such variable seating arrangements for visual connectivity, adjustable lighting, the necessary technology infrastructure, acoustics that do not interfere with hearing, as well as operable and quiet ventilation systems. Excessive auditory and visual stimuli in the environment at Divine High School can distract students and reduce their focus on academic tasks.

c. Physical Education/Health Space

All people, regardless of ability, need to be able to participate in physical activity for their physical, social, and emotional health. Extracurricular activities and sporting events are very important for the overall educational and social experience of a child, and this is particularly true in the high school environment. It is important for deaf and hard of hearing students to have access to a gym and activity spaces that accommodate effectiveness in PE and sport pursuits. Just like the classroom environment, communication strategies and instructional techniques for deaf students, including coaching and physical education teaching strategies, require facilities that are not present or are compromised by age and condition in the existing Hunter Gym. These include adjustable lighting, the technology infrastructure, effective acoustic attenuation as well as operable and quiet ventilation systems.

Also impacting the ability to provide physical education to WSD students is the small size of the Hunter Gym which totals only 7,600-gsf. Allowing for a standard basketball court and supporting locker rooms, fitness spaces, etc. a functional gymnasium space for a K-12 school of the WSD size would typically contain 18,000-20,000-gsf (OSPI Prototypical Model, DoDOE guidelines, etc.). The quantity and quality of needed physical education space to support the WSD mission is grossly below standards with the current Hunter Gym.

B. PROJECT OPPORTUNITY

The WSD and CDHY have been attempting to update their teaching facilities for over 20 years. These earlier development proposals have undergone scrutiny and varying levels of support as they move through the review and approval processes. With renewed focus to ensure continued service to the community of deaf students that attend this school, the opportunity of this proposal is to remove the unsafe, unoccupied and dangerous buildings from the center of campus and construct a new school classroom and gymnasium building, which will become the new heart of the WSD campus. This project will result in WSD being able to offer modern educational facilities that provide the broad range of needed learning environments and technical capabilities and systems that fully reflect the school's mission and accomplished the vision of the legislation contained in RCW 73.45.4.

By its physical attachment to the Kastel building and its central campus location, this project will connect classrooms, teaching spaces, and instructional areas with the new gymnasium and existing food service to bring all CDHY students together under a single roof. It will also provide a multi-use sports/soccer field adjacent to the school.

Through this project, deaf and hearing loss students at all grade levels will benefit from having access to environments that are specifically designed and configured to maximize learning opportunities of students



with a wide range of characteristics and needs. These new spaces will eliminate barriers and negative impacts to teaching and learning in an ASL/bilingual environment while supporting academic rigor of the WSD curricula.

The opportunity will also enable the State to provide equivalent classroom and physical educations facilities to all students regardless of capabilities.

C. **PROGRAM RESPONSE**

In order to address the need to provide modern educational facilities that provide the broad range of needed learning environments and technical capabilities and systems at all grade levels, the proposed project will result in a new academic and gym building totaling 60,000-gsf and serving up to 120-FTE students from Pre-School through 12th grade. The proposed project will also provide space for 44 FTE faculty and staff.

D. **PROJECT DRIVERS**

Children and youth who are deaf and hard of hearing have significant and unique educational needs. The recent and planned campus development at CDHY is planned to respond to these needs. The residential cottages completed in 2001 were the initial step in providing a modern campus designed from the ground-up to support bilingual deaf education. The renovation of Clarke Hall in 2005 provided for the consolidation of key functions to allow redevelopment of the academic portion of the campus. The last capital development to support this goal was the construction of Kastel Hall in 2010. It provided needed replacement of the food service facilities as well as support and facilities space serving the entire campus.

The replacement of instructional and essential support facilities as proposed in this predesign is the next and most vital step in shaping the future of CDHY and providing the school the facilities it needs to meet its mission.

1. Program Needs

To ensure that the full range of program needs were addressed, the CDHY team undertook a planning process that engaged representatives for all current and potential stakeholders. The planning sessions engaged parent groups, alumni, the local and statewide deaf community, local public schools, educational service districts, community colleges, the neighborhood associations, city and county government, and other state agencies. This wide sourcing of input has been key in shaping the many dimensions of an extraordinary vision for the future of Deaf Education in Washington State. The program needs that the proposed project addresses include:

Student Satisfaction and Safety

Insuring students have a positive experience in the CAMT as well as protecting their health and safety are high priorities.

Flexibility

The facility should provide a high degree of flexibility to accommodate inevitable change in programs, equipment, pedagogy, and technology.

Supporting Multi-level Instruction in Classrooms

Team-teaching is required for different ages and abilities at the same grade level in individual classrooms.



Flexibility in the Learning Environment

One size does not fit all. Instruction, assistive technology and accommodations need to be individually designed and available in all learning environments to help deaf or hard of hearing students use their strengths to become confident, independent and full participants in their educational experiences.

Eliminate Restrictive Environment

The learning environment for bilingual deaf education is restrictive unless it provides full, direct and clear access to meaningful language, communication, instruction and social opportunities designed to meet the individual educational needs of the deaf or hard of hearing student.

Supporting Outreach

The rapid increase in outreach and community-related programs supporting deaf education, such as SW Center for the Deaf, Early Intervention Parent Education Program, and other programs, require dedicated support and lab space, which is not available in the existing school.

Staff Support in the Learning Environment

Centralized staff support space reduces the number of staff positions required for required supervision. Having centralized support staff in a new facility will also promote learning effectiveness through improved communication and decrease the overall non-academic space needed.

Physical Education at all Grade Levels

All people, regardless of ability, need to be able to participate in physical activity for their physical, social, and emotional health. It is important for deaf and hard of hearing students to have the same access to facilities supporting physical education that hearing students have at all grade levels. The small size of the Hunter Gym and its limited support facilities limit the ability to integrated PE into all grades.

Energy and Environment

The project is expected to be a high-performance building attaining LEED Silver certification. Energy saving measures with reasonable life-cycle paybacks should be used (see Section 4. Design Program - Narratives for further sustainability goals and technical requirements). Attention must be paid to internal air quality, especially in the labs (through material selection and mechanical system design).

Active Design

To encourage student and faculty health and wellbeing, the project should encourage movement and healthy activities through strategies such as visible and attractive stairs, wayfinding signage that promotes stair use, and attractive open space.

2. Facility Needs

Condition

Conditional issues with the existing Hunter Gym and Divine High School which negatively impact their ability to meet the stated facilities needs include:

<u>Seismic risk</u> – Exterior walls of Hunter Gym are unreinforced brick masonry which poses significant life safety threats to building occupants. There is visible cracking noted on all exterior walls. In an earthquake, the unreinforced masonry could break apart. This failure would result in loss of support for portions of the roof, possibly leading to collapse.

<u>Inadequate electrical systems</u> –Branch panels are scattered throughout the building and are well past their life expectancy. The power distribution system is not easily renovated and would need to be entirely replaced.



Poor energy efficiency – Neither of the two buildings meet current energy codes as there is no insulation in the unreinforced brick walls and very little in the exterior wall construction of the Divine School. Existing glazed openings are single-pane windows and not energy efficient.

Inadequate mechanical systems – Ventilation and HVAC units are past their useful life and the air distribution system does not meet acoustic requirements for deaf or hard of hearing education.

Features

The facilities where students who are deaf and hard of hearing are educated should include:

- Specialized materials, equipment, and services that provide communication access to the core curriculum.
- Clean, well-lit, and acoustically appropriate classrooms that meet ANSI standards for background noise and reverberation, which is distracting to all learners and detrimental for students with hearing loss. Criterion for maximum ambient noise levels of typical unoccupied classrooms is 35 dBA and; reverberation times .6 seconds or less; many students with special listening needs require reverberation times be reduced up to .4 seconds (Acoustical Society of America ANSI S12.60-2009-10) Any construction should include compliance with ANSI standards.

When hearing aids/implanted devices and hearing assistance technologies are used by children/youth who are deaf and hard of hearing or when a child/youth with a cochlear implant is in a classroom, special consideration must be given to the control and reduction of ambient noise (background noise that competes with the main speech signal) and reverberation (the prolongation of a sound after the sound source has ceased). Reverberation is caused when sounds reflect off nonabsorptive surfaces, such as walls, ceilings, and doors. Excessive reverberation causes a speaker's words to become distorted and difficult for the student to understand.

Because of the importance of sensory clues, color in a classroom that provides contrasting background facilitates speechreading and reception of sign language.

- Visual emergency warning signals in all spaces. Children/youth who are deaf and hard of hearing often are unable to hear fire alarms. Bathrooms, hallways, offices, and play areas should be equipped with visual emergency warning devices, such as strobe lights or other electrical flashing devices, as an accommodation.
- Sufficient space in the classroom to accommodate individual, small-group, or whole-class instruction as well as the use and storage of necessary special equipment and teaching materials.
- Space for itinerant teachers of the deaf and hard of hearing, speech language pathologists, and other support personnel that is clean, well-lit, acoustically appropriate, and of adequate size for instruction and for storage of instructional materials.
- Private space where parent conferences and IFSP/IEP/504 Plan meetings can be held.
- Antistatic precautions. Reduction of electrostatic discharge should be attempted in any setting where children with cochlear implants are educated. Precautions include antistatic guards, glare guards, or both for computer monitors as well as antistatic computer mats. Plastic playground equipment, plastic furniture, and nylon carpet should be avoided because of the added likelihood of damage to the speech processor from electrostatic discharge.



- Lighting. Children/youth who are deaf and hard of hearing must use their eyes extensively in the educational setting. Non-glare lighting is essential, and large windows must have adjustable window coverings to reduce glare when necessary.
- Technology and teaching equipment. Teachers need immediate access to multimedia equipment in
 their instructional activities for children/youth who are deaf and hard of hearing children/youth.
 Because teachers usually face students to communicate, efficient and accessible audiovisual
 equipment, along with other equipment, is necessary. Specialized equipment, films/DVDs, and
 materials should be located in the classroom, so they can be obtained quickly.
- Audiological equipment and services. School-based audiology assessment for students who are deaf
 or hard of hearing students should have access to the following equipment for audiology services:
 - Sound booth equipped with specialized lighting and reinforcement equipment for testing young and difficult-to-test children
 - Audiologic assessment equipment (electroacoustic immittance meter, diagnostic audiometer, electroacoustic hearing aid/FM analyzer with real ear measurement capability)
 - Otoscope
 - Sound level meter or application

3. Facility Goals

To meet their mission and provide effective and engaging learning environments for their students, CDHY must have facilities that are designed and maintained to enhance the provision of instruction and services to meet the unique communication, education, and safety needs of children/youth who are deaf and hard of hearing.

4. Program Impacts

The proposed Academic and Physical Education Project will:

- Remove dangerous and vacant buildings at the heart of campus.
- Replace existing inadequate classroom and support space with technologically supportive spaces designed specifically to support bilingual education of deaf and hard of hearing students.
- Allow consolidation of all grades in a single facility that is directly connected to the Kastel Building and at the heart of the CDHY campus. This will, in turn, provide opportunities for the cost-effective sharing of equipment and teaching/support resources between grades and for the development of innovative new programs to meet the needs of deaf and hard of hearing students. Consolidation will also facilitate per-to-peer learning and student mentors.

5. FTE Projections

WSD students come from all areas of the state to attend school. Students that live outside the Vancouver area are eligible to attend the school's residential program. WSD accepts applications throughout the year and admission to the school is based on approval from the administration.

Since 2007, the enrollment at WSD has varied between 115-FTE to a low of 92-FTE in 2016. It has been increasing in the past two years and it is projected to remain between 110–120 FTE. The proportion of these students in specific grades is estimated as follows:

Preschool: 6-7% Elementary: 35-36% High School: 55-58%



E. MISSION SUPPORT

1. Mission

The Washington State Center for Deaf and Hard of Hearing Youth (CDHY) is a statewide resource committed to ensuring all deaf and hard of hearing students in Washington reach their full potential regardless of where they live or attend school. To accomplish its mission, the CDHY focus on three operational components which have the following mission goals:

<u>Washington School for the Deaf:</u> WSD Students are Bilingual, Empowered, Successful for Today and Tomorrow—the BEST.

<u>Outreach Services:</u> Every child, everywhere, everyday receives appropriate instruction that meets their educational, cultural, social, emotional and communication needs.

<u>Professional Development:</u> The knowledge base and learning environment at WSD is a model for the CDHY network of trainers and specialists working throughout the state. This work is done in conjunction with public and private partners.

The overarching theme is providing support for all children residing in the state of Washington to receive the highest level of educational services regardless of where they live and where they choose to attend school – whether at the local district or at WSD. Additionally, support is provided to local districts, children and families regardless of the communication modality the family has selected.

The proposed project supports the agencies mission and strategic plan in several ways:

Goal: WSD is the source from which the outreach network of trainers and specialists derive training and instructional guidelines.

Project Response: With the proposed new project, students, interpreters and teachers will be able to access professional development and direct instruction through virtual or on-site opportunities. The project will support this goal by providing facilities and infrastructure to allow for virtual instruction and training.

Goal: WSD's infrastructure will be able to support all operational technology needs as well as educational technology needs.

Project Response: The proposed new project will provide open, accessible infrastructure providing pathways and access points to the wide variety of technical tools needed for effective ASL/visual instruction.

Goal: Academic staff have the tools, training and support necessary to utilize educational technology effectively within their instruction.

Project Response: The proposed project will provide facilities with access to training in the use of technology to support ASL development in the classroom.

Goal: Establish multi-platform facilities for meetings, webinars, consultations and direct instruction for students and parents.

Project Response: The proposed project will provide facilities with access to training in the use of



technology to support ASL development in the classroom

F. PROJECT NEED

The proposed Academic & Physical Education Building at WSD is needed to insure support deaf children's linguistic, cognitive, social and emotional development in Washington State. This project reflects the CDHY's commitment to support students' development of ASL receptive and expressive skills as well as reading and writing in English and, when appropriate for the child, spoken English. Providing bilingual skills is at the core of the mission of the WSD and is best expressed by Shauna Bilyeu, current WSD Superintendent: https://www.youtube.com/watch?v=L3mMslK3hMM#action=share

- Without this project, the WSD will struggle to provide the strong bilingual foundation that is the key to overall successful educational experience for deaf and hearing challenged students.
- Without this project, WSD students will continue to learn in an environment that is less than effective
 in providing the flexible, adaptive space and access to technology proven to successfully support
 student learning outcomes.
- Without this project, WSD students will continue to lack access to the equivalent facilities provided for hearing students of similar age and grade.

G. PROJECT HISTORY

1. History

Historically, the Department of Social and Health Services and predecessor agencies provided oversight of WSD and WSB. Increasing emphasis on their educational role (rather than viewing them as "institutions") led to the establishment of the schools as separate state agencies in 1985, each with an advisory board of trustees. The schools remain independent state agencies under oversight of the governor's office. In 2002, the Legislature authorized the WSD board to direct school policies and procedures.

The CDHY campus has been attempting to update teaching facilities for over 20 years. The development proposals have undergone scrutiny and varying levels of support as they move through the review and approval processes. In 2000, CDHY undertook several planning initiatives that involved WSD staff, a consulting architect, and an education consultant. They produced a predesign report that requested a 98,000-gsf academic and physical education building for the school.

The 2002 capital facilities study conducted by JLARC concurred with WSD's desire to redesign its campus, finding that many buildings were "older and in various stages of disrepair" and basic infrastructure upgrades were needed. The study noted that predesign plans for a new facility included capacity for up to 300 students, more than twice the school's enrollment. JLARC recommended that WSD acknowledge the decline in student enrollment in its capital plans in their subsequent capital requests.

2. Current Request

In 2004, the school set the goal to continue to explore the content, structure, and delivery model of deaf education to students and to the adult population of Washington State using the previous predesign document as the starting point. That exploration resulted in the evolved program and design in this request which totals 60,000 GSF. Even with a larger gymnasium than initially envisioned, this is a total

Center for Deaf and Hard of Hearing Youth WSD Academic and Physical Education Building

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reduction in proposed area over past requests of 39%. The staff and administration accomplished this reduction by focusing on creating a flexible, responsive facility.

This request also includes an initial project phase to remove the vacant and hazardous buildings in the center of the campus and to reroute utilities to allow for continued service to the remaining campus buildings.

SECTION 3 - ANALYSIS OF ALTERNATIVES

A. ALTERNATIVES CONSIDERED

1. Do Nothing

CDHY has been suffering from the do-nothing alternative for past 20 years. Some progress has been achieved in the construction of Kastel building and other minor campus advancements, however the 2001 Master Plan identified the replacement of classrooms as a key to the success of the deaf student learning environment. No action will continue the status quo of students and teachers getting by with sub-standard facilities.

Advantages

- The option to do nothing does have the lowest first cost.
- Adjacency to other WSD functions will be maintained.

<u>Disadvantages</u>

- Doing nothing will inhibit the WSD's ability to provide effective learning environments to their high school students and PE facilities to the entire K-12 student body.
- Existing inadequate, inefficient, and unsafe conditions would continue.
- Leaving unoccupied and abandoned building on campus presents a safety risk to student, staff, and the public.
- Possible impact on accreditation.
- The haphazard feel of older and empty building will continue to hamper student recruitment.

2. Lease Equivalent Space Off-Campus

In this option, the CDHY would lease off-campus facilities that could provide the needed space. As WSD is a residential campus, this option will require providing transportation between sites. This option will also provide for the demolition of the vacant buildings at the campus core.

<u>Advantages</u>

- The need for capital would be spread over 30-years.
- Least first cost except for the do-nothing option.

Disadvantages

- There is no suitable equivalent space in proximity to the WSD campus requiring a develop and lease option at higher initial costs.
- Finding suitable sized land in proximity to the campus will require a considerable amount of time expanding the overall project schedule.
- Configuring the specific program spaces in a leased facility space would be less efficient than purpose-built requiring a larger gross area than equivalent program in new construction.

- The need to provide transportation between separate sites would increase operational costs and decrease effective learning time for the students.
- Remote location will require duplication of some student services, increasing operating costs.
- Removing Divine High School from the campus would weaken social and aspirational connection to the K-8 students remaining on campus.
- The lack of on-campus physical education and will continue to hamper student recruitment.
- Highest life-cycle cost of all alternatives.
- Long duration.

3. Renovate and Expand on the Existing Campus

In this option, the CDHY would develop a multiple phase project where the existing Hunter Gym and Divine High School are renovated and expanded. It will require a minimum of four construction phases to fully execute. As in option 4, the initial phase will be demolition and site utilities at the four vacant core buildings. The second phase will be a 30,000-sf new addition to Divine School. After this addition is completed, the third phase will be renovation of the existing Divine School and Hunter Gym. The final phase will be reconstruction of the parking lot and construction of the sports field.

Advantages

Adjacency to other WSD functions will be maintained.

Disadvantages

- The existing high school and gym operations would need to continue during construction as there is no "flex" space on campus to relocate these functions. Construction in very close proximity will have severe negative impact to the learning environment and effectiveness.
- The seismic issues in the Hunter Gym will increase typical remodel costs due to unreinforced masonry, its high volume and long clear-span structure.
- This option will require approximately 10% larger area due to inefficiencies of the existing structures.
- Four-phased construction will stretch the project over multiple biennium leading to greater cost escalation.
- There will be no gym during the renovation and expansion of Hunter Gym.
- The lack of a clear campus front door will persist.

4. Construct new Academic and Physical Education Building on the Existing Campus

In this option, the CDHY would develop a two-phase project where the existing Hunter Gym and Divine High School remain in operation while the older abandoned campus buildings are removed, and a new classroom and gym building is constructed. Occupying the new building, the existing Hunter Gym and Divine High School buildings will be removed, and their portion of the campus developed into a sports/PE field.



Advantages

- Provides new space with purpose-designed spaces supporting ASL/Bilingual education with the flexibility and technology infrastructure needed to support visual-intensive deaf education pedagogy.
- The new gym will have adequate size for a regulation high school court. It will also allow for consolidation of fitness functions that are currently located in unsuitable buildings.
- The new building will have significantly lower operating and energy costs than renovated buildings.
- This option leaves adequate site open to enable construction of suitable outdoor recreations and sports facilities.
- Better adjacency and functional proximity to the rest of the WSD campus by bringing functions into the center of campus.
- Removes hazards of vacant and unsafe building at the heart of campus.
- Enables improvement to below-grade utility infrastructure at the core of campus which was constructed in a disjointed manner over decades as individual projects were developed.
- Shortest duration of all alternatives except do-nothing.
- Lowest overall cost of all alternatives except do-nothing.
- Keeps vehicular circulation to the perimeter of campus.

Disadvantages

• Tight schedule with minimal overlap has potential for schedule slippage.

B. PREFERRED ALTERNATIVE

Alternative 4 is the preferred solution alternative. The proposed solution is to implement a phased project that begins with the demolition of the four existing core buildings that have been vacated. This phase will also reroute utilities to open the core site for the new building. The second phase would be the construction of a new 60,000-gsf Classroom/Gym building while the existing Divine High and Hunter Gym remain in service. After completion of the new building, the vacated Divine High and Hunter Gym will be demolished, and a new sports field and parking area constructed. The following chart indicates the preferred alternative is the highest scoring when scored to desired criteria.



Alternative	Adequacy of space supporting deafeducation programs	Quality of learning environment	Flexibility forfuture program chan	Flexibility for future growth	Proximity to other WSD Activities (Primary School, residences, food	Addresses hazards of vacant/unsafe buil dings at	Ease of Student Access	Maintenance/operations cost	Sustainability	First Cost	life-Cycle Cost	TOTAL
Do nothing	1	1	1	1	5	1	3	1	1	5	4	24
Lease equivalent off-campus space	2	3	2	1	1	3	2	4	3	2	1	24
Renovate and expand current buildings		3	4	4	3	4	3	4	3	3	3	37
Construct a new Classroom/Gym		_		_	_	_	_					
Building	5	5	4	5	5	5	5	5	4	4	4	51
	Scorin	gis	1-5 เ	vith	5 = hic	hest va	lue					

C. COST ESTIMATES FOR EACH ALTERNATIVE

The following table provides a summary comparison of the studied alternatives:

Alternative/Description		Initial Cost		30-yr Total Cost		
1	Do nothing	\$ -	\$	-		
2	Lease equivalent space	\$ 26,798,151	\$	117,523,951		
3	Renovation and expansion	\$ 60,624,000	\$	115,522,201		
4	New building	\$ 55,934,000	\$	101,030,238		

1. Do Nothing

The direct capital cost to do nothing is \$0, however the lost opportunity costs from the impact of unrealized FTE increases and the impact on the workforce and local manufacturing economy would be considerable.

2. Lease Equivalent Space

The estimated cost to lease equivalent space in the initial year of a 30-year lease is \$26,798,151, which includes the lease and the Phase-I demolition and utilities cost to remove the vacant and hazardous buildings at the core of campus. In addition to direct costs, this option will have significant impact on operating costs due to duplication of services and staffing, transportation of students, and other costs to operate in multiple locations.

3. Renovate and Expand Existing

The estimated cost to remove the vacant and hazardous buildings at the core of campus and renovate and expand the building totals \$60,624,000 as detailed on the C-100's provided in Attachment 6.1.

4. New Building

The estimated cost to remove the vacant and hazardous buildings at the core of campus and construct a new Academic and Physical Education building connected to Kastel Hall totals \$ 55,934,000 as detailed on the C-100's provided in Attachment 6.1. The suggested model for this alternative is provided in Attachment 6.3.



D. SCHEDULE ESTIMATES FOR EACH ALTERNATIVE

1. Do Nothing

There is no identified time/schedule for this option.

2. Lease Space Off Campus

This option assumes that the proposed demolition of the four vacant and hazardous building at the core of campus would proceed once funding in the 2020 supplemental budget is secured. Given the current market for existing space in Vancouver that would be suitable for a K-12 specialty school, it is estimated that identifying a suitable property would require 12-24 months. Following successful negotiation of terms, it is anticipated that design/build the final TI/Site improvements would require an additional 20-months assuming the start of the lease process cannot begin before July 2021.

Phase-I Demolition and Utilities: July 2020 – June 2021
 Search and Lease: July 2021 – June 2023
 Design/Tenant Improvements: July 2023 – May 2025
 Completion and Occupancy: June 2024 – September 2024

3. Renovate

This option assumes that the proposed demolition of the four vacant and hazardous building at the core of campus would proceed once funding in the 2020 supplemental budget is secured.

•	Phase-I Demolition and Utilities:	July 2020 – June 2021
•	Design of entire project:	July 2021 – June 2022
•	Selection of GC/CM:	December 2021
•	Phase-II Construction of Addition:	July 2022 – September 2023
•	Phase-III Construction of Renovation:	July 2023 – May 2024
•	Phase-IV Construction of Site and Parking:	June 2024 – January 2025

4. Preferred Alternative

This option assumes that the proposed demolition of the four vacant and hazardous building at the core of campus would proceed once funding in the 2020 supplemental budget is secured.

•	Phase-I Demolition and Utilities:	July 2020 – June 2021
•	Selection of Design-Builder:	April 2021 – June 2021
•	Phase-II Design of entire project:	July 1, 2021 – July 2022
•	Phase-II Construction of entire project:	July 2022 – September 2024



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SECTION 4 ANALYSIS OF PREFERRED ALTERNATIVE

A. GENERAL DESCRIPTION

1. Nature of the Project

The proposed solution is to implement a two-phased project that results in the development of a consolidated academic and support building serving all grades and students at the Washington State School for the Deaf.

The initial phase will provide for the removal of four vacant, unsafe, and dangerous buildings at the center of the WSD Campus. These buildings have significant structural deficiencies, hazardous materials contamination, and are located where nearly all students must move directly adjacent to them to access operational campus facilities. As these buildings contain utilities which must remain active for other campus buildings to remain in operation, this phase also provides for relocation/rerouting of critical campus utilities.

The second phase of the proposed project provides for the construction of a new 60,000-gsf Academic and Physical Education Building connected to the west side of Kastel Hall. This project will consolidate all grades in a single building that has purpose-designed learning environments to maximize effective bilingual instruction to deaf and hard of hearing students. The location of this new building will enable the existing Divine High and Hunter Gym to remain in service during construction. After completion of the new building, the vacated Divine High and Hunter Gym will be demolished, and a new sport field and replacement parking will be developed as the final step of the second phase.

The building is programmed to total 60,000 Gross Square Feet (gsf) distributed to the following use categories:

FUNCTION	AREA
Pre-School (Ages 3-5)	600
Elementary School (Grades 1-6)	7,725
Secondary School (Grades 7-12)	14,275
Learning Resource Center (All Grades)	4,900
Commons Areas	1,000
Physical Education & Athletics	14,800
Net Assignable SF	43,300
MEP/Walls/Circulation	16,700
TOTAL GROSS BUILDING AREA	60,000



2. Occupancy

The project is planned to support the following occupancy groups and numbers:

Faculty (FT)	44
Faculty (Adjunct)	C
Students (FTE)	120
TOTAL	164

3. Configuration

One of the current issues with the WSD campus it that there is no clearly identified main entrance. Public and prospective students don't know where to enter the campus and once they do enter, wayfinding is unclear and made difficult by the vacant buildings gathered at the core. The proposed project seeks to use the new building to effectively "zone" the campus around a central quad that supports student recreation with the Clarke Building housing administration and preforming arts, the Kastel Building providing a multi-purpose and support zone, and the new building forming the academic and cultural core of the campus. The project will include a new main campus entrance and consolidated parking area with the new building as the main face of the campus along the south facing the new entrance/parking.

The proposed Campus Plan forms learning environments clustered around the new library. This plan creates a flexible setting that can readily respond to differing educational needs and a mix of grade levels over time and which allows for future expansion. Careful consideration of internal operations has resulted in efficiencies that reduce the program area and reduce time and staff required to monitor student movement. The campus has been organized to support the efforts of teachers and staff as they strive to deliver the highest quality student learning experience possible.

As the proposed new building will be the new center of campus and will physically connect to the Kastel Building, it will become the new "front door" to the WSD. Featuring an open, welcoming lobby, it will provide a clear sense of place to the WSD community and the public. This configuration also provides increased physical security on the campus using the lobby and administration spaces as a "gate" where visual connection to campus visitors is maximized.

By placing all the school functions in a single building, internal security and efficiency are greatly improved. Physical security is a critical element in the consideration for the arrangement of spaces so that public areas inside and outside the buildings are always in the view of teachers and staff. Having the superintendent's office on the ground floor at the main entry controls public access to the campus and is adjacent to the secondary school supervising principal on the second floor directly above. This arrangement makes both offices readily available to the students, staff and public.

The proposed building will locate administrative and academic spaces in a 2-story "L" configuration wrapping along the west and south sides of the new gymnasium. The building will connect to the west face of the Kastel Building, allowing its large multi-purpose space to open to and support the gymnasium when it is used for large assembly functions. The new Learning Resource Center will also connect to the Kastel Building keeping in proximity to the general support functions located there. This placement allows it to be central to the classroom organization and is part of the Cultural Core that includes the Gymnasium, Multi-Purpose, and Auditorium.



Classrooms will be along the south face of the new building facing the center quad. The lower grades will be placed on the ground floor where they can have direct access to the exterior. Upper grades will be located on the upper floors. Staff support spaces are provided on both levels in the classroom wings to promote effective communication and efficiency of staff size.

4. Space Needs

The following tables show a summary of the functional area required for the WSD Academic & Physical Education Building based upon information provided by staff and analysis of peer institutions:

Area Summary

Preschool (Ages 3-5)					8 Students Maximum
Space Name	Capacity	Quantity	Area	Subtotal	Notes
Instructional Space	8	1	600	600	60-sf/child
			subtotal	600	

ELEMENTARY SCHOOL (grades 1-6)				43 Students Maximum
Space Name	Capacity	Quantity	Area	Subtotal	Notes
Classroom	9	5	600	3,000	55-sf/child
Life Skills Classroom	9	1	1,000	1,000	
Lobby/Reception	-	1	500	500	
Principal	1-3	1	150	150	Meeting area for 2-3
Curriculum & Assessment	1-3	1	150	150	Meeting area for 2-3
Bilingual Director	1-3	1	150	780	Meeting area for 2-3
Interpreters	4	1	250	250	4 Workstations
Paraprofessionals	4	1	250	250	4 Workstations
Counselors	1-3	1	150	150	Meeting area for 2-3
ASL Office	1	1	100	100	
SLP Offices	1-3	1	150	150	
Physical Therapy	1-6	1	500	500	
Testing	1	1	100	100	
Administrative Workroom	1-4	1	200	200	
Files	-	1	100	100	Secured
Parent/Staff Conference	2-4	2	250	500	
Teacher/Staff Support	2-4	1	250	250	
Teacher/Staff Shower/Lockers	-	2	100	200	Adj. to Support Space
			subtotal	7,725	

SECONDARY SCHOOL (Grades 7-12)		69 Students Maximum			
Space Name	Capacity	Quantity	Area	Subtotal	Notes
Classrooms	12	6	800	4,800	55-sf/student
ASL Classroom	12	1	800	800	
Media Instruction Classroom	8	1	500	500	
Heavy Duty Shop	-	1	2350	2,350	
Science Lab	12	1	1,200	1,200	
Science Lab Support	-	1	200	200	Adj. to lab

Art Lab	12	1	1,000	1,000	
Art Lab Support	-	1	200	200	Adj. to lab
Life Skills Lab	12	1	1,000	1,000	
Multipurpose /Collaboration Lab	24	1	1,500	1,500	
Testing	1	1	125	125	
Student Store	-	1	500	500	
SECONDARY SCHOOL (Grades 7-12)		_			
Space Name	Capacity	Quantity	Area	Subtotal	Notes
Lobby/Reception	-	1	200	200	
Supervising Principal	1-3	1	150	150	Meeting area for 2-3
Registrar	1	1	100	100	
Interpreters	4	1	250	250	4 Workstations
Paraprofessionals	4	1	250	250	4 Workstations
Psychologist	1	1	100	100	
Social Worker	1	1	100	100	
Counselor	1	1	100	100	
SLP Offices	1	1	100	100	
Administrative Workroom	1-4	1	250	250	
Files	-	1	150	150	Secured
Parent/Staff Conference	2-4		250	250	
Teacher/Staff Support	2-4	1	250	250	
Teacher/Staff Shower/Lockers		2	100	200	
			subtotal	14,275	

LEARNING COMMONS						
Space Name	Capacity	Quantity	Area	Subtotal	Notes	
Library/Media	35	1	4,000	4,000	All-grades divided for Elementary/Secondary	
Materials Workroom	4	1	300	300	Elementary/secondary	
Librarian	1	1	100	100		
Curriculum Development	4	1	500	500		
Collaboration/Student Council	25	1	1,000	1,000		
subtotal						

PHYSICAL EDUCATION/ATHELTICS					
Gymnasium	150	1	7,500	7,500	Full-size HS basketball
Spectators	400	1	2,400	2,400	Up to 500
Lockers/Showers	35 (each)	2	900	1,800	
Apparatus Room	6	1	500	500	
Dance/Movement	10	1	500	500	
Weight/Strengthening	10	1	1,000	1,000	
Equipment Storage	-	1	1,000	1,000	
Instruction Office	1	1	100	100	
	14,800				



	SUBTOTAL	43,300
Circulation		8,000
Walls & Structure		4,100
MEP Services		4,600
TOTAL BUI	LDING (GSF)	60,000

Guidelines used for space assignments includes faculty input, peer institution, DES Space Allocation Standards, OSPI School Facilities Manual, and guidelines use by the accreditation agencies.

B. SITE ANALYSIS

1. Current Studies

No site or facility studies are currently underway.

2. Site Data

a. Location

The Washington School for the Deaf occupies 17-acres located at 611 Grand Blvd, Vancouver, WA 98661.

b. Site Selection

The Washington School for the Deaf has occupied this site since 1888. There are no other sites contemplated for this recommended project.

c. **Building Footprint**

The proposed building footprint totals approximately 40,000-sf most of which is the new gymnasium as this space is required to be on the ground floor. The new building will be physically connected to the adjacent Kastel Building along its west elevation. This expansion was originally planned for in the design and construction of the Kastel Building.

d. Stormwater

WSD has adopted a stormwater management policy and strategies that mitigate the stormwater runoff of new construction, major renovation, and other projects that increase paved surface area on campus or otherwise significantly change the campus grounds. The policy addresses both the quantity and quality of stormwater runoff. Stormwater management is currently provided by on-site collection, transference and discharged to the city's storm drain system.

All facilities are to be designed in accordance with the City of Vancouver and Washington Department of Ecology standards. Extension of the existing stormwater collection system is anticipated for the new building at the campus core. Planted raingardens are anticipated to filter runoff from new development prior to it being discharged into the city collection main.

The campus soils may be suitable for stormwater infiltration. The stormwater system for the proposed sports field is expected to provide below-grade retention and infiltration. The design of the new parking area will include possible use of bio-retention facilities to provide stormwater treatment for pollution-generating (paved) parking areas. Runoff will sheet flow into planted bioretention areas.



e. Ownership or Acquisition

The site is owned by the State of Washington. No acquisition will be required for the proposed project.

f. Easements

No easements will be required for the proposed project.

g. Potential Neighborhood Issue

The recommended project replaces several existing buildings that are in poor condition. Its internal campus location is not expected to generate any concerns from the neighborhood.

h. Utilities

1. Water

Water service is provided by City of Vancouver Public Utilities.

The main incoming water service is an 8" line that enters the campus from East Evergreen Boulevard near the north parking lot entrance. Water capacity is adequate for the proposed project. The existing underground service extends south through the middle of campus between the old Boiler/Laundry/Kitchen/Cafeteria and Kastel buildings, then southeast to the west side of Northrup Elementary School, west along the north edge of the three housing cottages and exits campus at the alternate utility service location on North Grand Boulevard.

This line will need to be relocated in order to clear the center of campus for the new building and to provide continued water services to the existing campus buildings that remain. In Phase-I, it is proposed that the incoming 8" line be intercepted north of the new building location and routed to the east and west around the planned new building, connecting to Clarke Hall to the west and to the lines feeding the cottages to the south. A new line will also be provided from the south point of contact along the east side of the Kastel building to the existing Kastel feed. The east line will ensure that the domestic water on campus has a dual pathway for redundant service.

This new routing will also provide feed to new fire protection/sprinklers in the new building.

2. Power

Primary power is provided by Clark Public Utilities.

Electric service to the campus is provided by two campus 12.47kV services into the site and one utility-pad-mounted transformer for the Kastel building. The medium voltage system is owned and maintained by the Washington State School for the Deaf. There is one medium voltage feeder coming from East Evergreen Boulevard to a pad-mounted 12.47 kV switch at the north side of the site. From the west side of the site, the service originates from North Grand Boulevard. The north feeder serves the Epperson Middle School/Vocation Training building and the Divine High School/Hunter Gym building. The west feeder serves Clarke Hall, the three cottages, the Maintenance/Warehouse building, the Laundry/Kitchen/Cafeteria building and the Boiler building. The utility-pad-mounted transformer on the east side of the site serves the Kastel building and Northrup Elementary School.



3. Natural Gas

Natural Gas service for the site is provided by Northwest Natural Gas.

Natural gas service enters the campus from three points. One service supplies the Kastel building and Northrup Elementary School. The second service runs between cottages B and C east and then north across the landscaped fields toward the east edge of the Laundry/Kitchen/Cafeteria building. It is reportedly capped near the Boiler building. There is a tee near the southeast end of the Laundry/Kitchen/Cafeteria building where piping continues to the west to serve Clarke Hall. The third service enters the campus from East Evergreen Boulevard and is routed between the Epperson Middle School/Vocational Training and Divine High School buildings to serve Divine High School. Care will need to be taken to not damage or reroute the section of piping passing between the Epperson Middle School/Vocational Training and Divine High School buildings as this leg may be in the demolition zone during Phase-I.

4. Sewer

Sanitary sewer service to the site is provided by City of Vancouver. The on-campus side sewers connect to the City mains at the south/lower portion of the site. There are 6-inch lines routed along the east side of Clarke Hall and the west side of Kastel that collect sewerage from Divine, Hunter, Clarke, and the four buildings identified for demolition in Phase-I. All sewer lines serving the four buildings removed in Phase-I will be capped at the south manholes and removed to the north with the demolition of the buildings. The line serving Divine and Hunter will be maintained until completion of Phase-II. Sewer for the new building will be provided by extension of an 8" side sewer from the manhole located in the quad southwest of Kastel.

i. Environmental

1. Green Space

The proposed project will the reduce the total building footprint on the site by approximately 41,800-sf (demolish 86,500-sf/construct 44,700-sf). Some of this increased open area will be used to increase parking (13,000-sf) but the remainder will be added to existing open green space to create an athletic sports field.

Removing the older vacant buildings at the campus core will also increase the greenspace north of the cottages, expanding the canter campus quad.

2. <u>Potential Mitigation/Contamination</u>

The WSD has prepared an AHERA Survey of the existing buildings proposed to be removed in Phase-I. This study noted asbestos-containing and lead-containing material in the existing buildings and in some of the existing underground utilities. Additionally, they also found other hazardous materials including PCB issues with older electrical ballasts. The proposed Phase-I of the project will provide for the abatement of these hazards prior to commencement of demolition. This abatement would also be scheduled over the summer to minimize potential exposure to students.

While the School has not identified controlled or hazardous materials in the soils within the project site, the campus site has been continuously occupied by a series of buildings since 1888 and there have been occurrences of localized contaminated soils on previous projects. The



project will require the successful contractor to exercise due diligence during site operations to identify and address any suspect contamination in the soils.

3. Wetlands

There are no wetlands on the project site.

4. Shoreline

The project is not located on or near any regulated shorelines.

5. SEPA/NEPA Requirements

The project will require SEPA review and the City of Vancouver will be the determining authority. It is expected to receive a Determination of Non-Significance (DNS) with mitigation after the SEPA review process. The mitigation conditions are assumed to include requiring all site development to comply with the Washington Department of Ecology Stormwater Management Manual for Western Washington as adopted by the City of Vancouver.

j. Parking, Access, Roads

The existing paved parking area east of the Epperson Building provides a total of 85 standard and four accessible parking spaces. During Phase-I, 25 of these spaces will be impacted for rerouting of below-grade utilities and another 40 spaces will be used for contractor staging and routing of trucks removing debris. As this area is currently used for pick-up and drop-off of non-resident students (buses and cars) the contractor will be required to coordinate with the school to maintain adequate area for this function as well as safe student transit from the pick-up/drop-off and the campus during both project phases.

Following the completion of the primary building in Phase-II, Divine and Hunter will be demolished, and a new primary parking lot constructed with a new vehicular entrance from North Grand Boulevard. Additionally, the existing campus vehicle entrance from East Evergreen Boulevard will be relocated west to engage the new parking lot.

At the completion of Phase-II, the new parking area will provide a total of 112 standard and eight accessible parking spaces.

k. Impact During Construction

By executing the proposed project in two phases, the impact to the campus during execution will be minimized. The work in Phase-I is planned to decouple utilities and services from the four vacant and hazardous buildings at the core. As noted above, the biggest impact of Phase-I will be the inability to use all the existing parking lot west of Epperson. It is also proposed to do the major portion of the actual demolition during summer months when the student population is negligible.

Following completion of the primary building in Phase-II, parking and bus access will be further impacted. It is anticipated that drop-off and pick-up may be relocated to the parking lot along the east campus boundary or to the parking lot south of Clarke Hall. Once the new building is occupied a temporary parking area will be located where the sports field will be installed.

C. CONSISTENCY WITH LONG-RANGE PLANS

The proposed development is the culmination of the long-range campus plan for the WSD. It has been a part of the campus develop plans since 2001.



D. CONSISTENCY WITH OTHER LAWS AND REGULATIONS

Design and construction shall also adhere to the latest applicable codes, unless stated otherwise. The general applicable codes include:

- 2018 International Building Code as adopted by the City of Vancouver
- 2018 International Fire Code as adopted by the City of Vancouver
- 2018 International Mechanical Code as adopted by the City of Vancouver
- 2018 Uniform Plumbing Code as adopted by the City of Vancouver
- 2018 National Electrical Code
- 2018 International Fuel Gas Code
- ANSI A17.1 Safety Code for Elevators and Escalators
- ICC/ANSI A117.1-2009 Accessible and Usable Buildings and Facilities
- 2018 Washington State Energy Code (WSEC)
- Washington State Ventilation and Indoor Air Quality Code
- City of Vancouver Public Works, Land Use and Development Codes and Standards
- Clark County Public Works Stormwater Regulations

1. High-Performance Public Buildings

The CDHY is committed to creating high performance facilities that will ensure the optimal health and productivity of occupants and buildings users. The CDHY will register the project with the U.S. Green Building Council under version LEED Version 4.1. It is anticipated that the project will achieve certification to LEED Silver by the United States Green Building Council (USGBC) in accordance with Chapter 39.35d RCW "High Performance Public Buildings". The design will be a building that cost effectively conserves energy and water.

2. <u>Greenhouse Gas Emissions Reduction</u>

WSP has an ambitious Greenhouse Gas (GHG) reduction goal of realizing a 15% reduction in GHG emissions below 2005 levels by 2020. To assist this goal, the new Classroom/Gym Building will be designed to meet at least seven of the Best Practices to reduce greenhouse gas emissions, including:

- Above-code HVAC system efficiency
- Utilize natural gas instead of electricity for heating
- Post occupancy commissioning
- Time-of-day and occupancy-programmed lighting
- Energy-efficient lighting
- Roofing materials with high solar reflectance and reliability
- Solar power-generation

3. Archeological and Cultural Resources

In their 2008 review of the earlier project submissions, the state Department of Archeology and Historic Preservation (DAHP) determined that the WSD campus was eligible for listing in the National Register of Historic Places as a historic district. Following this determination, DES, WSD, and DAHP agreed to a Memorandum of Understanding (MOU) (see Appendix 6.2) that prior to demolition of the identified buildings, the WSD would:



- Prepare a NRHP Multiple Property Documentation (MPD) Form focusing on the life and architectural work of Donald J. Stewart.
- Prepare a NRHP nomination for the Northrop Elementary School.
- Conduct a Level II Mitigation Documentation of the historic buildings on the WSD campus.

The WSD prepared the requested MPD, Northrop Elementary School NRHP nomination, and Level II Mitigation Documentation and submitted these documents to DAHP.

An updated version of the 2008 documents will be prepared prior to Phase-I and submitted to DAHP as conditioned in the MOU. The final mitigation documentations will be retained by DAHP and the Washington State Archives. Copies will be submitted to the Clark County Museum in Vancouver and the WSD. The Vancouver-Clark County Historic Preservation Commission will be kept apprised of the ongoing efforts.

4. ADA

The design will be required to comply with Chapter 11 of the IBC – Accessibility will meet all the requirements of ICC/ANSI A117.1-2009 Accessible and Usable Buildings and Facilities. To the maximum extent possible the tenets of Universal Design will be applied. The detailed design will be reviewed by the State Facility Accessibility Committee for access.

As the primary users of the building are deaf or hard of hearing detailed design of the project must seek to incorporate DeafSpace Guidelines developed by the DeafSpace Project of Gallaudet University which include more than 150 different architectural elements that should be considered when designing space to be used by Deaf people.

5. Compliance with Regional Planning

In obtaining Land Use Permit from the City of Vancouver, the CDHY will demonstrate GMA Compliance for the project as required under RCW 36.70A.

- 6. Additional Information per RCW 43.88.0301 (1):
 - a. Is the proposed project identified in City of Vancouver comprehensive plan?NO
 - b. Is the proposed project located within an adopted urban growth area?NO
 - c. If located within an Urban Growth Area, does the project facilitate, accommodate, or attract planned population and employment growth?

NO

d. Was there regional coordination during project development?

YES

e. Is the project leveraged with local and or additional funds?

NO

f. Have environmental outcomes and the reduction of adverse environmental impacts been examined? **YES. They will be further developed through the SEPA Process.**

E. DEFERRED ISSUES STUDY

There are no known deferred issues requiring further study.

F. COMPONENTS EXCEEDING CODE

This project will require the following that are identified as exceeding current code-minimums:

1. The Energy Reduction Goal for the project is to provide a system that results in a 20% reduction below (better than) the 2018 Washington State Energy Code (WSEC). The goal will exclude the energy used in the various labs which will be isolated by additional sub-metering.

G. IT SYSTEMS

This project is a teaching facility located on a campus with existing IT systems. It will have a robust IT and telecommunications network internal to the building and interconnected to the campus main distribution. Costs for the proposed systems are identified in the budget documents included herein and will be further reported in detail per RCW 43.88.030 as the project progresses. The proposed project is not classified as a major information technology projects per RCW 43.88.092. None of the proposed IT systems apply to business and administrative applications nor are they enterprise-wide, thus are not subject to RCW 43.105.205.

H. BUILDING COMMISSIONING

Commissioning services will be required per the Washington State Energy Code and as necessary to achieve both fundamental and enhanced commissioning LEED Credits. An Independent Commissioning Authority will be required to direct the enhanced commissioning requirements for LEED version 4.1. The Commissioning Authority will review design documents and make recommendations during the program phase, design phase, construction phase, acceptance phase, and post-acceptance phase. Installation verification will be performed, functional testing, and performance period of measurement and verification. Commissioning documents will be provided during design, process, verification, and operation and maintenance documents.

In conjunction with commissioning, a detailed operational training program for the WSD staff will be included in the project to ensure local personnel have the knowledge to operate and maintain the advanced controls to maintain the target high level of efficiency.

I. IMPACT OF FUTURE PLANNING/PHASING

There are no other plans relating to future phasing or expansion of the proposed building. Within the building, the design will seek to maximize flexibility to accommodate future change without requiring major system or structural redesign.



J. PROJECT DELIVERY METHODOLOGY

1. Alternatives Considered

The WSD evaluated three methods of project delivery for the planned new Academic/Physical Education Building:

Design Bid Build

- Design Bid Build is used to procure most public works in Washington State and all previous projects at the WSB.
- The process encourages price competition.
- Responsibility criteria may be utilized to ensure that a qualified contractor is awarded the project.
- The WSD is experienced with this delivery type.

GCCM (General Contractor/Construction Manager)

- GCCM may be utilized on projects with construction costs of \$10 million or more where early
 involvement of the contractor is a benefit in terms of scheduling, phasing, or coordination,
 construction at an occupied facility; a complex or technical work environment; or specialized work on
 a building that has historic significance.
- GCCM may involve increased costs for design fees related to working with the contractor and preparing multiple bid packages; and for the GCCM risk contingency.

Design-Build

- Design-Build may be utilized on projects with construction costs of \$2 million or more where
 construction activities are highly specialized; there is an opportunity for greater innovation or
 efficiencies between the designer and the builder; or significant savings in project delivery time
 would be realized.
- Design-Build may involve increased costs due to the effort to prepare the RFQ/RFP, stipends for competitors in the RFP phase and the ongoing participation of programming consultants.
- Design-Build may not provide the depth of design/programming interface needed in a building where multiple program needs may be competing for fixed area or assets.
- Design-Build with a guaranteed maximum price (GMP) places much of the decision making on the
 Design-Builder where cost may be the primary consideration and may not provide the anticipated
 level of quality.

2. Recommended Project Delivery

As the scope for the Phase-I demolition is clearly known and of relatively simple complexity, it can be most effectively executed using design-bid-build delivery.

Phase-II requires interconnecting the new work to an existing building that must remain in continuous operation. Delivery using design-build process offers better opportunity for addressing project complexities – site safety and accelerated execution. For these reasons, it is recommended that Phase-II be executed using design-build delivery.

3. Agency Management

It is anticipated that DES will provide direct management of the Phase-I D-B-B and Phase-II D-B



Procurement and subsequent project delivery from inception to the end of the one-year performance guarantee/warranty period. The WSB will be represented in the process by their Facilities Director.

The roles and responsibilities are anticipated to be:

Predesign: WSD Facilities Team:

Assists in consultant selection

Coordinates stakeholder participation Participates in detailed programming

Reviews and approves detailed programming and budget

DES Project Manager:

Directs consultant selection Manages consultant contract

Assists agency in review and approval of programming and budgets

Consultant:

Provides Predesign services per agreement

Pre-Construction: WSD Facilities Team:

Participates in periodic meetings

Provides design decisions including program adjustments to achieve budget

Approves design and estimates at 35%, 60% and 95%

DES Project Manager:

Manages consultant contract

Assists agency in review and approval of programming and budgets

Design-Builder:

Provides design and pre-construction services per agreement

Construction: WSD Facilities Team:

Participates in periodic construction meetings

Provides construction decisions including field adjustments and change

orders

DES Project Manager:

Manages contract

Monitors quality and schedule

Advises agency in all matters related to the construction

Design-Builder:

Provides construction services per agreement

Commissioning: WSD Facilities Team:

Participates in system commissioning

Attends operating instruction



DES Project Manager:

Coordinates selection and contracting of commissioning agent Monitors both commissioning agent and design consultant Advises agency in all matters related to acceptance of systems

Design-Builder:

Provides support to the commissioning agent services per agreement

Warranty: SD Facilities Team:

Identifies warranty issues

Notifies consultant of needed warranty repairs

DES Project Manager:

Assists in obtaining warranty repairs

Design-Builder:

Executes warranty repairs

K. SCHEDULE

1. Milestone Dates

a.	Predesign Completion	01/1/19 - 07/1/19
b.	Phase-I Budget Request	07/1/19 – 12/01/19
c.	Phase-I Consultant Selection	04/1/20 - 07/01/20
d.	Phase-I Design	07/1/20 – 12/01/20
e.	Phase-I Demolition/Site Prep	01/1/21 – 06/01/21
f.	Selection of Design-Builder	04/1/21-07/01/21
g.	Pre-Construction/Design	07/1/21 – 07/01/22
h.	Phase-II Building Construction	07/01/22-03/01/23
i.	Phase-II Substantial Completion	04/01/23
j.	Relocation	07/01/23 - 09/01/23
k.	Phase-II Building Occupancy	09/01/23
l.	Phase-II Site Construction	08/01/23-03/01/24
m.	Phase-II Site Completion	04/01/24

2. VE and Constructability

Phase-I scope is of limited complexity and will not benefit from a separate VE or Constructability review. As Phase-II will be delivered under alternative procurement, the selected Design-Builder will be responsible for both value-engineering and constructability in preparation for their GMP.

3. Potential for Delay

The project has would have significant delay potential if Phase-I scope is not is not funded in the 2020 Supplemental Capital Budget.

4. Permitting or other Ordinances Potential Schedule Impact

PREDESIGN REPORT

The City of Vancouver was contacted during the Predesign Phase and indicated that permitting would be straightforward for this project as its use is permitted outright in the underlying zone. No extraordinary permit or ordinance compliance issues are anticipated.

5. Jurisdictional and Stakeholder Involvement Plan

The Design-Builder will be required to hold programming and design sessions with the user groups through detailed design conferences, and project reviews will be held at the concept, schematic, and design development phases. Regular (every-other week) progress meetings will be held by the Design-Builder and the WSD as the design and construction progresses. The Design-Builder will have the responsibility to establish regular on-site inspections with the Vancouver Building Inspector and all other authorities having jurisdiction over the project.

PREDESIGN REPORT

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SECTION 5 PROJECT BUDGET ANALYSIS

A. Cost Estimate

1. Major Assumptions

Following are the major findings and/or assumptions that form the basis of the estimate for the preferred alternative. See Attachment 6.1 for full elaboration of the basis of cost.

Site/Civil:

- The existing vacant and abandoned buildings at the core of campus will be abated of hazardous materials and demolished as outlined in the Pre-Demolition Study in Attachment 6.6.
- Existing utilities at the campus core will be revised and rerouted as outlined in the Pre-Demolition Study in Attachment 6.6.
- The existing stormwater system is adequate for use.
- Sanitary sewer, domestic and fire protection water are available at the site. New 6-inch sewer service connections will be provided to the existing 8-inch private sewer main south of the proposed building.
- Natural gas will be piped to the building from a connection at the main and distributed to the heating water boilers and the domestic hot water heater.
- Anticipated TESC measures include catch basin protection and perimeter protection with straw wattles or a similar Best Management Practice (BMP).
- Dewatering (SSPTD). The SSPTD permit must be obtained prior to building permit approval.
- Total disturbed area will exceed 1 acre; therefore, the project will be required to apply for coverage under the National Pollution Discharge Elimination System (NPDES) permit through the Department of Ecology.
- Landscape improvements include ground covers, low shrubs and columnar trees along the south, west sides of the building.
- The new soccer field will be natural grass with contour and subsurface appropriate for drainage.
- Parking lot will be 4" asphalt over 4" prepared subgrade. Surface drainage to rain gardens will be provided for stormwater quality and quantity control.

Landscape:

- In general, landscape improvements will include native trees, shrubs, and ground cover at disturbed areas of the site, with focus around the public perimeter of the primary facility. Plantings will be drought tolerant and low maintenance.
- Permanent irrigation systems, if employed, will be low-water-use-type and limited in scope to primary public areas.
- Landscape work will include perimeter plantings at the site boundary (around parking areas) to meet City of Vancouver standards.

Architectural:

As the planned life of the building is 50+ years, proposed building materials and systems have been selected based on durability, ease of maintenance, appropriateness, and initial cost.

- Interior
 - New interior walls, finishes, doors, and systems will be GWB over metal studs at 16 inches on center. Wall finishes will be durable and easy to maintain. Primary finish will be painted.



- An isolated wood gymnasium floor will be provided in the gymnasium.
- Corridors should be short to control running. Extra width in halls, entries, etc. as signing between people walking together requires more space than verbal communication. 8' width is ok, 10' is optimal.
- Visual signal systems are needed throughout the classroom. Include strobe for instructor to get attention of students or overhead light switch near instructor. Avoid conflict with fire alarm strobes. Visual doorbells, and telephone where appropriate.
- Acoustics: Control of vibration and noise in the building is critical to creating effective learning environments for deaf and hard-of-hearing students. The new building will be designed to provide acoustic controls including:
 - Lower reverb time needed, less than 1 second; ambient level less than 20 db.
 - HVAC systems critical for vibration and noise; low velocity air flow desirable.
 - Structure-borne sound a problem; concrete structure is desirable.
 - ASL is a visual language and line of sight, lighting, pattern, and color are all elements which can impact clarity of visual communication. The design will seek to incorporate DeafSpace Guidelines including the following:
 - 45-degree cut-off sight line for student/instructor interaction angle.
 - Provide rectangular classroom shape for maximum flexibility of seating.
 - Open classroom environment is not desirable (moveable walls between classrooms); too many visual and acoustic distractions.
 - Should maintain visual openness for variety and supervision.
 - Carpet should not have straight lines, particularly in corridors as this creates visually confusing background.
 - Minimize columns to facilitate signing; columns can cause visual conflicts.
 - Two-story spaces facilitate signing communication between floors.
 - Privacy is an issue in open spaces since signing can be read from long distances unlike voice.
 - Lighting in the learning environment for deaf and hard of hearing students is critical as you need to see entire face for speech reading.
 - Diffused light desirable
 - Avoid back-lighting from windows
 - Prefer interior classrooms with no outside windows; windows ok if skylight or clerestory (high on wall)
 - Natural light provides good visual break in hallways or atriums
 - North exposure preferred
 - Prefer gray glass to reduce glare and retain color
 - Color in the learning environment for deaf and hard of hearing students can also impact communications. Colors of walls should be neutral in instructional areas; brighter colors OK in non-instruction areas
- A new fire protection service will be provided with approved backflow devices. The building will be protected with a complete wet sprinkler system. Dry pipe systems will be used where sprinklers are subject to freezing (e.g. outdoor canopies).



Exterior

The exterior wall materials for the building will be compatible with the context of the adjacent Kastel Building as the new building will physically connect to it.

- Brick, metal and glass will form the major exterior material palette to relate to the adjacent Kastel Building.
- Windows and storefront with thermally broken aluminum frames with color-anodizedaluminum finish will be used. Glazing will consist of clear or lightly tinted insulating glazing units with hard coat low emissivity (Low-E) coating.
- New roofing at the gym will be standing-seam metal.
- Roofing over the classrooms will be single ply membrane and thicker insulation will be added to comply with current codes.
- Skylights will be diffused, and clearstories provided to allow effective daylighting without glare. Wood soffits may be provided to complement structural framing.
- South-facing windows will have exterior louvers for glare control.

Structural:

- New Foundations: Conventional spread and continuous concrete footings, bearing directly on grade or compacted structural fill. With a bearing capacity of 3000 psf.
- The primary structural system will be steel framing with light-gauge steel infill framing.
- Open-web steel trusses will provide clear-span at the high-volume gymnasium space.
- Seismic Resistance: The new metal deck roof and composite metal/concrete floor will act as diaphragms that will transfer the loads to steel-braced frames or buckling-resistant frames.
- Interior slabs at grade will consist of conventional reinforced concrete slabs. Slabs will be
 reinforced for temperature and shrinkage effects and special point loads where required, and
 control and isolation joints will be placed to control cracking. Slabs will be placed over a vapor
 barrier and capillary water barrier consisting of a clean aggregate. Typical slabs on grade shall be
 4 inches thick.
- The roof decking will be a galvanized steel deck welded to open web steel joists or wide flange steel beam joists. Continuous wide flange girders supported by square or rectangular steel tube columns will support the joists and trusses. The roof will need to support the roof live load or snow load, dead load and any suspended collateral loads. Unbalanced snow and drift and sliding loads shall also need to be considered. The roof will need to be designed as a diaphragm for lateral loads.
- The elevated floors in the main building will consist of concrete reinforced with welded wire mesh cast on composite metal deck. The composite metal deck will be welded to composite wide flange steel floor joists. The floor joists will be supported by continuous steel wide flanged girders supported by the tube columns. The floors will support the dead loads, any collateral loads and the live loads. They shall be designed as diaphragms for lateral forces.
- Lateral forces from wind and earthquake forces will be resisted by a continuous system from the roof down to the foundation. The forces at the floor and roof levels will be resisted by the floor and roof diaphragms, which will span horizontally. These diaphragms will have continuous chords and collectors bounding the diaphragm perimeters and connected to steel-braced



frames. The collectors transfer the loads to the diagonal-braced frames which transfer the lateral forces to the foundation and then to the supporting soils.

Mechanical:

- The proposed building will be served by three air handling systems. The gym will be served from a single-zone variable air volume air handler. The classroom/flex area will be served by a variable air volume air handler with hot water terminal units for zone temperature control. IT rooms and other high heat load areas will be served from stand-alone cooling units.
- The existing Oliver Kastel Building has two sets of heating and chilled water pipes for future, 6-inch-valves, capped and ready to connect to and through to the proposed new building. There has been space allocated within the existing Kastel mechanical spaces for the addition of equipment necessary to serve the new building including, cooling towers, boilers, modular chillers and pumps, all to be provided to meet the needed capacity.
- The building will be fully sprinklered for fire protection.
- To achieve LEED Silver certification, the proposed project will explore the following energysaving systems:
 - More efficient HVAC performance
 - Reduced lighting power
 - Enhanced lighting controls
 - o On-site supply of renewable energy
 - Provisions of a dedicated outdoor air system (DOAS)
 - High-efficiency service water heating
 - Enhanced envelope performance
 - Reduced air infiltration
- Domestic hot and cold water will be provided to the CCDHY building with approved backflow
 devices and piped to the plumbing fixtures as required. These include toilet room fixtures,
 electric water coolers, locker room showers, janitor's closets, and exterior hose bibs. Domestic
 hot water will be generated by a gas-fired storage water heater located in the mechanical room.
 Domestic hot water will be recirculated.

Electrical:

- Normal power service to the new building will be provided from WSD existing electrical infrastructure, sourced from the existing Oliver Kastel Building directly to the east. As part of the Kastel Building, conduit infrastructure was provided from the Main Distribution Panel (MDP) in the Main Elec Room to an underground vault at the building's west exterior. Refer to site plan shown here for approximate vault and conduit infrastructure location. The new building normal power service is anticipated as follows:
 - o 1,000A and 400A, 3-pole circuit breakers to be installed in existing space within Kastel MDP.
 - 1,000A and 400A, 480Y/277V, 3-phase, 4-wire copper feeder conductors installed from existing Kastel MDP to new CDHY Main Elec Room (exact location to be determined), via existing underground conduit and vault. Underground raceway, (8)-4"C, is required to be extended from the existing vault location to the CDHY Main Elec Room location.
 - The two new feeders shall terminate on two separate Main Distribution Panels within the CDHY- one 1,000A and one 400A.



- These two MDPs will distribute power to the entire CDHY building, which will include stepdown 208Y/120V distribution transformers and branch panel equipment.
- Like the normal power service, emergency and optional standby power service will be provided from WSD existing electrical infrastructure, sourced from the existing Oliver Kastel Building. As part of the Kastel project, conduit infrastructure was provided from the Kastel Emergency/Standby Distribution Panel (ESDP) in the Main Electrical Room, to an underground vault at the building's west exterior. Refer to site plan shown here for approximate vault conduit infrastructure location. The new building emergency and standby power service is as follows:
 - 250A, 3-pole circuit breaker to be installed in existing space within Kastel ESDP.
 - 250A, 480Y/277V, 3-phase, 4-wire copper feeder conductors installed from existing Kastel ESDP to new CDHY Main Elec Room (exact location to be determined), via existing underground conduit and vault. Underground raceway, (1)-4"C (power) and (1)-2"C (control), is required to be extended from the existing vault location to the CDHY Main Elec Room location.
 - The new feeder shall terminate at a new CDHY Emergency/Standby Dist. Panel (ESDP) in the CDHY Main Elec Room. This ESDP will be provided with two (2) feeder circuit breakers, plus one (1) spare one (1) 70A to feed Emergency ATS, one (1) 150A to serve Standby ATS, and one (1) 100A spare.
 - The 100A, 480V/4-Pole emergency ATS and downstream 480V branch panel, distribution transformer and secondary 208V branch panel shall be located within a dedicated fire-rated room. The emergency branch will provide backup power to egress lighting, exit signs and fire alarm equipment.
 - The 150A, 480V/4-Pole standby ATS and downstream 480V branch panel, distribution transformer and secondary 208V branch panel shall be located within the CDHY Main Electrical Room. The standby branch will provide backup power to building systems, equipment and program elements requiring backup power as determined by the Owner.
- Photovoltaic (PV) panels will be explored. As a minimum, the infrastructure for a future PV Array
 will be included. Any PV panels will be connected in series to rapid shut off combiner boxes on
 the roof. DC power from the rapid shut off combiner boxes will be routed to DC/AC inverters.
 The supports for the PV array will be designed so that they are separate from the array and will
 allow replacement of panels without impacting the roof membrane.
- Lighting will be LED with daylight zoning and continuous dimming.

Technology/Telecommunications:

- An Analog Addressable Fire Alarm (FA) system will be provided. With this system, each device has a unique address and is polled every few seconds. The devices will include smoke and heat detectors, strobes and combination speaker/strobes, manual pull stations, door holders/closers, tamper and water flow switches, and control relays.
- A Visual Public Address System will be provided throughout the facility.
- CATV distribution system will be provided throughout the facility.
- Extension of the existing campus Wireless Clock System is anticipated to include new repeater/transmitter within the CDHY building, as well as clocks distributed throughout the facility.



- The communications cabling system shall be designed to conform to the requirements of TIA-568, Generic Telecommunication Cabining for Customer Premises Standard. Cabling will be Cat-6a
- A new Main Point of Presence will be established within the new building connected via fiber
 and copper to the campus system. It is anticipated that fiber and copper will be required to the
 Kastel Building MDF. Telecommunications pathways and spaces will be designed and installed
 in accordance with ANSI/TIA/EIA and WSD standards. Cable tray is anticipated throughout the
 building for horizontal cabling distribution. A minimum of two network cables are anticipated to
 each outlet location.
- The credentialed access control system currently in use on campus shall be expanded to cover doors in the building.
- Instructional Media will consist of in-classroom audio-visual systems and equipment. Assisted listening systems will be provided for all classrooms, meeting and assembly spaces.

2. Summary of Costs

Following is the major Uniformat Costs estimated for the both the Phase-I and Phase-II Construction (Preferred Alternative) escalated to the mid-point of construction per the attached C-100 forms:

Uniformat System (level (Design-Bid-Build)		Total					
F. Special Construction 8							
F20 Selectiv	F20 Selective Demolition						
G. Building Sitework							
G10 Site Pre	G10 Site Preparation						
G20 Site Imp	G20 Site Improvements						
G30 Site Civ	G30 Site Civil/Mechanical Utilities						
G40 Site Electrical Utilities			297,608				
Direct Construction Cost	Subtotal	\$	3,055,405				
General Conditions		\$	579,179				
Overhead & Profit		\$	153,648				
Maximum Allowable Co	nstruction Cost (MACC) TOTAL	\$	3,788,232				

D30 HVAC	\$	2,616,728
D40 Fire Protection	\$	327,091
D50 Electrical	\$	3,116,985
F. Special Construction & Demolition	.	3,110,203
F10 Special Construction	\$	891,483
F20 Selective Demolition	\$	-
G. Building Sitework	·····	
G10 Site Preparation	\$	1,422,475
G20 Site Improvements	\$	2,457,525
G30 Site Civil/Mechanical Utilities	\$	636,006
	\$	•••••
G40 Site Electrical Utilities	\$	654,712
G60 Building Demolition		538,734
Offsite Improvements	\$	623,535
Temporary Construction & Phasing	\$	484,446
Direct Construction Cost Subtotal	\$	29,876,402
General Conditions	\$	3,534,427
Design & Engineering	\$	3,917,218
Design-Builder Overhead & Profit	\$	1,804,357
Maximum Allowable Design & Construction Cost (MDACC) TOTAL	\$	39,132,404
Maximum Allowable Design & Construction Cost (MDACC) TOTAL	\$	39,132,404
Maximum Allowable Design & Construction Cost (MDACC) TOTAL	\$	39,132,404
Maximum Allowable Design & Construction Cost (MDACC) TOTAL	\$	39,132,404
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Maximum Allowable Design & Construction Cost (MDACC) TOTAL	\$	39,132,404
Maximum Allowable Design & Construction Cost (MDACC) TOTAL	\$	39,132,404
Maximum Allowable Design & Construction Cost (MDACC) TOTAL	\$	39,132,404



3. C-100

The C-100's for both project phases (Attachment 6.1) identifies the Total Project Costs for the project at \$55,934,000 (escalated to mid-point of construction) broken down as follows:

Phase-I Demolition & Site Preparation (rounded)

TOTAL PHASE-I	\$ 5,423,000
Other Costs	\$ 32,000
Agency Project Administration	\$ 87,000
Construction	\$ 4,518,000
Consultant Services	\$ 786,000

Phase-II Building & Site Development (rounded)

TOTAL PHASE-II	\$ 50,511,000
Other Costs	\$ 136,000
Agency Project Administration	\$ 297,000
Artwork	\$ 196,000
Equipment/FF&E	\$ 2,143,000
Design & Construction	\$ 46,689,000
Consultant Services	\$ 1,050,000

B. PROPOSED FUNDING

Phase-I is anticipated to be funded by the 2020 Supplemental Capital Budget. The balance of the projected Total Project Cost is planned in the 2021-23 Capital Budget.

C. FACILITY OPERATIONS AND MAINTENANCE

1. Operating Budget Impact

Annual cost impacts include custodial, utilities, technology, capital maintenance, general repair and furniture/equipment replacement, walkways, landscaping & grounds maintenance, security and administration costs for the new space added to the campus through the project. As the project is a 60,000-gsf building which replaces 36,000-gsf in Divine Hall and Hunter Gym, the new increase in space on the WSD campus is 24,000-gsf.

The operation and maintenance budget impacts for the added new space is estimated to total \$222,000 annually or \$9.25 per square foot of new area. Project impact on the WSB's annual operating budget is as follows:



O&M Category	FTE's	Annual Cost/Unit	Quantity	/ Unit	Est. Annual O&M Cost
Janitorial	0.5	\$1.77	24,000	/ GSF	\$42,480
Utilities	0	\$1.83	24,000	/ GSF	\$43,920
Technology - Infra. &Tech. Support	0.13	\$2.20	24,000	/GSF	\$52,800
Capital Maint./Repair	0.25	\$2.43	24,000	/ GSF	\$58,320
Roads and Grounds	0	\$0.62	24,000	/ GSF	\$14,880
Security	0	\$0.25	24,000	/ GSF	\$6,000
Administration	0	\$0.15	24,000	/ GSF	\$3,600
	o costs	\$222,000			
TOTAL M & O	0.88			\$9.25	Per GSF

2. 10-year Capital and Operating Costs

The 10-year forecast of Maintenance and Operations costs for the new Academic and Physical Education Building is as follows:

			Biennium									
O & M Category	An	nual Cost		2021-23		2023-25		2025-27		2027-29		2029-31
Janitorial	\$	42,840	\$	91,026	\$	96,706	\$	102,741	\$	109,152	\$	115,963
Utilities	\$	13,920	\$	29,577	\$	31,423	\$	33,384	\$	35,467	\$	37,680
IT/Tech. Support	\$	52,800	\$	112,189	\$	119,190	\$	126,628	\$	134,529	\$	142,924
Repair/Maint/Replace	\$	58,320	\$	123,918	\$	131,651	\$	139,866	\$	148,593	\$	157,866
Roads & Grounds	\$	14,880	\$	31,617	\$	33,590	\$	35,686	\$	37,913	\$	40,278
Security	\$	6,000	\$	12,749	\$	13,544	\$	14,389	\$	15,287	\$	16,241
Administration	\$	3,600	\$	7,649	\$	8,127	\$	8,634	\$	9,172	\$	9,745
TOTAL			\$4	408,727	\$	434,231	\$	461,327	\$	490,114	\$!	520,697

The forecast is based on the annual estimates for the new space noted above escalated at 3.12% per year.

D. FF&E COSTS

1. Equipment

The C-100 budget includes \$810,000 for new and academic and physical education equipment A-V/Instructional Media in classrooms. It also will provide for telecommunications, IT, and computers.

2. Furnishings

The C-100 budget includes \$1,662,000 for classroom, office, and shared study/support space furnishings.

Center for Deaf and Hard of Hearing Youth WSD Academic and Physical Education Building

PREDESIGN REPORT

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APPENDIX
Budget Estimates



State of Washington

AGENCY / INSTITUTION PROJECT COST SUMMARY

Agency 353 - Center for Deaf and Hard of Hearing Youth
Project Name Academic & Physical Education Building - Phase-I: Demolition & Utilities
OFM Project Number 30000036

Contact Information				
Name	Shauna Bilyeu			
Phone Number	(360) 418-0402			
Email	shauna.bilyeu@cdhl.wa.gov			

Statistics						
Gross Square Feet	0	MACC per Square Foot				
Usable Square Feet	0	Escalated MACC per Square Foot				
Space Efficiency		A/E Fee Class	В			
Construction Type	Schools (primary and see	A/E Fee Percentage	12.06%			
Remodel	Yes	Projected Life of Asset (Years)	50			
	Additional Project Details					
Alternative Public Works Project	No	Art Requirement Applies	No			
Inflation Rate	3.12%	Higher Ed Institution	No			
Sales Tax Rate %	8.40%	Location Used for Tax Rate	Vancouver WA			
Contingency Rate	10%					
Base Month	June-18					
Project Administered By	DES					

Schedule					
Predesign Start	December-18	Predesign End	July-19		
Design Start	July-20	Design End	December-20		
Construction Start	January-21	Construction End	June-21		
Construction Duration	5 Months]			

Project Cost Estimate					
Total Project	\$4,993,127	Total Project Escalated	\$5,423,477		
Rounded Escalated Total \$5,423,000					

STATE OF WASHINGTON

AGENCY / INSTITUTION PROJECT COST SUMMARY

Agency 353 - Center for Deaf and Hard of Hearing Youth
Project Name Academic & Physical Education Building - Phase-I: Demolition & Utilities
OFM Project Number 30000036

Cost Estimate Summary

	Acc	quisition	
Acquisition Subtotal	\$0	Acquisition Subtotal Escalated	\$0
_		ant Services	
Predesign Services	\$0		
A/E Basic Design Services	\$318,937		
Extra Services	\$160,000		
Other Services	\$183,290		
Design Services Contingency	\$66,223	_	
Consultant Services Subtotal	\$728,450	Consultant Services Subtotal Escalated	\$785,794
	Con	struction	
	Con	struction	
Construction Contingencies	\$348,430	Construction Contingencies Escalated	\$379,684
Maximum Allowable Construction	\$3,484,298	Maximum Allowable Construction Cost	\$3,788,233
Cost (MACC)	\$3,464,236	(MACC) Escalated	73,766,233
Sales Tax	\$321,949	Sales Tax Escalated	\$350,106
Construction Subtotal	\$4,154,677	Construction Subtotal Escalated	\$4,518,023
	Fai	uipment	
Equipment	\$0		
Sales Tax	\$0		
Non-Taxable Items	\$0		
Equipment Subtotal	\$0	Equipment Subtotal Escalated	\$0
	· L		·
		rtwork	**
Artwork Subtotal	\$0	Artwork Subtotal Escalated	\$0
	Agency Proje	ct Administration	
Agency Project Administration Subtotal	\$0		
DES Additional Services Subtotal	\$80,000		
Other Project Admin Costs	\$80,000		
Project Administration Subtotal	\$80,000	Project Administation Subtotal Escalated	\$87,176
	Oth	er Costs	
Other Costs Subtotal	\$30,000	Other Costs Subtotal Escalated	\$32,484

Project Cost Estimate					
Total Project	\$4,993,127	Total Project Escalated	\$5,423,477		
Rounded Escalated Total \$5,423,000					

	Consul	tant Services		
Item	Base Amount	Escalation Factor	Escalated Cost	Notes
1) Pre-Schematic Design Services				
Programming/Site Analysis				
Environmental Analysis				
Predesign Study				
Other	\$0			
Insert Row Here				
Sub TOTAL	\$0	1.0662	\$0	Escalated to Design Start
2) Construction Documents				
A/E Basic Design Services	\$318,937			69% of A/E Basic Services
Other	Ş310,337			03/0 Of Ay L basic Services
Insert Row Here				
Sub TOTAL	\$318,937	1.0730	\$342,219	Escalated to Mid-Design
	12 3/23		,,,,	
3) Extra Services				
Civil Design (Above Basic Svcs)	\$55,000			
Geotechnical Investigation				
Commissioning				
Site Survey				
Testing	\$25,000			
LEED Services				
Voice/Data Consultant				
Value Engineering				
Constructability Review				
Environmental Mitigation (EIS)	\$50,000			
Landscape Consultant	\$30,000			
Other				
Insert Row Here				
Sub TOTAL	\$160,000	1.0730	\$171,680	Escalated to Mid-Design
4) Other Services				
Bid/Construction/Closeout	\$143,290			31% of A/E Basic Services
HVAC Balancing	Ψ1.3,233			22/0 01/1/2 2 00/0 00/11/000
Staffing				
Additional CA Service	\$40,000			
Insert Row Here	1 2/2 2			
Sub TOTAL	\$183,290	1.0897	\$199,732	Escalated to Mid-Const.
5) Design Services Contingency	-			
Design Services Contingency	\$66,223			
Other				
Insert Row Here		-		
Sub TOTAL	\$66,223	1.0897	\$72,163	Escalated to Mid-Const.
CONSULTANT SERVICES TOTAL	\$728,450	Ī	\$785,794	
CONSULTAINT SERVICES TOTAL	<i>\$120,</i> 450		۶/٥٥,/94	<u> </u>

Construction Contracts						
Item	Base Amount	Escalation Factor	Escalated Cost	Notes		
1) Site Work						
G10 - Site Preparation	\$339,375					
G20 - Site Improvements	\$202,500					
G30 - Site Mechanical Utilities	\$430,800					
G40 - Site Electrical Utilities	\$274,850					
G60 - Other Site Construction						
Other						
Insert Row Here						
Sub TOTAL	\$1,247,525	1.0828	\$1,350,821			
2) Related Project Costs						
Offsite Improvements						
City Utilities Relocation						
Parking Mitigation						
Stormwater Retention/Detention			,			
Other						
Insert Row Here						
Sub TOTAL	\$0	1.0828	\$0			
3) Facility Construction						
A10 - Foundations						
A20 - Basement Construction						
B10 - Superstructure						
B20 - Exterior Closure						
B30 - Roofing						
C10 - Interior Construction						
C20 - Stairs						
C30 - Interior Finishes						
D10 - Conveying						
D20 - Plumbing Systems						
D30 - HVAC Systems						
D40 - Fire Protection Systems						
D50 - Electrical Systems						
F10 - Special Construction	4					
F20 - Selective Demolition	\$1,564,270					
General Conditions	\$141,000		1			
General Contractor Overhead & Profit	\$531,503					
Insert Row Here						
Sub TOTAL	\$2,236,773	1.0897	\$2,437,412			
4) Maximum Allowable Construction C	ost					
MACC Sub TOTAL	\$3,484,298		\$3,788,233			
MACC SUB TOTAL	Ç3, 7 07,230		75,700,233			

	This Section is	Intentionally Left	Blank	
7) Construction Contingency				
Allowance for Change Orders	\$348,430			
Other	. ,			
Insert Row Here				
Sub TOTAL	\$348,430	1.0897	\$379,684	
8) Non-Taxable Items				
Other				
Insert Row Here				
Sub TOTAL	\$0	1.0897	\$0	
Sales Tax				
Sub TOTAL	\$321,949		\$350,106	
CONSTRUCTION CONTRACTS TOTAL	\$4,154,677		\$4,518,023	

	Project Management							
ltem	Base Amount		Escalation Factor	Escalated Cost	Notes			
Agency Project Management	\$0							
Additional Services	\$80,000							
Other								
Insert Row Here								
PROJECT MANAGEMENT TOTAL	\$80,000		1.0897	\$87,176				

Other Costs						
ltem	Base Amount	Escalation Factor	Escalated Cost	Notes		
Mitigation Costs						
Hazardous Material						
Remediation/Removal						
Historic and Archeological Mitigation						
Permits	\$30,000					
Unforseen ACM /Utilities	\$0					
OTHER COSTS TOTAL	\$30,000	1.0828	\$32,484			

State of Washington

AGENCY / INSTITUTION PROJECT COST SUMMARY

Agency 353 - Center for Deaf and Hard of Hearing Youth
Project Name Academic & Physical Education Building - Phase-II: Building & Site
OFM Project Number 30000036

Contact Information				
Name	Shauna Bilyeu			
Phone Number	(360) 418-0402			
Email	shauna.bilyeu@cdhl.wa.gov			

Statistics						
Gross Square Feet	60,000	MACC per Square Foot	\$563			
Usable Square Feet	43,500	Escalated MACC per Square Foot	\$652			
Space Efficiency	72.5%	A/E Fee Class	Α			
Construction Type	Special schools for physi	A/E Fee Percentage	7.68%			
Remodel	No	Projected Life of Asset (Years)	50			
	Additional Project Details					
Alternative Public Works Project	Yes	Art Requirement Applies	Yes			
Inflation Rate	3.12%	Higher Ed Institution	No			
Sales Tax Rate %	8.40%	Location Used for Tax Rate	Vancouver WA			
Contingency Rate	5%					
Base Month	June-18					
Project Administered By	DES					

Schedule					
Predesign Start	December-18	Predesign End	July-19		
Design Start	July-21	Design End	June-22		
Construction Start	July-22	Construction End	May-24		
Construction Duration	22 Months				

Project Cost Estimate					
Total Project	\$43,603,489	Total Project Escalated	\$50,510,900		
		Rounded Escalated Total	\$50,511,000		

STATE OF WASHINGTON

AGENCY / INSTITUTION PROJECT COST SUMMARY

Agency 353 - Center for Deaf and Hard of Hearing Youth
Project Name Academic & Physical Education Building - Phase-II: Building & Site
OFM Project Number 30000036

Cost Estimate Summary

	Acc	quisition	
Acquisition Subtotal	\$0	Acquisition Subtotal Escalated	\$0
		tant Services	
Predesign Services	\$180,000		
A/E Basic Design Services	\$0		
Extra Services	\$300,000		
Other Services	\$400,000		
Design Services Contingency	\$44,000		
Consultant Services Subtotal	\$924,000	Consultant Services Subtotal Escalated	\$1,050,141
		struction	
GC/CM Risk Contingency	\$1,688,654		
GC/CM or D/B Costs	\$0		
Construction Contingencies	\$1,688,654	Construction Contingencies Escalated	\$1,969,140
Maximum Allowable Construction	\$33,773,074	Maximum Allowable Construction Cost	\$39,132,404
Cost (MACC)	\$55,775,074	(MACC) Escalated	\$39,132,404
Sales Tax	\$3,120,632	Sales Tax Escalated	\$3,617,938
Construction Subtotal	\$40,271,013	Construction Subtotal Escalated	\$46,688,622
		uipment	
Equipment	\$1,695,400		
Sales Tax	\$142,414		
Non-Taxable Items	\$0		
Equipment Subtotal	\$1,837,814	Equipment Subtotal Escalated	\$2,143,075
	A	rtwork	
Artwork Subtotal	\$195,662	Artwork Subtotal Escalated	\$195,662
	Agency Proje	ect Administration	
Agency Project Administration	\$0		
Subtotal			
DES Additional Services Subtotal	\$80,000		
Other Project Admin Costs	\$0		
Project Administration Subtotal	\$255,000	Project Administation Subtotal Escalated	\$297,356
	•		
	9120,000	ner Costs	
Other Costs Subtotal		Other Costs Subtotal Escalated	\$136,044

Project Cost Estimate						
Total Project	\$43,603,489	Total Project Escalated	\$50,510,900			
		Rounded Escalated Total	\$50,511,000			
		Rounded Escalated Total	\$5			

	Consultant Services					
Item	Base Amount	Escalation Factor	Escalated Cost	Notes		
1) Pre-Schematic Design Services						
Programming/Site Analysis						
Environmental Analysis						
Predesign Study						
D-B Procurement Assistance	\$180,000					
Insert Row Here						
Sub TOTAL	\$180,000	1.0994	\$197,892	Escalated to Design Start		
2) Construction Documents						
	\$1,879,188			600/ of A/E Dasis Samisas		
A/E Basic Design Services Adjust for D-B	-\$1,879,188			69% of A/E Basic Services		
Insert Row Here	-\$1,675,166					
Sub TOTAL	\$0	1.1150	ŚŊ	Escalated to Mid-Design		
Sub TOTAL	30	1.1150	30	Localatea to Wild-Design		
3) Extra Services						
Civil Design (Above Basic Svcs)	incl. in D-B					
Geotechnical Investigation	\$15,000					
Commissioning	\$140,000					
Site Survey	\$25,000					
Testing	\$120,000					
LEED Services						
Voice/Data Consultant	incl. in D-B					
Value Engineering						
Constructability Review	incl. in D-B					
Environmental Mitigation (EIS)	\$0					
Landscape Consultant	incl. in D-B					
Other						
Insert Row Here						
Sub TOTAL	\$300,000	1.1150	\$334,500	Escalated to Mid-Design		
4) Other Comiese						
4) Other Services Bid/Construction/Closeout	\$844,273			31% of A/E Basic Services		
HVAC Balancing	\$644,275			51% Of A/E basic services		
Staffing						
Adjust for D-B	-\$844,273					
DB Validation	\$400,000					
Sub TOTAL	\$400,000	1.1661	\$466 440	Escalated to Mid-Const.		
305 101AL	Ş 400,000	1.1001	Ş-00,4 -0	Localdica to Wild Collot.		
5) Design Services Contingency						
Design Services Contingency	\$44,000					
Other						
Insert Row Here						
Sub TOTAL	\$44,000	1.1661	\$51,309	Escalated to Mid-Const.		
CONSULTANT SERVICES TOTAL	\$924,000		\$1,050,141			

	Construction Contracts					
Item	Base Amount	Escalation	Escalated Cost	Notes		
1) Site Work		Factor				
G10 - Site Preparation	\$1,254,719					
G20 - Site Improvements	\$2,167,703					
G30 - Site Mechanical Utilities	\$561,000					
G40 - Site Electrical Utilities	\$577,500					
G60 - Other Site Construction	φοιί,σου					
Demolition of Divine/Hunter	\$475,200					
Site Design Engineering	\$604,335					
Site General Conditions	\$676,855					
Design/Builder OH&P	\$315,866					
Insert Row Here						
Sub TOTAL	\$6,633,177	1.1337	\$7,520,034			
2) Related Project Costs						
Offsite Improvements	\$550,000					
City Utilities Relocation						
Parking Mitigation						
Stormwater Retention/Detention			-			
Temporary Construction and Phasing	\$427,314					
Design Engineering	\$117,278					
Sub TOTAL	\$1,094,591	1.1337	\$1,240,939			
3) Facility Construction						
A10 - Foundations	\$1,175,350					
A20 - Basement Construction	\$0					
B10 - Superstructure	\$2,502,789					
B20 - Exterior Closure	\$3,639,402					
B30 - Roofing	\$2,155,395					
C10 - Interior Construction	\$1,848,000					
C20 - Stairs	\$88,000 \$1,468,500					
C30 - Interior Finishes D10 - Conveying	\$1,468,500					
D20 - Plumbing Systems	\$825,000					
D20 - Platfibling Systems D30 - HVAC Systems	\$2,244,000					
D40 - Fire Protection Systems	\$280,500					
D50 - Electrical Systems	\$2,673,000					
F10 - Special Construction	\$764,500					
F20 - Selective Demolition	\$0					
General Conditions	\$2,372,932					
Design & Engineering	\$2,657,684					
Design Builder OH & Profit	\$1,240,253					
Insert Row Here						
Sub TOTAL	\$26,045,305	1.1661	\$30,371,431			
4) Maximum Allowable Construction Co	ost					
MACC Sub TOTAL	\$33,773,074		\$39,132,404			
nase-II	CDHY Academic Phy	rcical Education				

5) GCCM Risk Contingency				
GCCM Risk Contingency			•	
D-B Risk Contingency	\$1,688,654			
Insert Row Here				
Sub TOTAL	\$1,688,654	1.1661	\$1,969,140	
6) 00004				
6) GCCM or Design Build Costs				
GCCM Fee				
Bid General Conditions	Included above			
GCCM Preconstruction Services			,	
Insert Row Here	40	1.1001	40	
Sub TOTAL	\$0	1.1661	\$0	
7) Construction Continuous				
7) Construction Contingency	¢4.000.054			
Allowance for Change Orders	\$1,688,654		Ī	
Other				
Insert Row Here	\$4.500.554	4.4664	64.050.440	
Sub TOTAL	\$1,688,654	1.1661	\$1,969,140	
8) Non-Taxable Items				
Other			ı	
Insert Row Here				
	\$0	1.1661	ćo	
Sub TOTAL	\$0	1.1001	\$0	
Sales Tax				
l	\$3,120,632		ć2 C17 020	ĺ
Sub TOTAL	\$3,120,632		\$3,617,938	
CONSTRUCTION CONTRACTS TOTAL	\$40,271,013		\$46,688,622	

Equipment						
ltem	Base Amount		Escalation Factor	Escalated Cost	Notes	
E10 - Equipment	\$694,400					
E20 - Furnishings	\$1,001,000					
F10 - Special Construction				_		
Other						
Insert Row Here			_			
Sub TOTAL	\$1,695,400		1.1661	\$1,977,006		
1) Non Taxable Items				_		
Other						
Insert Row Here			_			
Sub TOTAL	\$0		1.1661	\$0		
		,				
Sales Tax						
Sub TOTAL	\$142,414			\$166,069		
EQUIPMENT TOTAL	\$1,837,814			\$2,143,075		

Artwork						
Item	Base Amount	Escalation Factor	Escalated Cost	Notes		
Project Artwork	\$195,662			0.5% of Escalated MACC for new construction		
Higher Ed Artwork	\$0			0.5% of Escalated MACC for new and renewal construction		
Other						
Insert Row Here						
ARTWORK TOTAL	\$195,662	NA	\$195,662			

	Project Management						
Item	Base Amount		Escalation Factor	Escalated Cost	Notes		
Agency Project Management	\$0						
Additional Services	\$80,000						
On-Site Observer	\$175,000						
Insert Row Here			_				
PROJECT MANAGEMENT TOTAL	\$255,000		1.1661	\$297,356			

	Other Costs						
Item	Base Amount	Escalation	Escalated Cost	Notes			
		Factor					
Mitigation Costs							
Hazardous Material							
Remediation/Removal							
Historic and Archeological Mitigation							
Permits	\$120,000						
OTHER COSTS TOTAL	\$120,000	1.1337	\$136,044				



State of Washington

AGENCY / INSTITUTION PROJECT COST SUMMARY

Agency 353 - Center for Deaf and Hard of Hearing Youth
Project Name Academic & Physical Education Building - Phase-I: Demolition & Utilities
OFM Project Number 30000036

Contact Information				
Name	Shauna Bilyeu			
Phone Number	(360) 418-0402			
Email	shauna.bilyeu@cdhl.wa.gov			

Statistics					
Gross Square Feet	0	MACC per Square Foot			
Usable Square Feet	0	Escalated MACC per Square Foot			
Space Efficiency		A/E Fee Class	В		
Construction Type	Schools (primary and see	A/E Fee Percentage	12.06%		
Remodel	Yes	Projected Life of Asset (Years)	50		
	Additiona	al Project Details			
Alternative Public Works Project	No	Art Requirement Applies	No		
Inflation Rate	3.12%	Higher Ed Institution	No		
Sales Tax Rate %	8.40%	Location Used for Tax Rate	Vancouver WA		
Contingency Rate	10%				
Base Month	June-18				
Project Administered By	DES				

Schedule					
Predesign Start	December-18	Predesign End	July-19		
Design Start	July-20	Design End	December-20		
Construction Start	January-21	Construction End	June-21		
Construction Duration	5 Months]			

Project Cost Estimate					
Total Project	\$4,993,127	Total Project Escalated	\$5,423,477		
		Rounded Escalated Total	\$5,423,000		

STATE OF WASHINGTON

AGENCY / INSTITUTION PROJECT COST SUMMARY

Agency 353 - Center for Deaf and Hard of Hearing Youth
Project Name Academic & Physical Education Building - Phase-I: Demolition & Utilities
OFM Project Number 30000036

Cost Estimate Summary

	Acc	quisition	
Acquisition Subtotal	\$0	Acquisition Subtotal Escalated	\$0
_		ant Services	
Predesign Services	\$0		
A/E Basic Design Services	\$318,937		
Extra Services	\$160,000		
Other Services	\$183,290		
Design Services Contingency	\$66,223	_	
Consultant Services Subtotal	\$728,450	Consultant Services Subtotal Escalated	\$785,794
	Con	struction	
	Con	struction	
Construction Contingencies	\$348,430	Construction Contingencies Escalated	\$379,684
Maximum Allowable Construction	\$3,484,298	Maximum Allowable Construction Cost	\$3,788,233
Cost (MACC)	\$3,464,236	(MACC) Escalated	73,766,233
Sales Tax	\$321,949	Sales Tax Escalated	\$350,106
Construction Subtotal	\$4,154,677	Construction Subtotal Escalated	\$4,518,023
	Fai	uipment	
Equipment	\$0		
Sales Tax	\$0		
Non-Taxable Items	\$0		
Equipment Subtotal	\$0	Equipment Subtotal Escalated	\$0
	· L		·
		rtwork	**
Artwork Subtotal	\$0	Artwork Subtotal Escalated	\$0
	Agency Proje	ct Administration	
Agency Project Administration Subtotal	\$0		
DES Additional Services Subtotal	\$80,000		
Other Project Admin Costs	\$80,000		
Project Administration Subtotal	\$80,000	Project Administation Subtotal Escalated	\$87,176
	Oth	er Costs	
Other Costs Subtotal	\$30,000	Other Costs Subtotal Escalated	\$32,484

Project Cost Estimate					
Total Project	\$4,993,127	Total Project Escalated	\$5,423,477		
		Rounded Escalated Total	\$5,423,000		

	Consul	tant Services		
Item	Base Amount	Escalation Factor	Escalated Cost	Notes
1) Pre-Schematic Design Services				
Programming/Site Analysis				
Environmental Analysis				
Predesign Study				
Other	\$0			
Insert Row Here				
Sub TOTAL	\$0	1.0662	\$0	Escalated to Design Start
2) Construction Documents				
A/E Basic Design Services	\$318,937			69% of A/E Basic Services
Other	Ş310,337			03/0 Of Ay L basic Services
Insert Row Here				
Sub TOTAL	\$318,937	1.0730	\$342,219	Escalated to Mid-Design
	12 3/23		,,,,	
3) Extra Services				
Civil Design (Above Basic Svcs)	\$55,000			
Geotechnical Investigation				
Commissioning				
Site Survey				
Testing	\$25,000			
LEED Services				
Voice/Data Consultant				
Value Engineering				
Constructability Review				
Environmental Mitigation (EIS)	\$50,000			
Landscape Consultant	\$30,000			
Other				
Insert Row Here				
Sub TOTAL	\$160,000	1.0730	\$171,680	Escalated to Mid-Design
4) Other Services				
Bid/Construction/Closeout	\$143,290			31% of A/E Basic Services
HVAC Balancing	Ψ1.3,233			22/0 01/1/2 2 00/0 00/11/000
Staffing				
Additional CA Service	\$40,000			
Insert Row Here	1 2/2 2 2			
Sub TOTAL	\$183,290	1.0897	\$199,732	Escalated to Mid-Const.
5) Design Services Contingency	-			
Design Services Contingency	\$66,223			
Other				
Insert Row Here		-		
Sub TOTAL	\$66,223	1.0897	\$72,163	Escalated to Mid-Const.
CONSULTANT SERVICES TOTAL	\$728,450	Ī	\$785,794	
CONSULTAINT SERVICES TOTAL	<i>\$120,</i> 450		۶/٥٥,/94	<u> </u>

	Construc	ction Contracts		
Item	Base Amount	Escalation Factor	Escalated Cost	Notes
1) Site Work				
G10 - Site Preparation	\$339,375			
G20 - Site Improvements	\$202,500			
G30 - Site Mechanical Utilities	\$430,800			
G40 - Site Electrical Utilities	\$274,850			
G60 - Other Site Construction				
Other				
Insert Row Here				
Sub TOTAL	\$1,247,525	1.0828	\$1,350,821	
2) Related Project Costs				
Offsite Improvements				
City Utilities Relocation				
Parking Mitigation				
Stormwater Retention/Detention			,	
Other				
Insert Row Here				
Sub TOTAL	\$0	1.0828	\$0	
3) Facility Construction				
A10 - Foundations				
A20 - Basement Construction				
B10 - Superstructure				
B20 - Exterior Closure				
B30 - Roofing				
C10 - Interior Construction				
C20 - Stairs				
C30 - Interior Finishes				
D10 - Conveying				
D20 - Plumbing Systems				
D30 - HVAC Systems				
D40 - Fire Protection Systems				
D50 - Electrical Systems				
F10 - Special Construction	4			
F20 - Selective Demolition	\$1,564,270			
General Conditions	\$141,000		1	
General Contractor Overhead & Profit	\$531,503			
Insert Row Here				
Sub TOTAL	\$2,236,773	1.0897	\$2,437,412	
4) Maximum Allowable Construction C	ost			
MACC Sub TOTAL	\$3,484,298		\$3,788,233	
MACC SUB TOTAL	Ç3, 7 07,230		75,700,233	

	This Section is	Intentionally Left	Blank	
7) Construction Contingency				
Allowance for Change Orders	\$348,430		-	
Other				
Insert Row Here				
Sub TOTAL	\$348,430	1.0897	\$379,684	
Ol New Touchle House				
8) Non-Taxable Items			i	
Other Insert Row Here				
Sub TOTAL	\$0	1.0897	\$0	
SUB TOTAL	\$0	1.0657	\$0	
Sales Tax				
Sub TOTAL	\$321,949		\$350,106	
535 101AL	¥3=2,3+3		4555,200	
CONSTRUCTION CONTRACTS TOTAL	\$4,154,677		\$4,518,023	

	Project Management						
ltem	Base Amount		Escalation Factor	Escalated Cost	Notes		
Agency Project Management	\$0						
Additional Services	\$80,000						
Other							
Insert Row Here							
PROJECT MANAGEMENT TOTAL	\$80,000		1.0897	\$87,176			

Other Costs						
ltem	Base Amount	Escalation Factor	Escalated Cost	Notes		
Mitigation Costs						
Hazardous Material						
Remediation/Removal						
Historic and Archeological Mitigation						
Permits	\$30,000					
Unforseen ACM /Utilities	\$0					
OTHER COSTS TOTAL	\$30,000	1.0828	\$32,484			

AGENCY / INSTITUTION PROJECT COST SUMMARY Agency Project Name OFM Project Number STATE OF WASHINGTON AGENCY / INSTITUTION PROJECT COST SUMMARY 353 - Center for Deaf and Hard of Hearing Youth Academic & Physical Ed. Building - Phase-II: Addition 30000036

Contact Information				
Name	Shauna Bilyeu			
Phone Number	(360) 418-0402			
Email	shauna.bilyeu@cdhl.wa.gov			

Statistics						
Gross Square Feet	30,000	MACC per Square Foot	\$506			
Usable Square Feet	20,000	Escalated MACC per Square Foot	\$583			
Space Efficiency	66.7%	A/E Fee Class	А			
Construction Type	Special schools for physi	A/E Fee Percentage	8.75%			
Remodel	No	Projected Life of Asset (Years)	50			
	Additional Project Details					
Alternative Public Works Project	Yes	Art Requirement Applies	Yes			
Inflation Rate	3.12%	Higher Ed Institution	No			
Sales Tax Rate %	8.40%	Location Used for Tax Rate	Vancouver WA			
Contingency Rate	5%					
Base Month	June-18					
Project Administered By	DES					

Schedule					
Predesign Start	December-18	Predesign End	July-19		
Design Start	July-21	Design End	June-22		
Construction Start	July-22	Construction End	September-23		
Construction Duration	14 Months				

Project Cost Estimate					
Total Project	\$22,999,376	Total Project Escalated	\$26,418,862		
		Rounded Escalated Total	\$26,419,000		

State of Washington

AGENCY / INSTITUTION PROJECT COST SUMMARY

Agency 353 - Center for Deaf and Hard of Hearing Youth
Project Name Academic & Physical Ed. Building - Phase-II: Addition
OFM Project Number 30000036

Cost Estimate Summary

	Acc	quisition			
Acquisition Subtotal	\$0	Acquisition Subtotal Escalated	\$0		
		ant Services			
Predesign Services	\$85,000				
A/E Basic Design Services	\$962,514				
Extra Services	\$591,000				
Other Services	\$612,434				
Design Services Contingency	\$112,547				
Consultant Services Subtotal	\$2,363,496	Consultant Services Subtotal Escalated	\$2,662,465		
20/20/20/10		struction			
GC/CM Risk Contingency	\$759,156				
GC/CM or D/B Costs	\$778,268				
Construction Contingencies	\$759,156	Construction Contingencies Escalated	\$876,294		
Maximum Allowable Construction	\$15,183,113	Maximum Allowable Construction Cost	\$17,481,249		
Cost (MACC)		(MACC) Escalated			
Sales Tax	\$1,468,294	Sales Tax Escalated	\$1,691,105		
Construction Subtotal	\$18,947,986	Construction Subtotal Escalated	\$21,823,297		
	Equ	uipment			
Equipment	\$1,232,000				
Sales Tax	\$103,488				
Non-Taxable Items	\$0				
Equipment Subtotal	\$1,335,488	Equipment Subtotal Escalated	\$1,541,555		
	A	rtwork			
Artwork Subtotal	\$87,406	Artwork Subtotal Escalated	\$87,406		
	A many and Dura 'a	A A double to the state of the			
A server Best and Administration	Agency Proje	ct Administration			
Agency Project Administration	\$0				
Subtotal	0.40.000				
DES Additional Services Subtotal	\$40,000				
Other Project Admin Costs	\$0	ı			
Project Administration Subtotal	\$180,000	Project Administation Subtotal Escalated	\$207,774		
Other Costs					
	Oth	er Costs			

Project Cost Estimate						
Total Project	\$22,999,376	Total Project Escalated	\$26,418,862			
		Rounded Escalated Total	\$26,419,000			
	CDHY Academic Physical Education Building					

Phase-II: Addition Alternative-3

Cost Summary

	Consul	tant Services		
Item	Base Amount	Escalation Factor	Escalated Cost	Notes
1) Pre-Schematic Design Services				
Programming/Site Analysis				
Environmental Analysis				
Predesign Study				
GCCM Procurement Assistance	\$85,000			
Insert Row Here				
Sub TOTAL	\$85,000	1.0994	\$93,449	Escalated to Design Start
2) Construction Documents				
A/E Basic Design Services	\$962,514			69% of A/E Basic Services
A/ L basic besign services	\$302,314			03/0 Of Ay L basic Services
Insert Row Here				
Sub TOTAL	\$962,514	1.1150	\$1,073,204	Escalated to Mid-Design
3) Extra Services				
Civil Design (Above Basic Svcs)	\$75,000			
Geotechnical Investigation	\$16,000			
Commissioning	\$85,000			
Site Survey	\$30,000			
Testing	\$75,000			
LEED Services	\$85,000			
Voice/Data Consultant	\$60,000			
Value Engineering	\$50,000			
Constructability Review	\$50,000			
Environmental Mitigation (EIS)	\$0			
Landscape Consultant	\$65,000			
Other				
Insert Row Here				
Sub TOTAL	\$591,000	1.1150	\$658,965	Escalated to Mid-Design
4) Other Services				
Bid/Construction/Closeout	\$432,434			31% of A/E Basic Services
HVAC Balancing	7732,434			51/0 Of Fy L Dusic Sel Vices
Staffing				
Additional CA Administration	\$180,000			
Insert Row Here	7100,000			
Sub TOTAL	\$612,434	1.1543	\$706 022	Escalated to Mid-Const.
JUD TOTAL	7012,434	1.1343	Ş700, 3 33	Esculated to Ivila-Collst.
5) Design Services Contingency				
Design Services Contingency	\$112,547			
Other				
Insert Row Here				
Sub TOTAL	\$112,547	1.1543	\$129,914	Escalated to Mid-Const.
CONSULTANT SERVICES TOTAL	\$2,363,496		\$2,662,465	

Construction Contracts					
Item	Base Amount	Escalation Factor	Escalated Cost	Notes	
1) Site Work					
G10 - Site Preparation	\$800,000				
G20 - Site Improvements	\$300,000				
G30 - Site Mechanical Utilities	\$300,000				
G40 - Site Electrical Utilities	\$400,000				
G60 - Other Site Construction			Ī		
Demolition of Existing Buildings	\$0				
Site General Conditions	\$216,000				
Insert Row Here		-			
Sub TOTAL	\$2,016,000	1.1337	\$2,285,540		
2) Related Project Costs					
Offsite Improvements	\$0				
City Utilities Relocation	ŞU				
Parking Mitigation					
Stormwater Retention/Detention					
Stormwater Neterition/ Determion					
Temporary Construction and Phasing	\$150,000				
Sub TOTAL	\$150,000	1.1337	\$170,055		
			. ,		
3) Facility Construction					
A10 - Foundations	\$480,000				
A20 - Basement Construction					
AZO - Dasement Constituction	\$0				
B10 - Superstructure	\$0 \$1,200,000				
I	· ·				
B10 - Superstructure	\$1,200,000				
B10 - Superstructure B20 - Exterior Closure	\$1,200,000 \$1,620,000				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000 \$750,000 \$104,000				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000 \$750,000 \$104,000 \$420,000				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000 \$750,000 \$104,000 \$420,000 \$1,500,000				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000 \$750,000 \$104,000 \$420,000 \$1,500,000 \$165,000				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000 \$750,000 \$104,000 \$420,000 \$1,500,000 \$1,500,000				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000 \$750,000 \$104,000 \$420,000 \$1,500,000 \$1,500,000 \$1,500,000 \$350,000				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems F10 - Special Construction F20 - Selective Demolition	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000 \$750,000 \$104,000 \$420,000 \$1,500,000 \$1,500,000 \$350,000 \$150,000				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems F10 - Special Construction F20 - Selective Demolition General Conditions	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000 \$750,000 \$104,000 \$420,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems F10 - Special Construction F20 - Selective Demolition General Conditions	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000 \$750,000 \$104,000 \$420,000 \$1,500,000 \$1,500,000 \$350,000 \$150,000				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems F10 - Special Construction F20 - Selective Demolition General Conditions OH&P	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$1,350,000 \$750,000 \$104,000 \$420,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,504,633				
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems F10 - Special Construction F20 - Selective Demolition General Conditions	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000 \$750,000 \$104,000 \$420,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000 \$1,500,000	1.1543	\$15,025,654		
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems F10 - Special Construction F20 - Selective Demolition General Conditions OH&P Insert Row Here	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000 \$750,000 \$104,000 \$420,000 \$1,500,000 \$1,500,000 \$150,000 \$1,233,480 \$1,504,633	1.1543	\$15,025,654		
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems F10 - Special Construction F20 - Selective Demolition General Conditions OH&P	\$1,200,000 \$1,620,000 \$600,000 \$1,350,000 \$90,000 \$750,000 \$104,000 \$420,000 \$1,500,000 \$1,500,000 \$150,000 \$1,233,480 \$1,504,633	1.1543	\$15,025,654		

5) CCCM Piel Coutings				
5) GCCM Risk Contingency	6750.456			
GCCM Risk Contingency	\$759,156		1	
In cart Day Have				
Insert Row Here Sub TOTAL	6750.456	4.4542	Ć07C 204	
Sub IOTAL	\$759,156	1.1543	\$876,294	
6) GCCM or Design Build Costs				
GCCM Fee	\$478,268			
Bid General Conditions				
GCCM Preconstruction Services	\$300,000			
Other				
Insert Row Here				
Sub TOTAL	\$778,268	1.1543	\$898,355	
7) Construction Contingency				
Allowance for Change Orders	\$759,156		Ī	
Other				
Insert Row Here				
Sub TOTAL	\$759,156	1.1543	\$876,294	
8) Non-Taxable Items				
Other				
Insert Row Here				
Sub TOTAL	\$0	1.1543	\$0	
Sales Tax		i		İ
Sub TOTAL	\$1,468,294		\$1,691,105	
CONSTRUCTION CONTRACTS TOTAL	\$18,947,986		\$21,823,297	

Equipment					
Item	Base Amount	Escalation Factor	Escalated Cost	Notes	
E10 - Equipment	\$462,000				
E20 - Furnishings	\$770,000				
F10 - Special Construction					
Other					
Insert Row Here					
Sub TOTAL	\$1,232,000	1.1543	\$1,422,098		
1) Non Taxable Items					
Other					
Insert Row Here					
Sub TOTAL	\$0	1.1543	\$0		
Sales Tax					
Sub TOTAL	\$103,488		\$119,457		
EQUIPMENT TOTAL	\$1,335,488		\$1,541,555		

Artwork						
ltem	Base Amount	Escalation Factor	Escalated Cost	Notes		
Project Artwork	\$87,406			0.5% of Escalated MACC for new construction		
Higher Ed Artwork	\$0			0.5% of Escalated MACC for new and renewal construction		
Other						
Insert Row Here						
ARTWORK TOTAL	\$87,406	NA	\$87,406			

	Project Management					
ltem	Base Amount		Escalation Factor	Escalated Cost	Notes	
Agency Project Management	\$0					
Additional Services	\$40,000					
Site Observer	\$140,000					
Insert Row Here						
PROJECT MANAGEMENT TOTAL	\$180,000		1.1543	\$207,774		

Other Costs					
ltem	Base Amount	Escalation Factor	Escalated Cost	Notes	
Mitigation Costs					
Hazardous Material					
Remediation/Removal					
Historic and Archeological Mitigation					
Permits	\$85,000				
OTHER COSTS TOTAL	\$85,000	1.1337	\$96,365		

AGENCY / INSTITUTION PROJECT COST SUMMARY Agency Project Name OFM Project Number STATE OF WASHINGTON AGENCY / INSTITUTION PROJECT COST SUMMARY 353 - Center for Deaf and Hard of Hearing Youth Academic & Physical Ed. Building - Phase-III: Renovation 30000036

Contact Information				
Name	Shauna Bilyeu			
Phone Number	(360) 418-0402			
Email	shauna.bilyeu@cdhl.wa.gov			

Statistics					
Gross Square Feet	36,000	MACC per Square Foot	\$367		
Usable Square Feet	24,000	Escalated MACC per Square Foot	\$440		
Space Efficiency	66.7%	A/E Fee Class	А		
Construction Type	Special schools for physi	A/E Fee Percentage	11.93%		
Remodel	Yes	Projected Life of Asset (Years)	50		
	Additiona	al Project Details			
Alternative Public Works Project	Yes	Art Requirement Applies	Yes		
Inflation Rate	3.12%	Higher Ed Institution	No		
Sales Tax Rate %	8.40%	Location Used for Tax Rate	Vancouver WA		
Contingency Rate	5%				
Base Month	June-18				
Project Administered By	DES				

Schedule					
Predesign Start	December-18	Predesign End	July-19		
Design Start	July-21	Design End	June-22		
Construction Start	October-23	Construction End	December-24		
Construction Duration	14 Months				

Project Cost Estimate				
Total Project	\$19,860,687	Total Project Escalated	\$23,669,513	
		Rounded Escalated Total	\$23,670,000	

STATE OF WASHINGTON

AGENCY / INSTITUTION PROJECT COST SUMMARY

353 - Center for Deaf and Hard of Hearing Youth Agency Academic & Physical Ed. Building - Phase-III: Renovation **Project Name** 30000036 **OFM Project Number**

Cost Estimate Summary

	Acc	uisition	
Acquisition Subtotal	\$0	Acquisition Subtotal Escalated	\$0
		ant Services	
Predesign Services	\$0		
A/E Basic Design Services	\$1,142,038		
Extra Services	\$225,000		
Other Services	\$653,090		
Design Services Contingency	\$101,006		
Consultant Services Subtotal	\$2,121,134	Consultant Services Subtotal Escalated	\$2,428,787
		struction	
GC/CM Risk Contingency	\$660,650		
GC/CM or D/B Costs	\$416,210		
Construction Contingencies	\$660,650	Construction Contingencies Escalated	\$792,451
Maximum Allowable Construction	\$13,213,008	Maximum Allowable Construction Cost	\$15,830,303
Cost (MACC)		(MACC) Escalated	713,030,303
Sales Tax	\$1,255,844	Sales Tax Escalated	\$1,504,814
Construction Subtotal	\$16,206,362	Construction Subtotal Escalated	\$19,419,263
	Fau	ipment	
Equipment	\$1,060,000	mpriterit	
Sales Tax	\$89,040		
Non-Taxable Items	\$0		
Equipment Subtotal	\$1,149,040	Equipment Subtotal Escalated	\$1,378,274
zquipinent subtotui	ψ±)± 15)6 16	Equipment outstatul Escalateu	ψ=,στσ,=τ
	A	rtwork	
Artwork Subtotal	\$79,152	Artwork Subtotal Escalated	\$79,152
	· · · · ·		
	Agency Proje	ct Administration	
Agency Project Administration	ćo		
Subtotal	\$0		
DES Additional Services Subtotal	\$80,000		
Other Project Admin Costs	\$0		
Project Administration Subtotal	\$220,000	Project Administation Subtotal Escalated	\$263,890
	Oth	er Costs	
Other Costs Subtotal	\$85,000	Other Costs Subtotal Escalated	\$100,147
Cinc. Costs Subtotal	703,000	O their Costs Subtotul Estalated	7100,147

Project Cost Estimate				
Total Project	\$19,860,687	Total Project Escalated	\$23,669,513	
		Rounded Escalated Total	\$23,670,000	
CDHY Academic Physical Education Building				
Phase-III: Renovation	Alte	rnative-3		

Phase-III: Renovation

Cost Summary

Consultant Services					
Item	Base Amount	Escalation Factor	Escalated Cost	Notes	
1) Pre-Schematic Design Services					
Programming/Site Analysis					
Environmental Analysis					
Predesign Study					
Incl. in Phase-II	\$0				
Insert Row Here					
Sub TOTAL	\$0	1.0994	\$0	Escalated to Design Start	
2) Construction Documents					
A/E Basic Design Services	\$1,142,038			69% of A/E Basic Services	
A/E basic design services	\$1,142,038			03% Of A/E Basic Services	
Insert Row Here					
Sub TOTAL	\$1,142,038	1.1150	\$1,273,373	Escalated to Mid-Design	
3) Extra Services					
Civil Design (Above Basic Svcs)	\$45,000				
Geotechnical Investigation	\$0				
Commissioning	\$85,000				
Site Survey	\$0				
Testing	\$60,000				
LEED Services	\$0				
Voice/Data Consultant i	ncl. in Phase-II				
Value Engineering i					
Constructability Review i					
Environmental Mitigation (EIS)	\$0				
Landscape Consultant	\$35,000				
Other					
Insert Row Here					
Sub TOTAL	\$225,000	1.1150	\$250,875	Escalated to Mid-Design	
4) Other Services					
Bid/Construction/Closeout	\$513,090			31% of A/E Basic Services	
HVAC Balancing	7515,050			3170 OF Ay E Busic Services	
Staffing					
Additional CA Services	\$140,000				
Insert Row Here	7140,000				
Sub TOTAL	\$653,090	1.1995	\$783 381	Escalated to Mid-Const.	
Sub TOTAL	7033,030	1.1333	7703,361	Localated to Wild Collot.	
5) Design Services Contingency					
Design Services Contingency	\$101,006				
Other					
Insert Row Here					
Sub TOTAL	\$101,006	1.1995	\$121,158	Escalated to Mid-Const.	
CONSULTANT SERVICES TOTAL	\$2,121,134		\$2,428,787		

Construction Contracts						
Item	Base Amount	Escalation Factor	Escalated Cost	Notes		
1) Site Work						
G10 - Site Preparation	\$200,000					
G20 - Site Improvements	\$200,000					
G30 - Site Mechanical Utilities	\$100,000					
G40 - Site Electrical Utilities	\$150,000					
G60 - Other Site Construction			Ī			
Site General Conditions	\$78,000					
Insert Row Here						
Sub TOTAL	\$728,000	1.1782	\$857,730			
2) Polotod Project Costs						
2) Related Project Costs Offsite Improvements	\$0					
City Utilities Relocation	Ų					
Parking Mitigation						
Stormwater Retention/Detention						
Stormwater Retention/ Detention						
Temporary Construction and Phasing	\$150,000					
Sub TOTAL	\$150,000	1.1782	\$176,730			
Sub TOTAL	\$130,000	1.1702	Ş170,730			
3) Facility Construction						
A10 - Foundations	\$0					
I -	\$0					
 AZV - BASEMENT CONSTRUCTION! 						
A20 - Basement Construction B10 - Superstructure	\$320,000					
B10 - Superstructure	\$320,000 \$1,080,000					
B10 - Superstructure B20 - Exterior Closure	\$1,080,000					
B10 - Superstructure	\$1,080,000 \$720,000					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing	\$1,080,000					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction	\$1,080,000 \$720,000 \$1,980,000					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs	\$1,080,000 \$720,000 \$1,980,000 \$108,000					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes	\$1,080,000 \$720,000 \$1,980,000 \$108,000 \$1,080,000					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying	\$1,080,000 \$720,000 \$1,980,000 \$108,000 \$1,080,000 \$0					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems	\$1,080,000 \$720,000 \$1,980,000 \$108,000 \$1,080,000 \$0 \$504,000					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems	\$1,080,000 \$720,000 \$1,980,000 \$108,000 \$1,080,000 \$0 \$504,000 \$1,800,000					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems	\$1,080,000 \$720,000 \$1,980,000 \$108,000 \$1,080,000 \$0 \$504,000 \$1,800,000 \$198,000					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems	\$1,080,000 \$720,000 \$1,980,000 \$108,000 \$1,080,000 \$0 \$504,000 \$1,800,000 \$198,000 \$1,800,000					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems	\$1,080,000 \$720,000 \$1,980,000 \$108,000 \$1,080,000 \$0 \$504,000 \$1,800,000 \$1,800,000 \$1,800,000 \$350,000					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems F10 - Special Construction F20 - Selective Demolition	\$1,080,000 \$720,000 \$1,980,000 \$108,000 \$1,080,000 \$0 \$504,000 \$1,800,000 \$198,000 \$1,800,000 \$350,000 \$450,000					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems F10 - Special Construction F20 - Selective Demolition General Conditions	\$1,080,000 \$720,000 \$1,980,000 \$108,000 \$1,080,000 \$0 \$504,000 \$1,800,000 \$1,800,000 \$1,800,000 \$350,000 \$450,000 \$1,246,800					
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems F10 - Special Construction F20 - Selective Demolition General Conditions	\$1,080,000 \$720,000 \$1,980,000 \$108,000 \$1,080,000 \$0 \$504,000 \$1,800,000 \$1,800,000 \$1,800,000 \$350,000 \$450,000 \$1,246,800	1.1995	\$14,795,843			
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems F10 - Special Construction F20 - Selective Demolition General Conditions Contractor OH&P Insert Row Here	\$1,080,000 \$720,000 \$1,980,000 \$108,000 \$1,080,000 \$0 \$504,000 \$1,800,000 \$1,800,000 \$1,800,000 \$350,000 \$450,000 \$1,246,800 \$698,208	1.1995	\$14,795,843			
B10 - Superstructure B20 - Exterior Closure B30 - Roofing C10 - Interior Construction C20 - Stairs C30 - Interior Finishes D10 - Conveying D20 - Plumbing Systems D30 - HVAC Systems D40 - Fire Protection Systems D50 - Electrical Systems F10 - Special Construction F20 - Selective Demolition General Conditions Contractor OH&P	\$1,080,000 \$720,000 \$1,980,000 \$108,000 \$1,080,000 \$0 \$504,000 \$1,800,000 \$1,800,000 \$1,800,000 \$350,000 \$450,000 \$1,246,800 \$698,208	1.1995	\$14,795,843			

				5) CCCM Bish Courtings are
			ACCO CEO	5) GCCM Risk Contingency
	1		\$660,650	GCCM Risk Contingency
	4=00.4=4	4.000	****	Insert Row Here
	\$792,451	1.1995	\$660,650	Sub TOTAL
				6) GCCM or Design Build Costs
			\$416,210	GCCM Fee
			, ,	Bid General Conditions
				GCCM Preconstruction Services
				Other
				Insert Row Here
	\$499,244	1.1995	\$416,210	Sub TOTAL
				7) Construction Contingency
			\$660,650	Allowance for Change Orders
				Other
				Insert Row Here
	\$792,451	1.1995	\$660,650	Sub TOTAL
				8) Non-Taxable Items
				Other
				Insert Row Here
	\$0	1.1995	\$0	Sub TOTAL
				Sales Tax
 	\$1,504,814		\$1,255,844	Sub TOTAL
	\$19,419,263		\$16,206,362	CONSTRUCTION CONTRACTS TOTAL
			Ī	Sub TOTAL

Equipment						
Item	Base Amount	Escalation Factor	Escalated Cost	Notes		
E10 - Equipment	\$360,000					
E20 - Furnishings	\$700,000					
F10 - Special Construction						
Other						
Insert Row Here						
Sub TOTAL	\$1,060,000	1.1995	\$1,271,470			
1) Non Taxable Items						
Other						
Insert Row Here						
Sub TOTAL	\$0	1.1995	\$0			
Sales Tax						
Sub TOTAL	\$89,040		\$106,804			
EQUIPMENT TOTAL	\$1,149,040		\$1,378,274			

Artwork						
ltem	Base Amount	Escalation Factor	Escalated Cost	Notes		
Project Artwork	\$79,152			0.5% of Escalated MACC for new construction		
Higher Ed Artwork	\$0			0.5% of Escalated MACC for new and renewal construction		
Other						
Insert Row Here						
ARTWORK TOTAL	\$79,152	NA	\$79,152			

Project Management					
ltem		Escalation Factor	Escalated Cost	Notes	
Agency Project Management	\$0				
Additional Services	\$80,000				
Site Observer	\$140,000				
Insert Row Here					
PROJECT MANAGEMENT TOTAL	\$220,000		1.1995	\$263,890	

Other Costs					
Item	Base Amount	Escalation Factor	Escalated Cost	Notes	
Mitigation Costs					
Hazardous Material					
Remediation/Removal					
Historic and Archeological Mitigation					
Permits	\$85,000				
OTHER COSTS TOTAL	\$85,000	1.1782	\$100,147		

AGENCY / INSTITUTION PROJECT COST SUMMARY Agency Project Name OFM Project Number STATE OF WASHINGTON AGENCY / INSTITUTION PROJECT COST SUMMARY 353 - Center for Deaf and Hard of Hearing Youth Academic & Physical Ed. Building - Phase-IV: Atheletic Field/Site 30000036

Contact Information			
Name	Shauna Bilyeu		
Phone Number	(360) 418-0402		
Email	shauna.bilyeu@cdhl.wa.gov		

Statistics				
Gross Square Feet	66,000	MACC per Square Foot	\$43	
Usable Square Feet	45,000	Escalated MACC per Square Foot	\$53	
Space Efficiency	68.2%	A/E Fee Class	Α	
Construction Type	Special schools for physi	A/E Fee Percentage	13.73%	
Remodel	Yes	Projected Life of Asset (Years)	50	
	Additiona	al Project Details		
Alternative Public Works Project	Yes	Art Requirement Applies	No	
Inflation Rate	3.12%	Higher Ed Institution	No	
Sales Tax Rate %	8.40%	Location Used for Tax Rate	Vancouver WA	
Contingency Rate	5%			
Base Month	June-18			
Project Administered By	DES			

Schedule				
Predesign Start	December-18	Predesign End	July-19	
Design Start	July-21	Design End	June-22	
Construction Start	December-24	Construction End	June-25	
Construction Duration	6 Months			

	Project C	ost Estimate	
Total Project	\$4,221,070	Total Project Escalated	\$5,112,020
		Rounded Escalated Total	\$5,112,000

STATE OF WASHINGTON

AGENCY / INSTITUTION PROJECT COST SUMMARY

Agency 353 - Center for Deaf and Hard of Hearing Youth
Project Name Academic & Physical Ed. Building - Phase-IV: Atheletic Field/Site
OFM Project Number 30000036

Cost Estimate Summary

	Acc	uisition	
Acquisition Subtotal	\$0	Acquisition Subtotal Escalated	\$0
	Consult	ant Services	
Predesign Services	\$0	ant services	
A/E Basic Design Services	\$283,500		
Extra Services	\$180,000		
Other Services	\$127,370		
Design Services Contingency Consultant Services Subtotal	\$29,544 \$620,414	Consultant Services Subtotal Escalated	\$709,918
Consultant Services Subtotal	\$620,414	Consultant Services Subtotal Escalated	\$709,918
	Con	struction	
GC/CM Risk Contingency	\$142,500		
GC/CM or D/B Costs	\$89,775		
Construction Contingencies	\$142,500	Construction Contingencies Escalated	\$175,375
Maximum Allowable Construction		Maximum Allowable Construction Cost	
Cost (MACC)	\$2,850,000	(MACC) Escalated	\$3,480,705
Sales Tax	\$270,881	Sales Tax Escalated	\$331,124
Construction Subtotal	\$3,495,656	Construction Subtotal Escalated	\$4,273,066
	_		
		uipment	
Equipment	\$0		
Sales Tax	\$0		
Non-Taxable Items	\$0	_	
Equipment Subtotal	\$0	Equipment Subtotal Escalated	\$0
		rtwork	**
Artwork Subtotal	\$0	Artwork Subtotal Escalated	\$0
	Agency Proie	ct Administration	
Agency Project Administration			
Subtotal	\$0		
DES Additional Services Subtotal	\$25,000		
Other Project Admin Costs	\$0		
Project Administration Subtotal	\$85,000	Project Administation Subtotal Escalated	\$104,610
	L		
	Oth	er Costs	
Other Costs Subtotal	\$20,000	Other Costs Subtotal Escalated	\$24,426

	Project C	ost Estimate	
Total Project	\$4,221,070	Total Project Escalated	\$5,112,020
		Rounded Escalated Total	\$5,112,000
	CDHY Academic Phy	ysical Education Building	

Phase-IV: Site Improvements Cost Summary

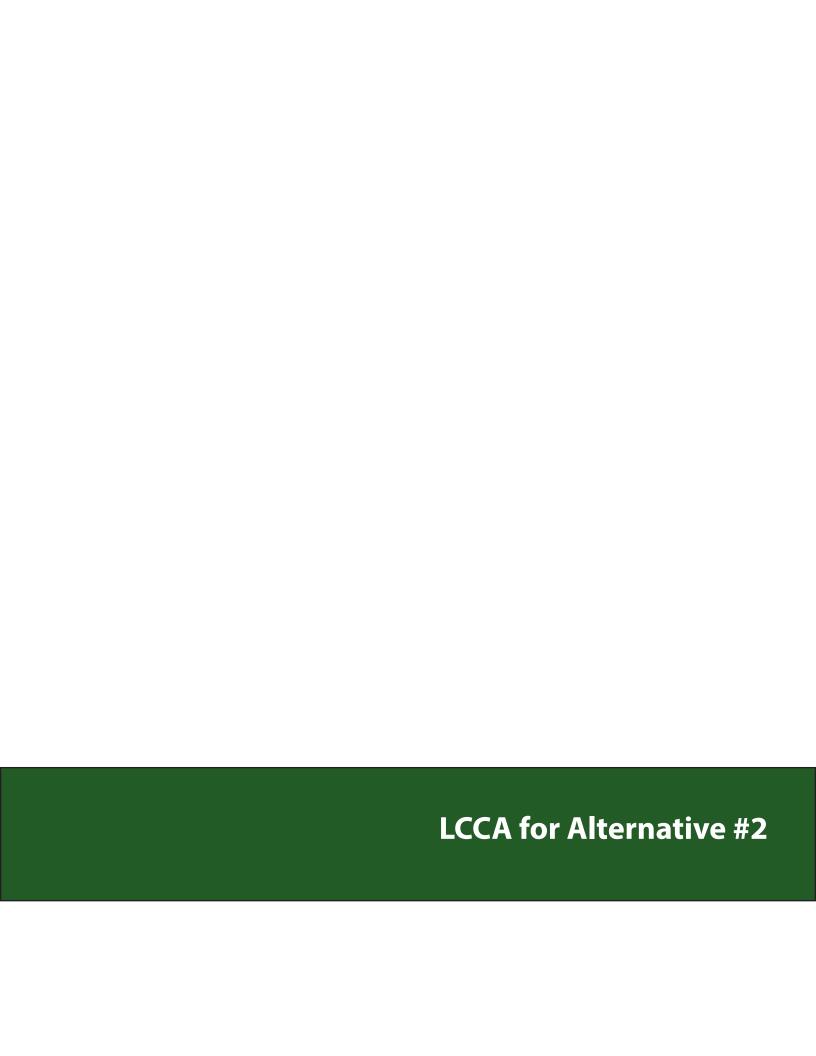
	Consult	tant Services		
Item	Base Amount	Escalation Factor	Escalated Cost	Notes
1) Pre-Schematic Design Services				
Programming/Site Analysis				
Environmental Analysis				
Predesign Study				
Other	\$0			
Insert Row Here				
Sub TOTAL	\$0	1.0994	\$0	Escalated to Design Start
2) Construction Documents				
A/E Basic Design Services	\$283,500			69% of A/E Basic Services
Adjust for D-B	7203,300			05% Of Ay L basic Services
Insert Row Here				
Sub TOTAL	\$283,500	1.1150	\$316.104	Escalated to Mid-Design
	Ψ=00,000		4010,10 1	2000,000 00 11110 2 001811
3) Extra Services				
Civil Design (Above Basic Svcs)	\$60,000			
Geotechnical Investigation	\$0			
Commissioning	\$0			
Site Survey	\$0			
Testing	\$60,000			
LEED Services	\$0			
Voice/Data Consultant	\$0			
Value Engineering				
Constructability Review				
Environmental Mitigation (EIS)	\$0			
Landscape Consultant	\$60,000			
Other				
Insert Row Here				
Sub TOTAL	\$180,000	1.1150	\$200,700	Escalated to Mid-Design
4) Other Services				
Bid/Construction/Closeout	\$127,370			31% of A/E Basic Services
HVAC Balancing	\$127,370			31/6 Of A/L basic 3et vices
Staffing				
Starring				
Insert Row Here				
Sub TOTAL	\$127,370	1.2307	\$1EG 7EA	Escalated to Mid-Const.
Sub TOTAL	3127,37U	1.2307	Ş130,734	Listalated to Mild-Collst.
5) Design Services Contingency				
Design Services Contingency	\$29,544			
Other				
Insert Row Here				
Sub TOTAL	\$29,544	1.2307	\$36,360	Escalated to Mid-Const.
CONSULTANT SERVICES TOTAL	\$620,414		\$709,918	

	Construc	tion Contracts		
Item	Base Amount	Escalation Factor	Escalated Cost	Notes
1) Site Work				
G10 - Site Preparation	\$200,000			
G20 - Site Improvements	\$1,950,000			
G30 - Site Mechanical Utilities	\$100,000			
G40 - Site Electrical Utilities	\$250,000			
G60 - Other Site Construction			-	
Site General Conditions	\$300,000			
Insert Row Here		·		
Sub TOTAL	\$2,800,000	1.2213	\$3,419,640	
2) Related Project Costs				
Offsite Improvements	\$0			
City Utilities Relocation	ΨO			
Parking Mitigation				
Stormwater Retention/Detention				
Temporary Construction and Phasing	\$50,000			
Design Engineering				
Design Engineering				
Sub TOTAL	\$50,000	1.2213	\$61,065	
346 131712	450,000		401,000	
3) Facility Construction				
A10 - Foundations	\$0			
A20 - Basement Construction	\$0			
B10 - Superstructure	\$0			
B20 - Exterior Closure	\$0			
B30 - Roofing	\$0			
C10 - Interior Construction	\$0			
C20 - Stairs	\$0			
C30 - Interior Finishes	\$0			
D10 - Conveying	\$0			
D20 - Plumbing Systems	\$0			
D30 - HVAC Systems	\$0			
D40 - Fire Protection Systems	\$0			
D50 - Electrical Systems	\$0			
F10 - Special Construction	\$0			
F20 - Selective Demolition	\$0			
General Conditions	\$0			
Contractor OH&P	\$0			
Insert Row Here				
Sub TOTAL	\$0	1.2307	\$0	
	nst			
4) Maximum Allowable Construction Co	\$2,850,000		\$3,480,705	

Ć4.42.500			
\$142,500		Í	
¢142 F00	1 2207	¢17F 27F	
\$142,500	1.2307	\$1/5,3/5	
\$89,775			
\$89,775	1.2307	\$110,487	
\$142,500		-	
\$142,500	1.2307	\$175,375	
		Ī	
\$0	1.2307	\$0	
	ı		
\$270,881		\$331,124	
\$3,495,656		\$4,273,066	
	\$142,500 \$142,500 \$0 \$270,881	\$142,500 1.2307 \$89,775 \$89,775 1.2307 \$142,500 \$142,500 1.2307 \$0 1.2307	\$142,500

	Projec	t M	anagement		
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Agency Project Management	\$0				
Additional Services	\$25,000				
Site Observer	\$60,000				
Insert Row Here			_		
PROJECT MANAGEMENT TOTAL	\$85,000		1.2307	\$104,610	

	Ot	ther Costs		
ltem	Base Amount	Escalation	Escalated Cost	Notes
		Factor		
Mitigation Costs				
Hazardous Material				
Remediation/Removal				
Historic and Archeological Mitigation				
Permits	\$20,000			
OTHER COSTS TOTAL	\$20,000	1.2213	\$24,426	



Lease Option 1 Information Sheet

*

= Calculated value.	
Yellow Cell	
= Value can be entered by user.	
Green Cell	
a user input	

Lease approximately 66,000-gsf with 44,000-suitable for use as classroom and adsministrative space for elementary & secondary school and approx. 22,000-sf as a gymnasium and physical education facility for K-12 school New Lease Option 1 Description

	New Lease Intormation			
*	Lease Location	Vancouver	Vancouver Market Area:	Clark County
*	Lease Square Feet Type	Gross		
*	New Facility Square Feet	000'99		
*	New Lease Start Date	7/1/2022		
	SE ner Person Calculated			

New Lease Costs	Years of Term	Rate / SF / Year	Rate / Month	Adjusted to FS	Rate / SF / Year Rate / Month Adjusted to FS Total FS Rate / Estimated FSG Estimated FSG	Estimated FSG	Estimated FSG	Real Estate
				Rate	Month	Market Rate	Rate / Month	Transaction
								Fees for Term
Years 1 - 5	2	\$ 25.00 \$	\$ 137,500 \$	\$ 45.60 \$	\$ 250,800 \$	\$ 40.32 \$	\$ 221,733 \$	\$ 206,250
Years 6 - 15	10	\$ 30.00 \$	\$ 165,000 \$	\$ 20.60	\$ 278,300	\$ 47.01	\$ 258,550 \$	\$ 247,500
Years 16 - 30	15	\$ 35.00 \$	\$ 192,500 \$	\$ 22.60	\$ 305,800 \$	\$ 63.92	\$ 351,539 \$	\$ 433,125
Years								
Years								
Total Length of Lease	30							\$ 886,875
Transaction Fee for first 5 Years	2.50%	2.50% of total rent for fi	rent for first 5 years of term				•	
Transaction Fee for Additional Years	1.25%	1.25% of total rent for te	rent for term beyond 5 years	S				
Note: Dan sature and an included on board and board and board and an added and and and and and and and and and	مرميدا وميما مراد	cton common Hill to	Loppe Sailer losi	14:11:4 P 000 000; mo	9			

Note: Real estate transaction fees calculated on base lease - not full service rate including added services and utilities.

Added	New Lease Operating Costs (Starting in current year)	Known Cost / SF / Year	Known Cost / SF Estimated Cost / Total Cost / / Year in Year 2022 - Gross	Total Cost / Year	Cost / Month	Escalated to lease start date
	Energy (Electricity, Natural Gas)	\$ 2.50	\$0.00	\$ 165,000 \$	\$ 13,750	
	Janitorial Services	\$ 1.80	00.0\$	\$ 118,800	006'6 \$	
	Utilities (Water, Sewer, & Garbage)	\$ 2.00	00.0\$	\$ 132,000	\$ 11,000	
	Grounds	\$ 0.75	\$ 00.0\$	\$ 49,500	\$ 4,125	

Pest Control	\$ 0.15	\$0.00	\$	006′6	\$ 825
Security	\$ 0.40	\$0.00	\$	26,400	\$ 2,200
Maintenance and Repair	\$ 2.00	\$0.00	\$ 132,000	000	\$ 11,000
Management	\$ 0.70	\$0.00	\$	46,200	\$ 3,850
Road Clearance	- \$	\$0.00	\$		- \$
Telecom	\$ 2.30	\$0.00	\$ 151,800	300	\$ 12,650
Additional Parking	\$ 8.00	- \$	\$ 528,000	000	\$ 44,000
Other	- \$	- \$	\$		- \$
Total Operating Costs	\$ 20.60	- \$	\$ 1,359,600	000	\$ 113,300

New Lease One Time Costs	Current	Calculated	
	Estimate	(for reference)	
Real Estate Transaction Fees	\$ 1,402,151	\$ 886,875	Per Std %
Tenant Improvements	\$ 17,160,000	000'066 \$	\$260 per SF
IT Infrastructure	000'066 \$	- \$	
Furniture Costs	\$ 1,540,000	- \$	
Building Security and Access Systems	\$ 198,000		
Moving Vendor and Supplies	\$ 85,000	- \$	
Other / Incentive			
Total	\$ 21,375,151	\$ 21,375,151 \$ 1,876,875	

Biennium Budget Impacts for New Lease	Biennium T	Biennium Time Period	Existing Lease	New Lease	Biennium
	Start	Finish	Option	Option 1	Impact:
19-21 Biennium Lease Expenditure	7/1/2019	6/30/2021	- \$	- \$	- \$
21-23 Biennium Lease Expenditure	7/1/2021	6/30/2023	- \$	\$ 24,384,751	\$ 24,384,751
23-25 Biennium Lease Expenditure	7/1/2023	9/30/2052	- \$	\$ 6,019,200	\$ 6,019,200
25-27 Biennium Lease Expenditure	7/1/2025	200/08/9	- \$	\$ 6,019,200	\$ 6,019,200
27-29 Biennium Lease Expenditure	7/1/2027	6/30/2059	- \$	\$ 002'629'9 \$	\$ 6,679,200

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Project Description

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Yellow Cell = Value can be entered by user. Green Cell Requires a user input *

= Calculated value.

New Academic and Physical Education Building for Washington State School for the Deaf constructed in 2 Phases. Phase-I includes demo of 4 vacant building and modifying utilities. Phase-II is a 60,000-gsf new building, demolition of 2 buildings and site work using Design-Build

Construction Construction or Purchase/Remodel

Market Area = Clark County Vancouver **Project Location**

\$724.06 \$620.96 \$816.41 000'09 43,500 3.00 Estimated Total Project Costs per Sq Ft Escalated MACC Cost per Sq Ft Escalated Total Project Costs per Sq Ft **Estimated Acres Needed** MACC Cost per Sq Ft Space Efficiency Usable Sq Ft **Gross Sq Ft** Statistics

5/1/2024 Start Date Lease Rate- Full Serviced (\$/SF/Year) Square Feet (holdover/temp lease) One Time Costs (if double move) Interim Lease Information Length of Lease (in months) Lease Start Date Move In Date *

	Construction Cost Estimates (See Capital Budget System For Detail)	Syste	m For Detail)				
		Kn	Known Costs	Estimated Costs	Costs	Cost to Use	e.
	Acquisition Costs Total	\$	1	\$ 75	750,000	\$	1
	Consultant Services						
	A & E Fee Percentage (if services not specified)			6.3	6.32% Std	9	6.32%
	Pre-Schematic Design services	Ş	180,000				
3 %	Construction Documents	\$	318,937				
3 A	Extra Services	\$	460,000				
	Other Services	\$	583,290				
	Design Services Contingency	\$	110,223				
	Consultant Services Total	\$	1,652,450 \$		2,386,145 \$	\$ 1,652,450	,450
	Construction Contracts						
Э:	Site Work	\$	7,880,702				

DAM

Related Project Costs	\$ 1,094,591			
Facility Construction	\$ 28,282,078			
MACC SubTotal	\$ 37,257,371	\$ 18,000,000	\$ 37	37,257,371
Construction Contingency (5% default)	\$ 3,849,828	\$ 1,862,869	\$	3,849,828
Non Taxable Items			\$	1
Sales Tax	\$ 3,557,241	\$ 3,129,619	\$ 3	3,557,241
Construction Additional Items Total	\$ 7,407,069	\$ 4,992,488	<u> </u>	7,407,069
Equipment				
Equipment	\$ 1,837,814			
Non Taxable Items				
Sales Tax	\$ 142,414			
Equipment Total	\$ 1,980,228		\$ 1	1,980,228
Art Work Total	\$ 202,696	\$ 186,287	\$	202,696
Other Costs				
Permits	\$ 150,000			
Other Costs Total	\$ 150,000		\$	150,000
Project Management Total	\$ 335,000		\$	335,000
Grand Total Project Cost	\$ 48,984,815	\$ 26,314,919 \$		48,984,815

Construction One Time Project Costs		
One Time Costs	Estimate	Calculated
Aoving Vendor and Supplies	\$ 85,000	- \$
Other (not covered in construction)		
otal	\$ 85,000	\$ 85,000

	Ongoing Building Costs				
papp	New Building Operating Costs	Known Cost /GSF/	Estimated Cost	Total	Cost / Month
rvices		2024	/GSF/ 2024	Cost / Year	
2	Energy (Electricity. Natural Gas)	\$ 2.50	\$ 1.35	\$ 150,000	\$ 12,500
2	Janitorial Services	\$ 1.80	\$ 1.66	\$ 108,000	000'6 \$
2	Utilities (Water, Sewer, & Garbage)	\$ 2.00	\$ 1.26	\$ 120,000	\$ 10,000
	Grounds	\$ 0.75	\$ 0.07	\$ 45,000	\$ 3,750
	Pest Control	\$ 0.15	\$ 0.12	000'6 \$	\$ 750
-	Security	\$ 0.40	\$ 0.10	\$ 24,000	\$ 2,000
2	Maintenance and Repair	\$ 2.00	\$ 6.70	\$ 120,000	\$ 10,000
	Management	\$ 0.70	\$ 0.62	\$ 42,000	\$ 3,500
2	Road Clearance	- \$	\$ 0.07	\$ 4,464	\$ 372
2	Telecom	\$ 2.30	- \$	\$ 138,000	\$ 11,500
	Additional Parking	- \$	- \$	- \$	- \$
_	Other	- \$	- \$	- \$	- \$
	Total Operating Costs	\$ 12.60	\$ 11.97	\$ 760,464	\$ 63,372

	Ongoing Building Costs				
p	New Building Operating Costs	Known Cost /GSF/	Estimated Cost	Total	Cost / Month
ses		2024	/GSF/ 2024	Cost / Year	
	Energy (Electricity. Natural Gas)	\$ 2.50	\$ 1.35	\$ 150,000	\$ 12,500
	Janitorial Services	\$ 1.80	\$ 1.66	\$ 108,000	000'6 \$
	Utilities (Water, Sewer, & Garbage)	\$ 2.00	\$ 1.26	\$ 120,000	\$ 10,000
	Grounds	\$ 0.75	\$ 0.07	\$ 45,000	\$ 3,750
	Pest Control	\$ 0.15	\$ 0.12	000'6 \$	\$ 750
	Security	\$ 0.40	\$ 0.10	\$ 24,000	\$ 2,000
	Maintenance and Repair	\$ 2.00	\$ 6.70	\$ 120,000	\$ 10,000
	Management	\$ 0.70	\$ 0.62	\$ 42,000	\$ 3,500
	Road Clearance	- \$	\$ 0.07	\$ 4,464	\$ 372
	Telecom	\$ 2.30	- \$	\$ 138,000	\$ 11,500
	Additional Parking	- \$	- \$	- \$	- \$
	Other	- \$	- \$	- \$	- \$
	Total Operating Costs	\$ 12.60	\$ 11.97	\$ 760,464	\$ 63,372

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Ownership Option

Yellow Cell = Value can be entered by user. Green Cell Requires a user input *

= Calculated value.

Phases. Phase-I includes demo of 4 vacant building and modifying utilities (D-Brenovation of existing Divine/Hunter. Phase-IV is site work. Phases II - IV using B). Phase-II is a 30,000-gsf addition to Divine/Hunter Gym and Phase-III is Alternate-3: New Academic and Physical Education Building for WSSD in 4 **Project Description**

*

Construction Construction or Purchase/Remodel

Market Area = Clark County Vancouver **Project Location**

\$632.74 \$526.22 \$784.46 %29 000′99 44,000 3.00 Estimated Total Project Costs per Sq Ft Escalated MACC Cost per Sq Ft Escalated Total Project Costs per Sq Ft **Estimated Acres Needed** MACC Cost per Sq Ft Space Efficiency Usable Sq Ft **Gross Sq Ft** Statistics

8/1/2025 Start Date Lease Rate- Full Serviced (\$/SF/Year) Square Feet (holdover/temp lease) Interim Lease Information Length of Lease (in months) Lease Start Date Move In Date

*

One Time Costs (if double move)

	Construction Cost Estimates (See Capital Budget System For Detail)	Syste	m For Detail)				
		Kn	Known Costs	Estimated Costs	Costs	Cost to Use	Use
	Acquisition Costs Total	\$	1	\$ 75	750,000	\$	1
	Consultant Services						
	A & E Fee Percentage (if services not specified)			.9	6.4% Std		6.40%
	Pre-Schematic Design services	\$	385,000				
3 Y	Construction Documents	\$	2,706,989				
8 A	Extra Services	\$	1,156,000				
	Other Services	\$	1,576,114				
	Design Services Contingency	\$	309,320				
	Consultant Services Total	\$	6,133,423 \$		2,224,306 \$		6,133,423
	Construction Contracts						
D :	Site Work	\$	6,791,525				
					1		

Constituction Cost Estimates (See Capital Budget System For Detail)	. System roi Detail,		
	Known Costs	Estimated Costs	Cost to Use
Acquisition Costs Total	\$ 1	\$ 750,000	\$ 1
Consultant Services			
A & E Fee Percentage (if services not specified)		6.4% Std	6.40%
Pre-Schematic Design services	\$ 385,000		
Construction Documents	\$ 2,706,989		
Extra Services	\$ 1,156,000		
Other Services	\$ 1,576,114		
Design Services Contingency	\$ 309,320		
Consultant Services Total	\$ 6,133,423 \$	\$ 2,224,306	\$ 6,133,423
Construction Contracts			
Site Work	\$ 6,791,525		

DAM

Related Project Costs	\$	350,000				
Facility Construction	\$	27,588,894				
MACC SubTotal	\$	34,730,419	\$	19,800,000	\$	34,730,419
Construction Contingency (5% default)	\$	1,910,736	\$	1,910,736	Ş	1,910,736
Non Taxable Items					\$	1
Sales Tax	Ş	3,316,968	\$	2,917,355	ş	3,316,968
Construction Additional Items Total	\$	5,227,704	\$	5,227,704	\$	5,227,704
Equipment						
Equipment	\$	2,292,000				
Non Taxable Items	\$	1				
Sales Tax	\$	192,528				
Equipment Total	\$	2,484,528			\$	2,484,528
Art Work Total	\$	166,558	ş	173,652	φ.	166,558
Other Costs						
CGCM Risk Contingency	\$	1,262,306				
GCCM Fee	\$	984,253				
Permits	\$	220,000				
Other Costs Total	\$	2,466,559			\$	2,466,559
Project Management Total	\$	565,000	Ш		\$	565,000
Grand Total Project Cost			ş	28,175,663 \$	ş	51,774,192
		•				

onstruction One Time Project Costs		
One Time Costs	Estimate	Calculated
loving Vendor and Supplies	\$ 85,000	- \$
ther (not covered in construction)		
	000'58 \$	\$ 85,000

	Ongoing Building Costs				
Added	New Building Operating Costs	Known Cost /GSF/	Estimated Cost	Total	Cost / Month
ervices		2025	/GSF/ 2025	Cost / Year	
>	Energy (Electricity. Natural Gas)	\$ 2.50	\$ 1.39	\$ 165,000	\$ 13,750
>	Janitorial Services	\$ 1.80	\$ 1.71	\$ 118,800	006'6 \$
>	Utilities (Water, Sewer, & Garbage)	\$ 2.00	\$ 1.30	\$ 132,000	\$ 11,000
^	Grounds	\$ 0.75	\$ 0.08	\$ 49,500	\$ 4,125
^	Pest Control	\$ 0.15	\$ 0.13	006′6 \$	\$ 825
>	Security	\$ 0.40	\$ 0.10	\$ 26,400	\$ 2,200
>	Maintenance and Repair	\$ 2.00	06'9 \$	\$ 132,000	\$ 11,000
•	Management	\$ 0.70	\$ 0.64	\$ 46,200	\$ 3,850
>	Road Clearance	- \$	\$ 0.08	\$ 5,063	\$ 422
7	Telecom	\$ 2.30	- \$	\$ 151,800	\$ 12,650
	Additional Parking	- \$	- \$	- \$	- \$
	Other	- \$	- \$	- \$	- \$
	Total Operating Costs	\$ 12.60	\$ 12.34	\$ 836,663	\$ 69,722

	Ongoing Building Costs				
р	New Building Operating Costs	Known Cost /GSF/	Estimated Cost	Total	Cost / Month
es		2025	/GSF/ 2025	Cost / Year	
	Energy (Electricity. Natural Gas)	\$ 2.50	\$ 1.39	\$ 165,000	\$ 13,750
	Janitorial Services	\$ 1.80	\$ 1.71	\$ 118,800	\$ \$000
	Utilities (Water, Sewer, & Garbage)	\$ 2.00	\$ 1.30	\$ 132,000	\$ 11,000
	Grounds	\$ 0.75	\$ 0.08	\$ 49,500	\$ 4,125
	Pest Control	\$ 0.15	\$ 0.13	006'6 \$	\$ 825
	Security	\$ 0.40	\$ 0.10	\$ 26,400	\$ 2,200
	Maintenance and Repair	\$ 2.00	\$ 6.90	\$ 132,000	\$ 11,000
	Management	\$ 0.70	\$ 0.64	\$ 46,200	\$ 3,850
	Road Clearance	- \$	\$ 0.08	\$ 5,063	\$ 422
	Telecom	\$ 2.30	- \$	\$ 151,800	\$ 12,650
	Additional Parking	- \$	- \$	- \$	- \$
_	Other	- \$	- \$	- \$	\$ -
	Total Operating Costs	\$ 12.60	\$ 12.34	\$ 836,663	\$ 69,722

Life Cycle Cost Analysis - Project Summary

Agency	
Project Title	
Existing Description	
Lease Option 1 Description	Lease approximately 66,000-gsf with 44,000-suitable for use as classroom and adsministrative space for elementary & secondary school and approx. 22,000-sf as a gymnasium and physical education facility for K-12
Lease Option 2 Description	
Ownership Option 1 Description	New Academic and Physical Education Building for Washington State School for the Deaf constructed in 2 Phases. Assert includes demo of 4 vacant building and modifying utilities. Phase-II is a 60,000-gsf new building, demolition of 45 handlaces and a factorizations having a building.
Ownership Option 2 Description	Alternate-3: New Academic and Physical Education Building for WSSD in 4 Phases. Phase-I includes demo of 4 vacant building and modifying utilities (D-B-B). Phase-II is a 30,000-gsf addition to Divine/Hunter Gym and Phase-
Ownership Option 3 Description	

Lease Options information Existing lease Lease Option 1 Lease Option 2 Total Remaible Square Feet 66,000 66,000 5 Annual Lease Cost (Initial Term of Lease) \$ 1,650,000 5 Full Service Cost/SF (Initial Term of Lease) \$ 25,00 5 Cocupano Relication n/a 7/1,2022 Project Initial Costs n/a 5 21,375,151 Project Initial Exercise n/a 5 21,375,151 5 RSF/Person Calculated n/a 5 21,375,151 5

Ownership Information	OWI	ership 1	Ownership 1 Ownership 2 Ownership 3	Ownership 3
Total Gross Square Feet		60,000	66,000	-
Total Rentable Square Feet		43,500	44,000	-
Occupancy Date		5/1/2024	8/1/2025	
Initial Project Costs	\$	85,000 \$	\$ 85,000	- \$
Est Construction TPC (\$/GSF)	ş	952	\$ 943	- \$
RSF/Person Calculated				

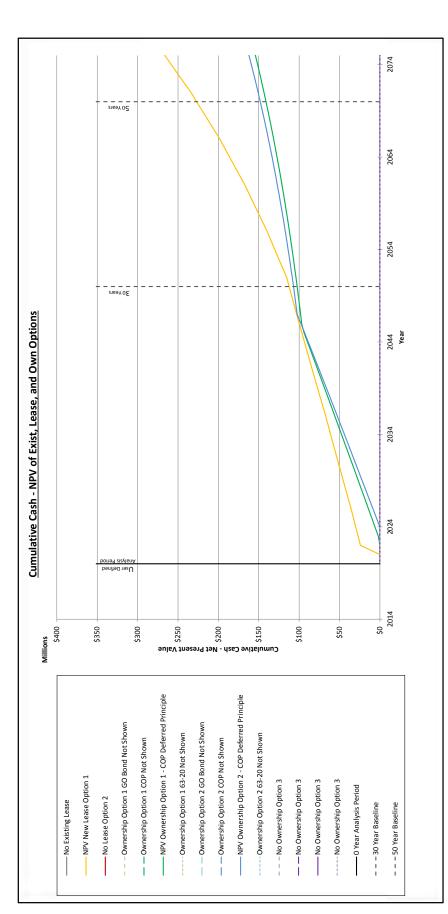
Financial Analysis of Options

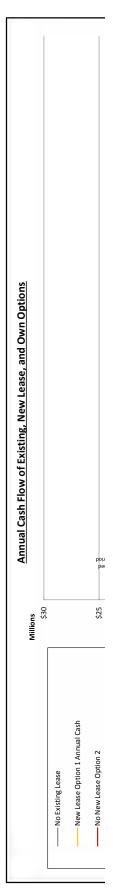
	Display Option?	7 Yes	Yes	Yes	No	No	Yes	No	ON	No	Yes	No	No	No	Yes	No
_	Financial Comparisons	Existing Lease	Lease 1	Lease 2		Ownership 1				Ownership 2				Ownership 3		
Years	Years Financing Means	Current	Current	Current	GO Bond	COP	COP Deferred *	63-20	GO Bond	COP	COP Deferred	63-20	GO Bond	COP	COP Deferred	63-20
)	0 Year Cumulative Cash	\$	- \$	- \$			- \$				- \$				- \$	
0	0 Year Net Present Value	\$	- \$	- \$			- \$				- \$				- \$	
1	Lowest Cost Option (Analysis Period)															

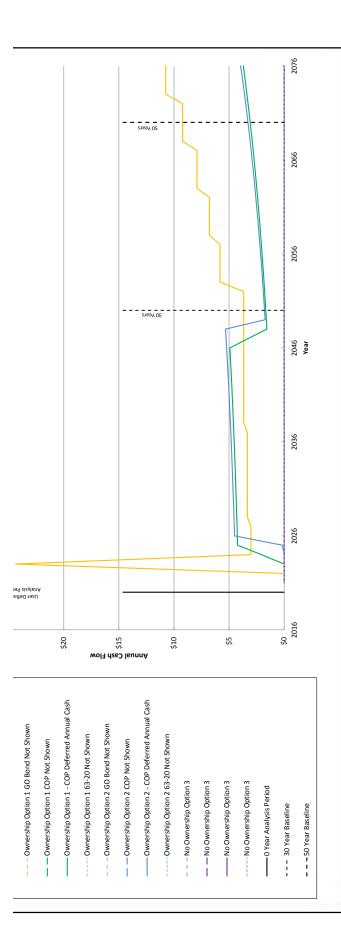
_	Financial Comparisons	Existing Lease	Lease 1	Lease 2		Ownership 1				Ownership 2				Ownership 3		
Years Fi	Financing Means	Current	Current	Current	GO Bond	COP	COP Deferred *	63-20	GO Bond	COP	COP Deferred	63-20	GO Bond	COP	COP Deferred	63-20
***	30 Year Cumulative Cash	- \$	\$ 117,523,951	- \$			\$ 109,984,517				\$ 115,522,201				- \$	
30	30 Year Net Present Value	- \$	\$ 109,302,986	- \$			\$ 101,030,238				\$ 105,436,679				- \$	
-	Lowest Cost Option (30 Years)		3				1				2					

	Financial Comparisons	Existing Lease	Lease 1	Lease 2		Ownership 1				Ownership 2				Ownership 3		
Years	Financing Means	Current	Current	Current	GO Bond	COP	COP Deferred *	63-20	GO Bond	COP	COP Deferred	63-20	GO Bond	COP	COP Deferred	63-20
	50 Year Cumulative Cash	- \$	\$ 255,094,177	- \$			\$ 156,682,503				\$ 165,344,924				- \$	
20	50 Year Net Present Value	- \$	\$ 219,850,244	- \$			\$ 138,599,614				\$ 145,519,961				- \$	
	Lowest Cost Option (50 Years)		3				1				2					

^{* -} Defers payment on principle for 2 years while the building is being constructed. See instructions on Capitalized Interest.







Financial Assumptions

Date of Life Cycle Cost Analysis:	
Analysis Period Start Date	7/1/2020
User Input Years of Analysis	0

All assumptions subject to change to reflect updated costs and conditions.

		Lease Options		0	Ownership Option 1		0	Winership Option	2	0	Ownership Option 3	
	Existing Lease	Lease Option 1	Lease Option 2	GO Bond	COP	63-20	GO Bond	COP	63-20	GO Bond	GOP	63-20
Inflation / Interest Rate	3.120%	3.120%	3.120%	3.540%	3.670%	3.670%	3.540%	3.670%	3.670%	3.540%	3.720%	3.720%
Discount Rate	0.533%	0.533%	0.533%	0.533%	0.533%	0.533%	0.533%	0.533%	0.533%	0.533%	0.533%	0.533%
Length of Financing	N/A	N/A	N/A	25	25	25	25	25	25	25	25	25

See Financial Assumptions tab for more detailed information

COP Deferred and 63-20 Financing defer the payment on principle until construction completion.

New Lease Assumptions
Real Estate Transaction fees are 2.5% of the lease for the first 5 years and 1.25% for each year thereafter in the initial term of the lease.
Tenant Improvements are estimated at \$260 per rentable square foot.

IT infrastructure is typically estimated at \$350 per person.

Furniture costs are typically estimated at \$500 per person and do not include new workstations.

Moving Vendor and Supplies are typically estimated at \$205 per person.

Default Ownership Options Assumptions

Assumes a 2 month lease to move-in overlap period for outfitting building and relocation.

Assumes surface parking.

The floor plate of the construction option office building is 25,000 gross square feet. The estimated total project cost for construction is \$420.00 per square foot.

See the Capital Construction Defaults tab for more construction assumptions.





Location Summary

GFA: Gross Floor Area Rates Current At June 2019

Location Cummary		Nates Current At June 20		
Location		GFA SF	Cost/SF	Total Cost
A BUILDING		60,000	423.15	25,389,015
B SITEWORK				
B1 ON-SITE WORK				8,190,205
B2 OFF-SITE WORK				691,732
	B - SITEWORK			\$8,881,937
	ESTIMATED NET COST	60,000	\$571.18	\$34,270,952
MARGINS & ADJUSTMENTS				
Escalation to 3Q2020	6.0 %			\$2,056,257
WA State/Clark Cty/Vancouver Sales Tax				Excl.
	ESTIMATED TOTAL COST	60,000	\$605.45	\$36,327,209



Location Summary

GFA: Gross Floor Area Rates Current At June 2019

Location		GFA SF	Cost/SF	Total Cost
A BUILDING B SITEWORK		60,000	305.86	18,351,760
B1 ON-SITE WORK				5 020 069
				5,920,068
B2 OFF-SITE WORK	D 0/75/4/00/4			500,000
	B - SITEWORK			\$6,420,068
	ESTIMATED NET COST	60,000	\$412.86	\$24,771,828
MARGINS & ADJUSTMENTS				
Phasing & Temporary Work	1.5 %			\$371,577
General Conditions	9.0 %			\$2,262,906
Bonds & Insurance	3.5 %			\$959,221
Overhead & Profit	3.0 %			\$850,966
Design Contingency	15.0 %			\$4,382,475
Market Volatility Contingency	2.0 %			\$671,979
Escalation to 3Q2020	6.0 %			\$2,056,257
WA State/Clark Cty/Vancouver Sales Tax				Excl.
	ESTIMATED TOTAL COST	60,000	\$605.45	\$36,327,209



Uniformat Level 2 Summary

Gross Floor Area: 60,000 SF Rates Current At June 2019

Desc	ription		Cost/SF	Total Cost
A10	Foundations		\$17.81	\$1,068,500
B10	Superstructure		\$37.92	\$2,275,263
B20	Exterior Enclosure		\$55.14	\$3,308,547
B30	Roofing		\$32.66	\$1,959,450
C10	Interior Construction		\$28.00	\$1,680,000
C20	Stairs		\$1.33	\$80,000
C30	Interior Finishes		\$22.25	\$1,335,000
D10	Conveying		\$1.67	\$100,000
D20	Plumbing		\$12.50	\$750,000
D30	HVAC		\$34.00	\$2,040,000
D40	Fire Protection		\$4.25	\$255,000
D50	Electrical		\$40.50	\$2,430,000
E10	Equipment		\$4.08	\$245,000
E20	Furnishings		\$7.50	\$450,000
F20	Selective Building Demolition		\$35.81	\$2,148,775
G10	Site Preparations		\$19.01	\$1,140,654
G20	Site Improvements		\$41.18	\$2,470,639
G30	Site Civil/Mechanical Utilities		\$8.50	\$510,000
G40	Site Electrical Utilities		\$8.75	\$525,000
		ESTIMATED NET COST	\$412.86	\$24,771,828
MAR	GINS & ADJUSTMENTS			
Phas	ing & Temporary Work	1.5 %		\$371,577
Gene	eral Conditions	9.0 %		\$2,262,906
Bond	s & Insurance	3.5 %		\$959,221
Over	head & Profit	3.0 %		\$850,966
Desig	gn Contingency	15.0 %		\$4,382,475
Mark	et Volatility Contingency	2.0 %		\$671,979
Esca	lation to 3Q2020	6.0 %		\$2,056,257
WA S	State/Clark Cty/Vancouver Sales Tax			Excl.
		ESTIMATED TOTAL COST	\$605.45	\$36,327,209



Uniformat Level 3 Summary

Gross Floor Area: 60,000 SF Rates Current At June 2019

Descrip	tion	Cost/SF	Total Cost
A1010	Standard Foundations	\$9.83	\$590,000
A1030	Slab on Grade	\$7.98	\$478,500
B1010	Floor Construction	\$12.65	\$759,000
B1020	Roof Construction	\$25.27	\$1,516,263
B2010	Exterior Walls	\$41.56	\$2,493,872
B2020	Exterior Windows	\$11.83	\$709,675
B2030	Exterior Doors	\$1.75	\$105,000
B3010	Roof Coverings	\$32.66	\$1,959,450
C1010	Partitions	\$14.75	\$885,000
C1020	Interior Doors	\$6.25	\$375,000
C1030	Specialties	\$7.00	\$420,000
C2010	Stair Construction	\$1.33	\$80,000
C3010	Wall Finishes	\$6.50	\$390,000
C3020	Floor Finishes	\$9.09	\$545,500
C3030	Ceiling Finishes	\$6.66	\$399,500
D1010	Elevators and Lifts	\$1.67	\$100,000
D2010	Plumbing Fixtures	\$12.50	\$750,000
D3090	Other HVAC Systems and Equipment	\$34.00	\$2,040,000
D4040	Sprinklers	\$4.25	\$255,000
D5010	Electrical Service & Distribution	\$10.50	\$630,000
D5020	Lighting & Branch Wiring	\$19.00	\$1,140,000
D5030	Communications & Security	\$11.00	\$660,000
E1090	Other Equipment	\$4.08	\$245,000
E2010	Fixed Furnishings	\$7.50	\$450,000
F2010	Building Elements Demolition	\$35.81	\$2,148,775
G1020	Site Demolition & Relocations	\$6.71	\$402,570
G1030	Site Earthwork	\$12.30	\$738,084
G2010	Roadways	\$8.33	\$500,000
G2020	Parking Lots	\$9.77	\$586,070
G2030	Pedestrian Paving	\$2.27	\$136,472
G2040	Site Development	\$10.00	\$600,000
G2050	Landcaping	\$10.80	\$648,097
G3010	Water Supply	\$3.33	\$200,000
G3020	Sanitary Sewer	\$1.00	\$60,000
G3030	Storm Sewer	\$4.17	\$250,000
G4010	Electrical Distribution		Excl.
G4020	Site Lighting	\$7.50	\$450,000



Uniformat Level 3 Summary

Gross Floor Area: 60,000 SF Rates Current At June 2019

Description		Cost/SF	Total Cost
G4030 Site Communication and Security		\$1.25	\$75,000
	ESTIMATED NET COST	\$412.86	\$24,771,828
MARGINS & ADJUSTMENTS			
Phasing & Temporary Work	1.5 %		\$371,577
General Conditions	9.0 %		\$2,262,906
Bonds & Insurance	3.5 %		\$959,221
Overhead & Profit	3.0 %		\$850,966
Design Contingency	15.0 %		\$4,382,475
Market Volatility Contingency	2.0 %		\$671,979
Escalation to 3Q2020	6.0 %		\$2,056,257
WA State/Clark Cty/Vancouver Sales Tax			Excl.
	ESTIMATED TOTAL COST	\$605.45	\$36,327,209



Concept Rev2

Location Uniformat Level 2/Uniformat Level 3 Item

A BUILDING

GFA: 60,000 SF Cost/SF: \$305.86 Rates Current At June 2019

Descr	ription	Unit	Qty	Rate	Total
A10	Foundations				
	010 Standard Foundations				
7	Elevator pit - complete incl. waterproofing	Item			20,000
6	Standard foundations	SF	60,000	9.50	570,000
	Standard Foundations		,	\$9.83/SF	\$590,000
A1	030 Slab on Grade			4 0100, 01	4000,000
8	Slab on grade, incl. base course and vapor barrier	SF	43,500	11.00	478,500
	Slab on Grade		•	\$7.98/SF	\$478,500
	Foundations			\$17.81/SF	\$1,068,500
B10	Superstructure			•	. , ,
B1	010 Floor Construction				
10	Concrete topping slab over metal deck	SF	16,500	13.00	214,500
9	Structural steel floor framing (assumes 12 psf + 10% allowance for misc. metals and connections)	Т	108.90	5,000.00	544,500
	Floor Construction			\$12.65/SF	\$759,000
B1	020 Roof Construction				
63	Exterior metal canopy	SF	720	60.00	43,200
12	Metal roof deck	SF	45,675	7.50	342,563
11	Structural steel roof framing (assumes 9 psf + 10% allowance for misc. metals and connections)	Т	226.10	5,000.00	1,130,500
	Roof Construction			\$25.27/SF	\$1,516,263
	Superstructure			\$37.92/SF	\$2,275,263
B20	Exterior Enclosure				
B2	010 Exterior Walls				
13	Exterior wall assembly; brick veneer, weather-resistive barrier, rigid insulation, sheathing, flashings, metal stud framing, secondary support steel, vapor barrier, batt insulation, and finished gyp board to the inside face of exterior wall	SF	31,257	72.00	2,250,504
51	Sun control louvers, incl. structural support	SF	2,570	50.00	128,500
45	Work at interface between (N) and (E) building	SF	2,209	52.00	114,868
	Exterior Walls			\$41.56/SF	\$2,493,872
B2	020 Exterior Windows				
14	Curtainwall	SF	3,157	135.00	426,195
15	Exterior storefront windows	SF	2,984	95.00	283,480
	Exterior Windows			\$11.83/SF	\$709,675
B2	030 Exterior Doors				
16	Exterior doors	SF	60,000	1.75	105,000
	Exterior Doors			\$1.75/SF	\$105,000
	Exterior Enclosure			\$55.14/SF	\$3,308,547

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Concept Rev2

Location Uniformat Level 2/Uniformat Level 3 Item

A BUILDING (continued)

GFA: 60,000 SF Cost/SF: \$305.86 Rates Current At June 2019

Description	Unit	Qty	Rate	Total
B30 Roofing				
B3010 Roof Coverings				
17 Low-slope membrane roof system	SF	24,255	26.00	630,630
53 Skylights at Classrooms/Offices	SF	1,230	190.00	233,700
46 Skylights at Gym	SF	2,160	150.00	324,000
52 Standing seam metal roof system	SF	21,420	36.00	771,120
Roof Coverings			\$32.66/SF	\$1,959,450
Roofing			\$32.66/SF	\$1,959,450
C10 Interior Construction				
C1010 Partitions				
20 Allowance for rough carpentry	SF	60,000	0.75	45,000
19 Partitions, incl. CMU walls	SF	60,000	14.00	840,000
Partitions			\$14.75/SF	\$885,000
C1020 Interior Doors	05	00.000	2.25	075 000
21 Interior doors and glazing	SF	60,000	6.25	375,000
Interior Doors			\$6.25/SF	\$375,000
C1030 Specialties	SF	60,000	7.00	420,000
22 Specialties; Includes markerboards, tackboards, signage, corner/wall protection, fire extinguishers, etc.	SF	60,000	7.00	420,000
Specialties			\$7.00/SF	\$420,000
Interior Construction			\$28.00/SF	\$1,680,000
C20 Stairs				
C2010 Stair Construction				
24 Metal pan stair	EA	4	20,000.00	80,000
Stair Construction			\$1.33/SF	\$80,000
Stairs			\$1.33/SF	\$80,000
C30 Interior Finishes				
C3010 Wall Finishes				
25 Wall finishes	SF	60,000	6.50	390,000
Wall Finishes			\$6.50/SF	\$390,000
C3020 Floor Finishes	05	40.000	7.75	050 500
26 Floor finishes	SF	46,000	7.75	356,500
41 Wood athletic flooring Floor Finishes	SF	14,000	13.50	189,000
C3030 Ceiling Finishes			\$9.09/SF	\$545,500
27 Ceiling finishes	SF	46,000	8.00	368,000
27 Ociling Illianca	S٢	40,000	0.00	300,000



Concept Rev2

Location Uniformat Level 2/Uniformat Level 3 Item

A BUILDING (continued)

Description	Unit	Qty	Rate	Tota
42 Gym ceiling finishes; assumes mostly open to structure with minor acoustical treatments	SF	14,000	2.25	31,500
Ceiling Finishes			\$6.66/SF	\$399,50
Interior Finishes			\$22.25/SF	\$1,335,00
D10 Conveying				
D1010 Elevators and Lifts				
28 Elevator	Stop	2	50,000.00	100,00
Elevators and Lifts			\$1.67/SF	\$100,00
Conveying ⁻			\$1.67/SF	\$100,00
D20 Plumbing				
D2010 Plumbing Fixtures				
29 Plumbing fixtures and pipework	SF	60,000	12.50	750,00
Plumbing Fixtures			\$12.50/SF	\$750,00
Plumbing ⁻			\$12.50/SF	\$750,00
D30 HVAC				
D3090 Other HVAC Systems and Equipment				
30 HVAC, incl. DDC controls	SF	60,000	34.00	2,040,00
Other HVAC Systems and Equipment			\$34.00/SF	\$2,040,00
HVAC -			\$34.00/SF	\$2,040,00
D40 Fire Protection				
D4040 Sprinklers				
31 Fire sprinklers	SF	60,000	4.25	255,00
Sprinklers -			\$4.25/SF	\$255,00
Fire Protection			\$4.25/SF	\$255,00
D50 Electrical				
D5010 Electrical Service & Distribution				
32 Electrical service and distribution	SF	60,000	10.50	630,00
Electrical Service & Distribution			\$10.50/SF	\$630,00
Liectrical Service & Distribution				
D5020 Lighting & Branch Wiring				1,140,00
	SF	60,000	19.00	.,,
D5020 Lighting & Branch Wiring	SF	60,000	19.00 \$19.00/SF	\$1,140,00
D5020 Lighting & Branch Wiring 33 Lighting and branch wiring	SF	60,000		
D5020 Lighting & Branch Wiring 33 Lighting and branch wiring Lighting & Branch Wiring	SF SF	60,000		
D5020 Lighting & Branch Wiring 33 Lighting and branch wiring Lighting & Branch Wiring D5030 Communications & Security			\$19.00/SF	\$1,140,00



Concept Rev2

Location Uniformat Level 2/Uniformat Level 3 Item

A BUILDING (continued)

Description	Unit	Qty	Rate	Total
E10 Equipment				
E1090 Other Equipment				
44 Allowance for A/V equipment	SF	60,000	2.00	120,000
43 Allowance for bleachers	Item			75,000
36 Allowance for fitness/gym equipment	Item			50,000
35 Allowance for kitchen equipment - Assumes none in scope	Item			Excl.
Other Equipment			\$4.08/SF	\$245,000
Equipment ⁻			\$4.08/SF	\$245,000
E20 Furnishings				
E2010 Fixed Furnishings				
37 Casework, furnishings, misc. equipment	SF	60,000	7.50	450,000
38 Movable furnishings incl. carts, desks, chairs, etc Excluded	Item			Excl.
Fixed Furnishings			\$7.50/SF	\$450,000
Furnishings -			\$7.50/SF	\$450,000
G10 Site Preparations				
G1030 Site Earthwork				
39 Allowance for structural excavation, misc. earthwork	SF	60,000	6.25	375,000
Site Earthwork			\$6.25/SF	\$375,000
Site Preparations			\$6.25/SF	\$375,000
BUILDING			\$305.86/SF	\$18,351,760



Concept Rev2

Location Uniformat Level 2/Uniformat Level 3 Item

B SITEWORK

B1 ON-SITE WORK

Rates Current At June 2019

Descr	iption	Unit	Qty	Rate	Tota
F20	Selective Building Demolition				
F20	_				
40	Demo of (E) Classroom and Gym buildings, incl. abatement of	SF	65,297	25.00	1,632,425
.0	hazardous materials	О.	00,201	20.00	1,002,120
67	Demo of Boiler building, incl. abatement of hazardous materials	SF	1,935	30.00	58,050
68	Demo of Cafeteria building, incl. abatement of hazardous materials	SF	10,932	25.00	273,300
69	Demo of Maintenance/Training Building, incl. abatement of hazardous materials	SF	7,400	25.00	185,000
	Building Elements Demolition				\$2,148,775
	Selective Building Demolition				\$2,148,77
G10	Site Preparations				
G10	020 Site Demolition & Relocations				
50	Demo hardscapes and softscapes	SF	242,056	1.25	302,570
65	Demo of (E) utilities - Allowance	Item			100,000
	Site Demolition & Relocations				\$402,57
G10	030 Site Earthwork				
66	Grading, leveling, compaction (Assumes significant cut/fill is not required)	SF	242,056	1.50	363,084
	Site Earthwork				\$363,084
	Site Preparations				\$765,65
G20	Site Improvements				
G2	020 Parking Lots				
47	Parking lot; complete incl. paving, base courses, curbs, signage, etc.	SF	58,607	10.00	586,070
	Parking Lots				\$586,070
G2	030 Pedestrian Paving				
49	Standard pedestrian paving, incl. base course	SF	16,542	8.25	136,472
	Pedestrian Paving				\$136,472
G2	040 Site Development				
4	Allowance for misc. site development	Item			600,000
	Site Development				\$600,000
G2	050 Landcaping				
54	Landscaping, incl. irrigation	SF	46,378	6.50	301,457
48	Soccer field, natural grass, incl. irrigation and drainage	SF	77,031	4.50	346,640
	Landcaping ⁻				\$648,097
	Site Improvements				\$1,970,639

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Concept Rev2

Location Uniformat Level 2/Uniformat Level 3 Item

B SITEWORK

B1 ON-SITE WORK (continued)

Rates Current At June 2019

escription	Unit	Qty	Rate	Tota
30 Site Civil/Mechanical Utilities				
G3010 Water Supply				
55 Domestic water - Allowance	Item			100,000
56 Fire water - Allowance	Item			100,000
I	Water Supply			\$200,000
G3020 Sanitary Sewer				
57 Sanitary sewer - Allowance	Item			60,000
Sa	nitary Sewer			\$60,000
G3030 Storm Sewer				
59 Stormwater - Allowance	Item			250,000
	Storm Sewer			\$250,000
Site Civil/Mecha	nical Utilities			\$510,000
40 Site Electrical Utilities				
G4010 Electrical Distribution				
60 Site electrical service - Not Required. Will utilize se adjacent building	ervice from Item			Excl
Electrica	l Distribution			Excl
G4020 Site Lighting				
61 Site lighting	Item			150,000
64 Soccer field lighting	Item			300,000
	Site Lighting			\$450,000
G4030 Site Communication and Security				
5-1000 One Communication and Coounty	• .			75,000
62 Site data/telecom service - Allowance	Item			
-				\$75,000
62 Site data/telecom service - Allowance Site Communication				\$75,000 \$525,000

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Concept Rev2

Location Uniformat Level 2/Uniformat Level 3 Item

B SITEWORK

B2 OFF-SITE WORK

Rates Current At June 2019

2 OFF-SITE WORK			K	ates Current	At June 201
Description		Unit	Qty	Rate	Tota
G20 Site Improvements					
G2010 Roadways					
5 Off-site work - Allowance		Item			500,000
	Roadways				\$500,000
	Site Improvements				\$500,00
	OFF-SITE WORK				\$500,00



APPENDIX 6.2

DAHP Review



December 4, 2018

Ms. Shauna Bilyeu Superintendent Washington School for the Deaf 611 Grand Blvd. Vancouver, WA 98661

In future correspondence please refer to:
Project Tracking Code: 040808-04-WSD

Property: School for the Deaf

Re: 2008 Memorandum of Understanding

Dear Ms. Bilyeu:

Thank you for contacting the Washington State Department of Archaeology and Historic Preservation (DAHP). The above referenced project has been reviewed on behalf of the State Historic Preservation Officer (SHPO) under provisions Governor's Executive Order 05-05. Our review is based upon documentation contained in your communication. As a result of our review, we have the following comments that summarize our understanding of the progress of the project up to the present day, and DAHP's recommendations for the completion of the project:

- 1. The Washington School for the Deaf (WSD) campus was determined to be eligible for listing in the National Register of Historic Places in 2008 as a historic district. The State of Washington Department of General Administration (now the Department of Enterprise Services [DES]) proposed to demolish eight historic buildings within the campus, all of which were determined to contribute to the historic district, to accommodate a new Academic Building and Gym.
- 2. The WSD, DES, and DAHP agreed that the demolition of these buildings would adversely impact the historically significant resources, and therefore agreed to measures that would mitigate the loss of the resources into a Memorandum of Understanding (MOU); all three parties signed the MOU in 2008. The stipulations of the MOU included the following:
 - a. Preparation of a NRHP Multiple Property Documentation (MPD) Form focusing on the life and architectural work of Donald J. Stewart.
 - b. A NRHP nomination for the Northrop Elementary School.
 - c. Level II Mitigation Documentation of the historic buildings on the WSD campus.
- 3. In late 2008, DAHP received drafts of the MPD, Northrop Elementary School NRHP nomination, and Level II Mitigation Documentation. DAHP reviewed and sent comments back regarding the draft documents, but has not received any further communication regarding draft or final versions of any mitigation documents at the writing of this letter. DAHP therefore does not consider the MOU completed.
- 4. DAHP understands that Deer Hall, a building that was determined to be eligible, was demolished and replaced with the Kastel Cafeteria in 2009.

In order to complete the execution of the MOU, we request that aforementioned mitigation documents incorporate DAHP's 2008 comments and be re-submitted to DAHP for review and listing in the NRHP. As conditioned in the MOU, the final mitigation documentations will be retained by DAHP and the Washington State Archives. Copies will be submitted to the Clark County Museum in Vancouver and the



WSD. The Vancouver-Clark County Historic Preservation Commission must be kept apprised of the ongoing efforts.

Thank you for the opportunity to review and comment. Please ensure that the DAHP Project Number (a.k.a. Project Tracking Code) is shared with any hired cultural resource consultants and is attached to any communications or submitted reports. If you have any questions, please feel free to contact me.

Sincerely,

Holly Borth

Project Compliance Reviewer

(360) 586-3533

holly.borth@dahp.wa.gov



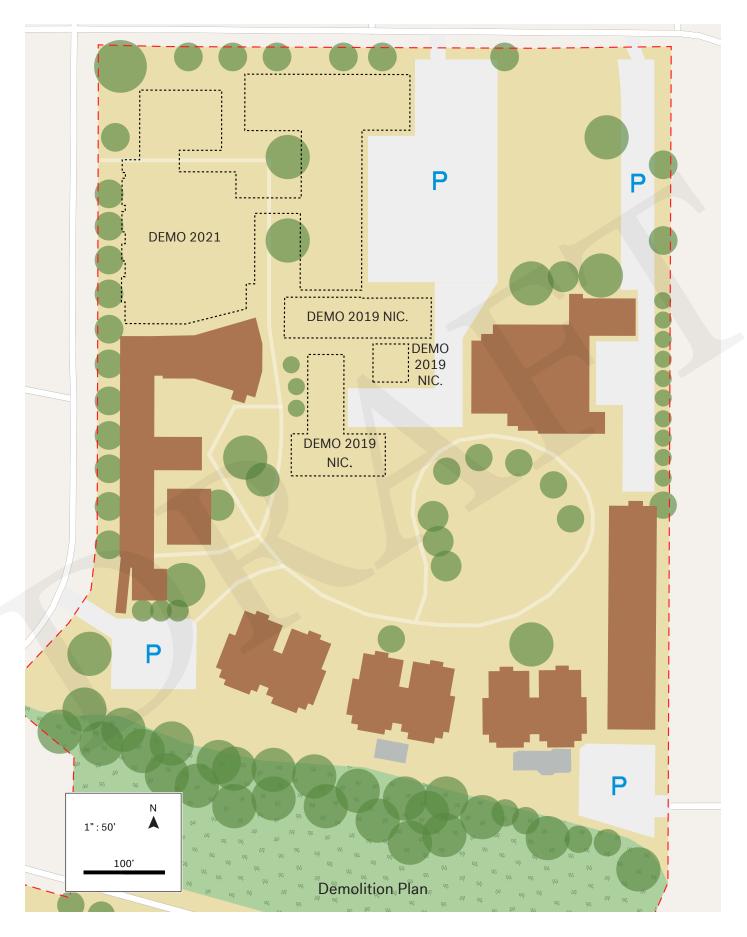


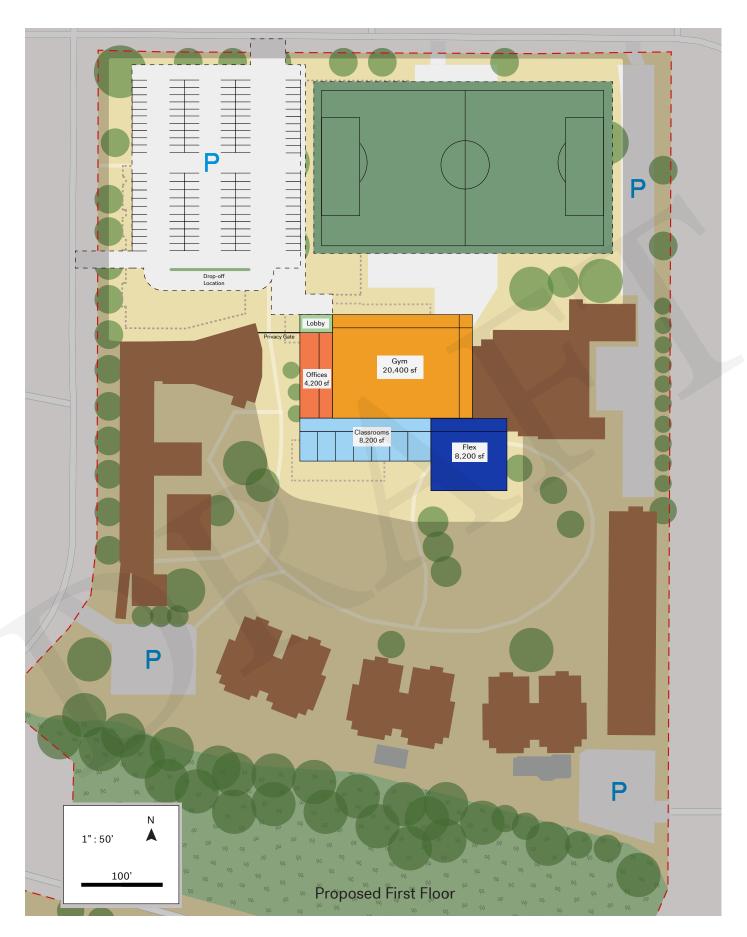
APPENDIX 6.3

Drawings and Sketches



















APPENDIX
Phase-I Demolition Study

6
4

1.0 INTRODUCTION

1.1 PROBLEM STATEMENT

The Center for Childhood Deafness and Hearing Loss (CDHL) has been in the planning and conceptual phase of project to build a new classroom and gymnasium building to serve their students. The scope of this project identified a new building which would be constructed in the central area of the campus which currently houses four existing buildings. It would also replace the existing Devine School and Hunter Gymnasium, both of which being removed in a second phase under the new project. The proposed project identified the demolition of the four existing buildings as being completed under a separate project prior to the start of the new.

The CCDHL was successful in obtaining \$1M funding in the 2017-19 Capital Budget to update the Predesign Study and to fund the "removal five aging and decayed buildings". In reviewing the previous studies and project work on the campus, it became clear that no specific analysis of the existing buildings identified for removal had been made. Cursory review of their condition coupled with the interconnected nature of the campus utilities called into questions the adequacy of the funded amount to cover the intended demolition.



Aerial of CCDHL Campus with buildings to be demolished highlighted

Reviewing the site and plans with CCDHL Facilities staff, noted several issues that will impact developing an accurate demolition plan and estimate. These include:

- There are a considerable number of existing active and abandoned utilities (water, sewer, gas, power, telecommunications, signal, etc.) that traverse the site from building to building including utilities that are routed through the buildings to be demolished, that currently serve buildings that remain.
 These utilities will have to be identified and rerouted out of the subject buildings to allow for their demolition.
- There is known asbestos-containing materials (ACM) in the buildings to be removed. Additionally, there is likely other hazardous materials present such as lead paint, PCB/s, freon, and other industrial waste.



- There is no existing plan or survey of utilities that reflect the full extent of the existing conditions.
- The last record assessment of hazardous materials was over 10-years ago, and it was not complete enough to use in planning the demolition.

The CCDHL has undertaken this pre-demolition study to address the above issues and define the scope, schedule, and cost of a demolition project to proceed the planned new building.

1.2 FINDINGS

The demolition of the subject building can be accomplished by normal mechanical and manual means provided adequate pre-demolition scope is accomplished. This includes:

- Installation of temporary shoring in the Boiler House to make the structure safe for pre-demolition and demolition scope execution.
- Abatement and removal of identified ACM and other identified hazardous materials (Appendix B)
- Removal of the large equipment and structural framing within the Boiler House.
- Installation of new emergency power generator to replace active one adjacent to and in the Boiler House.
- Interception and rerouting of existing "dry" utilities (fire alarms, fiber optic) that are in or directly adjacent to the subject buildings and their attached utility tunnels.
- Interception and rerouting of existing "wet" utilities (domestic and fire protection water, sanitary, stormwater) that are in or directly adjacent to the subject buildings and their attached utility tunnels.

1.3 RECOMMENDATIONS

We recommend that the project be designed and bid as a single project using traditional design-bid-build. This approach will ensure that a responsible General Contractor will be leading the effort with major subcontractors for Abatement, and Site Civil work.

1.4 ESTIMATED COST

For the proposed demolition, we have estimated the construction MACC to be \$4,395,251 and the overall project costs to be \$5,376,000. Both estimates have been escalated to July 2020.

The estimated costs are considerably greater that was anticipated in the initial project request, primarily due to the extent of hazardous materials in the subject buildings and the extent of site utilities which have to be relocated and/or removed prior to building removal.

1.5 PROPOSED SCHEDULE

As the initial funding is not adequate to cover the full or partial cost of the demolition, we recommend that the estimated cost above the current allocation be requested in the 2020 supplemental capital budget. It is desired that the bulk of the work be planned to occur over the summer months when the school is on summer break. The project can be designed and bid prior to 1 July and the execution can be planned for July-September 2020.

This would ensure the Phase-I Demolition is complete prior to the start of construction of the new school in 21-23 Biennium.

2.0 SCOPE OF STUDY

2.1 STUDY METHODOLOGY

The study team conducted a review of the available documentation on the subject buildings and conducted a series of site investigations accompanied by campus facilities staff to accomplish the following

- a. Identify physical constraints and parameters for the physical demolition of the buildings.
- b. Conduct a field survey of the subject buildings and utilities to locate, identify, and quantify asbestos-containing building materials; lea-containing paint and building materials; polychlorinated biphenyl (PCB) containing sealants and light ballasts; mercury-containing thermostats and fluorescent light tubes, chlorofluorocarbon (CFC) or hydrochlorofluorocarbon (HCFC) containing equipment; and tritium containing exit signs prior to impact via demolition activities. The survey is also intended to satisfy Occupational Safety and Health Administration (OSHA) hazard communication requirements as well as Washington Administrative Code (WAC) 296-62 which requires a "Good Faith" inspection prior to demolition and renovation activities.
- c. inspecting the utilidors affected by the demolition work and locating service connections supplied by piping to be removed during the building demolition.
- d. Inspecting the utilidors affected by the demolition work and locating MEP and Telecommunications services be removed during the building demolition.

2.2 STUDY TEAM

The study team was composed of the following consulting firms:

- Schreiber Starling Whitehead Architects Prime Architect
- PBS Environmental Hazardous Materials Testing and Abatement Planning
- PBS Engineering Site Civil utilities, location, assessment, and relocation. Site restoration.
- Wood Harbinger, Inc. Site Mechanical, Electrical and Telecommunications systems assessment, and relocation

3.0 EXISTING CONDITIONS

3.1 BOILER HOUSE

General

Built in 1923, the Boiler house is the second oldest existing building on the CCDHL campus. It was designed by the Northwest Engineering Company of Seattle and contains approximately 2,300-gsf of area. Originally housing coal-fired boilers, the heating equipment was changed to natural gas-fired boilers and heat exchangers in the early 1950's. At that time, a large brick smokestack was removed from the southwest corner along with a section of the brick wall to allow for transfer of equipment out and in to the building. This opening was infilled with concrete masonry.

It is difficult to tell from the minimal original drawings available of the building, but it appears that the northern 12-ft of the building may have been a later addition to the original 1923 construction. The change in window type to a square opening and the presence of a low-slope roof support this speculation along with relationship of the steam tunnel to the northwest corner of the building.





Boiler House from Southwest

Boiler House from Northeast

Foundations/Floor Slab

The foundations appear to be continuous cast concrete spread footings at a depth of 3-4 ft below grade with a 12" concrete foundation wall. The wall extends to approximately 3'-6" above exterior grade. The building has a cast-concrete floor slab (assumed 6" thick" on grade with a lower section to the east and sumps and a coal elevators pits that were formed approx. 3-ft below the main floor level. There is a shallow concrete utility trench containing abandoned steam piping running from the building at the northwest corner into the adjacent Cafeteria Building.

Some steel reinforcing is assumed to be present in the cast concrete as was common practice when it was initially constructed.

Exterior Wall

The exterior wall is load-bearing and appears to be three-wythe deep brick masonry for a total of 12" thickness. The wall extends approximately 30-ft above adjacent grade. It is assumed that this wall has no or minimal steel reinforcing within. When the equipment was changed out in the 1950's, section of



original masonry on the west wall was removed to create an opening supported by an applied steel channel header bolted through on the interior and exterior. The opening was then infilled with 8" concrete CMU flush to the interior face of the brick. The CMU wall is assumed to have minimal reinforcing, typical to its age.

Windows are steel framed single-glazed with arched tops. There is a double door at the Northwest corner of the building that opens on grade. It was added in an earlier opening that was narrower than the current opening. There is another single door on the south elevation that opens at the lower sump level. This door has a concrete stair well up to the adjacent grade.

The condition of the exterior wall is very poor. Mortar is soft and loose at places and there are several areas where the masonry has cracked, particularly at the building corners. The condition of the windows and doors are equally poor with some of the glass being missing. Plants have grown up and through one of the windows on the south elevation.

Roof Structure

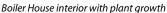
The majority of the roof structure is comprised of large-timber, lower chord-bearing bolted trusses in a pyramidal form with a vent/dormer to the east and a cupula vent at the peak. There are wood joists between the top chords of the trusses and a corrugated metal roof. The north 12-ft has a lower-sloped shed roof.

The condition of the roof wall very poor. As the building has been abandoned, there has been no effort to repair leaking.

Interior Wall

There is one interior wall that appears to be un-reinforced 3-wythe brick masonry atop a cast-concrete stem wall creating a 12x12-ft control room that is elevated approx. 4.5-ft off the floor level. Its construction is similar to the exterior wall which support the finding that the northern 12-ft was a later addition.









Boiler House equipment and interior structural frame

Interior/Equipment

The Boiler Building houses three large gas-fired boilers that are circa 1950-1960. These have attached pumps, blowers, piping, heat-exchanges, valves, etc. The piping and equipment are supported by a steel-framed armature surrounding the boilers This framework appears to be supported on thinker slab areas and raised to a height of approximately 21-ft. There are interior access stairs and service platforms attached to the framework. All the steam/hot water systems in the building have been deactivated.

There is considerable insulation and lagging on the boilers and piping, much of it asbestos-containing. See appendix for locations and quantities.

Demolition Issues

- The condition of the load-bearing walls and the need to do significant abatement followed by deconstruction and removal of the old boilers and their supporting structure will require temporary shoring and bracing of the structure prior to full demolition.
- In addition to usual building demolition of the building, the scope will include removing the shallow utility trench and piping
- The existing generator and transfer switch location in/adjacent to the building will need to be replaced prior to demolition

KITCHEN/CAFETERIA

General

Built in 1927, the Kitchen/Cafeteria building was one of the last buildings designed by Spokane architect Julius Zittle. The design incorporated an existing concrete-framed pump/well room in its northwest corner. It totaled 9,202-sf and housed a commissary, repair room, and storeroom, in addition to the campus kitchen, bakery, and the dining hall. In 1955, a 1,700-sf addition was made to east, expanding the Dining Hall designed by Portland architects Stewart and Richardson. As part of the addition project, the commissary and pump room functions were changed to serve as the campus laundry.



Kitchen/Cafeteria from the southeast



Foundations/Structure

The foundations appear to be continuous cast concrete spread footings, 2-ft x 1-ft at a depth of 4'-10" ft below the upper floor line on the perimeter and at load-bearing interior walls. Along the east wall, running north-south and approx. at the center of the dining hall, running east-west a utility tunnel is formed by lowering the foundation to 7'-2" below the floor and casting a slab-on grade turned up 1'-10" to the bottom of the crawlspace excavation. The tunnel turns to the east and connects to the adjacent boiler building. It loops around the perimeter of the addition and once ran south out of the dining hall are to an administration building. This tunnel section was removed and closed-off when the original administration building was demolished.

Foundation walls are typically 14" thick cast-concrete and columns are 12"x12" concrete.

The floor structure is comprised of 12" x 22" reinforced concrete beams spanning 15–18-ft supported by 13" concrete walls or 12" columns. A composite joist/slab with 5-1/2" x 8" joists and 2-1/2" slab, spans 10-12-ft between beams at 5-ft centers.

Exterior Wall

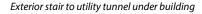
The exterior wall at the old Dining Hall consists of load-bearing 5" thick cast concrete pilasters wrapped in brick masonry and faced on the interior with plaster. The concrete is indicated to be reinforced. At the windows only 2-wythes of brick are used. The concrete thickens to 8" and extends over the head of the windows. The exterior wall at the Kitchen area consists of continuous load-bearing 5" thick cast concrete wall wrapped in brick masonry on both sides and faced on the interior with plaster. The concrete is indicated to be reinforced.

Exterior Windows are steel-framed with single-pane glazing. The glazing is stopped into the frame with putty which has been tested to contain asbestos. This material must be abated in conjunction with demolition of the windows. (see Appendix B).

Roof Structure

The roof structure is comprised of composite steel-reinforced concrete joist with $5" \times 10-14"$ joists and an integral 2-1/2" reinforced slab spanning between interior and exterior bearing walls. Drainage to roof drains is accomplished by adding sloped concrete fill above the 2-1/2" minimum thickness.







Exterior wall at Dining Room addition.

Interior

Load-bearing interior walls are 13" thick with 10" cast concrete and plaster facing. Non-load bearing walls are 6" with brick masonry and plaster facing. Ceilings are lay-n acoustic tile. Flooring varies from linoleum to VCT to quarry tile.



Interior at old Dining Room, currently serving as a fitness room.

Interior/Equipment

The Kitchen/Cafeteria houses a large inventory of pre-fabricated refrigeration and kitchen equipment which has been abandoned. There are considerable quantities of pipe runs in the crawlspace/utility tunnels. There is a considerable quantity of hazardous materials which must be abated in order to demolish/remove the equipment and its serving utilities.

Demolition Issues

- In addition to usual building demolition of the building, the scope will include removing the shallow utility trench and piping
- There are several walk-in refrigeration rooms which will need to be cleared of residual freon or other controlled gasses.
- There is a cast-in-place concrete grease separator in the crawlspace below the kitchen which may require special handling.









Interior kitchen equipment to be removed



MAINTENANCE/STORAGE

General

Completed in 1911 as the first Vocational Education building on the campus, the Maintenance/Storage Building is the oldest existent campus building. Totaling approximately 9,160-sf, the western third of the building is original construction. There have been two additions to the structure, one in 1914 and the last in 1955.

There are no record drawings of the original building or the 1914 addition however drawings of the 1955 eastern addition exist.



Maintenance/Storage from the Northwest

Structure/Foundations

The west portion of the building has a cast concrete basement with concrete foundation walls and a slab on grade approximately 8-ft below the ground floor. The 1955 addition has a 4" concrete floor slab with WWM reinforcing placed over an existing slab on grade.

There is a continuous raised concrete loading dock on the north side of the building.

Exterior Wall

The exterior walls of the original and initial addition are cast-in-place concrete, approximately 8" thick. It is assumed that there is some steel reinforcing in these walls which was typical of construction at the time. The exterior wall of the 1955 addition is 8" concrete block with K-web reinforcing every other course. On the north side, this wall is set atop an existing partial height concrete wall.

Roof Structure

The majority of the roof structure is comprised of a truss of 4x bolted timber trusses with 2x wood joists, 3/4" wood sheathing and composition shingle roof. There is a continuous light monitor at the roof peak farmed with 2x wood with glazing to the north and metal siding to the south.

Interior Walls

Interior wall in the original portion of the building are wood framed with plaster finish. There is one interior wall that appears to be reinforced 6" concrete masonry

Interior/Equipment

There is not a significant amount of equipment in the building which would need to be separately removed. Fire alarm circuits from Clarke Hall and the cottages are routed through the Maintenance/Warehouse Fire Alarm Cabinet which needs to be relocated and wires re-pulled prior to demolition.

Demolition Issues

• Relocation of the existing fire alarm junction box in the basement of this building will need to be relocated and reconnected prior to demolition.

EPPERSON VOCATIONAL

General

Constructed in 1961 as the Vocational Education building on the campus, the Epperson Vocational School totals approximately 38,576-sf configured in a "T" plan with the cross part of the tee being a 2-story wing that housed the middle school and the base part being a high-bay vocational trades wing. In 1990, there was a small addition to the southwest corner of the 2-story wing which provided an elevator for ADA access.



Epperson from the Northwest (2-story Classroom Wing)



Epperson from the Southeast (1-story Shop Wing)

Structure

The building has a concrete frame structure with non-load bearing masonry or curtainwall infill. Vertical loads are carried by 16-in square concrete columns in the shop wing and a variety of sized concrete columns in the two-story classroom wing. The end columns of the classroom wing are 16-in x 10-in concrete with a 8WF48 steel section embedded.

Reinforced-concrete footings measuring 4'-6" x 4'-6" x 13" thick at the classroom wing and 16" thick at the shop wing bear on prepared soil and support the columns. Footings where the wings connect are increased to 5'-9" square. Depth of the footings verify between 4–6-ft depending on location and presence of an adjacent tunnel. The exterior walls and interior block walls in the shop area are supported on continuous concrete footings. Floor slabs are typically 4-in reinforced with 6x6 wire mesh.

The second floor of the classroom wing is comprised of 5-in wide, 10-in deep ribbed reinforced-concrete joist at 25-in on center with an integral 2-1/2-in floor slab. The joist bear on 10-in concrete beams spanning between columns. The roof of the classroom wing is comprised of 5-in wide, 8-in deep ribbed reinforced-concrete joist at 25-in on center with an integral 1-1/2-in floor slab. The joists bear on 10-in concrete beams spanning between columns with the outer beams approx. 3-ft higher than the center columns to provide slope for drainage.

There is a small section of wood-framed mezzanine in the shop wing. All this structure is 2x framing and plywood bearing on 8-in CMU walls.

The roof structure at the shop wing uses nominal 10x26-in glue-laminated beams spanning north-south between concrete columns. The roof decking is 4x6 tongue-groove wood decking spanning E-W between beams and to the 3-3x10 headers at the perimeter walls. The roof slopes to the middle of the span for drainage.

Stairs at the classroom wing are reinforced concrete that act at shear walls in both the N-S and E-W direction.

Basement/Tunnels

There are two small equipment cast-concrete basement areas in the shop wing. One in the north shop serves as an electrical vault. It is accessed from a stair in the northeast of the shop wing and is partially outside (for heat venting) and partially under the shop floor. It has a two-level floor 7-ft and 10-ft below the floor level. The second is an extension of a 6x6-ft utility tunnel that runs along the west side of the shop wing 6.5-ft west of the foundation wall. The tunnel is accessed from a stair at the southwest corner of the shop wing. The utility tunnel continues north under the classroom wing to the north foundation wall. It branches to the east and west and continues along the E-W foundation walls but at a 3-ft width and 3-ft depth. The tunnels typically have 6" thick reinforced walls and 4" floor slabs. Where the tunnel roof serves as the floor above, it is supported by corrugated steel spanning the tunnel width.

Exterior Wall

Classroom wing: The north and south exterior walls f are 8" concrete wall/beam turned up at the floor 3-ft and extending down at the roof/floor 1-ft. The wall is faced with an aluminum curtainwall with glass or porcelain panel infill. The east and west facades are non-load-bearing 6-in concrete shear walls with brick veneer except at the center corridor section where the 6-in concrete wall is exposed as a spandrel on the second floor.

Shop wing: The east and west exterior walls are 6" concrete block wall with either brick veneer or aluminum curtainwall over a 3-ft high 4" concrete block veneer. The north wall is an 8-in reinforced concrete shear wall while the south wall is non-load-bearing 6-in CMU with brick veneer.





Typical Shop interior

Typical Classroom interior

Interior Walls

Classroom Wing: Most interior walls are 2x4 wood framing at 16-in O.C. with ¾-in lath & plaster on finish facing. The interior wall where the two wings connect is 8-in reinforced concrete.

Shop Wing: Interior walls are 6" CMU except at the 2-story center section where 8-in CMU is used to support the wood-framed mezzanine. in the original portion of the building are wood framed with plaster finish. There is one interior wall that appears to be reinforced 6" concrete masonry

Interior/Equipment

There is not a significant amount of equipment in the building which would need to be separately removed except for the large transformer in the basement.

Demolition Issues

Decommissioning the hydraulic fluid in the elevator would also need to precede demolition.

4.0 COST

4.1 Estimate of Overall Costs

As the C-100 form in Appendix A illustrates, the MACC for the recommended project is anticipated to total \$3,687,448 and total project costs to be \$5,376,000 both escalated to mid-point of construction.

Elements of the demolition scope that contribute significantly to the cost exceeding the funding include:

- Extensive quantity of abatement identified in the existing buildings and anticipated in the below-grade structures.
- Extent of utilities that must be relocated prior demolition of the building.



5.0 SCHEDULE

10.1 Major Milestones

Activity	Start Date	End Date	<u>Duration</u>	
Prepare Demolition Bid Documents	February 2020	May 2020	3 Months	
Bidding	May 2019	June 2020	2 Months	
Demolition Duration	July 2020	September 2020	3 Months	
(note the City Demolition permit for physical removal is limited to 30-days)				
Close-Out	September 2020	October 2020	1 Month	



TAB D

Capital Project Requests (Grant and Loan Programs)

(Not Applicable to 21-23 requests for CDHY)

Capital Project Cost Estimate

(Not Applicable to 21-23 requests for CDHY)

