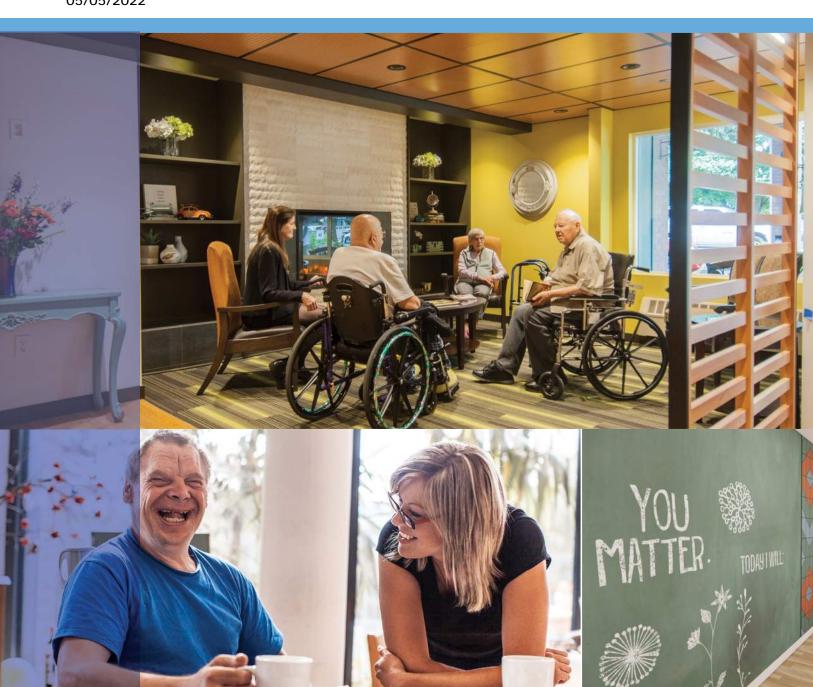




PROJECT NUMBER 2022-419 A (1)

Statewide Community Nursing Care Homes Predesign

PREDESIGN REPORT 05/05/2022







Statewide - Community Nursing Care Homes Predesign

DES/DSHS PROJECT No. 2022-419 A (1)

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Table of Contents

1	Executi	ive Summary	8
	Probl	em Statement	8
	Projec	ct Types Studied	10
	•	ons from Other State Models	
		natives Considered	
		rred Alternate	
		ct Schedule Summary	
	•	Summary	
		native Comparison Table	
		nalysis	
2	Detail A	Analysis - Preferred Option	22
	Alterr	native #2: 6-Bedroom Home - Programming	23
	Alterr	native #2: 6-Bedroom Home - Engineering Summary	24
	Delive	ery Method	26
	Plann	ing Discussion	28
	Propo	osed Funding Source	28
3	Project	: Schedule and Budget	29
	Furnit	ture and Equipment	29
	Sched	30	
	Alternative #2: 6-Bedroom C-100		31
	Alterr	41	
	Staffii	ng Plan Analysis - Overview	50
4	Appen	ndices	51
•	Α.	Pre-Design Checklist	
	B.	Life Cycle Cost Models	
	C.	30-Bed Facility - Programming	64
	D.	30-Bed Facility - Engineering Summary	
	E.	Detailed Staffing Plan	
	F.	Project Staffing & Operations Budget	
	G.	Staffing Plan: 6-Bed Home	
	Н.	Staffing & Salaries Projections: 6-Bed Home	
	J.	Staffing Plan: 30-Bed Home	
	K. L.	Staffing & Salaries Projections: 30-Bed Home	
	L. M.	Cost Estimate: 0-Bed Home	
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Executive Summary

STATEWIDE COMMUNITY NURSING CARE HOMES

Problem Statement

The 2021 Legislature appropriated capital funding to DSHS in ESHB 1080, Section 2059, to explore alternatives for nursing care services in community settings outside the existing Residential Habilitation Centers. The proviso states:

- It is the intent of the Legislature to further the recommendations of the December 2019 report from the Williams D. Rucklehaus center to redesign intermediate care facilities of the residential habilitation centers to function as short-term crisis stabilization and intervention by constructing smaller, nursing care homes in community settings to care for individuals with intellectual and developmental delays.
- \$300,000 of the appropriation in this section is provided solely to complete a predesign of community nursing care homes to provide nursing facility level of care to individuals with intellectual and developmental disabilities. The predesign must include options for five individual facilities with a minimum of four beds in each and for an individual facility with a minimum of 30 beds.
- The Department shall provide recommendations for where these community nursing care homes should be located geographically in the state and an analysis of the costs associated with operating these homes. The department shall submit a report of this information to the governor and the appropriate committees of the legislature no later than December 1, 2021.

This predesign document includes the following elements: an executive summary, analysis of alternatives, detailed analysis of preferred alternative, project schedule and budget including operational costs, and an appendix.

DSHS hired the architectural consultant team of BCRA/Sage Alliance to prepare the predesign and convened a stakeholder group to begin meeting in August 2021. The consultants facilitated the process and prepared the predesign report summarizing input received from a kickoff with the consultant team, six workshops, an interview session with stakeholders, and discussions with program leaders from similar programs in Tennessee and Oregon.

To better allow for side-by-side comparisons, the predesign explores to alternatives responsive to the proviso:

- 1. Five 6-bed nursing care homes located in different areas of the state
- 2. One 30-bed nursing care facility assumed to be located on DSHS property in Clark County

A New Model

Stakeholders providing input for this predesign included representatives of the DSHS Developmental Disabilities Administration (DDA), The Developmental Disabilities Council (DDC), The ARC of Washington State, and three clients with developmental disabilities residing in community settings. DSHS staff in the Developmental Disabilities Administration, Office of Capital Programs, Maintenance and Operations Division, and Research and Data Analysis also provided input and review.

A new model of housing is proposed as an option to the services provided in the Residential Habilitation Centers at Fircrest School in Shoreline, Lakeland Village in Medical Lake, and Yakima Valley School in Selah. The new model creates smaller living units that could potentially be placed in neighborhoods or other community settings close to family members. Many clients with developmental disabilities prefer housing options similar to those available to others and want to be more integrated with the community instead of living in residential settings serving only people with developmental disabilities. This new model would give DDA clients choices to live on their own or with others. The smaller setting gives individuals the ability to be grouped with people who are of a similar age and have similar interests, capabilities, and medical needs.

Universal Design Principles

Universal design principles guided the design concepts for these facilities, not only to meet specific ADA requirements, but also to include key elements that support daily living tasks.

Areas with special emphasis include wider doors and doorways, including easy-to-operate hardware; sinks, faucets, showers, and tubs that are easy to operate, including enhancements for getting in and out of showers and tubs; non-slip flooring with minimum transitions to support the operation of wheelchairs; electrical devices and appliances with easy-to-operate switches; and enhanced intercom and safety alarms.

Social Component of Community-Based Living

Our DDA client stakeholders expressed a desire for services near the community nursing care homes. These

include parks, churches, grocery stores, pharmacies, beauty salons, movie theaters, cafés, schools, medical offices, social and recreational facilities, and public transit. These services support independent, connected, and healthy living.

30-Bed Home

A 30-bed alternative was studied to provide a cost comparison as required by the proviso.

All community stakeholders agreed that the 30-bed alternative is not the preferred option for community nursing care homes. Even if the 30-bed facility was divided into 10-person clusters, stakeholders were of the opinion the facility would still feel too institutional.

Regulatory Challenges

The design team and stakeholders evaluated different models of DDA residential care. DSHS owns and operates four Residential Habilitation Centers (RHCs), with three RHCs providing nursing care. There would be many benefits for DDA clients if DSHS operated smaller nursing care homes in traditional residential zones.

However, currently there isn't a classification that covers a small, state-operated nursing facility in a residential neighborhood. Local zoning regulations do not typically allow Skilled Nursing Facilities in residential zones. The Adult Family Home model is designed to be run primarily by licensed live-in caregivers, not as a state-operated facility. DSHS currently operates the State Operated Living Alternatives (SOLA) program, where several DDA clients pool their financial resources to lease a home with state staff support, but few of these SOLAs include the level of nursing care typical in the RHCs.

It is likely that a new model - state-operated nursing care homes - would require modifications to the existing Certified Community Residential Services and Supports in Chapter 388.100 WAC, and Requirements for Providers of Residential Services and Supports in Chapter 388-101D WAC. A further discussion of building and zoning code challenges is included in Section 2.

Project Types Studied

The Green House Project

Dr. Bill Thomas, supported by the Robert Wood Foundation, created a new concept for nursing homes called the Green House Project. The key components are to create a smaller facility that resembles a family home, with home-like furnishings and interior design. The interior spaces are connected to gardens and nature. More control of daily living is given to residents. Resident-centered principles allow self-management (when residents get up, eat, what activities they participate in, etc.) Food is prepared on premises and medical equipment is tucked away out of sight.



Image from Green House at Traceway, Miss. by Methodist Senior Services and McCarthy Co. Based on Eden Principles by Dr. Bill Thomas



Image showing example of an Adult Family Home environment



Image from Green House at Traceway, Miss. by Methodist Senior Services and McCarthy Co. Based on Eden Principles by Dr. Bill Thomas

Project Types Studied

Adult Family Home

Another model discussed was the Licensed Adult Family Home. These facilities have historically provided care for up to six residents at a time. Recent regulations now allow these homes to expand to eight residents if the home has been in operation for several years.

Adult Family Homes specializing in services for people with developmental disabilities are currently available. The Adult Family Home designation does not currently provide licensed skilled nursing.

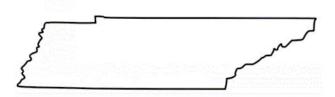




Image showing example of an Adult Family Home environment

Lessons from Other State Models

The project team interviewed representatives from the State of Tennessee and the State of Oregon to discuss Nursing Care home models.

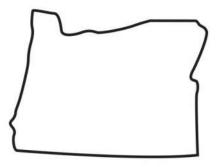




The Tennessee program started 15 years ago, rising out of a lawsuit stating that children were being "incarcerated with elderly adults" in residential habilitation centers. The results of the lawsuit led to de-institutionalizing care. During the first five years, the state built 37 new 4-bedroom intermediate care facilities. The 4-bedroom homes are roughly 2,500-3,000 square feet each. Currently, most homes house three residents. All 16 of the homes operated by the East Tennessee Region are located within a sixty-mile radius of each other, which enables the program to share some centralized services. The program now houses approximately 128 residents.

Over the following 10 years, local agencies and third party providers started operating 3- or 4-bedroom homes funded by Tennessee's Medicaid 1915 Waiver. Non-state homes are popular and offer high-quality care. 90% of the clients with developmental disabilities live in non-state operated homes.

Currently, there are no residential habilitation centers operating in Tennessee.



Oregon Model

In Oregon, residents with developmental disabilities live in 5-bedroom homes. Residents are matched based on medical need and the culture of the home. This enables people with like interests and needs to live together. Centralized administration and maintenance is provided on a contract basis. The homes are privately operated and are licensed by the state.

There are tiers of services in the homes based on medical need with staffing designed to support what the residents require. Homes are clustered a few miles apart, but close enough so that several homes may share services. Residents feel a part of the community, as they live in neighborhoods as opposed to an institutional setting.

Alternatives Considered

For the purposes of this Predesign Study, three alternatives have been evaluated. A staffing model and an associated operating cost model have been prepared for Alternative 2 and Alternative 3.

Alternative #1: No Action - Status Quo

This option takes no action to provide community-based nursing care home options for state residents.

Alternative #2: 6-Bedroom Home

This option creates five 6-Bedroom homes at five locations in Washington state.

Alternative #3: 30-Bed Community Nursing Care Facility

This option creates a single new 30-Bedroom nursing facility. For planning purposes only, this facility is sited on stateowned land in Clark County.

There are certainly several options in the size and location of these alternatives. For simplicity in comparing Alternative 2 and Alternative 3, each alternative provides 30 beds of community nursing care.

Alternative #1: No Action - Status Quo

Key Concepts of the No Action - Status Quo Alternate:

- State residents with developmental disabilities will continue to request services from DSHS.
- The three existing RHCs will be the primary option for DDA clients requiring skilled nursing care.
- · Because the need for skilled nursing beds is projected to grow as the state's population ages, delaying action to site and build community nursing care homes will likely increase construction costs.

Alternative #2: 6-Bedroom Home

This option creates five 6-Bedroom homes at five locations in Washington State, owned and operated by the state of Washington.

Unique elements of this option:

- 1. Goal is to create a lower capital cost option that could be placed in a residential neighborhood setting.
- 2. Residential Scale facility. Finishes proposed to be in the 20 to 30 year life span.
- 3. Minimal off-site costs.
- 4. LEED and Net Zero not included.
- 5. Designed to provide nursing care for less acute cases.

Preferred Alternate

Key Concepts of the 6-Bedroom Model:

- Designed on a residential scale to feel like a family home
- Incorporates Green House Concepts
- Abundant natural light and access to the outdoors
- · Designed to skilled nursing standards
- ADA accessible and includes elements of Universal Design
- Bedrooms include Hoyer lifts
- Each pair of bedrooms share a jack-and-jill bathroom
- Tub and shower are available for residents in a separate bathing room
- · Shared living room, dining room, and kitchen
- · Covered outdoor porches
- Separate or attached van garage



6-Bed Facility - Concept Floor Plan

Aproximately 5,000 SF an attached 1,000 SF Garage



LEGEND



COMMON SPACES & CIRCULATION

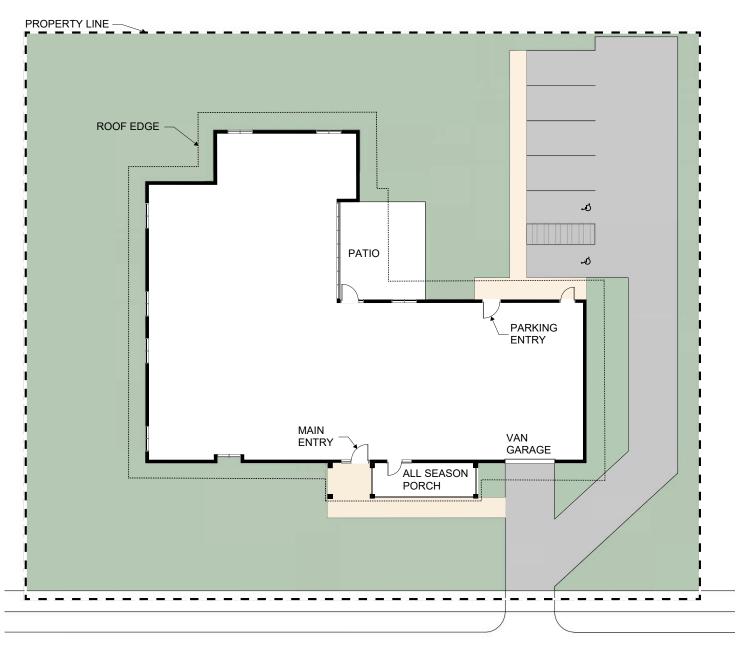
SERVICE

ADMINISTRATION OFFICE

OUTDOOR SPACES

6-Bed Facility - Concept Site Plan

0.5 ACRE SITE with public water and sewer utilities



LEGEND

PAVED DRIVEWAY & PARKING

ACCESSIBLE PATHWAY

LANDSCAPE

BUILDING FOOTPRINT

Alternative #3: 30-Bed Facility

This option creates a single new 30-Bedroom Nursing Facility

Unique elements of this option:

- 1. This option is modeled as a typical state operated skilled nursing facility.
- 2. It is likely to be developed in a traditional commercial or institutional zone with frontage improvements required.
- 3. It will have institutional level finishes designed for a 50 year life.
- 4. This option includes LEED silver and Net Zero Energy capability.
- 5. Designed to provide nursing care for more acute cases.

Key Concepts of the 30-Bed Model:

- Designed to feel like a family home with similar furnishings and interior design
- Incorporates Green House Concepts
- · Abundant natural light and access to the outdoors
- Designed to skilled nursing standards

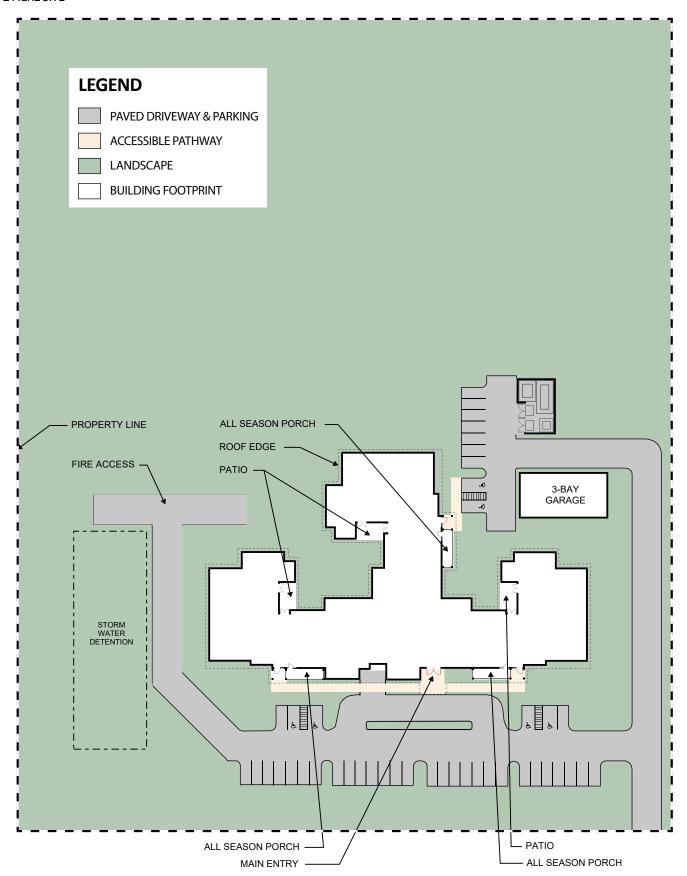
- ADA accessible and includes elements of Universal Design
- Bedrooms include Hoyer lifts
- Each pair of two bedrooms share a bathroom
- Tubs and showers are available for residents in separate bathing rooms
- Each 10-bedroom module shares a living room, dining room, and kitchen
- Covered outdoor porches
- All-season enclosed porches provided so residents sensitive to outdoor temperatures are protected from the wind and cold
- · Central commercial kitchen
- Central shared large multi-purpose room, administration offices, therapy space, and activity room
- Separate 3-car garage and maintenance shop



Alternative #3: 30-Bed Facility

30-Bed Facility - Concept Site Plan

2 ACRE SITE



Project Schedule Summary

This project schedule assumes the project would be funded for design phases in the 2023-2025 biennium and construction would be funded in the 2025-2027 biennium.

Funds for land acquisition and design would be available in the fall of 2023.

Design and permitting would be completed by February of 2025.

Construction would begin in September of 2025.

Project would be compete and closed out by December of 2026.

This project schedule applies to both alternatives 2 and 3.

Cost Summary

Estimated project cost for Alternative 2

Five, 6-bedroom nursing care homes for a total of 30 residents:

\$43,231,000

Estimated project cost for Alternative 3

30-bedroom nursing care facility is:

\$51,539,000

See Appendices

L. Cost Estimate: 6-Bed Facility M. Cost Estimate: 30-Bed Facility

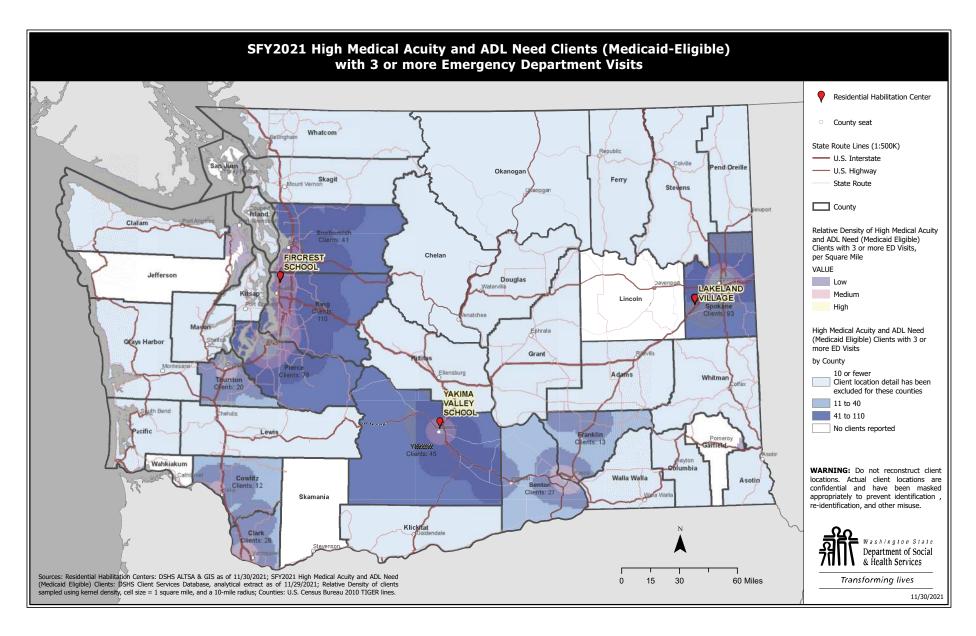


Alternative Comparison Table

Alternative Description	Advantages	Disadvantages	Project Costs per 30 beds	Annual Operating Costs per 30 beds
Alternative #1: No Action - Stat	us Quo			
This option takes no action to provide a community-based nursing care home option for state residents.	Other than being the least expensive option, there is no apparent service or programmatic advantages to this alternative for clients with developmental disabilities.	1. Continue to have limited options. Community-based residential nursing options will be very limited for state residents with developmental disabilities. DSHS will contnue to provide skilled nursing care for DDA client primarily in the existing RHCs. Many states have moved away from an institutional approach for skilled nursing care and are providing community based options. 2. Higher Costs: The need for skilled nursing beds for DDA clients in Washington State is projected to grow; the state will need a variety of options to respond to this need. Delaying action in siting and building community nursing care homes will result in higher project and construction costs for these facilities. 3. Litigation Risk: There is a potential of litigation if Washington State does not provide a community based option. Other states have faced litigation challenging their lack of non-institutional care options as a civil rights issue.	Not Applicable	Not Applicable
Alternative #2: 6-Bedroom Hon	ne			
This option builds 6- bedroom homes at five locations in Washington State.	1. The 6-bedroom setting was highly preferred by the community stakeholders and advocates. 2. This option enable people with developmental disabilities to live in neighborhoods close to desired community services. 3. This option provides residents with more choice over who they live with. Homes can be structured around common interests and needs. 4. Approximately 1.5 acres utilized, easier to acquire.	 It is most advantageous to locate several homes in relatively close proximity to take advantage of shared resources. However, other than in the most populous counties, clustered locations don't serve people in the more remote portion of the state. It will take some time to develop enough facilities to benefit from shared services. Potential land use issues or project delays if not zoned outright. Doesn't serve well those with high medical acuity. Relies on contracted services for specialty care, maintenance, etc. Does not include provisions for net zero. The nursing care home will have a significantly higher value than neighboring homes. Potentially impacting resale, if desired. 	\$ 43,231,000	\$ 5,263,85
Alternative #3: 30-Bedroom Nu	rsing Care Facility			
This option builds a new 30-bedroom skilled nursing facility.	1. Because of a larger staffing model, this option could serve residents with high medical acuity. 2. This option would support a higher level of direct employment of staff in lieu of contracted services. 3. Would create additional state jobs. 4. This option includes Net Zero Energy design and construction. 5. Assumes project is developed on state owned property in Clark County. Actual site is underdetermined. 6. If built in Clark County, maintenance could be shared with other state facilities nearby.	 The 30-bedroom option was categorized by many stakeholders and advocates as a large institutional setting. Breaking the model into three 10-bedroom modules still felt too big and institutional. This option provides a basis to compare construction and operating costs. None of the study participants recommended the 30-bed model. It was perceived as a traditional nursing facility, although it is smaller than what the state currently operates. Larger lot size required. More difficult to locate near services. Potential land use issues or project delays if not zoned outright. 	\$ 51,539,000	\$ 5,391,77

Site Analysis

The data in this section represents populations of adults with developmental disabilities in Residential Habilitation Centers and/ or having high medical acuity. The data shows that the highest concentration of these adults reside in King, Pierce, and Spokane Counties. This Predesign Study assumes these clients are most likely to benefit from a community nursing care home.



Site Analysis

With information provided by DSHS, the project team identified five locations with a high number of people with developmental disabilities that would be logical places for a Community-Based Nursing Care Home. We focused our efforts on locating hypothetical properties in the following regions to develop new homes:

- Spokane County
- Tri-Cities Area
- Snohomish County
- Clark and Cowlitz Counties
- Pierce County

Originally, we looked at undeveloped parcels, but the stakeholder group desires homes near existing community services and amenities. Also, it is preferable to have any potential site served by public water and sewer services, as the cleaning chemicals used in nursing facilities do not work well with septic systems. We analyzed recent sales in the five target areas to understand likely land acquisition costs.

We refined our search criteria to the following:

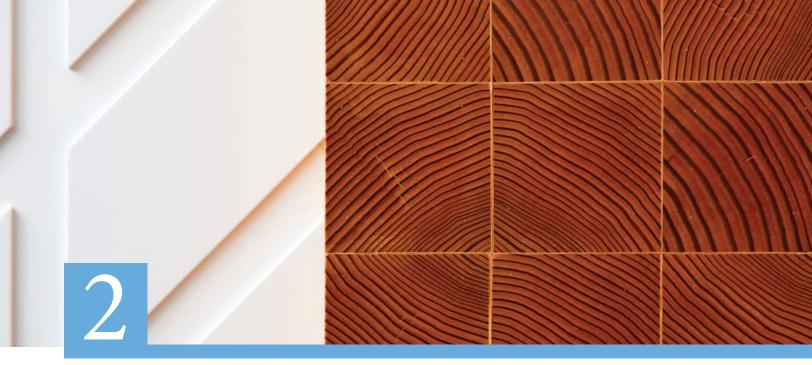
- 0.5 to 1.5 acre parcels near community amenities with public sewer
- Sites where tearing down an existing structure (manufactured home, mobile home, or poorly maintained house) is an option, providing the neighborhood character was an appropriate fit for the project.
- Residential areas, not commercial
- · Zoning- Areas where Adult Family Homes are permitted

Zoning Study

Residential structures occupied by persons with handicaps, as defined by 42 U.S.C. Sec. 3602, may not be treated differently than a similar residential structure occupied by a family. Cities and counties cannot enact or maintain any ordinance, development regulation, zoning regulation, or official control, policy or administrative practice that conflicts with this per state law under RCW 36.70A.410 and RCW 36.70.990.

Consequently, land use entitlements should not be required if the address is located within a zone where residential uses are allowed. Although state law supersedes local code, many codes are not up to date.

As a part of the property due-diligence, it is recommended that a meeting with the planners from the AHJ is held. This meeting will enable the planners to understand the project prior to purchase. Letters of support from providers and human services can assist the process.



Detail Analysis - Preferred Option statewide community nursing care homes

Room/Area	Requirements (if any)	Num.	SF	NSF
Resident Areas (Private)				1,745
Bedroom (Single occupant)	Window with min 19 SF	6	215	1,290
Bathroom (shared)	Sliding door with 3-6" min clear	3	75	225
Bathroom (with roll in shower and tub)	Toilet included	1	230	230
Resident Areas (Shared)				1,440
Entry		1	100	100
Living Room	Off of Dining	1	450	450
Kitchen		1	320	320
Dining	12 seats	1	270	270
Multi-purpose / Den Room	6-8 Meeting	1	225	225
Restroom		1	75	75
Season Porch	Outdoor	0	200	0
Covered Courtyard	Outdoor	0	485	O
Staff Administration				190
Administrative Office	At Main Entry	1	120	120
Public Toilet Room	Off main living areas	1	70	70
Support Areas				625
Storage	25 SF per bed	6	25	150
Emergency Food Storage		1	70	70
Medical Storage		1	80	80
Pantry		1	160	160
Resident Laundry		1	80	80
Laundry		1	85	85
Bldg Services - Unconditioned				1,000
Garage	2 bays; accessible van parking	1	730	730
Mechanical/FSR/Storage		1	130	130
Generator Room	Access from outside	1	80	80
Electrical/PV		1	60	60
Subtot	al House			5,000
	Garage			1,000
			Total	6,000

CNCH (Community Nursing Care Homes)

ENGINEERING SUMMARY

General

The 6-Bedroom home will be a single-story wood-frame building. The exterior siding will be hardi-plank with some brick veneer. The roofing will be asphalt shingles. Interior finishes will include solid surface countertops, sheet vinyl and carpet flooring. Walls and ceilings will be painted gypsum wallboard. Interior doors will be a stained birch veneer. Exterior doors will be painted metal.

The residents may be non-ambulatory, but will not require electrical life support for survival. This will be a long term care facility.

Electrical Service

As the intent of the facility is to locate in residential neighborhoods, incoming electrical service availability must be assumed to be residential style service at common residential voltage.

Incoming electrical service will be assumed to be 120/240V, 1 phase, 3 wire service with an overhead service drop from a pole mounted transformer. Some locations may allow for underground service. Currently a 600 Ampere service will be planned for.

Normal power will be distributed from an electrical room or service area inside the building and branch circuits will supply power to all electrical fixtures and devices from this room or area.

Essential Power

Per WAC 388-97, a permanently fixed in place, on- premises emergency power generator with on-site fuel supply is required to provide power for a minimum of (4) four hours.

Current planning is for a 150kVA, 120/240V, 1 Phase generator with a 72 hour fuel tank to allow for a longer outage time.

Though NEC 517 will allow for a single automatic transfer switch for Life Safety and Equipment Branch loads, an additional automatic transfer switch may be required for any optional loads. Two Automatic Transfer Switches will be planned for the facility.

The Life Safety Branch will provide power for Exit and Egress Lighting, Fire Alarm Systems, Communications Systems needed during emergency conditions, task lighting and power at the generator set location and generator accessory equipment required for proper operation of the generator.

The Equipment Branch will provide power for task lighting and select receptacles in Patient Care spaces and Staff spaces. Mechanical Systems for supply, return and exhaust ventilation, sump pumps, kitchen supply and exhaust, and heating for general patient rooms will be supplied power from this branch.

All other power on the emergency power systems will be considered optional connections to the Equipment Branch.

Uninterruptable Power Supplies (UPS) will be provided for select medical equipment, security systems, and all computers in the building.

Lighting

Lighting will be accomplished using LED lighting fixtures with features that allow dimming and in specific locations may be tunable for light color. Fixtures will be a mixture of recessed and surface mounting, located on wall and ceiling locations, and linear and round sources as best selected for the purpose and location.

Amber night lights will be provided in Patient bedrooms. Exterior lighting LED fixtures will be a mix of pedestrian oriented poles, bollards, wall sconces, and possibly parking site lighting pole mounted fixtures. All exterior lighting will be designed to blend in with the site location selected.

Lighting controls will vary from fully automatic lighting in public spaces using occupancy sensors and daylighting controls to (manual dimming) lighting control in Patient rooms. All controls will be localized to the area of use.

Wireless lighting controls may be provided and will be decided during building design.

Site lighting controls will be based on photocells and lighting intensity variation based on occupant sensing controls. Some controls will likely include time of day control.

Power Distribution

Individual building power panels will be provided to serve lighting, receptacles, HVAC connections, kitchen equipment connections, and miscellaneous equipment connections. All distribution panels will be of door-in-door construction.

All receptacles in the building will be tamper-resistant. Patient Rooms will have a minimum of four duplex receptacles (NFPA 99).

ENGINEERING SUMMARY

Telecommunications

The building will have a main distribution data/voice cabinet with locking door located in a conditioned space. Where possible DSHS Enterprise Technology, Telecommunications Infrastructure Standards will be followed. Cable will be based on CAT-6A cabling.

Patient Rooms will have telephone/data jacks.

Public area phones for patients will be determined during building design.

Wireless connectivity will be available to Residents, Staff, External Providers (Doctors), and Visitors over multiple wireless networks.

Telecommunications outlets will be provided at each telephone, computer, printer, monitor and every equipment reporting location, such as medical refrigerator alarms, if provided.

Audio / Visual

A Building Ambient Audio/Visual system may be provided for the building. Requirements will be determined during building design.

Television

Television (TV) outlets will be provided in Patient Rooms. Select public areas will be provided with TV outlets. TV outlets will be provided with cable TV (where available) and internet connections.

Fire Alarm

The Fire Alarm system will consist of a local main fire alarm panel centrally located in the building with a remote annunciator located at the front door.

Initiation devices will consist of smoke detectors in corridors, electrical rooms, mechanical rooms, and other sensitive areas where smoke detection warnings would be beneficial to the resident and staff population. Manual pull stations will be provided in the Staff Office. Duct Smoke Detectors will be provided if required. Heat Detectors will be provided in specific areas where having a high heat alarm signal before the sprinkler heads activate is advantageous, such as cooking and laundry areas. The sprinkler system will be fully monitored through the fire alarm system.

Notification appliances will consist of a coded alarm system and visual alerting devices (Chime/strobes). Voice alarm is not required but may be considered for use during design. Visual devices will need to be carefully coordinated so as to not be disruptive in the environment.

It is likely the fire alarm system will need to be closely coordinated with the local Fire Marshal's office to provide a system that provides for a safe environment and is the least disruptive to the residents and staff.

Security

Security will include intrusion detection, and access control.

Intrusion Detection will be provided at all exterior doors and will be used to monitor and report door activity and door position to the Staff Office. This type of system could be (but is not planned for) use in monitoring window activity of operable windows.

Access control using card or badge readers will be used at specific staff entry points to the building. DSHS Standard for Access Control utilizes Lenel S2 Access Control systems.

Site Design

The area around each building will be designed to provide adequate storm water treatment and/or retention. The topography will be modified as minimally as required to provide proper drainage and natural landscaping elements.

Heating, Ventilation and Air Conditioning

The mechanical system will be composed of a multi-head split system with an Energy Recovery Ventilator (ERV) for ventilation

Ceiling-mounted ductless cassette units will be utilized to provide space heating and cooling for the bedrooms and the office. A ducted fan coil will be utilized to provide space heating and cooling for the living/dining/kitchen/den. The ducted fan coil will be remotely located in the ceiling space or a mechanical platform for ease of access and serviceability. Each fan coil will be provided with a filter rack and MERV-13 filter. The heat pump unit(s) for the system will be outdoor, groundmounted units.

FNGINFFRING SUMMARY

There will be one ERV unit to serve the entire building. The ERV unit will be located in the ceiling space or in the garage. The ERV unit will have a plate heat exchanger to capture waste heat from the building to precondition the ventilation air, MERV-15 air filter on the outside air inlet, MERV-13 filter on the return inlet, and supply and exhaust fans with Electronically Commutated Motors (ECMs). There will be an electric heating coil downstream of the ERV supply. The ERV unit will deliver tempered ventilation air to each space. Return back to the ERV unit will be ducted to each space. Return from bedrooms will be through the bathrooms. ERV intake and exhaust will routed to louvers along the exterior wall or roof hoods.

The Mechanical and Electrical spaces will be provided with electric heaters for space heating and exhaust fans for ventilation. Both the unit heater and exhaust fan will be thermostatically controlled.

The multi-head split system will be controlled by the manufacturer provided thermostats. Each of the six bedrooms will be individually controlled through temperature sensors located within each zone. The ERV will operate continuously with a manual override switch accessible to occupants to allow unit to be turned off in the event there is unhealthy outdoor air conditions.

It is assumed that the kitchen will require a Type 1 hood.

Plumbing

The building will have one central heat pump water heating system to produce and store 140F hot water for service to the building fixtures. Water will be circulated between indoor tanks in the mechanical room and an outdoor, groundmounted heat pump. The indoor tanks will have electric resistance backup heat. A recirculation pump will keep hot water readily available at the fixtures. Individual point of use mixing valves will be provided at all lavatories, hand washing sinks, and shower heads to provide tempered water at 105F.

Lavatories will be provided with low flow 0.5 gpm non-aerator faucets with gooseneck spouts and wrist blade, single-lever controls. Water closets will be low flow 1.28 gallon per flush.

Shower heads will utilize 1.5 gpm flow cartridges.

Sanitary waste and vent piping above and below ground will be cast iron. All bathrooms, mechanical room, and fire riser room will be provided with floor drains. All floor drains will have trap primers installed.

The domestic water piping will consist of Type L copper or PEX for all above ground pipe and PVC Type C-900 for below ground cold water pipe. The domestic water meter and reduced pressure backflow assembly (RPBA) will be located on the site, exterior to the building.

The building will have a grease trap as required to serve the kitchen 3 compartment sink. The grease trap will be located directly below the sink in the kitchen.

Fire Protection

The facility will be required to be sprinkled with an automatic fire protection sprinkler system in accordance with NFPA 13. Exterior canopies and other areas subject to freezing will be provided with dry-type sprinklers or dry-pipe distribution system. All other areas will be served by a wet-pipe distribution system.

A mix of prescriptive and performance-based design specifications will be issued as part of the contract documents. The final design will be provided by the installing contractor.

All aspects of the fire protection systems will be in accordance with NFPA 13 and will comply with the requirements of the local jurisdiction.

Low-profile sprinklers with white finish are to be utilized for all areas throughout the building including Staff/Service areas. Sprinklers shall be centered within ceiling tiles (where applicable), and coordinated to avoid conflicts with light fixtures, HVAC grilles, etc. The double check valve assembly (DCVA) and fire department connection (FDC) will be located on the site, exterior to the building.

Delivery Method

DSHS has studied different delivery methods for this project. The following is a summary of options.

How the Project will be Managed within the Agency

The DSHS Office of Capital Programs (OCP) will provide project management to coordinate all phases of the project's siting, acquisition, design, and construction.

Design-Bid-Build Method

This is the traditional delivery method for public works projects. The designers develop the design documents and estimate for the project. The project is then bid to multiple general contractors.

This method usually achieves a lower first cost than other methods, but change orders are usually higher because the contractor has little time to familiarize themselves with the project. This creates a risk for the owner and tends to create opportunities for conflict over scope. There is also the risk that the low-bidder failed to account for a significant item, which can also put stress on the project. These challenges can be mitigated by high-quality bidding documents. This is an effective method for smaller projects under \$5 million, where the risk is easier to manage.

General Contractor / Construction Manager (GC/CM) Alternative Method

The GC/CM method selects the contractor during the schematic design phase, which allows the owner to have a direct contract with the design team and a direct contract with the contractor. The owner selects both the architect and contractor directly. The contractor is selected based on qualifications and overhead pricing. The contractor has an extended time period to plan construction and provide input into the design on constructability issues. This method promotes risk mitigation with active budget management by the contractor during the design phase. The contractor can provide feedback to design as it is being developed. Approval from the Capital Projects Advisory Review Board (CPARB) is required for this method.

Design-Build Alternative Method

This model creates a single contract for design and construction, with the design team under contract to the contractor. Using the progressive design build model, the contractor/design team is selected together at the beginning of the project based on qualifications, overhead pricing, and experience. The Design/Builder responds to a Request for Qualifications and participates in proprietary meetings and interviews. This method inserts the contractor into the process from the beginning and gives the owner greater price certainty as the project develops. A Maximum Allowable Construction Cost (MACC) is set at design development and adhered to for the duration of the project. This method promotes teamwork between the owner, contractor and architect. Approval from the Capital Projects Advisory Review Board (CPARB) is required for this method.

Recommendation

For this project, our design team recommends the traditional design-bid-build process. The 6-bedroom homes will be located throughout the state and it is unlikely that a single contractor would be able to build all five. This negates some of the benefits of a GC/CM approach and Design-Build because it would require multiple contractors during the design phases.

Planning Discussion

Water Rights and Water Availability

Water availability will be confirmed prior to property purchase.

Storm Water Requirements

Project design will comply with state and local storm water management requirements.

Easements and Setback Requirements

Research of easements and setback requirements will be completed prior to land acquisition.

Potential Issues with the Surrounding Neighborhood, during **Construction and Ongoing**

Pro-active outreach to the neighbors in advance of any land use process and construction will be part of the project outreach strategy. Multiple forms of contact including public meetings and informational mailers will be considered.

Potential Environmental Impacts

All efforts will be made to be good stewards of the local ecosystem through low impact development methods.

Parking and Access Issues, Including Improvements Required by **Local Ordinances, Local Road Impacts and Parking Demand**

The project use estimates the need for 6 parking stalls. This small number should not trigger significant road improvements.

Impact on Surroundings and Existing Development with **Construction Lay-Down Areas and Construction Phasing**

Construction limits and contractor use areas will be maintained on the project site.

Consistency with Applicable Long-Term Plans (such as the Thurston County and Capitol Campus Masterplans and Agency or Area Master Plans) as Required by RCW 43.88.110

The project team will work with the local jurisdictions to develop and coordinate any applicable long-term plans.

Other Compliance Requirements

This project will comply with Greenhouse Gas Emissions Reduction Policy as per RCW 70.235.070; Archeological and Cultural Resources as per Executive Order 05-05 and Section 106 of the National Historic Preservation Act of 1966; and planning under Chapter 36.70A RCW, as required by RCW 43.88.0301.

Information Required by RCW 43.88.0301(1) - Capital Budget Instructions—Additional Information—Staff Support from Office of Community Development

There will be preliminary communication with local agencies to coordinate this development. There will not be any local funds leveraged. Without a specific site, no study has yet been undertaken to determine environmental outcomes and the reduction of adverse environmental impacts.

Problems that Require Further Study. Evaluate Identified Problems to Establish Probable Costs and Risk.

Site Analysis

Further site investigation is needed. Topographic surveys, environmental reports, detailed utility analysis, and predevelopment meetings with authorities having jurisdiction will be conducted once final site selection is confirmed.

Land Use Approvals

A land use process is required at all sites considered. Implementation

Confirmation/Study of process to select private operators and confirm reimbursements are adequate to operate the program.

Significant or Distinguishable Components, Including Major **Equipment and ADA Requirements in Excess of Existing Code**

There are no significant ADA requirements in excess of existing codes that are not already provided for. The facility will be welcoming and accommodating to all physical capabilities. This is not a medical facility servicing significant physical health needs; those patients will be served in an alternate setting.

Planned Technology Infrastructure and Other Related IT **Investments that Affect the Building Plans**

IT space will be provided within the facility.

Planned Commissioning to Ensure Systems Function as Designed

Project will be commissioned prior to occupancy ensuring electrical, mechanical systems, and building envelope will function as designed.

Future Phases or Other Facilities that will Affect this Project

No future phases are expected on any particular site, however, it is likely that the construction of each house will be considered a new phase. For the purpose of this predesign, it is reasonable to expect that the (5) houses will be constructed in five phases across the State of Washington.

Identify when the Local Jurisdiction will be Contacted and Whether Community Stakeholder Meetings are part of the **Process**

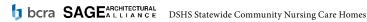
Once a site has been selected and funding has been allocated, the project team will engage with the local community to partner with the local authorities and will comply with all required

Proposed Funding Source

Identify the Fund Sources and Expected Receipt of the Funds The funding is expected to be provided through the State **Building Construction Account.**

If Alternatively Financed, such as through a COP, Provide the Projected Debt Service and Fund Source. Include the **Assumptions used for Calculating Finance Terms and Interest** Rates

Not Applicable.





Project Schedule and Budget

STATEWIDE COMMUNITY NURSING CARE HOMES

Project Cost Assumptions

The Construction Costs are based on today's dollars with a twenty percent construction contingency and five percent inflation contingency. This is in addition to the five percent contingency and 3.28 inflation rate that is factored in the C-100. The project will be delivered using the traditional Design-Bid-Build method.

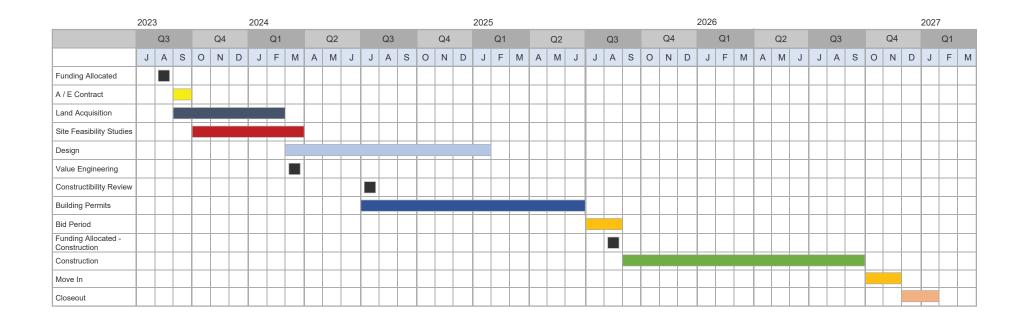
Alternate 2 building sites are assumed to be five individual 1/2-acre sites located throughout the state. The site for Alternate 3 is assumed to be on a undetermined site in unincorporated Clark County.

Buildings are assumed to be constructed of single-story wood framed walls and roofs, concrete slab on grade, with a mix of Hardi-panel siding and brick veneer. The roofing is either composition asphalt shingles or standing seam metal roofing.

Furniture and Equipment

A budget of \$125,000 has been established per home. This would includes beds, bedroom and common area furniture, kitchen equipment, and other miscellaneous items not attached permanently to the building structure.

Schedule



STATE OF WASHINGTON **AGENCY / INSTITUTION PROJECT COST SUMMARY** Updated June 2021 Department of Social and Health Services Agency Statewide Community Nursing Care Homes Predesign Project Name 92000042 **OFM Project Number**

Contact Information				
Name Jim Wolch BCRA/ARC Cost				
Phone Number	253-627-4367			
Email	jwolch@bcradesign.com			

Statistics					
Gross Square Feet	30,000	MACC per Square Foot	\$849		
Usable Square Feet	25,000	Escalated MACC per Square Foot	\$968		
Space Efficiency	83.3%	A/E Fee Class	В		
Construction Type	Nursing homes	A/E Fee Percentage	6.92%		
Remodel	No	Projected Life of Asset (Years)			
Additional Project Details					
Alternative Public Works Project	No	Art Requirement Applies	Yes		
Inflation Rate	3.28%	Higher Ed Institution	No		
Sales Tax Rate %	10.30%	Location Used for Tax Rate	Tacoma		
Contingency Rate 5%					
Base Month	March-22	OFM UFI# (from FPMT, if available)			
Project Administered By	Agency				

Schedule					
Predesign Start	September-21	Predesign End	April-22		
Design Start	September-23	Design End	January-25		
Construction Start	September-25	Construction End	December-26		
Construction Duration 15 Months					

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Project Cost Estimate					
Total Project	\$38,387,227	Total Project Escalated	\$43,230,925		
		Rounded Escalated Total	\$43,231,000		

STATE OF WASHINGTON AGENCY / INSTITUTION PROJECT COST SUMMARY Updated June 2021				
Agency	Department of Social and Health Services			
Project Name	Statewide Community Nursing Care Homes Predesign			
OFM Project Number	92000042			

Cost Estimate Summary							
	Acquisition						
Acquisition Subtotal \$2,275,000 Acquisition Subtotal Escalated \$2,275,000							
	. , , ,	·	. , ,				
	Consult	ant Services					
Predesign Services	\$456,560						
A/E Basic Design Services	\$1,276,385						
Extra Services	\$925,000						
Other Services	\$598,448						
Design Services Contingency	\$262,820						
Consultant Services Subtotal	\$3,519,213	Consultant Services Subtotal Escalated	\$3,824,544				
	Cons	struction					
Construction Contingencies	\$1,272,938	Construction Contingencies Escalated	\$1,454,459				
Maximum Allowable Construction		Maximum Allowable Construction Cost	Ψ1, 434,433				
Cost (MACC)	\$25,458,760	(MACC) Escalated	\$29,032,271				
Sales Tax	\$2,753,365	Sales Tax Escalated	\$3,140,134				
Construction Subtotal	\$29,485,063	Construction Subtotal Escalated	\$33,626,864				
Constitution Suprotai	Ų23) 103)003	Constitution Subtotal Essaluted	ψ 33 ,020,00 i				
	Equ	ipment					
Equipment	\$1,108,500						
Sales Tax	\$114,176						
Non-Taxable Items	\$0						
Equipment Subtotal	\$1,222,676	Equipment Subtotal Escalated	\$1,397,031				
		rtwork					
Artwork Subtotal	\$215,079	Artwork Subtotal Escalated	\$215,079				
	Agoney Droio	ct Administration					
Agency Project Administration		et Administration					
Subtotal	\$970,197						
DES Additional Services Subtotal	\$0						
Other Project Admin Costs	\$0 \$0						
Other Project Admin Costs	Ş0 -						
Project Administration Subtotal	\$970,197	Project Administation Subtotal Escalated	\$1,108,547				
L							
	Oth	er Costs					
Other Costs Subtotal	\$700,000	Other Costs Subtotal Escalated	\$783,860				
	Project C	ost Estimate					
T. 10 1 1	400 007 007						

Project Cost Estimate					
Total Project	\$38,387,227	Total Project Escalated	\$43,230,925		
	\$43,231,000				

C-100 - Alternative #2: 6-Bedroom Home

STATE OF WASHINGTON AGENCY / INSTITUTION PROJECT COST SUMMARY Updated June 2021				
Agency	Department of Social and Health Services			
Project Name	Statewide Community Nursing Care Homes Predesign			
OFM Project Number	92000042			

Cost Estimate Details

Acquisition Costs					
Item	Base Amount	Escalation Factor	Escalated Cost	Notes	
Purchase/Lease	\$2,000,000				
Appraisal and Closing	\$25,000				
Right of Way					
Demolition	\$250,000				
Pre-Site Development					
Other					
Insert Row Here					
ACQUISITION TOTAL	\$2,275,000	NA	\$2,275,000		

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Cost Estimate Details

Consultant Services								
Item	Base Amount	Escalation	Escalated Cost	Notes				
	base Amount	Factor	Escalateu Cost	Notes				
1) Pre-Schematic Design Services								
Programming/Site Analysis								
Environmental Analysis	\$20,000							
Predesign Study	\$286,560							
Other	\$150,000			Includes feasibility study of potential sites post appropriation. This includes preliminary layout, land use code analyisis, pre-app meeting and others studies prior to land purchase or design start.				
Insert Row Here								
Sub TOTAL	\$456,560	1.0497	\$479,252	Escalated to Design Start				
2) Complement in 2								
2) Construction Documents	64 276 205			COO/ -f A/E D!- C:				
A/E Basic Design Services	\$1,276,385			69% of A/E Basic Services				
Other								
Insert Row Here	Ć4 27C 20E	1.0726	Ć1 2C0 0F1	Feedlated to Mid Design				
Sub TOTAL	\$1,276,385	1.0726	\$1,369,051	Escalated to Mid-Design				
3) Extra Services								
Civil Design (Above Basic Svcs)	\$250,000							
Geotechnical Investigation	\$150,000							
Commissioning	\$100,000							
Site Survey	\$100,000							
Testing	\$100,000							
LEED Services	\$0							
Voice/Data Consultant	\$25,000							
Value Engineering	\$25,000							
Constructability Review	\$25,000							
Environmental Mitigation (EIS)	\$0							
Landscape Consultant	\$100,000							
Septic system Design	\$50,000			If unable to locate site with sewer				
Insert Row Here								
Sub TOTAL	\$925,000	1.0726	\$992,155	Escalated to Mid-Design				
4) Other Services								
Bid/Construction/Closeout	\$573,448			31% of A/E Basic Services				
HVAC Balancing	\$25,000							
Staffing								
Other								
Insert Row Here								
Sub TOTAL	\$598,448	1.1426	\$683,788	Escalated to Mid-Const.				
5) Design Services Contingency								
Design Services Contingency	\$162,820							

C-100 - Alternative #2: 6-Bedroom Home

Other	\$100,000			Additional services to cover extended project duration, potentially 4 years of services.
Insert Row Here				
Sub TOTAL	\$262,820	1.1426	\$300,298	Escalated to Mid-Const.
CONSULTANT SERVICES TOTAL	\$3,519,213		\$3,824,544	

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Cost Estimate Details

Construction Contracts								
Item	Base Amount	Escalation Factor	Escalated Cost	Notes				
1) Site Work								
G10 - Site Preparation	\$411,215							
G20 - Site Improvements	\$617,855							
G30 - Site Mechanical Utilities	\$404,095							
G40 - Site Electrical Utilities	\$862,835							
G60 - Other Site Construction								
Other				Includes 5 sites				
Insert Row Here								
Sub TOTAL	\$2,296,000	1.1198	\$2,571,061					
2) Palata d Project Conta								
2) Related Project Costs	¢200.000							
Offsite Improvements	\$200,000							
City Utilities Relocation								
Parking Mitigation								
Stormwater Retention/Detention								
Other				Includes 5 sites				
Insert Row Here	d200 000	1 1100						
Sub TOTAL	\$200,000	1.1198	\$223,960					
3) Facility Construction								
A10 - Foundations	\$854,125							
A20 - Basement Construction	\$0							
B10 - Superstructure	\$1,583,665							
B20 - Exterior Closure	\$2,614,745							
B30 - Roofing	\$1,106,965							
C10 - Interior Construction	\$1,412,815							
C20 - Stairs	\$0							
C30 - Interior Finishes	\$912,000							
D10 - Conveying	\$0							
D20 - Plumbing Systems	\$675,000							
D30 - HVAC Systems	\$1,400,000							
D40 - Fire Protection Systems	\$203,775							
D50 - Electrical Systems	\$2,133,050							
F10 - Special Construction	, ,,===,==							
F20 - Selective Demolition								
General Conditions	\$1,825,700							
	. ,			Includes 20% estimating				
.	46.000.165			contingency plus 5%				
Estimating Contingency	\$6,888,480			escalation to start of				
				construction				
Fees & Insurances	\$1,352,440							
Sub TOTAL	\$22,962,760	1.1426	\$26,237,250					
4) Maximum Allowable Construction Co		ı		i				
MACC Sub TOTAL	\$25,458,760		\$29,032,271					

C-100 - Alternative #2: 6-Bedroom Home

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7) Construction Continuous				
7) Construction Contingency	¢1 272 020			
Allowance for Change Orders Other	\$1,272,938			
Insert Row Here				
Sub TOTAL	\$1,272,938	1.1426	\$1,454,459	
Sub TOTAL	71,272,330	1.1720	71,734,733	
8) Non-Taxable Items				
Other				
Insert Row Here				
Sub TOTAL	\$0	1.1426	\$0	
Sales Tax				
Sub TOTAL	\$2,753,365		\$3,140,134	
CONSTRUCTION CONTRACTS TOTAL	\$29,485,063		\$33,626,864	

	Equipment						
Item	Base Amount	Escalation Factor	Escalated Cost	Notes			
E10 - Equipment	\$191,000						
E20 - Furnishings	\$292,500						
F10 - Special Construction							
Other	\$625,000			Specialized Furniture, Beds, Desks, Technology for 5 Houses			
Insert Row Here							
Sub TOTAL	\$1,108,500	1.1426	\$1,266,573				
1) Non Taxable Items							
Other							
Insert Row Here							
Sub TOTAL	\$0	1.1426	\$0				
Sales Tax Sub TOTAL	\$114,176		\$130,458				
EQUIPMENT TOTAL	\$1,222,676		\$1,397,031				

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Cost Estimate Details

Artwork					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Project Artwork	\$215,079				0.5% of total project cost for new construction
Higher Ed Artwork	\$0				0.5% of total project cost for new and renewal construction
Other					
Insert Row Here					
ARTWORK TOTAL	\$215,079		NA	\$215,079	

Project Management					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Agency Project Management	\$970,197				
Additional Services					
Other					
Insert Row Here					
PROJECT MANAGEMENT TOTAL	\$970,197		1.1426	\$1,108,547	

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Cost Estimate Details

Other Costs					
ltem	Base Amount		Escalation	Escalated Cost	Notes
item	base Amount		Factor	Listalatea Cost	Notes
Mitigation Costs					
Hazardous Material	¢400.000				
Remediation/Removal	\$100,000				
Historic and Archeological Mitigation					
Utility Connection fees	\$250,000				Utility allowance for five sites
Permit Fees	\$350,000				Permits for five sites
OTHER COSTS TOTAL	\$700,000		1.1198	\$783,860	

C-100(2021)				
Additional Notes				
Tab A. Acquisition				
Insert Row Here				
Tab B. Consultant Services				
Tab B. Consultant Services				
Insert Row Here				
Tab C. Construction Contracts				
Insert Row Here				
Tab D. Equipment				
Tab D. Equipment				
Insert Row Here				
Tab E. Artwork				
Insert Row Here				
Table Burket Management				
Tab F. Project Management				
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indere now here				
Tab G. Other Costs				
Insert Row Here				

STATE OF WASHINGTON AGENCY / INSTITUTION PROJECT COST SUMMARY Updated June 2021				
Agency	Department of Social Health Services			
Project Name	Project Name Statewide Community Nursing Care Homes Predesign			
OFM Project Number	92000042			

Contact Information				
Name	Jim Wolch BCRA/ARC Cost			
Phone Number	253-627-4367			
Email	<u>iwolch@bcradesign.com</u>			

Statistics						
Gross Square Feet	28,000	MACC per Square Foot	\$1,153			
Usable Square Feet	22,000	Escalated MACC per Square Foot	\$1,313			
Space Efficiency	78.6%	A/E Fee Class	В			
Construction Type	Nursing homes	A/E Fee Percentage	6.63%			
Remodel	No	Projected Life of Asset (Years)				
	Additional Project Details					
Alternative Public Works Project	No	Art Requirement Applies	Yes			
Inflation Rate	3.28%	Higher Ed Institution	No			
Sales Tax Rate %	7.70%	Location Used for Tax Rate	Clark County			
Contingency Rate	5%					
Base Month	March-22	OFM UFI# (from FPMT, if available)				
Project Administered By	Agency					

Schedule				
Predesign Start	September-21	Predesign End	April-22	
Design Start	September-23	Design End	January-25	
Construction Start	September-25	Construction End	December-26	
Construction Duration	15 Months			

Project Cost Estimate				
Total Project	\$45,613,519	Total Project Escalated	\$51,538,792	
		Rounded Escalated Total	\$51,539,000	

STATE OF WASHINGTON AGENCY / INSTITUTION PROJECT COST SUMMARY Updated June 2021				
Agency	Department of Social Health Services			
Project Name Statewide Community Nursing Care Homes Predesign				
OFM Project Number	92000042			

Cost Estimate Summary

_		quisition	
Acquisition Subtotal	\$1,075,000	Acquisition Subtotal Escalated	\$1,075,000
	Consult	ant Services	
Predesign Services	\$356,560	lant Services	
A/E Basic Design Services	\$1,551,243		
Extra Services	\$1,000,000		
Other Services	\$721,935		
Design Services Contingency	\$281,487		
Consultant Services Subtotal	\$3,911,225	Consultant Services Subtotal Escalated	\$4,257,257
	•		
	Con	struction	
Construction Contingencies	\$1,614,723	Construction Contingencies Escalated	\$1,844,983
Maximum Allowable Construction		Maximum Allowable Construction Cost	
Cost (MACC)	\$32,294,454	(MACC) Escalated	\$36,763,002
Sales Tax	\$2,611,007	Sales Tax Escalated	\$2,972,815
Construction Subtotal	\$36,520,183	Construction Subtotal Escalated	\$41,580,800
	_		
		uipment	
Equipment	\$1,351,400		
Sales Tax	\$104,058		
Non-Taxable Items	\$0		4
Equipment Subtotal	\$1,455,458	Equipment Subtotal Escalated	\$1,663,007
	A	rtwork	
Artwork Subtotal	\$256,412	Artwork Subtotal Escalated	\$256,412
	_		
_	Agency Proje	ect Administration	
Agency Project Administration	\$1,058,115		
Subtotal			
DES Additional Services Subtotal	\$0		
Other Project Admin Costs	\$0		
Project Administration Subtotal	\$1,058,115	Project Administation Subtotal Escalated	\$1,209,003
	Oth	ner Costs	
Other Costs Subtotal	\$1,337,125	Other Costs Subtotal Escalated	\$1,497,313
·			. , ,-

Project Cost Estimate					
Total Project					
Rounded Escalated Total \$51,539,000					

Acquisition Costs					
Item	Base Amount	Escalation Factor	Escalated Cost	Notes	
Purchase/Lease	\$1,000,000				
Appraisal and Closing	\$25,000				
Right of Way					
Demolition	\$50,000				
Pre-Site Development					
Other	\$0				
Insert Row Here					
ACQUISITION TOTAL	\$1,075,000	NA	\$1,075,000		

Consultant Services					
Item	Base Amount	Escalation	Escalated Cost	Notes	
	base Amount	Factor	Escalated Cost	Notes	
1) Pre-Schematic Design Services					
Programming/Site Analysis					
Environmental Analysis	\$20,000				
Predesign Study	\$286,560			[
Other	\$50,000			Feasibility Study prior to Land purchase	
Insert Row Here					
Sub TOTAL	\$356,560	1.0497	\$374,282	Escalated to Design Start	
2) Construction Documents					
A/E Basic Design Services	\$1,551,243			69% of A/E Basic Services	
Other					
Insert Row Here					
Sub TOTAL	\$1,551,243	1.0726	\$1,663,864	Escalated to Mid-Design	
2) Satura Compilera					
3) Extra Services Civil Design (Above Basic Svcs)	¢250,000				
Geotechnical Investigation	\$250,000				
Commissioning	\$150,000 \$100,000				
Site Survey	\$75,000				
Testing	\$100,000				
LEED Services	\$100,000				
Voice/Data Consultant	\$25,000				
Value Engineering	\$25,000				
Constructability Review	\$25,000				
Environmental Mitigation (EIS)	\$0				
Landscape Consultant	\$100,000				
Wetlands Consultant	\$50,000			Potentially needed on future site	
Land Use Planning	\$100,000			Budget for CUP approval	
Sub TOTAL	\$1,000,000	1.0726	\$1,072,600	Escalated to Mid-Design	
	<u> </u>				
4) Other Services					
Bid/Construction/Closeout	\$696,935			31% of A/E Basic Services	
HVAC Balancing	\$25,000				
Staffing					
Other					
Insert Row Here					
Sub TOTAL	\$721,935	1.1426	\$824,884	Escalated to Mid-Const.	
5) Design Services Contingency	4.4				
Design Services Contingency	\$181,487			Additional Co.	
Other	\$100,000			Additional Services for four	
In court Down II				year project duration.	
Insert Row Here	6204 467	1.1126	6224 627	Feedleted to Mid Court	
Sub TOTAL	\$281,487	1.1426	\$321,627	Escalated to Mid-Const.	
CONCLUTANT CERVICES TOTAL	62.044.22=1		64.357.357		
CONSULTANT SERVICES TOTAL	\$3,911,225		\$4,257,257		

Construction Contracts					
ltem	Base Amount	Escalation Factor	Escalated Cost	Notes	
1) Site Work					
G10 - Site Preparation	\$700,000				
G20 - Site Improvements	\$683,000				
G30 - Site Mechanical Utilities	\$450,000				
G40 - Site Electrical Utilities	\$750,000				
G60 - Other Site Construction					
Other					
Insert Row Here					
Sub TOTAL	\$2,583,000	1.1198	\$2,892,444		
2) Related Project Costs					
Offsite Improvements	\$1,500,000				
City Utilities Relocation					
Parking Mitigation					
Stormwater Retention/Detention				-	
Net zero	\$1,910,120			Frontage improvements	
				included in off-site	
Insert Row Here	d2 442 422	4 4400	42.040.650		
Sub TOTAL	\$3,410,120	1.1198	\$3,818,653		
3) Facility Construction					
A10 - Foundations	\$864,537				
A20 - Basement Construction	\$804,337				
B10 - Superstructure	\$1,490,660				
B20 - Exterior Closure	\$2,476,322				
B30 - Roofing	\$1,152,485				
C10 - Interior Construction	\$1,132,483				
C20 - Stairs	\$0				
C30 - Interior Finishes	\$1,041,175				
D10 - Conveying	\$0				
D20 - Plumbing Systems	\$1,316,000				
D30 - HVAC Systems	\$1,921,961				
D40 - Fire Protection Systems	\$236,178				
D50 - Electrical Systems	\$2,511,880				
F10 - Special Construction	+ -/2/2 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 				
F20 - Selective Demolition					
General Conditions	\$2,126,615				
Estimating Contingency	\$8,023,853				
Fee & Insurances	\$1,575,353				
Sub TOTAL	\$26,301,334	1.1426	\$30,051,905		
4) Maximum Allowable Construction Co	ost				
MACC Sub TOTAL	\$32,294,454		\$36,763,002		
	. , ,		. , , , , , , , , , , , , , , , , , , ,	-	

	This Section is	Intentionally Left	Blank	
7) Construction Contingency				
Allowance for Change Orders	\$1,614,723			
Other				
Insert Row Here				
Sub TOTAL	\$1,614,723	1.1426	\$1,844,983	
8) Non-Taxable Items				
Other				
Insert Row Here				
Sub TOTAL	\$0	1.1426	\$0	
Sales Tax				
Sub TOTAL	\$2,611,007		\$2,972,815	
SUB TOTAL	\$2,011,007		\$2,312,8 1 3	
CONSTRUCTION CONTRACTS TOTAL	\$36,520,183		\$41,580,800	

Equipment					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
E10 - Equipment	\$327,400				
E20 - Furnishings	\$399,000				
F10 - Special Construction					
Other	\$625,000				Furniture, Beds, Desks, Tables
Insert Row Here					
Sub TOTAL	\$1,351,400		1.1426	\$1,544,110	
1) Non Taxable Items					
Other					
Insert Row Here					
Sub TOTAL	\$0		1.1426	\$0	
		•			
Sales Tax			_		
Sub TOTAL	\$104,058			\$118,897	
EQUIPMENT TOTAL	\$1,455,458			\$1,663,007	

Green cells must be filled in by user

Cost Estimate Details

Artwork						
ltem	Base Amount	Escalation Factor	Escalated Cost	Notes		
Project Artwork	\$256,412			0.5% of total project cost for new construction		
Higher Ed Artwork	\$0			0.5% of total project cost for new and renewal construction		
Other						
Insert Row Here						
ARTWORK TOTAL	\$256,412	NA	\$256,412			

Project Management					
ltem	Base Amount	Escalati Facto	Escalated Cost	Notes	
Agency Project Management	\$1,058,115				
Additional Services					
Other					
Insert Row Here					
PROJECT MANAGEMENT TOTAL	\$1,058,115	1.142	\$1,209,003	3	

Green cells must be filled in by user

Cost Estimate Details

Other Costs						
ltem	Base Amount		Escalation Factor	Escalated Cost	Notes	
Mitigation Costs	\$0					
Hazardous Material Remediation/Removal	\$100,000					
Historic and Archeological Mitigation						
Utility connection fees	\$400,000				Utility connection fees	
Permit Fees	\$837,125		_		Permit plus impact fees	
OTHER COSTS TOTAL	\$1,337,125		1.1198	\$1,497,313		

C-100(2021)					
Additional Notes					
Tab A. Acquisition					
Insert Row Here					
Tab B. Consultant Services					
Tab B. Consultant Services					
Insert Row Here					
Tab C. Construction Contracts					
Insert Row Here					
insert row here					
Tab D. Equipment					
Insert Row Here					
Tab E. Artwork					
Insert Row Here					
Instit Now Here					
Tab F. Project Management					
Insert Row Here					
Tab G. Other Costs					
Incort Pay Hora					

Staffing Plan Analysis - Overview

Overview

This Healthcare Staffing Services Plan outlines the staffing operations expenses for the Department of Social & Health Services (DSHS) Statewide Community Nursing Care Homes Predesign (Project Number 2022-419). Two alternatives were considered as part of the predesign: 1) Five 6-Bedroom Community Nursing Care Homes (CNCH) and 2) One 30-Bedroom Facility. The objective was to compare the relative costs of several smaller versus one larger facility. For the purposes of this analysis, the new model of several smaller homes is called the CNCH model.

Project Background

The Community Nursing Care Home (CNCH) model is a response to the identified need to offer the ID/DD community more home-like, longer term, person-centered living options that are integrated in the community. It is designed to serve people with ID/DD who also have high medical acuity and require ongoing or intermittent nursing care, rehabilitation care, and assistance with activities of daily living (ADLs). The goal of the proposed staffing plan is to offer the support needed to help residents manage short-term and chronic medical conditions through collaborative support from their community healthcare providers and in-home care.

The 6-bed CNCH model is informed by feedback from the DSHS Community Nursing Care Home Predesign Project Workgroup, review of the existing ID/DD models in Washington state, and review of relevant literature and reports. Additionally, members of the project team met with leadership from East Tennessee Homes and Oregon's "24-Hour Residential Programs", managed by the nonprofit Community Access Services. Both states have already transitioned to smaller, community-based homes and provided insight on replicable best practices. The CNCH model is similar to an Adult Family Home (AFH), or State Operated Living Alternative (SOLA), but does not currently exist in Washington state.

The 30-bed model is based on existing Washington Residential Habilitation Centers and serves as a comparison between the current facilities available to the ID/DD population and the proposed alternative CNCH model.

Staffing & Operations Costs

The following table provides an overview of the Staffing & Operations Costs for the two options. These projections include salaries and related benefits as well as food and operational costs (i.e. maintenance, utilities and housekeeping). The two options have similar cost profiles.

Summary of Staffing & Operations Costs

	CNCH Model (Five 6-Bedroom Homes)	30-Bed Facility
Total Residents	30	30
Total Project Net Present Value (5 Biennia)	\$ 45,941,130	\$ 46,553,475
Annual Cost/Resident (2022)	\$ 169,228	\$ 171,404
Daily Rate/Resident (2022)	\$ 464	\$ 470

Total FTEs & FTEs Per Resident

The table below is an overview of the total number of FTEs needed for both models, and FTEs per resident, broken down by category. Nursing & Other Clinical FTEs includes positions such as nursing, certified nursing assistants or attendant counselors, physical or speech therapists and other clinical roles. Admin & Support FTEs include management and other indirect care positions. Please see appendices for more details.

Summary of FTEs

	CNCH Model (Five 6-Bedroom Homes)	30-Bed Facility
Total Residents	30	30
Nursing & Other Clinical FTEs	69	37
Nursing & Other Clinical FTE per Patient	2.3	1.2
Administration & Support FTEs	6.3	9.5

Comparison Analysis

Based on the analysis in this report and findings from the workgroup and from other states, the CNCH presents as a model that will offer the flexibility to meet individual care needs through a robust staffing plan focused on maximizing independence. It also presents as a cost-effective option for individuals who want to live in a smaller community setting.

The estimated annual cost per resident for the 30-bed nursing facility model of \$171,404 is similar to the cost per resident for the 6-Bed CNCH model of \$169,228. However, the staffing ratios between the models are significantly different due to the differences in care team composition. The 30-bed model includes more medical personnel, clinical leadership, environmental and food services and has higher administrative costs. Similar to the existing models in Oregon and East Tennessee, the 6-bed CNCH model offers a higher staff to patient ratio without increasing costs by utilizing more certified nursing assistants/attendant counselors. In addition to providing medical support under the supervision of a nurse or physician, certified nursing assistants/attendant counselors are typically a flexible role that can provide additional services such as assistance with activities of daily living, food preparation, housekeeping, and facilitating recreational activities.

See Appendices

- **Detailed Staffing Plan**
- **Project Staffing & Operations Budget** F.
- G. Staffing Plan: 6-Bed Home
- H. Staffing & Salaries Projections: 6-Bed Home
- Staffing Plan: 30-Bed Home J.
- Staffing & Salaries Projections: 30-Bed Home



Appendices

- A. Pre-Design Checklist
- B. Life Cycle Cost Model
- C. 30-Bed Facility - Programming
- D. 30-Bed Facility - Engineering Summary
- E. Detailed Staffing Plan
- F. Project Staffing & Operations Budget
- G. Staffing Plan: 6-Bed Home
- Н. Staffing & Salaries Projections: 6-Bed Home
- J. Staffing Plan: 30-Bed Home
- K. Staffing & Salaries Projections: 30-Bed Home
- Cost Estimate: 6-Bed Facility L.
- Cost Estimate: 30-Bed Facility M.



Pre-Design Checklist

APPENDIX 1: PREDESIGN CHECKLIST AND OUTLINE

A predesign should include the content detailed here. OFM will approve limited scope predesigns on a case-by-case basis.

Executive summary

•	Problem	statement,	opportunity	or program	requirement
---	---------	------------	-------------	------------	-------------

- Identify the problem, opportunity or program requirement that the project addresses and how it will be accomplished.
- Identify and explain the statutory or other requirements that drive the project's operational programs and how these affect the need for space, location or physical accommodations. Include anticipated caseload projections (growth or decline) and assumptions, if applicable.
- Explain the connection between the agency's mission, goals and objectives; statutory requirements; and the problem, opportunity or program requirements.
- Describe in general terms what is needed to solve the problem.
- ☐ Include any relevant history of the project, including previous predesigns or budget funding requests that did not go forward to design or construction.

Analysis of alternatives (including the preferred alternative)

- Describe all alternatives that were considered, including the preferred alternative. Include:
 - A no action alternative.
 - Advantages and disadvantages of each alternative. Please include a high-level summary table with your analysis that compares the alternatives, including the anticipated cost for each alternative.
 - Cost estimates for each alternative:
 - Provide enough information so decision makers have a general understanding of the costs.
 - ☐ Complete OFM's Life Cycle Cost Model (RCW 39.35B.050).
 - Schedule estimates for each alternative. Estimate the start, midpoint and completion dates.

Detailed analysis of preferred alternative

- ☑ Nature of space how much of the proposed space will be used for what purpose (i.e., office, lab, conference, classroom, etc.)
- ☑ Occupancy numbers.
- ☐ Basic configuration of the building, including square footage and the number of floors.
- Space needs assessment. Identify the guidelines used.
- ☑ Site analysis:
 - ☑ Identify site studies that are completed or under way and summarize their results.
- N/A Location.

- ☑ Building footprint and its relationship to adjacent facilities and site features. Provide aerial view, sketches of the building site and basic floorplans.
- ☑ Water rights and water availability.
- ☑ Stormwater requirements.
- ☑ Ownership of the site, easements, and any acquisition issues.
- ✓ Property setback requirements.
- Dotential issues with the surrounding neighborhood, during construction and ongoing.
- Utility extension or relocation issues.
- ✓ Potential environmental impacts.
- Parking and access issues, including improvements required by local ordinances, local road impacts and parking demand.
- ☑ Impact on surroundings and existing development with construction lay-down areas and construction phasing.
- Consistency with applicable long-term plans (such as the Thurston County and Capitol campus master plans and agency or area master plans) as required by RCW 43.88.110.
- ☑ Consistency with other laws and regulations:
 - ☐ High-performance public buildings (Chapter <u>39.35D</u> RCW).
 - ☑ State efficiency and environmental performance, if applicable (Executive Order <u>20-01</u>).
 - ☑ State energy standards for clean buildings (RCW 19.27A.210).
 - Compliance with required vehicle charging capability for new buildings that provide on-site parking (RCW 19.27.540).
 - \square Greenhouse gas emissions reduction policy (RCW $\underline{70.235.070}$).
 - Archeological and cultural resources (Executive Order <u>05-05</u> and <u>Section 106</u> of the National Historic Preservation Act of 1966). If mitigation is anticipated, please note this in the predesign with narrative about how mitigation is worked into the project schedule and budget.
 - Americans with Disabilities Act (ADA) implementation (Executive Order <u>96-04</u>).
 - Compliance with planning under Chapter <u>36.70A</u> RCW, as required by RCW 43.88.0301.
 - ✓ Information required by RCW $\underline{43.88.0301}(1)$.
 - ☑ Other codes or regulations.
- Identify problems that require further study. Evaluate identified problems to establish probable costs and risk.
- ☐ Identify significant or distinguishable components, including major equipment and ADA requirements in excess of existing code.
- Identify planned technology infrastructure and other related IT investments that affect the building plans.
- Identify any site-related and/or physical security measures for the project.
- Describe planned commissioning to ensure systems function as designed.
- Describe any future phases or other facilities that will affect this project.
- ☐ Provide a comparative discussion of the pros and cons of the project delivery methods considered for this project, and offer a recommendation of proposed procurement method for the preferred alternative. The proposed method of project delivery must be justified.

/	escribe how the project will be managed within the agency.
☑ Scl	nedule.
☑	Provide a high-level milestone schedule for the project, including key dates for budget approval, design, bid, acquisition, construction, equipment installation, testing, occupancy and full operation.
ಠ	Incorporate value-engineering analysis and constructability review into the project schedule, as required by RCW <u>43.88.110(5)(c)</u> .
	Describe factors that may delay the project schedule.
	Describe the permitting or local government ordinances or neighborhood issues (such as location or parking compatibility) that could affect the schedule.
	☑ Identify when the local jurisdiction will be contacted and whether community stakeholder meetings are a part of the process.
■ Pro	eject budget analysis for the preferred alternative
,	Cost estimate.
	Major assumptions used in preparing the cost estimate.
	Summary table of Uniformat Level II cost estimates.
	\checkmark The <u>C-100</u> .
\checkmark	Proposed funding.
	☐ Identify the fund sources and expected receipt of the funds.
	If alternatively financed, such as through a COP, provide the projected debt service and fund source. Include the assumptions used for calculating finance terms and interest rates.
abla	Facility operations and maintenance requirements.
	Define the anticipated impact of the proposed project on the operating budget for the agency or institution. Include maintenance and operating assumptions (including FTEs) and moving costs.
	Show five biennia of capital and operating costs from the time of occupancy,
	including an estimate of building repair, replacement and maintenance.
,	Identify the agency responsible for ongoing maintenance and operations, if not maintained by the owner.
Ø	Clarify whether furniture, fixtures and equipment are included in the project budget. If not included, explain why.
Prede	esign appendices
	Completed Life Cycle Cost Model.
N/A 🗌	A letter from DAHP.
N/A 🗌	Title report for projects including proposed acquisition.



Life Cycle Cost Model

Project and Existing Facility Information Sheet

*	Requires a user input	Green Cell = Value can be entered by user. Yellow Cell = Calculated value.
*	Agency	DSHS
*	Project Title	DSHS Commmunity Nursing Care Homes
*	Date of Analysis:	3/8/2022
*	Analysis Period Years of Analysis (If not 30 or 50)	

Existing Facility Description	Comparing ownership of five 6 bedroom homes versus a single 30 Bed Nursing Home

Existing Lease Information	Lease 1	Lease 2	Lease 3	Lease 4	Lease 5	Lease 6	Total
Existing Square Feet							-
Lease Start Date / Last Lease Increase							
Lease End Date							
Lease Rate per Month							\$ -
Lease Rate per SF per Year at End Date							
Additional Operating Costs per Month	\$ -						\$ -
Total Lease Costs per Month							\$ -
Persons Relocating							-
SF per Person Calculated							
Estimated Lease Renewal Rate - 5 Year							\$ -

Lease Option 1 Information Sheet

*	Requires a user input	Green Cell	= Value can be entered by user.	Yellow Cell	= Calculated value.
*	New Lease Option 1 Description				
	<u> </u>				
	New Lease Information				•
*	Lease Location		Market Area:		
*	Lease Square Feet Type				
*	New Facility Square Feet				
*	New Lease Start Date				
	SF per Person Calculated				

	New Lease Costs	Years of Term	Rate / SF / Year	Rate / Month	Adjusted to FS	Total FS Rate /	Estimated FSG	Estimated FSG	Real Estate
					Rate	Month	Market Rate	Rate / Month	Transaction
									Fees for Term
*	Year				\$ -	\$ -	\$ -		
	Years				\$ -	\$ -			
	Years				\$ -	\$ -			
	Years				\$ -	\$ -			
	Years				\$ -	\$ -			
	Total Length of Lease	0							\$ -
	Transaction Fee for first 5 Years	2.50%	of total rent for fi	rst 5 years of term	1				
	Transaction Fee for Additional Years	1.25%	of total rent for te	erm beyond 5 year	rs				

1.25% of total rent for term beyond 5 years Note: Real estate transaction fees calculated on base lease - not full service rate including added services and utilities.

Added	New Lease Operating Costs	Kno	wn Cost / SF	Esti	mated Cost /	Total	Cost / Year	Cos	t / Month
Services	(Starting in current year)		/ Year		SF / Year				
	Energy (Electricity, Natural Gas)	\$	-	\$	-	\$	-	\$	-
	Janitorial Services	\$	-	\$	-	\$	-	\$	-
	Utilities (Water, Sewer, & Garbage)	\$	-	\$	-	\$	-	\$	-
	Grounds	\$	-	\$	-	\$	-	\$	-
	Pest Control	\$	-	\$	-	\$	-	\$	-
	Security	\$	-	\$	-	\$	-	\$	-
	Maintenance and Repair	\$	-	\$	-	\$	-	\$	-
	Management	\$	-	\$	-	\$	-	\$	-
	Road Clearance	\$	-	\$	-	\$	-	\$	-
	Telecom	\$	-	\$	-	\$	-	\$	-
	Additional Parking	\$	-	\$	-	\$	-	\$	-
	Other	\$	-	\$		\$	-	\$	-
	Total Operating Costs	\$	-	\$	-	\$	-	\$	-

Escalated to lease start date

New Lease One Time Costs	Current Estimate	Calculated (for reference)
Real Estate Transaction Fees		\$ -
Tenant Improvements		\$ -
IT Infrastructure		\$ -
Furniture Costs		\$ -
Building Security and Access Systems		
Moving Vendor and Supplies		\$ -
Other / Incentive		
Total	\$ -	\$ -

Per Std % \$19 per SF \$1500 per Person \$7000 per Person \$450 per person \$300 per Person

Biennium Budget Impacts for New Lease	Biennium Time Period		Existing Lease		New Lease		Biennium	
	Start	Finish		Option	C	Option 1	ı	mpact:
23-25 Biennium Lease Expenditure	7/1/2023	6/30/2025	\$	-	\$	-	\$	-
25-27 Biennium Lease Expenditure	7/1/2025	6/30/2027	\$	-	\$	-	\$	-
27-29 Biennium Lease Expenditure	7/1/2027	6/30/2029	\$	-	\$	-	\$	-
29-31 Biennium Lease Expenditure	7/1/2029	6/30/2031	\$	-	\$	-	\$	-
31-33 Biennium Lease Expenditure	7/1/2031	6/30/2033	\$	-	\$	-	\$	-

Lease Option 2 Information Sheet

*	Requires a user input	Green Cell	= Value can be entered by user.	Yellow Cell	= Calculated value.
			-		
*	New Lease Option 2 Description				
	New Lease Information				
	Lease Location		Market Area:]
	Lease Square Feet Type				1
	New Facility Square Feet				
	New Lease Start Date		1		
	SF per Person Calculated				

1.25% of total rent for term beyond 5 years

New Lease Costs	Years of Term	Rate / SF / Year	Rate / Month	Adjusted to FS	Total FS Rate /	Estimated FSG	Estimated FSG	Real Estate
				Rate	Month	Market Rate	Rate / Month	Transaction
								Fees for Term
Year				\$ -	\$ -	\$ -		
Years				\$ -	\$ -			
Years				\$ -	\$ -			
Years				\$ -	\$ -			
Years				\$ -	\$ -			
Total Length of Lease	0							\$ -
Transaction Fee for first 5 Years	2.50%	of total rent for fi	rst 5 years of term)			•	_

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

Transaction Fee for Additional Years

Added	New Lease Operating Costs	Known Cost / SF	Estimated Cost /	Total Cost / Year	Cost / Month
Services	(Starting in current year)	/ Year	SF / Year		
	Energy (Electricity, Natural Gas)	\$ -	\$ -	\$ -	\$ -
☑	Janitorial Services	\$ -	\$ -	\$ -	\$ -
Z	Utilities (Water, Sewer, & Garbage)	\$ -	\$ -	\$ -	\$ -
	Grounds	\$ -	\$ -	\$ -	\$ -
	Pest Control	\$ -	\$ -	\$ -	\$ -
	Security	\$ -	\$ -	\$ -	\$ -
	Maintenance and Repair	\$ -	\$ -	\$ -	\$ -
	Management	\$ -	\$ -	\$ -	\$ -
	Road Clearance	\$ -	\$ -	\$ -	\$ -
	Telecom	\$ -	\$ -	\$ -	\$ -
	Additional Parking	\$ -	\$ -	\$ -	\$ -
	Other	\$ -	\$ -	\$ -	\$ -
	Total Operating Costs	\$ -	\$ -	\$ -	\$ -

Escalated to lease start date

New Lease One Time Costs	Current	Calculated		
	Estimate	(for reference)		
Real Estate Transaction Fees		\$ -		
Tenant Improvements		\$ -		
IT Infrastructure		\$ -		
Furniture Costs		\$ -		
Building Security and Access Systems				
Moving Vendor and Supplies		\$ -		
Other / Incentive				
Total	\$ -	\$ -		

Per Std % \$19 / RSF \$1500 / Person \$7000 / Person \$450 / Person \$300 / Person

Biennium Budget Impacts for New Lease	Biennium Time Period		Existing Lease		New Lease		Biennium			
	Start	Finish	Option		Option		0	ption 2	Ir	npact:
23-25 Biennium Lease Expenditure	7/1/2023	6/30/2025	\$	-	\$	-	\$	-		
25-27 Biennium Lease Expenditure	7/1/2025	6/30/2027	\$	-	\$	-	\$	-		
27-29 Biennium Lease Expenditure	7/1/2027	6/30/2029	\$	-	\$	-	\$	-		
29-31 Biennium Lease Expenditure	7/1/2029	6/30/2031	\$	-	\$	-	\$	-		
31-33 Biennium Lease Expenditure	7/1/2031	6/30/2033	\$	-	\$	-	\$	-		

	Ownership Option 1 Information Sho	eet			
*	Requires a user input	Green Cell	= Value can be entered by user.	Yellow Cell	= Calculated value.
*	Project Description	5 - 6-Bedroom Hom	es located thru-out the State		
*	Construction or Purchase/Remodel	Const	ruction		
*	Project Location	Tacoma	Market Area = Pierce County		
					
	Statistics		_		
*	Gross Sq Ft	25,000			
*	Usable Sq Ft	22,500			
	Space Efficiency	90%			
	Estimated Acres Needed	2.00			
	MACC Cost per Sq Ft	\$1,161.29			
	Estimated Total Project Costs per Sq Ft	\$1,650.74			
	Escalated MACC Cost per Sq Ft	\$1,373.55			
	Escalated Total Project Costs per Sq Ft	\$1,952.47			
*	Move In Date	1/1/2027			
		, ,			
	Interim Lease Information	Start Date			
	Lease Start Date				
	Length of Lease (in months)				
	Square Feet (holdover/temp lease)				
	Lease Rate- Full Serviced (\$/SF/Year)				
			1		

One Time Costs (if double move)

	Construction Cost Estimates (See Capital Budget System For Detail)								
			(nown Costs	Esti	mated Costs	Cost to Use			
	Acquisition Costs Total	\$	2,275,000	\$	500,000	\$	2,275,000		
	Consultant Services								
	A & E Fee Percentage (if services not specified)		6.92%		6.61% Std		6.92%		
	Pre-Schematic Design services	\$	479,252						
A & E	Construction Documents	\$	1,369,051	1					
⊗	Extra Services	\$	992,155	1					
	Other Services	\$	683,788	1					
	Design Services Contingency	\$	300,298						
	Consultant Services Total	\$	3,824,544	\$	1,839,997	\$	3,824,544		
	Construction Contracts								
O	Site Work	\$	2,571,061						
MACC	Related Project Costs	\$	223,960						
Σ	Facility Construction	\$	26,237,250						
	MACC SubTotal	\$	29,032,271	\$	9,047,000	\$	29,032,271		
	Construction Contingency (5% default)	\$	1,454,459	\$	1,451,614	\$	1,454,459		
	Non Taxable Items					\$	-		
	Sales Tax	\$	3,140,134			\$	3,140,134		
	Construction Additional Items Total	\$	4,594,593	\$	1,451,614	\$	4,594,593		
	Equipment	\neg							
	Equipment	\$	1,266,573						
	Non Taxable Items								
	Sales Tax	\$	130,458	1					
	Equipment Total	\$	1,397,031			\$	1,397,031		
	Art Work Total			\$	145,161	\$	145,161		
	Other Costs								
	Other Costs Total	\$	-			\$	-		
	Project Management Total					\$	-		
	Grand Total Project Cost	\$	41,123,439	\$	12,983,772	\$	41,268,600		

Construction One Time Project Costs								
One Time Costs	Estimate	Calculated						
Moving Vendor and Supplies		\$ -						
Other (not covered in construction)								
Total	\$ -	\$ -						

\$300 / Person in FY22

	Ongoing Building Costs				
Added	New Building Operating Costs	Known Cost /GSF/	Estimated Cost	Total	Cost / Month
Services		2027	/GSF/ 2027	Cost / Year	
Ø	Energy (Electricity. Natural Gas)	\$ -	\$ 1.21	\$ 30,273	\$ 2,523
Ø	Janitorial Services	\$ -	\$ 1.79	\$ 44,645	\$ 3,720
☑	Utilities (Water, Sewer, & Garbage)	\$ -	\$ 0.81	\$ 20,182	\$ 1,682
.	Grounds	\$ -	\$ 0.09	\$ 2,141	\$ 178
Ø	Pest Control	\$ -	\$ 0.15	\$ 3,669	\$ 306
☑	Security	\$ -	\$ 0.11	\$ 2,752	\$ 229
Ø	Maintenance and Repair	\$ -	\$ 6.89	\$ 172,160	\$ 14,347
Ø	Management	\$ -	\$ 1.08	\$ 26,910	\$ 2,242
Ø	Road Clearance	\$ -	\$ 0.11	\$ 2,752	\$ 229
☑	Telecom	\$ -	\$ -	\$ -	\$ -
	Additional Parking	\$ -	\$ -	\$ -	\$ -
	Other	\$ -	\$ -	\$ -	\$ -
	Total Operating Costs	\$ -	\$ 12.22	\$ 305,485	\$ 25,457

Ownership Option 2 Information Sheet Requires a user input Green Cell = Value can be entered by user. Yellow Cell = Calculated value. **Project Description** Construct a single 30 Bed Nursing facility in Vancouver Wa Construction or Purchase/Remodel Construction **Project Location** Vancouver Market Area = Southwest Washington Statistics 28,000 Gross Sq Ft Usable Sq Ft 26,000 93% Space Efficiency Estimated Acres Needed 2.00 MACC Cost per Sq Ft \$1,312.96 Estimated Total Project Costs per Sq Ft \$1,741.42 Escalated MACC Cost per Sq Ft \$1,552.95 Escalated Total Project Costs per Sq Ft \$2,059.72 1/1/2027 Move In Date Interim Lease Information Start Date Lease Start Date Length of Lease (in months) Square Feet (holdover/temp lease) Lease Rate- Full Serviced (\$/SF/Year) One Time Costs (if double move)



30-Bed Facility - Program

Room/Area	Requirements (if any)	Num.	SF	Total	Bldg Total	NSF
Resident Areas (Private)						7,770
Bedroom (Single occupant)	Window with min 19 SF	10	200	2000	3	6,000
Bathroom (shared)	Sliding door with 3-6" min clear	5	60	300	3	900
Bathroom (shared)	Roll-in shower and tub	1	290	290	3	870
		•	•			
Resident Areas (shared)		1			<u> </u>	4,275
Entry	Separate for each cluster	1	120	120	3	360
Living Room	Off of Dining	1	450	450	3	1,350
Kitchen	Prep and Warming	1	275	275	3	825
Dining	12 seats	1	245	245	3	735
Multi-purpose Room	6-8 Meeting	1	335	335	3	1,005
Season Porch		1	200	200	3	n/a
Covered Courtyard		1	600	600	3	n/a
Staff Administration						1 1 5
Administration Administrative Office	At Main Entry	1	645	645	1	1,15 5
Office	Per wing	1	120	120	3	120
Public Toilet Room	Off main living areas	1	60	60	3	60
Staff Break	Off filalif living areas	1	330	330	1	330
Staff Break			330	330	-1	330
Shared Services						3,903
Physical Therapy		1	500	500	1	500
Entry Lobby		1	120	120	3	360
Service Kitchen		1	590	590	1	590
Food Storage	Walk in Freezer/Cooler	2	200	400	1	400
Receiving/Storage		1	385	385	1	385
Trash		1	88	88	1	88
Community room		1	900	900	1	900
Activity Room		1	500	500	1	500
Emergency Food Storage		1	60	60	3	180
Support Areas	25.55	20	25	750	ا ا	4,365
Storage	25 SF per bed	30	25 150	750 150	3	2,250
Storage	Lastrad anna an an h-uitan	1			1	150
Medical Storage	Locked space each wing	1	120	120	3	360
Pantry Clean Linens		1	150 90	150 90	3	450 270
		1	90	90		
Soiled Linens		 			1	270
Housekeeping/Janitor		1	90	90		270
Laundry		1	115	115	3	345
Bldg Services						2,100
Garage	3 bays plus storage area	1	900	900	1	900
Generator		1	200	200	1	200
Maintenance		1	100	100	3	300
Mechanical/FSR		1	100	100	3	300
PV Room		1	200	200	1	200
Electrical		1	200	200	1	200

Non-assignable space 4,432

28,000 GSF

Total

CNCH (Community Nursing Care Homes)



ENGINEERING SUMMARY

General

A (30) thirty bed facility will be located in a rural area of Washington state and will assimilate the look and feel of a residential building. The residents may be non-ambulatory but will not require electrical life support for survival. This will be a long term care facility.

Electrical Service

Incoming electrical service will be assumed to be 120/208V, 3 phase, 4 wire service with underground service on the property through a Power Company pad mounted transformer. Currently a 1600 Ampere service will be planned for.

Normal power will be distributed from electrical rooms inside the building and branch circuits will supply power to all electrical fixtures and devices from this room or area.

Essential Power

Per WAC 388-97, a permanently fixed in place, on premises emergency power generator with on-site fuel supply is required to provide power for a minimum of (4) four hours.

Current planning is for a 500kVA, 120/208V, 3 Phase generator with a 72 hour fuel tank to allow for a longer outage time.

Automatic Transfer Switches will be provided for the Life Safety branch, for the Equipment Branch, and an additional automatic transfer switch may be added for any optional loads. Three Automatic Transfer Switches will be planned for the facility.

The Life Safety Branch will provide power for Exit and Egress Lighting, Fire Alarm Systems, Communications Systems needed during emergency conditions, task lighting and power at the generator set location and generator accessory equipment required for proper operation of the generator. Should a fire pump be required for the facility it will be directly connected between the generator and the fire pump transfer switch.

The Equipment Branch will provide power for nurse call systems as well as task lighting and select receptacles in Patient Care spaces, Medication Preparation, Pharmacy Dispensing and Nurse Stations. Mechanical Systems for supply, return and exhaust ventilation, sump pumps, smoke control, kitchen supply and exhaust, and heating for general patient rooms will be supplied power from this branch.

All other power on the emergency power systems will be considered optional connections to the third transfer switch.

Uninterruptable Power Supplies (UPS) will be provided for select medical equipment, security systems, and all computers in the building.

Lighting

Lighting will be accomplished using LED lighting fixtures with features that allow dimming and in specific locations, will be tunable for light color. Fixtures will be a mixture of recessed and surface mounting, located on wall and ceiling locations, and linear and round sources as best selected for the purpose and location.

Tunable lighting will be provided in Quiet Rooms. Amber night lights will be provided in Patient bedrooms.

Exterior lighting LED fixtures will be a mix of pedestrian oriented poles, bollards, wall sconces and parking site lighting pole mounted fixtures.

Lighting controls will vary from fully automatic lighting in public spaces using occupancy sensors and daylighting controls to (manual dimming) lighting control in Patient rooms. All controls will be localized to the area of use. Wireless lighting controls may be provided and will be decided during building design.

Site lighting controls will be based on photocells and lighting intensity variation based on occupant sensing controls. Some controls will likely include time of day control.

Power Distribution

Individual building power panels will be provided to serve lighting, receptacles, HVAC connections, kitchen equipment connections, and miscellaneous equipment



ENGINEERING SUMMARY

connections. All distribution panels will be of door-in-door construction.

Building level metering will be provided to achieve LEED Energy and Atmosphere Prerequisite 3 for Building Level Metering, as well as net zero energy requirements in alignment with Executive Order 20-01. Responding to these project requirements will be best accomplished by separating loads (lighting, power, mechanical, etc.) into specific panels for distribution, metering, load shed and/or Power Company Demand Shedding.

All receptacles in the building will be tamper-resistant. Patient Rooms will have a minimum of four duplex receptacles (NFPA 99).

Telecommunications

Each building will have a main distribution facility (MDF) as required by DSHS Enterprise Technology, Telecommunications Infrastructure Standards. Cable will be based on CAT-6A cabling.

Patient Rooms will have telephone/data jacks.

Public area phones for patients will be determined during building design.

Wireless connectivity will be available to Residents, Staff, External Providers (Doctors), and Visitors over multiple wireless networks.

Telecommunications outlets will be provided at each telephone, computer, printer, monitor and every equipment reporting location, such as medical refrigerator alarms.

Television

Television (TV) outlets will be provided in Patient Rooms.

Conference and Break rooms will be provided with TV outlets in all facilities.

TV outlets will be provided with cable TV (where available) and Internet connections.

Audio / Visual

A Building Ambient Audio/Visual system may be provided for the building. Requirements will be determined during building design.

Fire Alarm

The Fire Alarm system will consist of a local main fire alarm panel centrally located in the building with a remote annunciator located at the front door.

Initiation devices will consist of smoke detectors in corridors, electric rooms, data rooms, and other sensitive areas where smoke detection warnings would be beneficial to the resident and staff population. Manual pull stations will be provided at each Nursing Station. Duct Smoke Detectors will be provided if required. Heat Detectors will be provided in specific areas where having a high heat alarm signal before the sprinkler heads activate is advantageous, such as cooking and laundry areas. The sprinkler system will be fully monitored through the fire alarm system.

Notification appliances will consist of voice alarm speakers and visual alerting devices (Speaker/strobes). Voice alarm is not required but considering the patient population, voice notification will be more calming. Visual devices will need to be carefully coordinated so as to not be disruptive in the environment.

It is likely the fire alarm system will need to be closely coordinated with the local Fire Marshal's office to provide a system that provides for a safe environment and is the least disruptive to the residents and staff.

Security

Security will include intrusion detection, access control, panic alarms, and wander control. Security features for lockdown may also be utilized.

Intrusion Detection will be provided at all exterior doors and will be used to monitor and report door activity and door position to staff members. This type of system could be (but is not planned for) use in monitoring window activity of operable windows. Additional monitoring could be accomplished with motion sensors to monitor traffic in specific hallways.

Access control using card or badge readers will be used at specific staff entry points to the building. Readers will also be provided in high security areas such as Medical Preparation rooms and Data rooms. Additional readers will be provided in areas that have access needs restricted to specific staff. DSHS Standard for Access Control utilizes Lenel S2 Access Control systems.

ENGINEERING SUMMARY

Panic Alarms will be provided in Nurse Station areas. Portable, worn on Staff, alerting and alarming systems will be provided as part of a Real Time Locator System. DSHS standard for Real Time Locator Systems utilizes Actall Corporation systems. Wander Control will be provided at select doors to keep residents from leaving the premises without staff knowledge.

Nurse Call

A Nurse Call System will be provided for the building. A wired vs. wireless system will be determined during design. The system will provide a light and tone signal communication between each Patient bed and the Nurse Station serving the bed. Bath, Shower and Toilet rooms will be equipped with assistance callcords. Select Common area rooms will have staff assist stations. Medication preparation, Clean and Soil rooms, Break rooms and other heavily trafficked Staff rooms will have staff duty stations. If desired, a two-way voice communication system can also be provided. The nurse call system will also utilize portable Staff devices that will allow the staff to receive nurse calls while away from the Nurse Stations. Other possible features can include staff and equipment location tracking.

Solar Power - Net Zero Alternate

To accommodate the possibility of Zero Net Energy design, lighting fixtures will be designed to be 20% more efficient than the current Washington State Energy Code. Connection to the building electrical system for photovoltiac panel (PV) distribution back to the electric utility will be provided.

Site Design

The area around each building will be designed to provide adequate storm water treatment and/or retention. The topography will be modified as minimally as required to provide proper drainage and natural landscaping elements.

Heating, Ventilation and Air Conditioning

The mechanical system will be composed of a Variable Refrigerant Flow (VRF) system with Dedicated Outdoor Air Systems (DOAS) for ventilation air.

Ceiling-mounted VRF cassette units will be utilized to provide space heating and cooling for most spaces. Ducted VRF fan coils will be utilized to provide space heating and cooling for larger spaces (living/dining, community multipurpose, etc.). Ducted VRF fan coils will be remotely located in the ceiling space or a mechanical platform for

ease of access and serviceability. Fan coils located in the ceiling space will be accessed by fire rated access panels (where required) and the unit layout will be optimized to minimize the number of access panels required. Each fan coil will be provided with a filter rack and MERV-13 filter. Condensing units for the VRF system will be outdoor, ground-mounted units.

There will be a DOAS unit to serve each wing and one for the Admin/Community core area. Each DOAS unit will be located on a mechanical platform. The DOAS units will have a plate heat exchanger to capture waste heat from the building to precondition the ventilation air, MERV-15 air filter on the outside air inlet, MERV-13 filter on the return inlet, refrigerant heating/cooling coil, and supply and exhaust fans with Variable Frequency Drives (VFDs). The refrigerant coil will be served by the VRF system and associated condensing units. The DOAS units will deliver tempered ventilation air to each space. The Admin/Community DOAS unit will supply and return air via Variable Air Volume (VAV) boxes. Return back to the DOAS units will be ducted to each space. Return from bedrooms will be through the bathrooms. DOAS intakes will be located on the roof, elevated 3 ft above the roof level, and 25 ft from all points of building exhaust.

The Mechanical and Electrical spaces will be provided with electric unit heaters for space heating and exhaust fans for ventilation. Both the unit heater and exhaust fan will be thermostatically controlled.

A BACnet direct digital control (DDC) system will be provided for the control of all HVAC components. There will be a single network controller and operator workstation. The system will be capable of optimal start/stop, time and holiday scheduling, and after-hours override. Each of the 30 bedrooms will be individually controlled through temperature sensors located within each zone. The BACnet control system will meter building power, and domestic water consumption. The DDC system will incorporate monitoring and control points necessary for scheduling and control.

Plumbing

Each wing (total of 3) will have a central heat pump water heating system to produce and store 140F hot water for service to the building fixtures. Water will be circulated between indoor tanks in the mechanical room and an



ENGINEERING SUMMARY

outdoor, ground-mounted heat pump. The indoor tanks will have electric resistance backup heat. A recirculation pump will keep hot water readily available at the fixtures. Individual point of use mixing valves will be provided at all lavatories, hand washing sinks, and shower heads to provide tempered water at 105F.

Lavatories will be provided with low flow 0.5 gpm non-aerator faucets with gooseneck spouts and wrist blade, single-lever cotnrols. Water closets will be low flow 1.28 gallon per flush. Shower heads will utilize 1.5 gpm flow cartridges.

Sanitary waste and vent piping above and below ground will be cast iron. All bathrooms, mechanical room, and fire riser room will be provided with floor drains. All floor drains will have trap primers installed.

The domestic water piping will consist of Type L copper or PEX for all above ground pipe and PVC Type C-900 for below ground cold water pipe. The domestic water meter and reduced pressure backflow assembly (RPBA) will be located on the site, exterior to the building.

Each of the three kitchens within the building will have a type 1 hood and 3 compartment sink with grease waste system. Grease waste will be routed to one exterior grease interceptor located on the exterior of the building.

Fire Protection

The building will be provided with an automatic fire protection sprinkler system. Exterior canopies and other areas subject to freezing will be provided with dry-type sprinklers or dry-pipe distribution system. All other areas will be served by a wet-pipe distribution system. A mix of prescriptive and performance-based design specifications will be issued as part of the contract documents. The final design will be provided by the installing contractor. All aspects of the fire protection systems will be in accordance with NFPA 13 and will comply with the requirements of the local jurisdiction.

Low-profile sprinklers with white finish are to be utilized for all areas throughout the building including Staff/Service areas. Sprinklers shall be centered within ceiling tiles (where applicable), and coordinated to avoid conflicts with light fixtures, HVAC grilles, etc. The double check valve assembly (DCVA) and fire department connection (FDC) will be located on the site, exterior to the building.



Detailed Staffing Plan

Oversight, WACs, and Licensing

Oversight for the project will be provided by DSHS Residential Care Services. Because this is a new residential program, a modification of the existing WACs for Residential Care Services (388-101 and 388-101D) will be required to detail the delivery of "person-centered care" including nursing care. These homes will be similar to State Operated Living Alternatives (SOLAs), but slightly larger with the ability to address higher levels of medical acuity and increased activities of daily living (ADL) support. For the purposes of this report, it is assumed the initial five, 6-bed homes will be individually located around in the state in areas with the greatest community need.

Licensure and/or certification for the homes should be tailored to meet the unique needs of the residents. For the purposes of this project, several different licensure and certification options and the supporting WACS and RCWs were reviewed including Nursing Facility (NF), Adult Family Home (AFH), State-Operated Living Alternative (SOLA), and Group Training Home (GTH). Similar to the East Tennessee model, the project workgroup determined that the existing WACs, 388.101 and 388.101D, will need to be amended to include the unique structure of the proposed CNCH model. It is critical that the amended WACs offer the flexibility to optimally meet individual resident needs while also providing the appropriate level of regulatory oversight needed to ensure the provision of safe and quality care.

Detailed Staffing Plan - CNCH 6-Bed Model

Staffing Projections for CNCH 6-Bed Model

The staffing plan is intended to meet the holistic needs of the residents including nursing and personal care, with the goal of maximizing resident independence, safety, and well-being. For the purposes of this project, it is assumed the homes will be individually located around the state. Under this assumption, the model proposes employing nursing and certified nursing assistants/attendant counselors, contracting for medical and rehabilitation personnel, and centralizing indirect services that are not required to be on site. Examples of resident medical issues that could be managed in the CNCH model include, gastrostomy and jejunostomy tubes for artificial nutrition, diabetes including insulin support, catheter and colostomies, and other common conditions including aspiration, constipation, and dehydration.

Nursing

A mix of Registered Nurses (RN) and Certified Nursing Assistants (CNA)/Attendant Counselors (AC) will provide care in each home 24/7. Based on similar models, it is assumed that an RN will be on call 24/7 and in the home intermittently with care delegated to the CNA/AC. CNAs/ACs will assist residents with activities of daily living, recreation, transportation, food preparation and housekeeping. In contrast to a nursing facility, this model assumes admissions and care planning will be managed by the head nurse, rather than a physician.

Rehabilitation, Medical & Other Clinical Care

Rehabilitation care, including physical therapy (PT), occupational therapy (OT), speech language pathology (SLP), and dietary care will provide support to the residents at home in order to maintain maximum functioning and independence. It assumed that a 0.1 FTE for each role will be sufficient to meet resident needs as not all residents will require ongoing therapy. The 0.1 FTE contracted Advanced Practice Registered Nurse (ARNP) will collaborate with community providers to address medication management and other medical needs. The 0.1 FTE social worker will collaborate with the care team to meet residents' behavioral health needs.

Administration & Other Support Services

Each home will be supported by a part-time house manager. This staffing plan has an attendant counselor in the role of house manager and an RN to provide clinical consultation and support as needed. An alternative model would be an RN serving as the house manager and clinical consultant.

CNA/AC				11.2	0.7
RN	.5	.5	.5	2.1	0.26

Pire/Shiftrsing Services - Each CNCH 6-Bed	7agminn3pm	3pgnhf4pm	11p 8 n h7s m	FTEs 40hr/week	FTE/Bed
Nursing Hrs/Bed/Day CNA/AC	3 4.7	3 4.7	2 3.3	* HPPD 1 11.2	0.7
RN	.5	.5	.5	2.1	0.26
Total	3.5	3.5	2.5	13.3	1.23
Hrs/Shift	8 hrs	8 hrs	8 hrs		
Nursing Hrs/Bed/Day	4.7	4.7	3.3	*HPPD 12.7	

^{*}Hours per Patient Day (HPPD) (Total number of nursing staff x 8 hours/Beds)

Contracted Rehabilitation & Other Clinical Care - Each CNCH	FTEs	FTEs/Bed
Advance Practice Nurse Practitioner (ARNP)	0.1	0.02
Dietician	0.1	0.02
Occupational Therapist (OT)	0.1	0.02
Physical Therapist (PT)	0.1	0.02
Social Worker (MSW/LICSW)	0.1	0.02
Speech Language Pathologist (SLP)	0.1	0.02
Total Medical & Behavioral Health FTEs	0.6	0.12
Physical Therapist (PT) 0.1	0.0	2

Total Nursing & Other Clinical Roles - Each CNCH			
Nursing FTEs	13.3	Nursing FTEs/Bed	2.21
Other Clinical FTEs	0.6	Other Clinical FTEs/Bed	0.1
Total FTEs	13.9	Total FTEs/Bed	2.32

Nursing FTEs	13.3	Nursing FTEs/Bed	2.21	
Administration &	Other Supp	oort Staff	FTEs	
Attendant Couns	selor Manage	er	0.5	
Nursing Consulta	ation Adviso	r	0.05	
Developmental [Disabilities A	dministrator	0.1	
Secretary			0.2	
Quality Assurance	ce/Safety		0.1	
Human Resource	e Consultani	t 2	0.1	
IT System Admir	nistration		0.1	
Accounting/Billin	ng		0.1	
Total FTEs			1.25	

E/B

0.26

77

Detailed Staffing Plan - 30-Bedroom Nursing Facility Model

Staffing Projections for 30-Bed Nursing Facility Comparison Model

The 30-bed nursing facility comparison staffing plan is modeled on the existing Residential Habilitation Center Nursing Facilities.

Nursing

A mix of Registered Nurses (RN), and Certified Nursing Assistants (CNA)/Attendant Counselors (AC) will provide care in the facility 24/7.

Direct Nursing Services - 30-Bed Facility	7am-3pm	3pm-11pm	11pm-7am	FTEs 40hr/week	FTE/Bed
CNA/AC	7	7	4	25.2	.84
RN	2.5	1.5	1.5	7.7	0.26
Total	9.5	8.5	1.5	32.9 Total FTEs	1.1
Hrs/Shift	8 hrs	8 hrs	8 hrs		
Nursing Hrs/Bed/Day	2.5	2.5	1.5	*HPPD 6.3	

0.05

0.1 0.2

0.1

0.1

0.1

0.1

Nursing Consultation Advisor

Human Resource Consultant 2

IT System Administration

Accounting/Billing

Developmental Disabilities Administrator

Medical, Rehabilitation & Other Clinical Care

Medical personnel, including a physician and advanced registered nurse practitioner, will be on-call 24/7 and on-site intermittently for admissions, treatment planning and physical care. Rehabilitation staff will provide therapies including physical therapy (PT), occupational therapy (OT), speech language therapy (SLP), and dietary support.

Medical, Rehabilitation & Other Clinical Care - 30-Bed Facility	FTEs	FTEs/Bed
Advanced Registered Nurse Practitioner (ARNP) Advanced Registered Nurse Practitioner (ARNP)	0.5	0.02
Dietician 1	0.5	0.02
Dietician 1	0.5	0.02
Occupational Therapist 2	1.0	0.03
Occupational Therapist 2	1.0	0.03
Physical Therapist	1.0	0.03
Physical Therapist	1.0	0.03
Physician 3	0.2	0.01
Physician 3	0.2	0.01
Social Worker Social Worker	0.5 0.5	0.03
Speech Pathologist 1	0.5	0.02
Speech Pathologist 1	0.5	0.02
Total Medical, Rehab & Other Clinical Care FTEs	4.2	0.15

Total Nursing, Medical & Behavioral Health FTEs - 30-Bed Facility			
Nursing FTEs	32.9	Nursing FTEs/Bed	1.1
Other Clinical FTEs	4.2	Other Clinical FTEs/Bed	0.15
Total FTEs	37.1	Total FTEs/Bed	1.25

Administration & Other Support Services

The facility is supported by a full-time administrator, part-time director and clinical leadership provided by a full-time nurse manager and full-time nurse educator.

Administration & Other Support Staff	FTEs
Director/Administrator	1.0
Assistan/Administrator	1.0.5
Assistanageirector	D150
RNnManagarse Specialist/RN Educator	1.00
Renicative to Spanialist/RNE Educator	1.00
Ruprastions/Prevalental/Coranistor or SW Assistant	1. _{PO}
Odmissigns ให้สารเมื่อเกาะ Grordinator or SW Assistant	1.0.0
Uniti-Saccetany/spetialisk	² 0.5
Glinisah Ruslityr Specialistitant 2	₽ <i>Ф</i> .5
มียอลกเกิดรูกษแก๊ด Consultant 2	₽ <u>Ф.</u> 5
ACSOUNTINE SHIP STRATEGION	°∂.5
Total Fres Administration	⁰ 9.5

Dietary & Environmental Services ty	FTEs	FTEs/Bed
Dietary & Environmental Services - 30-Bed Facility	FTEs	FTEs/Bed
Custodian 2	0.5	0.02
Food Service Worker	0.5	0.02

^{*}Hours per Patient Day (HPPD) (Total number of nursing staff x 8 hours/Unit Beds)

Detailed Staffing Plan - Assumptions

The plan includes several important assumptions that can be adjusted as the project progresses:

Salary Benchmarks

Salaries were estimated based on the Office of Financial Management's Salary Schedules. Based on the expertise required in these positions, and workforce shortage, we used the mid to higher end in the salary range.

Employee Benefits & Non-Productive Time Factor

Employee Benefits have been estimated based on public employment compensation: 13.4% of salary for retirement benefits and \$11,282 healthcare benefit per FTE. In addition, we have included a 5-week (9.6%) factor for non-productive time in the budget. This allocation covers time essential healthcare staff may be absent due to sick-leave, vacation and continuing education when substitute or temporary staff will need to be employed.

Cost of Living Adjustments

An annual escalation of 3% is factored in the current model based on wage adjustment trends from the Office of Financial Management.

Contract Pay Adjustment

Because some staff will be needed at fractional FTEs, such as 0.1 FTE for a physical therapist, we have planned that these positions will be filled by contract staff. We've added a 20% premium to the anticipated contract staff positions to account for the higher cost of contract staffing.

Discount Rate

For the purposes of the Net Present Value Analysis, we have used a discount rate of 5%, which allows for inflation of approximately 2% and cost of capital at 3%, a rate appropriate for a long-term, government-funded project.

Operating Costs

Facility operating costs such as maintenance, utilities and housekeeping have been estimated at a cost of \$9.35/square foot.

Food Services

Nutrition services and food preparation will be handled by on-site staff. Food costs have been budgeted at a cost of \$4 per meal, which allows for special supplies and nutrition preparations that may be required in a nursing home setting.

Contingent Staffing Agency Support

Because of minimum staffing requirements, there will be times when an operator needs temporary staffing to fill gaps when staff are sick, on vacation or pursuing continuing education. It is common to use a contingent staffing agency to fill this need, and a line-item has been added to cover this professional service under vendor operations expense.

Transportation

Although transportation was not included in this estimate, providers we interviewed in both Oregon and Tennessee recommended homes consider including an accessible van purchase or lease as part of an ongoing program. Access Washington runs basic van services, but stakeholders we interviewed suggested the timing and availability is challenging. If CNCHs are sited in more remote locations of the state, public transportation services may also be limited.



Project Staffing & Operations Budget

ng Care Homes Predesign Staffing Plan & Operations Budget

ACILITIES		Cost per SF includes:									get Variables	
		2022 • Housekeeping		u nds -keep	•	2028	2029	2030	2031	\$11,282 Healt	ment Benefits hcare per FTE of-Living Increase	,
	Ś	3,233,211 \$ Sewer Water 3,430,113	\$ 3,533,016 Pes	t control s	3.748.177 S	3.860.622 \$	3,976,441 \$	4,095,734 \$	4,218,606		Productive Time	
	\$	1,073,504 \$ Ero86,501 \$ 1,099,889					1,173,097 \$		1,205,547		act Pay Adjustm	
ent	\$	310,388 \$ 319,700 \$ 329,291	\$ 339,170 \$	349,345 \$	359,825 \$	370,620 \$	381,738 \$	393,190 \$	404,986		ting Costs/Sq Ft	
	\$	32,332 \$ Telescom \$ 34,301		itract₃main			39,764 \$		42,186		ge Meal Cost - F	
	\$	4,649,435 \$ 4,769,710 \$ 4,893,594					5,571,040 \$	5,718,964 \$	5,871,325	5.0% Disco	unt Rate	
										30 Resid	ents	
	\$	DSH®Community/Nursing@are						166,454 \$	171,447			
keeping	\$	√.957.50002\$ 481,525 \$ 495,971 15.519 \$ 15.985 \$ 16.465		526,175 \$	541,961 \$ 17.991 \$	558,219 \$ 18.531 \$	574,966 \$	592,215 \$	609,981			
pport	\$ \$	-/ 1 -/ 1 -/	,	17,467 \$ 691,534 \$	712,280 \$	733,649 \$	19,087 \$ 755,658 \$	19,660 \$ 778,328 \$	20,249 801,678			
	Ş	ALTERNATIVE 1:6PAVE52BED FACELTRES						iennium			Fifth Biom	-1
	Ś	5,263,854 \$ 5,402,562 \$ 5,545,431	First Bie			Biennium 6 16 16 16 74 \$	6,32 26)56 9 \$		Fourth Bio 6, 26728 003	2029	Fifth Bien 2030	10m 2031
	\$	Staff (Compensation , 085 \$ 184,848		194,805 \$	200,009 \$		210,890 \$		222,433	2023	2030	2031
nt	\$	Salarles Wages 493 \$ 506						\$ 3,748,937 \$\$		3,976,441 \$	4,095,734 \$	4,218,606
		Employee Benefits	\$ 1,073,504					\$ 1,142,509 \$			1,189,082 \$	
		Non-Productive Time Adjustment	\$ 310,388	\$ 319,700				\$ 359,825 \$			393,190 \$	
		Contract Pay Adjustment	\$ 32,332							, .	40,957 \$	
		Total Compensation Expense						\$ 5,287,993		, ,	5,718,964 \$	
		•	Ç 4,043,433	7 4,703,710	Ţ 4,055,554	J 3,021,134	J 3,132,022	Ų 3,207,333 Ų	, 3,427,423 ,	, 3,371,040 	3,710,304 9	3,071,323
		Other Operations Expense	ć 404.400	ć 1050°°	ć 400.400	ć 440.FC:	6 447.000	ć 452.220 d	150,000	164 605 ±	100 151 1	474 4:-
		Food & Nutrition Supplies	\$ 131,400								166,454 \$	
		Maintenance, Utilities & Housekeeping	\$ 467,500								592,215 \$	
		Contingent Staffing Agency Support	\$ 15,519								19,660 \$	
JTY		Total Operations Expense	\$ 614,419	\$ 632,852	\$ 651,838	\$ 671,393	\$ 691,534	\$ 712,280 \$	733,649	755,658 \$	778,328 \$	801,678
		2024 2023 2024 Annual Cost per Resident	\$ 202 5263,854 \$ 175,462			2028 692,587 \$ 189,753		\$ 2630 00,274 \$ \$ 200,009 \$			6,497,292 \$ 216,576 \$	
	ċ										593 \$	
	\$	3,Asver,ass Daily B,atespes Resident 29,778								ڊ 3/0 ج	333 \$	003
	\$	1,074,246 \$ 1,087,621 \$ 1,101,398				1,160,762 \$	1,176,733 \$		1,210,126	4 406 267 6	4 207 622 6	4 201 477
ent	\$ \$	Ayrınyun NP¥ 328,989 \$ 338,859		, .	, .	, .	, .	\$ 44,770,763,71 \$\$,	4,496,267 \$	4,397,623 \$	4,301,477
	Ş	4,720,808 \$ 4,843,580 \$ 4,970,035 Total - Five Biennium NPV	\$ 5,100,284 \$ \$ 47,658,720	5,234,440 \$	5,372,621 \$	5,514,947 \$	5,661,543 \$	5,812,537 \$	5,968,061			
	\$	Skilaf@Pees per ‡35ifft/2 \$ 139,402	\$ 143,58 4 ,0 6 0	147,892 \$	152,329 \$	156,898 \$	161,605 \$	166,454 \$	171,447			
keeping	\$	Total95quare Feet64,347 \$ 581,278	\$ 598,7 16 ,0 6 0	616,678 \$	635,178 \$	654,233 \$	673,860 \$	694,076 \$	714,898			
port	\$	15,970 \$ 16,449 \$ 16,943	\$ 17,451 \$	17,975 \$	18,514 \$	19,069 \$	19,642 \$	20,231 \$	20,838			
	\$	695,280 \$ 716,139 \$ 737,623	\$ 759,752 \$	782,544 \$	806,020 \$	830,201 \$	855,107 \$	880,760 \$	907,183			
	Ś	ALTERNATIVE 2: 30-BED FACILITY 5,416,088 \$ 5,559,718 \$ 5,707,658	\$ 5.860. 035.n \$.	- 6:016 984 \$	6 178 641\$	n6.345.148 \$	6 516 6 516	ienni693,298 \$	6,87 502145h Bi e		Fifth Bien	-1
	\$	180,536 \$ 185,324 \$ 190,255		2002.6566 \$	20520525	21 5 695 \$	2 ½026 2 \$		2028175	2029	2030	2031
nt	\$	Staff495mpensation 508 \$ 521		549 \$	564 \$	579 \$	595 \$		628	2023	2030	2031
		Salaries & Wages		\$ 3,426,969	\$ 3 529 778	\$ 3,635,672	\$ 3.744.742	\$ 3,857,084 \$	3 972 797	4,091,980 \$	4,214,740 \$	4,341,182
	\$	5gHapi088e Benegit94,970 \$ 5,177,014	,. ,					\$ 4,634,837 \$\$			1,193,183 \$	
		Non-Productive Time Adjustment	\$ 319,407								404,615 \$	
	\$	49706031766mpensation Expense	\$ 4,720,808					\$ 5,372,621 \$, .	5,812,537 \$	
		Other Operations Expense										
		Food & Nutrition Supplies	\$ 131,400	\$ 135,342	\$ 139,402	\$ 143,584	\$ 147,892	\$ 152,329 \$	156,898	161,605 \$	166,454 \$	171,447
		Maintenance, Utilities & Housekeeping	\$ 547,910	\$ 564,347	\$ 581,278	\$ 598,716	\$ 616,678	\$ 635,178 \$	654,233	673,860 \$	694,076 \$	714,898
		Contingent Staffing Agency Support	\$ 15,970								20,231 \$	
		Total Operations Expense	\$ 695,280	\$ 716,139	\$ 737,623	\$ 759,752	\$ 782,544	\$ 806,020 \$	830,201	855,107 \$	880,760 \$	907,183
		Total Budget						\$ 6,178,641 \$			6,693,298 \$	
		Annual Cost per Resident	\$ 180,536		\$ 190,255						223,110 \$	
		Average Daily Rate per Resident	\$ 495	\$ 508	\$ 521	\$ 535	\$ 549	\$ 564 \$	5 579 \$	5 595 \$	611 \$	628
		Annual NPV	\$ 5,416,088	\$ 5,294,970	\$ 5,177,014	\$ 5,062,119	\$ 4,950,188	\$ 4,841,127 \$	4,734,847	4,631,262 \$	4,530,287 \$	4,431,844
		Total - Five Biennium NPV	\$ 49,069,745									
		Total Square Feet	29,300									

13.4% Retire \$11,282 Healt 3.0% Cost-9.6% Non-I 20% Contr



7:00 am - 3:00 pm 3	:00 pm - 11:00 pm	11:00pm-7:00am	Hrs/Day	Hrs/Week	FTE's @ 40 Hrs
lan. 63 Ra	d Engil	14 7 2	64	448	Per Week 11.2
lan: 63 Be	a racii	$110y_{0.5}^2$	12	84	2.1
3.5	3.5	2.5	76	532	
8	8	8	8		
28	28	20	76	532	13.3
4.7	4.7	3.3	12.7		

FTE/Bed

Total FTEs/6 Beds

DSHS - Community Nursing Care Homes Precision Staffing Plan - $\frac{11.9}{5.5}$ -Bed Homes $\frac{11.2}{2.1}$

STAFFING PLAN FOR ONE HOME BY TYPE OF STAFF BY DAILY SHIFT

IEDICAL & OTHER CLINICAL SERVICES
DIRECT NURSING SERVICES

ge Pathologist (SLP)

	DINLECT	NONSING SERVICES	FTES	FTEs Per Bed	
aa Daalataaad	N	un)			
ice Registered	BEDS	FTEs	0.1	0.02	
	6	13.3	0.1	0.02	
ist (PT)	O	13.5	0.1	0.02	7:0
erapist (OT)			0.1	0.02	7:0
MSW)		" co. «lo«	0.1,	, 0,02	

7:00 am - 3:00 pm 3:00 pm - 11:00 pm 11:00pm-7:00am

# of Staff Certified Nursing Assistant (CNA)/Attendant Counselors	3	3	2
Registered Nurse (RN)	0.5	0.5	0.5
Total	3.5	3.5	2.5
Hrs/Shift	8	8	8
Total Hrs/Shift	28	28	20
Total Nursing Hrs/Pat/Day	4.7	4.7	3.3

13.3

	FTE/Bed	Total FTEs/6 Beds
CNA/AC	11.9	11.2
RN	0.35	2.1
Total	2.22	13.3

Hrs/Day

64

MEDICAL & OTHER CLINICAL SERVICES		
	FTES	FTEs Per Bed
Advanced Practice Registered Nurse (ARNP)	0.1	0.02
Dietician	0.1	0.02
Physical Therapist (PT)	0.1	0.02
Occupational Therapist (OT)	0.1	0.02
Social Worker (MSW)	0.1	0.02
Speech-Language Pathologist (SLP)	0.1	0.02
Total FTEs	0.6	0.1

TOTAL CLINICAL SERVICES TOTAL NURSING SERVICES	0.60 13.3
TOTAL	13.90



Staffing & Salaries Projections: 6-Bed Facility

DSHS - Community Nursing Care Homes Predesign Staffing Plan - 5, 6-Bed Home v3.1.22

Staffing Plan Nursing/Direct Care Services		FTEs	Salaries Based on 1.0 FTE (Non-represented, Step K)	Salary Total
Nursing Assistant - Lead		1.0	\$45,504	\$45,504
Nursing Assistant - Residential Living/Atte	ndant Counselor 1	7.0	\$45,504	\$318,528
Registered Nurse (RN)		1.5	\$101,017	\$151,526
,			¥/	7-0-,0-0
Contracted Clinical Staff				
Advanced Registered Nurse Practitioner		0.1	\$135,852	\$13,585
Social Worker 2		0.1	\$69,264	\$6,926
Dietician 1		0.1	\$58,260	\$5,826
Occupational Therapist 2		0.1	\$64,332	\$6,433
Physical Therapist 2		0.1	\$70,956	\$7,096
Speech Pathologist 1		0.1	\$82,344	\$8,234
.,				, -, -
Administrative Support Staff				
Attendant Counselor Manager		0.5	\$55,524	\$27,762
Nursing Consultation Advisor		0.05	\$129,312	\$6,466
Developmental Disabilities Administrator		0.1	\$82,344	\$8,234
Secretary		0.2	\$40,440	\$8,088
•				
Administrative Support Staff & Business S	Services			
Quality Assurance/Safety		0.1	\$115,000	\$11,500
Human Resource Consultant 2		0.1	\$62,748	\$6,275
IT System Administration		0.1	\$81,840	\$8,184
Accounting/Billing		0.1	\$64,750	\$6,475
	FTE Total 6 Bed Home	11.4	Annual Salary & Wages 1 Home	\$646,642
	FTE Total 5x 6 Bed Facilties	56.8	Annual Salary & Wages 5 Homes	\$3,233,211

ARE FACILITY B Y DAILY SHIFT

6:30 am - 3:00 pm 3:00 pm - 11:00 pm 11:00pm-7:00am sistant (CNA)/AStaffing Plan: 30-Bed Facility
N)
2.5

9.5 8.5 5.5 8 8 8 76 68 44 2.3 2.5 1.5

Hrs/Day	Hrs/Week	FTE's @ 40 Hrs
		Per Week
144	1008	25.2
44	308	7.7
188	1316	
8		
188	1316	32.9
6.3		

188 6.3

DSHS - Community Nursing Care Homes Predesign Staffing Plan - 3QtBedeFacilitys

v3.1.22 CNA/AC 0.26 7.7 RN

STAFFING PLAN FOR 30 BED NURSING CARE FRAILITY BY TYPE OF STAFFIBNODAILY SHIFT 32.9

DIRECT NURSING SERVICES

CAL & OTHER CLINICAL

ensus/Day

BE	DS FTEs		FTES	FTEs Per Bed				
d Nurse Practiti 39	er (ARN ≱∤.9		0.5	0.02				
			0.5	0.02	6:30 am - 3:00 pm	3:00 pm - 11:00 pm	11:00pm-7:00am	Hrs/Day
pist (OT)			1.0	0.03				
PT)	# of Staff	Certified	d Nursing Assista	nt (CNA.)∱sttendant Counselor	7	7	4	144
,			ed/Nurse (RN)	0.01	2.5	1.5	1.5	44
		Total	0.5	0.02	9.5	8.5	5.5	188
athologist (SLP)	Hrs/Shift		0.5	0.02	8	8	8	
	Total Hrs	/Shift	4.2	0.14	76	68	44	188
	Total Nu	rsing Hou	rs/Patient Censi		2.5	2.3	1.5	6.3

FTE/Bed Total FTEs/30 Beds CNA/AC 25.2 32.9 7.7 RN 0.26 **Total** 1.10 32.9

MEDICAL & OTHER CLINICAL		
	FTES	FTEs Per Bed
Advanced Registered Nurse Practitioner (ARNP)	0.5	0.02
Dietician	0.5	0.02
Occupational Therapist (OT)	1.0	0.03
Physical Therapist (PT)	1.0	0.03
Physicians	0.2	0.01
Social Worker	0.5	0.02
Speech-Language Pathologist (SLP)	0.5	0.02
Total FTEs	4.2	0.14

TOTAL MEDICAL & OTHER CLINICAL	4.20
TOTAL NURSING SERVICES	32.9
TOTAL	37.10



Staffing & Salaries Projections: 30-Bed Facility

DSHS - Community Nursing Care Homes Predesign Staffing Plan - 30-Bed Facility v3.1.22

- 40 I			
Staffing Plan	FTEs	Salaries Based on 1.0 FTE	Salary Total
Nursing Services	26.0	Non-Union Step K, RN - Level Q	Ć1 102 104
Nursing Assistant - Residential Living/Attendant Counselor 1	26.0	\$45,504	\$1,183,104
Registered Nurse (RN) Level 1	6.0 2.0	\$87,048	\$522,288
Registered Nurse (RN) Level 3	2.0	\$111,504	\$223,008
Medical & Behavioral Health Services			
Advanced Registered Nurse Practitioner (ARNP)	0.5	\$135,852	\$67,926
Physician 3	0.2	\$229,968	\$45,994
Social Worker 2	0.5	\$69,264	\$34,632
Social Worker 2	0.5	Ç03,20 î	43 1,032
Therapy Services			
Occupational Therapist 2	1.0	\$64,332	\$64,332
Physical Therapist 2	1.0	\$70,956	\$70,956
Speech Pathologist 1	0.5	\$82,344	\$41,172
Administrative Support Staff			
Director/Administrator	1.0	\$120,000	\$120,000
Assistant Director	0.5	\$58,000	\$29,000
Nurse Manager/Registered Nurse (RN) 4	1.0	\$123,072	\$123,072
Nurse Educator/Registered Nurse (RN) 3	1.0	\$111,504	\$111,504
Recreation Therapist 2	1.0	\$56,856	\$56,856
Admissions & Transitions Coordinator/Social Work Assistant	1.0	\$54,108	\$54,108
Unit/Front Desk Secretary	2.0	\$40,440	\$80,880
Environmental Services			
Custodian 2	4.0	\$39,528	\$158,112
Dietary & Food Services			
Dietician 1	0.5	\$58,260	\$29,130
Food Service Worker	4.0	\$37,728	\$150,912
		. ,	, ,
Administrative Support & Business Services			
Clinical Quality Specialist	0.5	\$115,000	\$57,500
Human Resource Consultant 2	0.5	\$62,748	\$31,374
Accounting/billing	0.5	\$60,750	\$30,375
IT System Administration	0.5	\$81,840	\$40,920
FTE Total 30 Bed Fa	cility 55.7	Annual Salary & Wages	\$3,327,155

DSHS Statewide Community Nursing Care Homes bcra SAGEALLIANCE 77



Cost Estimate: 6-Bed Facility



DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY TACOMA, WA PRELIMINARY DESIGN ESTIMATE

ESTIMATE ISSUE DATE: April 11, 2022

ESTIMATE REVISION: 3

Submitted To:

JIM WOLCH, ASSOCIATE PRINCIPAL 2106 PACIFIC AVENUE, SUITE 300 **TACOMA, WA 98402**

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY TACOMA, WA

PRELIMINARY DESIGN ESTIMATE

CLARIFICATIONS AND ASSUMPTIONS



RC Cost Group Estimating Team:

Lead Estimator: Andy Cluness Architectural: Andy Cluness Structural: Andy Cluness Mechanical: Neil Watson Electrical: Neil Watson

Civil: Andy Cluness / Neil Watson Landscape: Andy Cluness

QA/QC: John Perry **Design Documentation:**

BCRA Design Documents

Exclusions from Construction Cost:

Design fees

Owners administration costs

Building and land acquisition fees

Legal and accounting fees

Removal of unforeseen underground obstructions

Owner's furniture, furnishings and equipment

Owners supplied materials

Moving owners equipment and furniture

Compression of schedule, premium or shift work

Assessments, finance, legal and development charges

Builder's risk, project wrap-up and other owner provided insurance program

Building demolition

AV Equipment

Escalation

Assumption used in establishing the estimate:

The project will be procured utilizing the design, bid, build project delivery method

Open and competitive bidding among all proportions of the work

Construction Start Date: To Be Decided

Items that may affect the cost estimate:

Modifications to the scope of work included in this estimate.

Special phasing requirements other than mentioned above.

Restrictive technical specifications or excessive contract conditions.

Any non-competitive bid situations.

Bids delayed beyond the projected schedule.

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY TACOMA, WA



PRELIMINARY DESIGN ESTIMATE Date: April 11, 2022

UVERALL S	SUMMARY CONSTRUC	TION COST		
		GFA	\$/SF	\$
Building		6,000 SF	445.99	2,675,928
Sitework		22,400 SF	20.50	459,200
Off-Site Improvements, Allowance				40,000
Building Demolition & HAZMAT, Assumed Not Requ	uired			N/A
SU	BTOTAL DIRECT COST			3,175,128
General Conditions & General Requirements	11.50%			365,140
Estimating Contingency	20.00%			708,054
Escalation	5.00%			669,642
	SUBTOTAL			4,917,964
Insurance & Bonds	1.50%			73,769
Overhead & Fee	4.00%			196,719
TOTAL CONSTRUCTION COST "TO	C" (EXCLUDING WSST)			5,188,452
Alternates Alternate 1: Net Zero Alternate				389,820

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY TACOMA, WA

PRELIMINARY DESIGN ESTIMATE DATE: April 11, 2022

BUILDING DATA

D :: ::		D :: !:	
Ruildina	Δrea.	Building	
Dunanna	AI Cu.	Dunanna	

Residence 5,000 SF Garage 1,000 SF

> **Total Gross Floor Area** 6,000 SF

Mechanical Mezzanine / Catwalks

Total Unoccupied Space (Excluded from GFA)

		Quantity	Unit	Ratio to Gross Area
Number of stories (x1,000)		1	EA	0.167
Gross Area		6,000	SF	1.000
Enclosed Area		6,000	SF	1.000
Footprint Area		1,000	SF	0.167
Suspended Slab		-	SF	
Gross Wall Area		5,546	SF	0.924
Retaining Wall Area (Excludes Stem \	Walls)	-	SF	
Opaque Finished Wall Area		5,052	SF	0.842
Windows or Glazing Area	8.91%	494	SF	0.082
Roof Area		8,351	SF	1.392
Interior Partition Length		710	LF	0.118
Interior Doors Per Leaf		123	EA	0.021
Interior Glazing		150	SF	0.025
Finished Area		6,000	SF	1.000
Elevators (x10,000)		-	EA	

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY

TACOMA, WA	A						RU
PRELIMINAR	Y DESIGN ESTIMATE			GROSS FLOOR AREA:		6,000 SF	
BUILDING ES	TIMATE			DATE:			COST GROUP
No. El	LEMENT DESCRIPTION	EL	EMENT TOTAL	GROUP TOTAL		COST	PER SF
A10 F0	DUNDATIONS			\$ 170,825			\$ 28.47
A1010	Standard Foundation	\$	83,525		\$	13.92	
A1020	Special Foundation	\$	-		\$	-	
A1030	Slab on grade	\$	87,300		\$	14.55	
	ASEMENT WALL CONSTRUCTION			\$ -			\$ -
A2010	Basement Excavation	\$	-		\$	-	
A2020	Basement Wall Construction	\$	-		\$	-	
	UPERSTRUCTURE		211722	\$ 316,733		50.70	\$ 52.79
B1010	Floor & Roof Construction	\$	316,733	Δ F00.040	\$	52.79	0716
	XTERIOR ENCLOSURE	^	450.007	\$ 522,949	<u> </u>	75.16	\$ 87.16
B2010	Exterior Walls	\$ \$	450,987		\$ \$	75.16	
B2020 B2030	Exterior Windows Exterior Doors	\$	42,237		\$	7.04 4.95	
	OOFING	ş	29,725	\$ 221,393	Ş	4.95	\$ 36.90
B3010	Roofing	\$	221,393	\$ 221,393	\$	36.90	\$ 30.90
	ITERIOR CONSTRUCTION	,	221,393	\$ 282,563	Ų	30.90	\$ 47.09
C1010	Partitions	\$	173,617	Ų 202,300	\$	28.94	Ų 47.03
C1010	Interior Doors	\$	70,975		\$	11.83	
C1030	Fittings and Specialties	\$	37,972		\$	6.33	
	TAIRS	•	31,112	\$ -	Ť		\$ -
C2010	Stair Construction	\$	-		\$	-	
C30 IV	ITERIOR FINISHES			\$ 182,400			\$ 30.40
C3010	Wall Finishes	\$	51,000		\$	8.50	
C3020	Floor Finishes	\$	59,400		\$	9.90	
C3030	Ceiling Finishes	\$	72,000		\$	12.00	
	ONVEYING			\$ -			\$ -
D1010	Elevators & Lifts	\$	-		\$	-	
	LUMBING			\$ 135,000			\$ 22.50
D2010	Plumbing	\$	135,000	A	\$	22.50	A 16.67
	VAC HVAC	Ś	000.000	\$ 280,000	,	46.67	\$ 46.67
D3010	RE PROTECTION	\$	280,000	\$ 40,755	\$	46.67	\$ 6.79
D40 FI	Sprinkler System	\$	40,755	\$ 40,755	\$	6.79	\$ 6.79
	LECTRICAL	ş	40,755	\$ 426,610	Ş	0.79	\$ 71.10
D5000	Electrical	\$	426,610	\$ 420,010	\$	71.10	\$ 71.10
	QUIPMENT	,	420,010	\$ 38,200	Ų	71.10	\$ 6.37
E1010	Equipment	\$	38,200	Ψ 30,200	\$	6.37	ψ 0.57
	XED FURNISHINGS	· ·	00,200	\$ 58,500	Ť	0.07	\$ 9.75
E2010	Fixed Furnishings	\$	58,500		\$	9.75	
	PECIAL CONSTRUCTION	Ţ.	22,230	\$ -	Ť		\$ -
F1010	Special Structure	\$	-				
F1020	Special Construction	\$	-				
	ELECTIVE BUILDING DEMOLITION			\$ -			\$ -
F2010	Building Flomente Demolition	¢	_				

F2010 Building Elements Demolition

Sub-Total Direct Cost

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY TACOMA, WA

PRELIMINARY DESIGN ESTIMATE **BUILDING ESTIMATE**





	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
A10	FOUNDATIONS				
A1010	Standard Foundation				
	A1011 Foundations				
	Reinforced concrete continuous footings				
	Excavate for continuous footings	132	CY	49 00 In	site earthwork
	Backfill, assume imported fill	80	CY		site earthwork
	Disposal of excavated material off-site within 8 miles,		0.	01100 111	one carmon
	assumed a 33% swell factor	176	CY	28.25 In	site earthwork
	Fine grade bottom of footing	1,067	SF	1.10	1,174
	Formwork to foundations - sides	1,021	SF	12.75	13,013
	Reinforcing steel in foundations	6,441	LB	1.70	10,950
	Concrete, 4,000 psi	52	CY	295.00	15,281
	Finish to top of footing	1,067	SF	1.25	1,334
	Reinforced concrete footings at porch areas				
	Excavate for continuous footings	14	CY	49.00 In	site earthwork
	Backfill, assume imported fill	8	CY		site earthwork
	Disposal of excavated material off-site within 8 miles,				
	assumed a 33% swell factor	18	CY	28.25 In	site earthwork
	Fine grade bottom of footing	264	SF	1.10	290
	Formwork to foundations - sides	24	SF	12.75	306
	Reinforcing steel in foundations	669	LB	1.70	1,137
	Concrete, 4,000 psi	5	CY	295.00	1,586
	Finish to top of footing	264	SF	1.25	330
	A1012 Column foundations				
	Reinforced concrete spread footings at building				
	Excavate for spread footings	41	CY	49.00 In	site earthwork
	Backfill, assume imported fill	25	CY	51.00 In	site earthwork
	Disposal of excavated material off-site within 8 miles,				
	assumed a 33% swell factor	54	CY	28.25 In	site earthwork
	Fine grade bottom of footing	257	SF	1.10	283
	Formwork to foundations - sides	332	SF	12.75	4,233
	Reinforcing steel in foundations	1,794	LB	1.70	3,051
	Concrete, 4,000 psi	16	CY	295.00	4,603
	Finish to top of footing	257	SF	1.25	321
	A1013 Perimeter drainage and insulation				
	Perimeter drainage included in storm water estimate				N/A
	Perimeter insulation	1,210	SF	5.10	6,171
	Miscellaneous				
	Reinforced concrete stem walls	10	CY	1,150.00	10,962
	Dampproofing, not required				N/A
	Concrete supervision, clean up and small tools	1	LS	8,500.00	8,500
	Total For Standard	d Foundations			83,525
A1020	Special Foundation				
	No work anticipated				N/A
	·				14/1
	Total For Specia	l Foundations			

Page 6 of 14

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY TACOMA, WA

PRELIMINARY DESIGN ESTIMATE

Gross Floor Area: 6,000 SF **BUILDING ESTIMATE** Anril 11 2022



UILDING EST	IMATE		Date:	April 11, 2022	COST GROUP
r	TEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
A1030 <u>S</u>	Slab on Grade				
А	A1031 Standard slab on grade Reinforced concrete slab on grade, 4" thick and base at building area Reinforced concrete slab on grade, 4" thick and base at	5,000	SF	10.80	54,000
	garage area Concrete supervision, clean up and small tools	1,000 1	SF LS	10.80 22,500.00	10,800 22,500
	Total For S	Slab on Grade			87,300
A20 B	BASEMENT CONSTRUCTION				
A2010 <u>B</u>	Basement Excavation				
N	No work anticipated				N/A
	Total For Baseme	nt Excavation			
A2020 <u>B</u>	Basement Walls				
N	No work anticipated				N/A
	Total For Ba	sement Walls			
B1010 <u>R</u>	Roof Construction				
В	31010 Roof Construction Mechanical mezzanine construction				N/A
	Roof construction Wood posts / Built up studs LVL posts Tube steel posts Tube steel beams Moment connections 11 7/8" Red I45 at 2'-0" o.c. 11 7/8" Red I65 at 2'-0" o.c. 14" Red I65 at 2'-0" o.c. 16" Red I65 at 2'-0" o.c. 20" Red I65 at 2'-0" o.c. Glu laminated beams Headers 2 x 8 at 2'-0" o.c. Outriggers at exterior overhangs, 2 x 8 at 2'-0" o.c. Plywood sheathing Fiberglass insulation at underside of roof, R1 Safety / wisha - Install and maintain	758 155 9,332 1,301 4 2,404 409 1,382 299 1,028 6,124 393 143 977 7,802 7,802	BM BM LB LB SF SF SF SF SF SF SF SF LS	10.15 21.60 3.85 3.85 671.00 17.40 17.60 19.00 20.00 22.10 10.80 8.85 8.85 8.85 4.00 5.30 6,000.00	7,689 3,352 35,927 5,009 2,684 41,833 7,193 26,259 5,987 22,715 66,140 3,479 1,265 8,642 31,208 41,350 6,000
	Total For Floor & Roof	Construction			316,733

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY TACOMA, WA

PRELIMINARY DESIGN ESTIMATE **BUILDING ESTIMATE**



	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
20	EXTERIOR CLOSURE				
2010	Exterior Walls				
	B2011 Exterior wall construction				
	Hardi siding, wood toned, FC-1	2,399	SF	26.75	64,168
	Ceraclad siding, FC-2, FC-3	1,187	SF	40.00	47,49
	Hardi panel siding, FC-4	97	SF	38.00	3,67
	Brick veneer	1,369	SF	48.00	65,73
	Stud framing	5,052	SF	11.50	58,10
	Batt insulation	5,052	SF	1.75	8,84
	Vapor barrier	5,052	SF	3.10	15,66
	Sheathing-Plywood	5,052	SF	4.60	23,24
	Add for shear nailing	1	LS	3,500.00	3,50
	Add for glazed openings-framing, headers	1	LS	6,000.00	6,00
	Add for door openings-framing, headers per leaf	6	EA	265.00	1,59
	Vapro shield "self adhered"	5,052	SF	6.55	33,09
	Gypsum board, 5/8"	5,052	SF	4.10	20,71
	Concealed clip system @ FC-2, FC-3	1,187	SF	7.50	8,90
	Hat channel and Z furring @ FC-4	97	SF	6.75	65
	Fascia / Trim, prefinished metal	1	LS	8,000.00	8,00
	B2013 Exterior louvers, screens and fencing				
	Louvers	20	SF	82.00	1,64
	B2014 Exterior sun control devices				
	Sunscreens, not required				N/
	B2016 Exterior soffits				
	Exterior car decking at soffits	2,736	SF	26.40	72,22
	Caulking, sealants and firestopping				
	Caulking, sealants and firestopping at exterior	6,000	GFA	0.45	2,70
	Miscellaneous				
	Hold downs	22	EA	148.00	3,256
	CST/CMST strapping	1	LS	1,800.00	1,800
	Total	For Exterior Walls			450,98
2020	Exterior Windows				
	B2021 Windows				
	Aluminum framed windows	234	SF	85.50	20,00
	B2023 Storefronts				
	Aluminum storefront glazing	260	SF	85.50	22,23
		Exterior Windows			42,23

Page 8 of 14

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY TACOMA, WA

B3022 Roof hatches

Fall restraint anchors

Miscellaneous

Roof access hatches, not required

PRELIMINARY DESIGN ESTIMATE Gross Floor Area: 6,000 SF **BUILDING ESTIMATE** COST GROUP April 11, 2022 Date: ITEM DESCRIPTION QUANTITY UNIT **UNIT COST TOTALS** B2030 Exterior Doors B 2030 Exterior Doors Aluminum glazed single door, 3'-0" x 7'-0" 3 4.650.00 13.950 EΑ Holow metal door, 3'-0"x 7'-0" 2 EΑ 2,800.00 5,600 Garage door 5,675.00 5,675 1 EΑ Specialty hardware LS 4,500.00 4,500 Total For Exterior Doors 29,725 B30 ROOFING B3010 Roof Covering **B3011 Roof finishes** Membrane roofing system, incl coverboard & rib profile 8,351 SF 19.74 164,841 B3014 Flashings and trim Sheet metal flashings and trim 1 LS 14,000.00 14,000 B3016 Gutters and downspouts Guttering, prefinished sheet metal 301 LF 29.40 8,849 Downspouts, prefinished sheet metal 10 EΑ 310.00 3,100 B3021 Glazed roof openings Translucent skylight panels 150 SF 95.00 14,250

					,
C10	INTERIOR CONSTRUCTION				
C1010	<u>Partitions</u>				
	C1011 Fixed partitions				
	Interior partitions	7,236	SF	19.35	140,017
	Add for shear nailing	1	LS	4,000.00	4,000
	Add for abuse reistant GWB	1	LS	8,250.00	8,250
	C1016 Interior balustrades and screens				
	Wood railings			N/A	ı
	C1017 Interior windows and storefronts				
	Interior glazing	150	SF	74.00	11,100
	Miscellaneous				
	Blocking and backing	1	LS	3,500.00	3,500
	Window sills and trim	1	LS	3,250.00	3,250
	Firestopping	1	LS	3,500.00	3,500
	То	tal For Interior Partitions			173,617

16

Total For Roofing

EΑ

N/A

16,352

221,393

1,022.00

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY

TACOMA, WA

PRELIMINARY DESIGN ESTIMATE 6,000 SF Gross Floor Area: **BUILDING ESTIMATE** COST GROUP Date: April 11, 2022 ITEM DESCRIPTION QUANTITY UNIT **UNIT COST TOTALS** C1020 Interior Doors C1021 Interior doors Solid core wood door, Single 15 FΔ 2,750.00 41,250 Solid core wood door, Double 1 EΑ Pocket doors 7 EΑ 2,050.00 14,350 Bi-fold doors 1,750.00 3,500 2 EΑ Access doors LS 1,875.00 1,875 1 Specialty hardware 10,000.00 10,000 LS **Total For Interior Doors** 70,975 C1030 **Specialties** C1033 Storage shelving and lockers 565 Janitors mop rack and shelf 1 EΑ 565.00 3,000.00 3,000 Locker allowance 1 LS C1035 Identifying devices 9,900 **GFA** 1.65 Signage 6,000 C1037 General fittings and misc. metals Miscellaneous metals, allow 0.3#/SF 1,800 LB 3.00 5,400 Fire extinguisher cabinets 2 EΑ 253.31 507 Cornerquards EΑ 275.00 3,300 12 10,800.00 10,800 Restroom and shower accessories 1 LS 1 LS 4,500.00 4,500 Miscellaneous graphics **Total For Fittings and Specialty Items** 37,972 C20 STAIRS C2010 **Stair Construction** No work anticipated N/A **Total For Stair Construction INTERIOR FINISHES** C3010 Wall Finishes



24,000

27,000

51,000

C3012 Wall finishes to interior walls

Miscellaneous wall finishes

Interior painting

6,000

6,000

Total For Wall Finishes

GFA

GFA

4.00

4.50

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY

TACOMA, WA

PRELIMINARY DESIGN ESTIMATE Gross Floor Area: 6,000 SF



THEM DESCRIPTION QUANTITY UNIT UNIT CONTINUE CONTINUE		RY DESIGN ESTIMATE STIMATE	Gross Flo	Date:	6,000 SF April 11, 2022	COST GROU
C3024 Flooring including base Floor leveling Floor floor leveling Floor finishes Floor floor finishes Floor floor finishes Floor floor floor finishes Floor fl		ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
Floor levelling	C3020	Floor Finishes				
C3031 Ceiling Finishes		Floor leveling				
Calon Calo			Total For Floor Finishes			59,400
Ceiling finishes	C3030	<u>Ceiling Finishes</u>				
D101 VERTICAL TRANSPORTATION			6,000	SF	12.00	72,000
D1010 Elevator & Lift No work anticipated N/A			Total For Ceiling Finishes			72,000
No work anticipated Total For Elevator & Lifts	D10	VERTICAL TRANSPORTATION				
D20 PLUMBING Plumbing	D1010	Elevator & Lift				
D2010 Plumbing Plumbing systems, complete 6,000 GFA 22.50 135,000		No work anticipated				N/A
D2010 Plumbing Plumbing systems, complete 6,000 GFA 22.50 135,000 Total For Plumbing 135,000 D3010 HVAC HVAC Systems, conditioned 5,000 GFA S6.00 56.00 280,000 HVAC Systems, unconditioned 1,000 GFA 56.00 280,000 D40 FIRE PROTECTION D4010 Sprinklers			Total For Elevator & Lifts			
Plumbing systems, complete 6,000 GFA 22.50 135,000	D20	PLUMBING				
Total For Plumbing 135,000	D2010	Plumbing				
D30		Plumbing systems, complete	6,000	GFA	22.50	135,000
D3010 HVAC HVAC Systems, conditioned 5,000 GFA 56.00 280,000 Total For HVAC 280,000 D40 FIRE PROTECTION D4010 Sprinklers Fire suppression at main level 6,000 GFA 6.25 37,500 Fire suppression at mezzanine - SF 6.02			Total For Plumbing			135,000
HVAC Systems, conditioned 5,000 GFA 56.00 280,000 HVAC Systems, unconditioned 1,000 GFA	D30	HVAC				
HVAC Systems, unconditioned 1,000 GFA 280,000	D3010	HVAC				
D4010 FIRE PROTECTION D4010 Sprinklers Fire suppression at main level Fire suppression at mezzanine - SF 6.002					56.00	280,000
D4010 Fire Protection D4010 Sprinklers Fire suppression at main level Fire suppression at mezzanine 6,000 GFA 6.25 37,500 Fire suppression at mezzanine - SF 6.02			Total For HVAC			280,000
D4010 Sprinklers Fire suppression at main level 6,000 GFA 6.25 37,500 Fire suppression at mezzanine - SF 6.02	D40	FIRE PROTECTION				
Fire suppression at main level 6,000 GFA 6.25 37,500 Fire suppression at mezzanine - SF 6.02	D4010	Fire Protection				
		Fire suppression at main level	6,000			37,500
			310			3,255

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY TACOMA, WA

PRELIMINARY DESIGN ESTIMATE **BUILDING ESTIMATE**



			,	
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
ELECTRICAL				
00 <u>Electrical</u>				
D5010 Electrical Service and Distribution	6,000	GFA	13.28	79,680
Photovoltaic system, roof, add alternate				N/A
D5020 Lighting and Branch Wiring				
Machine and equipment power	6,000	GFA	3.75	22,500
User convenience power	6,000	GFA	5.25	31,500
Lighting systems	6,000	GFA	10.63	63,780
Lighting controls	6,000	GFA	3.35	20,100
D5031 Public address and music systems				
Head-end equipment	1	LS	4,000.00	4,000
Speakers including conduit and wire	10	EA	615.00	6,150
D5033 Telephone/data systems				
Telecomms	6,000	GFA	4.75	28,500
D5034 Call systems				
Call systems	6,000	GFA	3.05	18,300
D5035 AV/TV systems				
TV head-end equipment	1	LS	1,650.00	1,650
TV outlets including conduit and cable	6,000	GFA	0.50	3,000
D5037 Fire alarm system				
Fire alarm at building area	6,000	GFA	4.10	24,600
Fire alarm to mezzanine areas	-	SF	3.35	
D5038 Security and detection systems				
Access control/intruder detection	6,000	GFA	4.25	25,500
CCTV systems	6,000	GFA	3.55	21,300
D5091 Grounding systems				
Grounding	6,000	GFA	0.40	2,400
D5092 Emergency light and power systems				
Generator	-		E 4 E 0 C C	See Sitework
Lighting inverter	1	EA	5,150.00	5,150
Generator disconnect	1	EA	15,500.00	15,500
Automatic transfer switch Feeder conduit and wire	1 50	EA LF	25,750.00	25,750
reeuer conduit and wire	50	LF	395.00	19,750
D5095 General construction items	4	1.0	7.500.00	7.500
Testing	1	LS	7,500.00	7,500
	Total For Electrical			426,610

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY

TACOMA, WA

PRELIMINARY DESIGN ESTIMATE Gross Floor Area: **BUILDING ESTIMATE** Date:



6,000 SF

JILDING E	STIMATE	Gross Floo	Date:	6,000 SF April 11, 2022	COST GROUP
	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
E10	EQUIPMENT				
E1010	Equipment				
	E1094 Residential equipment Residential equipment Washer / dryer	1	LS LS	6,500.00 5,200.00	6,500 5,200
	Miscellaneous Miscellaneous equipment, allow Owner furnished, contractor installed items	1 1	LS LS	24,500.00 2,000.00	24,500 2,000
		Total For Equipment			38,200
E20	FIXED FURNISHINGS				
E2010	Fixed Furnishing				
	E2012 Fixed casework Casework	6,000	GFA	7.50	45,000
	E2013 Blinds and other window treatments Windoow treatments	1	LS	13,500.00	13,500
	Total Fo	or Fixed Furnishings			58,500
F10	SPECIAL STRUCTURES				
F1010	Special Structure				
	No work anticipated				N/A
	Total Fo	or Special Structure			
F1020	Special Construction				
	No work anticipated				N/A
	Total For S	pecial Construction			
F20	SELECTIVE BUILDING DEMOLITION				
F2010	Building Elements Demolition				
	No work anticipated				N/A
	Total For Selective	Building Demolition			

DEPARTMENT OF SOCIAL & HEALTH SCIENCES 6 BED NURSING FACILITY TACOMA, WA PRELIMINARY DESIGN ESTIMATE ALT



TERNATES		Date:	April 11, 2022	COST GROUP
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
Alternate 1: Net Zero Alternate				
Photovoltaic system	1	LS	276,000.00	276,000
	Sub-Total			276,000
General Conditions & General Requirements	11.50%			31,740
Estimating Contingency	20.00%			61,548
Escalation				
	Sub-Total			369,288
Insurance & Bonds	1.50%			5,539
Overhead & Fee	4.00%			14,993
	Total Construction Cost			389.820

Page 14 of 14



Cost Estimate: 30-Bed Facility



DEPARTMENT OF SOCIAL & HEALTH SCIENCES 30 BED NURSING FACILITY TACOMA, WA PRELIMINARY DESIGN ESTIMATE

ESTIMATE ISSUE DATE: March 8, 2022

ESTIMATE REVISION:

Submitted To:

JIM WOLCH, ASSOCIATE PRINCIPAL 2106 PACIFIC AVENUE, SUITE 300 **TACOMA, WA 98402**

PRELIMINARY DESIGN ESTIMATE



CLARIFICATIONS AND ASSUMPTIONS

RC Cost Group Estimating Team:

Lead Estimator: Andy Cluness Architectural: Andy Cluness Structural: Andy Cluness Mechanical: Neil Watson Electrical: Neil Watson

Civil: Andy Cluness / Neil Watson Landscape: Andy Cluness

QA/QC: John Perry

Design Documentation:

BCRA Design Documents **Exclusions from Construction Cost:**

Design fees

Owners administration costs

Building and land acquisition fees

Legal and accounting fees

Removal of unforeseen underground obstructions

Owner's furniture, furnishings and equipment

Owners supplied materials

Moving owners equipment and furniture

Compression of schedule, premium or shift work

Assessments, finance, legal and development charges

Builder's risk, project wrap-up and other owner provided insurance program

Building demolition

AV Equipment

Escalation

Assumption used in establishing the estimate:

The project will be procured utilizing the GC-CM alternative project delivery method

Open and competitive bidding among all proportions of the work

Construction Start Date: TBD

Items that may affect the cost estimate:

Modifications to the scope of work included in this estimate.

Special phasing requirements other than mentioned above.

Restrictive technical specifications or excessive contract conditions.

BAINBRIDGE ISLAND, WA | TACOMA, WA | PORTLAND, OR | www.rccostgroup.com

Any non-competitive bid situations.

Bids delayed beyond the projected schedule.

Alternate 1: Net Zero Alternate

Date: March 8, 2022



1,910,120

PRELIMINARY DESIGN ESTIMATE **OVERALL SUMMARY CONSTRUCTION COST** \$/SF GFA Ś 28,000 SF Building 536.15 15,012,306 Garage - 3 Bay 1,300 SF 190.00 247,000 Sitework 126,000 SF 20.50 2,583,000 Off-Site Improvements, Allowance 650,000 Building Demolition & HAZMAT, Assumed Not Required N/A SUBTOTAL DIRECT COST 18,492,306 General Conditions and General Requirements 11.50% 2,126,615 Estimating contingency 20.00% 4,123,784 Escalation 5.00% 3,900,069 **SUBTOTAL** 28,642,774 SUBTOTAL 28,642,774 Insurance & Bonds 1.50% 429,642 Overhead and Fee 4.00% 1,145,711 **SUBTOTAL** 30,218,127 TOTAL CONSTRUCTION COST "TCC" (EXCLUDING WSST) 30,218,127 **Alternates**

bcra SAGEALLIANCE DSHS Statewide Community Nursing Care Homes

PRELIMINARY DESIGN ESTIMATE DATE: March 8, 2022



BUILDING DATA

Building Area: Building

Level 1 28,000 SF

Total Gross Floor Area	28,000 SF
Mechanical Mezzanine / Catwalks	3,250 SF
Total Unoccupied Space (Excluded from GFA)	3,250 SF

		Quantity	Unit	Ratio to Gross Area
Number of stories (x1,000)		1	EA	0.036
Gross Area		28,000	SF	1.000
Enclosed Area		28,000	SF	1.000
Footprint Area		28,000	SF	1.000
Suspended Slab		-	SF	
Gross Wall Area		24,259	SF	0.866
Retaining Wall Area (Excludes Ster	n Walls)	-	SF	
Opaque Finished Wall Area		20,049	SF	0.716
Windows or Glazing Area	17.36%	4,210	SF	0.150
Roof Area		34,294	SF	1.225
Interior Partition Length		2,901	LF	0.104
Interior Doors Per Leaf		123	EA	0.004
Interior Glazing		1,320	SF	0.047
Finished Area		28,000	SF	1.000
Elevators (x10,000)		-	EA	

PRELIMINARY DESIGN ESTIMATE



UILDING E	STIMATE			DATE:	March 8, 2022	COS	TGROU
	LEMENT DESCRIPTION	EL	EMENT TOTAL	GROUP TOTAL	COST		
.10 F	FOUNDATIONS			\$ 840,812		\$	30.03
A1010	Standard Foundation	\$	448,412	\$	16.01		
A1020	Special Foundation	\$	-	\$	-		
A1030	Slab on grade	\$	392,400	\$	14.01		
20 E	BASEMENT WALL CONSTRUCTION			\$		\$	-
A2010	Basement Excavation	\$	-	\$	-		
A2020	Basement Wall Construction	\$	-	\$	-		
10 S	SUPERSTRUCTURE			\$ 1,452,310		\$	51.8
B1010	Floor & Roof Construction	\$	1,452,310	\$	51.87		
20 E	EXTERIOR ENCLOSURE			\$ 2,414,052		\$	86.2
B2010	Exterior Walls	\$	1,796,289	\$	64.15		
B2020	Exterior Windows	\$	493,763	\$	17.63		
B2030	Exterior Doors	\$	124,000	\$	4.43		
30 F	ROOFING			\$ 1,126,485		\$	40.2
B3010	Roofing	\$	1,126,485	\$	40.23		
10 II	NTERIOR CONSTRUCTION			\$ 1,513,779		\$	54.0
C1010	Partitions	\$	962,994	\$	34.39		
C1020	Interior Doors	\$	374,150	\$	13.36		
C1030	Fittings and Specialties	\$	176,635	\$	6.31		
20 S	STAIRS			\$		\$	
C2010	Stair Construction	\$	-	\$	-		
30 II	NTERIOR FINISHES			\$ 1,022,000		\$	36.
C3010	Wall Finishes	\$	336,000	\$	12.00		
C3020	Floor Finishes	\$	277,200	\$	9.90		
C3030	Ceiling Finishes	\$	408,800	\$	14.60		
10 C	CONVEYING			\$		\$	
D1010	Elevators & Lifts	\$	-	\$	-		
20 F	PLUMBING			\$ 1,316,000		\$	47.
D2010	Plumbing	\$	1,316,000	\$	47.00		
	HVAC			\$ 1,895,961		\$	67.
D3010	HVAC	\$	1,895,961	\$	67.71		
	FIRE PROTECTION			\$ 227,078		\$	8.
D4010	Sprinkler System	\$	227,078	\$	8.11		
	ELECTRICAL			\$ 2,477,430		\$	88.
D5000	Electrical	\$	2,477,430	\$	88.48		
	EQUIPMENT			\$ 327,400		\$	11.
E1010	Equipment	\$	327,400	\$	11.69		
	FIXED FURNISHINGS			\$ 399,000		\$	14.:
E2010	Fixed Furnishings	\$	399,000	\$	14.25		
	SPECIAL CONSTRUCTION			\$ -		\$	-
F1010	Special Structure	\$	-				
F1020	Special Construction	\$	-				
	SELECTIVE BUILDING DEMOLITION			\$ -		\$	-
F2010	Building Elements Demolition	\$	-	45.040.004			F04-
	Sub-Total Direct Cost			\$ 15,012,306		\$	536.1

TACOMA, WA

PRELIMINARY DESIGN ESTIMATE

28,000 SF Gross Floor Area: **BUILDING ESTIMATE** March 8, 2022 Date:



	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
A10	FOUNDATIONS			_	
A1010	Standard Foundation				
	A1011 Foundations				
	Reinforced concrete continuous footings				
	Excavate for continuous footings	745	CY	49.00 In	site earthwork
	Backfill, assume imported fill	453	CY	51.00 In	site earthwork
	Disposal of excavated material off-site within 8 miles,				
	assumed a 33% swell factor	990	CY	28.25 In	site earthwork
	Fine grade bottom of footing	5,591	SF	1.10	6,150
	Formwork to foundations - sides	5,585	SF	12.75	71,202
	Reinforcing steel in foundations	36,316	LB	1.70	61,738
	Concrete, 4,000 psi	292	CY	295.00	86,155
	Finish to top of footing	5,591	SF	1.25	6,989
	Reinforced concrete footings at porch areas				
	Excavate for continuous footings	343	CY	49.00 In	site earthwork
	Backfill, assume imported fill	208	CY	51.00 In	site earthwork
	Disposal of excavated material off-site within 8 miles,				
	assumed a 33% swell factor	456	CY	28.25 In	site earthwork
	Fine grade bottom of footing	3,850	SF	1.10	4,235
	Formwork to foundations - sides	600	SF	12.75	7,650
	Reinforcing steel in foundations	16,718	LB	1.70	28,421
	Concrete, 4,000 psi	134	CY	295.00	39,661
	Finish to top of footing	3,850	SF	1.25	4,813
	A1012 Column foundations				
	Reinforced concrete spread footings at building				
	Excavate for spread footings	115	CY	49.00 In	site earthwork
	Backfill, assume imported fill	71	CY	51.00 In	site earthwork
	Disposal of excavated material off-site within 8 miles,				
	assumed a 33% swell factor	153	CY	28.25 In	site earthwork
	Fine grade bottom of footing	776	SF	1.10	854
	Formwork to foundations - sides	1,030	SF	12.75	13,133
	Reinforcing steel in foundations	5,095	LB	1.70	8,662
	Concrete, 4,000 psi	44	CY	295.00	13,070
	Finish to top of footing	776	SF	1.25	970
	A1013 Perimeter drainage and insulation				
	Perimeter drainage included in storm water estimate				N/A
	Perimeter insulation	3,555	SF	5.10	18,131
	Miscellaneous				
	Reinforced concrete stem walls	35	CY	1,150.00	40,580
	Dampproofing, not required			,	N/A
	Concrete supervision, clean up and small tools	1	LS	36,000.00	36,000
	Total For Standard	d Foundations			448,412
A1020	Special Foundation				
	-				\$1/4
	No work anticipated				N/A
	Total For Specia	I Farmalasiana			

Total For Special Foundations

A1030 Slab on Grade

A1031 Standard slab on grade

Page 6 of 15

TACOMA, WA

PRELIMINARY DESIGN ESTIMATE

Gross Floor Area:

28,000 :

BUILDING ESTIMATE

Date:

March 8, 20:



UILDING ES	STIMATE		Date:	March 8, 2022	COST GROUP
	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
	Reinforced concrete slab on grade, 4" thick and base at building area Concrete supervision, clean up and small tools	28,000 1	SF LS	10.80 90,000.00	302,400 90,000
	Total Fo	r Slab on Grade		_	392,400
A20	BASEMENT CONSTRUCTION				
A2010	Basement Excavation				
	No work anticipated				N/A
		. = .:			19/6
	Total For Basen	nent Excavation			
A2020	Basement Walls				
	No work anticipated				N/A
	Total For E	Basement Walls			
B1010	Roof Construction				
	B1010 Roof Construction Mechanical mezzanine construction Vertical structure included in roof construction (2) ply 2 x 10 Beam 2 x 10 framing at 1'-4" o.c. Plywood sheathing Gypcrete topping slab, not required Roof construction Wood posts / Built up studs LVL posts Tube steel posts Tube steel beams Moment connections 11 7/8" Red I45 at 2'-0" o.c. 11 7/8" Red I65 at 2'-0" o.c. 14" Red I65 at 2'-0" o.c. 20" Red I65 at 2'-0" o.c. Glu laminated beams Headers 2 x 8 at 2'-0" o.c. Outriggers at exterior overhangs, 2 x 8 at 2'-0" o.c. Plywood sheathing Fiberglass insulation at underside of roof, R1 Safety / wisha - Install and maintain	70 3,250 3,250 3,250 3,330 682 41,018 5,719 18 10,568 1,796 6,075 1,316 4,518 26,919 1,728 628 3,906 34,294 34,294	LF SF SF BM BM LB LB SF SF SF BM BM SF SF SF BM SF SF SF BM SF SF SF SF SF SF SF SF SF SF SF SF SF	40.00 14.50 4.45 10.15 21.60 3.85 3.85 671.00 17.40 17.60 19.00 20.00 22.10 10.80 8.85 8.85 8.85 4.00 5.30 25,200.00	N/A 2,800 47,125 14,463 N/A 33,800 14,736 157,921 22,020 12,078 183,880 31,617 115,425 26,316 99,848 290,725 15,293 5,560 34,568 137,178 181,760 25,200
	Total For Floor & Ro	of Construction			1,452,310
B20	EXTERIOR CLOSURE				
B2010	Exterior Walls				
	B2011 Exterior wall construction Hardi siding, wood toned, FC-1 Ceraclad siding, FC-2, FC-3	9,519 4,712	SF SF	26.75 40.00	254,633 188,480

TACOMA, WA

	Y DESIGN ESTIMATE STIMATE	Gross Flo	or Area: Date:	28,000 SF March 8, 2022	COST GR
	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
	Hardi panel siding, FC-4	384	SF	38.00	14,584
	Brick veneer	5,434	SF	48.00	260,832
	Stud framing	20,049	SF	11.50	230,561
	Batt insulation	20,049	SF	1.75	35,085
	Vapor barrier	20,049	SF	3.10	62,15
	Sheathing-Plywood	20,049	SF	4.60	92,224
	Add for shear nailing	1	LS	13,500.00	13,500
	Add for glazed openings-framing, headers	1	LS	25,000.00	25,000
	Add for door openings-framing, headers per leaf	20	EA	265.00	5,300
	Vapro shield "self adhered"	20,049	SF	6.55	131,32
	Gypsum board, 5/8"	20,049	SF	4.10	82,200
	Concealed clip system @ FC-2, FC-3	4,712	SF	7.50	35,340
	Hat channel and Z furring @ FC-4	384	SF	6.85	2,629
	Fascia / Trim, prefinished metal	1	LS	32,000.00	32,000
	B2013 Exterior louvers, screens and fencing				
	Louvers	50	SF	80.00	4,000
	B2014 Exterior sun control devices				N1 / /
	Sunscreens, not required				N/A
	B2016 Exterior soffits				
	Perforated sheet metal soffit, 24 gauge, AEP span prestige				
	series including framing	6,294	SF	40.90	257,44°
	Exterior car decking at entry, outdoor area	1,395	SF	26.40	36,828
	Caulking, sealants and firestopping Caulking, sealants and firestopping at exterior	28,000	GFA	0.45	12,600
	Miscellaneous				
	Hold downs	85	EA	148.00	12,580
	CST/CMST strapping	1	LS	7,000.00	7,000
	Total For E	xterior Walls			1,796,289
B2020	Exterior Windows				
	B2021 Windows				
	Aluminum framed windows	936	SF	85.50	80,028
	Patient windows with integral blinds and laminated glass	547	SF	330.00	180,576
	B2023 Storefronts				
	Aluminum storefront glazing	2,727	SF	85.50	233,159
	Total For Exter	ior Windows			493,763
B2030	Exterior Doors				
	B 2030 Exterior Doors				
	Aluminum glazed double door at entrances, 6'-0" x 7'-0"	7	EA	8,250.00	57,750
	Aluminum glazeu uouble uoor at emitances, 0-0-x /-0			4,650.00	27,900
		6	EA	4,030.00	27,700
	Aluminum glazed double door, 3'-0" x 7'-0" Aluminum glazed single door, 3'-0" x 7'-0" Gates at porches	6 3	EA EA	2,250.00	
	Aluminum glazed single door, 3'-0" x 7'-0" Gates at porches			•	6,750
	Aluminum glazed single door, 3'-0" x 7'-0"	3	EA	2,250.00	6,750 5,600 26,000

TACOMA, WA

PRELIMINARY DESIGN ESTIMATE

28,000 SF Gross Floor Area: **BUILDING ESTIMATE** Date: March 8, 2022



	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
B30	ROOFING				
B3010	Roof Covering				
	B3011 Roof finishes Prefinished standing seam metal roofing system, complete, 24 gauge, AEP Span	34,294	SF	26.40	905,372
	B3014 Flashings and trim Sheet metal flashings and trim	1	LS	63,000.00	63,000
	B3016 Gutters and downspouts Guttering, prefinished sheet metal Downspouts, prefinished sheet metal	622 24	LF EA	29.40 310.00	18,287 7,440
	B3021 Glazed roof openings Translucent skylight panels	662	SF	95.00	62,890
	B3022 Roof hatches Roof access hatches, not required				N/A
	Miscellaneous Fall restraint anchors	68	EA	1,022.00	69,496
	Tot	al For Roofing			1,126,485
C10	INTERIOR CONSTRUCTION				
C1010	<u>Partitions</u>				
	C1011 Fixed partitions Interior partitions Add for shear nailing Add for abuse reistant GWB	39,164 1 1	SF LS LS	19.35 16,000.00 35,000.00	757,814 16,000 35,000
	C1016 Interior balustrades and screens Wood railings	1	LS	12,500.00	12,500
	C1017 Interior windows and storefronts Interior glazing	1,320	SF	74.00	97,680
	Miscellaneous Blocking and backing Window sills and trim Firestopping	1 1 1	LS LS LS	15,000.00 14,000.00 15,000.00	15,000 14,000 15,000
	Total For Inte	rior Partitions			962,994
C1020	Interior Doors				
	C1021 Interior doors Aluminum glazed double door at interior of vestibule, 6'-0" x 7'-0"	1	EA		
	Solid core wood door, Single Solid core wood door, Double Pocket doors	89 7 18	EA EA EA	2,750.00 2,050.00	244,750 36,900
	Access doors Specialty hardware	1 1	LS LS	7,500.00 85,000.00	7,500 85,000

TACOMA, WA

PRELIMINARY DESIGN ESTIMATE

BUILDING ESTIMATE March 8, 2022 Date: ITEM DESCRIPTION QUANTITY UNIT **UNIT COST TOTALS**

Gross Floor Area:



28,000 SF

	Т	otal For Interior Doors			374,15
1030	Specialties				
	C1033 Storage shelving and lockers				
	Janitors mop rack and shelf Locker allowance	1 1	EA LS	565.00 8,500.00	56: 8,50
	Locker dilowance	'	LS	0,300.00	0,500
	C1035 Identifying devices	00.000	OF A	165	46.00
	Signage	28,000	GFA	1.65	46,20
	C1037 General fittings and misc. metals	0.400	LD	2.50	00.40
	Miscellaneous metals, allow 0.3#/SF Fire extinguisher cabinets	8,400 6	LB EA	3.50 253.31	29,40 1,52
	Cornerguards	108	EA	275.00	29,70
	Floor hatch and access ladders	2	EA	5,200.00	10,40
	Restroom and shower accessories	1	LS	29,200.00	29,20
	Ships ladder	1	EA	7,150.00	7,15
	Miscellaneous graphics	1	LS	14,000.00	14,00
	Total For Fitting	s and Specialty Items			176,63
20	STAIRS				
2010	Stair Construction				
	No work anticipated				N,
	No Work antioipated				
		For Stair Construction			
30		For Stair Construction			
30 3010	Total	For Stair Construction			=
	Total INTERIOR FINISHES Wall Finishes	For Stair Construction	_		
	Total INTERIOR FINISHES	For Stair Construction 28,000	GFA	4.00	112,00
	Total INTERIOR FINISHES Wall Finishes C3012 Wall finishes to interior walls		GFA GFA	4.00 8.00	
	Total INTERIOR FINISHES Wall Finishes C3012 Wall finishes to interior walls Interior painting Miscellaneous wall finishes	28,000			224,00
	Total INTERIOR FINISHES Wall Finishes C3012 Wall finishes to interior walls Interior painting Miscellaneous wall finishes	28,000 28,000			224,00
3010	Total INTERIOR FINISHES Wall Finishes C3012 Wall finishes to interior walls Interior painting Miscellaneous wall finishes	28,000 28,000			224,00
3010	Total INTERIOR FINISHES Wall Finishes C3012 Wall finishes to interior walls Interior painting Miscellaneous wall finishes T Floor Finishes	28,000 28,000			224,00 336,00
3010	Total INTERIOR FINISHES Wall Finishes C3012 Wall finishes to interior walls Interior painting Miscellaneous wall finishes T Floor Finishes C3024 Flooring including base	28,000 28,000 Total For Wall Finishes	GFA	8.00	224,00 336,00 28,00
3010	INTERIOR FINISHES Wall Finishes C3012 Wall finishes to interior walls Interior painting Miscellaneous wall finishes Floor Finishes C3024 Flooring including base Floor leveling Floor finishes	28,000 28,000 Total For Wall Finishes 28,000	GFA GFA	8.00	224,00 336,00 28,00 249,20
3010	INTERIOR FINISHES Wall Finishes C3012 Wall finishes to interior walls Interior painting Miscellaneous wall finishes Floor Finishes C3024 Flooring including base Floor leveling Floor finishes	28,000 28,000 Total For Wall Finishes 28,000 28,000	GFA GFA	8.00	224,00 336,00 28,00 249,20
3010 3020	INTERIOR FINISHES Wall Finishes C3012 Wall finishes to interior walls Interior painting Miscellaneous wall finishes Floor Finishes C3024 Flooring including base Floor leveling Floor finishes Total	28,000 28,000 Total For Wall Finishes 28,000 28,000	GFA GFA	8.00	224,00 336,00 28,00 249,20
3010 3020	INTERIOR FINISHES Wall Finishes C3012 Wall finishes to interior walls Interior painting Miscellaneous wall finishes Floor Finishes C3024 Flooring including base Floor leveling Floor finishes	28,000 28,000 Total For Wall Finishes 28,000 28,000	GFA GFA	8.00	112,00 224,00 336,00 28,00 249,20 277,20
3010 3020	INTERIOR FINISHES Wall Finishes C3012 Wall finishes to interior walls Interior painting Miscellaneous wall finishes Floor Finishes C3024 Flooring including base Floor leveling Floor finishes Ceiling Finishes C3031 Ceiling finishes Ceiling finishes	28,000 28,000 Total For Wall Finishes 28,000 28,000 otal For Floor Finishes	GFA GFA GFA	1.00 8.90	224,00 336,00 28,00 249,20 277,20

PRELIMINARY DESIGN ESTIMATE **BUILDING ESTIMATE**

March 8, 2022 Date:

Gross Floor Area:



28,000 SF

	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
1010	Elevator & Lift				
	No work anticipated				N/.
	·	or Elevator & Lifts	_		_
20	PLUMBING		_		
2010	Plumbing				
	Plumbing systems, complete	28,000	GFA	47.00	1,316,000
	To	otal For Plumbing			1,316,00
30	HVAC				
3010	HVAC				
	D3032 Direct expansion systems				
	Heat pumps	3	EA	33,139.75	99,4
	Branch selector boxes	10	EA	5,447.00	54,47
	Fan coil units, VRF	48	EA	4,009.25	192,44
	Terminal units, VRF Refrigerant piping, fittings, valves and insulation	18 8,200	EA LF	3,095.75 35.68	55,72 292,57
	Split system air conditioning to IT room	1	LS	16,747.50	16,74
	D3041 Air distribution systems			-	
	DOAS air handling unit with heat recovery	3	EA	38,062.50	114,18
	Ductwork and fittings, OSA/SA/RA/HREA	32,500	LB	12.98	421,85
	Ductwork ancillaries	1	LS	54,708.50	54,70
	Duct insulation	24,375	SF	6.23	151,85
	Grilles, registers and diffusers	330	EA	285.32	94,15
	Louvers	5	EA	1,141.28 -	5,70
	D3042 Exhaust ventilation system			-	
	Exhaust fans	7	EA	1,556.29	10,89
	Ductwork and fittings, EA	1,650	LB	12.98	21,41
	Ductwork ancillaries	1	LS	40,600.00	40,60
	Louvers	5	EA	933.78 -	4,66
	D3060 Controls and Instrumentation			-	
	DDC controls	28,000	GFA	7.57 -	211,96
	D3070 Systems Testing and Balancing			-	
	Testing, adjusting and balancing Attendance on third party commissioning	1 1	LS LS	25,375.00 10,962.00	25,37 10,96
	D3090 Other HVAC Systems and Equipment			- -	
	Unit heaters	1	LS	16,240.00	16,24
		Total For HVAC			1,895,96

D4010 Fire Protection

D4010 Sprinklers

TACOMA, WA PRELIMINARY DESIGN ESTIMATE 28,000 SF Gross Floor Area: COST GROUP **BUILDING ESTIMATE** March 8, 2022 Date: ITEM DESCRIPTION **QUANTITY** UNIT **UNIT COST TOTALS** 28.000 GFA 6.80 190.400 Fire suppression at main level Fire suppression at mezzanine 3,250 SF 5.92 19,240 1,395 SF 12.50 17,438 Fire suppression at covered outdoor Total For Fire Sprinkler System 227,078 D50 ELECTRICAL D5000 **Electrical** 28.000 D5010 Electrical Service and Distribution **GFA** 15.50 434.000 Photovoltaic system, roof, add alternate N/A D5020 Lighting and Branch Wiring Machine and equipment power 28,000 **GFA** 4.25 119,000 28,000 5.75 161,000 User convenience power GFA Lighting systems 28.000 **GFA** 25.05 701.400 Lighting controls 28,000 **GFA** 3.35 93,800 D5031 Public address and music systems 4,000.00 4,000 Head-end equipment LS 1 Speakers including conduit and wire 45 EΑ 615.00 27,675 D5033 Telephone/data systems Telecomms 28,000 **GFA** 6.15 172,200 D5034 Call systems Call systems 28,000 **GFA** 3.05 85,400 D5035 AV/TV systems TV head-end equipment LS 1,650.00 1.650 1 TV outlets including conduit and cable 28,000 GFA 0.50 14,000 D5037 Fire alarm system Fire alarm at building area 28,000 **GFA** 6.25 175,000 Fire alarm to mezzanine areas 3,250 SF 3.35 10,888 D5038 Security and detection systems Access control/intruder detection 28.000 6.75 189.000 **GFA** CCTV systems 28,000 **GFA** 4.75 133,000 D5091 Grounding systems 28,000 **GFA** 0.40 11,200 Grounding D5092 Emergency light and power systems Generator See Sitework Lighting inverter 1 EΑ 5,150.00 5,150 15,500.00 15,500 Generator disconnect EΑ 1 Automatic transfer switch 1 EΑ 25,750.00 25,750 57,750 Feeder conduit and wire 150 LF 385.00 D5095 General construction items Testing 1 LS 40,067.25 40,067

E10 EQUIPMENT

Page 12 of 15

PRELIMINARY DESIGN ESTIMATE **BUILDING ESTIMATE**



ILDING ES	STIMATE		Date:	March 8, 2022	COST GROUP
	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
E1010	Equipment				
	E1093 Food service equipment Kitchen equipment "commercial", allowance	1	LS	190,000.00	190,000
	E1094 Residential equipment Residential equipment Washer / dryer	1 1	LS EA	18,500.00 13,900.00	18,500 13,900
	Miscellaneous Miscellaneous equipment, allow Owner furnished, contractor installed items	1 1	LS LS	98,000.00 7,000.00	98,000 7,000
		Total For Equipment		7,000.00	327,400
E20	FIXED FURNISHINGS	Total For Equipment	_		027,100
E2010	Fixed Furnishing				
	E2012 Fixed casework Casework	28,000	GFA	12.00	336,000
	E2013 Blinds and other window treatments Windoow treatments	1	LS	63,000.00	63,000
	Total Fo	or Fixed Furnishings			399,000
F10	SPECIAL STRUCTURES				
F1010	Special Structure				
	No work anticipated				N/A
	Total F	or Special Structure			
F1020	Special Construction				
	No work anticipated				N/A
	Total For S	Special Construction			
F20	SELECTIVE BUILDING DEMOLITION				
F2010	Building Elements Demolition				
	No work anticipated				N/A
	Total For Selective	Building Demolition			

TACOMA, WA

PRELIMINAR	A RY DESIGN ESTIMATE			GROSS FLOOR AREA:		1,300 SF		
BUILDING ES				DATE:		March 8, 2022	cos	GROUP
No. E	LEMENT DESCRIPTION	ELEM	ENT TOTAL	GROUP TOTAL		COST F		
A10 F	OUNDATIONS			\$ 23,725			\$	18.25
A1010	Standard Foundation	\$	8,775		\$	6.75		
A1020	Special Foundation	\$	-		\$	-		
A1030	Slab on grade	\$	14,950		\$	11.50		
A20 B	ASEMENT WALL CONSTRUCTION			\$ -			\$	-
A2010	Basement Excavation	\$	-		\$	-		
A2020	Basement Wall Construction	\$	-		\$	-		
B10 S	UPERSTRUCTURE			\$ 38,350			\$	29.50
B1010	Floor & Roof Construction	\$	38,350		\$	29.50		
B20 E	XTERIOR ENCLOSURE			\$ 62,270			\$	47.90
B2010	Exterior Walls	\$	41,600		\$	32.00		
B2020	Exterior Windows	\$	-		\$	-		
B2030	Exterior Doors	\$	20,670		\$	15.90		
B30 R	OOFING			\$ 26,000			\$	20.00
B3010	Roofing	\$	26,000		\$	20.00		
	NTERIOR CONSTRUCTION		,	\$ 19,175			\$	14.75
C1010	Partitions	\$	14,300		\$	11.00		
C1020	Interior Doors	\$	2,600		\$	2.00		
C1030	Fittings and Specialties	\$	2,275		\$	1.75		
C20 S	TAIRS	·	, -	\$ -			\$	-
C2010	Stair Construction	\$	-	•	\$	-		
	NTERIOR FINISHES	·		\$ 7,930			\$	6.10
C3010	Wall Finishes	\$	2,600		\$	2.00		
C3020	Floor Finishes	\$	3,770		\$	2.90		
C3030	Ceiling Finishes	\$	1,560		\$	1.20		
D10 C	ONVEYING		,	\$ -			\$	-
D1010	Elevators & Lifts	\$	-		\$	-		
D20 P	LUMBING			\$ -			\$	-
D2010	Plumbing	\$	-		\$	-		
D30 H	IVAC			\$ 26,000			\$	20.00
D3010	HVAC	\$	26,000		\$	20.00		
D40 F	IRE PROTECTION			\$ 9,100			\$	7.00
D4010	Sprinkler System	\$	9,100		\$	7.00		
D50 E	LECTRICAL			\$ 34,450			\$	26.50
D5000	Electrical	\$	34,450		\$	26.50		
E10 E	QUIPMENT		,	\$ -			\$	-
E1010	Equipment	\$	-	•	\$	-		
E20 F	IXED FURNISHINGS			\$ -			\$	-
E2010	Fixed Furnishings	\$	-		\$	-		
F10 S	PECIAL CONSTRUCTION			\$ -	Ė		\$	
F1010	Special Structure	\$	-					
F1020	Special Construction	\$	-					
	ELECTIVE BUILDING DEMOLITION			\$ -			\$	
F2010	Building Elements Demolition	\$	-					
	Sub-Total Direct Cost			\$ 247,000			\$	190.00



### ALTERNATI	### ALTERNATES		Date:	March 8, 2022	COST GROUP
	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTALS
	Alternate 1: Net Zero Alternate				
	Photovoltaic system	1	LS	1,288,000.00	1,288,000
		Sub-Total	-	_	1,288,000
	Estimating / Design Contingency	11.50%			148,120
	Sub Bonding	20.00%			287,224
	Escalation	5.00%			86,167
		Sub-Total			1,809,511
	MACC Contingency				
		Sub-Total			1,809,511
	GC-CM Fee	1.50%			27,143
	NSS / General Requirements	4.00%			73,466
		Sub-Total			1,910,120
	Specified General Conditions (SGC's)				
		Total Construction Cost			1,910,120