## FEASIBILITY STUDY

## FOR CONVERTING BUILDING 'F', INTO AN ELDER CARE FACILITY OR BUILDING A NEW ELDER CARE FACILITY AT

## WASHINGTON CORRECTION CENTER FOR WOMEN, GIG HARBOR WASHINGTON







May 23, 2023



## TABLE OF CONTENTS

Section	<u>Page Number</u>
Table of Contents	1
Feasibility Study Contributors	2
Conditions Assessment – Existing Conditions	
Two Solutions – Remodel or New Building	5
Remodel Existing Building F	6
Build New Elder Care Facility	6
Cost Estimate Discussion	7
Conclusion & Recommendation	7
APPENDIX A	
Cost Estimate of Remodel & Addition to Building 'F'	5 pages
APPENDIX B	
Cost Estimate of New Elder Care Facility	4 pages
APPENDIX C	
Remodel & Addition to Building F -Architectural &	
Structural Drawings	4 pages
APPENDIX D	
Build new Elder Care Facility at Location of Building F –	
Architectural & Structural Drawings	3 pages
APPENDIX E	
Structural Design Narrative	2 pages
Mechanical & Electrical Design Narrative	10 pages



WCCW Feasibility Study to Convert Building F into an Elder Care Facility or Build a New Elder Facility

## FEASIBILITY STUDY CONTRIBUTORS

#### **Project Steering Committee**

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#### **Project Design Team**

ARCHITECT | MSGS ARCHITECTS Bill Sloane, AIA, Principal, Project Architect Gene LaVaque, AIA, Architect

STRUCTURAL ENGINEER | AHBL Drew McEachern, PE, SE, Principal, Structural Engineer

MECHANICAL ENGINEER | P2S INC. Peter Sloane, PE, GPCP, Associate Principal Mechanical Engineer

ELECTRICAL ENGINEER | P2S INC. Akshay Prabhu, PE, DBIA, Associate Principal Electrical Engineer

COST ESTIMATOR | J B IRINGAN CONSULTING Juan B. Iringan

## CONDITIONS ASSESSMENT & CONVERSION INTO AN ELDER CARE FACILITY

#### BUILDING 'F' - WASHINGTON CORRECTION CENTER FOR WOMEN (WCCW):

The Department of Corrections hired MSGS Architects to explore the feasibility of converting an unused dormitory building, Building F, on the WCCW campus into an Elder Care Facility to address the medical and elder life issues of their aging female incarcerated individuals (I/I's), many of whom are incarcerated for life. Building F was built as a medium security prison dormitory in 1969 and stopped being used by WCCW in 2006. The building was shut down 'cold', meaning that no part of the building was heated at any time of the year. Water pipes were drained so as to not burst the pipes during below freezing weather.

The intent of this feasibility study is to explore either converting, through extensive remodeling, Building F into an Assisted Living and Skilled Nursing Facility, or to tear down the existing structure completely and build a new Elder Care Facility in the same location. All of the land contained within the perimeter fence at WCCW already has structures or other improvements needed for the institution. The present site where Building F stands is the only location where an Elder Care Facility could be placed.

#### **EXISTING CONDITIONS:**

When Building F was built as a medium security prison, all the exterior and interior walls were made from reinforced solid concrete, 6" thick on the exterior walls and 3 5/8" thick on the interior walls. The exterior walls were covered with veneer brick on their exterior face. See figure 1 below:



Figure 1

The building has a double loaded corridor down the cell wings with heavy plate steel doors on heavy duty hinges. There is an opening in each cell door just large enough to slide a food tray through for each inmate's meal. See figure 2 below:



Figure 2



Figure 3

Within each cell, designed for a single inmate, there is a combination water closet / lavatory. See figure 3 above.

The existing doors to the cells are not appropriate in an Elder Care Facility and would need to be replaced with 3'-0" wide heavy duty insulated hollow metal doors and frames. Better for an Elder Care Facility, wider doors, 42" wide, will provide greater accessibility for all residents.

The existing water closet / lavatory combination fixtures do not meet accessibility requirements. They are not practical for an Assisted Living or Skilled Nursing Facility and would need to be replaced in any remodel with an accessible water closet and an accessible lavatory.

#### TWO SOLUTIONS - REMODEL BUILDING F or BUILD A NEW ELDER CARE FACILITY

Building F was built in 1969 and the costs and embodied energy used to build this building remain in the existing structure. The building is very strong, with poured concrete walls on both the exterior and interior walls, as well as concrete floor and roof structure. Remodeling the building into an Elder Care Facility would require extensive demolition of existing walls. With correct structural engineering, as this report allows for, this is completely possible. To accommodate at least (35) elder I/I's in the facility, a 1,500 SF addition to the building is needed. There is room to build this addition on the west between the west end of Building F and the perimeter road against WCCW's Perimeter Security fence. See Figure 4 below:



Figure 4

This Feasibility Report looks at (2) solutions to creating an Elder Care Facility at WCCW: Remodel and add on to the existing Building F, or demolish Building F entirely and build a new Elder Care Facility in the same location as Building F used to stand. For an 'apples to apples' comparison of construction costs, the size of the potential new building is very similar to the size of the remodeled and added onto existing Building F.

A two-story solution was explored early in the Feasibility Study, but ultimately rejected for a number of reasons. The biggest reason is that the structural engineer looked at the existing foundation of Building F and determined that to add a second story onto the building, that portion of the Building F that would be two stories would have to be 100% demolished and re-built with larger, more robust footings. Additionally, a two-story addition to the existing building would require an elevator, and two sets of stairs. A new elevator installed today, is not less than \$100,000, and probably more when all associated requirements for an elevator are accounted for. The two sets of stairs take up space needed for other functions. Finally, in an Assisted Living / Skilled Nursing Facility, the residents are not very mobile, with many needing to use a wheelchair to get around. A second story creates challenges to the residents to travel to, let alone use on a regular basis.

#### REMODEL EXISTING BUILDING F:

Per the superintendent of WCCW, Charlotte Headley, older women I/I's with age related health issues, accommodate to prison life much better emotionally and physically when they are living in cells with other women. For this reason, for the majority of single occupancy cells in the existing Building F, we recommend that the walls between cells be removed to allow for 2-women and 3-women cells.

The combination lavatory / water closet fixtures that exist are completely impractical for an elder care environment. We recommend that all cells have a fully accessible water closet with the required ADA grab bars and a lavatory that also meets all required ADA clearances and heights. We recommend that all beds in all cells be hospital size beds, with the adjustable height features typical in beds of this type.

Since many of the elder I/I's need assistance in showering, we recommend and show large single occupancy shower rooms, fully accessible, that are large enough for one or two nursing assistants to help women inmates bathe.

The 'Day Room' where meals are taken for those inmates that are mobile, and where daily activities take place, is centrally located in both the remodeled and new building designs, to create the easiest access to the day room, on the same level as the inmates live on.

In Appendix A of this report is a Proposed First Floor Plan of a Remodeled and Addition to existing Building F. The structure of the building is reinforced with new structural features as shown on the conceptual structural drawings in Appendix A. This remodel would replace all mechanical and electrical systems with new systems. The Basis of Design of the Structural, Mechanical and the Electrical systems are attached in Appendix C.

Current doors into the cells are 36" wide. We recommend that all cell doors be enlarged to a 42" width, to better accommodate wheelchair access. An exterior staircase to the basement, where the mechanical and electrical systems are housed is included in this design at the request of WCCW maintenance staff.

This design accommodates up to (27) I/I's with (6) flexible offices that could be converted into I/I cells for a maximum accommodation of (39) I/I's.

#### BUILD A NEW ELDER CARE FACILITY

Following the Proposed Floor Plan of a Remodeled and Addition to existing Building F, is a Proposed Floor Plan of a NEW BUILDING.

The square footage of the new building is similar to the existing remodeled building for cost comparison purposes. The central area is opened up in a more social and friendly manner as the WCCW I/I's that will be living in this facility need nursing and medical assistance on a daily basis, more than a facility that is designed to prevent I/I's from escaping. These I/I's have limited physical capacity for any sort of task.

All doors in the new building are 42" wide, to accommodate I/I's in wheelchairs. (4) large single occupancy shower rooms are included in the project, rooms large enough to allow one or two nursing aides to be in the shower room with the I/I, to help her bathe.

This design accommodates up to (31) women I/I's with (5) flexible offices that could be converted into inmates' cells for a maximum accommodation of (40) I/I's.

#### COST ESTIMATE:

Two cost estimates of the above described alternates, (1) remodeling the existing Building 'F', also known as SCHEME D, and (2) demolishing Building 'F' and building a new building, also known as SCHEME E, follow this page. Costs are summarized below, shown in today's construction dollars and with an escalation factor of 7.5% per year, for two years, for construction beginning on or after July 1, 2025, the beginning of the State of Washington's 2025-2027 Biennium budget cycle.

REMO	DEL BUILDING 'F'	COST per SF	BUILD NEW FACILITY	COST per SF
Cost Today:	\$5,353,100	\$589.09 per SF	\$7,167,500	\$777.64 per SF
Escalated Cost in 2025:	\$6,186,200	\$680.77 per SF	\$8,283,000	\$898.67 per SF

#### **CONCLUSION & RECOMMENDATION**

The cost of construction today is experiencing an inflationary trend that occasionally occurs in our economy's business cycle. The construction industry experienced a similar trend in the 2007 – 2010 time period. The high inflation rate of construction costs at that time period eventually eased, but the cost per square foot of remodel or new construction did not do down, the rate of increase merely slowed.

The present rate of inflation in construction costs is also easing, as the world moves beyond the supply side issues and the resulting inflationary costs of building. As our cost estimates show, there is still significant savings to be realized in remodeling a well-built existing building for a new purpose, compared with the cost to demolish this building completely and then building a brand-new building in its place. Remodeling Building F into an Elder Care Facility with Assisted Living and Skilled Nursing wings may not provide as ideal a facility for Elder Care as is functionally possible, but the costs saving of the remodel scheme are significant, and the resulting facility is functionally very similar to a purpose-built new Elder Care facility.

Submitted by,

Bill Sloane, AIA, LEED AP MSGS Architects Olympia WA 98501



WCCW Feasibility Study to Convert Building F into an Elder Care Facility or Build a New Elder Facility

# APPENDIX A COST ESTIMATE – REMODEL EXISTING BUILDING F

#### SUMAMRY: SCH-D

Project:	WCCW - ELDER CARE FACILITY, Renova	ations & Additions			
Location	Gig Harbor, WA				
Architect:	MSGS Architects				
Prepared by:	J B Iringan Consulting				
Bldg (SF)	9,087 SF				
Date	May 22, 2023				
Phase <sup>.</sup>	Feasibility Study Estimate				
SEC					τοται
JEC	DESCRIPTION				IOTAL
	BUILDING:				
A10	FOUNDATIONS				90,926
A20	BASEMENT CONSTRUCTION				148,128
A30	SLAB ON GRADE				25,253
B10	FLOOR CONSTRUCTION				32,651
B20	ROOF CONTRICTION				57,337
B30	EXTERIOR CLOSURE				209,338
B40	ROOFING				306.751
C10	INTERIOR CONSTRUCTION				353 534
C20	STAIRCASE				25,000
C30					368 568
D20	PLUMBING				342 913
D20					330.060
D30					555,505
D40	FIRE PROTECTION				055 404
D50					800,424
EIU	EQUIPMENT				3,000
E20	FURNISHINGS				12,500
	TOTAL BUILDING DIRECT COST			100/	\$3,171,293
	GENERAL CONDITIONS INCL SITE OVER	HEAD		18%	570,833
	GENERAL CONTRACTOR'S OH&P, B&O T	ax, Insurance		8%	299,370
	DESIGN/ESTIMATING CONTINGENCY			15%	606,224
	TIGHT SECURITY CONDITIONS PREMIUM	1		5%	232,386
	TOTAL BUILDING COST @ BID TODAY	9,0	)87 SF	\$537.04	\$4,880,106
	SITEWORK:				
F20	SELECTIVE BUILDING DEMOLITION & MIS	SC SITE WORK			227,377
G20	SITE IMPROVEMENTS		Mino	r work - Allow	30,000
G30	SITE CIVIL / MECHANICAL UTILITIES		Mino	r work - Allow	50,000
	TOTAL SITEWORK DIRECT COST				307,377
	GENERAL CONDITIONS INCL SITE OVER	HEAD		18%	55,328
	GENERAL CONTRACTOR'S OH&P. B&O T	ax. Insurance		8%	29.016
	DESIGN/ESTIMATING CONTINGENCY			15%	58 758
	TIGHT SECURITY CONDITIONS PREMIUM	И		5%	22 524
	TOTAL SITEOWRK COST @ BID TODAY	•		070	\$473,004
					<i><i><i></i></i></i>
	TOTAL BUILDING & SITEWORK COST @	BID TODAY		\$589.09	\$5,353,100
EXCLUSIC	DNS:				
	Permits	Construction Mana	agement	Fees	
	Furnishings/Equip Not Listed	Traffic Control			
	A/E Fees	Artwork/Installation	าร		
Legends	GSF Gross Square Feet		CY Cubi	c Yard	
Legends	GSF Gross Square Feet FPA Foot Print Area		CY Cubi	c Yard are Yard	
Legends	GSF Gross Square Feet FPA Foot Print Area	Δ	CY Cubi SY Squa	c Yard are Yard	
Legends	GSF Gross Square Feet FPA Foot Print Area UFA Upper Floor Area	A	CY Cubi SY Squa ACR Acre	c Yard are Yard	
Legends	GSF Gross Square Feet FPA Foot Print Area UFA Upper Floor Area RA Roof Area	Α	CY Cubi SY Squa ACR Acre EA Each	c Yard are Yard 1	
Legends	GSF Gross Square Feet FPA Foot Print Area UFA Upper Floor Area RA Roof Area XWA Exterior wall Area	Α	CY Cubi SY Squa ACR Acre EA Each PR Pair	c Yard are Yard 1	
Legends	GSF Gross Square Feet FPA Foot Print Area UFA Upper Floor Area RA Roof Area XWA Exterior wall Area SF Square feet	Ρ	CY Cubi SY Squa ACR Acre EA Each PR Pair LS Lump	c Yard are Yard p sum	

Project:	WCCW - ELDER CARE FACILITY, Renovations & Additions				
Location:	Gig Harbor, WA				
Architect:	MSGS Architects				
Prepared by:	J B Iringan Consulting				
Bldg (SF):	9,087 SF				
Date:	May 22, 2023				
Phase:	Feasibility Study Estimate				
ITEM	DESCRIPTION	QUANTITY UNIT	UNIT COST	TOTAL	\$/SF
A10	FOUNDATIONS				
	New Additions:				
	3' Wide strip footing w/ 3' H stem wall - basement level	125 LF	300.00	37,500	
	5' Wide strip footing w/ 3' H stem wall - basement level	29 LF	375.00	10,875	
	3' Wide strip footing w/ 3' H stem wall - 1st floor level	127 LF	300.00	38,100	
	Conc, forms & reinf	Included above			
	Excavate/trenching, native backfill	Included above			
	Waterproofing exterior face of perimeter footing	381 SF	2.35	895	
	Footing drainage with gravel around	127 LF	28.00	3,556	
A10	TOTAL FOUNDATIONS	1,661 SF		90,926	54.74
A20	BASEMENT CONSTRUCTION				
	Shoring/underpin exist foundatiosn to install new basement - allow	300 SF	100.00	30,000	
	Gravel fill behind retaining walls	118 CY	50.00	5,911	
	8" Thick reinf concrete basement/retaining wall	1,596 SF	55.31	88,277	
	Waterproofing retaining walls with drainage composite system	1,596 SF	15.00	23,940	
A20	TOTAL BASEMENT CONSTRUCTION	1,596 SF		148,128	92.81
A30	SLAB-ON-GRADE				
	4" thick conc slab-on-grade (Basment & 1st Floor Level):	1 661 SF	15 20	25 253	93
	Gravel fill - 6" thk total. Visqueen - moisture barrier	included above		_0,_00	
	Slab reinf - WWF	included above			
	Fine grade/compact subgrade below slab	included above			
	Vapor barrier - 15 mil polyethylene sheathing	included above			
	Trowel, cure & finish slab on grade	included above	r work - Allow		
	2" R-10 rigid insul at slab perimeter	included above	r work - Allow		
	Construction & control joints	included above			
A30	TOTAL SLAB-ON-GRADE	1,661 SF		25,253	15.20
B10	FLOOR CONSTRUCTION				15
	Composite floor (1st Floor- Addition)				
	Steel beams & metal deck	505 SF	48.50	24,493	100
	4" Thk conc topping w/ #4 @12" OC E.W	505 SF	16.16	8,159	
	Spray fireproof under metal deck	Included above			
B10	TOTAL FLOOR CONSTRUCTION	505 UFA		32,651	64.66
B20	ROOF CONSTRUCTION				
220	CMU pilasters 16" x 16"	80 I F	80.00	6 400	
	8" Thk hollow core planks incl delivery & erection	1 661 SF	20.00	33 220	
	2-1/2" thick normal conc topping w/ WWF reinf, trowel & finish slab	1,661 SF	10.67	17,717	
B20	TOTAL ROOF CONSTRUCTION	1.661 RA		57.337	34 52
		.,		,	
B30	EXTERIOR CLOSURE	4 504 05	07.00	40.004	
	o UNU wall, solid grout, reint	1,591 SF	27.00	42,964	
	Drick verleer	1,091 55	30.UU 1 E0	0U,400 0 207	
	Liquiu applieu weather resistant valliel	1,091 05	1.50	2,301	

ITEM	DESCRIPTION	QUANTITY UNIT	UNIT COST	TOTAL	\$/SF
	Furring, GWb, R19 batt insul, VB to exterior perimeter wall	1,424 SF	17.85	25,414	
	CMU Parapet incl brick veneer, 3.5' high	586 SF	65.00	38,106	
	4' x 5', new Windows @ dayroom/dining	3 EA	2,700.00	8,100	
	2.5'x4' Hardened new Windows at cell rooms	12 EA	1,575.00	18,900	
	New door w/ side glass wall at new West Entry	1 EA	13,000.00	13,000	
B30	TOTAL EXTERIOR CLOSURE	2,178 XWA		209,338	96.14
B40	ROOFING				
	New Additions (1468+193 = 1,661 SF):				
	PVC fully adhered sheet memb roofing, VB & coverboard	1,661 SF	13.50	22,424	
	Extend roofing to the parapet (vertical side)	600 SF	10.00	6,003	
	R-45 Rigid insulation over conc plank/conc roof	1,661 SF	10.80	17,939	
	Misc flashing - allow	1,661 SF	3.50	5,814	
	Extend/repair roofing transition between existing & new structure	60 LF	35.00	2,100	
	Parapet metal coping	172 LF	28.00	4,802	
	Existing Areas (7,426 SF):	7 400 05	10 50	100.051	
	PVC fully adhered sheet memb rooting, VB coverboard	7,426 SF	13.50	100,251	
	Extend rooting to the parapet (vertical side)	1,596 SF	10.00	15,960	
	R-45 Rigid insulation over conc plank/conc roof	7,426 SF	10.80	80,201	
	Misc flashing - allow	7,426 SF	3.50	25,991	
	Parapet metal coping	456 LF	28.00	12,768	
	Sealants/caulking/fire stopping allow	1 LS	12,500.00	12,500	
B40	TOTAL ROOFING	1,661 RA		306,751	184.68
C10	INTERIOR CONSTRUCTION: Partitions, Doors, Relights, Special	ties & Casework			
	New 8" CMU CMU walls to new addition	816 SF	27.00	22,032	
	Mtl studs, 5/8" GWB (impact resistant) & sound batts - new addition	833 SF	22.95	19,117	
	Mtl studs, 5/8" GWB (impact resistant) & sound batts - exist areas	2,695 SF	22.95	61,850	
	Mtl studs, 5/8" GWB (impact resistant) - exist areas	136 SF	14.00	1,904	
	SCW Interior door, HM frame & hw to support rooms	14 EA	3,600.00	50,400	
	HD Interior metal door, HM frame & hw to cell rooms	12 EA	4,200.00	50,400	
	Add for laminated glass vision panel to interior doors	26 EA	800.00	20,800	
	Add for door closers	16 EA	450.00	7,200	
	Toilet partitions & doors - Reg	3 EA	2,000.00	6,000	
	Toilet partitions & doors - ADA	2 EA	2,500.00	5,000	
	Toilet specialties to common bathrooms	6 SETS	2,500.00	15,000	
	Shower specialties to common bathrooms	5 SETS	2,000.00	10,000	
	Toilet specialties to cell rooms	15 SETS	1,500.00	22,500	
	Nurses' station/counter	36 LF	600.00	21,600	
	Guards' station/counter	16 LF	600.00	9,600	
	Vanity cabinets with solid surface counter at bathrooms	35 LF	680.00	23,800	
	Base cab with solid counter tops at staff break room	6 LF	680.00	4,080	
	Upper cab at staff break room	9 LF	250.00	2,250	
C10	TOTAL INT PARTITIONS, DOORS, RELIGHTS & CASEWORK	9,087 GSF		353,534	38.91
C20	STAIRCASE				
	New exterior stair incl railing, down to basement	1 FLT	25,000.00	25,000	
	Retaining wall, incl footing & waterproofing	included	-		
	Excavation, backfill & gravel around	included			
C20	TOTAL STAIRCASE	9,087 GSF		25,000	2.75
C30	INTERIOR FINISHES				
	Luxury vinyl flooring incl RB base	7,928 SF	17.00	134,781	
	CT to shower room floor incl CT base	250 SF	36.00	9,000	
	CT to shower room wall - 8' high	1,088 SF	28.00	30,464	

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL	\$/SF
	Vinyl wainscot to hallway - 4' high	1,880	SF	12.00	22,560	
	GWB ceilings (impact resistant) incl framing	8,178	SF	15.00	122,675	
	Basement		No finis	shes		
	Paint new CMU walls (interior & exterior perimeter)	1,632	SF	1.85	3,019	
	Paint new GWB walls	8,783	SF	1.85	16,249	
	Paint existing walls	13,200	SF	1.85	24,420	
	Paint new & existing door/frame	36	LVS	150.00	5,400	
C30	TOTAL INTERIOR FINISHES	9,087	GSF		368,568	40.56
D20	PLUMBING					
	Plumbing system work, incl WC, Sink, Urinal & piping	9,087	GSF	37.74	342,913	
	Please refer to Mechanical Engineer's report for detail					
D20	TOTAL PLUMBING	9,087	GSF		342,913	37.74
D30	HVAC					
	HVAC	9,087	GSF	37.41	339,969	
	Please refer to Mechanical Engineer's report for detail					
D30	TOTAL HVAC	9,087	GSF		339,969	37.41
D40	FIRE PROTECTION					
	Fire sprinklering system		NIC	6.00		
D40	TOTAL FIRE PROTECTION	9,087	GSF			
D50	ELECTRICAL					
	Power, Distribution, lighting, switches	9,087	GSF	65.46	594,827	
	TAB, commissioning		Include	d above		
	Telecom, Security	9,087	GSF	21.01	190,927	
	Fire alarm	9,087	GSF	7.67	69,670	
	Please refer to Electrical Engineer's report for detail					
D50	TOTAL ELECTRICAL	9,087	GSF		855,424	94.14
E10	EQUIPMENT					
	Kitchen appliances - allow	1	LS	3,000.00	3,000	
	Hoyer lifts		NIC			
E10	TOTAL EQUIPMENT	9,087	GSF		3,000	0.33
E20	FURNISHINGS					
	Entry mat	300	SF	20.00	6,000	
	Window blinds	1,000	SF	6.50	6,500	
E20	TOTAL FURNISHINGS	9,087	GSF		12,500	1.38
		TOTAL BUIL	.DING D	DIRECT COST	3.171.293	348.99

#### Estimate Detail: SCH-D

ITEM	DESCRIPTION	QUANTITY UNIT	UNIT COST	TOTAL	\$/SF
	SITEWORK				
F20	SELECTIVE BUILDING DEMOLITION & SITE WORK				
	Sawcut/demo exterior wall at North Elev (give room for Addtition)	28 LF	100.00	2,800	
	Sawcut/demo exterior wall at West Elev (give room for Addtition)	8 LF	100.00	800	
	Demo exist roofing system inc misc flashing & parapet coping	7,426 SF	5.00	37,130	
	Demo interior walls	510 LF	25.50	13,005	
	Demo doors & frames	45 EA	150.00	6,750	
	Demo exist finishes: floor, RB base, ceiling	7,426 SF	3.50	25,991	
	Load haul & dispose debris Asbestos abatement & disposal:	319 CY	100.00	31,863	
	Asbestos containing caulk around the door frmaes	39 LF	5.00	195	
	Mudded pipe joints containing asbestos	270 LF	5.00	1,350	
	Floor tile mastic containing materials	2,000 SF	5.00	10,000	
	Vinyl asbestos tile	8,000 SF	5.00	40,000	
	Silver paint on roof containing asbestos	10,000 SF	3.50	35,000	
	Light ballasts containing PCB's Site:	96 EA	25.00	2,400	
	Clear & grub - allow	1.00 LS	2,500.00	2,500	
	Sawcut/demo portion of exist SOG to give room for new basement	63 SF	5.00	315	
	Mass excavate/dispose dirt for basement	363 CY	24.00	8,711	
	Native backfill around the basement	178 CY	20.00	3,567	
	Sedimentation, Construction Entrance & Erosion control	1 LS	5,000.00	5,000	
F20	TOTAL SITE PREPARATION		· ·	227,377	5.08
G20	SITE IMPROVEMENTS				
	Misc patch & Repair on conc sidewalk- allow	1 LS	30,000.00	30,000	
G20	TOTAL SITE IMPROVEMENTS			30,000	0.67
G30	SITE CIVIL /MECHANICAL /ELECTRICAL UTILITIES				
	Incidental works on utilities 5' away from the building - allow	1 LS	50,000.00	50,000	
G30	TOTAL SITE CIVIL /MECHANICAL /ELECTRICAL UTILITIES			50,000	1.79
		TOTAL SITEWORK D	IRECT COST	307,377	7.19



WCCW Feasibility Study to Convert Building F into an Elder Care Facility or Build a New Elder Facility

# APPENDIX B COST ESTIMATE – BUILD NEW ELDER CARE FACILITY

Location Gig Harbor, WA Bidg (SP) 9.217 SF Dete May 22, 2023 Phase: Feasibility Stuty Estimate SEC DESCRIPTION TOTAl BUILDING: A10 FOUNDATIONS 370,69 A30 SLAB ON GRADE 142,82 A10 FOUNDATIONS 27,06 A30 SLAB ON GRADE 27,07 B30 EXTERIOR CLOSURE 911,69 B30 ROOFING 307,72 B30 EXTERIOR CLOSURE 911,69 B30 ROOFING 307,72 C10 INTERIOR CONSTRUCTION 554,76 C30 INTERIOR FINISHES 337,42 C31 INTERIOR FINISHES 337,42 C32 FURNISHINGS 1315,66 C33 INTERIOR CLOSURE 911,69 C32 FURNISHINGS 12,377 TOTAL BUILDING DIRECT COST 54,593,347 GENERAL CONTRACTORS OHAP, BAO Tax, Insurance 55% 226,544 DESIGNESTIMATING CONTINOENCY 155% 815,666,13 C30 STIE MEROVEMENTS Minor work - Allow 30,000 C30 STIE MEROVEMENTS Minor work - Allow 30,000 C30 STIE EMPROVEMENTS MINOR WORK 23,246 C4 ENERAL CONTINCENCY 155% 23,717 C57L BUILDING SOLES TE WORK 23,246 C58LEX CONTINCENCY 155% 23,717 C57L BUILDING SOLES TE WORK 23,246 C58LEX CONTRACTORS OHAP, BAO TAx, Insurance 55% 23,717 C57L BUILDING S STEE WORK 257 @ BID TODAY 577.64 S77.64 S77.64 S77.64 S77.64 S77.64 S77.64 S77.64 S77.64	Location Gig Harbor, WA Bidg (SF) 9,217 SF Date May 22, 2023 Phase: Feasibility Study Estimate SEC DESCRIPTION TO BUILDING: A10 FOUNDATIONS A10 FOUNDATIONS A10 FOUNDATIONS A10 FOUNDATIONS A10 FOUNDATIONS A10 FOUNDATIONS A11 42 B20 ROOF CONTRICTION S172 B20 ROOF CONTRICTION S172 B20 ROOF CONTRICTION S172 B20 ROOF CONTRICTION S172 B20 ROOF CONTRUCTION S172 B21 ROOF CONTRUCTION S172 B21 ROOF CONTRUCTION S172 B21 ROOF CONTRUCTION S172 B21 ROOF CONTRUCTION S172 B22 FURNISHINGS S172 FURNISHINGS S172 FURNISHINGS S172 FURNISHINGS S172 S172 S172 S172 S172 S172 S172 S17	0,691 2,826 7,085 1,690 7,793
Bidg (SP) 9.217 SF Date May 22, 2023 Phase: Feesbilly Study Estimate  SEC DESCRIPTION TOTAL BUILDING: A10 FOUNDATIONS SIZE OESCRIPTION UNDATIONS SIZE OF CONTINCTION BUILDING: A10 FOUNDATIONS SIZE OF CONTINCTION BUILDING: A30 SLAB ON GRADE A30 SLAB A CONTINGENCION A44 CONTINUE A440 GENERAL CONTROCTORS ONEP. BA0 Tax, Insurance SM EXCUPTY CONDITIONS INCL SITE WORK A322,46 GENERAL CONTINGENCY SMORY SMOR	Bidg (SF) 9,217 SF Date May 22, 2023 Phase: Feasibility Study Estimate SEC DESCRIPTION TO BUILDING: A10 FOUNDATIONS STORED 142 A10 FOUNDATIONS 1370 A30 SLAB ON GRADE 142 A20 ROOF CONTRICTION 2577 B30 EXTERIOR CLOSURE 9111 B40 ROOFING 3077 C10 INTERIOR CONSTRUCTION 554 C30 INTERIOR CONSTRUCTION 554 C30 INTERIOR CONSTRUCTION 554 C30 INTERIOR CONSTRUCTION 554 C30 INTERIOR CONSTRUCTION 554 C40 FIRE PROTECTION 554 C41 FIRE PROTECTION 504 FIRE FIRE FIRE 554 C40 FIRE PROTECTION 504 FIRE FIRE FIRE 554 C40 FIRE PROTECTION 504 FIRE FIRE 554 C40 FIRE PROTECTION 504 FIRE FIRE 554 C40 FIRE PROTECTION 504 FIRE FIRE 554 C40 FIRE FIRE FIRE 554 C41 FIRE FIRE 554 C41 FIRE FIRE 554 C41 FIRE FIRE FIRE 554 C41 FIR	<b>OTAL</b> 0,691 2,826 7,085 1,690 7,793
Date May 22, 2023 Phase: Feasibility Study Estimate SEC DESCRIPTION TOTAI BUILDING: A10 FOUNDATIONS BUILDING: A10 FOUNDATIONS BUILDING: A10 FOUNDATIONS B20 ROOF CONTRICTION B20 ROOF CONTRICTION B20 ROOF CONTRICTION B20 ROOF CONTRICTION B30 EXTERIOR CLOSURE B30 ROADE B31 ROOF ROOF B30 B37, 42 B31 ROOF ROOF B31 B37, 42 B32 ROOF ROOF B31 B37, 42 B33 ROOF ROOF ROOF B31 B37, 42 B34 ROOF ROOF ROOF B31 B37, 42 B37 ROOF ROOF ROOF B31 B37, 42 B37 ROOF ROOF B31 B37, 42 B33 ROOF ROOF B31 B31 B33 B37, 42 B37 ROOF ROOF ROOF B31 B31 B33 B37, 42 B37 ROOF ROOF B31 B31 B33 B37, 42 B37 ROOF ROOF B31 B31 B33 B37, 42 B37 ROOF ROOF B31 B31 B33 B37, 42 B31 ROOF ROOF B31 B31 B33 B31 ROOF ROOF B31 B31 B33 B31 ROOF ROOF B31 B31 B33 B32 B33 ROOF ROOF B31 B31 B33 B33 B33 B33 B34 B34 B34 B45 B45 B45 B45 B45 B45 B45 B45 B45 B4	Date     May 22, 2023       Phase:     Feasibility Study Estimate       SEC     DESCRIPTION     TO       BUILDING:     142       A10     FOUNDATIONS     370       A30     SLAB ON GRADE     142       B20     ROOF CONTRICTION     257       B30     EXTERIOR CLOSURE     911       B40     ROOFING     307       C10     INTERIOR CONSTRUCTION     554       C30     INTERIOR FINISHES     397       D20     PLUMBING     315       D30     HVAC     374       D40     FIRE PROTECTION     555       E10     EQUIPMENT     3       D50     ELECTRICAL     855       E10     EQUIPMENT     3       SEC     FUNISHINGS     12       TOTAL BUILDING DIRECT COST     \$4,503       GENERAL CONDITIONS INCL SITE OVERHEAD     15%       OESIGNESTIMATING CONTINGENCY     15%       TIGHT SECURITY CONDITIONS PREMIUM     5%       G30     SITE WORK:     32       F20     BUILDING DEMOLITION & MISC SITE WORK     32       G30     SITE WORK IDECT COST     412       GENERAL CONTRACTORS OH&P, BAO Tax, Insurance     5%       G30     SITE WORK IDECT COST     412 <t< td=""><td>0,691 2,826 7,085 1,690 7,793</td></t<>	0,691 2,826 7,085 1,690 7,793
Phase: Feasibility Subup Estimate SEC DESCRIPTION TOTAL BUILDING: A10 FOUNDATIONS A10 FOUNDATIONS A10 FOUNDATIONS A10 FOUNDATIONS A10 FOUNDATIONS A12,282 B20 ROOF CONTRICTION B27,08 B30 EXTERIOR CLOSURE 911,69 B40 ROOFING EXTERIOR CLOSURE 911,69 B40 ROOFING UNTERIOR ENTRUCTION 544,763 C30 INTERIOR CONTRUCTION 544,763 C30 INTERIOR ENTRUCTION 544,763 C30 INTERVISIONS 545,742 C30 INTERVISIONS C30 INTERVISIONS INCL SITE OVERHEAD 545,422 545,566,13 545,423 545,566,13 545,42 5455,	Phase: Feasibility Study Estimate SEC DESCRIPTION TO BUILDING: A10 FOUNDATIONS 370 A30 SLAB ON GRADE 142 B20 ROOF CONTRICTION 257 B30 EXTERIOR CLOSURE 911 B40 ROOF ING SUBJECT STATEMENT	0,691 2,826 7,085 1,690 7,793
SEC     DESCRIPTION     TOTAL       BUILDING:	SEC     DESCRIPTION     TO       BUILDING:     370       A10     FOUNDATIONS     370       A30     SLAB ON GRADE     142       B20     ROOF CONTRICTION     257       B30     EXTERIOR CLOSURE     911       B40     ROOFING     307       C10     INTERIOR CONSTRUCTION     554       C30     INTERIOR FINISHES     337       D20     PLUMBING     315       D30     HVAC     374       D40     FIRE PROTECTION     555       E10     EQUIPMENT     33       D50     ELECTRICAL     855       E10     EQUIPMENT     33       GENERAL CONDITIONS INCL SITE OVERHEAD     15%     675       GENERAL CONDITIONS INCL SITE OVERHEAD     15%     815       DESIGN/ESTIMATING CONTINGENCY     15%     815       TOTAL BUILDING DEMOLITION & MISC SITE WORK     322     326       STEWORK:     323     323     56,566       C20     SITE IMPROVEMENTS     Minor work - Allow     30       G30     SITE CIVIL / MECHANICAL UTILITIES     Minor work - Allow     30       G30     SITE CONDITIONS INCL SITE OVERHEAD     15%     61       GENERAL CONDITIONS INCL SITE OVERHEAD     5%     23	0,691 2,826 7,085 1,690 7,793
BUILDING:       A10     FOUNDATIONS     370.69       A30     SLAB ON GRADE     370.69       A30     SLAB ON GRADE     142.82       B20     ROOF CONTRICTION     257.08       B31     EXTERIOR CLOSURE     911.69       B40     ROOFING     307.79       C10     INTERIOR CONSTRUCTION     554.76       C30     INTERIOR FINISHES     337.42       D20     PLUMBING     315.86       D30     HVAC     374.41       D40     FIRE PROTECTION     3000       D50     ELECTRICAL     685.42       E10     EQUIPMENT     3000       D50     ELECTRICAL     845.42       D51     ELECTRICAL     545.42       D52     ELECTRICAL     545.42       D53     EVANCSO SO HAP, B&O TA:, Insurance     5%       D54     ECSINESTIMATING CONTINGENCY     15%       D55     ECONTRACTORS OHAP, B&O TA:, Insurance     5%       STEWORK:     322.46       F20     BUILDING DEMOLITION & MISC SITE WORK     322.46       G20     SITE IMPROVEMENTS     Minor work - Allow       GENERAL CONDITIONS INCL SITE WORK     322.46       G20     SITE IMPROVEMENTS     Minor work - Allow       GENERAL CONDITION & M	BUILDING:         370           A10         FOUNDATIONS         370           A30         SLAB ON GRADE         142           B20         ROOF CONTRICTION         257           B30         EXTERIOR CLOSURE         911           B40         ROOF ING         307           C10         INTERIOR FINISHES         307           C10         INTERIOR FINISHES         397           D20         PLUMBING         315           D31         HVAC         374           D40         FIRE PROTECTION         315           D50         ELECTRICAL         855           E10         EOUIPMENT         312           TOTAL BUILDING DIRECT COST         \$4,503           GENERAL CONTRACTOR'S OH&P, BAO Tax, Insurance         5%           DESIGN/ESTIMATING CONTINGENCY         15%           TOTAL BUILDING DIRECT COST         \$4,503           TOTAL BUILDING COST @ BID TODAY         9,217         \$F           STEEWORK:         322         56           C20         SITE MORCAL UTILITIES         Minor work - Allow         30           G30         SITE CONDITIONS INCL SITE WORK         322         323           GENERAL CONTRACTOR'S OH&P, BAO Tax, I	0,691 2,826 7,085 1,690 7,793
A10 FOUNDATIONS 370.68 A30 SLAB ON GRADE 370.68 A30 SLAB ON GRADE 142.82 ROOF CONTRICTION 257.08 B30 EXTERIOR CLOSURE 911.69 B40 ROOFING 307.79 B30 EXTERIOR CLOSURE 911.69 B40 ROOFING 3307.72 D10 INTERIOR FINISHES 377.42 D20 PLUMBING 337.42 D20 PLUMBING 335.86 D31 HVAC 337.44 D40 FIRE PROTECTION 554.76 D33 HVAC 337.44 D40 FIRE PROTECTION 30.00 E20 FURNISHINGS 12.377 TOTAL BUILDING DIRECT COST 54.763 DESIGNESTIMATING CONTINGENCY 15% 815.667 DESIGNESTIMATING CONTINGENCY 15% 815.667.13 TOTAL BUILDING CONTINGENCY 15% 312.677 TOTAL BUILDING CONTINGENCY 15% 312.677 TOTAL BUILDING CONTINGENCY 15% 815.666.13 SITEWORK: F20 BUILDING CONTINGENCY 15% 577.2.39 S6.566.13 SITE IMPROVEMENTS Minor work - Allow 30.001 G30 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 30.001 G30 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 30.001 G30 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 30.001 G30 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 30.001 G30 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 30.001 G30 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 30.001 G40 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 30.001 G41 SITE WORK COST @ BID TODAY 9.217 SF \$777.64 STEWORK: F20 BUILDING A MISC SITE WORK 332.46 GENERAL CONTITIONS INCL SITE OVERHEAD 15% 61.87 GENERAL CONTITIONS INCL SITE OVERHEAD 15% 61.87 GENERAL CONTITIONS INCL SITE OVERHEAD 15% 61.87 GENERAL CONTITIONS INCL SITE OVERHEAD 5% 23.83 TOTAL BUILDING & SITEWORK COST @ BID TODAY \$777.64 S777.64	A10 FOUNDATIONS 370 A30 SLAB ON GRADE 142 B20 ROOF CONTRICTION 257 B30 EXTERIOR CLOSURE 911 B40 ROOFING 307 C10 INTERIOR FINISHES 307 C10 INTERIOR FINISHES 397 D20 PLUMBING 3315 D30 HVAC 374 D40 FIRE PROTECTION 555 E10 EQUIPMENT 352 E10 EQUIPMENT 352 E10 EQUIPMENT 352 E10 EQUIPMENT 355 E10 EQUIPMENT 355 GENERAL CONTINGENCY 155% 815 TIGHT SECURITY CONDITIONS PREMIUM 55% 312 TOTAL BUILDING DEMOLITION & MISC SITE WORK 332 G20 SITE IMPROVEMENTS Minor work - Allow 30 G30 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 30 G30 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 30 G30 SITE IMPROVEMENTS MINOR with - Allow 30 G30 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 30 G30 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 50 TOTAL SITEWORK ISC SITE WORK 322 G20 SITE IMPROVEMENTS MINOR with - Allow 50 TOTAL SITEWORK COST 915% 74 TIGHT SECURITY CONDITIONS PREMIUM 55% 323 DESIGN/ESTIMATING CONTINGENCY 155% 613 GENERAL CONTRACTORS ON BAP. BAO Tax, Insurance 55% 223 DESIGN/ESTIMATING CONTINGENCY 155% 613 GENERAL CONTRACTORS ON BAP. BAO Tax, Insurance 55% 233 DESIGN/ESTIMATING CONTINGENCY 155% 613 GENERAL CONTRACTORS ON BAP. BAO Tax, Insurance 55% 233 DESIGN/ESTIMATING CONTINGENCY 155% 613 GENERAL CONTRACTORS ON BAP. BAO Tax, Insurance 55% 233 DESIGN/ESTIMATING CONTINGENCY 155% 74 TOTAL SITEWORK COST @ BID TODAY \$777.64 \$7.167 EXCLUSIONS: Permits Construction Management Fees	0,691 2,826 7,085 1,690 7,793
A30 SLAB ON GRADE 142,28 B20 ROOF CONTRICTION 1257,08 B30 EXTENIOR CLOSURE 911,69 B40 ROOFING 0307,78 C10 INTERIOR CONSTRUCTION 554,76 C10 INTERIOR FINISHES 937,42 D20 PLUMBING 315,86 D30 HVAC 374,411 D40 FIRE PROTECTION 950 ELECTRICAL 855,42 E10 EQUIPMENT 3,00 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 675,500 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 815,680 TIGHT SECURITY CONDITIONS PREMIUM 5% 28,84 DESIGN/ESTIMATING CONTINGENCY 15% 815,660 TIGHT SECURITY CONDITIONS PREMIUM 5% 312,677 TOTAL BUILDING COST @ BID TODAY 9,217 SF \$712.39 \$5,566,132 SITE WORK: F20 BUILDING DEMOLITION & MISC SITE WORK 332,467 GENERAL CONTRACTORS 04,89 DT av., Insurance 5% 23,717 TOTAL BUILDING COST @ BID TODAY 9,217 SF \$712.39 \$5,566,132 SITE WORK: F20 BUILDING DEMOLITION & MISC SITE WORK 332,467 GENERAL CONTRACTORS 04,80 Tax, Insurance 5% 23,717 D5316,200 TOTAL SITEWORK 03,000 TOTAL SITEWORK DIRECT COST 412,464 GENERAL CONTRACTORS 04,80 Tax, Insurance 5% 23,717 DESIGN/ESTIMATING CONTINGENCY 15% 61,377 GENERAL CONTRACTORS 04,80 Tax, Insurance 5% 23,717 DESIGN/ESTIMATING CONTINGENCY 15% 74,700 TOTAL SITEWORK DIRECT COST 412,464 GENERAL CONTRACTORS 04,80 Tax, Insurance 5% 23,717 DESIGN/ESTIMATING CONTINGENCY 15% 74,700 TOTAL SITEWORK DIRECT COST 412,464 GENERAL CONTRACTORS 04,80 Tax, Insurance 5% 23,717 DESIGN/ESTIMATING CONTINGENCY 15% 74,700 TOTAL SITEWORK COST @ BID TODAY 577.64 \$7,167,500 EXCLUSIONS: Permits Construction Management Fees Furnishings/Equip Not Listed Traffic Control A/E Fees Artwork/Installations Escalation Legends GSF Gross Square Feet CY Cubic Yard FPA Foot Print Area SY Square Yard UFA Upper Floor Area ACR Are RA ROO FARE CONTRACTORS CHE PD TO Fire	A30 SLAB ON GRADE 142 B20 ROOF CONTRICTION 257 B30 EXTERIOR CLOSURE 9111 B40 ROOFING 0307 C10 INTERIOR CONSTRUCTION 554 C30 INTERIOR FINISHES 397 D20 PLUMBING 315 D30 HVAC 3744 D40 FIRE PROTECTION 550 ELECTRICAL 3744 D40 FIRE PROTECTION 312 TOTAL BUILDING DIRECT COST 54,503 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 675 GENERAL CONDITIONS INCL SITE OVERHEAD 55% 312 TOTAL BUILDING COST 9180 TODAY 9,217 SF \$712.39 \$6,566 STEWORK: F20 BUILDING DEMOLITION & MISC SITE WORK 332 G20 SITE IMPROVEMENTS Minor work - Allow 30 G30 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 50 TOTAL SITEWORK DIRECT COST 412 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 611 GENERAL CONDITIONS INCL SITE WORK 332 G20 SITE IMPROVEMENTS Minor work - Allow 50 TOTAL SITEWORK DIRECT COST 412 GENERAL CONTING CONTINGENCY 15% 777.64 S777.64 \$7,167 EXCLUSIONS: Permits Construction Management Fees	2,826 7,085 1,690 7,793
B20     ROOF CONTRICTION     257,08       B30     EXTERIOR CLOSURE     911,68       B40     ROOFING     307,73       C10     INTERIOR CONSTRUCTION     554,76       C30     INTERIOR FINISHES     337,42       D20     PLUMBING     315,86       D30     HVAC     374,41       D40     FIRE PROTECTION     345,86       D50     ELECTRICAL     855,42       D50     ELECTRICAL     84,503,34       GENERAL CONTRACTORS OH&P, B&O Tax, Insurance     5%     28,844       DESIGN/ESTIMATING CONTINGENCY     15%     815,666, 13       DESIGN/ESTIMATING CONTINGENCY     15%     815,666, 13       SITEWORK:       SITEWORK:       SITEWORK:       SITEWORK:       SITEWORK:       SITEWORK:       SITEWORK:       SITEWORK:       SITE WORK COST @ BID TODAY       9,217 SF       STOUL / MECHANICAL UTILITIES       Minor work - Allow       30,000       CONTRACTOR'S OH&P, B&O Tax, Insurance       S'TORAL CONTINCTACTOR'S OH&P, B&O Tax, Insurance       CONTINCENCY       TOTAL BUILD	B20       ROOF CONTRICTION       257         B30       EXTERIOR CLOSURE       911         B40       ROOFING       307         C10       INTERIOR CONSTRUCTION       554         C30       INTERIOR FINISHES       397         D20       PLUMBING       315         D30       HVAC       374         D40       FIRE PROTECTION       315         D50       ELECTRICAL       855         E10       EQUIPMENT       3         E20       FURNISHINGS       12         TOTAL BUILDING DIRECT COST       \$4,503         GENERAL CONTRICTIONS INCL SITE OVERHEAD       15%         DESIGN/ESTIMATING CONTINGENCY       15%         DESIGN/ESTIMATING CONTINGENCY       15%         DESIGN/ESTIMATING CONTINGENCY       15%         TOTAL BUILDING DEMOLITION & MISC SITE WORK       322         G20       SITE EWORK:       322         G20       SITE EMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SUPPONEMENTS       15%       74       75%       23         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       74 <td>7,085 1,690 7,793</td>	7,085 1,690 7,793
B30 EXTERIOR CLOSURE 911.69 B40 ROOFING 307,73 C10 INTERIOR FINISHES 307,74 C23 INTERIOR FINISHES 397,42 D20 PLUMBING 315,66 D30 HVAC 315,66 D30 HVAC 315,66 D30 HVAC 315,67 D20 ELECTRICAL 855,42 C10 EQUIPMENT 30,00 E20 FURNISHINGS 112,37 TOTAL BUILDING DIRECT COST 54,503,44 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 675,50 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 675,50 GENERAL CONTINCEONT 15% 15% 815,66,13 DESIGN/ESTIMATING CONTINGENCY 15% 812,67 TOTAL BUILDING DEMOLITION & MISC SITE WORK 332,46 G20 SITE IMPROVEMENTS Minor work - Allow 30,00 TOTAL SITEWORK DIRECT COST 412,46 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 61,37 TOTAL BUILDING DEMOLITION & MISC SITE WORK 332,46 G20 SITE IMPROVEMENTS Minor work - Allow 30,00 TOTAL SITEWORK DIRECT COST 412,46 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 61,37 GENERAL CONDITIONS PREMIUM 5% 28,536 TOTAL SITEWORK DIRECT COST 412,46 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 61,37 GENERAL CONDITIONS PREMIUM 5% 28,633 TOTAL SITEWORK COST @ BID TODAY 5% 28,633 TOTAL SURPORK COST @ BID TODAY 5% 777.64 FPA FoOI Print Area SY Square Yard UFA Upper Floor Area ACR Area FA Roof Area ACR Area	B30     EXTERIOR CLOSURE     911       B40     ROOFING     307       C10     INTERIOR CONSTRUCTION     554       C30     INTERIOR FINISHES     397       D20     PLUMBING     315       D30     HVAC     374       D40     FIRE PROTECTION     315       D50     ELECTRICAL     855       E10     EQUIPMENT     33       E20     FURNISHINGS     12       TOTAL BUILDING DIRECT COST     \$4,503       GENERAL CONTRICTORS OH&P, B&O Tax, Insurance     5%       DESIGN/ESTIMATING CONTINGENCY     15%       B15     TIGHT SECURITY CONDITIONS PREMIUM     5%       SITEWORK:     322       F20     BUILDING DEMOLITION & MISC SITE WORK     322       G30     SITE EVICI, MECHANICAL UTILITIES     Minor work - Allow       G30     SITE EVICIL MECHANICAL UTILITIES     Minor work - Allow       G30     SITE EVICIL MECHANICAL UTILITIES     Minor work - Allow       GENERAL CONDITIONS INCL SITE OVERHEAD     15%     74       GENERAL CONDITIONS INCL SITE OVERHEAD     15%     7	1,690 7,793
B40     ROOFING     307,72       C10     INTERIOR FUNSHES     554,76       C30     INTERIOR FUNSHES     397,42       D20     PLUMBING     315,86       D31     HVAC     374,41       D40     FILE PROTECTION     315,86       D30     ELECTRICAL     855,42       E10     EQUIPMENT     3,00       D50     ELECTRICAL     855,42       E10     EQUIPMENT     3,00       TOTAL BUILDING DIRECT COST     54,503,34       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%       GENERAL CONTITIONS INCL SITE OVERHEAD     15%       GENERAL CONDITIONS PREMIUM     5%       JECSIONESTIMATING CONTINGENCY     15%       TOTAL BUILDING COST @ BID TODAY     9,217       STEWORK:     32,464       GENERAL CONTITIONS INCL SITE OVERHEAD     15%       G30     SITE MPROVEMENTS     Minor work - Allow       G30     SITE MVORK DIRECT COST     412,44       GENERAL CONTINOS INCL SITE OVERHEAD     15%     61,87       GENERAL CONTINCENCY     15%     3,710       GENERAL CONTINOS INCL SITE OVERHEAD     15%     61,87       GENERAL CONTINOS INCL SITE OVERHEAD     15%     61,87       <	B40     ROOFING     307       C10     INTERIOR CONSTRUCTION     554       C30     INTERIOR FINISHES     397       D20     PLUMBING     315       D30     HVAC     374       D40     FIRE PROTECTION     315       D50     ELECTRICAL     855       E10     EQUIPMENT     3       E20     FURNISHINGS     12       TOTAL BUILDING DIRECT COST     \$4,503       GENERAL CONDITIONS INCL SITE OVERHEAD     15%       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%       D510     ESIGN/ESTIMATING CONTINGENCY     15%       TOTAL BUILDING DEMOLITION & MISC SITE WORK     332       G20     SITE EWORK:     322       F20     BUILDING DEMOLITION & MISC SITE WORK     332       G20     SITE IMPROVEMENTS     Minor work - Allow       G30     SITE CIVIL / MECHANICAL UTILITIES     Minor work - Allow       G30     SITE CIVIL / MECHANICAL UTILITIES     Minor work - Allow       G41     GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%       G30     SITE WORK COST @ BID TODAY     \$777.64       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%       DESIGN/ESTIMATING CONTINGENCY     15% <tr< td=""><td>7,793</td></tr<>	7,793
C10 NTERIOR CONSTRUCTION 554,70 C30 INTERIOR FINISHES 397,42 D20 PLUMBING 315,86 D30 HVAC 374,411 D40 FIRE PROTECTION 315,86 D30 HVAC 374,411 D40 FIRE PROTECTION 315,87 D50 ELECTRICAL 855,42 E10 EQUIPMENT 3,000 E20 FURNISHINGS 12,377 TOTAL BUILDING DIECT COST 544,503,34 GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance 5% 258,94 DESIGN/ESTIMATING CONTINGENCY 15% 815,666, TIGHT SECURITY CONDITIONS PREMIUM 5% 312,677 TOTAL BUILDING DEMOLITION & MISC SITE WORK 322,467 GENERAL CONTRACTOR'S OH&P, B&O TAX, Insurance 5% 258,944 DESIGN/ESTIMATING CONTINGENCY 15% 815,666,137 TOTAL BUILDING DEMOLITION & MISC SITE WORK 322,467 GENERAL CONDITIONS PREMIUM 5% 312,677 TOTAL BUILDING DEMOLITION & MISC SITE WORK 322,467 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 61,877 GENERAL CONTINGENCY 15% 74,700 TOTAL SITEWORK DIFECT COST 442,464 GENERAL CONTING CONTINGENCY 15% 74,700 TIGHT SECURITY CONDITIONS PREMIUM 5% 23,717. DESIGN/ESTIMATING CONTINGENCY 15% 74,700 TIGHT SECURITY CONDITIONS PREMIUM 5% 23,717. DESIGN/ESTIMATING CONTINGENCY 15% 74,700 TIGHT SECURITY CONDITIONS PREMIUM 5% 248,633 TOTAL BUILDING & SITEWORK COST @ BID TODAY \$777.64 ST77.64 FPA Foot Print Area SY Square Yard UFA Upper Floor Area ACR Acre FA Roof Area EA Each WIM Extensional Acre FA Roof Area EA Each	C10 INTERIOR CONSTRUCTION 554 C30 INTERIOR FINISHES 397 D20 PLUMBING 315 D30 HVAC 3174 D40 FIRE PROTECTION 3174 D50 ELECTRICAL 855 E10 EQUIPMENT 33 E20 FURNISHINGS 12 TOTAL BUILDING DIRECT COST 54,503 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 675 GENERAL CONTINGENCY 15% 815 TIGHT SECURITY CONDITIONS PREMIUM 5% 312 TOTAL BUILDING DERECT COST 412 GENERAL CONDITIONS PREMIUM 5% 312 TOTAL BUILDING COST @ BID TODAY 9,217 SF 8712.39 \$6,566 TOTAL STEEWORK: 332 G30 SITE CIVIL / MECHANDICAL UTILITIES Minor work - Allow 30 G30 SITE CIVIL / MECHANDICAL UTILITIES Minor work - Allow 50 TOTAL SITEWORK 015% 0148P, B&O Tax, Insurance 5% 233 DESIGN/ESTIMATING CONTINGENCY 15% 611 GENERAL CONDITIONS INCL SITE OVERHEAD 55% 312 TOTAL BUILDING DEMOLITION & MISC SITE WORK 332 G20 SITE IMPROVEMENTS Minor work - Allow 50 TOTAL SITEWORK 055 015% 0149 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 61 GENERAL CONDITIONS INCL SITE OVERHEAD 55% 233 DESIGN/ESTIMATING CONTINGENCY 15% 74 TIGHT SECURITY CONDITIONS PREMIUM 5% 28 TOTAL SITEWORK COST @ BID TODAY \$777.64 \$777.64 \$777.64 \$777.64 \$777.64 \$777.64 \$777.64 \$777.64 \$777.64 \$777.64 \$777.64 \$777.64 \$777.64 \$777.64 \$777.64 \$777.64	
C30 INTERIOR FINISHES 337.42 D20 PLUMBING 3315.86 D30 HVAC 315.86 D30 HVAC 315.86 D30 HVAC 315.86 D31 HVAC 317.41 D40 FIRE PROTECTION 5 ELECTRICAL 685.42 E10 EQUIPMENT 3.00 E20 FURNISHINGS INCL SITE OVERHEAD 15% 675.50 GENERAL CONTRACTOR'S OH&P. B&O Tax, Insurance 5% 238.94 DESIGN/ESTIMATING CONTINGENCY 15% 815.663 TIGHT SECURITY CONDITIONS PREMIUM 5% 312.67 TOTAL BUILDING DEMOLITION & MISC SITE WORK 322.46 GENERAL CONTROCTOR'S OH&P. B&O Tax, Insurance 5% 238.71 TOTAL BUILDING DEMOLITION & MISC SITE WORK 322.46 GENERAL CONTROCTOR'S OH&P. B&O TAX, Insurance 5% 312.67 TOTAL BUILDING DEMOLITION & MISC SITE WORK 322.46 GENERAL CONTROCTOR'S OH&P. B&O TAX, Insurance 5% 237.71 DESIGN/ESTIMATING CONTINGENCY 9.217 SF \$712.39 SF,566,13- TOTAL BUILDING DEMOLITION & MISC SITE WORK 322.46 GENERAL CONTROCTOR'S OH&P. B&O TAX, Insurance 5% 237.71 DESIGN/ESTIMATING CONTINGENCY 15% 61.37 GENERAL CONTROCTOR'S OH&P. B&O TAX, Insurance 5% 237.71 DESIGN/ESTIMATING CONTINGENCY 15% 74.700 TOTAL SITEOWRK COST 0HBP. B&O TAX, Insurance 5% 23.71,71 DESIGN/ESTIMATING CONTINGENCY 15% 74.700 TOTAL SITEOWRK COST @ BID TODAY \$777.64 ST77.64	C30 INTERIOR FINISHES 397 D20 PLUMBING 336 D30 HVAC 374 D40 FIRE PROTECTION 374 D40 FIRE PROTECTION 332 E20 FURNISHINGS 12 TOTAL BUILDING DIRECT COST 544,503 GENERAL CONTRACTOR'S OHAP, B&O Tax, Insurance 5% 258 DESIGN/ESTIMATING CONTINGENCY 15% 815 TIGHT SECURITY CONDITIONS PREMIUM 5% 312 TOTAL BUILDING DEMOLITION & MISC SITE WORK 332 G20 SITE IMPROVEMENTS Minor work - Allow 30 G30 SITE CYUL / MECHANICAL UTILITIES Minor work - Allow 30 G30 SITE CYUL / MECHANICAL UTILITIES Minor work - Allow 30 G30 SITE CYUL / MECHANICAL UTILITIES Minor work - Allow 30 G30 SITE CYUL / MECHANICAL UTILITIES Minor work - Allow 30 G30 SITE CYUL / MECHANICAL UTILITIES MINOR work - Allow 50 TOTAL BUILDING COST @ BID TODAY 5% 233 DESIGN/ESTIMATING CONTINGENCY 15% 61 GENERAL CONTRACTOR'S OHAP, B&O Tax, Insurance 5% 233 DESIGN/ESTIMATING CONTINGENCY 15% 74 TIGHT SECURITY CONDITIONS PREMIUM 5% 28 TOTAL SITEWORK COST @ BID TODAY 5% 28 TOTAL SITEWORK COST @ BID TODAY 5% 28 TOTAL SITEWORK COST @ BID TODAY 5% 2777.64 \$777.64 \$77,167 EXCLUSIONS: Permits Construction Management Fees	4,768
D20     PLUMBING     315,86       D30     HVAC     374,411       D40     FIRE PROTECTION     855,422       D50     ELECTRICAL     855,422       E10     EQUIPMENT     3,001       E20     FURNISHINGS     12,371       TOTAL BUILDING DIRECT COST     54,503,341       GENERAL CONDITIONS INCL SITE OVERHEAD     15%       DESIGN/ESTIMATING CONTINGENCY     15%       DESIGN/ESTIMATING CONTINGENCY     15%       050     SITEWORK:       F20     BUILDING DEMOLITION & MISC SITE WORK       030     STEWORK:       F20     BUILDING DEMOLITION & MISC SITE WORK       030     STE WORK DEMOLITION & MISC SITE WORK       030     SITE WORK DIRECT COST       412,460     GENERAL CONDITIONS INCL SITE OVERHEAD       040     TOTAL SITEWORK DIRECT COST       412,460     GENERAL CONTRICONS OH&, B&O TAX, Insurance       040     TOTAL SITEWORK DIRECT COST       412,460     GENERAL CONDITIONS INCL SITE OVERHEAD       05%     23,711       040     TOTAL SITEWORK DIRECT COST       412,460     GENERAL CONTRICTORS OH&, B&O TAX, Insurance       05%     28,633       TOTAL SUPENMENTATION CONDITIONS PREMIUM       05%     28,633       104E Fees     Artwork/Installati	D20       PLUMBING       315         D30       HVAC       374         D40       FIRE PROTECTION       355         E10       EQUIPMENT       3         E20       FURNISHINGS       12         TOTAL BUILDING DIRECT COST       \$4,503         GENERAL CONDITIONS INCL SITE OVERHEAD       15%         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%         DESIGN/ESTIMATING CONTINGENCY       15%         TIGHT SECURITY CONDITIONS PREMIUM       5%         SITEWORK:       322         F20       BUILDING DEMOLITION & MISC SITE WORK       332         G20       SITE IMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       30         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONDITIONS PREMIUM       5%       23       DESIGN/ESTIMATING CONTINGENCY       412	7,421
D30     HVAC     374,411       D40     FIRE PROTECTION     365,42       D50     ELECTRICAL     855,42       E10     EQUIPMENT     3.00       E20     FURNISHINGS     12,37       TOTAL BUILDING DIRECT COST     \$4,503,34       GENERAL CONDITIONS INCL SITE OVERHEAD     15%       GENERAL CONTRACTOR'S OHAP, B&O Tax, Insurance     5%       DESIGNESTIMATING CONTINCENCY     15%       D51     BUILDING COST @ BID TODAY       9,217     SF       STTEWORK:     332,46       G20     SITE MORKI       F20     BUILDING DENCLITION & MISC SITE WORK       G20     SITE MORK DIRECT COST       G20     SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow     30,000       G30     SITE CIVIL / MECHANICAL UTILITIES       GENERAL CONTRACTORS OHAP, B&O Tax, Insurance     5%       G21     STITEWORK DIRECT COST       GENERAL CONTRACTORS OHAP, B&O Tax, Insurance     5%       G21     STIT       DESIGN/ESTIMATING CONTINGENCY     15%       DESIGN/ESTIMATING CONTINGENCY     15%       DESIGN/ESTIMATING CONTINGENCY     15%       <	D30       HVAC       374         D40       FIRE PROTECTION       374         D50       ELECTRICAL       855         E10       EQUIPMENT       3         E20       FURNISHINGS       12         TOTAL BUILDING DIRECT COST       \$4,503         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       675         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       258         DESIGN/ESTIMATING CONTINGENCY       15%       815         TIGHT SECURITY CONDITIONS PREMIUM       5%       312         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$6,566         SITEWORK:         F20       BUILDING DEMOLITION & MISC SITE WORK       332         G20       SITE EIVPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74       TIGHT SECURITY CONDITIONS PREMIUM       5%       28         TOTAL SITEOWRK COST @ BID TODAY       \$777.64       \$77.167       \$777.64       \$77.167 <tr< td=""><td>5,864</td></tr<>	5,864
D40       FIRE PROTECTION         D50       ELECTRICAL       855,42         E10       EQUIPMENT       3,00         E20       FURNISHINGS       12,37         TOTAL BUILDING DIRECT COST       \$4,503,34         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       675,500         GENERAL CONTRACTORS OHAP, B&O Tax, Insurance       5%       28,844         DESIGN/ESTIMATING CONTINGENCY       15%       815,660         TIGHT SECURITY CONDITIONS PREMIUM       5%       312,67         TOTAL BUILDING OST @ BID TODAY       9,217       SF       \$712.39       \$6,566,13         SITEWORK:         F20       BUILDING DEMOLITION & MISC SITE WORK       332,466         G20       SITE IMPROVEMENTS       Minor work - Allow       30,000         G30       SITE WORK DIRECT COST       412,464         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61,870         GENERAL CONTRACTOR'S OHAP, B&O Tax, Insurance       5%       23,8,11         DESIGN/ESTIMATING CONTINGENCY       15%       74,700         TOTAL SITEWORK DIRECT COST       412,464         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61,870         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       23,7	D40       FIRE PROTECTION         D50       ELECTRICAL       855         E10       EQUIPMENT       3         E20       FURNISHINGS       12         TOTAL BUILDING DIRECT COST       \$4,503         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       675         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       258         DESIGN/ESTIMATING CONTINGENCY       15%       815         TIGHT SECURITY CONDITIONS PREMIUM       5%       312         TOTAL BUILDING DEMOLITION & MISC SITE WORK       332         G20       SITE IMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412       GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74       74       74         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61       6601       65%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74       74       76       74 <t< td=""><td>4,416</td></t<>	4,416
D50     ELECTRICAL     865,42       E10     EQUIPMENT     3,000       E20     FURNISHINGS     12,371       TOTAL BUILDING DIRECT COST     \$4,503,34       GENERAL CONDITIONS INCL SITE OVERHEAD     15%     675,500       GENERAL CONTRACTOR'S 0H&P, B&O Tax, Insurance     5%     228,844       DESIGN/ESTIMATING CONTINGENCY     15%     815,660       TOTAL BUILDING DEMOLITION'S PREMIUM     5%     312,677       TOTAL BUILDING COST @ BID TODAY     9,217     SF     \$712.39       \$6,566,13     SITEWORK:     332,467       F20     BUILDING DEMOLITION'S MISC SITE WORK     332,467       G20     SITE IMPROVEMENTS     Minor work - Allow     30,000       G30     SITE CIVIL / MECHANICAL UTILITIES     Minor work - Allow     30,000       G30     SITE CONDITIONS INCL SITE OVERHEAD     15%     61,871       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%     23,711       DESIGN/ESTIMATING CONTINGENCY     15%     74,700       TIGHT SECURITY CONDITIONS PREMIUM     5%     28,633       TOTAL SITEOWRK COST @ BID TODAY     \$777.64     \$7,167,500       EXCLUSIONS:     Construction Management Fees     Furnishings/Equip Not Listed     Traffic Control       A/E Fees     Artwork/Installations     Escalation     S67 Gr	D50       ELECTRICAL       855         E10       EQUIPMENT       3         E20       FURNISHINGS       12         TOTAL BUILDING DIRECT COST       \$4,503         GENERAL CONDITIONS INCL SITE OVERHEAD       15%         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%         DESIGN/ESTIMATING CONTINGENCY       15%         TIGHT SECURITY CONDITIONS PREMIUM       5%         TOTAL BUILDING DEMOLITION & MISC SITE WORK       332         G20       SITE IMPROVEMENTS       Minor work - Allow         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28         DESIGN/ESTIMATING CONTINGENCY       15%       74         TOTAL BUILDING & SITEWORK COST @ BID TODAY       \$777.64       \$77.64         EXCLUSIONS:       Permits <td></td>	
E10 EQUIPMENT 3,000 E20 FURNISHINGS 12,377 TOTAL BUILDING DIRECT COST \$4,503,347 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 675,500 GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance 5% 258,947 DESIGNESTIMATING CONTINGENCY 15% 815,667 TIGHT SECURITY CONDITIONS PREMIUM 5% 312,677 TOTAL BUILDING COST @ BID TODAY 9,217 SF \$7712.39 \$6,566,13 SITEWORK: F20 BUILDING DEMOLITION & MISC SITE WORK 332,467 G20 SITE IMPROVEMENTS Minor work - Allow 30,000 G30 SITE CIVIL / MECHANICAL UTILITIES Minor work - Allow 50,000 TOTAL SITEWORK DIRECT COST 412,464 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 61,877 GENERAL CONDITIONS INCL SITE OVERHEAD 15% 61,877 GENERAL CONDITIONS INCL SITE OVERHEAD 5% 23,711 DESIGN/ESTIMATING CONTINGENCY 15% 74,700 TIGHT SECURITY CONDITIONS PREMIUM 5% 28,633 TOTAL SITEWORK COST @ BID TODAY \$601,397 TOTAL SITEWORK COST @ BID TODAY \$777.64 \$7,167,500 EXCLUSIONS: Permits Construction Management Fees Furnishings/Equip Not Listed Traffic Control A/E Fees Artwork/Installations Escalation Legends GSF Gross Square Feet CY Cubic Yard FPA Foot Print Area SY Square Yard UFA Upper Floor Area ACR Acre RA Roof Area EA Each WING Extensional Acro	E10       EQUIPMENT       3         E20       FURNISHINGS       12         TOTAL BUILDING DIRECT COST       \$4,503         GENERAL CONDITIONS INCL SITE OVERHEAD       15%         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%         DESIGN/ESTIMATING CONTINGENCY       15%         TIGHT SECURITY CONDITIONS PREMIUM       5%         SITEWORK:       5%         F20       BUILDING DEMOLITION & MISC SITE WORK         SITEWORK:       332         G20       SITE IMPROVEMENTS         Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES         Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412         GENERAL CONDITIONS INCL SITE OVERHEAD       15%         GENERAL CONDITIONS INCL SITE OVERHEAD       5%         GENERAL CONDITIONS INCL SITE OVERHEAD       15%         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%         DESIGN/ESTIMATING CONTINGENCY       15%         TOTAL SITEOWRK COST @ BID TODAY       \$777.64         TOTAL BUILDING & SITEWORK COST @ BID TODAY       \$777.64         EXCLUSIONS:       Permits       Construction Management Fees	5,424
E20       FURNISHINGS       12,37         TOTAL BUILDING DIRECT COST       \$4,503,34         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       675,50;         GENERAL CONTRACTORS OH&P, B&O Tax, Insurance       5%       258,94;         DESIGN/ESTIMATING CONTINGENCY       15%       815,66;         TIGHT SECURITY CONDITIONS PREMIUM       5%       312,67;         TOTAL BUILDING OEST @ BID TODAY       9,217       SF       \$712.39       \$6,566,13         SITEWORK:         F20       BUILDING DEMOLITION & MISC SITE WORK       332,46;         G20       SITE IMPROVEMENTS       Minor work - Allow       30,000         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       30,000         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61,87         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61,87         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       23,711         DESIGN/ESTIMATING CONTINGENCY       15%       24,46         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       24,47         GENERAL CONDITIONS INCL SITE OVERHEAD       5%       23,711         DESIGN/ESTIMATING CONTINGENCY       15%       61,87         GENERAL CONDITIONS PREMIUM	E20       FURNISHINGS       12         TOTAL BUILDING DIRECT COST       \$4,503         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       675         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       288         DESIGN/ESTIMATING CONTINGENCY       15%       815         TIGHT SECURITY CONDITIONS PREMIUM       5%       312         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$66,566         SITEWORK:       332         G20       SITE IMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONDITIONS INCL SITE OVERHEAD       5%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28         TOTAL SITEWORK COST @ BID TODAY       \$777.64       \$7,167         EXCLUSIONS:       Permits       Construction Management Fees	3,000
TOTAL BUILDING DIRECT COST       \$4,503,34'         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       675,500'         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       258,94'         DESIGNESTIMATING CONTINGENCY       15%       815,66'         TIGHT SECURITY CONDITIONS PREMIUM       5%       312,67'         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$6,566,13'         SITEWORK:       332,46'       G20       SITE IMPROVEMENTS       Minor work - Allow       30,000'         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       30,000'         GENERAL CONTRACTORS OH&P, B&O Tax, Insurance       5%       23,71'         GENERAL CONTRACTORS OH&P, B&O Tax, Insurance       5%       23,71'         DESIGN/ESTIMATING CONTINGENCY       15%       74,700'         TIGHT SECURITY CONDITIONS PREMIUM       5%       28,633'         TOTAL BUILDING & SITEWORK COST @ BID TODAY       \$777.64'       \$7,167,500'         EXCLUSIONS:       Permits       Construction Management Fees         Furnishings/Equip Not Listed       Traffic Control       A/E Fees         A/E Fees       Artwork/Installations       Escalation         Legends       GSF Gross Square Feet       CY Cubic Yard <td>TOTAL BUILDING DIRECT COST       \$4,503         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       675         GENERAL CONTRACTOR'S OH&amp;P, B&amp;O Tax, Insurance       5%       258         DESIGN/ESTIMATING CONTINGENCY       15%       815         TIGHT SECURITY CONDITIONS PREMIUM       5%       312         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$6,566         SITEWORK:       332         G20       SITE IMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412       GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61       GENERAL CONDITIONS INCL SITE OVERHEAD       5%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28       74       75%       28         TOTAL SITEOWRK COST @ BID TODAY       \$601       5%       28       777.64       \$7,167         EXCLUSIONS:       Permits       Construction Management Fees       5777.64       \$7,167</td> <td>2,370</td>	TOTAL BUILDING DIRECT COST       \$4,503         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       675         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       258         DESIGN/ESTIMATING CONTINGENCY       15%       815         TIGHT SECURITY CONDITIONS PREMIUM       5%       312         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$6,566         SITEWORK:       332         G20       SITE IMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412       GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61       GENERAL CONDITIONS INCL SITE OVERHEAD       5%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28       74       75%       28         TOTAL SITEOWRK COST @ BID TODAY       \$601       5%       28       777.64       \$7,167         EXCLUSIONS:       Permits       Construction Management Fees       5777.64       \$7,167	2,370
GENERAL CONDITIONS INCL SITE OVERHEAD       15%       675,50;         GENERAL CONTRACTORS OH&P, B&O Tax, Insurance       5%       225,94;         DESIGN/ESTIMATING CONTINGENCY       15%       815,66;         TIGHT SECURITY CONDITIONS PREMIUM       5%       312,67;         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$6,566,13;         SITEWORK:       50       332,46;       332,46;       332,46;         G20       SITE IMPROVEMENTS       Minor work - Allow       30,000         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50,000         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61,87/         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61,87/         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       74,700         DESIGN/ESTIMATING CONTINGENCY       15%       74,700         TIGHT SECURITY CONDITIONS PREMIUM       5%       28,633         TOTAL BUILDING & SITEWORK COST @ BID TODAY       \$777.64       \$7,167,500         EXCLUSIONS:       Permits       Construction Management Fees       Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations       Escalation       SY Square Yard       UFA Upper Floor Area	GENERAL CONDITIONS INCL SITE OVERHEAD       15%       675         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       258         DESIGN/ESTIMATING CONTINGENCY       15%       815         TIGHT SECURITY CONDITIONS PREMIUM       5%       312         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$6,566         SITEWORK:         F20       BUILDING DEMOLITION & MISC SITE WORK       332         G20       SITE IMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28         TOTAL SITEOWRK COST @ BID TODAY       \$601         TOTAL SITEOWRK COST @ BID TODAY       \$777.64       \$7,167         EXCLUSIONS:       Permits       Construction Management Fees       \$777.64	3,347
GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%     258,94:       DESIGN/ESTIMATING CONTINGENCY     15%     815,66:       TIGHT SECURITY CONDITIONS PREMIUM     5%     312,67:       TOTAL BUILDING COST @ BID TODAY     9,217     SF     \$7712.39     \$6,566,13:       SITEWORK:       F20     BUILDING DEMOLITION & MISC SITE WORK     332,46:       G20     SITE IMPROVEMENTS     Minor work - Allow     30,000       G30     SITE CIVIL / MECHANICAL UTILITIES     Minor work - Allow     50,000       G30     SITE CONDITIONS INCL SITE OVERHEAD     15%     61,870       GENERAL CONDITIONS INCL SITE OVERHEAD     15%     61,870       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%     23,711       DESIGN/ESTIMATING CONTINGENCY     15%     61,870       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%     28,633       TOTAL SITEOWRK COST @ BID TODAY     \$601,391       TOTAL BUILDING & SITEWORK COST @ BID TODAY       ST77.64     \$7,167,500       EXCLUSIONS:       Permits     Construction Management Fees       Furnishings/Equip Not Listed     Traffic Control       A/E Fees     Artwork/Installations       Escalation     SY Square Yard       UFA Upper Floor Area     ACR Acre	GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       258         DESIGN/ESTIMATING CONTINGENCY       15%       815         TIGHT SECURITY CONDITIONS PREMIUM       5%       312         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$6,566         SITEWORK:         F20       BUILDING DEMOLITION & MISC SITE WORK       332         G20       SITE IMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28         TOTAL SITEOWRK COST @ BID TODAY       \$601         TOTAL BUILDING & SITEWORK COST @ BID TODAY         \$777.64       \$7,167         EXCLUSIONS:         Permits       Construction Management Fees	5,502
DESIGN/ESTIMATING CONTINGENCY       15%       815,66         TIGHT SECURITY CONDITIONS PREMIUM       5%       312,67         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$6,566,13         SITEWORK:         F20       BUILDING DEMOLITION & MISC SITE WORK       332,46         G20       SITE IMPROVEMENTS       Minor work - Allow       30,000         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50,000         TOTAL SITEWORK DIRECT COST       412,46         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       23,711         DESIGN/ESTIMATING CONTINGENCY       15%       61,870         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       28,633         TOTAL SITEOWRK COST @ BID TODAY       \$601,393         TOTAL SITEOWRK COST @ BID TODAY       \$777.64       \$7,167,500         EXCLUSIONS:       Permits       Construction Management Fees       Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations       Escalation       S777.64       \$7,167,500         Legends       GSF Gross Square Feet       CY Cubic Yard       FPA Foot Print Area       SY Square Yard         UFA Upper Floor Area       ACR Acre       RA	DESIGN/ESTIMATING CONTINGENCY       15%       815         TIGHT SECURITY CONDITIONS PREMIUM       5%       312         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$6,566         SITEWORK:       322         G20       SITE IMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONTINGENCY       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28         DESIGN/ESTIMATING CONTINGENCY       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28         TOTAL SITEOWRK COST @ BID TODAY       \$601       \$777.64       \$7,167         EXCLUSIONS:       Permits       Construction Management Fees       \$777.64       \$7,167	8,942
TIGHT SECURITY CONDITIONS PREMIUM       5%       312,67.         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$6,566,13         SITEWORK:       332,46.       322       G20       SITE IMPROVEMENTS       Minor work - Allow       30,00         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       30,00         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50,000         TOTAL SITEWORK DIRECT COST       412,466         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61,870         GENERAL CONDITIONS OH&P, B&O Tax, Insurance       5%       23,711         DESIGN/ESTIMATING CONTINGENCY       15%       74,700         TIGHT SECURITY CONDITIONS PREMIUM       5%       28,633         TOTAL SITEOWRK COST @ BID TODAY       \$601,393         TOTAL SUEDWICK COST @ BID TODAY       \$777.64         EXCLUSIONS:       Permits       Construction Management Fees         Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations         Escalation       SF Gross Square Feet       CY Cubic Yard         Legends       GSF Gross Square Feet       CY Cubic Yard         FPA Foot Print Area       SY Square Yard <t< td=""><td>TIGHT SECURITY CONDITIONS PREMIUM       5%       312         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$6,566         SITEWORK:       332         G20       SITE IMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       30         TOTAL SITEWORK DIRECT COST       412         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONDITIONS INCL SITE OVERHEAD       5%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28         TOTAL SITEWORK COST @ BID TODAY       \$601         TOTAL BUILDING &amp; SITEWORK COST @ BID TODAY       \$777.64       \$7,167         EXCLUSIONS:       Permits       Construction Management Fees</td><td>5,669</td></t<>	TIGHT SECURITY CONDITIONS PREMIUM       5%       312         TOTAL BUILDING COST @ BID TODAY       9,217       SF       \$712.39       \$6,566         SITEWORK:       332         G20       SITE IMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       30         TOTAL SITEWORK DIRECT COST       412         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONDITIONS INCL SITE OVERHEAD       5%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28         TOTAL SITEWORK COST @ BID TODAY       \$601         TOTAL BUILDING & SITEWORK COST @ BID TODAY       \$777.64       \$7,167         EXCLUSIONS:       Permits       Construction Management Fees	5,669
TOTAL BUILDING COST @ BID TODAY       9,217 SF       \$712.39       \$6,566,13         SITEWORK:         F20       BUILDING DEMOLITION & MISC SITE WORK       332,46         G20       SITE IMPROVEMENTS       Minor work - Allow       30,00         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50,00         TOTAL SITEWORK DIRECT COST       412,46         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61,870         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       23,711         DESIGN/ESTIMATING CONTINGENCY       15%       74,700         TIGHT SECURITY CONDITIONS PREMIUM       5%       28,633         TOTAL SITEOWRK COST @ BID TODAY       \$601,399         TOTAL BUILDING & SITEWORK COST @ BID TODAY         ST77.64       \$7,167,500         EXCLUSIONS:         Permits       Construction Management Fees         Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations         Escalation       SF Foot Print Area         UFA Upper Floor Area       ACR Acre         RA Roof Area       EA Each         VMA Externation       EA Each         VMA Externa       EA Each	TOTAL BUILDING COST @ BID TODAY       9,217 SF       \$712.39       \$6,566         SITEWORK:       332         G20       SITE IMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412         GENERAL CONDITIONS INCL SITE OVERHEAD       15% 61         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5% 23         DESIGN/ESTIMATING CONTINGENCY       15% 74         TIGHT SECURITY CONDITIONS PREMIUM       5% 28         TOTAL SITEOWRK COST @ BID TODAY       \$601         TOTAL BUILDING & SITEWORK COST @ BID TODAY       \$777.64         EXCLUSIONS:       Construction Management Fees	2,673
SITEWORK:       332,46         F20       BUILDING DEMOLITION & MISC SITE WORK       332,46         G20       SITE IMPROVEMENTS       Minor work - Allow       30,00         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       30,00         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       30,00         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       30,00         GENERAL CONTRACTORS OH&P, B&O Tax, Insurance       5%       23,711         DESIGN/ESTIMATING CONTINGENCY       15%       74,700         TIGHT SECURITY CONDITIONS PREMIUM       5%       28,633         TOTAL SITEOWRK COST @ BID TODAY       \$777.64       \$7,167,500         EXCLUSIONS:       Permits       Construction Management Fees         Furnishings/Equip Not Listed       Traffic Control       A/E Fees         Foot Print Area       SY Square Yard       UFA Upper Floor Area         UFA Upper Floor Area       ACR Are       RA Roof Area         WIM Extreme Marker       FOR Acre       FA Foot Print Area         VIM Extreme Marker       FOR Acre       FOR Acre	SITEWORK:       332         G20       SITE IMPROVEMENTS       Minor work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28         TOTAL SITEOWRK COST @ BID TODAY       \$601         TOTAL BUILDING & SITEWORK COST @ BID TODAY       \$777.64       \$7,167         EXCLUSIONS:       Permits       Construction Management Fees	6,134
G20     SITE CIVIL / MECHANICAL UTILITIES     Minor work - Allow     30,000       G30     SITE CIVIL / MECHANICAL UTILITIES     Minor work - Allow     50,000       TOTAL SITEWORK DIRECT COST     412,46-       GENERAL CONDITIONS INCL SITE OVERHEAD     15%     61,87'       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%     23,71'       DESIGN/ESTIMATING CONTINGENCY     15%     74,700       TIGHT SECURITY CONDITIONS PREMIUM     5%     28,633       TOTAL SITEOWRK COST @ BID TODAY     \$601,392       FOTAL BUILDING & SITEWORK COST @ BID TODAY       ST77.64       \$777	G20       SITE IMPROVEMENTS       Minor Work - Allow       30         G30       SITE CIVIL / MECHANICAL UTILITIES       Minor work - Allow       50         TOTAL SITEWORK DIRECT COST       412         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28         TOTAL SITEOWRK COST @ BID TODAY       \$601         TOTAL BUILDING & SITEWORK COST @ BID TODAY         ST777.64         Fermits	2,464
US00     Sinc Civit / Michael On Entress     Minion Work - Allow     30,000       TOTAL SITEWORK DIRECT COST     412,46-       GENERAL CONDITIONS INCL SITE OVERHEAD     15%     61,87/       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%     23,71:       DESIGN/ESTIMATING CONTINGENCY     15%     74,70/       TIGHT SECURITY CONDITIONS PREMIUM     5%     28,631       TOTAL SUTEOWRK COST @ BID TODAY     \$777.64     \$7,167,500       EXCLUSIONS:       Permits     Construction Management Fees       Furnishings/Equip Not Listed     Traffic Control       A/E Fees     Artwork/Installations       Escalation     SY Square Yard       UFA Upper Floor Area     ACR Acre       RA Roof Area     EA Each       YMA Exterior woll Area     CP Dati	OSOU SITE CIVIE / MECHANICAL OTIETILES       Minici work - Anow       30         TOTAL SITE WORK DIRECT COST       412         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONDITIONS INCL SITE OVERHEAD       15%       61         GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       23         DESIGN/ESTIMATING CONTINGENCY       15%       74         TIGHT SECURITY CONDITIONS PREMIUM       5%       28         TOTAL SITEOWRK COST @ BID TODAY       \$777.64       \$777.64       \$777.64       \$777.64         EXCLUSIONS:         Permits       Construction Management Fees	
GENERAL CONDITIONS INCL SITE OVERHEAD     15%     61,87/       GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance     5%     23,71:       DESIGN/ESTIMATING CONTINGENCY     15%     74,70/       TIGHT SECURITY CONDITIONS PREMIUM     5%     28,63/       TOTAL SITEOWRK COST @ BID TODAY     \$601,39/       FORTAL SITEWORK COST @ BID TODAY       \$777.64   <	GENERAL CONDITIONS INCL SITE OVERHEAD 15% 61 GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance 5% 23 DESIGN/ESTIMATING CONTINGENCY 15% 74 TIGHT SECURITY CONDITIONS PREMIUM 5% 28 TOTAL SITEOWRK COST @ BID TODAY \$601 TOTAL BUILDING & SITEWORK COST @ BID TODAY \$777.64 \$7,167 EXCLUSIONS: Permits Construction Management Fees	2 464
GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance       5%       23,71         DESIGN/ESTIMATING CONTINGENCY       15%       74,70         TIGHT SECURITY CONDITIONS PREMIUM       5%       28,63         TOTAL SITEOWRK COST @ BID TODAY       \$601,39         FOTAL BUILDING & SITEWORK COST @ BID TODAY         STOTAL BUILDING & SITEWORK COST @ BID TODAY         FURISHINGS/Equip Not Listed         Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations         Escalation       SFPA Foot Print Area         UFA Upper Floor Area       ACR Acre         RA Roof Area       EA Each         YWA Exterior well Area       DP Drin	GENERAL CONTRACTOR'S OH&P, B&O Tax, Insurance 5% 23 DESIGN/ESTIMATING CONTINGENCY 15% 74 TIGHT SECURITY CONDITIONS PREMIUM 5% 28 TOTAL SITEOWRK COST @ BID TODAY \$601 TOTAL BUILDING & SITEWORK COST @ BID TODAY \$777.64 \$7,167 EXCLUSIONS: Permits Construction Management Fees	1 870
DESIGN/ESTIMATING CONTINGENCY       15%       74,70         TIGHT SECURITY CONDITIONS PREMIUM       5%       28,63         TOTAL SITEOWRK COST @ BID TODAY       \$601,39         TOTAL SITEOWRK COST @ BID TODAY         ST77.64       \$7,167,500         EXCLUSIONS:         Permits       Construction Management Fees         Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations         Escalation       SY Square Yard         UFA Upper Floor Area       ACR Acre         RA Roof Area       EA         WMA Exterior woll Area       DR Srive	DESIGN/ESTIMATING CONTINGENCY 15% 74 TIGHT SECURITY CONDITIONS PREMIUM 5% 28 TOTAL SITEOWRK COST @ BID TODAY \$601 TOTAL BUILDING & SITEWORK COST @ BID TODAY \$777.64 \$7,167 EXCLUSIONS: Permits Construction Management Fees	3.717
TIGHT SECURITY CONDITIONS PREMIUM       5%       28,634         TOTAL SITEOWRK COST @ BID TODAY       \$601,394         TOTAL BUILDING & SITEWORK COST @ BID TODAY       \$777.64         EXCLUSIONS:       Permits       Construction Management Fees         Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations         Escalation       SSF Gross Square Feet         Legends       GSF Gross Square Feet         CY Cubic Yard       FPA Foot Print Area         UFA Upper Floor Area       ACR Acre         RA Roof Area       EA Each         YWA Exteriors well Acco       PD Pair	TIGHT SECURITY CONDITIONS PREMIUM       5%       28         TOTAL SITEOWRK COST @ BID TODAY       \$601         TOTAL BUILDING & SITEWORK COST @ BID TODAY       \$777.64       \$7,167         EXCLUSIONS:       Permits       Construction Management Fees	4.708
TOTAL SITEOWRK COST @ BID TODAY       \$601,391         TOTAL BUILDING & SITEWORK COST @ BID TODAY       \$777.64         EXCLUSIONS:       Permits       Construction Management Fees         Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations         Escalation       SSF Gross Square Feet         CY Cubic Yard       FPA Foot Print Area         UFA Upper Floor Area       ACR Acre         RA Roof Area       EA Each         XWA Exteriors well Acro       PD Pair	TOTAL SITEOWRK COST @ BID TODAY \$601 TOTAL BUILDING & SITEWORK COST @ BID TODAY \$777.64 \$7,167 EXCLUSIONS: Permits Construction Management Fees	8.638
TOTAL BUILDING & SITEWORK COST @ BID TODAY       \$777.64       \$7,167,500         EXCLUSIONS:       Permits       Construction Management Fees       Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations       Escalation       Escalation       Escalation         Legends       GSF Gross Square Feet       CY Cubic Yard       FPA Foot Print Area       SY Square Yard         UFA Upper Floor Area       ACR Acre       RA Roof Area       EA Each       EXECUTE Control	TOTAL BUILDING & SITEWORK COST @ BID TODAY \$777.64 \$7,167 EXCLUSIONS: Permits Construction Management Fees	0,000
TOTAL BUILDING & SITEWORK COST @ BID TODAY       \$777.64       \$7,167,504         EXCLUSIONS:         Permits       Construction Management Fees         Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations         Escalation       SF Gross Square Feet       CY Cubic Yard         FPA Foot Print Area       SY Square Yard         UFA Upper Floor Area       ACR Acre         RA Roof Area       EA Each         WMA Exterior woll Acro       PD Pair	TOTAL BUILDING & SITEWORK COST @ BID TODAY \$777.64 \$7,167 EXCLUSIONS: Permits Construction Management Fees	1.395
EXCLUSIONS:       Permits       Construction Management Fees         Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations         Escalation       Second Print Area         Legends       GSF Gross Square Feet       CY Cubic Yard         FPA Foot Print Area       SY Square Yard         UFA Upper Floor Area       ACR Acre         RA Roof Area       EA Each         YWA Exterior woll Area       PD Pair	EXCLUSIONS: Permits Construction Management Fees	1,395
Permits       Construction Management Fees         Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations         Escalation       SSF Gross Square Feet         CY Cubic Yard       FPA Foot Print Area         UFA Upper Floor Area       ACR Acre         RA Roof Area       EA Each         YWA Extrainer woll Area       SP Dair	Permits Construction Management Fees	1,395 7,500
Furnishings/Equip Not Listed       Traffic Control         A/E Fees       Artwork/Installations         Escalation       Escalation         Legends       GSF Gross Square Feet       CY Cubic Yard         FPA Foot Print Area       SY Square Yard         UFA Upper Floor Area       ACR Acre         RA Roof Area       EA Each         YWA Exterior wall Area       DR Pair		1,395 7,500
A/E Fees     Artwork/Installations       Escalation     CY Cubic Yard       FPA Foot Print Area     SY Square Yard       UFA Upper Floor Area     ACR Acre       RA Roof Area     EA Each       YWA Exterior woll Area     DR Pair	Eurnishinge/Equip Not Listed Traffic Control	7,500
Legends     GSF Gross Square Feet     CY Cubic Yard       FPA Foot Print Area     SY Square Yard       UFA Upper Floor Area     ACR Acre       RA Roof Area     EA Each	A/F Fees Artwork/Installations	1,395
Legends GSF Gross Square Feet CY Cubic Yard FPA Foot Print Area SY Square Yard UFA Upper Floor Area ACR Acre RA Roof Area EA Each XWA Exterior well Area	Fscalation	1,395
Legends       GSF Gross Square Feet       CY Cubic Yard         FPA Foot Print Area       SY Square Yard         UFA Upper Floor Area       ACR Acre         RA Roof Area       EA Each         YWA Exterior well Area       DD Pair		1,395
FPA Foot Print Area     SY Square Yard       UFA Upper Floor Area     ACR Acre       RA Roof Area     EA Each	Legends GSF Gross Square Feet CY Cubic Yard	1,395
UFA Upper Floor Area ACR Acre RA Roof Area EA Each	FPA Foot Print Area SY Square Yard	1,395
RA Roof Area EA Each	UFA Upper Floor Area ACR Acre	1,395
	RA Roof Area EA Each	1,395
	XWA Exterior wall Area PR Pair	1,395
SF Square feet LS Lump sum	SF Square feet LS Lump sum	1,395

LBS pounds

LF Lineal Feet

Project: WCCW - ELDER CARE FACILITY, New Construction

Location Gig Harbor, WA

Bldg (SF) 9,217 SF

Date May 22, 2023

Phase: Feasibility Study Estimate

ITEM	DESCRIPTION	QUANTITY UNIT	UNIT COST	TOTAL	\$/SF
A10	FOUNDATIONS				
	2.5' Wide strip footing w/ 3' H stem wall - perimeter wall	620 LF	275.00	170,500	
	1.5' Wide strip footing w/ 3' H stem wall - Interior load bearing	609 LF	240.00	146,160	
	1.5' Wide strip footing - non-load bearing	340 LF	95.00	32,300	
	Conc, forms & reinf, Excavate/trenching, native backfill	Included above			
	Waterproofing exterior face of perimeter footing	1,860 SF	2.35	4,371	
	Footing drainage with gravel around	620 LF	28.00	17,360	
A10	TOTAL FOUNDATIONS	9,217 SF		370,691	40.22
A30	SLAB-ON-GRADE				
	4" thick conc slab-on-grade (Basment & 1st Floor Level):	9,217 SF	15.50	142,826	
	Fine grade/compact subgrade below slab	included above			
	Gravel fill - 6" thk total	included above			
	Slab reinf - WWF	included above			
	Vapor barrier - 15 mil polyethylene sheathing	included above			
	Trowel, cure & finish slab on grade	included above			
	2" R-10 rigid insul at slab perimeter	included above			
	Construction & control joints	included above			
A30	TOTAL SLAB-ON-GRADE	9,217 SF		142,826	15.50
B20	ROOF CONSTRUCTION				
	8" Thk hollow core planks, incl Delivery & Erection	6.737 SF	15.50	104,424	
	12.5" Thk hollow core planks, incl Delivery & Erection	2.658 SF	16.50	43.857	
	2-1/2" thick normal conc topping w/ WWF reinf, trowel & finish slab	9.395 SF	10.67	100.213	
	Cast in Place Concrete Closure	203 SF	42.32	8.591	
	Misc lintel beam supports	200 LF	50.00	10.000	
B20	TOTAL ROOF CONSTRUCTION	9,217 RA		257,085	27.89
B30	EXTERIOR CLOSURE				
	8" CMU wall, solid grout, reinf	4,647 SF	27.00	125,469	
	10" CMU wall, solid grout, reinf	2,173 SF	28.00	60,844	
	Brick veneer	6,820 SF	38.00	259,160	
	Liquid applied weather resistant barrier	6,820 SF	1.50	10,230	
	Furring, 4" R19 batt insul VB and GWB to exterior perimeter wall	6,820 SF	17.85	121,737	
	8" CMU Parapet incl brick veneer, 3.5' high	2,170 SF	65.00	141,050	
	4' x 5' - Dayroom windows	7 EA	2,700.00	18,900	
	4' x 5' - Hardened Cell	42 EA	3,150.00	132,300	
	HM metal door at entry vestibule door	2 EA	8,000.00	16,000	
	HM metal door w/ side glass wall at East & West Entry	2 EA	13,000.00	26,000	
B30	TOTAL EXTERIOR CLOSURE	8,990 XWA		911,690	101.41
B40	ROOFING				
	PVC fully adhered sheet memb roofing, VB & coverboard	9,217 SF	13.50	124,430	
	Extend roofing to the parapet (vertical side)	2170 SF	10.00	21,700	
	R-45 Rigid insulation over conc plank/conc roof	9.217 SF	10.80	99.544	
	Misc flashing - allow	9.217 SF	3.50	32,260	
	Parapet metal coping	620 I F	28.00	17 360	
	Soalante/coulking/fire stanning allow	110	12 500 00	12 500	
D 40		0.047 DA	12,000.00	207 700	22.22
B40	TUTAL ROUFING	9,217 KA		307,793	33.39

Estimate Detail: SC	H-E
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ITEM	DESCRIPTION	QUANTITY UNIT	UNIT COST	TOTAL	\$/SF
C10	INTERIOR CONSTRUCTION: Partitions, doors, relights, special	ties & casework			
	8" CMU walls - Solid grout LB wall	8,382 SF	27.00	226,314	
	10" CMU walls - solid grout LB walls	1,523 SF	28.00	42,644	
	Interior relite 8' high - dayroom	72 SF	125.00	9,000	
	SCW Interior door, HM frame & hw to support rooms	13 EA	3,600.00	46,800	
	HD Interior metal door, HM frame & hw to cell rooms	22 EA	4,200.00	92,400	
	Add for laminated glass vision panel to interior doors	35 EA	800.00	28,000	
	Add for door closers	16 EA	450.00	7,200	
	Toilet partitions & doors - Reg	2 EA	2,000.00	4,000	
	Toilet partitions & doors - ADA	1 EA	2,500.00	2,500	
	Toilet specialties to common bathrooms	5 SETS	2,500.00	12,500	
	Shower specialties to common bathrooms	4 SETS	2,000.00	8,000	
	Toilet specialties to cell rooms	22 SETS	1,500.00	33,000	
	Nurses' station/counter	42 LF	600.00	25,200	
	Vanity cabinets with solid surface counter at bathrooms	16 LF	680.00	10,880	
	Base cab with solid counter tops at staff break room	6 LF	680.00	4,080	
	Upper cab at staff break room	9 LF	250.00	2,250	
C10	TOTAL INT PARTITIONS, DOORS, RELIGHTS & CASEWORK	9,217 GSF		554,768	60.19
C30					
000	Luxury vinyl flooring incl RB base	7.946 SE	18 00	143 026	
	CT to shower room floor incl CT base	398 SF	36.00	14.328	
	CT to shower room wall - 8' high	832 SF	28.00	23 296	
	Vinvl wainscot to hallway - 4' high	2 000 SF	12 00	20,200	
	GWB ceilings (impact resistant) incl framing	9 217 SF	15.00	138 255	
	Paint new CMI I walls - interior	10 810 SE	1 85	36 649	
	Paint new GWB walls	6.820 SF	1.00	12 617	
	Paint doors & frames	35 LVS	150.00	5 250	
C30	TOTAL INTERIOR FINISHES	9,217 GSF	100.00	397,421	43.12
D20					
DZU	Plumbing system work incl WC Sink Urinal & nining	0.217 CSE	34.07	315 864	
	Please refer to Mechanical Engineer's report for detail	9,217 001	54.27	515,004	
D20	TOTAL PLUMBING	9,217 GSF		315,864	34.27
D30	HVAC				
	HVAC	9.217 GSF	40.62	374,416	
	Please refer to Mechanical Engineer's report for detail			,	
D30	TOTAL HVAC	9,217 GSF		374,416	40.62
D40	FIRE PROTECTION				
	Fire sprinklering system	NIC	6.00		
D40	TOTAL FIRE PROTECTION	9,217 GSF			
D50	ELECTRICAL				
	Power, Distribution, lighting, switches, TAB & Commissioning	9,217 GSF	64.54	594,827	
	Telecom, Security	9,217 GSF	20.71	190,927	
	Fire alarm	9,217 GSF	7.56	69,670	
	Please refer to Electrical Engineer's report for detail				
D50	TOTAL ELECTRICAL	9,217 GSF		855,424	92.81
		,		, .	

ITEM	DESCRIPTION	QUANTITY UNIT	UNIT COST	TOTAL	\$/SF
E10	EQUIPMENT				
	Kitchen appliances - allow	1 LS	3,000.00	3,000	
	Hoyer lifts	NIC			
E10	TOTAL EQUIPMENT	9,217 GSF		3,000	0.33
E20	FURNISHINGS				
	Entry mat	300 SF	20.00	6,000	
	Window blinds	980 SF	6.50	6,370	
E20	TOTAL FURNISHINGS	9,217 GSF		12,370	1.34
		TOTAL BUILDING	DIRECT COST	4,508,347	489.13
	SITEWORK				
F20	BUILDING DEMOLITION & SITE PREPARATION				
	Demo dispose exist building - incl basement & 1st Floor	107,370 CF	0.85	91,265	
	Demo footing of the existing building	7,537 SF	5.00	37,685	
	Demo slab on grade of the existing building	7,537 LF	2.50	18,843	
	Load haul & dispose debris	349 CY	100.00	34,894	
	Asbestos abatement & disposal:				
	Asbestos containing caulk around the door frmaes	39 LF	5.00	195	
	Mudded pipe joints containing asbestos	270 LF	5.00	1,350	
	Floor tile mastic containing materials	2,000 SF	5.00	10,000	
	Vinyl asbestos tile	8,000 SF	5.00	40,000	
	Silver paint on roof containing asbestos	10,000 SF	3.50	35,000	
	Light ballasts containing PCB's Site:	96 EA	25.00	2,400	
	Clear & grub - allow	1.00 LS	2,500.00	2,500	
	structural fill - to the footprint of the new building	1,185 CY	45.00	53,333	
	Sedimentation, Construction Entrance & Erosion control	1 LS	5,000.00	5,000	
F20	TOTAL SITE PREPARATION			332,464	7.43
G20	SITE IMPROVEMENTS				
	Misc patch & Repair on conc sidewalk- allow	1 LS	30,000.00	30,000	
G20	TOTAL SITE IMPROVEMENTS			30,000	0.67
G30	SITE CIVIL /MECHANICAL /ELECTRICAL UTILITIES				
	Incidental works on utilities 5' away from the building - allow	1 LS	50,000.00	50,000	
G30	TOTAL SITE CIVIL /MECHANICAL /ELECTRICAL UTILITIES			50,000	1.79

TOTAL SITEWORK DIRECT COST

412,464

9.65



WCCW Feasibility Study to Convert Building F into an Elder Care Facility or Build a New Elder Facility

# APPENDIX C – ARCHITECTURAL & STRUCTURAL DRAWING REMODEL EXISTING BUILDING 'F'

# WASHINGTON CORRECTION CENTER FOR WOMEN - ASSISTED LIVING & SKILLED NURSING FACILITY







◯ Keynotes







Legend:

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# WASHINGTON CORRECTION CENTER FOR WOMEN - ASSISTED LIVING & SKILLED NURSING FACILITY





SCALE: 1/8" = 1'-0"

C Keynotes









Prelim. Design 05/24/23

EXISTING WALL TO REMAIN

DOOR EXISTING

NEW DOOR AND

to remain

Closing Date

ALL RIGHTS RESERVED THESE DRAWINGS ARE THE PROPERTY OF MSGS ARCHITECTS AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER, WITHOUT PRIOR WRITTEN PERMISSION.















Prelim. Design 04/27/23

EXISTING WALL TC

EXISTING DOOR

NEW DOOR AND

to remain

REMAIN

Closing Date

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# WASHINGTON CORRECTION CENTER FOR WOMEN - ASSISTED LIVING & SKILLED NURSING FACILITY

**PROPOSED ROOF PLAN - SCHEME D** 

A2.10 1/8'' = 1'-0











Prelim. Design 04/27/23

EXISTING WALL TO REMAIN

EXISTING DOOR TO REMAIN

NEW DOOR AND

Closing Date

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WCCW Feasibility Study to Convert Building F into an Elder Care Facility or Build a New Elder Facility

# APPENDIX D – ARCHITECTURAL & STRUCTURAL DRAWING BUILD NEW ELDER CARE FACILITY



WASHINGTON CORRECTION CENTER FOR WOMEN - ASSISTED LIVING & SKILLED NURSING FACILITY

Legend:















WCCW Study for Road, Gig Ha E PROJECT Na fo acich STATE ility Fea 9601



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![](_page_28_Figure_7.jpeg)

![](_page_28_Figure_8.jpeg)

![](_page_28_Picture_9.jpeg)

![](_page_28_Picture_10.jpeg)

![](_page_28_Picture_11.jpeg)

![](_page_28_Picture_12.jpeg)

![](_page_28_Picture_13.jpeg)

WCCW Ţ Road, Gig E PROJECT St ility STA Fea 9601

![](_page_28_Picture_15.jpeg)

Prelim. Design 04/27/23

evision

Closing Date

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![](_page_29_Picture_0.jpeg)

WCCW Feasibility Study to Convert Building F into an Elder Care Facility or Build a New Elder Facility

# **APPENDIX E –** STRUCTURAL, MECHANICAL & ELECTRICAL DESIGN NARRATIVE

#### STRUCTURAL DESIGN NARRATIVE - AHBL:

![](_page_30_Picture_1.jpeg)

**Structural Narrative** 

## WCCW Elder Care Facility

**Project Principal** 

Andrew D. McEachern, P.E., S.E.

#### Design Criteria Design Codes and Standards

<u>Codes and Standards</u>: Structural design and construction shall be in accordance with the applicable sections of the following codes and standards as adopted and amended by the local building authority: International Building Code, 2018 Edition.

#### Structural Design Criteria:

Live Load Criteria:					
	Roof (Min Blanket Snow):			25 psf	
	Slab on Grade:			125 psf	
	Concrete Deck at Basement	: Lid		125 psf	
Wind Load Criteria:					
	Basic Wind Speed:			104 mph	
	Risk Category:			III	
	Wind Exposure:			В	
Seismic Criteria:					
	Risk Category:			III	
	Seismic Importance Factor:			1.25	
	S <sub>s</sub> = 1.507	$S_1$	=	0.527	
	S <sub>ds</sub> = 1.205	$S_{\text{d1}}$	=	N/A	
	Site Class:			D – default (assumed)	
	Seismic Design Category:			D	

Soil Criteria:

Soil Bearing Capacity: 1,500 psf minimum (assumed) allow 33% increase for loads from wind or seismic origin.

#### **Project Description**

The structural scope of work for this project involves either an addition to an existing one-story detention facility (with a partial basement), or a completely new one-story detention facility. It is the intention of the structural design to satisfy the force levels of the IBC 2018. The structural system for either building option will include the following:

#### **Roof Framing**

- Due to the security requirements for the facility, we have assumed that the new roof structure will closely match the construction of the existing facility. Precast hollow core roof planks will span between exterior loadbearing wall elements. The roof planks will be topped with a 2-1/2" thick reinforced topping slab to act as a horizontal diaphragm for resisting lateral forces.
- Reinforced concrete closure slabs will be used at discrete areas of the roof as needed to accommodate short or irregular slab spans as well as vertical penetrations.

#### **Alternate Roof Framing**

• If security considerations allow for a steel roof system, it is possible to frame the new roof with open web steel joists. This alternate roof system will consist of light gage metal deck spanning between open web steel joists (or wide flange joists). The joists will be able to span the full width of the building, and bear on the exterior load-bearing CMU walls.

#### **Exterior Walls**

• The exterior walls for the facility will utilize reinforced concrete masonry (CMU) walls. For security requirements, we anticipate that the walls will be grouted solid. These walls will be designed to support the roof loads above, and will also act as shearwalls to resist lateral loads from the roof structure.

#### **Interior Walls**

- A majority of the interior wall framing will be considered non-structural wall elements. The typical roof framing is anticipated to span between exterior load-bearing walls. The interior walls may consist of reinforced CMU walls where necessary for security requirements, or light gage steel studs walls where appropriate. These walls will be designed to allow vertical and lateral movement of the roof structure without delivering loads into the interior partitions (i.e. slip tracks or equivalent).
- At the Building Lobby, several of the interior walls will be used to support the roof structure. These bearing walls will be reinforced CMU framing similar to the exterior wall systems.

#### Foundations

- Based upon the original as-built drawings for the existing building, we have assumed that the new structures will be supported on conventional shallow foundations. Conventional strip footings will be located beneath all loadbearing wall elements. Discrete spread footings will be provided at any column locations.
- The interior floor of the building will consist of a conventional cast in place concrete slab on grade.
- At interior non-loadbearing CMU walls, a thickened slab strip footing will be provided integral with the interior slab on grade.

#### **Basement Construction**

• For the addition option, a narrow basement addition is indicated running down the central hallway of the building. The new basement walls will consist of conventional

cast in place concrete retaining walls. The retaining walls will be supported on continuous strip footings.

- The basement floor will consist of a cast in place concrete slab on grade.
- At the main floor level, the lid of the basement will be constructed with an elevated concrete slab. The slab construction will consist of a reinforced concrete topping slab placed over a light gage form deck.

#### MECHANICAL & ELECTRICAL DESIGN NARRATIVE - P2S:

![](_page_32_Picture_4.jpeg)

### 1.0 INTRODUCTION

This project involves the renovation of the Washington Correctional Center for Women. Currently the building is a single story 7,426 square foot facility located in Gig Harbor, WA used to house inmates. There are two proposed alternatives for the renovation of the facility:

- Renovation Scheme D Renovation Scheme D involves demolishing the all existing mechanical, electrical, and plumbing systems located in the facility. The existing structure is to remain. A 1,468 square foot addition shall be provided on the west side of the building and a 193 square foot addition shall be provided on the north side of the building. The resulting building shall be a total of 9,087 square feet. Mechanical, electrical, and plumbing systems shall be provided to serve the renovated building.
- **Renovation Scheme E** Renovation Scheme E involves the complete demolition of the existing facility including the mechanical, electrical, and plumbing systems in addition the demolishing the existing structure. The new facility shall be a 9,217 square feet and mechanical, electrical, and plumbing systems shall be provided to serve provided spaces.

#### 1.1 Codes and Standards

The following codes and standards apply to this project:

- International Building Code (IBC)—2018
- International Mechanical Code (IMC)—2018
- Uniform Plumbing Code (UPC)—2018
- Washington State Energy Code (IECC)(WAC 51-11C)-2018
- International Fire Code (IFC)—2018
- ADA Standards for Accessible Design (ADA)—2010
- ANSI/ASHRAE Standard 55, Thermal Environmental Conditions for Human Occupancy (ASHRAE) —2020
- ANSI/ASHRAE Standard 62.1, Ventilation for Acceptable Indoor Air Quality (ASHRAE)—2019
- ANSI/ASHRAE 90.1, Standard for Energy Conservation in New Building Design (AHSRAE)-2019
- NFPA 101, *Life Safety Code* (NFPA)—2018
- NFPA 13, Fire Sprinkler Systems—2019

### **MECHANICAL DESIGN**

#### 1.2 General

Mechanical work on this project will depend on which of two alternatives are chosen for the building's overall renovation strategy.

- **Renovation Scheme D** Variable air volume (VAV) system. Split system heat pump air handling unit located in basement. Condensing unit located on the exterior of the building.
- **Renovation Scheme E** Variable air volume (VAV) system. Packaged heat pump air handling unit located on roof.

Depending on the system chosen, specific rooms requiring 24/7 cooling may be provided with dedicated air conditioning systems. This will allow the building's overall HVAC system to enter "unoccupied" setback mode and reduce energy usage.

#### 1.2.1 Design Conditions

#### **Outdoor Spaces**

Source: 2017 ASHRAE Fundamentals Weather Data for Tacoma Narrows Airport (WMO#: 727938),.

- Summer (cooling): 0.4% frequency of occurrence for dry-bulb temperature and mean coincident wet-bulb temperature. 83.8 degrees F DB and 64.3 degrees F WB.
- Winter (heating): 99.6% frequency for mean coincident dry-bulb temperature. 27.7 degrees F.

#### **Indoor Spaces**

- Offices, breakrooms, living spaces, work areas, lobbies, and corridors: 75 degrees F, 50% RH cooling and 68°F, 30% RH heating.
- Electrical equipment rooms: 75 degrees F, 50% RH cooling.
- Mechanical spaces: 80 degrees F cooling and 55 degrees F heating.

Note: relative humidity (RH) is noted above for criteria; there is no planned humidity control.

#### **1.3 Proposed HVAC Alternatives**

The following sections describe the proposed HVAC systems for the two renovation alternatives.

#### 1.3.1 Renovation Scheme D

A variable air volume (VAV) system shall be provided to serve the facility. The system shall consist of a air-handling unit which shall be located in the basement mechanical room. The air handling unit shall be provided with a split system heat pump with the refrigerant coil located in the unit and a condensing unit located on the exterior of the building.

Supply and return ductwork shall be routed from the air-handling unit through the basement crawl space to serve each of the rooms in the facility. Supply air shall branch off of the main and shall be

connected to a low wall supply grille located in each of the spaces. Provided low wall supply grilles shall be tamper-proof. A VAV box shall be provided for each of the supply air branches. Return air grilles shall be provided in the corridors. Return air shall transfer from each room and shall accumulate in the corridor to be returned to the air handling unit.

General building exhaust will be provided by rooftop upblast exhaust fans. All provided exhaust grilles shall be tamper-proof. All equipment requiring electrical connections shall be 208V.

#### 1.3.2 Renovation Scheme E

A variable air volume (VAV) system shall be provided to serve the facility. The system shall consist of a packaged heat pump air-handling unit which shall be located on the roof of the building.

Supply and return ductwork shall be routed from the air-handling unit through the corridors to serve each of the rooms in the facility. Supply air shall branch off of the main and shall be connected to a side wall supply grille located in each of the spaces. A VAV box shall be provided for each of the supply air branches. Return air grilles shall be provided in the corridors. Return air shall transfer from each room and shall accumulate in the corridor to be returned to the air handling unit.

General building exhaust will be provided by rooftop upblast exhaust fans. All provided exhaust grilles shall be tamper-proof. All equipment requiring electrical connections shall be 208V.

#### 1.3.3 Control System

A Direct Digital Control (DDC) system will be provided for the central Building Automation System (BAS). The DDC system will control and monitor the HVAC systems serving the building. Additionally, select plumbing equipment (e.g., water heater, circulation pump, etc.) will also be controlled and monitored.

## 2.0 PLUMBING DESIGN

#### 2.1 General

The plumbing design will conform to the requirements of the 2015 International Plumbing Code. For both Renovation Scheme D and Renovation Scheme E a complete plumbing system shall be provided for the facility consisting of plumbing fixtures, domestic cold water piping, domestic hot water piping, heating water equipment, sanitary waste piping and equipment, vent piping, and associated appurtenances.

#### 2.2 Domestic Hot and Cold Water Systems

The domestic water supply water pressure should be verified. A reduced pressure backflow assembly (RPBA) device will be installed at the point of entry for cross-contamination control. Domestic hot and cold water will be piped throughout the building to all plumbing fixtures as required. The provided fixtures shall include water closets, lavatories, showers, and breakroom sinks. The building shall be provided with an electric, storage-type water heater to provide domestic hot water for the building. The

water heater shall be located in the building's mechanical room. The facility shall also be provided with a hot water recirculation system. The system shall include an in-line hot water circulation pump a shall have piping routed to the furthest point in the domestic hot water system to continuously circulate hot water through the building.

#### 2.3 Sanitary Waste and Vent Systems

A complete sanitary waste and vent system shall serve the facility. Waste piping shall be routed from each of the provided plumbing fixtures and shall be connected to an underground sanitary sewer main. The provide sanitary sewer main shall be connected to the existing city sewer main. Vent piping shall be provided for each of the plumbing fixtures. Fixtures shall vent to a common vent system which shall be routed throughout the building and shall terminate above the roof.

Trap primers will be provided on all floor drains to prevent P-traps from drying up and sewer gases from entering the building.

#### 2.4 Plumbing Fixtures

The provided plumbing fixtures shall be low flow. All water closets and lavatories located in the cells shall be ADA-compliant and shall be ligature resistant and tamper-proof. The showers, water closets, and lavatories located in the comment restroom shall also be ADA-compliant and shall be ligature resistant and tamper-proof.

## 3.0 ELECTRICAL SYSTEM DESIGN

#### 3.1 General

A complete operational electrical system provided will meet all the requirements of the design scope and comply with code requirements. For Renovation Scheme D and E, a complete electrical system will replace the existing obsolete electrical system and consists of new electrical equipment, electrical outlets, interior and exterior light fixtures and controls, and power to HVAC, telecom/security equipment, fire alarm panels, plumbing equipment and other miscellaneous loads. All these systems will be designed to provide the user with maximum flexibility. All equipment that forms part of these systems will be selected for durability and maintenance ease consistent with the current design standards.

#### 3.2 Existing Site Utility Services

The existing incoming power pole utility serves an existing 12.47kV main service distribution switchgear located in remote Building 'D'. Power is distributed from the 12.47kV main service distribution switchgear to 12.47kV distribution switchgear located in Buildings 'B', 'F', 'G' and 'C' via underground conduits and manholes distributed throughout the site. These 12.47kV switchgear serve various buildings on campus via medium voltage transformers. The 12.47kV switchgear located in Building 'B' serves the project scope Building 'F' electrical loads via a pad mount 12.47kV-480/277V, 3 phase, 4 wire

medium voltage transformer. The main building distribution panelboards and other equipment serving the Building 'F' electrical loads are located in the basement electrical room.

All campus building emergency loads are provided emergency power and normal power via a loop system consisting of a main Automatic Transfer Switch (ATS), selector switches, and 12.47kV-480/277V transformers. Three generators feed all campus loads requiring emergency power. Emergency is provided to Building 'F' via a 100A breaker from a 400A, 480/277V emergency switchboard located in Building 'B'. Building 'B' is fed from Building 'D' which in turn is fed from Building 'E'. Building 'E' is fed from a 500kVA transformer connected to the campus emergency loop system.

### 3.3 New Electrical System Design

#### 3.3.1 Site Distribution System

Electrical Power to remodeled Building 'F' will be provided from an existing 12.47KV switchgear located in Building 'B' via an upsized pad mount medium voltage transformer located outside Building 'F' in a protected fenced enclosure. The location of the new medium voltage transformer would require coordination with Architect and client. New 12.47KV and 600V feeders will be provided in underground conduits between Buildings 'B' and 'F' to serve the Building 'F' electrical distribution system.

#### 3.3.2 Building Electrical System Capacity

The following is the electrical load calculation based on the square footage and the occupancy of the building to be renovated.

Main Service Load Calculation					
Total Area of the Building	9,087 sq ft				
Lighting and Receptacle Load (8W/SF)	73KVA				
Mechanical Load	76.7 KVA				
Total Connected Building Load (with 25% spare capacity)	187.5 KVA, 520 A @208V, 3 ph, 4 W				

#### 3.3.3 New Building Electrical System

Based on the load calculations, a new 800A, 208/120V, 3 phase, 4 wire main switchboard will be provided in the main electrical room in the basement, fed from a new 225kVA, 12.47kV-208/120V, 3 phase, 4 wire pad mount medium voltage transformer located exterior to the Building 'F'. The 800A main switchboard will serve a 100A, 208/120V, 3 phase, 4 wire panel to serve lighting loads, a 100A, 208/120V, 3 phase, 4 wire panel to serve telecom/security loads, a 400A, 208/120V, 3 phase, 4 wire distribution panel for all mechanical loads, two 200A, 208/120V, 3 phase, 4 wire panel to serve receptacles and other miscellaneous loads. 400A, 200A panels and 100A telecom panel will be located in the first-floor electrical room and 100A lighting panel will be located in the basement electrical room.

#### 3.3.4 Emergency System

Emergency power for Building 'F' will be derived from the existing 400A, 480/277V switchboard located in Building 'B'. This would require further coordination with the owner and investigation on existing loads on upstream switchboards and generators. Emergency switchboard in Building 'B' will serve a 225A, 208/120V, 3 phase, 4 wire panel via a 75KVA, 480-208/120V, 3ph, 4 wire dry type transformer to provide power to life safety loads like egress lighting, exit signs, door locks as applicable, and communication/telecom/security systems.

Emergency exit signs will be provided at all exits and emergency egress lighting will be provided along the path of egress. Security exterior lighting will be on emergency power. Power to door locks and telecom/security systems will be provided via Uninterruptible Power Source (UPS) to avoid re-booting of computers and security systems. The run-time of UPS will be decided during the design based on coordination with owner.

The following are the design voltage criteria that will be followed for the building:

- Primary Voltage: 12.47KV, 3 phase, 3 wire
- Secondary voltages, Normal/Emergency: 208Y/120V, 3 phase, 4 wire
- Distribution Voltages: Large motors (3/4 HP & larger)—208V, 3-phase
- Small motors (1/3 HP & smaller): 120V & 208V
- Lighting: LED—120V, 1 phase
- Receptacles, general purpose: 120V, 1 phase
- Receptacles, special purpose: 208V, 1-phase
- HVAC mixing boxes/VAV Boxes: 208V, 1 phase
- Misc. power: 120V and 208V, 1 phase or 3 phase

#### 3.3.5 Electrical Requirements

All exposed electrical, fire alarm, lighting, and telecom devices will be provided with a lockable cover and be tamper-proof.

The electrical design will be based on using the following conduit types:

- Galvanized rigid steel (GRS) conduit in exterior and for work embedded in concrete
- Rigid non-metallic conduit (PVC) for all underground exterior work
- Electrical metallic tubing (EMT) for interior concealed work or above eight feet exposed
- Rigid Metallic Conduits (RGS) for interior exposed work
- Flexible metal conduit for interior work in short lengths (less than 6 feet) for the connection of recessed lighting fixtures, motors, separate building structures, and any vibrating equipment
- Liquid-tight flexible metal conduit wherever moisture may be present.

## 4.0 TELECOMMUNICATION SYSTEM DESIGN

#### 4.1 General

This document serves as the basis of design for the telecommunications system WCCW Building F. The objective is to provide a secure, efficient, and reliable telecommunications infrastructure to support the operational needs of the facility. The design will comply with applicable codes, standards, and guidelines specific to correctional facilities in Washington State.

The telecommunications design for this facility will conform to the following codes and standards -

- 1. National Electrical Code (NEC)
- 2. National Fire Alarm and Signaling Code (NFPA 72)
- 3. Telecommunications Industry Association (TIA) Standards
- 4. Building Industry Consulting Service International (BICSI) Standards
- 5. Federal Communications Commission (FCC) Regulations
- 6. State and Local Building Codes
- 7. Washington State Department of Corrections (DOC) Guidelines

#### 4.2 Design Principles

- Security: The design will prioritize the security of the telecommunications system to prevent unauthorized access, ensure confidentiality, and minimize the risk of tampering or misuse.
- Reliability: The telecommunications system will be designed to ensure continuous operation, minimize downtime, and provide redundancy where necessary.
- Scalability: The design will accommodate future growth and evolving technological requirements of the facility.
- Compliance: All design elements will adhere to relevant codes, standards, regulations, and guidelines established by local authorities, the Washington State Department of Corrections, and all other applicable entities.
- Structured Cabling: The facility will implement a structured cabling system based on TIA-568 standards, including appropriate pathways, spaces, and distribution equipment.
- Fiber Optic Backbone: A fiber optic backbone will be deployed to support high-speed data transmission, ensuring reliable communication between critical areas of the facility.
- Copper Cabling: Copper cabling will be used where necessary for voice and low-speed data connections, following TIA-568 standards.
- Outside Plant Cabling: If required, outside plant cabling will be deployed with appropriate grounding and protection to connect the facility to external telecommunications networks.

#### 4.3 Voice Communications

• Telephone System: A reliable and secure telephone system infrastructure will be implemented, allowing authorized users to make internal and external calls. Call monitoring and recording

capabilities may be required for security purposes. The operating telephone system itself is by the Owner.

• Public Address System: A public address (PA) system will be installed throughout all areas of the facility for announcements, emergency mass notifications, and general communications. This PA system speakers shall interface with the Jail Door Control System (Jail Door Control System design by others)

#### 4.4 Data Communications

- Local Area Network (LAN): A robust and secure LAN will be designed to provide network connectivity within the facility, supporting critical applications and services.
- Wireless Network: A wireless network infrastructure will be established, enabling secure wireless communication for authorized users and devices, while maintaining separation from public networks.
- Internet Connectivity: Secure internet connectivity will be provided, utilizing appropriate firewalls and content filtering mechanisms to restrict unauthorized access and ensure compliance with facility policies.

#### 4.5 Emergency Communications

- Emergency Notification: The telecommunications system will support emergency notification capabilities, including integration with the PA system, to quickly disseminate critical information during emergencies.
- Redundancy and Resilience: Redundant communication paths, backup power supply, and failover mechanisms will be implemented to ensure continuous emergency communication even during power outages or equipment failures.

### 5.0 PHYSICAL SECURITY DESIGN

#### 5.1 Intrusion Detection

- Intrusion detection design shall consist of sensors to detect -
  - Unauthorized portal openings Door / Window Position Sensors
  - Presence of unauthorized personnel in controlled spaces Infrared Motiong Detectors
  - Panic or Duress condition among staff members Panic Button, or "Man Down" system.
- Intrusion sensors in a correctional facility are typically integrated into the Jail Door Control System

#### 5.2 Access Control

For a correctional facility, access control is typically a centralized function of the Jail Door Control System. Door locking mechanisms are typically pneumatic or electro-mechanical, and are typically "at the door" access consists of a key override for the Jail Door Control System.

#### 5.3 Video Surveillance

- Video Surveillance shall be designed as to provide coverage of all areas within the facility.
- The video system shall follow typical design concepts including placement of cameras and streaming video data to a Video Management System (VMS).
- All cameras shall be integrated into the Jail Door Control system for automated display and/or touchscreen camera selection form the Jail Door Control System workstation(s)

### 6.0 LIGHTING DESIGN

Light fixtures will be LED and systems will be selected for efficiency, durability, ease of maintenance, vandal resistance, and provide no hold points. All light fixtures will be provided with local battery packs for continuous lighting back up during the switch over of normal power to generator power.

#### 6.1.1 Light Sources

LED fixtures will meet State of Washington standards and be UL/CSA listed. Light fixtures will be provided with vandal resistant 8/10 gage steel cage with security screws.

#### **Interior Lighting**

Lighting fixtures will be LED, with a rated life of 50,000 hours and 80 CRI minimum. The color temperature will be 3500K.

#### **Exterior Lighting**

LEDs equal to 4000K will be used for wall packs with 70 CRI minimum and full cut-off to prevent light from going up into the sky.

The illumination levels will follow IES recommendations for correctional facilities.

#### 6.1.2 Egress Lighting Design

All emergency light fixtures and exit signs will be served from the emergency generator power. Exit signs will be provided according to the path of egress requirements. All emergency light fixture controls will be wired so that emergency lights will be switched during normal conditions and remain unswitched and full ON during an emergency. For that purpose, UL924 relays will be provided for emergency light fixtures. All exit signs will be connected to an unswitched circuit and remain powered in normal and emergency conditions.

#### 6.1.3 Lighting Control Systems

All lighting controls will be accessible only to building staff. Light fixtures in sleeping areas shall have controls that allow dimming for night and accommodate staff observation needs. All light fixtures shall have master controls and be accessible to staff in an emergency. The lighting control panel will be connected to the BMS or DDC system. All exposed lighting and control devices will be provided with a cover and be tamper-proof. Lighting control panel will be located in the first floor electrical room.

### 7.0 FIRE ALARM SYSTEM

The remodeled building will be provided with a complete manual/addressable fire alarm system with horn strobes. The system will conform to current Building, Fire, and NFPA 72 Codes.

The fire alarm system will be independent with full command and control from the campus command center. This system should report back to an existing main campus Fire Alarm Panel via fiber or copper line to match existing.

The fire alarm system for Building 'F' will include the following:

One remote LCD alphanumeric annunciator at the main building entrance with an eighty-character digital readout indicating which device is in alarm or trouble mode is required. Exact location will be coordinated with the State Fire Marshal.

The Fire Alarm Control Panel (FACP) will be provided with an eighty-character digital readout indicating which device is in alarm or trouble mode. The new building's fire alarm system will use the same fire alarm control panel manufacturer with compatible components and devices similar to other buildings nearby. The fire alarm control panel, power supplies, and accessories will be placed in the first-floor electrical room of the building.

It is required that the following devices be installed per latest WSBC and WSFC codes:

- Monitoring, control, and power: fire alarm control panel, battery backup.
- Initiating devices: manual pull stations, smoke and heat detectors, duct detectors, etc.
- Indicating devices: horn, strobes, etc.
- Modules and relays will be provided for HVAC shutdown on the equipment itself.
- All electrically-operated doors will be interlocked with the fire alarm system. Door locks will not be provided with automatic release during fire alarm event.
- The system will be installed in dedicated and marked conduits (red stripes at each end is required). All fire alarm boxes are required to have red covers. New initiating and indicating devices will be placed throughout the floors to meet current code requirements.
- All fire alarm pull stations will be lockable and be accessible only to building staff per code. All exposed fire alarm devices will be provided with a tamper-proof cover.
- Initiating and notification devices will be provided in non-prison cell spaces per NFPA 72. Prison cell spaces will be provided with smoke detectors with vandal resistant covers.