PORT OF TACOMA

ADMINISTRATION BUILDING ROOF REPLACEMENT PROJECT NO. 101339.04 CONTRACT NO. 071518

PORT COMMISSIONERS:

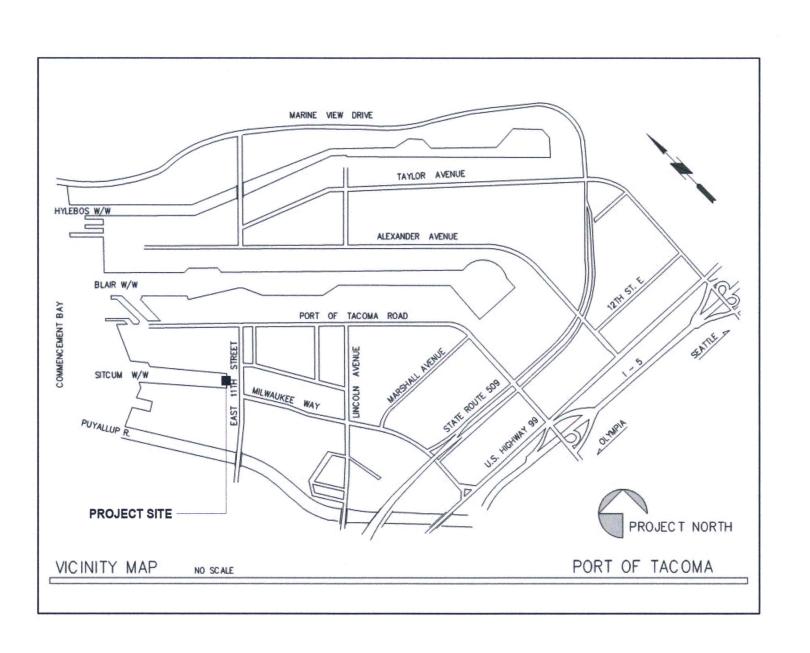
JOHN MCCARTHY
DON MEYER
KRISTEN ANG
RICHARD P. MARZANO
DEANNA KELLER

PORT STAFF:

ERIC JOHNSON Executive Director

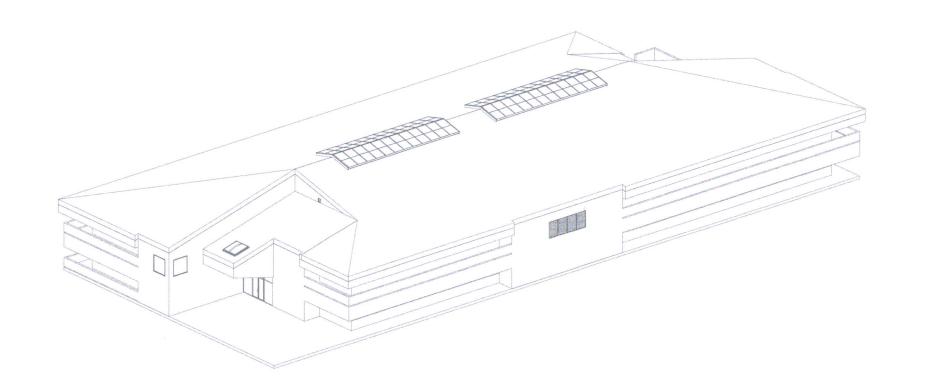
THAIS HOWARD, P.E. Director of Engineering

NORMAN GILBERT, P.E. Project Manager



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Architecture & Planning

011 SW KLICKITAT WAY, STE. 208

:ATTLE, WA 98134 | (206) 631-8442

REVISION:

BY: APP

REGISTERED ARCHITECT ARCHITECT STATE OF WASHINGTON

CHECKED BY DATE

CHECKED BY DATE

RENG. DATE PROJ. ENGR DATE

BY. J.M.

MINISTRATION BUILDING ROOF REPLACEMENT

ROOF REPLAC

COVER SH
WNSHIP: 21
RANGE: 03

6661 G1 0 SHT #1 OF 20 NT/CONS: 071518 1D: 101339.04

ABBREVIATIONS							
A A/E	ARCHITECT/ENGINEER	F FCO	FLOOR CLEANOUT	N N	 NEW	S SAM	SELF-ADHERED MEMBRANE
AB	ANCHOR BOLT	FD	FLOOR DRAIN	NA	NOT APPLICABLE	SB	SPLASH BLOCK
ABV	ABOVE	FF INSUL	FOIL FACED INSULATION	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	SCHED	SCHEDULE
ACC	ACCESSIBLE	FFSAM	FOIL FACED SELF-ADHERED MEMBRANE	NIC	NOT IN CONTRACT	SF	SQUARE FOOT (FEET)
ACS DR	ACCESS DOOR	FIN	FINISH	NO	NUMBER	SFTWD	SOFTWOOD
ACS PNL	ACCESS PANEL	FIN FLR	FINISH FLOOR	NOM	NOMINAL	SHT MTL	SHEET METAL (FLASHING)
ACT	ACOUSTICAL CEILING TILE	FLR	FLOOR	NTS	NOT TO SCALE	SHTHG	SHEATHING
ADA	AMERICANS WITH DISABILITIES ACT	FM	FACTORY MUTUAL FALL PROTECTION ANCHOR	•		SIM SKLT	SIMILAR SKYLIGHT
AFF AHU	ABOVE FINISHED FLOOR AIR HANDLING UNIT	FPA FR	FIRE RESISTANT	O OA	OVERALL	SLNT	SEALANT
AIB	AIR INFILTRATION BARRIER	FRMG	FRAMING	OC	ON CENTER	SPEC	SPECIFICATION
ALT	ALTERNATE	FSTNR	FASTENER	OD	OUTSIDE DIAMETER	SQ	SQUARE
ALUM	ALUMINUM	FT	FEET	OFD	OVERFLOW DRAIN	SQ IN	SQUARE INCH
ANOD	ANODIZED	FTG	FOOTING	OPNG	OPENING	SQ YD	SQUARE YARD
APPROX	APPROXIMATE	FV	FIELD VERIFY	OPP	OPPOSITE	SSMR	STANDING SEAM METAL ROOF
ARCH	ARCHITECT	•		OPQ	OPAQUE	SST	STAINLESS STEEL
ASSY AVG	ASSEMBLY AVERAGE	G GALV	GALVANIZED	OPR	OPERABLE	STD STRUCT	STANDARD STRUCTURAL
AVG	AVERAGE	GALV	GRAB BAR	ORD ORIG	OVERFLOW ROOF DRAIN ORIGINAL	SUB FL	SUBFLOOR
В		GFRG	GLASS-FIBER-REINFORCED GYPSUM	ONIO	ONGIVAL	SV	SHEET VINYL
BD	BOARD	GLZ	GLAZING	Р	*****	SW	SIDEWALK
BLDG	BUILDING	GTR	GUTTER	PAR	PARAPET		
BLKG	BLOCKING	GYP BD	GYPSUM BOARD	PAT	PATTERN	Т	
BOS	BOTTOM OF STEEL		GYPSUM PLASTER	PCT	PERCENT	T&G	TONGUE & GROOVE
BOT BP	BOTTOM BUILDING PAPER	GWB	GYPSUM WALL BOARD	PERF	PERFORATED	TC TD	TERRA COTTA TRENCH DRAIN
BRKT	BRACKET	н		PERIM PH	PERIMETER PHASE	TEMP	TEMPORARY
BTWN	BETWEEN	HDPE	HIGH DENSITY POLYETHYLENE	PL	PROPERTY LINE	TFF	TOP OF FINISH FLOOR
BUR	BUILT-UP ROOFING	HDW	HARDWARE	PL GL	PLATE GLASS	THK	THICKNESS
		HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)	PLAM	PLASTIC LAMINATE	THRU	THROUGH
С		HM	HOLLOW METAL	PLAS	PLASTER	TMPD GL	TEMPERED GLASS
CFLSH	COUNTERFLASHING	HORIZ	HORIZONTAL	PLBG	PLUMBING	TN	TRUE NORTH
CFMF	COLD-FORMED METAL FRAMING	HTSAM	HIGH TEMP SELF-ADHERED MEMBRANE	PLYWD	PLYWOOD	TOF TOM	TOP OF FOOTING TOP OF MASONRY
CIP CJ	CAST-IN-PLACE CONTROL JOINT	1		PMMA PNL	POLYMETHYL METHACRYLATE FLASHING PANEL	TOP	TOP OF MASONRY
CL	CENTER LINE	IBC	INTERNATIONAL BUILDING CODE	PRCST	PRECAST	TOPO	TOPOGRAPHY
CLG	CEILING	INSUL	INSULATION	PREFIN	PREFINISHED	TOS	TOP OF SLAB
CLG HT	CEILING HEIGHT	INT	INTERIOR	PT	PRESSURE TREATED	TOW	TOP OF WALL
CLR	COLOR			PVC	POLYVINYL CHLORIDE	TRANS	TRANSOM
CMU	CONCRETE MASONRY UNIT	K		_		TRTD	TREATED
CO	CLEANOUT	KIT	KITCHEN	Q	OLIABITITY	TYP	TYPICAL
COL	COLUMN CONCRETE	KPL	KICKPLATE	QTY	QUANTITY	U	
CONT	CONTINUOUS	- 1		R		UNO	UNLESS NOTED OTHERWISE
COORD	COORDINATE	LAM	LAMINATE	RB	RESILIENT BASE	0.10	0.11200 110 120 0 11121 11110
CTR	CENTER	LAV	LAVATORY	RBM	REINFORCED BRICK MASONRY	V	
CU FT	CUBIC FEET	LBR	LUMBER	RBR	RUBBER	VAR	VARIES
		LBS	POUND	RC	REINFORCED CONCRETE	VIF	VERIFY IN FIELD
D	DOUBLE	LF	LINEAR FEET (FOOT)	RCP	REFLECTED CEILING PLAN	VTR	VENT THROUGH ROOF
DBL DEMO	DOUBLE DEMOLISH	LIN LT	LINEAR	RD INC	ROOF DRAIN	W	
DET	DETAIL	LVR	LIGHT LOUVER	RDG INS REC	RIGID INSULATION, SOLID RECESSED	W/	 WITH
DIA	DIAMETER	LVIX	LOGVER	REF	REFERENCE	W/O	WITHOUT
DIR	DIRECTION	M		REM	REMOVE	WD	WOOD
DIST	DISTANCE	MATL	MATERIAL	REP	REPAIR	WP	WATERPROOFING
DS	DOWNSPOUT	MAX	MAXIMUM	REPL	REPLACE	WRB	WEATHER RESISTIVE BARRIER
_		MECH	MECHANICAL	REQD	REQUIRED		
E E	EXISTING	MEMB	MEMBRANE	REST	RESTROOM		
EA	EACH	MFR MID	MANUFACTURER MIDDLE	RFG RH	ROOFING ROOF HATCH		
EJ	EXPANSION JOINT	MIN	MINIMUM	RL	ROOF LEADER		
ELEV	ELEVATOR	MIRR	MIRROR	RLG	RAILING		
EPS	EXPANDED POLYSTYRENE	MISC	MISCELLANEOUS	RM	ROOM		
EQ	EQUAL	MOD	MODIFY	RO	ROUGH OPENING		
EXIST	EXISTING	MB	MOISTURE BARRIER	RSD	ROLLING STEEL DOOR		
EXP EXT	EXPOSED EXTERIOR	MTL MWP	METAL METAL WALL PANEL	RTU	ROOFTOP UNIT ROOF VENT		
L/\	LATERION	IVIVV	IVIL I AL VIALLE FAINEL	RV	NOOI VENI		

DRAWING LEGEND & SYMBOLS						
TYP.	DEMOLITION KEYNOTE	0	GRIDLINE AND GRID MARK	DEMOLISH		
1	SHEET KEYNOTE	1 A101 SIM	DETAIL MARK DRAWING NUMBER, SHEET NUMBER (E) E	(E) EXISTING WORK		
A	SUPPLEMENTAL KEYNOTE					
\$1	ROOF/WALL ASSEMBLY	1 A101	ELEVATION/SECTION MARK DRAWING NUMBER, SHEET NUMBER	(N) NEW WORK		
W1	DOOR/WINDOW TAG	NORTH	PROJECT NORTH DIRECTION	EXISTING WORK TO BE DEMOLISHED		
1	REVISION TAG					
Room Rm_Occupancy	ROOM TAG	1 A3.0	PHOTO REFERENCE PHOTO NUMBER, SHEET NUMBER	(N) SHEET METAL FLASHING		
101 150 SF	ROOM NAME, OCCUPANCY ROOM NUMBER, ROOM AREA	Name Elevation	ELEVATION/LEVEL MARK	O _{V.T.R.} (E) VENT THROUGH ROOF		

GENERAL NOTES

- 1. DRAWINGS HAVE BEEN PREPARED USING AVAILABLE RECORD DOCUMENTS AND OTHER INFORMATION SUBMITTED, IN PART, BY OTHERS. WHILE THE INFORMATION USED IS BELIEVED TO BE RELIABLE, THE ENGINEER HAS NOT VERIFIED ACCURACY AND/OR COMPLETENESS OF THE INFORMATION, AND IS NOT RESPONSIBLE FOR ITS ACCURACY, NOR FOR ERRORS/OMISSIONS WHICH MAY BE INCORPORATED INTO THIS DOCUMENT AS A RESULT.
- 2. CONTRACTOR TO VERIFY ALL DIMENSIONS, PROPERTY LINES, MEASUREMENTS AND CONDITIONS IN THE FIELD BEFORE BEGINNING WORK. ANY DISCREPANCIES, ERRORS OR OMISSIONS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 3. THE ENGINEER WILL HAVE A REPRESENTATIVE ON SITE, PART-TIME TO OBSERVE THE CONSTRUCTION FOR COMPLIANCE WITH THE DESIGN INTENT AND TO ASSIST THE CONTRACTOR IN RESOLVING VARIATIONS IN THE EXISTING CONSTRUCTION. THESE DOCUMENTS ADDRESS ALL KNOWN CONDITIONS, BUT IT IS ANTICIPATED THAT HIDDEN CONDITIONS WILL BE ENCOUNTERED DURING CONSTRUCTION. THE ENGINEER WILL OBSERVE ALL SUCH HIDDEN CONDITIONS AND ISSUE ADDITIONAL CLARIFICATIONS OR MODIFICATIONS TO THE DESIGN IN ORDER TO ADDRESS SUCH CONDITIONS, AND WILL DOCUMENT ALL CHANGES.
- 4. UNLESS OTHERWISE NOTED, ALL ANGLES TO BE RIGHT ANGLES, ALL LINES WHICH APPEAR PARALLEL ARE TO BE PARALLEL, AND ALL ITEMS WHICH APPEAR CENTERED ARE TO BE CENTERED. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THAT ALL LINES ARE TRUE, LEVEL, PLUMB AND SQUARE.
- 5. DETAILED AND/OR LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER GENERAL AND SMALLER SCALE DRAWINGS. POSTED DIMENSIONS WILL TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR TO VERIFY SCALED DIMENSIONS WITH ENGINEER BEFORE PROCEEDING WITH WORK.
- 6. ALL ATTACHMENTS, CONNECTIONS AND FASTENINGS OF ANY NATURE ARE TO BE PROPERLY AND PERMANENTLY SECURED IN CONFORMANCE WITH THE BEST PRACTICES OF THE BUILDING INDUSTRY. DRAWINGS SHOW ONLY SPECIAL DETAILS OR REQUIREMENTS TO ASSIST THE CONTRACTOR AND DO NOT SHOW EVERY DETAIL.
- 7. DETAILS SHOWN IN THESE DRAWINGS ARE TYPICAL AND WILL APPLY UNLESS OTHERWISE NOTED OR SHOWN. DETAILS OF CONSTRUCTION NOT FULLY SHOWN ARE TO BE OF THE SAME NATURE AS THOSE DRAWN FOR SIMILAR CONDITIONS.
- 8. CONTRACTOR TO COORDINATE ALL OPERATIONS WITH ENGINEER, INCLUDING: SITE ACCESS, MATERIALS STORAGE AND STAGING, INTERRUPTION OF ELECTRICAL, MECHANICAL, FIRE-ALARM, LOW-VOLTAGE SERVICES AND TIMING OF NOISY OR DISRUPTIVE OPERATIONS. CONTRACTOR TO VERIFY SEQUENCE OF WORK WITH ENGINEER.
- 9. ALL LUMBER OR PLYWOOD IN CONTACT WITH CONCRETE OR LUMBER INSTALLED AS NAILERS (EXCEPT PLYWOOD DECK OR CRICKETS) SHALL BE PRESSURE-TREATED WITH WATER-BORNE PRESERVATIVES.
- 10. ALL WORK TO BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE CODES, LAWS AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORK.







CODE SUMMARY:

PROJECT NAME: ADMINISTRATIVE BUILDING METAL ROOF REPLACEMENT

PROJECT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98421

SW 1/4 OF SECTION 34, T 21 N, R. 3E, WM. LEGAL DESCRIPTION:

SCOPE OF WORK: REMOVE AND REPLACE EXISTING METAL ROOF AND FASCIA WALL PANELS

PROJECT DESCRIPTION: ALTERATION/REPAIR

JURISDICTION: CITY OF TACOMA

> PLANNING AND DEVELOPMENT SERVICES 747 MARKET STREET, 3RD FLOOR

TACOMA, WA 98402 P. (253) 591-5030

2018 INTERNATIONAL BUILDING CODE WITH CITY OF TACOMA AMENDMENTS BUILDING CODE EDITION:

2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)

2018 WASHINGTON STATE ENERGY CODE (WSEC)

- WAC 51-11C (COMMERCIAL)

CONSTRUCTION TYPE: TYPE V, FULLY SPRINKLERED

11-FR, V-1 HR (PER ORIGINAL CONSTRUCITON DOCUMENTS, DATED 1981.

RECLASSIFIED AS TYPE V. FULLY SPRINKLERED IN 2002 RENOVATION

DATE BUILT: 1981

SQUARE FEET: 21,264 SF (FIRST FLOOR 19,542 SF (SECOND FLOOR)

1,216 SF (ATTIC FLOOR)

42,022 SF

OCCUPANCY: (B) BUSINESS

CONTACT INFORMATION:

OWNER:

PORT OF TACOMA ONE SITCUM PLAZA TACOMA, WA 98421 NORMAN GILBERT, PE P. (253) 383-9406

E. ngilbert@portoftacoma.com

ARCHITECT:

OAI, PS

1011 SW KLICKITAT WAY, SUITE 208

SEATTLE, WA 98134

JERRY OSBORN | AIA, NCARB, LEED AP

ENERGY CODE ANALYSIS

Alterations Worksheet - 2018 Washington State Energy Code

Project Information Administrative Roof Replacement One Sitcum Plaza

Tacoma, WA 98421

OAI, PS 1011 SW Klickitat Way, Suite 208 Seattle, WA 98134

The WSEC requirements for alterations are located in Chapter 5 of the code text. Alterations (remodels) do not need to obtain energy credits from Table R406.3

Additions must meet the requirements for new construction. This includes nonconditioned space being altered to become conditioned space.

If yes: Exposed wall cavities must be insulated -

2 X 4 wall studs require R-15 insulation 2 X 6 wall studs require R-21 insulation

Will the roof/ceiling framing cavities or attic be exposed? Yes

If yes: Exposed roof/ceiling assemblies must be insulated -

Vaulted ceilings: Insulate to the full depth of the framing member while allowing for the minimum 1" ventilated space

Install R-49 insulation or what the attic space can accommodate based on the roof pitch

Will the floor framing cavities be exposed? V No

If yes: Exposed floor cavities must be insulated to R-30

Are the windows and/or doors being replaced?

(includes both window or door and frames)

V No

If yes: New windows and doors must have an area weighted average U-factor of ≤0.30

Will the heating or cooling system be replaced? Tyes

New equipment must meet current requirements and

ducts need to be tested

Will the hot water system be altered? Yes

New water heating equipment must meet current code requirements

Are more than 50% of the light fixtures being changed?

75% of all lamps must be high efficacy

(LED or CFL)

R503.1.1 Building envelope. Building envelope assemblies that are part of the alteration shall comply with Section R402.1.1 or R402.1.4, Sections R402.2.1 through R402.2.11, R402.3.1, R402.3.2, R402.4.3 and R402.4.4.

Exception: The following alterations need not comply with the requirements for new construction provided the energy use of the building is not increased:

Storm windows installed over existing fenestration.

2. Existing ceiling, wall or floor cavities exposed during construction provided that these cavities are filled with insulation. 2x4 framed walls shall be insulated to a minimum of R-15 and 2x6 framed walls shall be insulated to a minimum of R-21.

3. Construction where the existing roof, wall or floor cavity is not exposed. Note: neither the existing roof sheathing or existing roof insulaton are exposed under this proposal.

4. Roof recover.

5. Roofs without insulation in the cavity and where the sheathing or insulation is exposed during reroofing shall be insulated either above or below the sheathing.

6. Surface-applied window film installed on existing single pane fenestration assemblies to reduce solar heat gain provided the code does not require the glazing fenestration to be replaced.

R503.1.1.1 Replacement fenestration. Where some or all of an existing fenestration unit is replaced with a new fenestration product, including sash and glazing, the replacement fenestration unit shall meet the applicable requirements for U-factor and SHGC in Table R402.1.1. Where more than one replacement fenestration unit is being installed, an area-weighted average of the U-factor and SHGC of all replacement fenestration shall be permitted to be used to demonstrate compliance.

R503.1.2 Heating and cooling systems. New heating, cooling and duct systems that are part of the alteration shall comply with Section R403.

1. Where ducts from an existing heating and cooling system are extended, duct systems with less than 40 linear feet in unconditioned spaces shall not be required to be tested in accordance with Section R403.2.2.

Existing duct systems constructed, insulated or sealed with asbestos.

R502.1.1.2 Heating and cooling systems. New heating, cooling and duct systems that are part of the addition shall comply with Section R403.

Exception: The following need not comply with the testing requirements of Section R403.3.3:

Additions of less than 750 square feet.

2. Duct systems that are documented to have been previously sealed as confirmed through field

verification and diagnostic testing in accordance with procedures in WSU RS-33. 3. Ducts with less than 40 linear feet in unconditioned spaces.

4. Existing duct systems constructed, insulated or sealed with asbestos.

R503.1.3 Service hot water systems. New service hot water systems that are part of the alteration shall comply with Section R403.5.

R503.1.4 Lighting. New lighting systems that are part of the alteration shall comply with Section R404.1.

Exception: Alterations that replace less than 50 percent of the luminaires in a space, provided that such alterations do not increase the installed interior lighting power.

R503.2 Change in space conditioning. Any nonconditioned or low-energy space that is altered to become conditioned space shall be required to be brought into full compliance with this code.

REPLACEMENT





SITE PLAN & STAGING LAYOUT