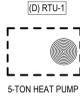


**DEMOLITION NOTES:**

- DEMOLISH EXISTING ROOF UNITS AND REPLACE W/ SCHEDULED REPLACEMENT UNITS IN SAME LOCATION.
- COORDINATE WITH ELECTRICIAN TO CONFIRM WIRING TO REMAIN.
- REMOVE EXISTING DUCT WORK AS NECESSARY TO INSTALL REPLACEMENT ROOFTOP UNITS.



**FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS (MIN. PLAN SIZE 24" X 36")**

**2018 GENERAL NOTES**

- COMPLETE INSTALLATION OF THE MECHANICAL SYSTEM SHALL BE PER THE LATEST ADOPTED VERSION OF THE WAS BUILDING CODE (WBC), WASHINGTON STATE MECHANICAL CODE (WSMC), WASHINGTON STATE ENERGY CODE (WSEC), UNIFORM PLUMBING CODE (UPC), WASHINGTON STATE FIRE CODE (WSFC), NFPA, AND REGULATIONS AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTIONS.
- MECHANICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND DO NOT NECESSARILY REFLECT EVERY REQUIRED OFF-SET, FITTING, OR ACCESSORY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE DOCUMENTS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS. DO NOT SCALE DRAWINGS.
- ITEMS MARKED AS TYPICAL APPLY TO THAT DRAWING SHEET ONLY, UNLESS NOTED OTHERWISE, DETAILS MARKED AS TYPICAL APPLY TO THE DRAWING SET.
- COORDINATE MECHANICAL INSTALLATION WITH BUILDING STRUCTURE AND OTHER TRADES PRIOR TO FABRICATION, PURCHASE, AND/OR INSTALLATION OF SCOPE OF WORK. VERIFY SPECIFIC PROJECT REQUIREMENTS FOR CUTTING AND PATCHING, COORDINATE AND VERIFY CLEARANCES BEFORE COMMENCING WORK. DIMENSIONS TO EQUIPMENT TO BE INCLUDED WITH AS-BUILTS.
- VERIFY SITE VOLTAGES AND ELECTRICAL LOADS PRIOR TO ORDERING ANY EQUIPMENT.
- EQUIPMENT SHALL BE REGULARLY CATALOGED FROM THE MANUFACTURER. ALL EQUIPMENT SHALL BE FREE FROM DEFECTS IN MATERIAL, WORKMANSHIP, AND SHALL BE OF THE KIND AND QUALITY DESCRIBED HEREIN. EQUIPMENT SHALL BE APPROVED FOR INSTALLATION IN THE STATE OF WASHINGTON. ALL EQUIPMENT SHALL BE LABELED AND TAGGED PER THE DRAWINGS.
- PROVIDE MECHANICAL EQUIPMENT CLEARANCES, 36" FOR MECHANICAL ACCESS OR ELECTRICAL ACCESS ON UNITS OF LESS THAN 460V, 42" FOR ELECTRICAL ACCESS OF UNITS 460V, OR OTHER CLEARANCES PER THE MANUFACTURERS RECOMMENDATIONS.
- INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- OBSERVE THE FIRE AND SMOKE PROTECTION FEATURES PER IBC CHAPTER 7: FIRE WALLS (706), FIRE BARRIERS (707), FIRE PARTITIONS (708), SMOKE BARRIERS (709), SMOKE PARTITIONS (710), HORIZONTAL ASSEMBLIES (711), VERTICAL OPENINGS (712), SHAFT ENCLOSURES (713), PENETRATIONS (714), OPENING PROTECTIVE (716), AND DUCTS AND TRANSFER OPENINGS (717).
- ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE.
- ALL MECHANICAL HEATING AND VENTILATION EQUIPMENT SHALL CONFORM TO SMACNA, LOCAL AND STATE REGULATIONS FOR SEISMIC RESTRAINT (INCLUDING PIPING AND DUCTWORK), COORDINATE WITH STRUCTURAL.

**2018 HVAC GENERAL NOTES**

- MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES BASED ON NATIONAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES. THIS PROJECT IS DESIGNED SPECIFICALLY BASED ON THE 2018 WASHINGTON MECHANICAL CODE (WSMC), THE 2018 WASHINGTON STATE BUILDING CODE (WSBC) AND THE 2018 WASHINGTON STATE ENERGY CODE (WSEC).
- THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET WHICH MAY BE REQUIRED. PROVIDE ADDITIONAL DUCTWORK AND OFFSETS AS REQUIRED.
- COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS AND ELECTRICAL CONNECTIONS FOR MECHANICAL EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES OF 42" DEEP AND 30" WIDE IN FRONT OF EQUIPMENT.
- DUCT CONSTRUCTION AND HANGING SHALL COMPLY WITH CHAPTER 6 OF THE 2018 WSMC AND WITH CURRENT SMACNA DUCT CONSTRUCTION STANDARDS. ALL DUCT SIZES ARE INSIDE CLEAR DIMENSIONS; INCREASE METAL DUCT SIZE TO ACCOUNT FOR DUCT LINER.
- PROVIDE RETURN DUCT SMOKE DETECTOR AUTOMATIC SHUT DOWN OF ALL NEW HEATING, COOLING, OR VENTILATION EQUIPMENT MOVING IN EXCESS OF 2000 CFM IN ACCORDANCE WITH THE 2018 WSMC. POWER AND INTERLOCK WIRING WITH THE BUILDING FIRE ALARM SYSTEM IS BY THE ELECTRICAL CONTRACTOR.
- ALL CUTTING, PATCHING, FRAMING, FIRE SAFING, PAINTING, ROOF OPENING, CURBS, ROOFING, ETC. REQUIRED TO INSTALL MECHANICAL SYSTEMS SHALL BE BY THE GENERAL CONTRACTOR INCLUDING ALL FLASHING FRAMING AND ROOFING OF SHEETMETAL DUCT ENCLOSURES.

**2018 WA ENERGY CODE NOTES**

- THE COMPLIANCE PATH IS PRESCRIPTIVE PATH.
- WSEC C403.3.2: HVAC EQUIPMENT SHALL HAVE MINIMUM PERFORMANCE AT SPECIFIED RATING CONDITIONS NOT LESS THAN THE VALUES INDICATED IN WSEC TABLES C403.3.2(1) THROUGH C403.3.2(3). WSEC C403.4.1: EACH SYSTEM SHALL BE PROVIDED WITH AT LEAST ONE TEMPERATURE CONTROL DEVICE. EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROL RESPONDING TO TEMPERATURE WITHIN THE ZONE. AT A MINIMUM, EACH FLOOR OF A BUILDING SHALL BE CONSIDERED A SEPARATE ZONE.
- WSEC C403.5.3.1: AIR ECONOMIZERS SHALL BE CAPABLE OF AUTOMATICALLY MODULATING OUTSIDE AIR AND RETURN AIR DAMPERS TO PROVIDE 100% OF THE DESIGN SUPPLY AIR AS OUTSIDE AIR TO REDUCE OR ELIMINATE THE NEED FOR MECHANICAL COOLING, EXCEPT AS EXEMPTED BY WSEC SECTION C403.5 EXCEPTION 1.
- WSEC C403.10.2: ALL DUCTWORK SHALL COMPLY WITH SMACNA STANDARDS FOR CONSTRUCTION OF GALVANIZED DUCTWORK. ALL DUCTWORK SHALL BE SEALED. DUCT TAPE NOT ALLOWED.
- WSEC C408.1: BUILDINGS WITH COOLING CAPACITY LESS THAN 240,000 BTU/H AND HEATING CAPACITY LESS THAN 300,000 BTU/H ARE EXEMPT FROM THE COMMISSIONING PROCESS PER SEC C408.1 EXCEPTION 1.
- PROVIDE SUPPORTING DOCUMENTATION IN THE FORM OF OPERATION AND MAINTENANCE AND RECORD DOCUMENTS.

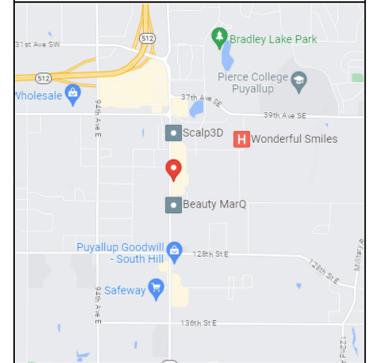
**LEGAL INFORMATION**

ADDRESS: 4621 TO 4627 S MERIDIAN, PUYALLUP, WA 98373  
 PARCEL #: 0419102125  
 ZONING: CCX - COMMUNITY COMMERCIAL MIXED-USE DISTRICT  
 LEGAL DESCRIPTION:  
 SECTION 19 TOWNSHIP 19 RANGE 04 QUARTER 23 L 2 A OF MERIDIAN SHOPPING CENTER BSP 84-06-06-043 DESS AS L 2 OF L 1, 84-04-26-0193 EXC W 170 FT OF N 240 FT THEREOF ALSO EXC PORTION TO WA ST DOT PER E7A 611211, 648661 & 611694 EASE OF REC SEG TO RESTORE PARCEL COMB FOR TAX PURPOSES ONLY OUT OF 2-091 SEG 2017-0119 DAB3016 DX

**SITE MAP**



**VICINITY MAP**



**HVAC SCOPE OF WORK**

- REMOVE EXISTING 5 ROOFTOP UNITS
- PROVIDE REPLACEMENT FOR 5 ROOFTOP UNITS WITH CURB ADAPTERS
- CONNECT EXISTING DUCTWORK AND CONTROL WIRING TO REPLACEMENT ROOFTOP UNITS

**SHEET INDEX**

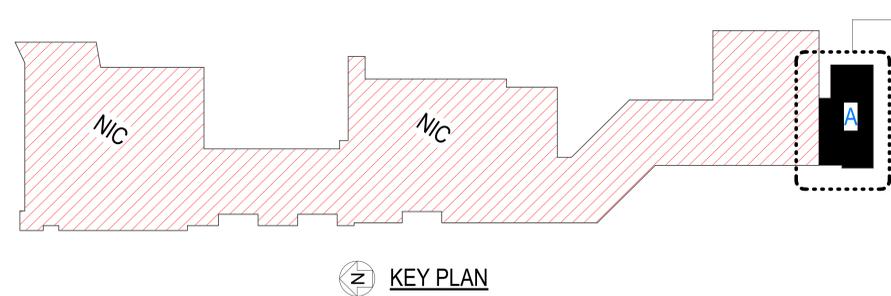
SHEET	DESCRIPTION
M0.0	MECHANICAL COVER SHEET

**DUCTWORK LEGEND**

SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER/GRILLE
	RETURN GRILLE
	EXHAUST GRILLE
	SLOT & LINEAR DIFFUSER/ GRILLE
	ROUND AND SQUARE DUCT (UP & DOWN)
	BARE SHEETMETAL (RECTANGULAR, ROUND, & OVAL)
	SOUNDLINE SHEETMETAL WITH 1" LINING (LINO)
	FLEX DUCT
	SQUARE -TO-ROUND TRANSITION
	TRANSITION/REDUCER
	DUCT CONTINUES
	DUCT CAP
	FIRE DAMPER
	FIRE/SMOKE DAMPER
	BALANCING DAMPER
	MOTORIZED DAMPER
	SUPPLY AIR
	RETURN/EXHAUST AIR
	THERMOSTAT (ROOM/DUCT)
	GRILLE/ REGISTER/ DIFFUSER TAG

**1 ROOF - A - HVAC PLAN DEMO**  
1/8" = 1'-0"

**2 ROOF - A - HVAC PLAN**  
1/8" = 1'-0"



**BALANCING NOTES AND OPERATION SEQUENCE:**

- BALANCE REPLACEMENT UNITS TO MATCH EXISTING UNIT AIRFLOW, UNLESS NOTED OTHERWISE BY ENGINEERING.
- COORDINATE WITH OWNER TO PROGRAM THERMOSTAT FOR SCHEDULED OCCUPANCY.
- INITIAL THERMOSTAT SET POINTS SHALL BE 75 DEG F FOR COOLING AND 70 DEG F FOR HEATING.

**GENERAL LEGEND**

SYMBOL	DESCRIPTION
	EQUIPMENT TAG
	FIXTURE TAG
	FLAG NOTE
	POINT OF CONNECTION
	DETAIL SYMBOL
	SECTION SYMBOL
	ZONE TAG

HVAC ABBREVIATIONS	
ABBR	FULL NAME
AC	AIR-CONDITIONING UNIT
AHU	AIR HANDLING UNIT
APRX	APPROXIMATELY
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
BTU/H	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CND	CONDENSATE
CONN	CONNECTION
DB	DECIBEL(S)
DB	DUCT BOARD, OR DRY BULB
DMPR	DAMPER
DN	DOWN
DWG	DRAWING
(E)	EXISTING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ETC	ETCETERA
F	FIRE, FAHRENHEIT
FC	FLEXIBLE CONNECTION
FFM	FEET PER MINUTE
'FT	FOOT, OR FEET
HP	HEAT PUMP, OR HORSE POWER
HR	HOUR
'IN	INCH, OR INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
#LBS	POUNDS
MAX	MAXIMUM
MBH	1,000 BTU/H
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MIN	MINIMUM
NI	NEW
NTS	NOT TO SCALE
OSA	OUTSIDE AIR
REQ'D	REQUIRED
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SF	SQUARE FOOT
SS	START/STOP
TSTAT	THERMOSTAT
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
WB	WET BULB
WT	WEIGHT
W/	WITH

**PACKAGED HEAT PUMP SCHEDULE**

TAG	MANUFACTURER / MODEL	LOCATION	SERVES	STYLE	COOLING						SUPPLY FAN				HEATING				ELECTRICAL			SOUND (LWA)	REFRIG.	WEIGHT (LBS)	NOTES			
					TOTAL (MBH)	SENS. (MBH)	SEER (SEER2)	EAT (°F)	DB	WB	DB	WB	CFM	ESP (IN. W.G.)	HP	OSA (CFM)	CAP. (MBH)	HSPF	AUX HEAT (KW)	AUX HEAT MCA	MAX FUSE SIZE					VOLT / PH	HEAT PUMP MCA	MOPP
RTU-1	TRANE / 4WCY4060A3000C	ROOF - AREA A (SEE KEYPLAN)	ROOF - AREA A (SEE KEYPLAN)	VERTICAL DISCHARGE	58.00	43.5	14.0	82	69	62.0	60.0	1950	0.6	1.00	490	55.0 / 37.6	8.00	6.0	-	-	208 / 3	55.0	60	NO	76.0	R410A	950	1,2,3,4,5,6
RTU-2	TRANE / 4WCY4036B3000A	ROOF - AREA A (SEE KEYPLAN)	ROOF - AREA A (SEE KEYPLAN)	VERTICAL DISCHARGE	36.0	27.0	14.0	82	69	62.0	60.0	1200	0.6	0.5	320	32.4 / 24.8	8.00	6.0	21.0	25	208 / 3	18.4	25	NO	69.4	R410A	750	1,3,4,5,6,7
RTU-3	TRANE / 4WCY4036B3000A	ROOF - AREA A (SEE KEYPLAN)	ROOF - AREA A (SEE KEYPLAN)	VERTICAL DISCHARGE	36.0	27.0	14.0	82	69	62.0	60.0	1200	0.6	0.5	320	32.4 / 24.8	8.00	6.0	21.0	25	208 / 3	18.4	25	NO	69.4	R410A	750	1,3,4,5,6,7
RTU-4	TRANE / 4WCC4024E300A	ROOF - AREA A (SEE KEYPLAN)	ROOF - AREA A (SEE KEYPLAN)	VERTICAL DISCHARGE	23.8	17.9	13.4	82	69	62.0	60.0	800	0.6	0.5	210	23.2 / 14.7	(7.0)	3.76	23.0	25	208 / 1	20.6	30	NO	66.4	R410A	725	1,3,4,5,6,7
RTU-5	TRANE / 4WCY4036B3000A	ROOF - AREA A (SEE KEYPLAN)	ROOF - AREA A (SEE KEYPLAN)	VERTICAL DISCHARGE	36.0	27.0	14.0	82	69	62.0	60.0	1200	0.6	0.5	320	32.4 / 24.8	8.00	6.0	21.0	25	208 / 3	18.4	25	NO	69.4	R410A	750	1,3,4,5,6,7

- NOTES:
- FIELD INSTALLED DISCONNECT SWITCH.
  - SINGLE POINT POWER CONNECTION.
  - PROVIDE WITH THERMOSTAT (MOUNT ON WALL), WHITE FINISH.
  - INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND DETAILS ON DRAWINGS.
  - PROVIDE WITH ECONOMIZER WITH FDD AND BAROMETRIC RELIEF DAMPER.
  - PROVIDE CURB ADAPTER. SCHEDULE WEIGHT INCLUDES CURB ADAPTER WEIGHT.
  - DUAL POINT POWER CONNECTION.

**Auburn Mechanical**  
 When performance counts  
 P.O. Box 249  
 2623 West Valley Hwy. Auburn, WA 98071  
 Tel: (253)838-9780  
 Fax: (253)838-1384  
 AU-BU-RM11638A

**City of Puyallup Building ACCEPTED**  
 JMontgomery  
 09/01/2023  
 2:25:29 PM

PRMH20231198

**City of Puyallup Development & Permitting Services ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

08/23/2023

0	PERMIT SET	08/14/2023
No.	Revision/Issue	Date

**KEY PLAN**

Project Name and Address  
**MERIDIAN SHOPPING CENTER**  
 4621 S Meridian Ave Puyallup, WA 98373

Sheet  
**M0.0**  
 Drawing Description  
**MECHANICAL COVER SHEET**  
 Drawn by AKH Engineer GAH Checked by MW  
 Date 08/14/2023  
 Scale As indicated