

Approval of submitted plans is not an

regulations of local government. The

codes and regulations of the local

The approved construction plans,

government.

inspection.

& Industries.

1-800-647-0982

contractor is responsible for making sure

documents, and all engineering must be

Full sized legible color plans are required

Separate Electrical Permit is required with

the Washington State Department of Labor

https://lni.wa.gov/licensing-permits/electrical/

electrical-permits-fees-and-inspections

or call for Licensing Information:

to be provided by the permitee on site for

posted on the job at all inspections in a

visible and readily accessible location.

approval of omissions or oversights by this

office or non compliance with any applicable

that the building complies with all applicable

[2021 Washington State Energy Code, section R503.1]

Alterations to any building or structure shall comply with the requirements of the code for new construction, without requiring the unaltered portions of the existing building or building system to comply with this code. Alterations shall be such that the existing building or structure is no less conforming to the provisions of this code than the existing building or structure was prior to the alteration.

Alterations shall not create an unsafe or hazardous condition or overload existing building systems. Alterations shall be such that the existing building or structure uses no more energy than the existing building or structure prior to the alteration. Alterations to existing buildings shall comply with Section R503.1.1 through R503.1.4.

The code official may approve designs of alterations which do not fully conform to all of the requirements of this code where in the opinion of the code official full compliance is physically impossible and/or economically impractical and:

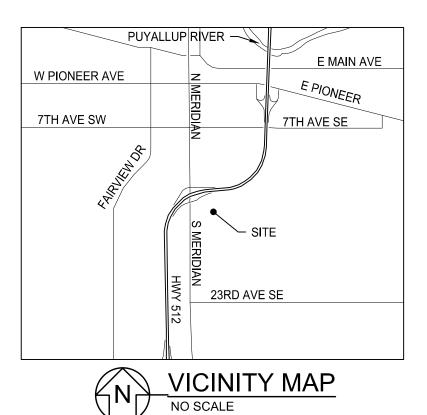
- 1. The alteration improves the energy efficiency of the building; or
- 2. The alteration is energy efficient and is necessary for the health, safety, and welfare of the general public.

/ - 0	City of Puyallup											
	ermitting Services PERMIT											
Building	Planning											
Engineering	Public Works											
Fire OF W	Traffic											

City of Puyallup Building **REVIEWED FOR** COMPLIANCE

SKinnear 02/07/2025 10:19:57 AM





CONTACT LIST TITLE NAME COMPANY PHONE NUMBER EMAIL MARC.RYPDAHL@MACMILLER.COM MARC RYPDAHL MACDONALD MILLER 503-262-5418 MECHANICAL DESIGNER THOMAS.MCDANIEL@MACMILLER.COM SENIOR PROJECT MANAGER THOMAS MCDANIEL MACDONALD MILLER 206-387-0007 NATHAN.OSTRANDER@MACMILLER.COM.COM 206-768-3846 SENIOR PROJECT EXECUTIVE - HEALTHCARE NATE OSTRANDER MACDONALD MILLER CHRIS.LEE@MACMILLER.COM 206-768-4266 ENGINEERING MANAGER CHRIS LEE MACDONALD MILLER

ABBV	FULL NAME	ABBV	FULL NAME	ABBV	FULL NAME
AC .	AIR CONDITIONING UNIT	EWT	ENTERING WATER TEMPERATURE	NOM	NOMINAL
١FF	ABOVE FINISHED FLOOR	FCU	FAN COIL UNIT	NTS	NOT TO SCALE
\HU	AIR HANDLING UNIT	FD	FIRE DAMPER	OBD	OPPOSED BLADE DAMPER
λL	ALUMINUM	FLA	FULL LOAD AMPS	OD	OUTSIDE DIMENSION
BAS	BUILDING AUTOMATION SYSTEM	FOB	FLAT ON BOTTOM	POC	POINT OF CONNECTION
BDD	BACK DRAFT DAMPER	FOT	FLAT ON TOP	PRV	PRESSURE REDUCING VALVE
	BLACK IRON	FSD	FIRE SMOKE DAMPER	PVC	POLYVINYL CHLORIDE
BOD	BOTTOM OF DUCT	GALV	GALVANIZED	REQ'D	REQUIRED
OTT	BOTTOM	GC	GENERAL CONTRACTOR	RPBA	REDUCED PRESSURE BACKFLOW ASSY
BTU	BRITISH THERMAL UNITS	GENX	GENERATOR EXHAUST	RTU	ROOFTOP UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR	GLVNL	GALVANNEAL	SA	SUPPLY AIR
CAT1	CATEGORY ONE VENT	GPM	GALLONS PER MINUTE	SD	SMOKE DAMPER
CAT4	CATEGORY FOUR VENT	GREASE	GREASE DUCT	SL	SOUND LINED
FM	CUBIC FEET PER MINUTE	GWB	GYPSUM WALL BOARD	SM	SHEET METAL
PVC	CPVC MATERIAL	HP	HORSE POWER, HEAT PUMP	SP	STATIC PRESSURE
)B	DUCTBOARD	HVAC	HEATING, VENTILATION AND AIR COND.	SS	STAINLESS STEEL
DC	DIRECT DIGITAL CONTROLS	HX	HEAT EXCHANGER	SUSP	SUSPENDED
EMO	DEMOLISH	ID	INSIDE DIMENSION	T	THERMOSTAT
)P	DIFFERENTIAL PRESSURE	LAT	LEAVING AIR TEMPERATURE	TOD	TOP OF DUCT
PM	DIFFERENTIAL PRESSURE MONITOR	LBS	POUNDS	TV	TURNING VANES
IFF	DIFFUSER	LWT	LEAVING WATER TEMPERATURE	TYP	TYPICAL
OMPR	DAMPER	MAT	MIXED AIR TEMPERATURE	UNO	UNLESS NOTED OTHERWISE
ON	DOWN	MBH	ONE THOUSAND BTUH	VAV	VARIABLE AIR VOLUME
:	EXISTING	MCA	MINIMUM CIRCUIT AMPACITY	VD	VOLUME DAMPER
EAT	ENTERING AIR TEMPERATURE	MD	MOTORIZED DAMPER	VFD	VARIABLE FREQUENCY DRIVE
C	EGGCRATE	MIN	MINIMUM	W	DUCT INSULATION WRAP
ER	ENERGY EFFICIENCY RATIO	M-M	MACDONALD-MILLER	W/	WITH
F	EXHAUST FAN	NC	NORMALLY CLOSED	WELD	WELDED
LEV	ELEVATION	NIC	NOT IN CONTRACT	Ø	VOLTAGE PHASE & DUCT DIAMETER
SP	EXTERNAL STATIC PRESSURE	NO	NORMALLY OPEN		

	HVAC SYSTEM ABBREVIATIONS											
ABBV	FULL NAME	ABBV	FULL NAME	ABBV	FULL NAME							
COMB-GALV	COMBUSTION AIR	EA AL	EXHAUST ALUMINUM	OA	OUTSIDE AIR							
SA	SUPPLY AIR LP	EA SS	EXHAUST SS 304	OA-KOOL	OUTSIDE AIR KOOLDUCT							
SA-KOOL	SUPPLY AIR LP KOOLDUCT	EA AL WELD	EXHAUST ALUMINUM WELDED	RLF	RELIEF AIR							
SA AL	SUPPLY AIR LP ALUMINUM	EA GALV WELD	EXHAUST GALV WELDED	RA	RETURN AIR							
SA SS	SUPPLY AIR LP SS 304 2B	EA GLVNL WELD	EXHAUST GALVANNEAL WELDED	DB	DUCTBOARD							
SA AL WELD	SUPPLY AIR LP ALUMINUM WELDED	EA SS WELD	EXHAUST SS 304 WELDED	FLU-CAT1	FLUE VENT - CATEGORY 1							
SA GALV WELD	SUPPLY AIR MP GALV WELDED	EA BI GREASE	EXHAUST GREASE BLACK IRON WELD	FLU-CAT4	FLUE VENT - CATEGORY 4							
SA GLVNL WELD	SUPPLY AIR MP GALVANNEAL WELD	EA GALV GREASE	EXHAUST GREASE GALV WELDED	FLU-CPVC	FLUE VENT - CPVC MATERIAL							
SA SS WELD	WELDED SUPPLY AIR LP SS 304 2B	EA GALV GREASE	EXHAUST GREASE SS 304 WELDED	FLU-SS	FLUE VENT - SHOP BUILT SS 304							
EA	EXHAUST AIR	MUA	MAKE-UP AIR	FLU-GALV	FLUE VENT - SHOP BUILT GALV							

	PIPING SYSTEM ABBREVIATIONS											
ABBV	FULL NAME	ABBV	FULL NAME	ABBV	FULL NAME							
С	CONDENSATE INDIRECT DRAIN	HHWR	HEATING HOT WATER RETURN	NGV	NATURAL GAS VENT							
CA	AIR COMPRESSED	HHWS	HEATING HOT WATER SUPPLY	PA	AIR PNEUMATIC							
CDWR	CONDENSER WATER RETURN	HPC	STEAM CONDENSATE HIGH PRESS	PC	CONDENSATE PUMPED							
CDWS	CONDENSER WATER SUPPLY	HPS	STEAM HIGH PRESS	PCHR	CHILLED WATER (PROCESS) RETURN							
CHRV	CHILLER RELIEF VENT	HRR	HEAT RECOVERY RETURN	PCHS	CHILLED WATER (PROCESS) SUPPLY							
CHWR	CHILLED WATER RETURN	HRS	HEAT RECOVERY SUPPLY	RGAS	REFRIGERANT HOT GAS							
CHWS	CHILLED WATER SUPPLY	LPC	STEAM CONDENSATE LOW PRESS	RLIQ	REFRIGERANT LIQUID							
CLN STM	STEAM CLEAN	LPG	LIQUID PROPANE	RSUC	REFRIGERANT SUCTION							
CLR	CLOSED LOOP WATER RETURN	LPS	STEAM LOW PRESS	SCHR	CHILLED WATER (SECONDARY) RETURN							
CLS	CLOSED LOOP WATER SUPPLY	LTCR	CHILLED WATER (LOW TEMP) RETURN	SCHS	CHILLED WATER (SECONDARY) SUPPLY							
COMB-PVC	AIR COMBUSTION PVC	LTCS	CHILLED WATER (LOW TEMP) SUPPLY	SCV	STEAM CONDENSATE VENT							
CRYV	CRYO VENT	MPC	STEAM CONDENSATE MEDIUM PRESS	SPC	STEAM CONDENSATE PUMPED							
FOC	FUEL OIL SECONDARY CONTAINMENT	MPS	STEAM MEDIUM PRESS	SV	STEAM VENT							
FOF	FUEL OIL FILL	MUW	MAKE-UP WATER	VAC	VACUUM							
FOR	FUEL OIL RETURN	NG-2PSI	NATURAL GAS 2PSI	VAC-E	VACUUM EXHAUST							
FOS	FUEL OIL SUPPLY	NG-5PSI	NATURAL GAS 5PSI	VRFG	VRF HOT GAS							
FOV	FUEL OIL VENTS	NG-CONDUIT	NATURAL GAS CONDUIT	VRFL	VRF HIGH PRESS LIQUID							
GENX	GENERATOR EXHAUST	NG-H	NATURAL GAS HIGH PRESS	VRFS	VRF LOW PRESS SUCTION							
GLWR	GLYCOL WATER RETURN	NG-L	NATURAL GAS LOW PRESS									
GLWS	GLYCOL WATER SUPPLY	NG-M	NATURAL GAS MEDIUM PRESS									

HVAC GENERAL NOTES - 2021 WSEC

- THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET WHICH MAY BE REQUIRED. THE HVAC CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO
- MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE 2021 EDITIONS OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE 2021 WSEC, AND LOCAL CODES AND ORDINANCES.
- PROVIDE EARTHQUAKE RESTRAINT FOR HVAC EQUIPMENT IN ACCORDANCE WITH SECTION 1613 OF THE 2021 IBC.
- HVAC EQUIPMENT, VALVES AND DAMPERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS. UNLESS SHOWN ON ARCHITECTURAL DRAWINGS, REQUIRED ACCESS PANELS SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. MINIMUM ACCESS DOOR SIZE FOR VALVES AND DAMPERS TO BE 18" X 18".
- WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION TO BE PROVIDED TO THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM, INCLUDING SIZES, AND THE TERMINAL
- OPERATING AND MAINTENANCE MANUALS TO BE PROVIDED TO THE BUILDING OWNER THAT INCLUDE: SUBMITTAL DATA, NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY, HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION AND A COMPLETE OPERATIONAL NARRATIVE FOR EACH SYSTEM
- A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER
- MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, EXCEPT AS NOTED IN SECTION 602,2,1 OF THE 2021 IMC.
- ALL MECHANICAL WORK SHOWN ON DRAWINGS INTENDED TO BE INSTALLED SOLELY BY MACDONALD -MILLER FACILITY SOLUTIONS. MACDONALD-MILLER FACILITY SOLUTIONS SHALL NOT BE HELD ACCOUNTABLE FOR ANY DESIGN OR CONSTRUCTION DEFICIENCIES IF WORK IS PERFORMED BY AN OUTSIDE PARTY.

LEGAL DESCRIPTION

PARCEL NUMBER: 9810000015

SECTION 34 TOWNSHIP 20 RANGE 04 QUARTER 23 WOODS 1ST CANNOT BE SOLD OR SUBD WITHOUT 001-4 & 001-5 LOT 1 OF BLA 2010-06-15-5001 DESC AS BEG AT A PT 30 FT E & 151.05 FT N OF INTER OF 15TH AV SE & 3RD ST SE TH N 322.08 FT TH N 305.27 FT TH E 692.45 FT TH S 78 DEG 58 MIN 52 SEC E 0.44 FT TH S 49.97 FT TH E 40.98 FT TH S 43.29 FT TH N 41.04 FT TH S 181.78 FT TH W 30 FT TH S 196.6 FT TO BEG CURVE CONCAVE TO NW HAVING A RAD OF 19.5 FT & C/A OF 59 DEG 50 MIN 20 SEC & BEING SUBTENDED BY A CHORD WHICH BEARS S 56 DEG 53 MIN 06 SEC W 19.45 FT TH SWLY & WLY ALG SD CURVE 20.37 FT TO PT OF REVERSE CURV TH WLY & SWLY & SLY 90.9 FT CONCAVE TO SE HAVING A RAD OF 60.5 FT & C/A OF 86 DEG 05 MIN 15 SEC TH S 3.26 FT TH SLY, SWLY & WLY 14.92 FT ALG CURVE CONCAVE TO NW HAVING A RAD OF 9.5 FT & C/A OF 89 DEG 59 MIN 59 SEC TH W 107.24 FT TO BEG OF CURVE CONCAVE TO NW HAVING A RAD OF 55.98 FT & C/A OF 81 DEG 57 MIN 04 SEC & BEING SUBTENDED BY CHORD WHICH BEARS S 49 DEG 34 MIN 17 SEC W 73.42 FT TH SLY, SWLY & WLY ALG SD CURVE 80.07 FT TH W 6.43 FT TH S 131.8 FT TH SLY & SELY 14.27 FT ALG SD CURVE CONCAVE TO E HAVING A RAD OF 25 FT & C/A OF 32 DEG 42 MIN 11 SEC TH N 88 DEG 06 MIN 01 SEC W 77.46 FT TO BEG OF CURVE CONCAVE TO N HAVING A RAD OF 40 FT & A C/A OF 43 DEG 31 MIN 52 SEC & BEING SUBTENDED BY CHORD WHICH BEARS S 70 DEG 08 MIN 03 SEC W 29.66 FT TH SWLY & WLY ALG SD CURVE 30.39 FT TH N 88 DEG 06 MIN 01 SEC W 238.87 FT TO BEG OF A CURVE CONCAVE TO NE HAVING A RAD OF 63 FT & A C/A OF 65 DEG 47 MIN 29 SEC & BEING SUBTENDED BY CHORD WHICH BEARS N 48 DEG 11 MIN 19 SEC W 68.43 FT TH WLY, NWLY & NLY ALG SD CURVE 72.34 FT TH N 12 DEG 28 MIN 32 SEC W 81.31 FT TO POB EXC POR DETER TAXABLE & EXC POR DETER EXEMPT PER DOR REG # 01777-001 TOG/W VAC ORD 2958 EASE OF RECORD OUT OF 981000-065-0 SEG 2011-0091 BB 10/11/10 BB DC00354165 5/2/2014 KG

SCOPE OF WORK

DEMOLISH AND REMOVE EXISTING AIR HANDLER AND CONDENSING UNIT AND ALL ASSOCIATED DUCTWORK, GRD'S AND ACCESSORIES.

DEMOLISH AND REMOVE EXISTING AIR HANDLER CHILLED WATER PIPING BACK TO MAIN AND CAP.

FILL EXISTING ROOF OPENINGS AND REPAIR ROOFING TO MATCH EXISTING.

INSTALL (2) 2.5-TON DUCTLESS SPLIT SYSTEMS TO SERVE LARGE DATA ROOM. (1) UNIT IS REDUNDANT

INSTALL (1) 1.5-TON DUCTLESS SPLIT SYSTEM TO SERVE SMALL DATA ROOM.

AC CONDENSING UNIT SCHEDULE												
LINUT #	MEC 9 MODEL NO	TOTAL	SENS	SUM	MER	WINTER	ELECTR	RICAL	WT			
UNIT #	MFG & MODEL NO.	CLG	CLG	EDB	EWB	EDB	VOLT/PH	VOLT/PH HP		NOTES		
CU-1	TRANE CLIMATE MASTER	124,000	103,000	86	67	19	208/3	1/2	-	DEMO		

	AIR HANDLING UNIT SCHEDULE																															
	UNIT II	NFO						FAN SEC	CTIONS										CHILLE	D WAT	ER CO	L							UNIT	INFO		
UNIT				SUP	PPLY AIR	₹		FAN		RELIE	EF AIR		FAN		TOTA	LSENS	FACE	EAT	EAT	LAT	LAT			EWT	LWT		UNIT EL	LEC	SERVICE	ELEC	OPER WT	
NO.	AREA SERVED	MFR. & MODEL NO.	CFM	ESP	TSP	MIN OSA	QTY	SIZE	HP EA	CFM	TSP	QTY	SIZE	HP EA	МВН	MBH	AREA	DB	WB	DB	WB	GPM	DP FT	°F	°F	FILTERS	V0LT/PH	FLA	VOLT/PH	FLA	LBS	NOTES
AHU-1	LEVEL 5 DATA ROOM	TRANE CLIMATE CHANGER	5,000	1.0	1.0	1,000	1	20	5	-	-	-	-	-	151	-	440	78	65	55	65	30	6.3	45	55	4"FLAT	460/3	_	460/3	-	-	DEMO UNIT

SPLIT SYSTEM AIR CONDITIONER / HEAT PUMP SCHEDULE															
		TOTAL					INI	OOR UNIT			OU				
UNIT		CLG.			HTG.			ELECTRI	CAL	WT		ELECTRI	CAL	WT	
NO.	MANUFACTURER	MBH	CFM	SEER2	MBH	HSPF	MODEL	VOLT/PH	MCA	LBS	MODEL	VOLT/PH	MCA	LBS	NOTES
HP-501/CU-501	DAIKIN	30.0	500	17.5	34.8	7.5	FTX30WVJU9	208/1	-	38	RX30WMVJU9	208/1	18.6	133	1,2,3,4,5,6,7
HP-502/CU-502	DAIKIN	30.0	500	17.5	34.8	7.5	FTX30WVJU9	208/1	-	38	RX30WMVJU9	208/1	18.6	133	1,2,3,4,5,6,7,8
HP-503/CU-503	DAIKIN	18.0	400	21.0	21.6	9.6	FTXF18AXVJU	208/1	-	31	RXF18AXVJU	208/1	16.3	101	1,2,3,4,5,6,7

. POWER WIRING AND DISCONNECT SWITCHES BY ELECTRICAL CONTRACTOR.

. MFG'S WIRED WALL MOUNTED CONTROLLER.

PROVIDE CONDENSATE PUMP IF NECESSARY TO ROUTE CONDENSATE TO NEAREST DRAIN OR ROOF. EC TO PROVIDE 120V/1PH POWER. . INDOOR UNIT POWERED FROM OUTDOOR UNIT. OUTDOOR UNIT FACTORY WIRED AND CIRCUIT PROTECTED FOR SINGLE POINT ELECTRICAL CONNECTION.

UNIT FOR MECHANICAL EQUIPMENT ROOM, MEETS 2021 WSEC C403.5 ECONOMIZER EXCEPTION 11 OPTION A.

NOISE DBA IS RADIATED SOUND POWER CONVERTED FROM MFG'S SOUND PRESSURE DATA.

PROVIDE MFG'S WIND BAFFLE FOR LOW AMBIENT OPERATION. REDUNDANT UNIT.

DRAWING SHEET INDEX - HVAC

NUMBER	TITLE	
TM0.01	SCHEDULES	. 8
TM0.01S	SITE PLAN	≧
DM2.05	5TH FLOOR PARTIAL DEMO PLAN	
DM2.06	ROOF PARTIAL DEMO PLAN - HVAC	ı 🖇
TM2.05	5TH FLOOR PARTIAL PLAN - HVAC	3
TM2.06	ROOF PARTIAL PLAN - HVAC	Į
TM3.01	ELEVATIONS - HVAC	1 8

ENGINEER: M RYPDAHL CHECKED BY: T BOVEY

F MAMERTO

LAST REVISED:

02-07-25

DATE PLOTTED:

02-07-25

ISSUE DATE:

MacDonald-Miller

90 SPL.

HVAC

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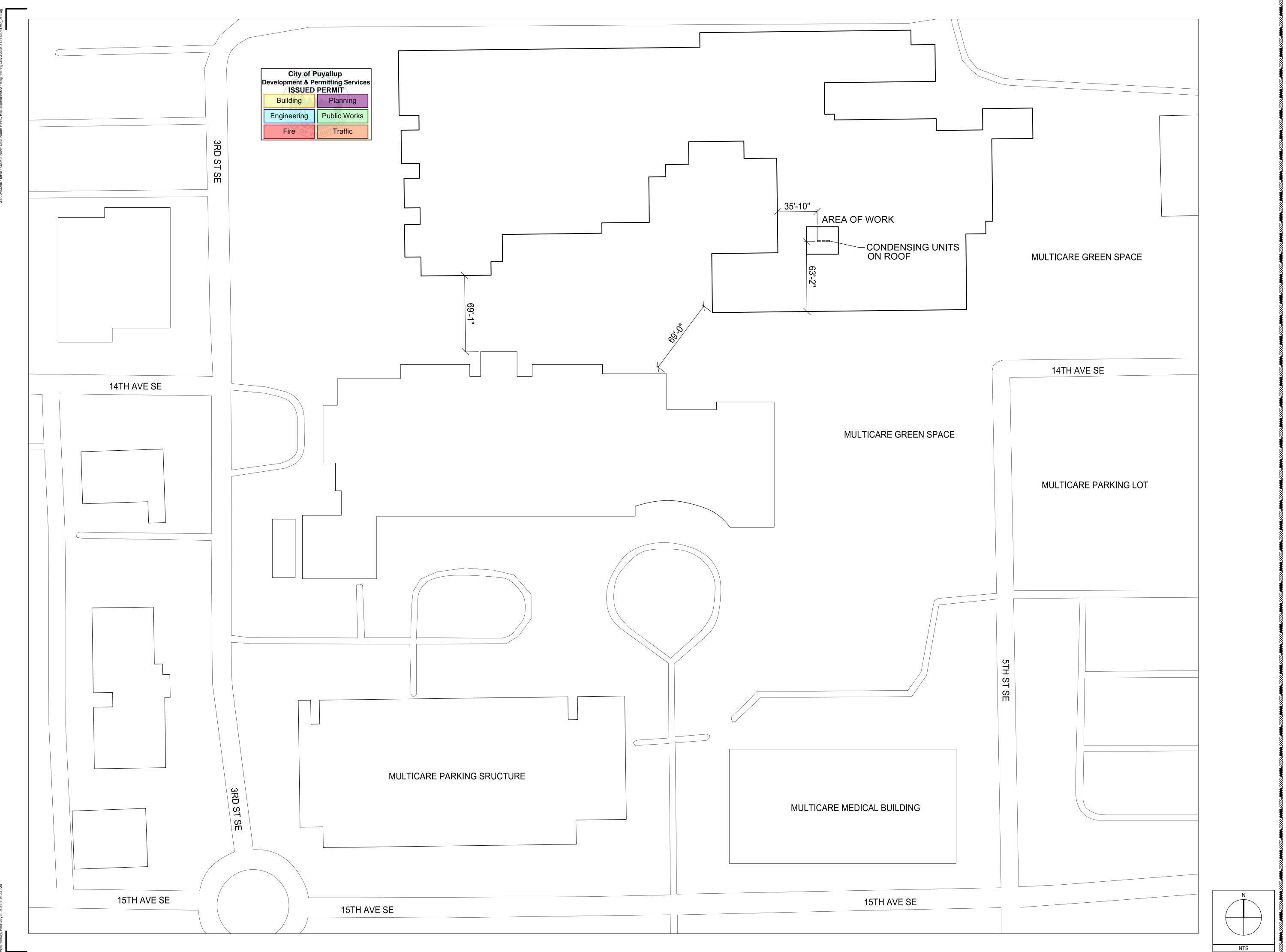
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202

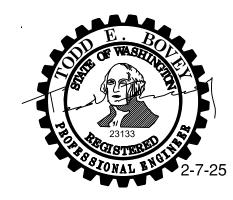
MHM

02-07-25 DRAWING NUMBER: C-2781-77243206-00









DATA RM HVAC REPL.

PRMH20250190

02-07-25

ISSUE DATE: 02-07-25

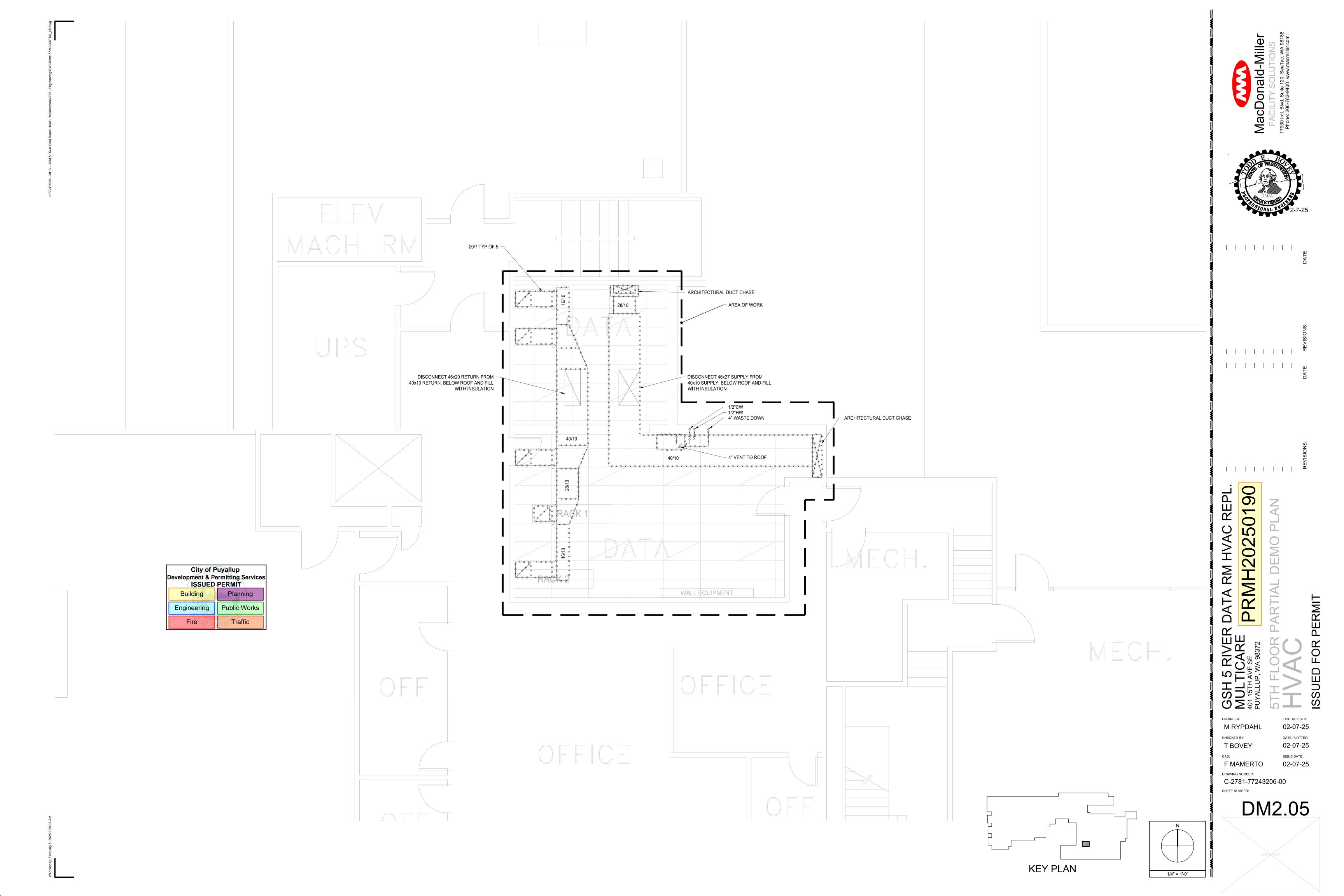
GSH 5 RIVER I MULTICARE 401 15TH AVE SE PUYALLUP, WA 98372 02-07-25 DATE PLOTTED:

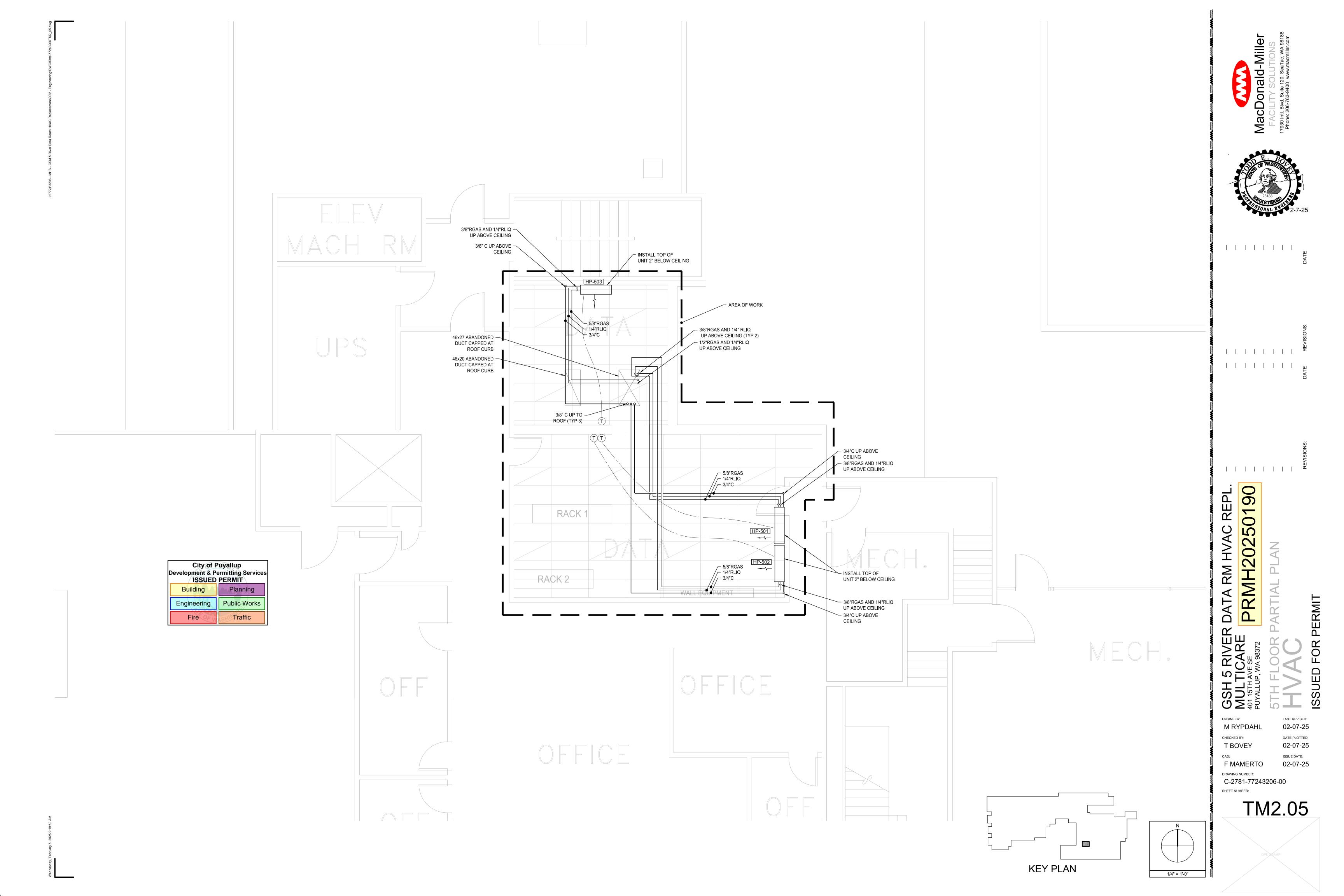
M RYPDAHL CHECKED BY: T BOVEY

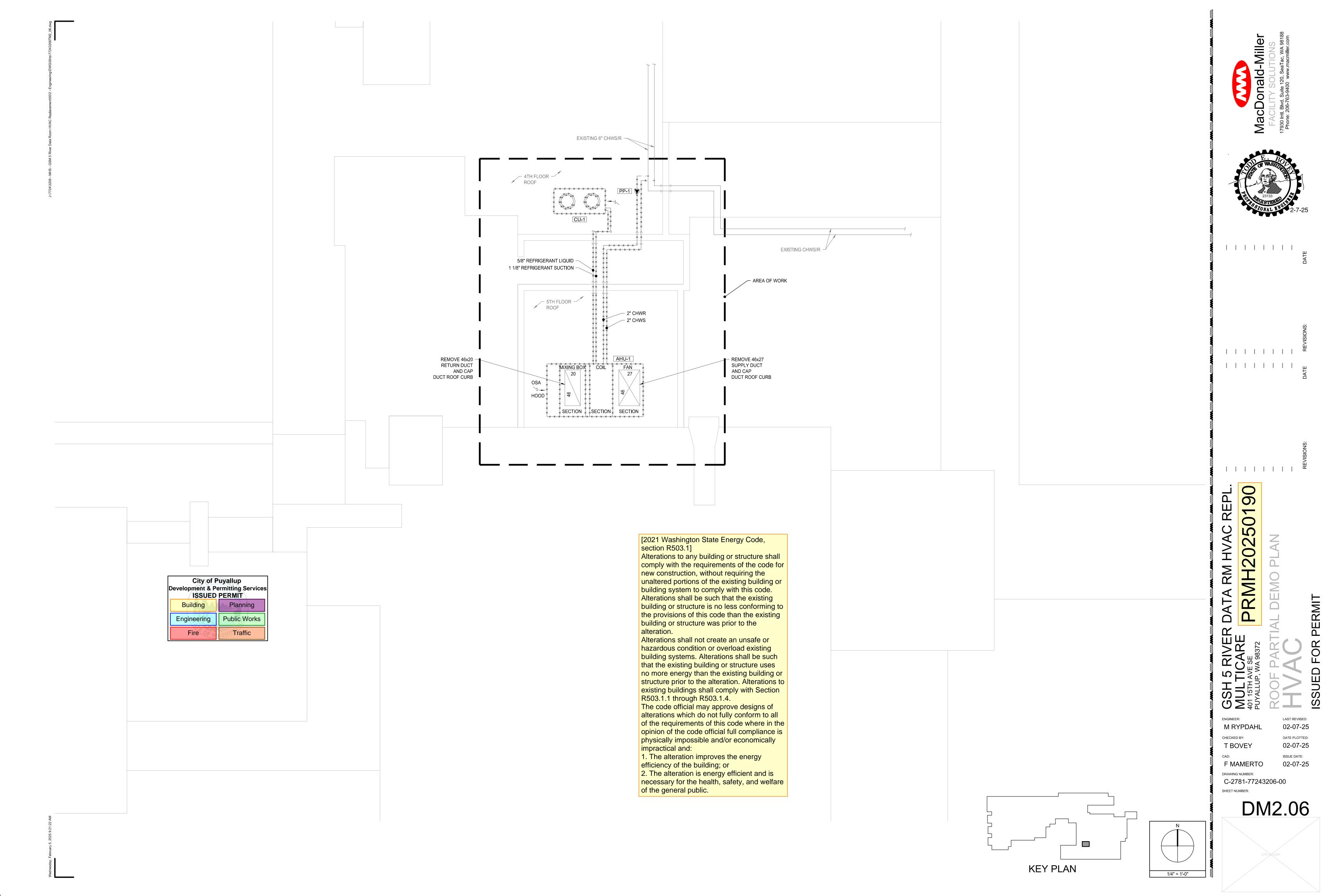
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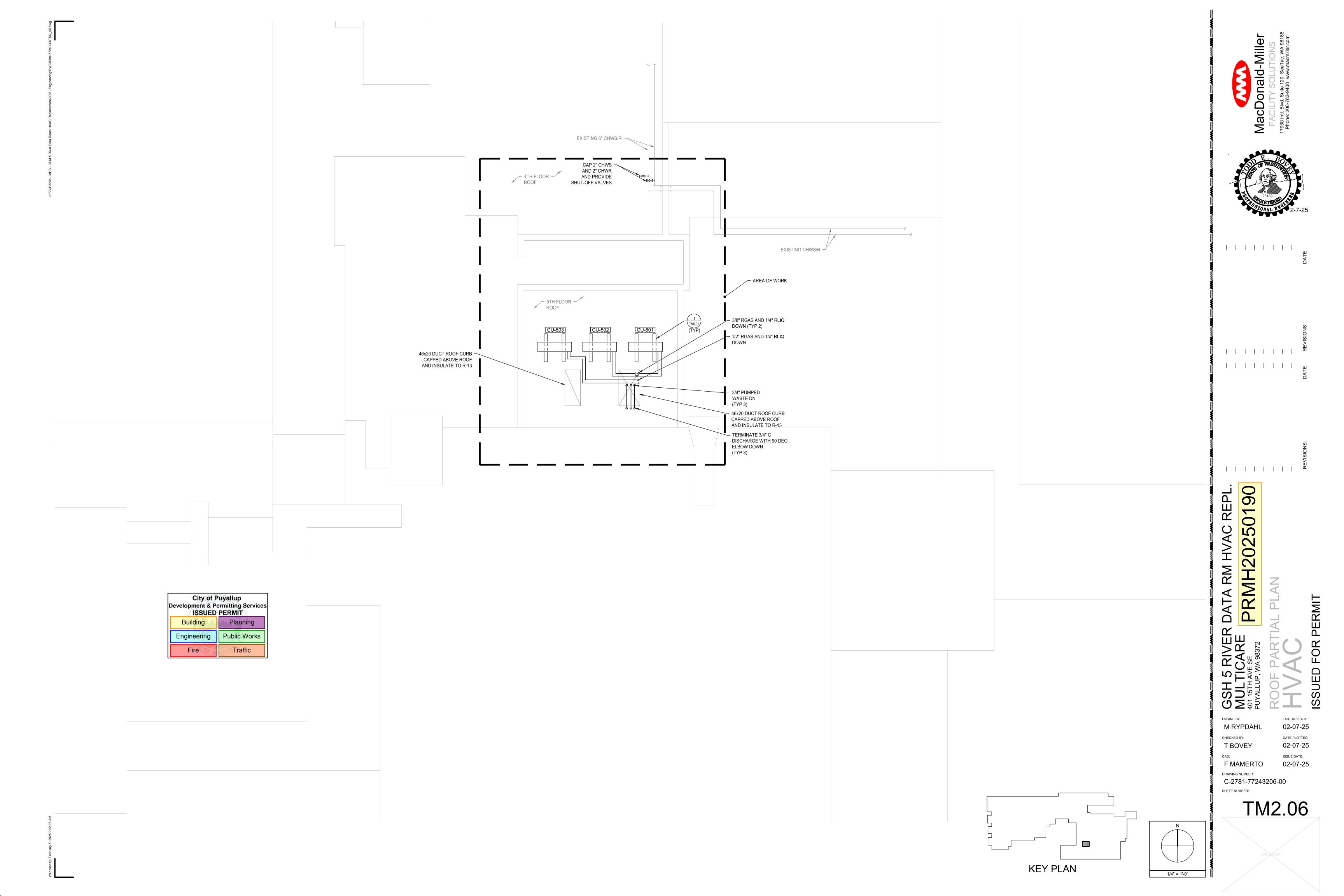
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TM0.01S

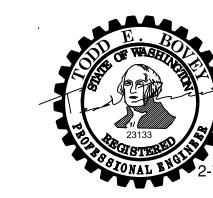












GSH 5 RIVER DATA RM HVAC REPL.
MULTICARE
401 15TH AVE SE
PUYALLUP, WA 98372

LAST REVISED:

ENGINEER: M RYPDAHL CHECKED BY: T BOVEY

02-07-25 DATE PLOTTED: 02-07-25 ISSUE DATE: 02-07-25

F MAMERTO DRAWING NUMBER:

C-2781-77243206-00 SHEET NUMBER:





