

# WASHWATER RECLAIM PUMP STATION #2 HVAC UPGRADES

AT

## JORDAN VALLEY WATER TREATMENT PLANT

15305 SOUTH 3200 WEST  
HERRIMAN, UT 84065

JVWCD PROJECT NO. 4387

PREPARED BY:




November 19, 2025  
Construction Documents


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H-501	MECHANICAL DETAILS		
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1	SYMBOL LEGEND	
	SYMBOL	DESCRIPTION
D		SUPPLY DUCT (CROSS SECTION)
		RETURN AIR OR EXHAUST DUCT (CROSS SECTION)
		ROUND DUCT (CROSS SECTION)
		RISE OR DROP IN ROUND OVAL DUCT
		DUCT SIZE, INSIDE CLEAR DIMENSION IN INCHES
		DUCT RISE
		DROP OR RISE IN SUPPLY DUCT
		TURNING VANES IN DUCT
		HAND DAMPER
		SUPPLY AIR DIRECTION OR OUTSIDE AIR
		RETURN AIR OR EXHAUST DIRECTION
		SUPPLY DIFFUSER
		RETURN AIR GRILLE
		EXHAUST GRILLE
C		BRANCH DUCT TAKE-OFF
		OPPOSED BLADE DAMPER
		PARALLEL BLADE DAMPER
		THERMOSTAT
		TEMPERATURE SENSOR
	NK.	DIFFUSER OR GRILLE NECK
	R.A.	RETURN AIR
	S.A.	SUPPLY AIR
		NEW CONNECTION
	(E)	EXISTING
		DROP IN PIPE
		RISE IN PIPE
		VALVE IN RISE
		UNION
		GAS SHUT OFF VALVE (GAS COCK)

ROOFTOP PACKAGED AIR CONDITIONING UNIT																				
SYMBOL	COOLING				ACFM	ESP IN. W.C.	MINIMUM OUTSIDE AIR CFM	HEATING			ELECTRICAL			SUPPLY FAN BHP	MCA	MOCp	MINIMUM ARI SEER2	APPROX WEIGHT LBS	CARRIER MODEL NO.	REMARKS
	ALTITUDE RATING GROSS TOT. MBH	ALTITUDE RATING GROSS SENS. MBH	ENT. AIR	LVG. AIR				HEATER KW	ENT. AIR	LVG. AIR	VOLTS	PHASE	HERTZ							
			°F db/wb	°F db/wb					°F	°F										
AC-WW	56	45	80 / 64	56 / 54	2,000	0.5	420	12.9	57	80	460	3	60	0.8	24	25	13.4	700	50FE-A06	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
NOTES: 1. FACTORY ECONOMIZER WITH BAROMETRIC RELIEF. 2. 14" HIGH MINIMUM FACTORY ROOF CURB AS REQUIRED. 3. 96°F AMBIENT AIR TEMPERATURE. 4. FURNISH UNIT WITH DISCONNECT. 5. DIRECT DRIVE EC FAN MOTORS. 6. HINGED AND LOCKING ACCESS DOORS. 7. R-454B REFRIGERANT. 8. PROVIDE SMOKE DETECTOR IN S.A. AND R.A. DUCT. 9. FACTORY-INSTALLED ELECTRIC RESISTANCE HEATER. 10. PROVIDE WITH 2" MERV 8 AIR FILTERS AND DIRTY FILTER ALARM. 11. PROVIDE WITH TEMPERATURE SENSOR AND SYSTEMVU (OR EQUAL) BACNET CONTROLLER CAPABLE OF INTEGRATING INTO THE EXISTING ALERTON BMS. REFERENCE PROJECT CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS.																				


SEE SPECIFICATION SECTION 236100



STAMP:  


REVISIONS:  

	-	-

OWNER:  
  
JORDAN VALLEY WATER  
CONSERVANCY DISTRICT

PROJECT INFO:  
WASHWATER RECLAIM PUMP STATION #2  
HVAC UPGRADES  
JORDAN VALLEY WATER CONSERVANCY DISTRICT  
15305 SOUTH 3200 WEST  
HERRIMAN, UTAH 84065

ISSUE TYPE:  
CONSTRUCTION DOCUMENTS

HEATH PROJECT No:	25076
CHECKED BY:	KDH
DRAWN BY:	GWM
DATE:	NOVEMBER 19, 2025

SHEET DESCRIPTION  
MECHANICAL  
SYMBOL LEGEND  
AND SCHEDULES

SHEET NUMBER  
H-001





STAMP:



REVISIONS:

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OWNER:



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CONSERVANCY DISTRICT

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HEATH PROJECT No:	25076
CHECKED BY:	KDH
DRAWN BY:	GWM
DATE:	NOVEMBER 19, 2025

SHEET DESCRIPTION

VICINITY PLAN

SHEET NUMBER

H-002

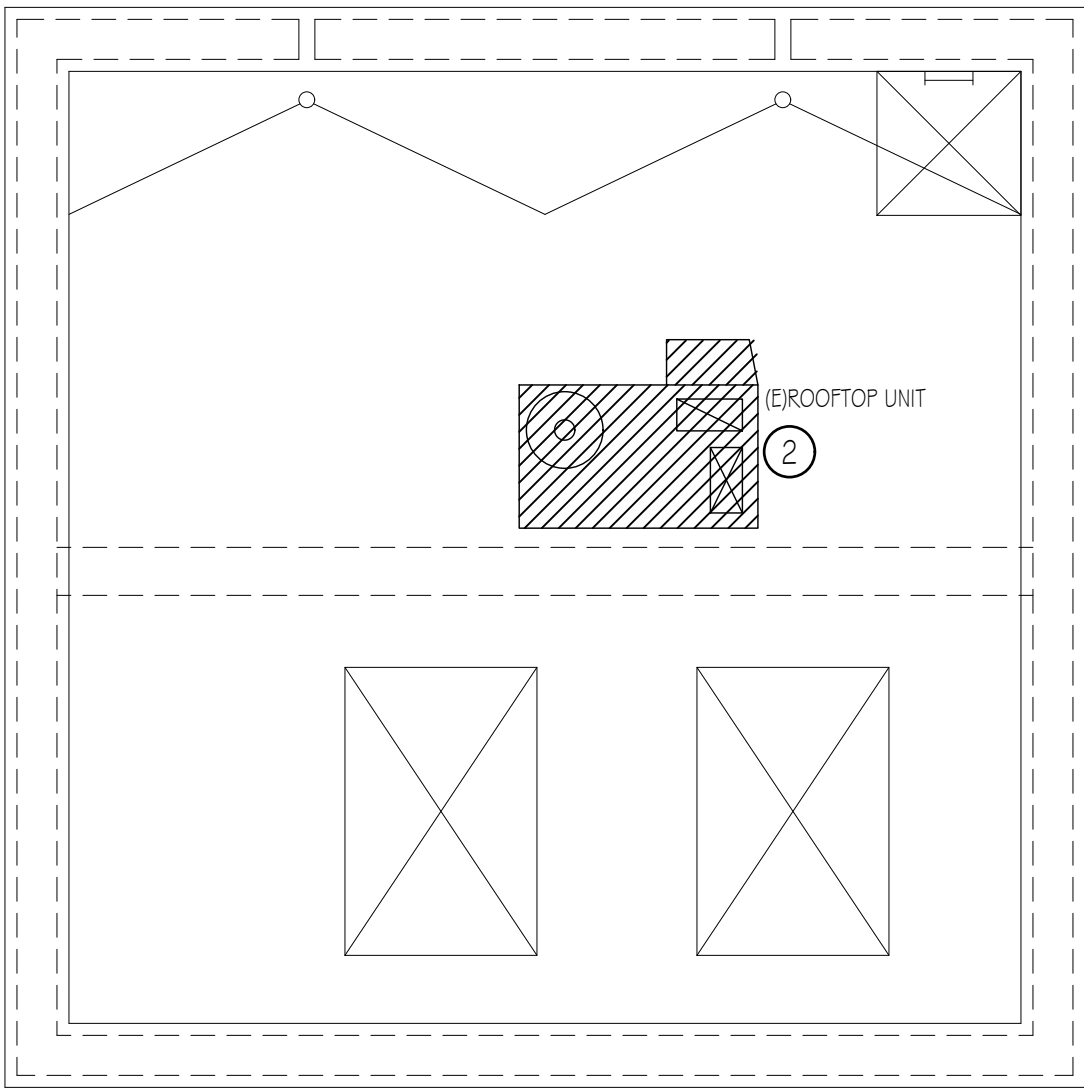


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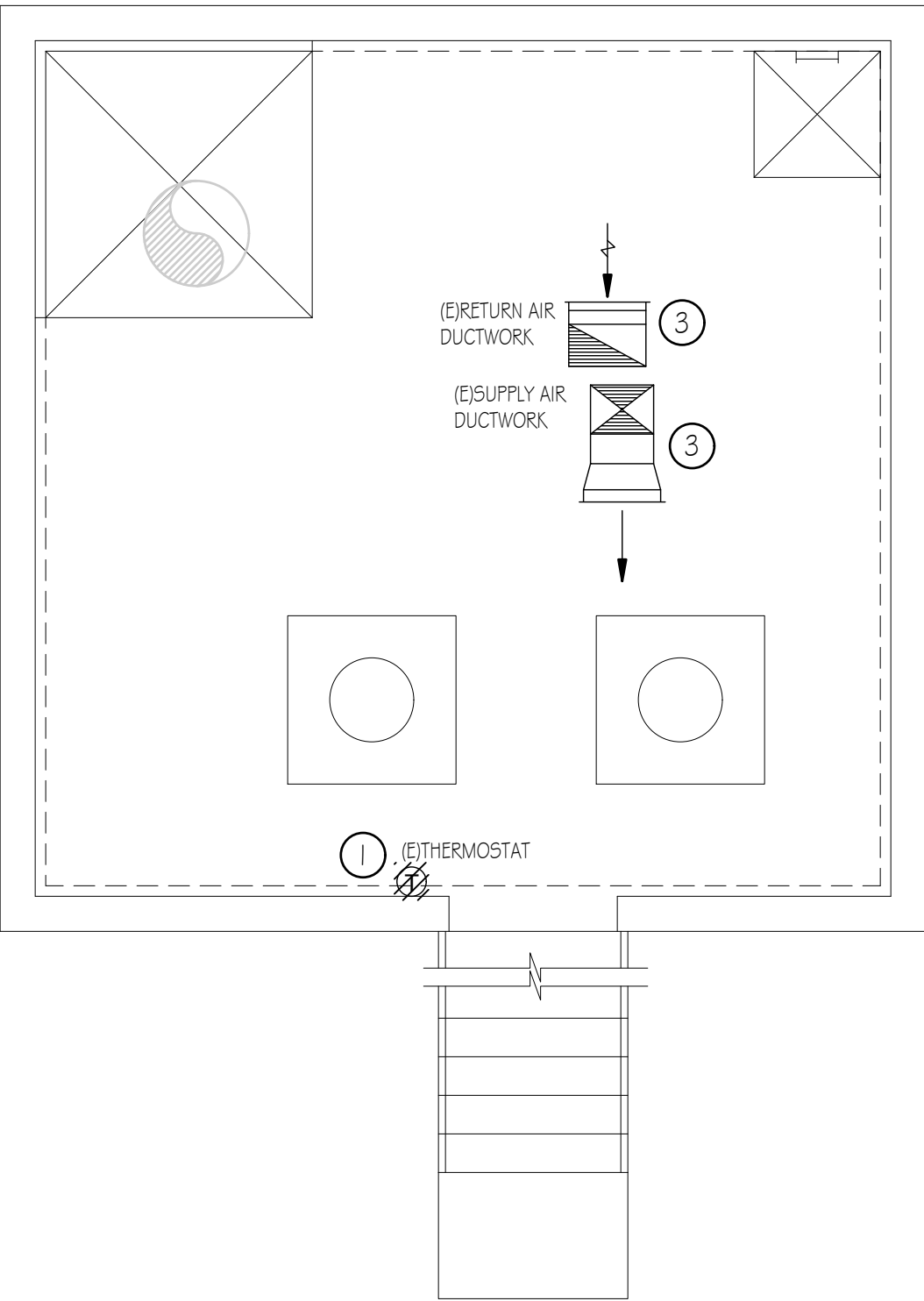
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**WASHWATER RECLAIM**  
**PUMP STATION #2 ROOF HVAC DEMOLITION PLAN**  
SCALE: 1/4"=1'-0"  
5 0 10




**WASHWATER RECLAIM**  
**PUMP STATION #2 HVAC DEMOLITION PLAN**  
SCALE: 1/4"=1'-0"  
5 0 10

## DRAWING NOTES


- 1 REMOVE EXISTING THERMOSTAT.
- 2 REMOVE EXISTING ROOFTOP UNIT AND ALL ASSOCIATED CONTROLS. COMPLETE PREPARATORY FOR NEW. FIELD VERIFY WHETHER THE EXISTING CURB IS SUITABLE FOR REUSE; REMOVE AND REPLACE ONLY IF REQUIRED TO ACCOMMODATE THE NEW UNIT. COORDINATE WITH OWNER AND ROOF MEMBRANE MANUFACTURER REGARDING ANY MODIFICATIONS TO THE ROOF SYSTEM TO ENSURE PRESERVATION OF EXISTING ROOF WARRANTY. APPROVED ROOFING CONTRACTORS: Olympus Roofing  
Joe Fackrell (801)413-9851  
S&S Roofing  
Blake Mash (801)694-3476
- 3 EXISTING SUPPLY AND RETURN AIR DUCTWORK AND ASSOCIATED GRILLES TO REMAIN, PROTECT DURING CONSTRUCTION.

## GENERAL NOTES

- A. FIELD VERIFY EXACT LOCATIONS OF EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC.
- B. DEMOLITION FLOOR PLANS HAVE BEEN CREATED USING AVAILABLE RECORD DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT ROUTING OF ALL PIPING, DUCTWORK, ETC. DURING CONSTRUCTION.
- C. DEMOLITION OF EXISTING MECHANICAL AND PLUMBING CONSTRUCTION SHALL BE TO THE EXTENT REQUIRED TO ACCOMMODATE THE RENOVATION AND THE ADDITION OF NEW WORK.
- D. ALL PIPING, DUCTWORK, ETC. TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD.
- E. PROVIDE AND INSTALL CAPS ON EXISTING MAIN DUCTWORK AND / OR PIPING BRANCH BEING REMOVED.
- F. INDICATED DEMOLITION OF PIPING AND DUCTWORK INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL OF DUCTWORK, PIPING, FITTINGS, VALVES, HANGERS, SUPPORTS, INSULATION, ETC. UNLESS NOTED OTHERWISE.
- G. FIELD VERIFY EXACT LOCATIONS OF THERMOSTATS, SENSOR AND CONTROLLING UNITS.
- H. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ANY DAMAGE CAUSED BY HIS / HER PERSONNEL TO EXISTING THAT IS TO REMAIN OR TO NEWLY INSTALLED BUILDING COMPONENTS.
- I. CONTRACTOR SHALL REPLACE ANY INSULATION THAT IS DAMAGED DURING CONSTRUCTION ON PIPE OR DUCTWORK THAT IS TO REMAIN.
- J. PRIOR TO DEMOLITION OF ANY EQUIPMENT, WORK WITH ELECTRICAL CONTRACTOR AND CONTROLS CONTRACTOR TO MAKE CERTAIN POWER AND CONTROLS ARE PROPERLY DISCONNECTED AND TERMINATED.
- K. PATCH AND SEAL ALL ABANDONED OPENINGS IN THE WALLS AND FLOORS. MATCH EXISTING SURROUNDING FINISH.




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OWNER:



JORDAN VALLEY WATER  
CONSERVANCY DISTRICT

PROJECT INFO:

WASHWATER RECLAIM PUMP STATION #2  
HVAC UPGRADES  
JORDAN VALLEY WATER CONSERVANCY DISTRICT  
15305 SOUTH 3200 WEST  
HERRIMAN, UTAH 84065

ISSUE TYPE:  
CONSTRUCTION DOCUMENTS

HEATH PROJECT No: 25076  
CHECKED BY: KDH  
DRAWN BY: GWM  
DATE: NOVEMBER 19, 2025

SHEET DESCRIPTION

WASHWATER  
RECLAIM PUMP #2  
HVAC DEMOLITION  
PLAN

SHEET NUMBER

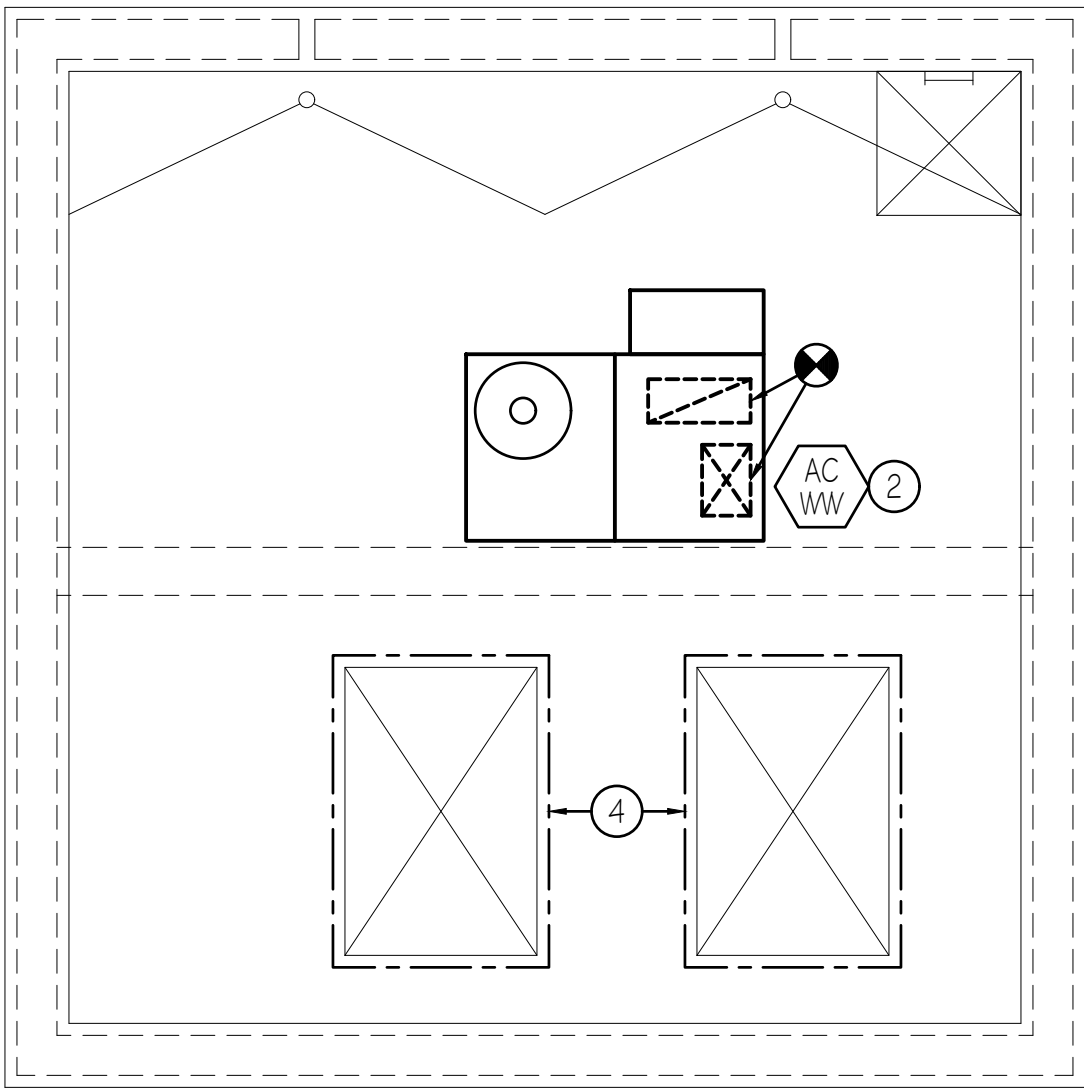
HD101

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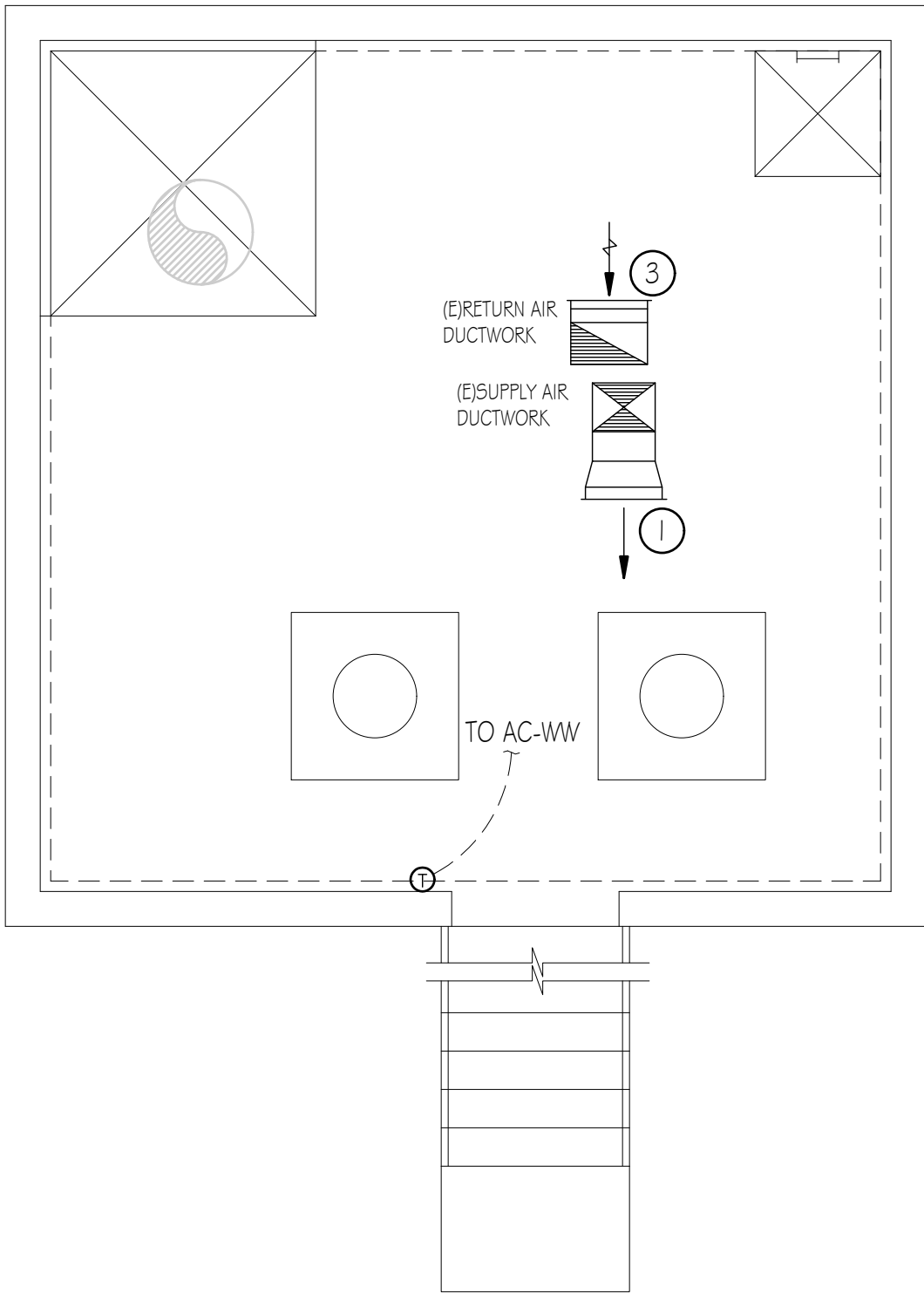
**WASHWATER RECLAIM  
PUMP STATION #2 ROOF HVAC REMODEL PLAN**

2  
H-101

SCALE: 1/4"=1'-0"

5 0 10

**N**



**WASHWATER RECLAIM  
PUMP STATION #2 HVAC REMODEL PLAN**

1  
H-101

SCALE: 1/4"=1'-0"

5 0 10

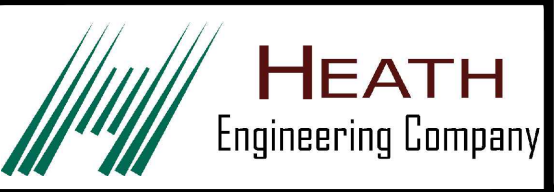
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## DRAWING NOTES

- 1 FIELD VERIFY THAT THE EXISTING SUPPLY AIR DIFFUSER IS ABLE TO PROVIDE APPROXIMATELY 2,000 CFM. NOTIFY THE OWNER AND ENGINEER IF PRESSURE DROP IS TOO HIGH.
- 2 INSTALL NEW ROOFTOP UNIT AC-WW PER MANUFACTURER'S REQUIREMENTS. TRANSITION AS REQUIRED AND CONNECT NEW SUPPLY AND RETURN OPENINGS TO THE EXISTING DUCTWORK PENETRATIONS THROUGH THE ROOF. IF A NEW CURB OR ROOF MEMBRANE MODIFICATIONS ARE REQUIRED, COORDINATE WITH THE OWNER AND ROOF MEMBRANE MANUFACTURER TO ENSURE THAT EXISTING ROOF WARRANTY IS PRESERVED. APPROVED ROOFING CONTRACTORS:  
Olympus Roofing  
Joe Fackrell (801)413-9851  
S&S Roofing  
Blake Mash (801)694-3476
- 3 FIELD VERIFY THAT THE EXISTING RETURN AIR GRILLE IS ABLE TO RETURN APPROXIMATELY 2,000 CFM. NOTIFY THE OWNER AND ENGINEER IF PRESSURE DROP IS TOO HIGH.
- 4 INSTALL NEW TREMSAFE (OR EQUAL) REMOVABLE SKYLIGHT SAFETY GUARD. FIELD VERIFY EXACT SKYLIGHT DIMENSIONS. COORDINATE GUARD TYPE WITH THE OWNER. INSTALL GUARD PER MANUFACTURER'S WRITTEN INSTRUCTIONS. COORDINATE INSTALLATION PROCEDURE WITH THE OWNER PRIOR TO INSTALLATION.

## GENERAL NOTES

- A. FIELD VERIFY THE CONDITION OF ALL EXISTING-TO-REMAIN EQUIPMENT, DUCTWORK, PIPING, ETC. NOTIFY THE OWNER AND OF ANYTHING THAT SHOULD BE REPAIRED OR REPLACED.



STAMP:



REVISIONS:

NO.	DESCRIPTION	DATE
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OWNER:



PROJECT INFO:

WASHWATER RECLAIM PUMP STATION #2  
HVAC UPGRADES  
JORDAN VALLEY WATER CONSERVANCY DISTRICT  
15305 SOUTH 3200 WEST  
HERRIMAN, UTAH 84065

ISSUE TYPE:

CONSTRUCTION DOCUMENTS

HEATH PROJECT No: 25076

CHECKED BY: KDH

DRAWN BY: GWM

DATE: NOVEMBER 19, 2025

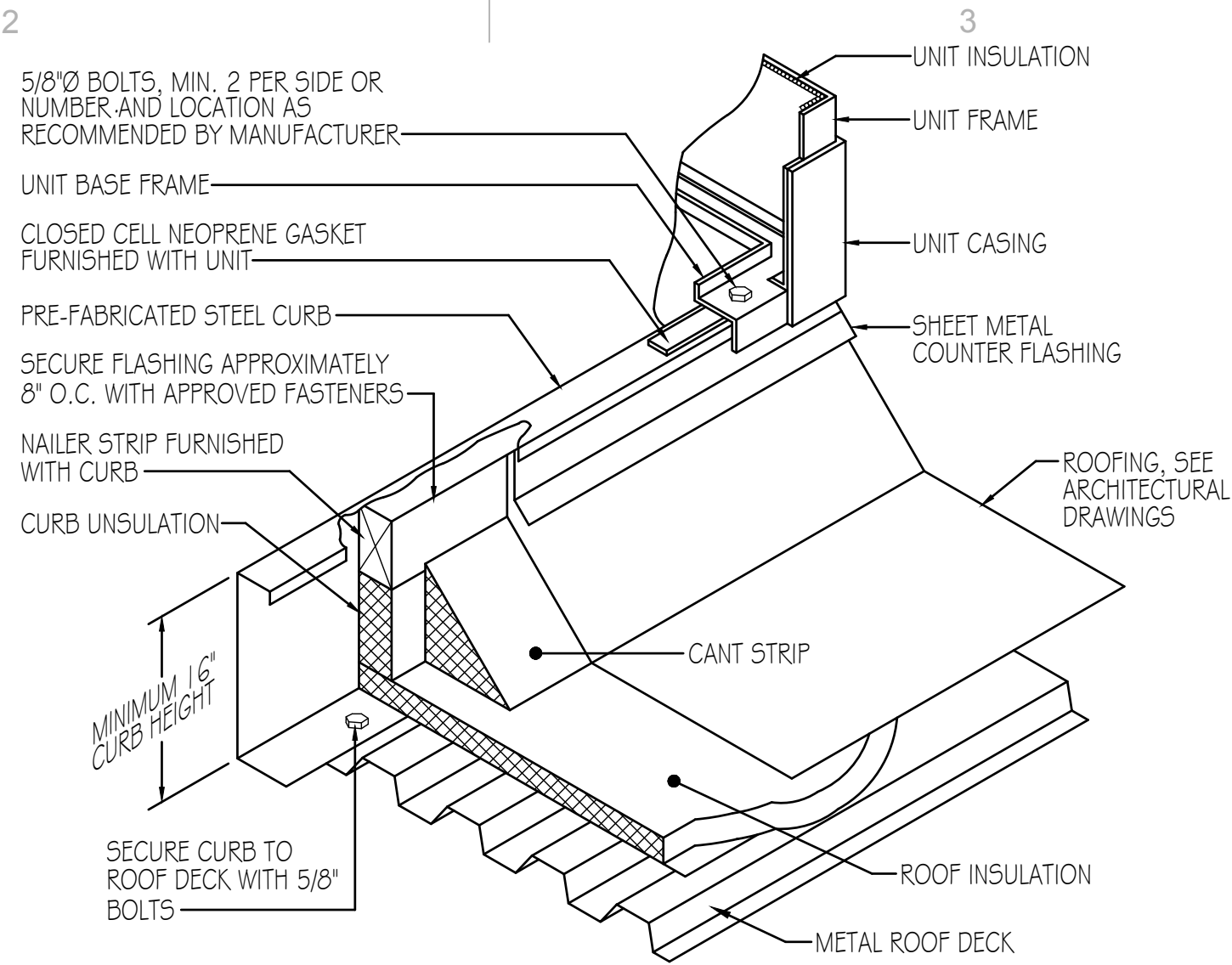
SHEET DESCRIPTION

WASHWATER  
RECLAIM PUMP #2  
HVAC REMODEL  
PLAN

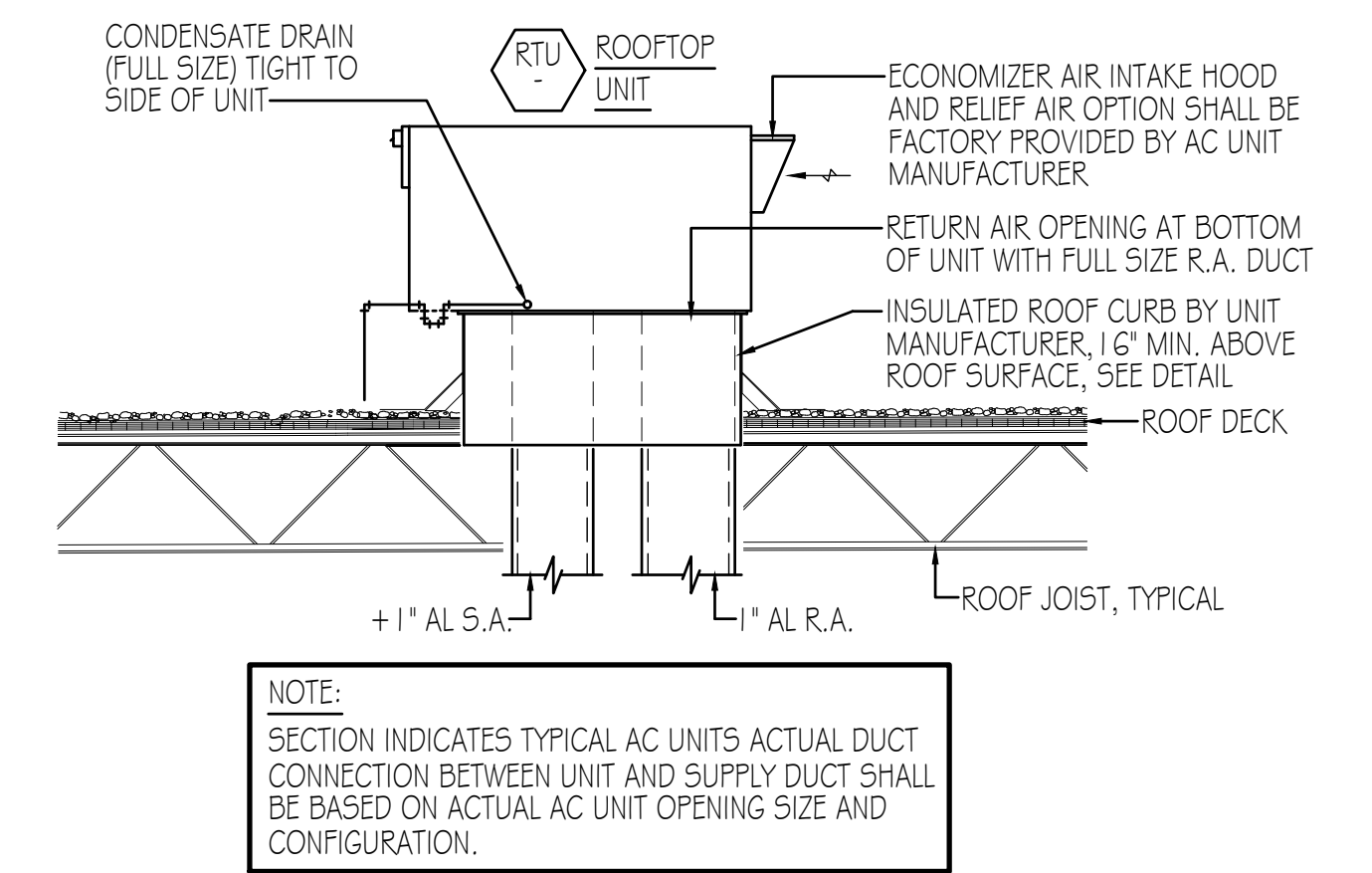
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H-101





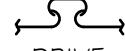

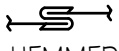
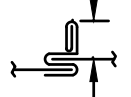
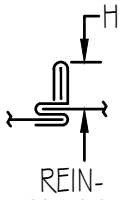
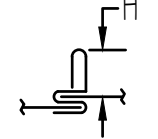
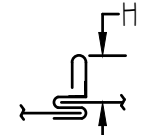


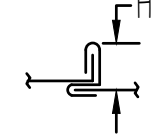
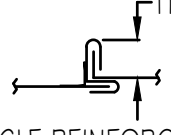
3 ROOFTOP EQUIPMENT FLASHING DETAIL  
H-501 SCALE: NONE



4 PACKAGED ROOFTOP A/C UNIT DETAIL  
H-501 SCALE: NONE

4

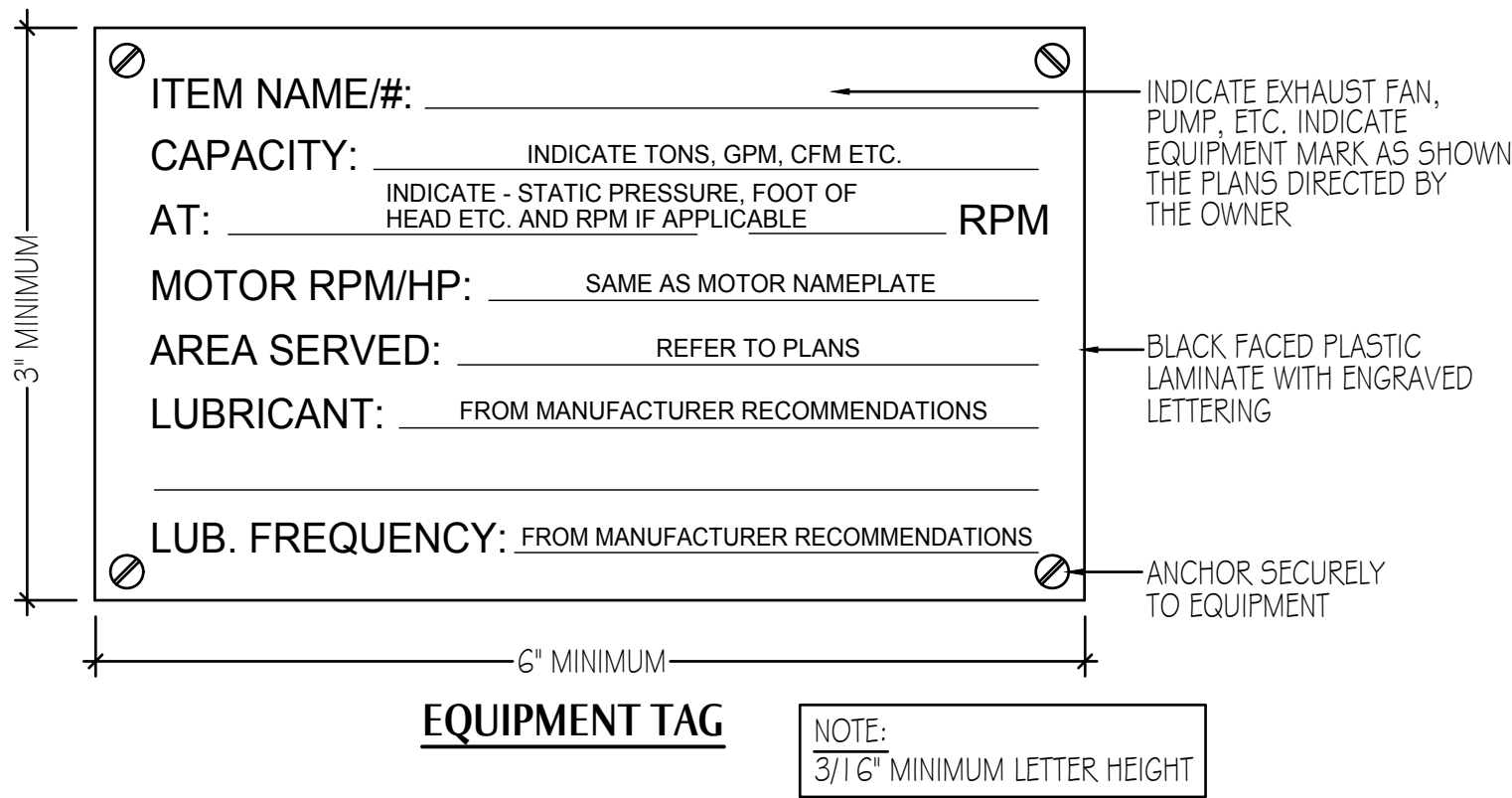
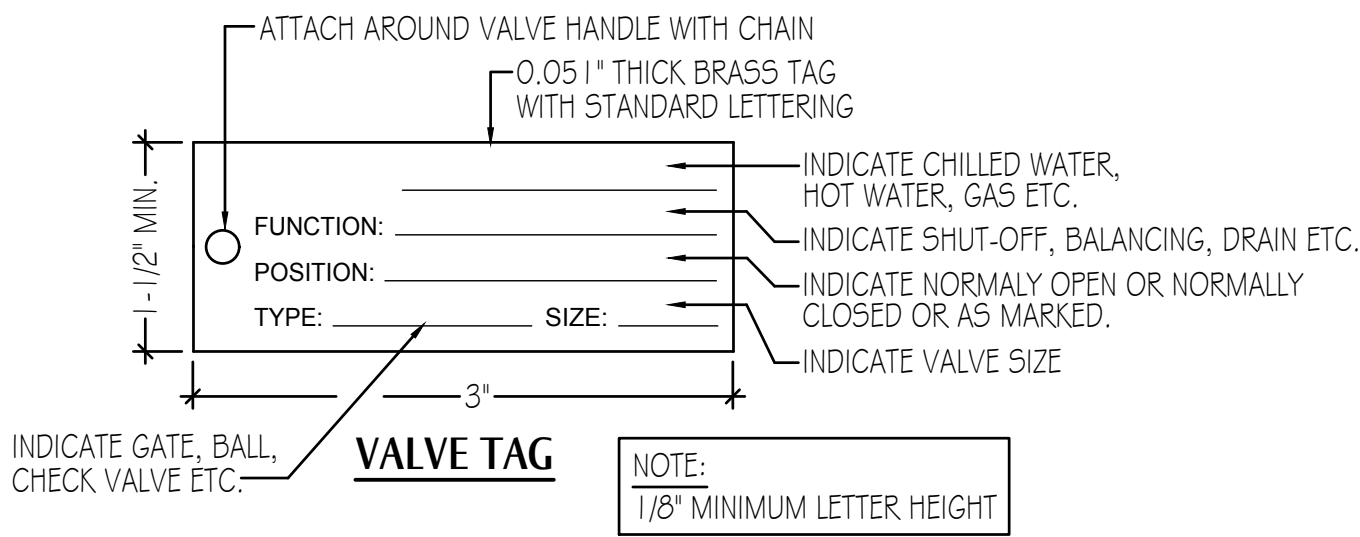
5

DIMENSION OF LONGEST SIDE, (INCHES)	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS AND / OR INTERMEDIATE REINFORCING	* TRANSVERSE REINFORCING											
			AT JOINTS											
			MIN H											
				RECOM- MENDED GAGE	RECOM- MENDED GAGE	RECOM- MENDED GAGE	RECOM- MENDED GAGE	RECOM- MENDED GAGE	REINFORCED ANGLE SIZE	REINFORCED ANGLE SIZE	RECOM- MENDED GAGE	REINFORCED ANGLE SIZE		
UP THRU 12	24	NONE REQUIRED	1"	26	26	24	24	24	24	NOT REQUIRED	NOT REQUIRED	24	NOT REQUIRED	
13-18	24	NONE REQUIRED	1"	24	24	24	24	24	24	NOT REQUIRED	NOT REQUIRED	24	NOT REQUIRED	
19-30	24	1 x 1 x 1/8 @60°	1"	-	24	24	24	24	24	NOT REQUIRED	NOT REQUIRED	24	NOT REQUIRED	
31-42	22	1 x 1 x 1/8 @60°	1"	-	-	22	22	22	22	NOT REQUIRED	NOT REQUIRED	22	NOT REQUIRED	
43-54	22	1-1/2 x 1-1/2 x 1/8 @60°	1-1/2"	-	-	22	22	22	22	1-1/2 x 1-1/2 x 1/8	NOT REQUIRED	22	NOT REQUIRED	
55-60	20	1-1/2 x 1-1/2 x 1/8 @60°	1-1/2"	-	-	-	22	22	22	1-1/2 x 1-1/2 x 1/8	NOT REQUIRED	22	NOT REQUIRED	
61-84	20	1-1/2 x 1-1/2 x 1/8 @60°	1-1/2"	-	-	-	22	22	22	1-1/2 x 1-1/2 x 1/8	1-1/2 x 1-1/2 x 1/8	22	1-1/2 x 1-1/2 x 1/8	

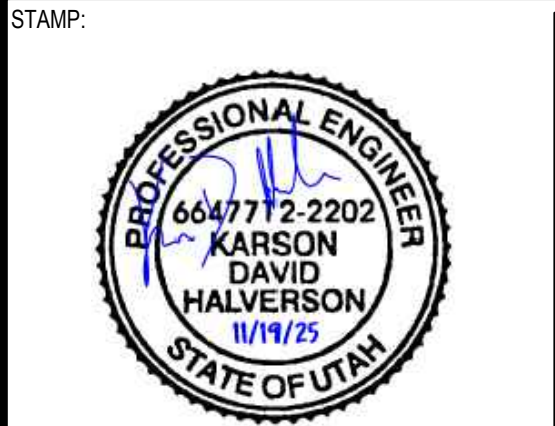
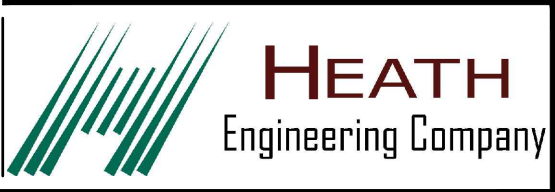
\* TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

\* TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

1 DUCT CONSTRUCTION DETAIL  
H-501 SCALE: NONE



2 IDENTIFICATION TAG DETAIL  
H-501 SCALE: NONE



REVISIONS:		
1	-	-



PROJECT INFO:

WASHWATER RECLAIM PUMP STATION #2  
HVAC UPGRADES  
JORDAN VALLEY WATER CONSERVANCY DISTRICT  
15305 SOUTH 3200 WEST  
HERRIMAN, UTAH 84065

ISSUE TYPE:	
CONSTRUCTION DOCUMENTS	
HEATH PROJECT No:	25076
CHECKED BY:	KDH
DRAWN BY:	GWM
DATE:	NOVEMBER 19, 2025

SHEET DESCRIPTION

MECHANICAL  
DETAILS

SHEET NUMBER

H-501



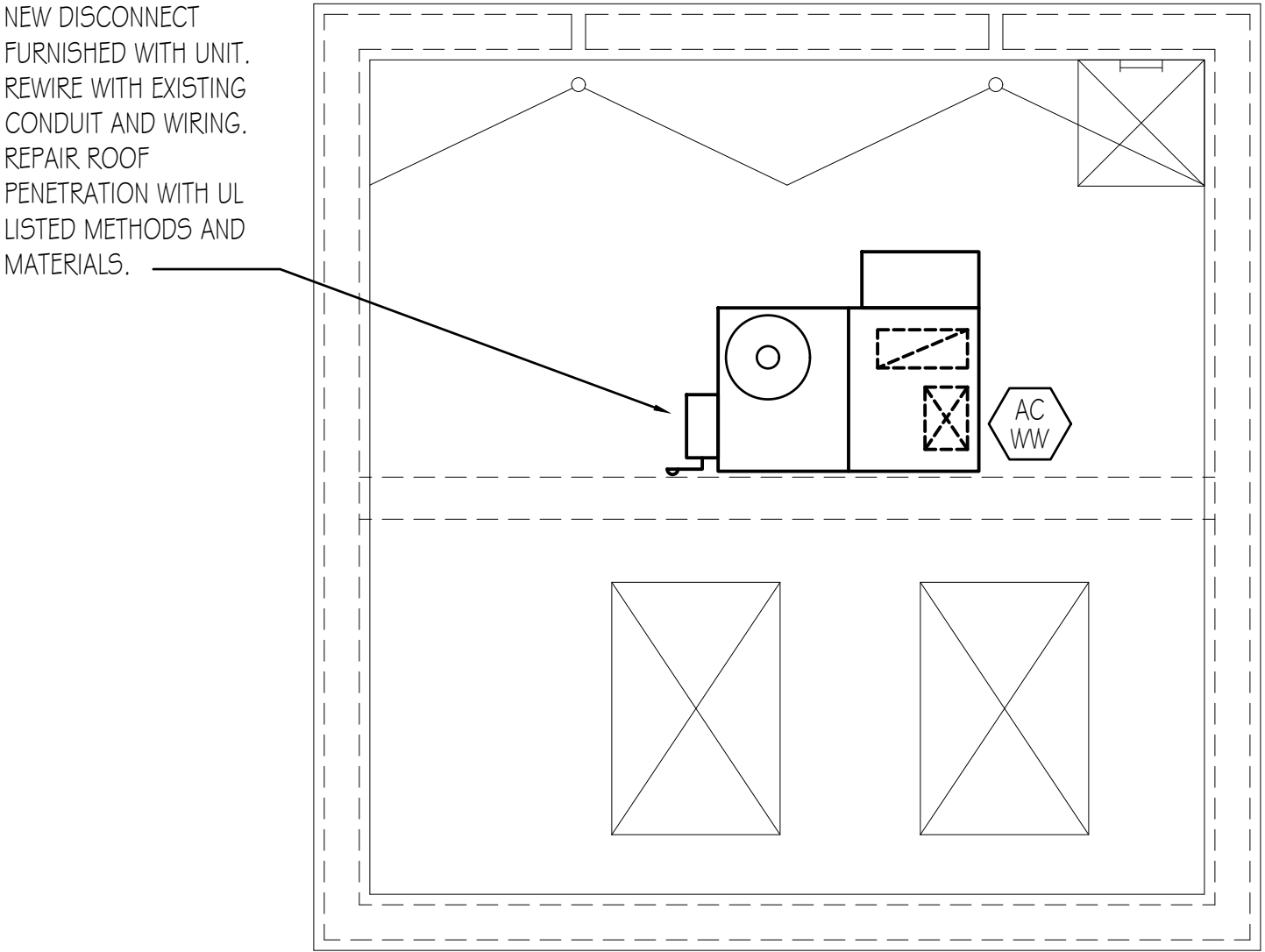
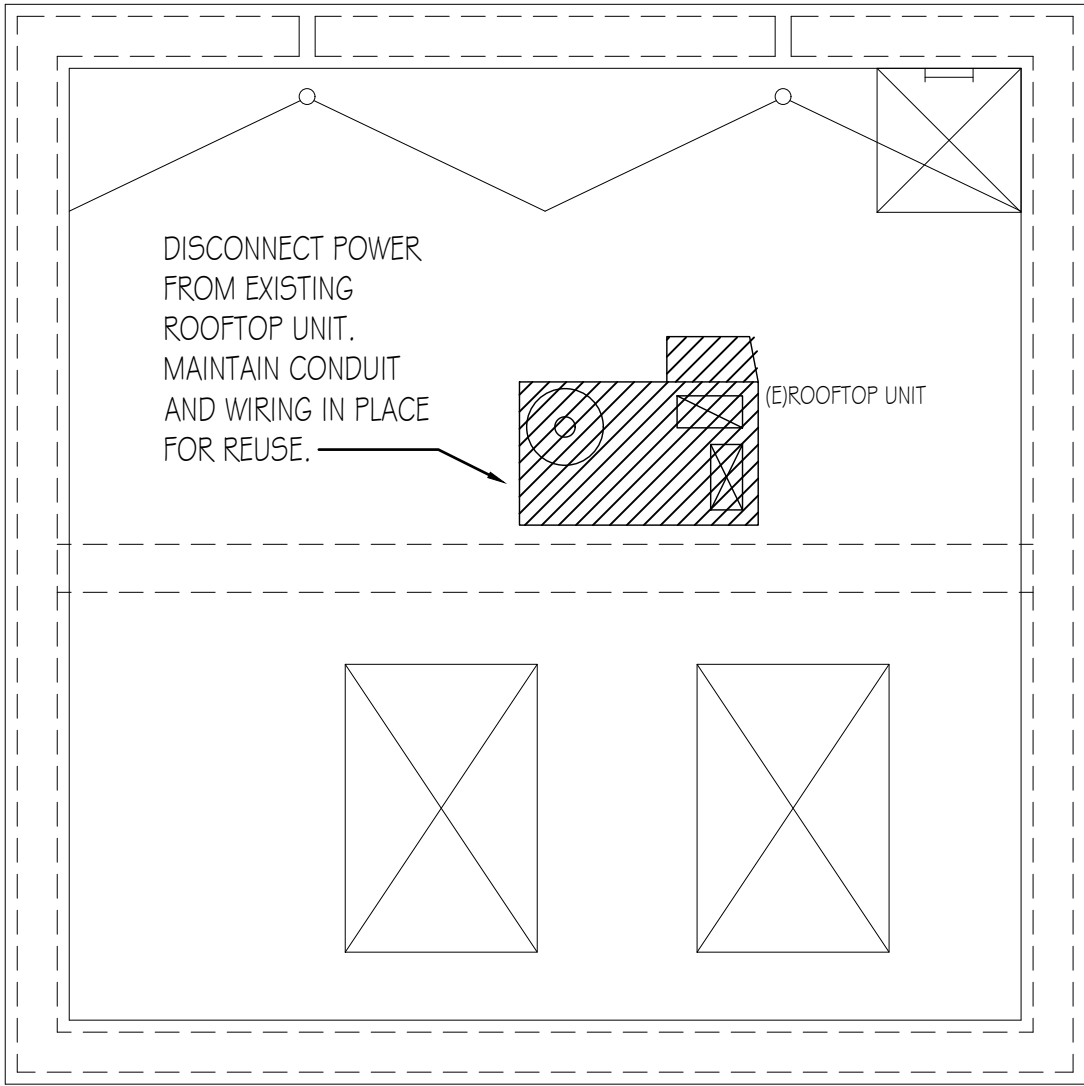


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E-101

WASHWATER RECLAIM  
PUMP STATION #2 ROOF ELECTRICAL DEMOLITION PLAN

SCALE: 1/4"= 1'-0"  
5 0 10

N

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E-101

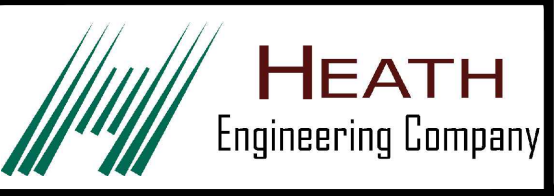
WASHWATER RECLAIM  
PUMP STATION #2 ROOF ELECTRICAL REMODEL PLAN

SCALE: 1/4"= 1'-0"  
5 0 10

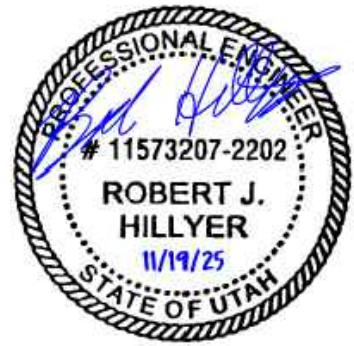
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## GENERAL NOTES

- A. FIELD VERIFY EXACT LOCATIONS OF EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC.
- B. DEMOLITION FLOOR PLANS HAVE BEEN CREATED USING AVAILABLE RECORD DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT ROUTING OF ALL PIPING, DUCTWORK, ETC. DURING CONSTRUCTION.
- C. DEMOLITION OF EXISTING CONSTRUCTION SHALL BE TO THE EXTENT REQUIRED TO ACCOMMODATE THE RENOVATION AND THE ADDITION OF NEW WORK.
- D. ALL MATERIALS TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD.
- E. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ANY DAMAGE CAUSED BY HIS / HER PERSONNEL TO EXISTING THAT IS TO REMAIN OR TO NEWLY INSTALLED BUILDING COMPONENTS.
- F. CONTRACTOR SHALL REPLACE ANY INSULATION THAT IS DAMAGED DURING CONSTRUCTION
- G. PRIOR TO DEMOLITION OF ANY EQUIPMENT WORK WITH ELECTRICAL CONTRACTOR AND CONTROLS CONTRACTOR TO MAKE CERTAIN POWER AND CONTROLS ARE PROPERLY DISCONNECTED AND TERMINATED.
- H. PATCH AND SEAL ALL ABANDONED OPENINGS IN THE WALLS AND FLOORS. MATCH EXISTING SURROUNDING FINISH.
- I. FIELD VERIFY THE CONDITION OF ALL EXISTING-TO-REMAIN EQUIPMENT, DUCTWORK, PIPING, ETC. NOTIFY THE OWNER AND ENGINEER OF ANYTHING THAT SHOULD BE REPAIRED OR REPLACED.



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RECLAIM PUMP #2  
ELECTRICAL DEMO  
& REMODEL PLAN

SHEET NUMBER

E-101