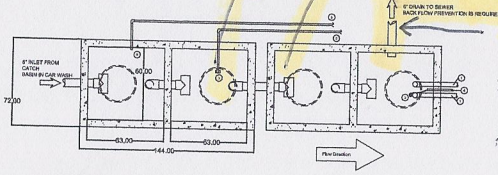
2 TANK CONFIGURATION FOR 5 MICRON PUR-WATER RECOVERY SYSTEMS

THIS IS THE SUGGESTED IDEAL CONFIGURATION FOR A 30 GPM LOW VOLUME 5 MICRON PUR-WATER SYSTEM. PUR-WATER RECOGNIZES THE FACT THAT SEPTIC TANKS ARE A LOCAL BUSINESS AND NOT ALL AREAS WILL HAVE THESE CONFIGURATIONS. THIS DRAWING IS OFFERED AS A GUIDLINE ONLY. IF YOU HAVE ANY QUESTIONS ABOUT A SIZE OR CONFIGURATION OF TANKS IN YOUR AREA, PLEASE CONTACT PUR-WATER AT 800-882-6864



① TANK WALL - INSTALL SCH 80 LINE(S) ABOVE THE WATERLINE TO ALLOW SERVICING OF EACH SUCTION LINE. TERMINATE SUCTION LINES W/ FULL FLOW FLAPPER-CHECK VALVES (PURWATER SUPPLIED) W/ SPRING LOADED FOOT VALVES

② PURWATER PROVIDED (1) LOW-LOW SAFETY LEVEL FLOAT SHOULD BE MOUNTED SO THAT IT WILL BE IN THE DOWN POSITION 6" ABOVE THE BOTTOM OF THE FLAPPER CHECK. THIS FLOAT CONTROLS THE SAFETY FUNCTION TO PROTECT THIS PUMP FROM A LOW WATER SITUATION.

③ (1) 1" SCH 40 MP SPARGER OR OZONE RECIRCULATION LINE. FOR AIR SPARGER SYSTEMS: ALLOW THE SPARGER TO BE 8-12" ABOVE THE WATER LINE. MOUNT IN THE MANWAY, IF POSSIBLE, TO ALLOW ACCESS FOR MAINTENANCE. FOR OZONE SYSTEMS: PLUMB THE LINE WITH A TEE, ON THE WET END, 24" UP FROM THE BOTTOM OF THE TANK.

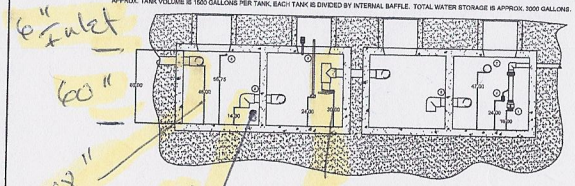
④ (1) 1" SCH 80 PVC LINE TO SERVE AS A CONDUIT FOR (#) 14 GAUGE WIRES (TWO ARE SPARES) TERMINATED IN A WATER TIGHT JUNCTION BOX ABOVE THE WATER LINE TO PURWATER RECLAIM SYSTEM FOR FLOAT CONTROLS.

⑤ (1) 3" SCH 80 UNDER/LOW LINE FROM THE BOTTOM OF THE RECLAIM SYSTEM SYSLOPE SEPARATOR. THIS LINE SHOULD BE LEVEL, OR PREFERRABLY, SLOPE FROM THE RECLAIM SYSTEM TO THE CAR WASH CATCH BASIN OR THE FIRST COMPARTMENT OF TANK 1.

⑥ USE 6" PIPE AS INTERCONNECT PIPING BETWEEN COMPARTMENTS AND BETWEEN TANKS. ELEVATION DIMENSIONS ARE TO PIPE INVERTS.

⑦ (1) 6" SCH 80 PVC PIPE TO BE ROUTED TO SEWER OR OIL WATER SEPARATOR. NOTE: BACK FLOW PREVENTION FROM THE SEWER IS REQUIRED. CONSULT WITH LOCAL AUTHORITIES ON WHETHER FURTHER TREATMENT (I.E. OIL/WATER SEPARATION IS REQUIRED TO MEET DISCHARGE PERMIT).

NOTES:
DRAWING IS FOR REFERENCE ONLY AND IS TO BE USED FOR PLUMBING REFERENCE. CONSULT WITH TANK MANUFACTURER FOR TANK LOADS.
CONSULT WITH CIVIL ENGINEER FOR SOIL PREPARATION AND TANK PLACEMENT.
SEAL ALL TANK PENETRATIONS TO PROVIDE WATER TIGHT SEAL TO PREVENT TANK LEAKAGE INTO SOIL.
RUN LINE TO SEWER TO HAVE BACK FLOW PREVENTION. CONSULT WITH LOCAL AUTHORITIES ON WHETHER FURTHER TREATMENT (I.E. OIL/WATER SEPARATOR IS REQUIRED TO MEET DISCHARGE PERMIT).
APPROX. TANK VOLUME IS 1500 GALLONS PER TANK, EACH TANK IS DIVIDED BY INTERNAL BAFFLE. TOTAL WATER STORAGE IS APPROX. 3000 GALLONS.



PLUMBING SYMBOLS

SS	SANITARY SEWER		UNION	FS	FLOOR SINK
GW	GREASE WASTE		ELBOW - TURNED DOWN	FCO	FLOOR CLEANOUT
	DOMESTIC COLD WATER		ELBOW - TURNED UP	YCO	YARD CLEANOUT
	DOMESTIC HOT WATER		TEE - TURNED DOWN	FPWH	FREEZE PROOF WALL HYDRANT
RM	RECLAIM WATER LINE		TEE - TURNED UP	HB	HOSE BIBB
RO	R.O. WATER LINE		BALL VALVE	WCO	WALL CLEANOUT
AIR	AIR LINE		SHUT-OFF VALVE IN VERTICAL LINE		GAS PRESSURE REGULATOR
G	NATURAL GAS		BACKFLOW PREVENTER		GAS COCK
	PLUMBING VENT	FD	FLOOR DRAIN		WATER METER

SPECIALTY PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	MANUFACTURER	MODEL	DESCRIPTION	NOTES
WHA	WATER HAMMER ARRESTOR	SIOUX CHIEF	650A	CONFORM TO PDI WH-201, ASSE 1010; TEMP TO 250°F, MAX 350 PSIG WORKING PRESSURE	1
--	TRAP PRIMER	SIOUX CHIEF	695	BRONZE PRIMER VALVE WITH REMOVABLE OPERATING PARTS INTEGRAL VACUUM BREAKER, AND GASKETED ACCESS COVER.	
--	REDUCED PRESSURE BACKFLOW PREVENTER	WILKINS	975XL	BRONZE BODY, WITH SHUT-OFF VALVES, Y STRAINER, AND TEST COCKS.	
FD	FLOOR DRAIN	JOSAM	3000-5A-59	CAST IRON FLOOR DRAIN, TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEILICO INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET AND ADJUSTABLE SATIN NIKALOY ROUND SUPERAFLO STRAINER. (OBSERVE TWO PIPE SIZE CHANGES OF DRAINS WHERE FLOOR DRAIN NOT DIRECTLY VENTED.) INCLUDE #3825-60 PRIMER VALVE (OR EQUIVALENT) TO TIE TO COLDWATER LINE BELOW SINK.	
HD	HUB DRAIN	---	---	SIZE SPECIFIED ON DRAWINGS	
FS	FLOOR SINK	JOSAM	49323A-LP-3	CAST IRON 12" X 12" FLOOR SINK WITH 3" DRAIN CONNECTION. CAST IRON 1/2 GRATE AND ALUMINUM INTERNAL DOME STAINER.	
FCO	FLOOR CLEANOUT	JOSAM	55000 & 55000-1	ADJUSTABLE CAST IRON FLOOR CLEAN-OUT WITH INSIDE CAULK OUTLET, COATED CAST IRON INTERNAL CLEAN-OUT WITH LEAD SEAL, SATIN TOP, BRASS RIM, AND BRASS SCORIATED COVER PLATE FOR LIGHT TRAFFIC, SECURED TO PLUG BY COUNTERSUNK SCREW FOR INSTALLATION FLUSH WITH FINISHED FLOOR.	2

NOTES:
1. SIZE PER MANUFACTURER'S RECOMMENDATION.
2. CLEANOUT SHALL BE SAME SIZE AS PIPE BEING SERVED.
3. THIS SCHEDULE IS COMPREHENSIVE. ALL MARKS MAY OR MAY NOT BE USED ON PLANS.

GENERAL NOTES

A. CONTRACTOR SHALL VERIFY THAT ALL PIPING TYPES AND SIZES MEET LOCAL CODE.

B. WHEN DEEP FROST LOCATIONS ARE ENCOUNTERED, ROUTE SANITARY LINES UNDER BUILDING AS MUCH AS POSSIBLE.

C. PROVIDE PVC SLEEVE FOR ALL COLD/HOT WATER FLOOR PIPE PENETRATIONS. MAKE SLEEVE LARGE ENOUGH FOR INSULATION. SEAL WITH GRAY MASTIC AND ENSURE OF NO WATER PENETRATIONS.

D. FURNISH AND INSTALL WATTS 8A VACUUM BREAKER ON ANY THREADED EXTERIOR OR INTERIOR FAUCETS.

E. ALL WATER SHUT OFF VALVES SHALL BE "BALL LOCK" TYPE. PROVIDE SHUT-OFF VALVES AT EACH TERMINATION POINT OF ASSOCIATED EQUIPMENT.

F. VERIFY GRADE OF INCOMING SANITARY SEWER BEFORE INSTALLATION OF SYSTEM.

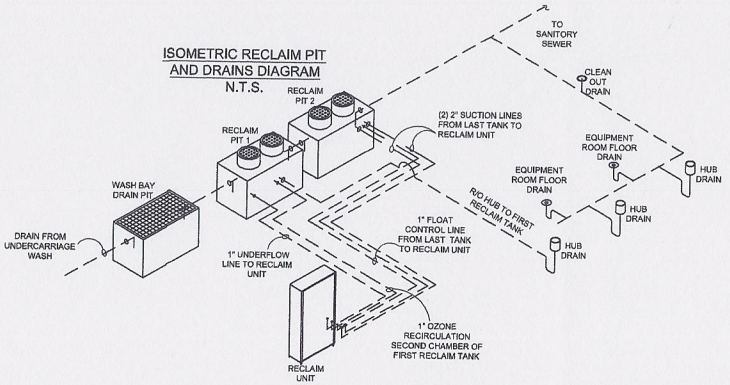
G. PROVIDE TRAP PRIMERS AND 1/2" COPPER TUBING CONNECTION TO ALL FLOOR DRAINS.

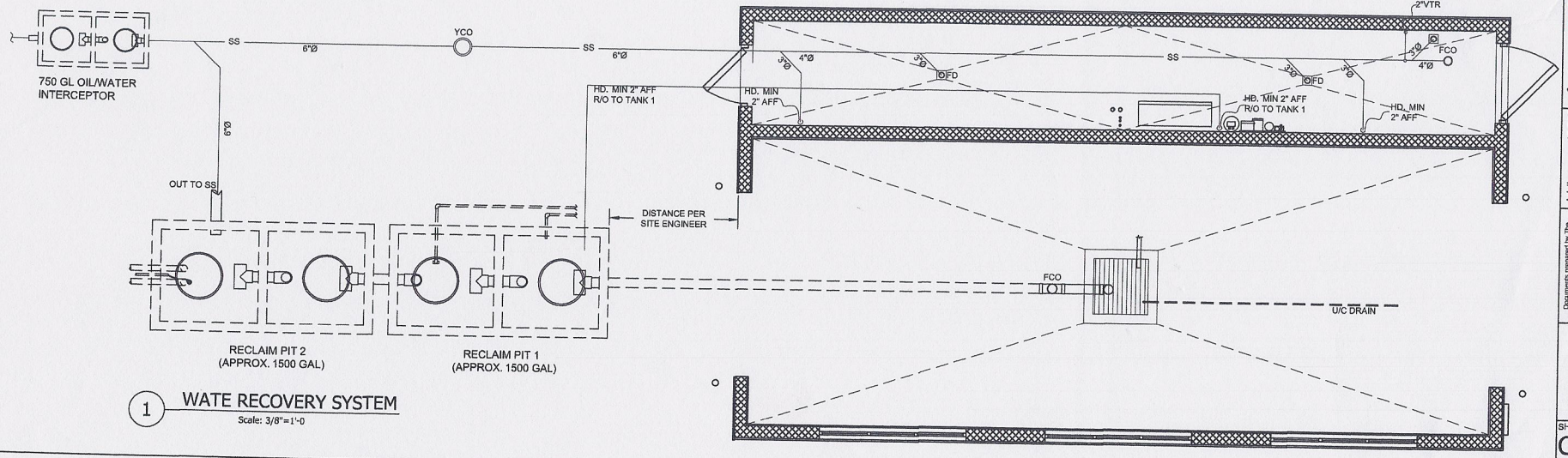
H. PITCH WASTE LINES AT 1/4" PER FOOT MINIMUM.

I. INSTALL WATER PIPING ON INSIDE OF EXTERIOR WALL INSULATION TO PREVENT FREEZING.

ISOMETRIC RECLAIM PIT AND DRAINS DIAGRAM

N.T.S.





1 WATE RECOVERY SYSTEM
Scale: 3/8"=1'-0

Rev. #	Date	Description
1	05.10.16	PEER REVIEW COMMENTS
2	05.25.16	PEER REVIEW COMMENTS

Proto 10/08/14

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7276 LEBANON ROAD
FRISCO, TEXAS 75034

DRAIN, WASTE, AND VENT PLAN AND SCHEDULES

THE DIMENSION GROUP
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Job#:	15-714		
Scale:	AS NOTED	Drawn By:	JG
Date:	04/22/16	Checked By:	AH

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05/25/2016

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