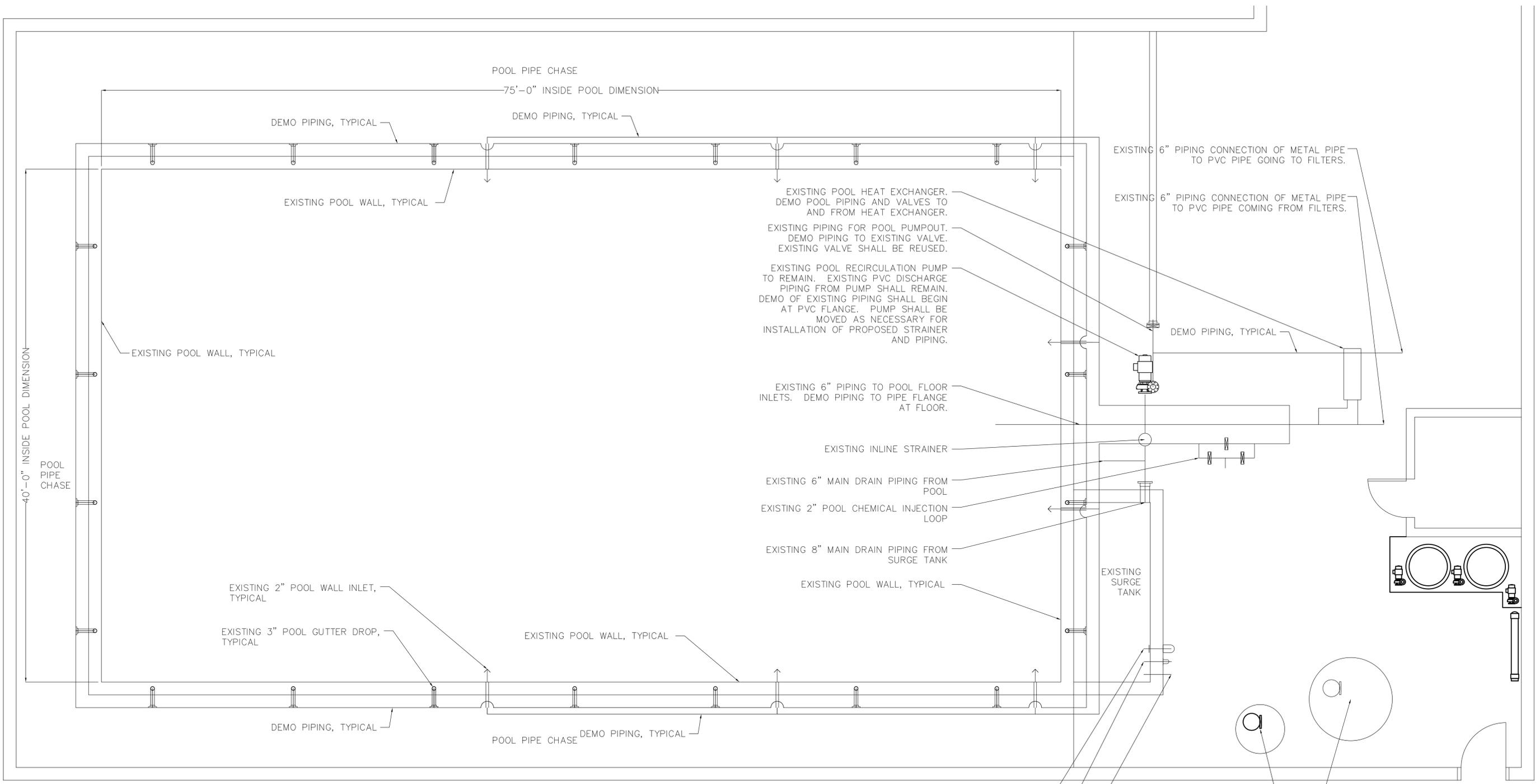


PLOT SCALE: 22"x34" SHEET 1/4" = 1'-0"
 PLOT SCALE: 11"x17" SHEET 1/8" = 1'-0"

REVISED: 1/18/20

FILE NAME: UWMC PL1



POOL PIPING DEMO NOTES

1. POOL CONTRACTOR SHALL DEMO ALL EXISTING METALLIC POOL PIPING. THIS SHALL INCLUDE VALVES, STRAINERS, AND PIPING BETWEEN SURGE TANK AND RECIRCULATION PUMP, PIPING FROM MAIN DRAIN, PIPING FROM RECIRCULATION PUMP TO POOL FILTERS, PIPING FROM RECIRCULATION PUMP TO POOL PUMP LINE AS SHOWN, PIPING FROM FILTERS THROUGH ALL EXISTING POOL INLET PIPING, AND ALL GUTTER PIPING FROM POOL TO SURGE TANK.
2. DEMO FOR POOL GUTTER DROP AND POOL WALL INLETS SHALL BE WITHIN 12" OF PIPE PENETRATION INTO THE POOL CONCRETE. CONTRACTOR SHALL CUT PIPE WITH STRAIGHT CLEAN CUT TO ALLOW WELDING OF NEW FLANGE TO PIPE.
3. DEMO ALL EXISTING PIPE HANGERS AND RELATED HARDWARE FOR ALL PIPING BEING REMOVED.
4. DEMO EXISTING MAIN DRAIN PIPING FROM FLANGE AT FLOOR TO PUMP SUCTION LINE.
5. DEMO EXISTING PIPING FROM SURGE TANK TO PUMP SUCTION FROM FLANGE AT SURGE TANK TO FLANGE ON POOL PUMP, INCLUDES DEMO OF VALVES AND STRAINER.
6. DEMO EXISTING FLOW METERS FROM PIPING AND RELATED EQUIPMENT ON SURGE TANK WALL.
7. SEE PLUMBING DEMO PLANS FOR ADDITIONAL ITEMS BEING REMOVED.

1 PL1 POOL PIPING DEMO PLAN

Revisions:	Job No: 190701	Designed: JAD	Date: 7/2/19
	Scale: 1/4" = 1'-0"	Drawn: JAD	Date: 7/2/19
	Date: 1/21/20	Checked: JAD	Date: 1/21/20

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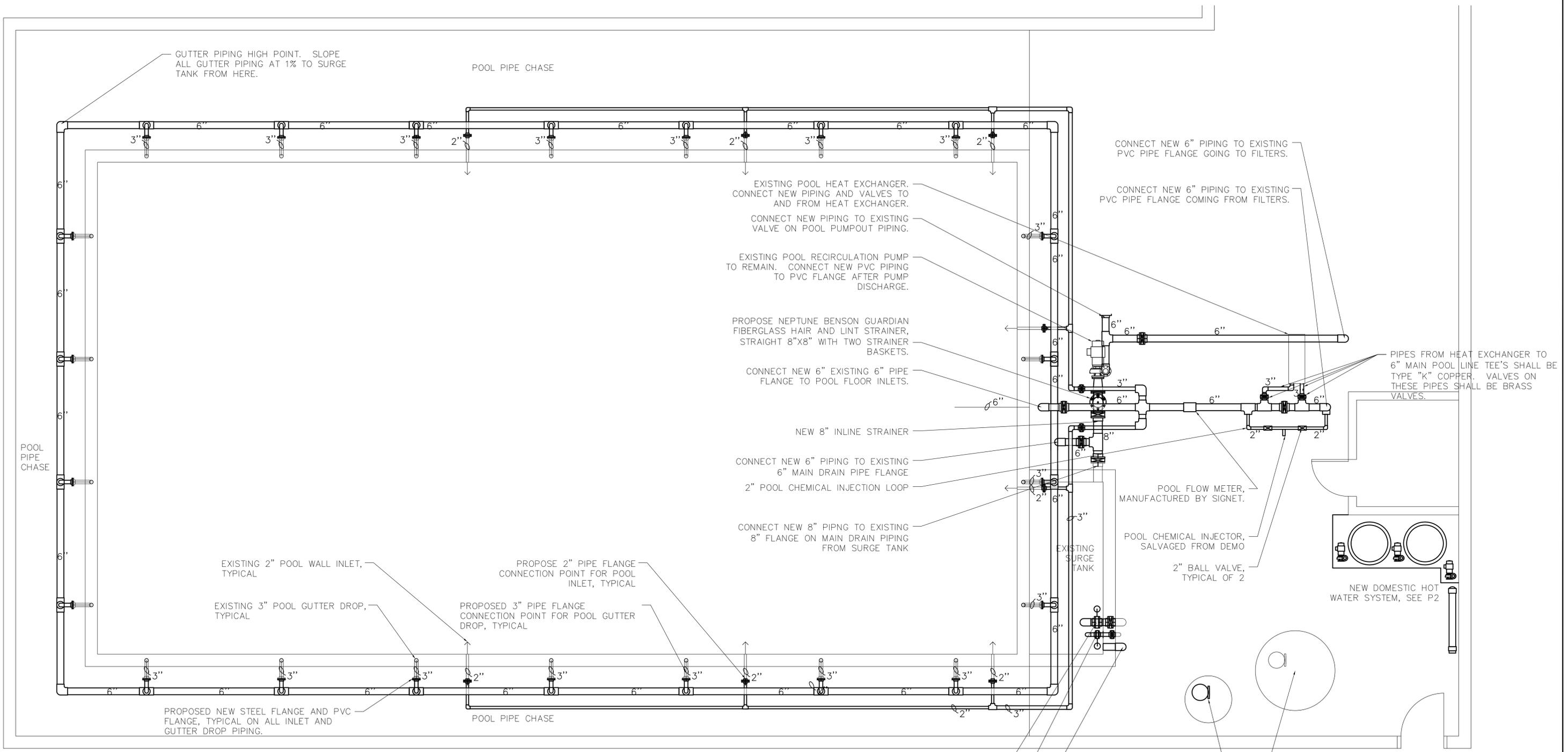
UNIVERSITY OF WISCONSIN STEVENS POINT - MARATHON COUNTY
 FIELDHOUSE PLUMBING AND POOL PIPING REPLACEMENT
 600 SOUTH 7TH AVENUE WEST
 WAUSAU, WISCONSIN 54401

POOL PIPING DEMO PLAN
 PL1

PLOT SCALE: 27"x34" SHEET 1/4" = 1'-0"
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REVISED: 1/18/20

FILE NAME: UWMC PL1



POOL PIPING NOTES

1. PROVIDE NEW METALLIC FLANGES TO EXISTING INLET AND GUTTER DROP PIPING. PROVIDE NEW PVC PIPING FOR ALL INLETS IN AND GUTTER DROPS. SLOPE ALL GUTTER PIPING AT 1% TO SURGE TANK. SLOPE INLET PIPING TO LOW POINTS AND PROVIDE 1" DRAIN VALVES AT LOW POINTS.
2. PROVIDE ALL PIPING WITH NEW PIPE HANGERS AND SUPPORTS. ALL MATERIALS SHALL BE NON-CORROSIVE.
3. SURGE TANK AUTOFILL SYSTEMS SHALL BE SET UP WITH THE 3" LINE FILLING FIRST AND THE 6" AS BACKUP.
4. PROVIDE NEW FLOW METERS ON ALL THREE INLET PIPES GOING TO POOL. SEE SPECIFICATIONS.
5. NOTE THAT POOL PIPE CHASE VARIES IN HEIGHT. CONTRACTOR SHALL VERIFY HEIGHTS AT PRE-BID WALK THROUGH.
6. CONTRACTOR SHALL RECONNECT EXISTING PVC GUTTER DROP PIPE IN SURGE TANK TO NEW GUTTER DROP POOL PERIMETER PIPING.

1
 PL2
POOL PIPING PLAN

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POOL PIPING PLAN
 PL2

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REVISED: 1/21/20

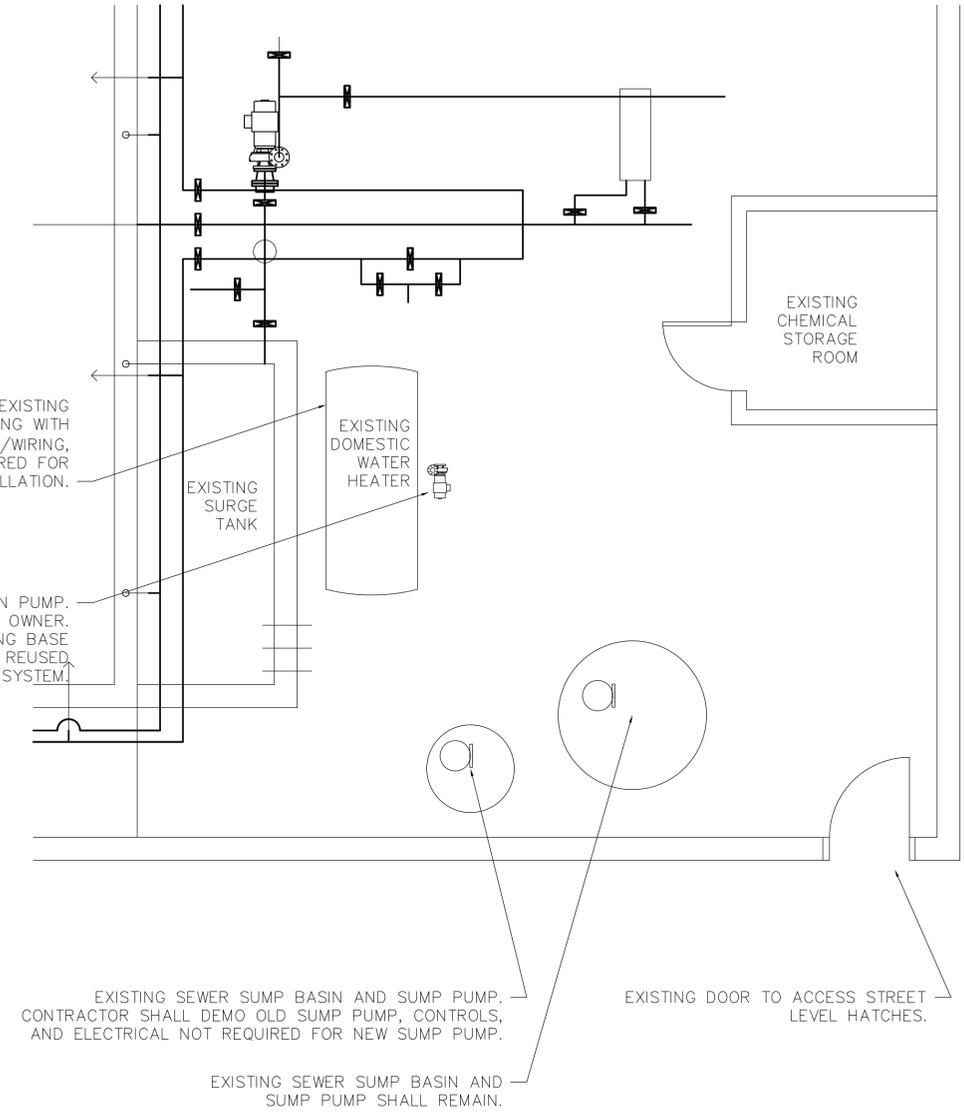
FILE NAME: UWMC P1

PLUMBING DEMO NOTES

1. OWNER SHALL HAVE ALL EXISTING INSULATION ON WORK BEING REPLACED TESTED FOR ASBESTOS. ALL ASBESTOS SHALL BE REMOVED BY OWNERS ABATEMENT COMPANY.
2. CONTRACTOR SHALL NOT DEMO EXISTING DOMESTIC WATER HEATING SYSTEM UNTIL NEW SYSTEM IS COMPLETELY INSTALLED AND OPERATIONAL. CONTRACTOR SHALL DISCONNECT EXISTING SYSTEM AND COMPLETE FINAL CONNECTIONS FOR NEW SYSTEM ON A DESIGNATED WEEKEND AGREED TO BY OWNER.
3. CONTRACTOR SHALL DEMO EXISTING DOMESTIC HOT WATER SYSTEM WITH ALL RELATED UNUSED PIPING FOR DOMESTIC WATER AND BUILDING HOT WATER SYSTEM NOT USED FOR NEW SYSTEM.
4. CONTRACTOR SHALL NOT DEMO EXISTING SUMP PUMP UNTIL NEW SUMP PUMP IS READY FOR INSTALLATION.
5. ALL ELECTRICAL WORK REQUIRED FOR THE DEMO AND INSTALLATION OF THE NEW SYSTEM SHALL BE BY THIS CONTRACTOR.
6. SEE PL1 FOR POOL RELATED DEMOLITION WORK.

EXISTING DOMESTIC WATER HEATER. REMOVE EXISTING TANK WITH INTERNAL HEAT EXCHANGER ALONG WITH ALL TANK BASES, EXISTING CONTROLS/WIRING, INSULATION, AND RELATED PIPING NOT REQUIRED FOR NEW INSTALLATION.

EXISTING DOMESTIC WATER HEATER RECIRCULATION PUMP. PUMP SHALL BE SALVAGED AND GIVEN TO OWNER. CONTRACTOR SHALL DEMO PUMP HOUSEKEEPING BASE AND ALL RELATED ELECTRICAL THAT CANNOT REUSED WITH NEW SYSTEM.



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P1

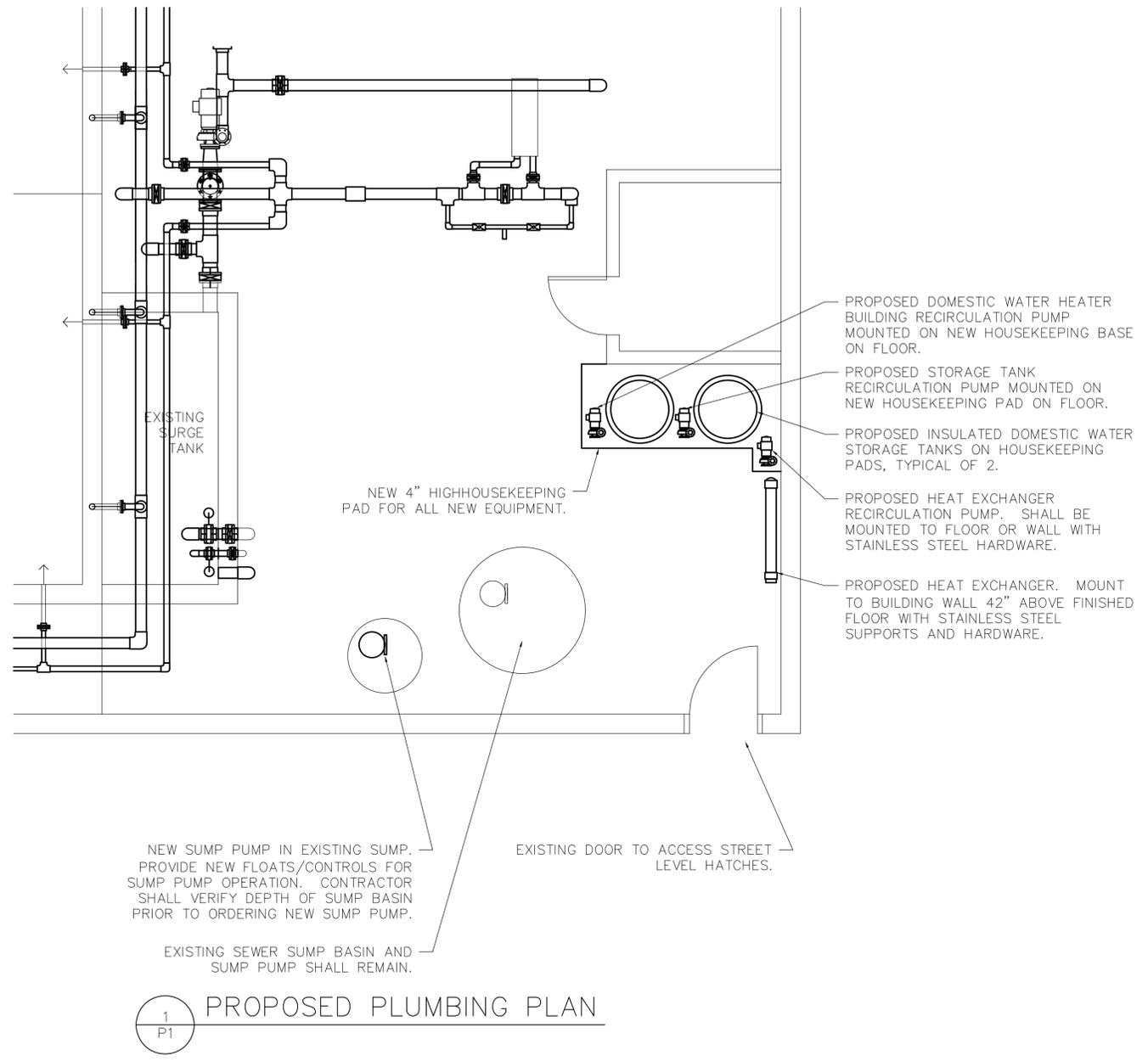
PLUMBING DEMO PLAN

Revisions:	Job No: 190701	Designed: JAD	Date: 7/2/19	Aquatic Design Solutions, LLC 17921 Fulda Trail Lakeville, MN 55044 Phone: (952) 356-6047	UNIVERSITY OF WISCONSIN STEVENS POINT - MARATHON COUNTY FIELDHOUSE PLUMBING AND POOL PIPING REPLACEMENT 600 SOUTH 7TH AVENUE WEST WAUSAU, WISCONSIN 54401	PLUMBING DEMOLITION PLAN	P1
	Scale: 1/4" = 1'-0"	Drawn: JAD	Date: 7/2/19				
	Date: JAN 21, 2020	Checked: JAD	Date: 1/21/20				
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REVISED: 1/21/20

FILE NAME: UWMC P1



1
P1
PROPOSED PLUMBING PLAN

PLUMBING NOTES

1. ALL PROPOSED WORK FOR DOMESTIC WATER HEATING SYSTEM SHALL BE FULLY DESIGNED BY PLUMBING CONTRACTOR. REQUIRED COMPONENTS OF THE SYSTEM ARE ON THIS PLAN. PLUMBING CONTRACTOR SHALL USE THESE COMPONENTS TO FINALIZE DESIGN. IF CONTRACTORS DESIGN REQUIRES BIGGER COMPONENTS THAN LISTED ON THIS PLAN, CONTRACTOR IS REQUIRED TO USE WHAT THEIR DESIGN REQUIRES. CONTRACTOR SHALL PROVIDE STATE REQUIRED STAMP ON THE FINAL DESIGN AND SUBMIT PLUMBING PLAN TO STATE FOR REVIEW AND APPROVAL. REVIEW FEES SHALL BE PAID BY CONTRACTOR.
2. CONTRACTOR SHALL NOT DEMO EXISTING DOMESTIC WATER HEATING SYSTEM UNTIL NEW SYSTEM IS COMPLETELY INSTALLED AND READY FOR OPERATION. CONTRACTOR SHALL DISCONNECT EXISTING SYSTEM AND COMPLETE FINAL CONNECTIONS FOR NEW SYSTEM ON A DESIGNATED TWO-DAY WEEKEND, SATURDAY AND SUNDAY, AGREED TO BY OWNER. CONTRACTOR SHALL HAVE COMPLETE SYSTEM PROVIDING THE BUILDING HOT WATER PRIOR TO THE END OF DAY ON SUNDAY.
3. CONTRACTOR SHALL INSTALL NEW SUMP PUMP IMMEDIATELY WHEN OLD SUMP PUMP IS TAKEN OFF LINE AND REMOVED.
4. ALL ELECTRICAL WORK REQUIRED FOR THE INSTALLATION OF THE NEW DOMESTIC WATER HEATING SYSTEM AND NEW SUMP PUMP SHALL BE BY THIS CONTRACTOR. CONTRACTOR SHALL PROVIDE DESIGN OF ELECTRICAL WORK FOR SUBMITTAL TO STATE FOR PLAN REVIEW. PLAN REVIEW FEE SHALL BE PAID BY CONTRACTOR. ALL NEW PANELS, SWITCHES, CONDUITS, AND SUPPORTS SHALL BE NON-CORROSIVE MATERIALS.
5. CONTRACTOR SHALL VERIFY SUMP BASIN PLATE SIZE REQUIREMENT PRIOR TO ORDERING PLATE. CONTRACTOR SHALL VERIFY AT PRE-BID WALK THROUGH.

DOMESTIC HOT WATER SYSTEM EQUIPMENT

EQUIPMENT	QUANTITY	MANUFACTURER	MODEL
STORAGE TANKS	2	WESSELS COMPANY	GA-400M, INSTALLED VERTICALLY
HEAT EXCHANGER	1	BELL & GOSSETT	CHX-660, 2 PASS
BUILDING RECIRCULATION PUMP	1	BELL & GOSSETT	IRON & LEAD FREE BRONZE BOOSTER PUMP, MODEL NO. 2, 1/6 HP, 115 VOLTS
TANK RECIRCULATION PUMP	1	BELL & GOSSETT	IRON & LEAD FREE BRONZE BOOSTER PUMP, AS DESIGNED BY CONTRACTOR
HEAT EXCHANGER RECIRCULATION PUMP	1	BELL & GOSSETT	IRON & LEAD FREE BRONZE BOOSTER PUMP, AS DESIGNED BY CONTRACTOR

DOMESTIC HOT WATER SYSTEM PERFORMANCE REQUIREMENTS

1. STORAGE TANKS SHALL BE GLASS LINED STORAGE TANKS. TANKS SHALL BE CONNECTED WITH PIPING TO BALANCE TANKS WITH TANK RECIRCULATION PUMP TO RECIRCULATE WATER BETWEEN THE TANKS. TANKS SHALL BE SET LEVEL ON A 4" HIGH HOUSEKEEPING BASE. HOUSEKEEPING BASE SHALL BE 4,000 PSI CONCRETE WITH #4 REINFORCING STEEL AT 8" SPACING BOTH WAYS. BASE SHALL BE APPROXIMATELY 4' x 4' IN SIZE. BOTH TANKS SHALL BE INSULATED WITH 3" OF INSULATION AND WRAPPED.
2. BUILDING RECIRCULATION PUMP SHALL OPERATE NON-STOP TO CONTINUOUSLY CIRCULATE THE HOT WATER THROUGH THE BUILDING SYSTEM. PUMP SHALL PROVIDE A MINIMUM OF 10 GPM AT 27 FEET OF TOTAL DYNAMIC HEAD.
3. HEAT EXCHANGER RECIRCULATION PUMP SHALL RECIRCULATE WATER FROM TANKS TO HEAT EXCHANGER AND BACK WITH HEATING IS CALLED FOR.
4. HEAT EXCHANGER SHALL OPERATE WITH BUILDING BOILER WATER SYSTEM WITH PROVIDES WATER AT RANGE OF 180-200 DEGREES F AND BE A 2 PASS SYSTEM.
5. CONTRACTOR SHALL DESIGN SYSTEM WITH ALL REQUIRED CONTROLS AND VALVING TO PROVIDE THE SYSTEM.
6. ALL NEW PIPING SHALL BE INSULATED WITH 1" FIBERGLASS INSULATION, JOHNS-MANVILLE MICRO-LOK WITH VAPOR BARRIER JACKET AND PVC FITTINGS, OR EQUAL.
7. ALL NEW PIPING SHALL BE TYPE "L" COPPER PIPING.
8. BALL VALVES SHALL BE USED ON PIPES 2" OR SMALLER AND SHALL BE BRASS, AS MANUFACTURED BY APOLLO, NIBCO, MILWAUKEE, OR HAMMOND.
9. PROVIDE AIR RELIEF VALVES WITH COPPER PIPING TO FLOOR.
10. THE REQUIRED OUTPUT DOMESTIC WATER TEMPERATURE IS 125-135 DEGREES F.
11. THE FOLLOWING FIXTURES ARE SERVICED WITH THIS HOT WATER: 27 SHOWERS, 11 SINKS, AND 3 UTILITY SINKS.
12. IF CONTRACTOR DESIRES TO USE DIFFERENT MANUFACTURER IN THEIR DESIGN, PRODUCTS SHALL BE APPROVED PRIOR TO BIDDING PROJECT.

PROPOSED SUMP PUMP EQUIPMENT

EQUIPMENT	QUANTITY	MANUFACTURER	MODEL/SPECIFICATION
SUMP PUMP	1	VERTIFLO PUMP COMPANY	SIMPLEX VERTICAL SUMP PUMP, MODEL 814, 2X1.5-6, CAST IRON CONSTRUCTION, 2" DISCHARGE, 6' PIT DEPTH, 20" STEEL PLATE, DRIVEN BY 1 HP, 3 PHASE, 208-230/460 VOLTS, TEFC MOTOR, OR PREAPPROVED EQUAL. PROVIDE MANUFACTURERS FLOAT SWITCH ASSEMBLY FOR OPERATION. PROVIDE SUPPORTS TO PUMP COMPONENTS IN SUMP BASIN PER MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS. CONNECT PUMP DISCHARGE TO EXISTING SUMP PUMP DISCHARGE PIPING. PROVIDE NEW ELECTRICAL NEEDED FOR SUMP PUMP OPERATION PER CODE.