

# CODE ANALYSIS

## APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	Uniform Code for Building Conservation	
International Plumbing Code	2006	ADA Accessibility Guidelines	
International Fire Code	2006		
International Energy Conservation Code	2006		

A. Occupancy and Group: \_\_\_\_\_

Change in Use: Yes \_\_\_\_\_ No \_\_\_\_\_ Mixed Occupancy: Yes \_\_\_\_\_ No \_\_\_\_\_  
Special Use and Occupancy (e.g. High Rise, Covered Mall): \_\_\_\_\_

B. Seismic Design Category: \_\_\_\_\_ Design Wind Speed: \_\_\_\_\_ mph

C. Type of Construction (circle one):

I    I    II    II    III    III    IV    V    V  
A    B    A    B    A    B    HT    A    B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: \_\_\_\_\_ South: \_\_\_\_\_ East: \_\_\_\_\_ West: \_\_\_\_\_

E. Mixed Occupancies: \_\_\_\_\_ Nonseparated Uses: \_\_\_\_\_

F. Sprinklers:

Required: \_\_\_\_\_ Provided: \_\_\_\_\_ Type of Sprinkler System: \_\_\_\_\_

G. Number of Stories: \_\_\_\_\_ Building Height: \_\_\_\_\_

H. Actual Area per Floor (square feet): \_\_\_\_\_

I. Tabular Area: \_\_\_\_\_

J. Area Modifications:

$$a) A_a = A_t + \left[ \frac{A_t I_f}{100} \right] + \left[ \frac{A_t I_s}{100} \right] \quad I_f = 100 \left[ \frac{F}{P} - 0.25 \right] \frac{W}{30}$$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$$

c) Total Allowable Area for:

- 1) One Story: \_\_\_\_\_
- 2) Two Story:  $A_a(2)$  \_\_\_\_\_
- 3) Three Story:  $A_a(3)$  \_\_\_\_\_

d) Unlimited Area Building: Yes \_\_\_\_\_ No \_\_\_\_\_ Code Section: \_\_\_\_\_

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls			Floors - Ceiling Floors		
Interior Bearing Walls			Roofs - Ceiling Roofs		
Exterior Non-Bearing Walls			Exterior Doors and Windows		
Structural Frame			Shaft Enclosures		
Partitions - Permanent			Fire Walls		
Fire Barriers			Fire Partitions		
			Smoke Partitions		

L. Design Occupant Load: \_\_\_\_\_

Exit Width Required: \_\_\_\_\_ Exit Width Provided: \_\_\_\_\_

M. Minimum Number of Required Plumbing Facilities:

- a) Water Closets - Required (m) \_\_\_\_\_ (f) \_\_\_\_\_ Provided (m) \_\_\_\_\_ (f) \_\_\_\_\_
- b) Lavatories - Required (m) \_\_\_\_\_ (f) \_\_\_\_\_ Provided (m) \_\_\_\_\_ (f) \_\_\_\_\_
- c) Bath Tubs or Showers: \_\_\_\_\_
- d) Drinking Fountains: \_\_\_\_\_ Service Sinks: \_\_\_\_\_

FOOTNOTES:

- 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
- 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
  - a) High Rise Requirements.
  - b) Atriums.
  - c) Performance Based Criteria.
  - d) Means or Egress Analysis.
  - e) Fire Assembly Locator Sheet.
  - f) Exterior and Interior Accessibility Route.
  - g) Fire Stopping, Including Tested Design Number.

# UTAH STATE HOSPITAL POOL EQUIPMENT REPAIRS DFCM #08195420



State of Utah—Department of Administrative Services

## DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

### DRAWING INDEX:

- M000 - TITLE SHEET
- MG001- GENERAL NOTES AND LEGEND
- MD101- POOL EQUIPMENT ROOM DEMOLITION PLAN
- MD102- POOL EQUIPMENT ROOM DEMOLITION DETAILS
- ME101- POOL EQUIPMENT STEAM AND POOL PIPING PLAN
- ME501- POOL EQUIPMENT ROOM DETAILS
- ME601- EQUIPMENT SCHEDULES



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PROJECT NAME & ADDRESS

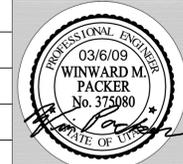
**STATE HOSPITAL  
POOL EQUIPMENT  
REPAIR**

**DFCM No. 08195420**

Provo, Utah

MARK	DATE	REVISION

PROJECT MANAGER:  
WP  
DRAWN BY:  
STAFF  
CHECKED BY:  
SLW  
DATE:  
3/6/09  
WHW JOB NO.:  
09003



**GENERAL NOTES AND  
LEGEND**

SHEET NO.  
**MG 001**

**MECHANICAL LEGEND**

SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY			WET SIDE		
(A2)		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION	(P)		PUMP
(MA 1)		MECHANICAL EQUIPMENT DESIGNATION	(R)		REGULATOR
(1)		EQUIPMENT ITEM DESIGNATION	(U)		UNION
(1)		REVISION DESIGNATOR AND NUMBER	(BV)		BUTTERFLY VALVE
(1)		KEY NOTE DESIGNATOR AND NUMBER	(GV)		GATE VALVE
(P)	POC	POINT OF CONNECTION	(CBV)		CIRCUIT BALANCING VALVE
(R)	POR	POINT OF REMOVAL	(BV)		BALL VALVE
GC		GENERAL CONTRACTOR	(M2V)		MOTORIZED 2-WAY CONTROL VALVE
MC		MECHANICAL CONTRACTOR	(PG)		PRESSURE GAUGE AND GAUGE COCK - WATER
ATC		CONTROL CONTRACTOR	(PG)		PRESSURE GAUGE AND GAUGE COCK - STEAM
EC		ELECTRICAL CONTRACTOR	(T)		THERMOMETER AND THERMOWELL
FPC		FIRE PROTECTION CONTROL	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
NIC		NOT IN CONTRACT	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
NTS		NOT TO SCALE	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
C		COMMON	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
NC		NORMALLY CLOSED	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
NO		NORMALLY OPEN	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(AP)	AP	ACCESS PANEL	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(E)		EXISTING EQUIPMENT TO BE REMOVED	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(R)		EXISTING EQUIPMENT TO REMAIN	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(N)		NEW EQUIPMENT	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(T)	T-STAT	WALL MOUNTED THERMOSTAT	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(RTU-1)		MECHANICAL EQUIPMENT CONTROLLED	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(- - -)		EXISTING PIPING TO BE REMOVED	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(- - -)		EXISTING PIPING TO REMAIN	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(- - -)		NEW PIPING	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(- - -)		PIPE CAP OR PLUG	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(- - -)		FLEXIBLE CONNECTION	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(- - -)	CW	CULINARY COLD WATER	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(- - -)	HW	CULINARY HOT WATER	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(- - -)	HWR	RECIRCULATED CULINARY HOT WATER	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(- - -)	PC	PUMPED CONDENSATE	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(- - -)	CR	CONDENSATE RETURN	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(- - -)	LPS	LOW PRESSURE STEAM SUPPLY	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL
(- - -)	HPS	HIGH PRESSURE STEAM SUPPLY	(S)		WATER TEMPERATURE SENSOR AND THERMOWELL

GENERAL NOTES:

**G-1** MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION FROM CUCF STANDARDS AND SPECIFICATIONS.

**A** - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

**B** - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

**C** - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

**D** - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

**E** - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

**G-2** ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.

**G-3** CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

**G-4** THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS.

**G-5** THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

**G-6** SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

**G-7** CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

**G-8** ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

**G-9** ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IPC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

**G-10** ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE.

**G-11** PROVIDE VACUUM BREAKERS AND BACK FLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANCE FOR CROSS CONTAMINATION. PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH IPC WITH UTAH AMMENDMENTS.

**G-12** ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING CONDITIONS AND OBSTACLES.

**G-13** ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER IN WRITING PRIOR TO ANY CHANGES. CONTRACTOR SHALL BE RESPONSIBLE IF CHANGES ARE MADE WITHOUT APPROVAL.

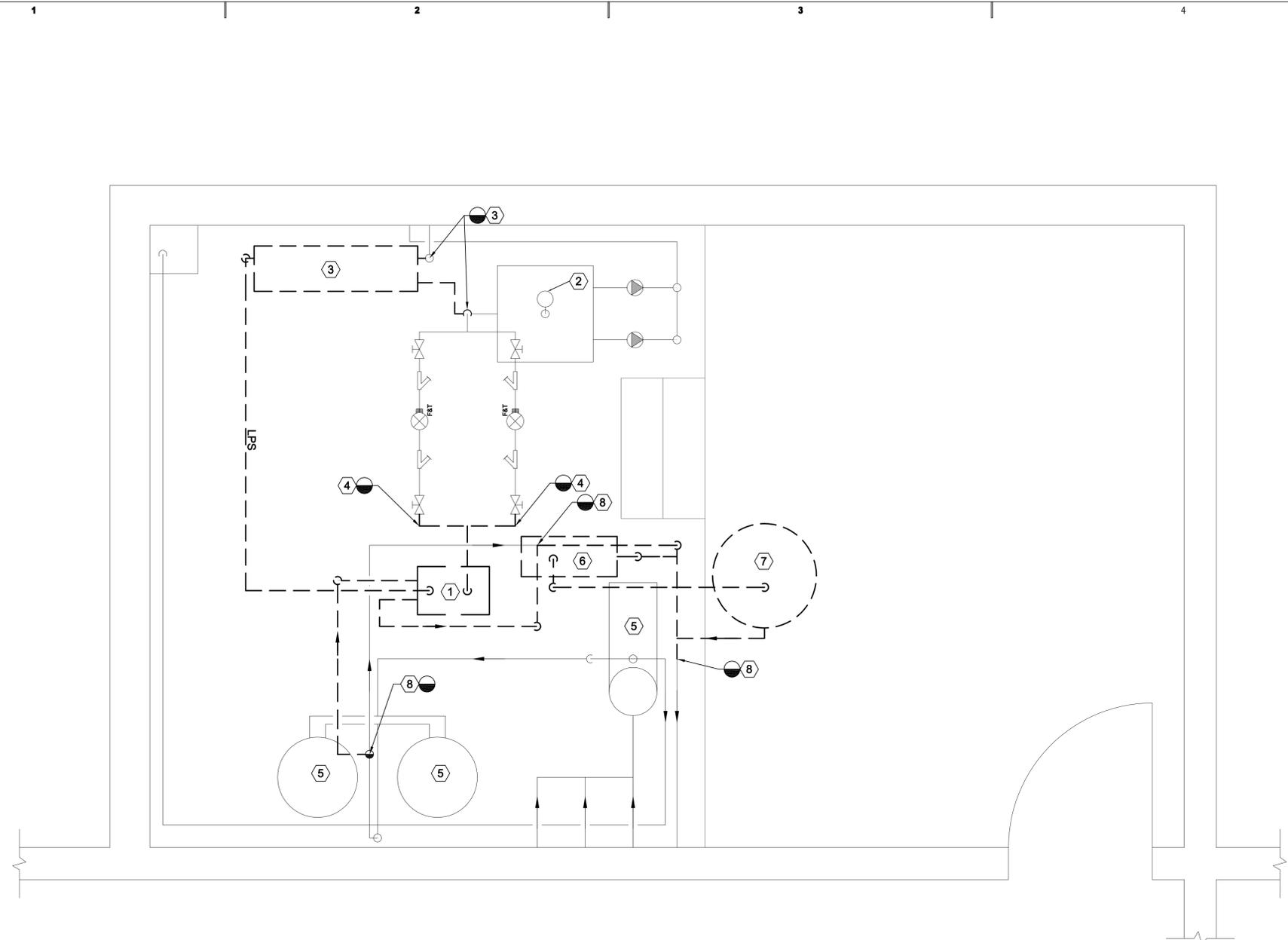
**G-14** ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANS/NSF STANDARD 61 SECTION 9 (1998), CONCERNING METAL CONTAMINANTS IN THE WATER SYSTEM..

**G-15** WATER PIPING SHALL NOT BE ROUTED IN OUTSIDE WALLS OR ON EXTERIOR SIDE OF BUILDING INSULATION ENVELOPE.

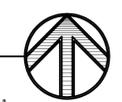
**G-16** CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING PIPING, CONDITIONS, TIE-INS ETC.

**G-17** ALL CW, HW, HWR, VALVES ETC. SHALL BE INSULATED. INSULATION SHALL BE INSTALLED BY A LICENSED INSULATION CONTRACTOR. SEE SPECIFICATIONS.

**G-18** THIS CONTRACTOR SHALL CONTRACT WITH A DESIGN BUILD ELECTRICAL CONTRACTOR TO DESIGN AND INSTALL THE ELECTRICAL PORTION OF THIS PROJECT ASSOCIATED WITH THE NEW UV SYSTEM.



**POOL AREA MECHANICAL ROOM**  
SCALE: 3/4" = 1'-0"



**SHEET NOTES**

- SHEET NOTES:**
- ① REMOVE EXISTING HEAT EXCHANGER.
  - ② EXISTING CONDENSATE TANK AND VENT TO ROOF SHALL REMAIN.
  - ③ REMOVE EXISTING STEAM HEADER PIPING AND ASSOCIATED CONTROL VALVES, UP TO POINT OF ENTRY INTO POOL EQUIPMENT ROOM. SEE SHEET MD102 FOR DETAILS.
  - ④ REMOVE CONDENSATE PIPING UP TO THIS APPROXIMATE LOCATION. ALL CONDENSATE SIDE VALVES, TRAPS, AND STRAINERS UP TO CONDENSATE TANK ARE SHALL REMAIN IN PLACE.
  - ⑤ EXISTING POOL EQUIPMENT SHALL REMAIN.
  - ⑥ EXISTING OZONE TANK PUMP SHALL BE REMOVED BY WATER TREATMENT CONTRACTOR.
  - ⑦ EXISTING OZONE CONTACT TANK SHALL BE REMOVED BY WATER TREATMENT CONTRACTOR.
  - ⑧ REMOVE PIPING UP TO THIS APPROXIMATE LOCATION.

- GENERAL NOTES:**
- 1. VERIFY WITH FACILITIES MANAGER WHICH COMPONENTS ARE TO BE SALVAGED TO OWNER.
  - 2. THE DESIGN INTENT FOR DEMOLITION INCLUDES THE FOLLOWING:
    - REMOVE THE STEAM SUPPLY PIPING UP TO POINT OF ENTRY INTO POOL EQUIPMENT ROOM
    - REMOVE OZONE TREATMENT SYSTEM INCLUDING PUMP, CONTACT TANK, ASSOCIATED CONTROLS AND PIPING
    - REMOVE EXISTING HOT WATER GENERATOR

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**PROJECT NAME & ADDRESS**

**STATE HOSPITAL**  
**POOL EQUIPMENT**  
**REPAIR**

**DFCM No. 08195420**  
Provo, Utah

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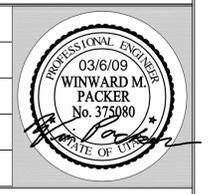
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SLW

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SHEET TITLE

**POOL EQUIPMENT ROOM**  
**PIPING DEMOLITION PLAN**

SHEET NO.

**MD 101**

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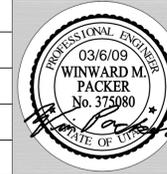
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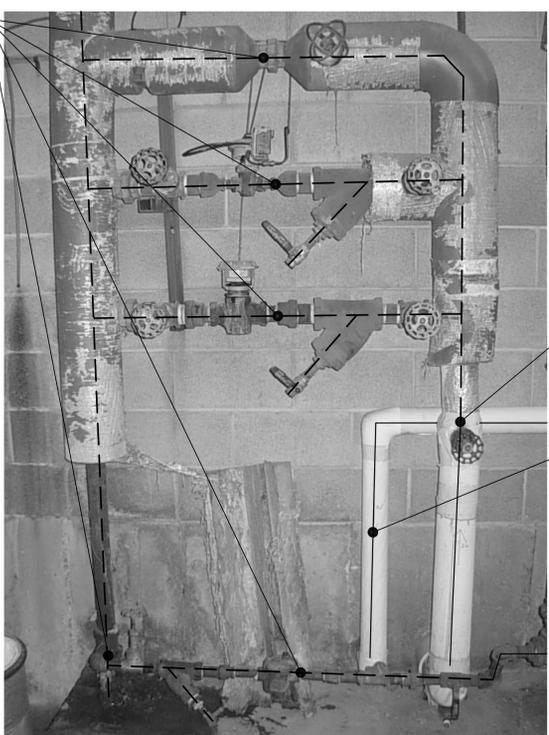
SHEET TITLE



**POOL EQUIPMENT ROOM  
PIPING DEMOLITION DETAILS**

SHEET NO.  
**MD 102**

REMOVE STEAM PIPING AND ALL ASSOCIATED CONTROL VALVES, STRAINERS, ETC.



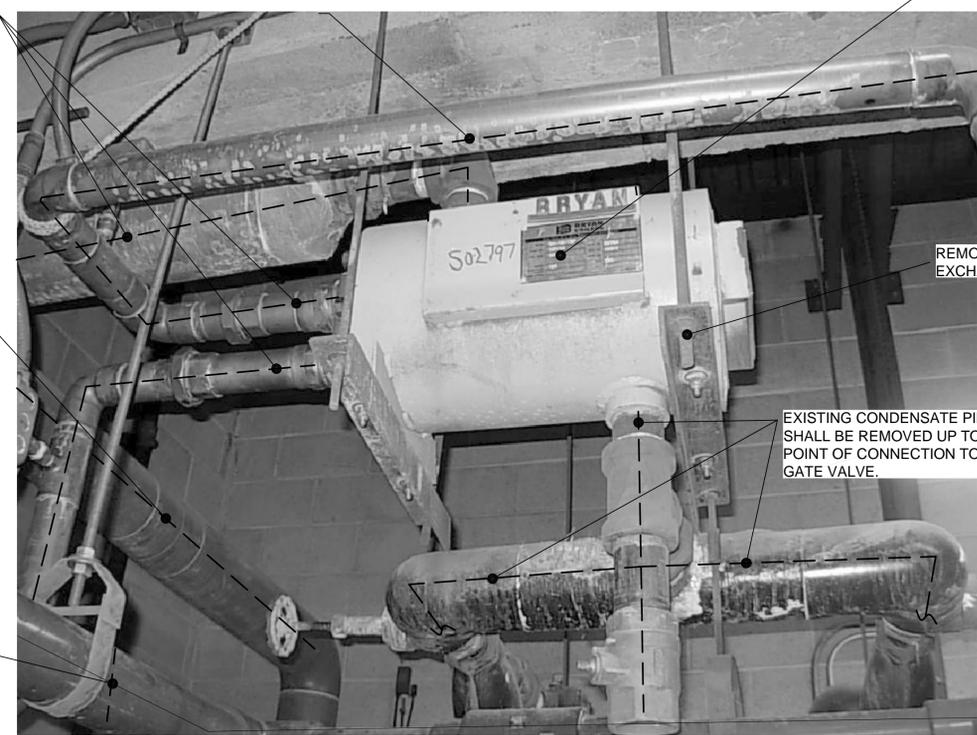
STEAM PIPING SHALL REMAIN FROM THIS POINT DOWN

STEAM SUPPLY PIPING SHALL BE REMOVED

PUMPED CONDENSATE PIPING TO REMAIN

**C1 STEAM HEADER DETAIL**  
SCALE: NONE

POOL WATER SUPPLY AND RETURN LINES SHALL BE REMOVED



EXISTING HEAT EXCHANGER SHALL BE REMOVED

REMOVE AND REPLACE HEAT EXCHANGER HANGERS

EXISTING CONDENSATE PIPING SHALL BE REMOVED UP TO POINT OF CONNECTION TO GATE VALVE.

POOL WATER BYPASS PIPING SHALL REMAIN

**C3 HEAT EXCHANGER AND RELATED PIPING**  
SCALE: NONE

POOL WATER REHEAT LINE TEES OFF HERE. (PIPING RUNS BEHIND BYPASS PIPE. NOT VISIBLE IN PICTURE)



POOL WATER RETURN LINE SHALL BE REMOVED

STEAM SUPPLY PIPING SHALL BE REMOVED

EXISTING CONDENSATE PIPING SHALL BE REMOVED UP TO POINT OF CONNECTION WITH GATE VALVES.

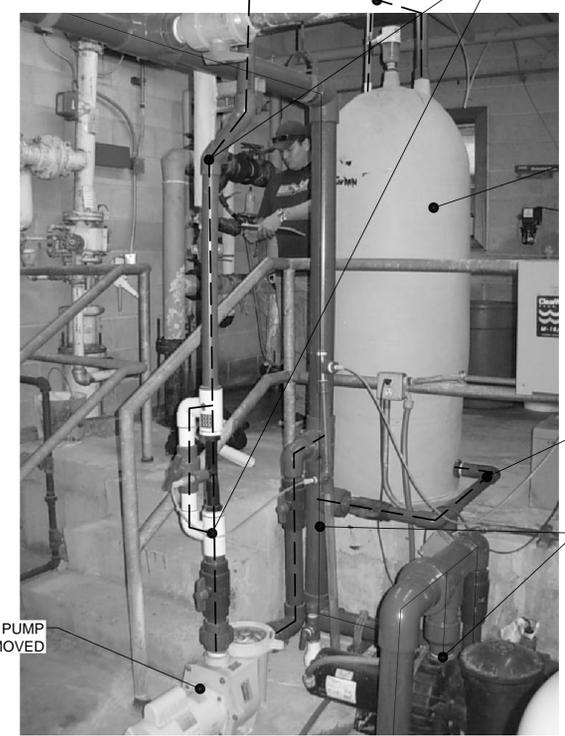
CW MAKEUP PIPING TO REMAIN

POOL WATER BYPASS PIPING TO REMAIN

POOL WATER RETURN SHALL REMAIN

**A1 HEAT EXCHANGER AND RELATED PIPING**  
SCALE: NONE

EXISTING PIPING TO CONTACT TANK SHALL BE REMOVED



EXISTING OZONE CONTACT TANK SHALL BE REMOVED

EXISTING PIPING FROM CONTACT TANK SHALL BE REMOVED

EXISTING POOL RETURN PIPING SHALL REMAIN

OZONE CONTACT PUMP SHALL BE REMOVED

**C1 STEAM HEADER DETAIL**  
SCALE: NONE

SHEET NOTES

- ① PROVIDE NEW STEAM CONTROL VALVES AND RECONNECT TO MAIN SUPPLY INLET. SEE SHEET ME501 FOR DETAILS.
- ② CONNECT NEW PIPING TO EXISTING AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATIONS.
- ③ SEE SHEET ME501 FOR PIPING DETAILS AND DIAGRAM..
- ④ UV FILTER TO BE INSTALLED WITH BYPASS CIRCUIT AND BALL VALVES TO ALLOW FOR ROUTINE MAINTNENACE AS SHOWN.
- ⑤ RE-INSULATE ALL NEW AND EXISTING STEAM AND CONDENSATE LINES AS WELL AS COPPER WATER PIPING.
- ⑥ HANG HOT WATER GENERATOR FROM CEILING STRUCTURE. SEE SHEET ME501 FOR DETAIL.
- ⑦ UV TREATMENT SYSTEM SHALL BE PROVIDED AND INSTALLED BY AND APPROVED MANUFACTURE PER SPECIFICATIONS.
- ⑧ DESIGN BUILD ELECTRICIAN SHALL PROVIDE ELECTRICAL POWER AND REQUIREMENTS TO NEW UV SYSTEM.
- ⑨ ADD ALT#1: CLEAN OR ACID WASH TILE AROUND POOL
- ⑩ ADD ALT#2: REGROUT AND REPAIR/REPLACE ALL BROKEN TILE IN DRESSING ROOMS.
- ⑪ ADD ALT #3: REPLACE DOOR TO POOL CHEMICAL ROOM.
- ⑫ ADD ALT#4: REPLACE BROKEN MIRROR IN DRESSING ROOM.

GENERAL NOTES:

- 1. THE DESIGN INTENT FOR NEW SYSTEMS IS AS FOLLOWS:
  - INSTALL UV TREATMENT POOL FILTER SYSTEM
  - REPLACE STEAM CONTROL STATION
  - REPLACE STEAM PIPING TO HOT WATER GENERATOR
  - REPLACE POOL HOT WATER GENERATOR
  - ADDITIONAL BUILDING MAINTENANCE ITEMS AS LISTED IN SHEET NOTES

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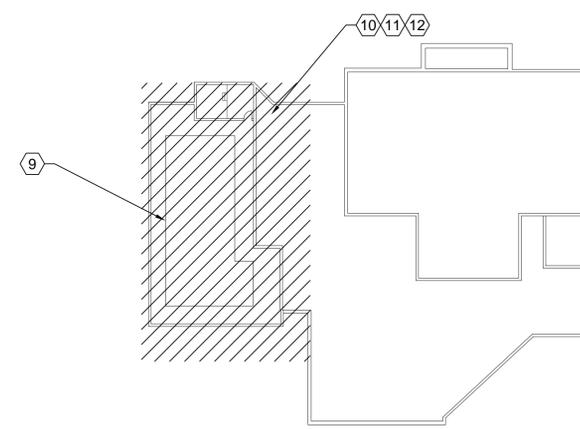
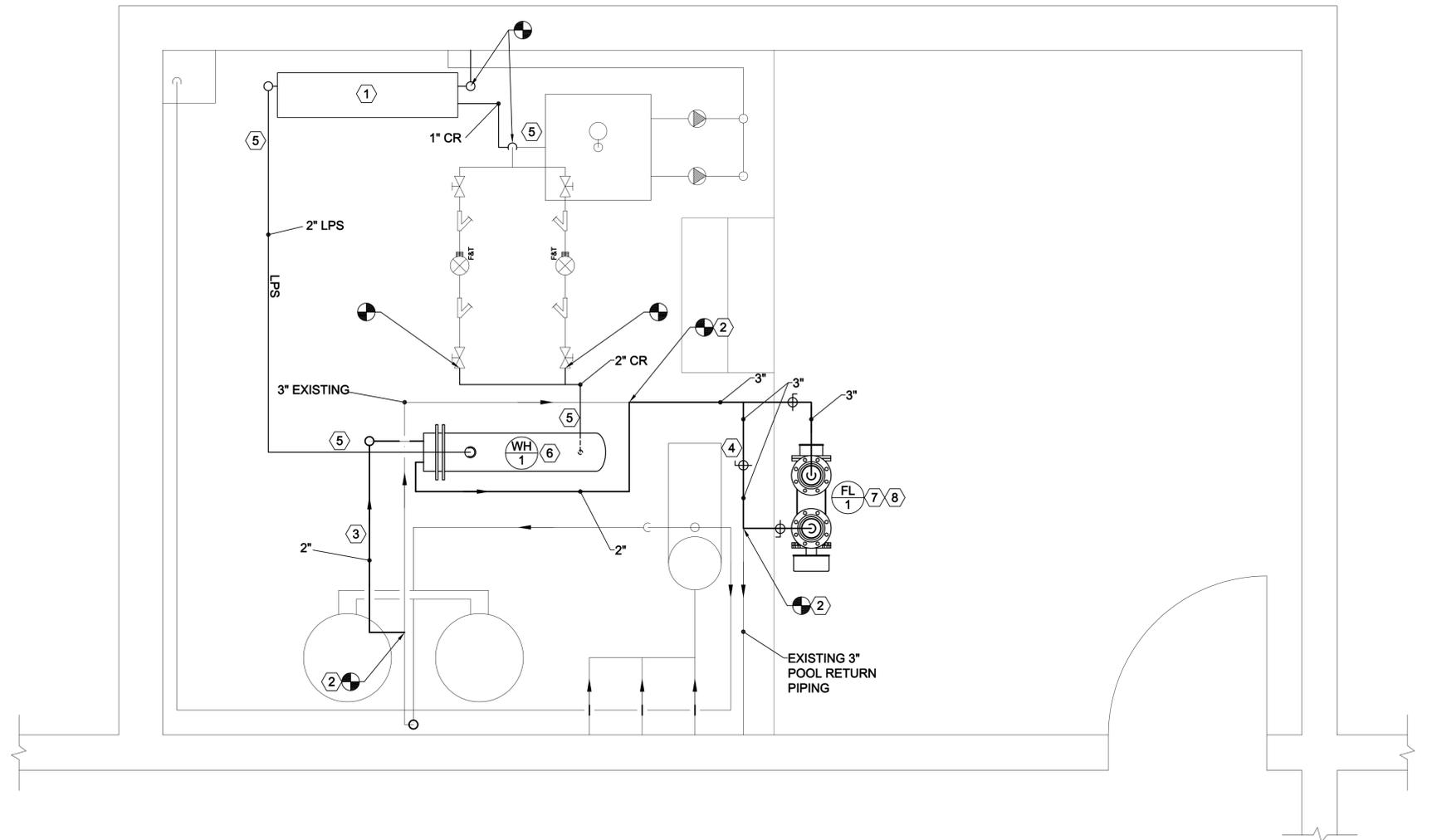
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SHEET TITLE

**POOL EQUIPMENT ROOM STEAM  
AND POOL PIPING PLAN**

SHEET NO.

**ME 101**



KEY PLAN NORTH HALF OF BUILDING

**POOL AREA MECHANICAL ROOM**

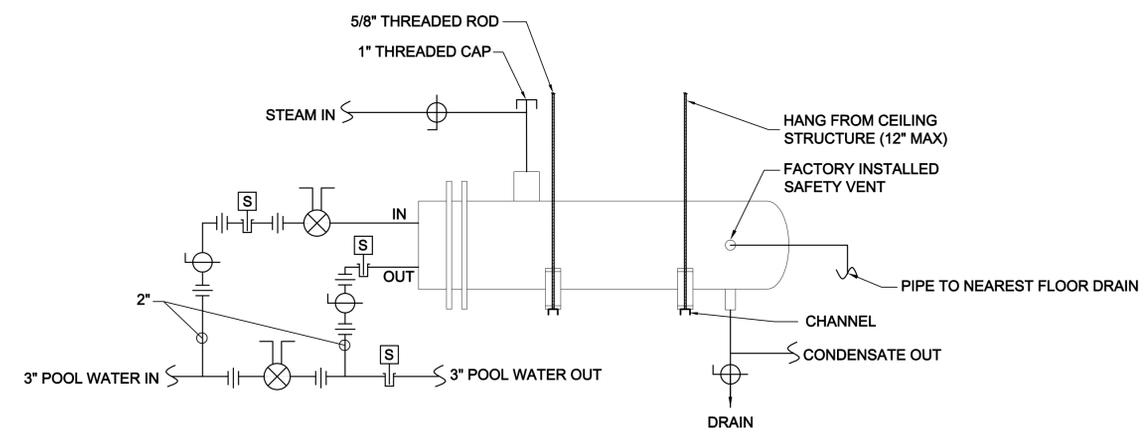
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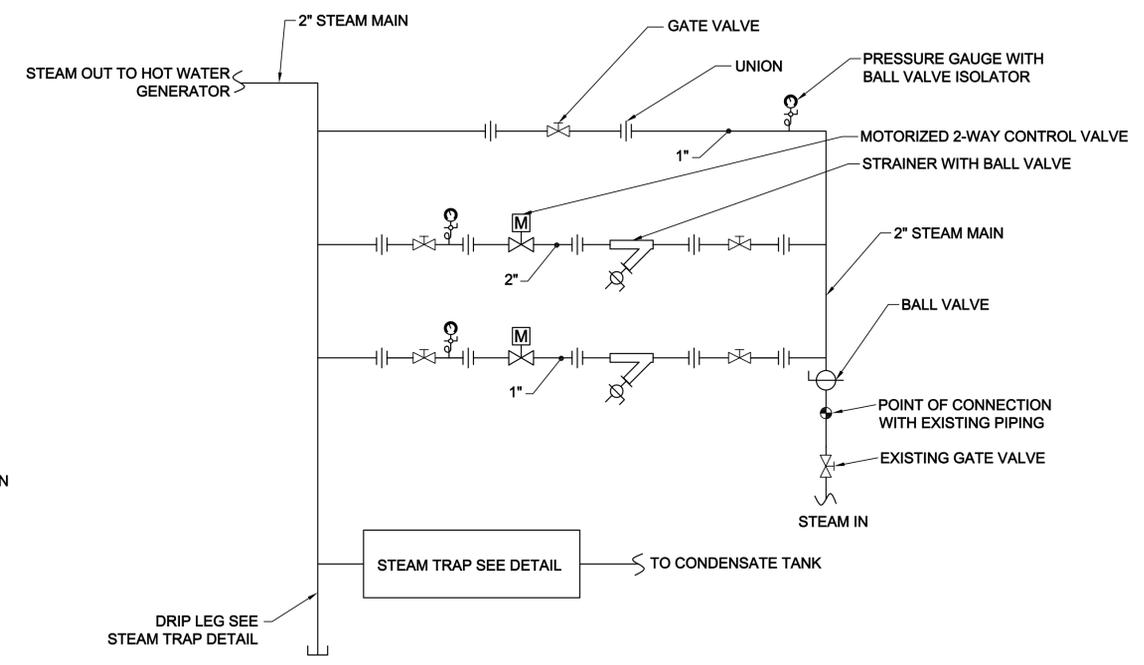
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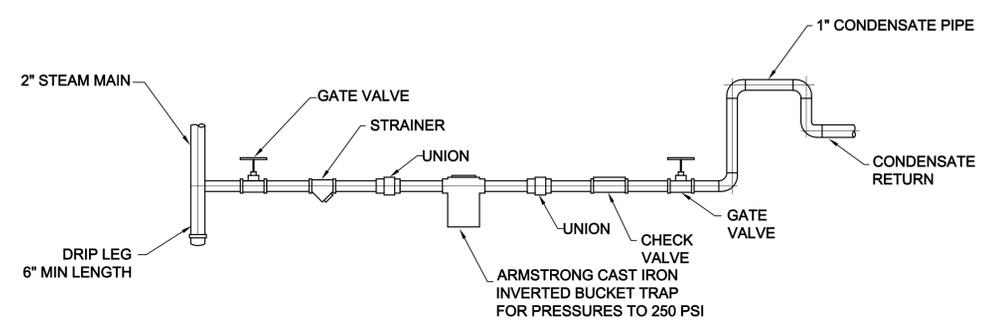
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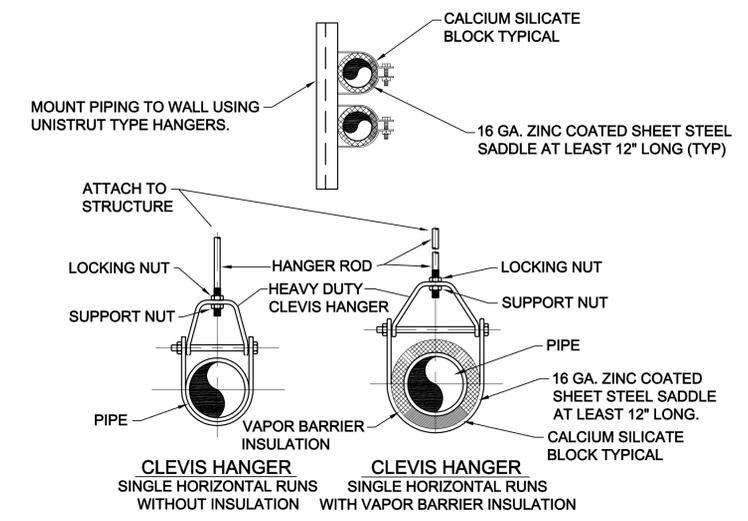
**C1 STEAM DRIVEN HOT WATER GENERATOR DETAIL**  
 SCALE: NONE



**C4 STEAM PRV STATION DETAIL**  
 SCALE: NONE



**A1 STEAM TRAP INSTALLATION DETAIL**  
 SCALE: NONE



**A4 PIPE HANGER DETAIL**  
 SCALE: NONE

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PROJECT MANAGER:  
 WP

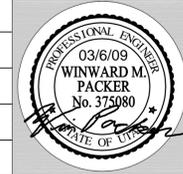
DRAWN BY:  
 STAFF

CHECKED BY:  
 SLW

DATE:  
 3/6/09

WHW JOB NO.:  
 09003

SHEET TITLE



**POOL EQUIPMENT ROOM  
 PIPING DETAILS**

SHEET NO.  
**ME 501**

**CONSULTANTS**

**WHW**  
**ENGINEERING INC.**  
PROFESSIONAL MECHANICAL ENGINEERING  
8619 Sandy Parkway Suite 101  
SANDY, UTAH 84070  
(801)466-4021, FAX 466-8636  
EMAIL: [excellence@whw-engineering.com](mailto:excellence@whw-engineering.com)

**PROJECT NAME & ADDRESS**

**STATE HOSPITAL  
POOL EQUIPMENT  
REPAIR**

**DFCM No. 08195420**

Provo, Utah

MARK	DATE	REVISION

PROJECT MANAGER:

WP

DRAWN BY:

STAFF

CHECKED BY:

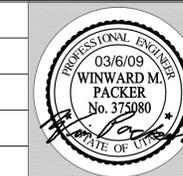
SLW

DATE:

3/6/09

WHW JOB NO.:

09003



SHEET TITLE

**EQUIPMENT SCHEDULES**

SHEET NO.

**ME 601**

**STEAM POWERED HOT WATER GENERATOR**

SYMBOL	COLD SIDE (TUBE)			STEAM HOT SIDE (SHELL)		HEATING SURFACE SQ. FT	MAKE AND MODEL	SCHEDULE NOTES
	GPM	T IN	T OUT	#/HR	PRESS PSIG.			
$\frac{WH}{1}$	30	40°F	120°F	1269	15	25.4	ARMSTRONG WSX-83-4-1	1, 2

- EXCHANGER SHALL BE SUPPLIED WITH SUPPORT BRACKETS.
- PROVIDE WITH DOUBLE WALL CUPRO-NICKLE TUBES. SEE SPECIFICATION FOR CONSTRUCTION DETAILS.

**UV POOL WATER TREATMENT FILTER**

SYMBOL	MAX FLOW RATE (GPM)	INLET SIZE	OUTLET SIZE	MAX OPERATING PRESS (PSIG)	NOMINAL UV BULB POWER (kW)	ELECTRIC SERVICE			MAKE AND MODEL	SCHEDULE NOTES
						VOLTS	PHASE	FREQUENCY		
$\frac{FL}{1}$	365	4"	4"	100	2.5	480V	3Ø	60HZ	ETS SP-25-6	1,2,3

- ALL NECESSARY EQUIPMENT CONTROLS TO BE PROVIDED WITH FILTER.
- UNIT MUST INCLUDE INTEGRAL AUTOMATIC WIPER.
- UNIT TO BE INSTALLED WITH MFG. RECOMENDED CLEARANCES FOR ROUTINE MAINTENANCE.