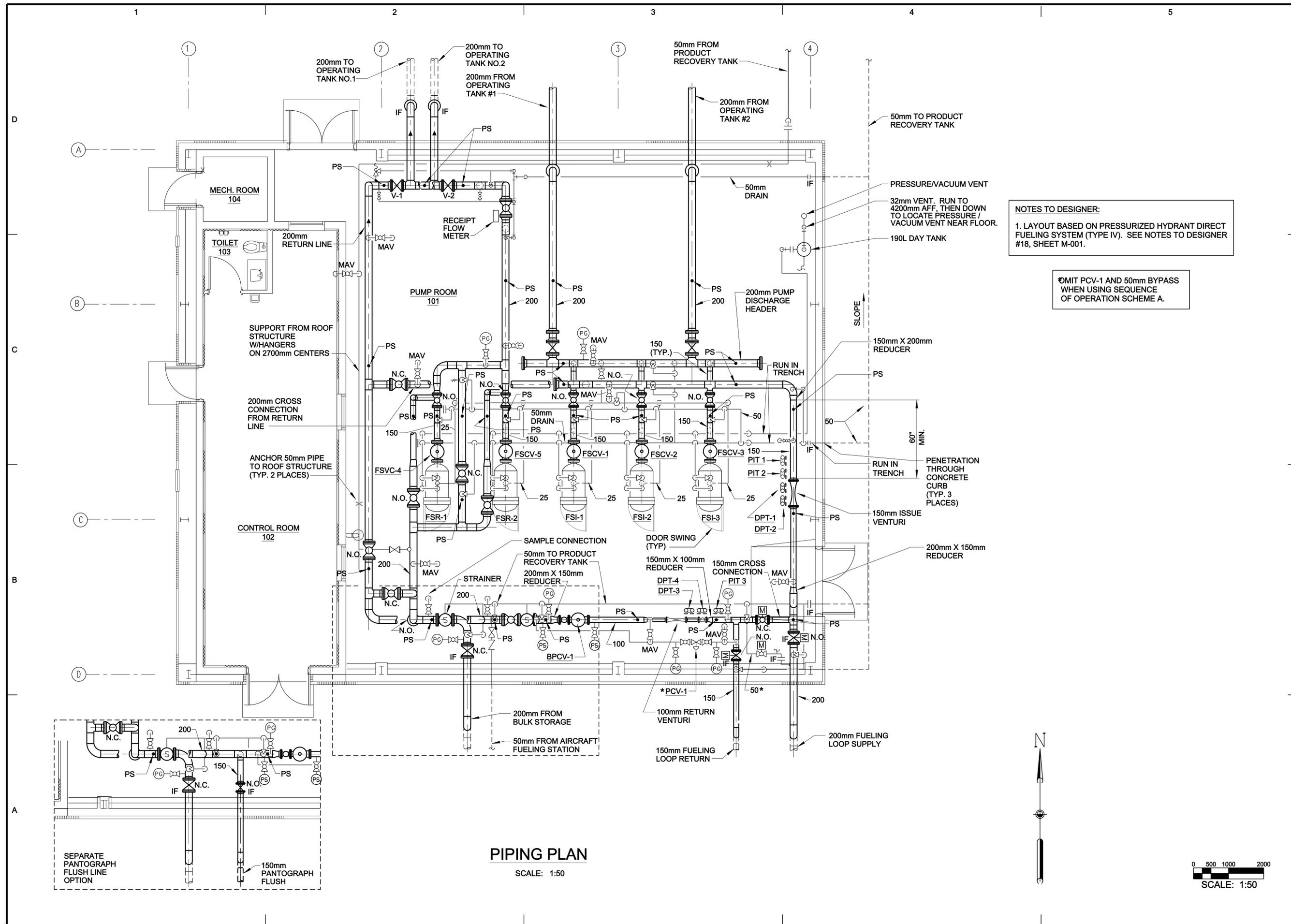


DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: [redacted]	DATE: JULY 2010
DESIGNED BY: [redacted]	DESIGN NO.: W9128F-0X-C-00XX
DRAWN BY: [redacted]	CONTRACT NO.: W9128F-0X-C-00XX
SUBMITTED BY: [redacted]	FILE NUMBER: [redacted]
FILE NAME: 0040M-1016.dwg	PLOT DATE: 7/9/2010
SIZE: 84x59	PLOT SCALE: 1" = 10'

DOD, CUTNCOVER STANDARDS
FILTER BUILDING
PIPING PLAN
SCHEME A

SHEET IDENTIFICATION NUMBER
M-101a



NOTES TO DESIGNER:
1. LAYOUT BASED ON PRESSURIZED HYDRANT DIRECT FUELING SYSTEM (TYPE IV). SEE NOTES TO DESIGNER #18, SHEET M-001.

OMIT PCV-1 AND 50mm BYPASS WHEN USING SEQUENCE OF OPERATION SCHEME A.

PIPING PLAN
SCALE: 1:50

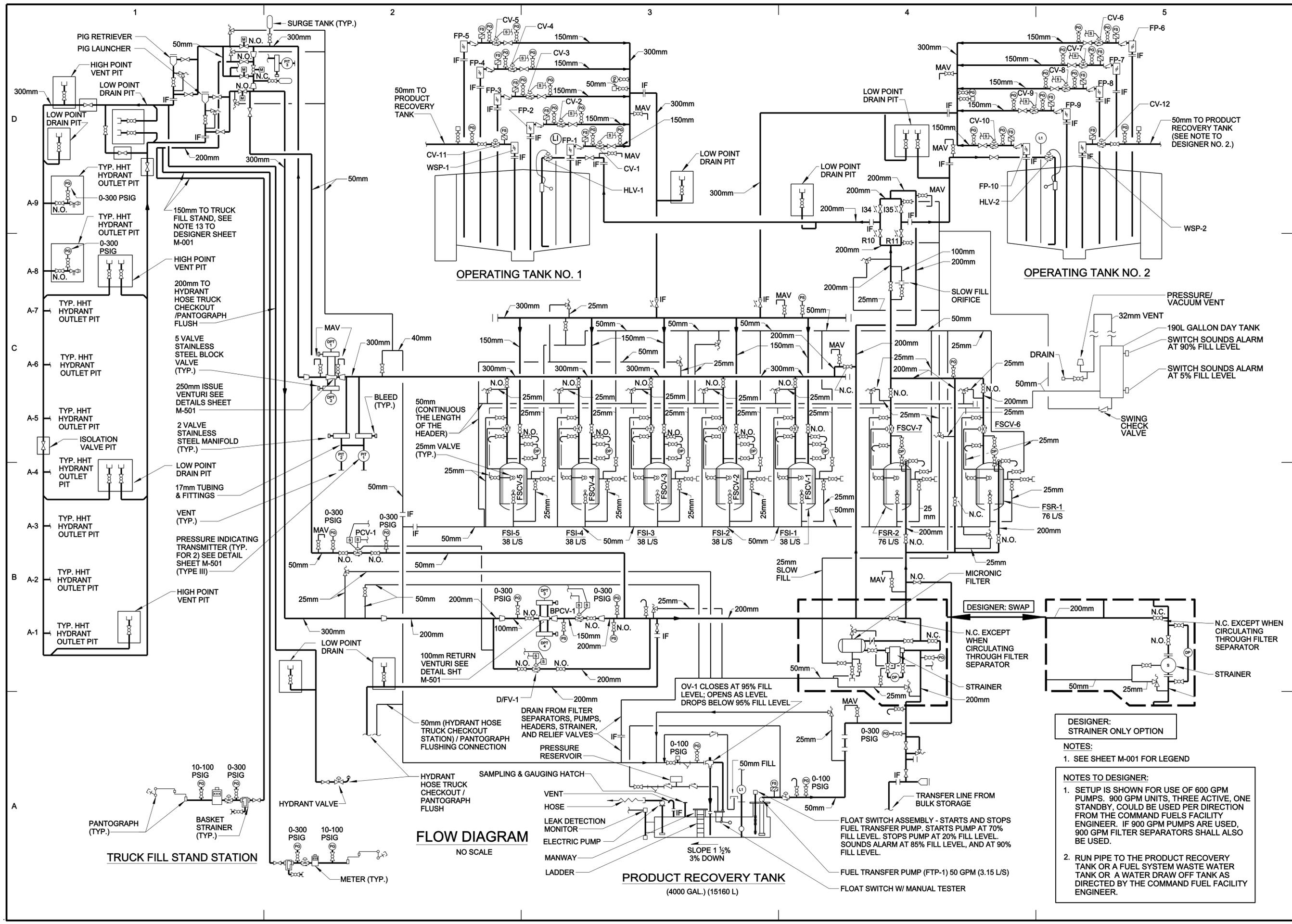
DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: USACE/CD/PESEK	DATE: JULY 2010
DRAWN BY: I.D.F.	CONTRACT NO: W912BF-0X-C-00XX
SUBMITTED BY: MICHAEL T. SMITH	CONTRACT NO: W912BF-0X-C-00XX
FILE NAME: 00-04W-201.dwg	FILE NUMBER: X
SIZE: 84x59 / 25 / in.	PLOT DATE: 7/9/2010

U.S. ARMY ENGINEER DISTRICT OMAHA, NEBRASKA

DOD, CUTN COVER STANDARDS FILTER BUILDING

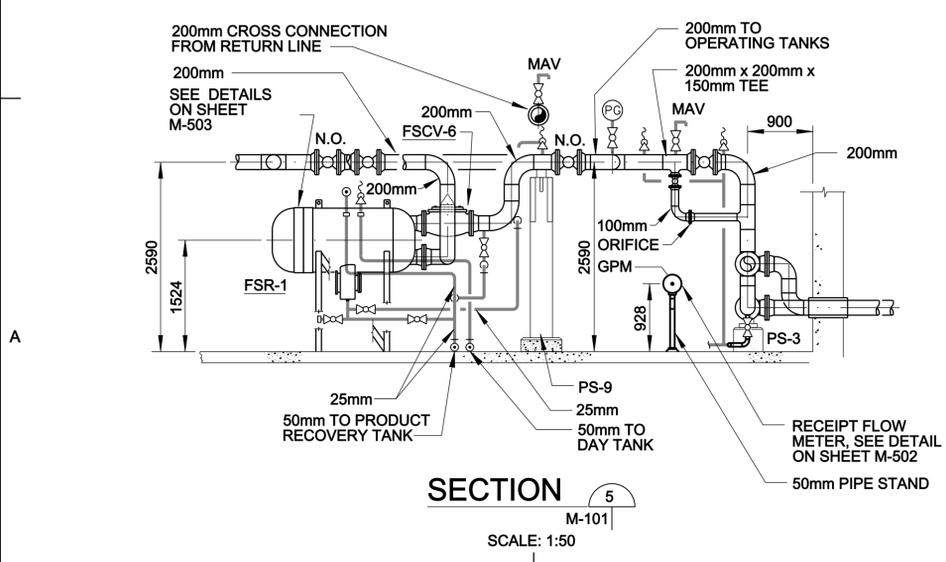
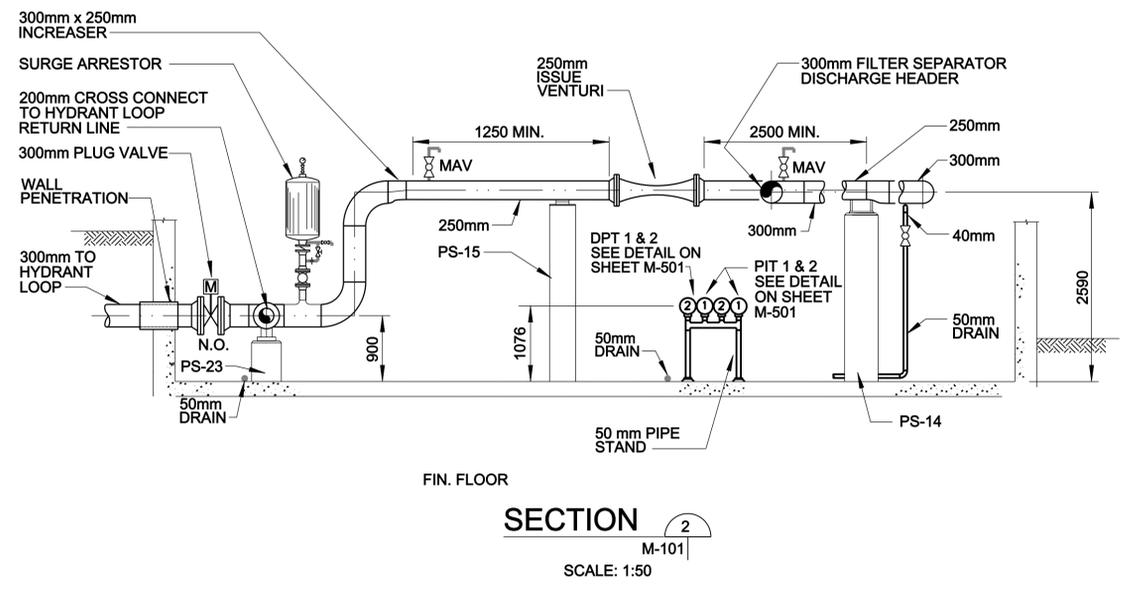
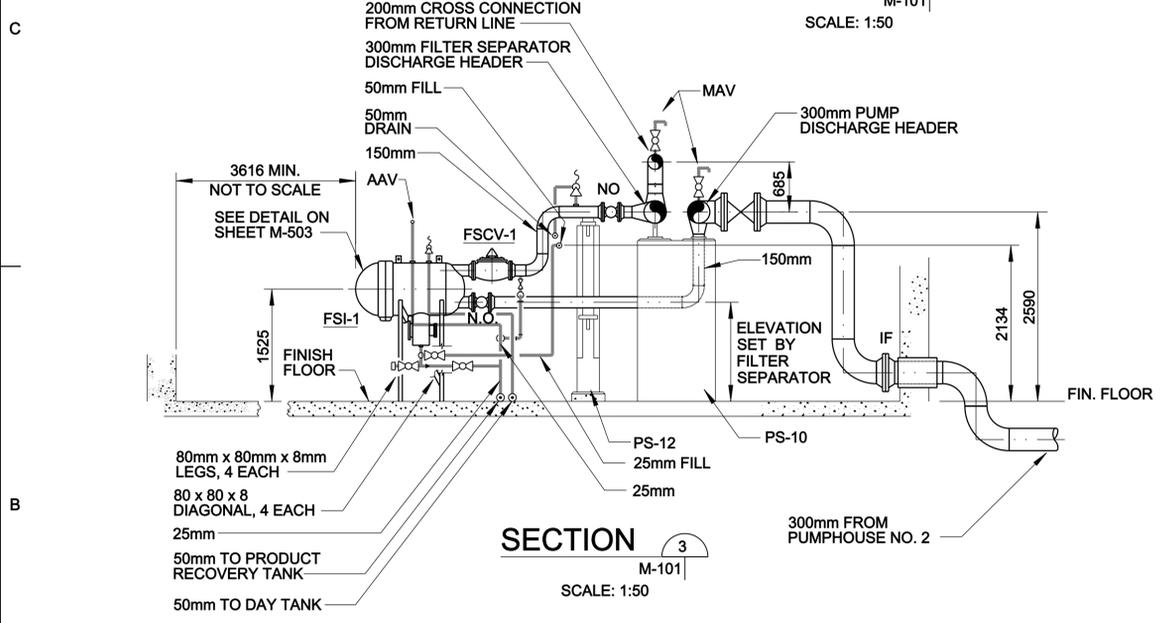
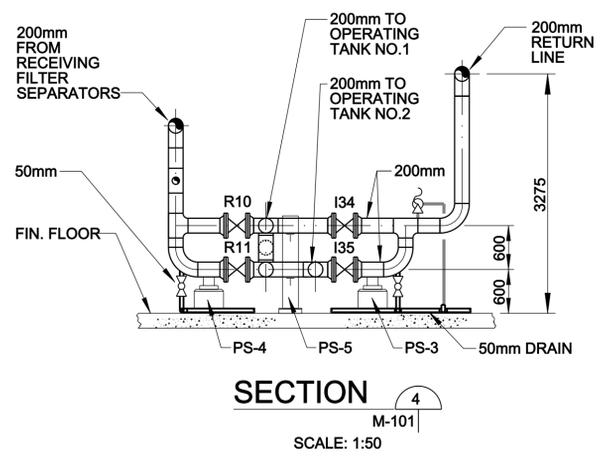
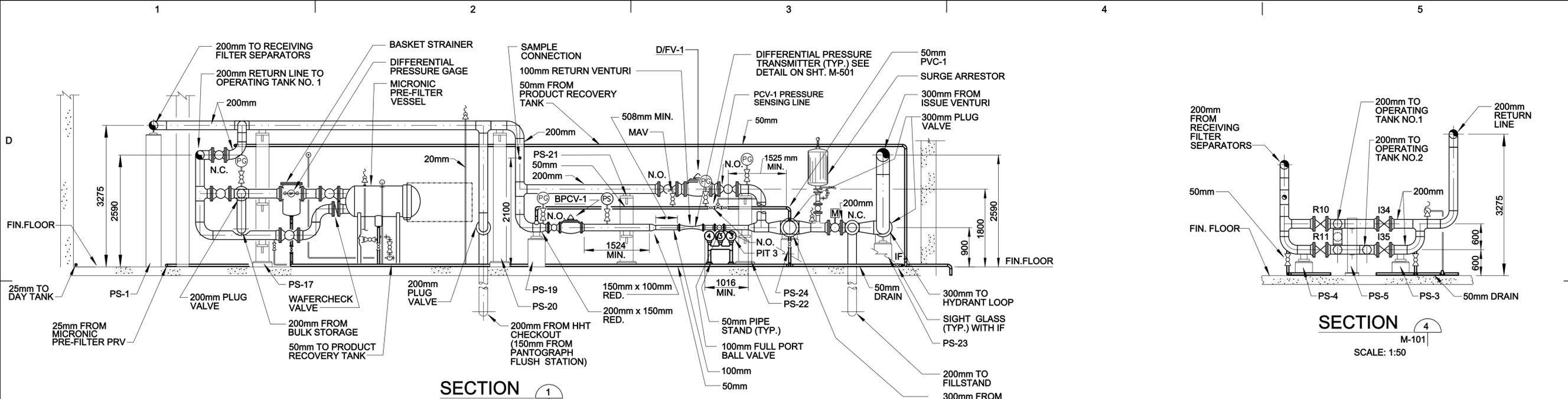
SHEET IDENTIFICATION NUMBER M-201



DESIGNER:
STRAINER ONLY OPTION

NOTES:
1. SEE SHEET M-001 FOR LEGEND

NOTES TO DESIGNER:
1. SETUP IS SHOWN FOR USE OF 600 GPM PUMPS. 900 GPM UNITS, THREE ACTIVE, ONE STANDBY, COULD BE USED PER DIRECTION FROM THE COMMAND FUELS FACILITY ENGINEER. IF 900 GPM PUMPS ARE USED, 900 GPM FILTER SEPARATORS SHALL ALSO BE USED.
2. RUN PIPE TO THE PRODUCT RECOVERY TANK OR A FUEL SYSTEM WASTE WATER TANK OR A WATER DRAW OFF TANK AS DIRECTED BY THE COMMAND FUEL FACILITY ENGINEER.

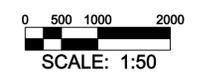


NOTES:

1. VALVE STEMS ON ALL MANUAL VALVES SHALL BE HORIZONTAL OR ABOVE WITH OPERATORS ON TOP OF VALVES.
2. SUPPORT 50mm DRAIN LINES WITH PIPE CENTERLINE 75mm ABOVE FINISHED FLOOR USE CHANNEL SUPPORTS WITH U BOLT ANCHORING.
3. MAV'S SHALL HAVE THREADED CAP.
4. DIMENSIONS BASED ON FLOOR ELEVATION OF 9400.

DESIGNER NOTES:

1. SHOWN WITH MICRONIC FILTER. USE SHEET M-301b FOR STRAINER ONLY



DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: JOSEPH L. DESEK	DATE: JULY 2010
DRAWN BY: T.D.F.	SOLICITATION NO.: W9128F-DX-X-00XX
SUBMITTED BY: MICHAEL T. SMITH	CONTRACT NO.: W9128F-DX-C-00XX
FILE NAME: 0040W-301c.dwg	FILE NUMBER: X
SIZE: 84x59 / 25 / in.	PLOT DATE: 7/9/2010

U. S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

DOD, CUTN COVER STANDARDS
FILTER BUILDING
PIPING SECTIONS

SHEET IDENTIFICATION NUMBER
M-301a

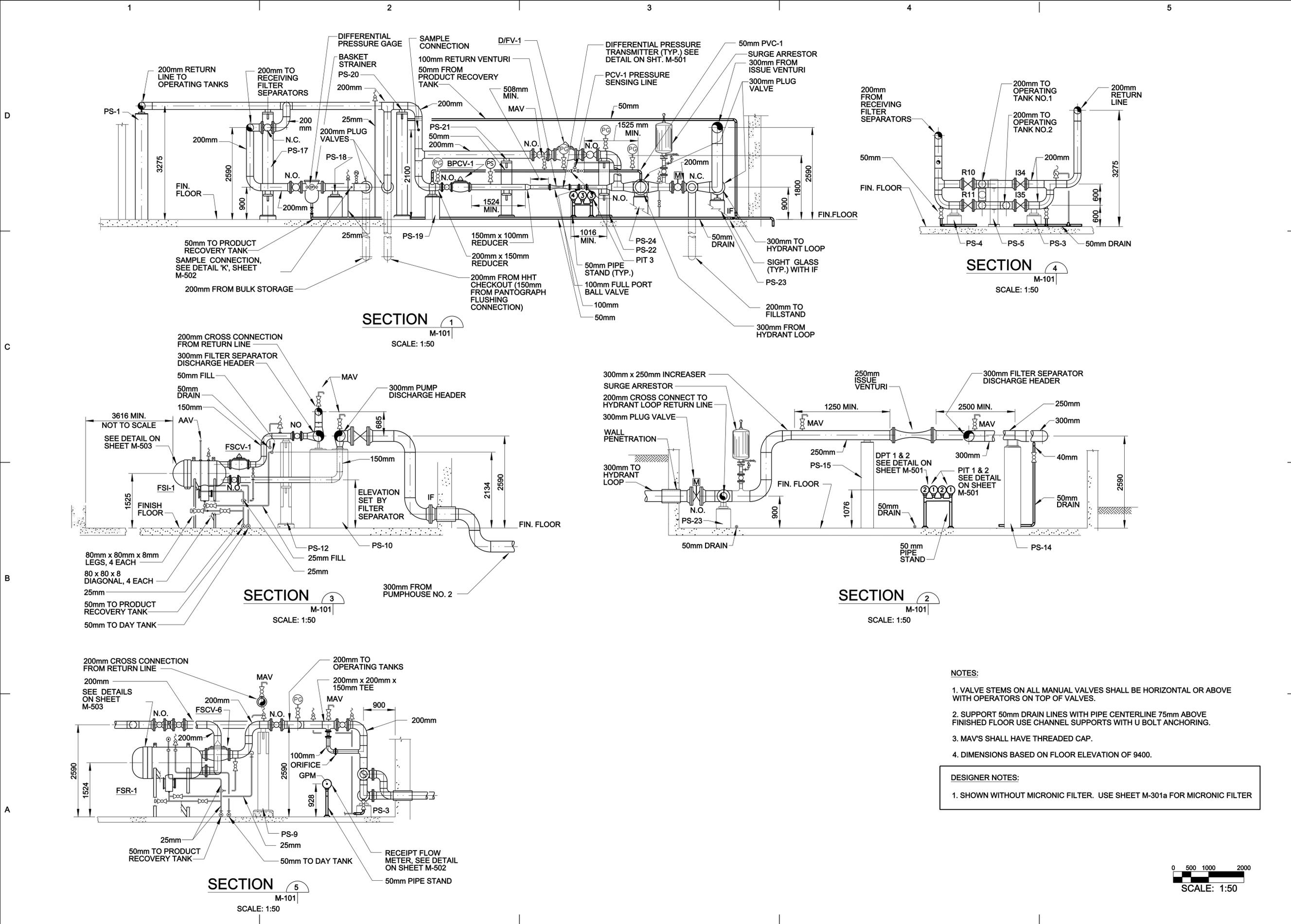
DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: JOSEPH J. DESEK	DATE: JULY 2010
DRAWN BY: T.D.F.	SOLICITATION NO.: W9128F-DX-C-00XX
SUBMITTED BY: MICHAEL T. SMITH	CONTRACT NO.: W9128F-DX-C-00XX
FILE NAME: 0040W-301b.dwg	FILE NUMBER: X
SIZE: 84x59 / 25 / in.	PLOT DATE: 7/9/2010

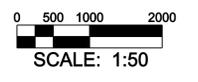
U. S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

DOD, CUTN COVER STANDARDS
FILTER BUILDING
PIPING SECTIONS

SHEET IDENTIFICATION NUMBER
M-301b



- NOTES:**
1. VALVE STEMS ON ALL MANUAL VALVES SHALL BE HORIZONTAL OR ABOVE WITH OPERATORS ON TOP OF VALVES.
 2. SUPPORT 50mm DRAIN LINES WITH PIPE CENTERLINE 75mm ABOVE FINISHED FLOOR USE CHANNEL SUPPORTS WITH U BOLT ANCHORING.
 3. MAV'S SHALL HAVE THREADED CAP.
 4. DIMENSIONS BASED ON FLOOR ELEVATION OF 9400.
- DESIGNER NOTES:**
1. SHOWN WITHOUT MICRONIC FILTER. USE SHEET M-301a FOR MICRONIC FILTER



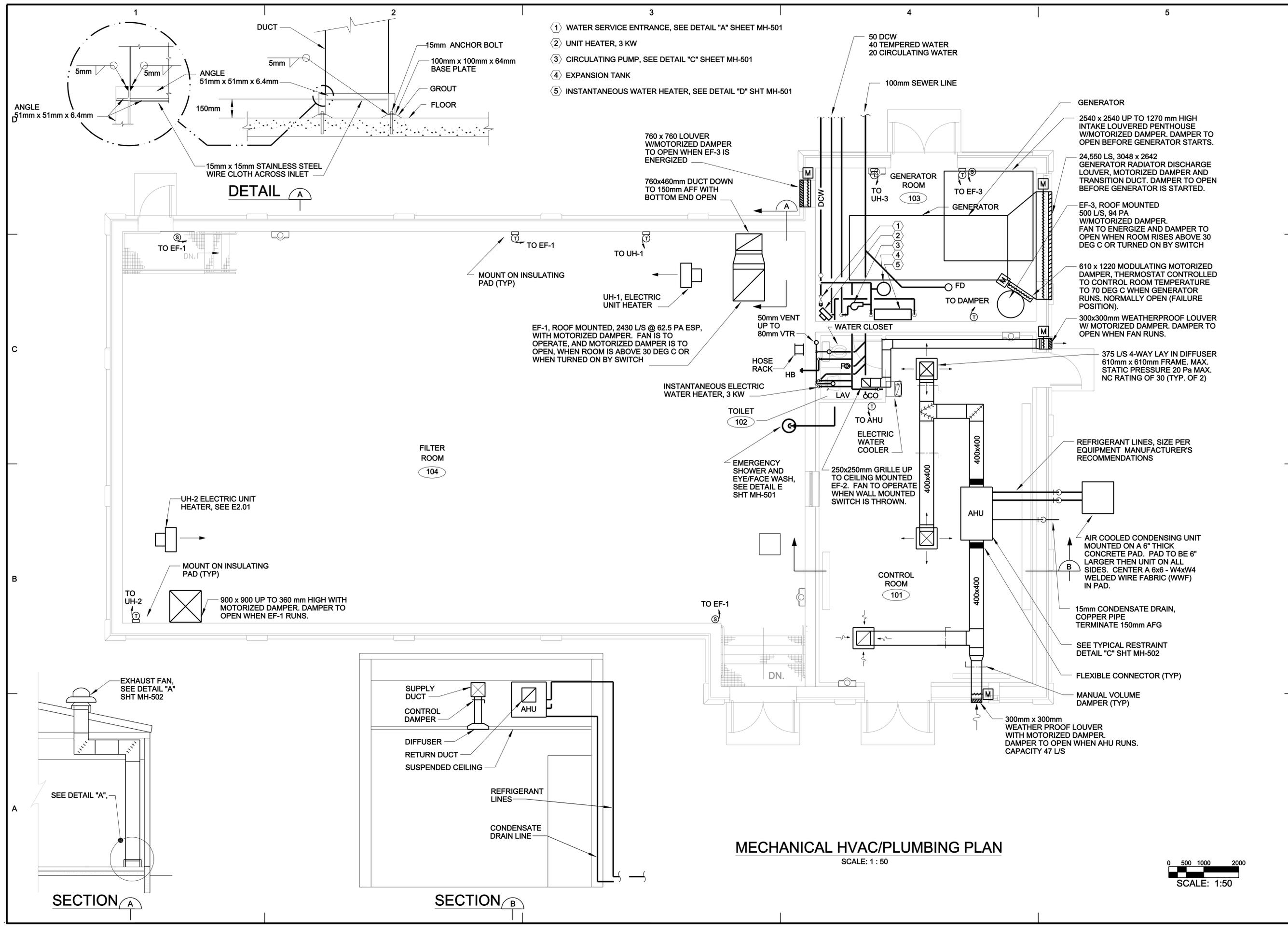
DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: C.R.G. MARGRAVE	DATE: JULY 2010
CHKD BY: J.J.F.	SOLICITATION NO.: W9128F-DX-C-00XX
APP'D BY: M.T. SMITH	CONTRACT NO.: W9128F-DX-C-00XX
FILE NAME: 0040MH101.dwg	FILE NUMBER: X
SIZE: 84x59 / 25 / in.	PLOT DATE: 7/9/2010
PLOT SCALE: 1/25	

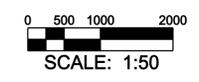
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

DOD - CUTN COVER STANDARDS
FILTER BUILDING
MECHANICAL PLAN

SHEET IDENTIFICATION NUMBER
MH101



MECHANICAL HVAC/PLUMBING PLAN
SCALE: 1 : 50



DATE	DESCRIPTION	APPR.	MARK

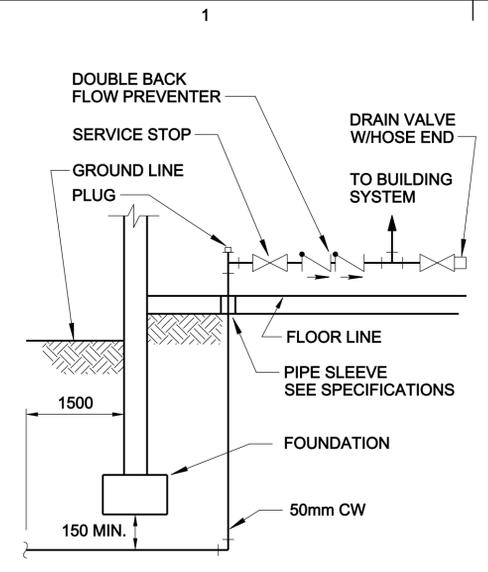
DESIGNED BY: CRIGOR QUARGAVE	DATE: JULY 2010
DRAWN BY: J.J.P.	CONTRACT NO.: W9128F-0X-C-00XX
SUBMITTED BY: MICHAEL T. SMITH	FILE NUMBER: 000MH501.dwg
FILE NAME: 000MH501.dwg	PLOT DATE: 7/21/2010
SIZE: 84x59	PLOT SCALE: 1" = 1'-0"

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

DOD, CUTN COVER STANDARDS
FILTER BUILDING

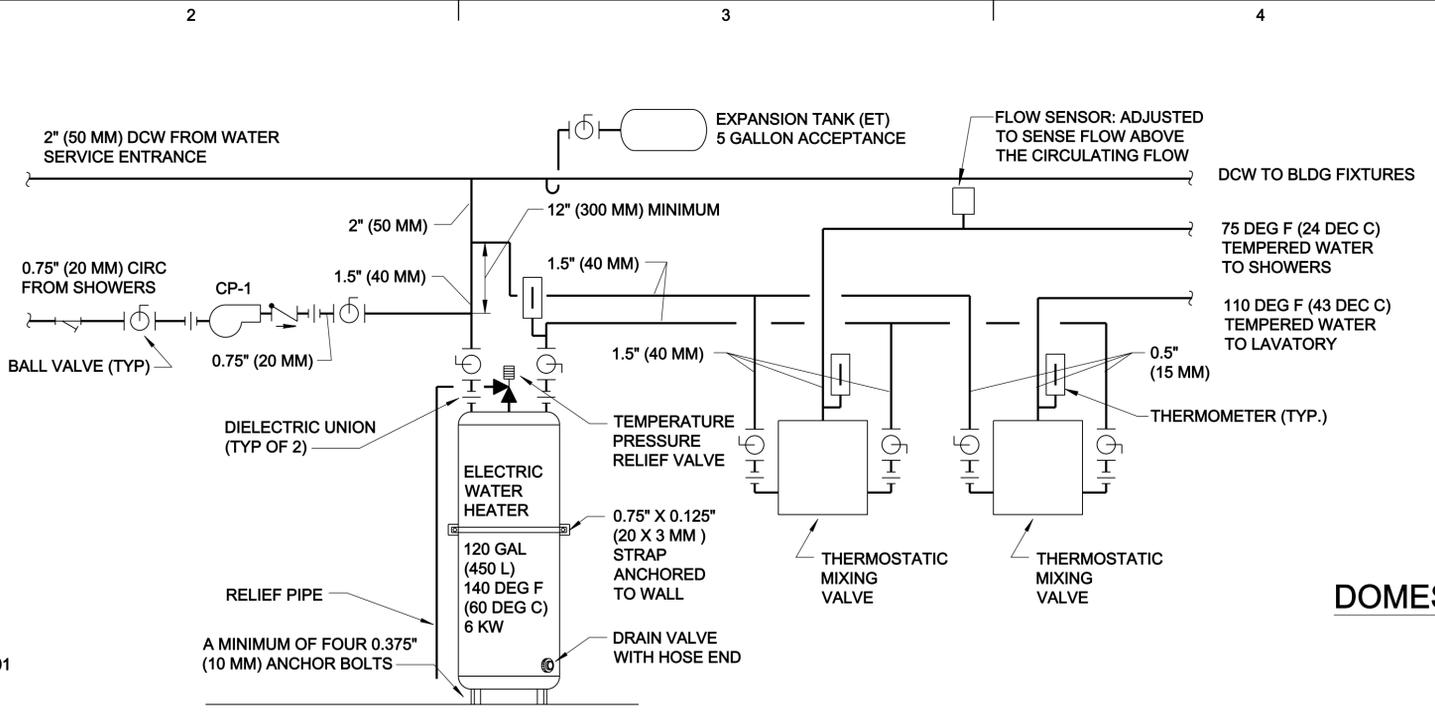
PUMPHOUSE
MECHANICAL DETAILS

SHEET IDENTIFICATION NUMBER
MH501



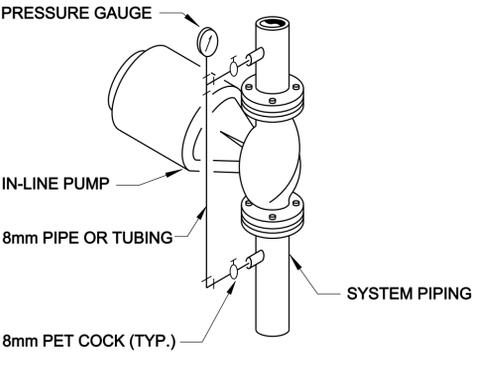
WATER SERVICE ENTRANCE

NO SCALE MH-101 | MH-501



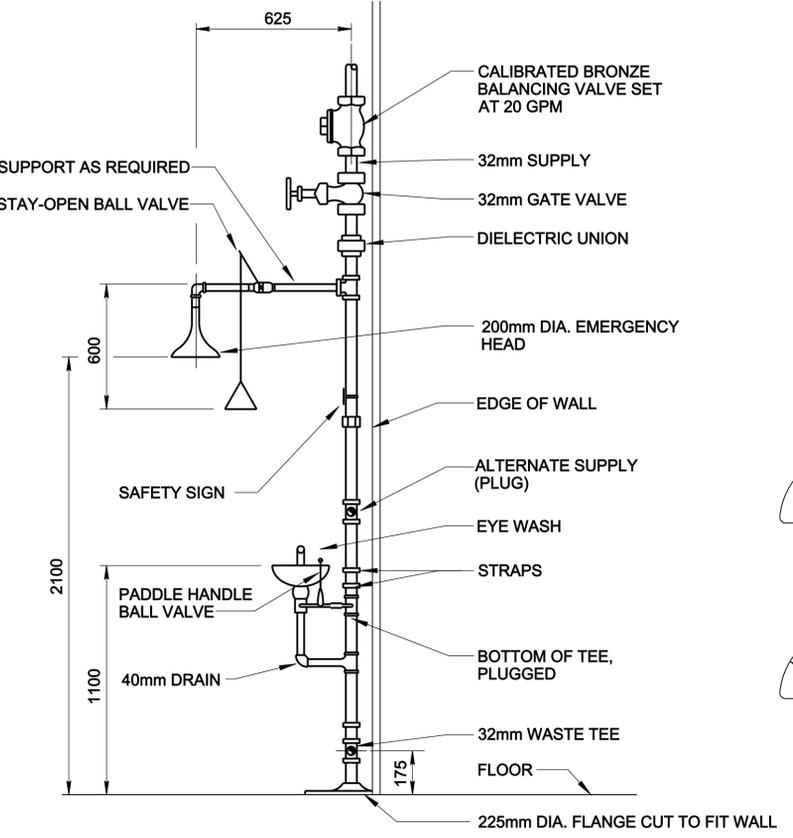
ELECTRIC WATER HEATER DETAIL

NO SCALE MH-101 | MH-501



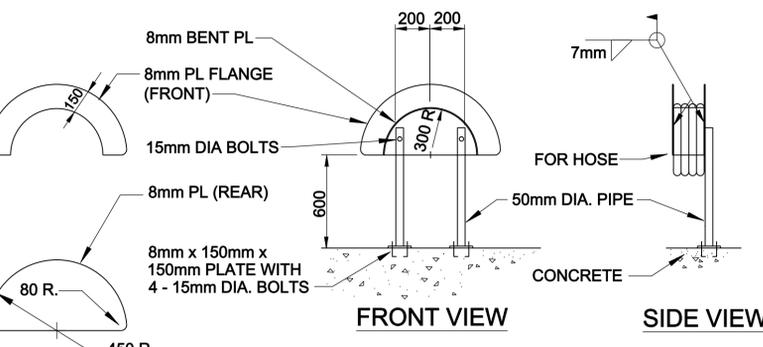
DOMESTIC HOT WATER PUMP DETAIL

NO SCALE MH-101 | MH-501



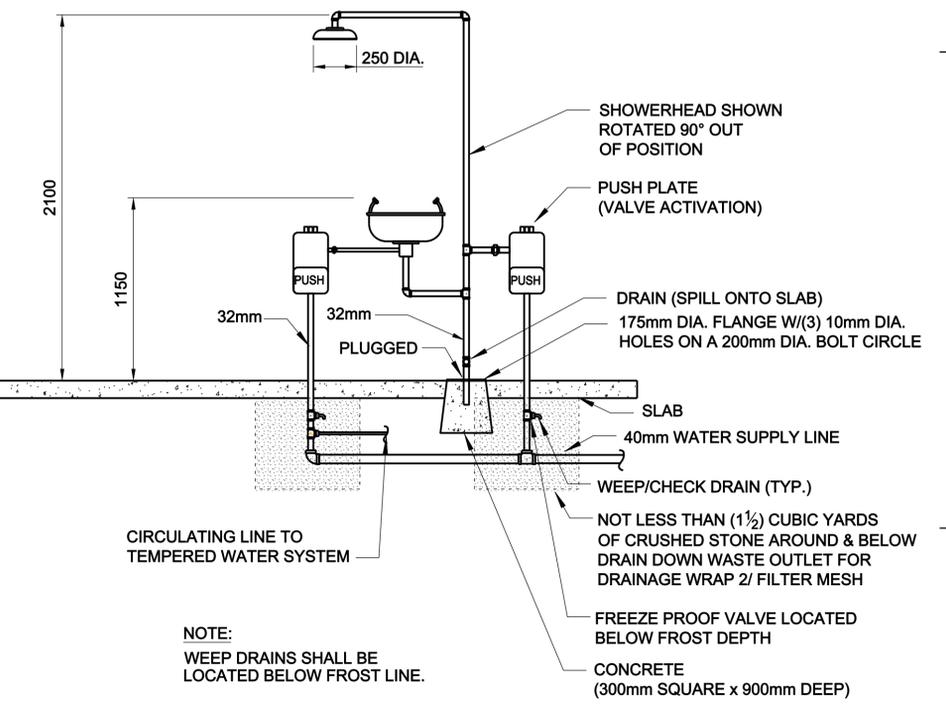
FROST PROOF EMERGENCY EYE WASH AND SHOWER DETAIL (PUMP ROOM)

NO SCALE MH-101 | MH-501



HOSE RACK DETAILS

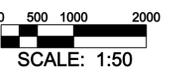
SCALE: 1:50 MH-101 | MH-501



EXTERIOR EMERGENCY SHOWER AND EYE/FACE WASH DETAIL

NO SCALE GEN | MH-501

NOTE TO DESIGNER:
1. RECOMMENDED SHOWER AND EYEWASH IN UNHEATED PUMP SHELTERS WHERE FREEZING COULD OCCUR.
2. EMERGENCY SHOWER/EYEWASH NOT REQUIRED AT EVERY FILLSTAND OR CHECKOUT, BUT WITHIN 100 FEET OF THEM.



NOTE TO DESIGNER:
IN AREAS SUBJECT TO FREEZING CONDITIONS SHOWER AND APPURTENANCES SHALL BE HEAT TRACED (WITH THERMOSTATIC CONTROL), INSULATED, AND COVERED BY MOLDED ABS PLASTIC JACKETING, ALL OF WHICH SHALL BE A STANDARD PRODUCT OF THE SHOWER MANUFACTURER. HOSE BIBB ADJACENT TO SHOWER SHALL BE HEAT TRACED ALSO.

I:\pumpmech\040MH501.dwg gfrediff