

FLOW DIAGRAM
NO SCALE

NOTES:
1. SEE SHEET M-001 FOR NOTES, LEGEND

SEE SHEET M-001 FOR DESIGNER NOTES
DELETE THIS REFERENCE WHEN COMPLETE

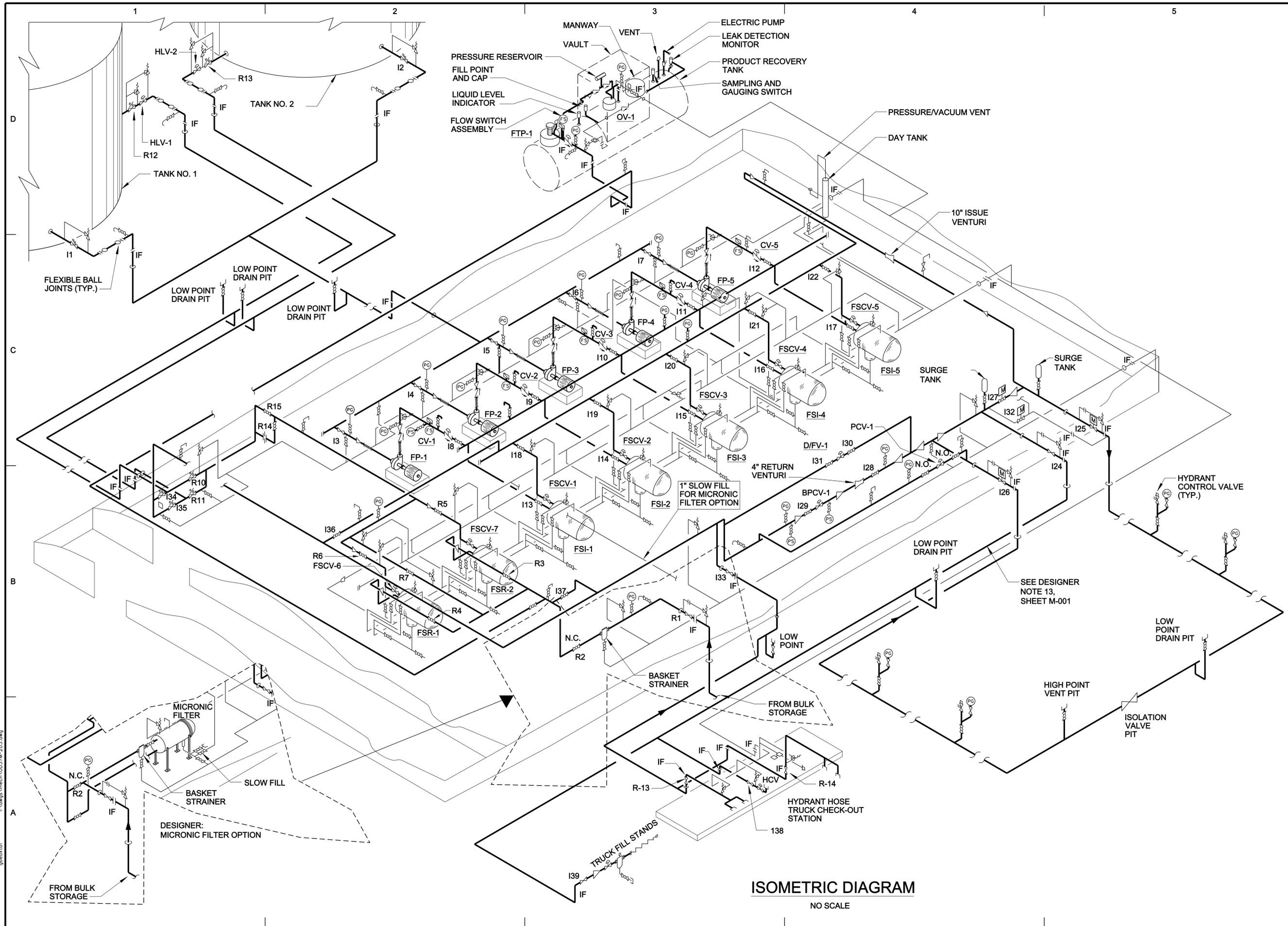


DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: J. BESEK	DATE: JULY 2000
DRAWN BY: C.R.A.P.	SOLICITATION NO.:
SUBMITTED BY: MICHAEL T. SMITH	CONTRACT NO.:
FILE NAME: 0037M-201a.dwg	FILE NUMBER:
SIZE: 33.1x22	PLOT NUMBER: X
	PLOT DATE: 7/7/2010
	PLOT SCALE: 1" = 1' / in.

DOD PRESSURIZED FUELING SYSTEM TYPE III
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA DISTRICT

SHEET IDENTIFICATION NUMBER
M-201a



DATE	DESCRIPTION	APPR. MARK

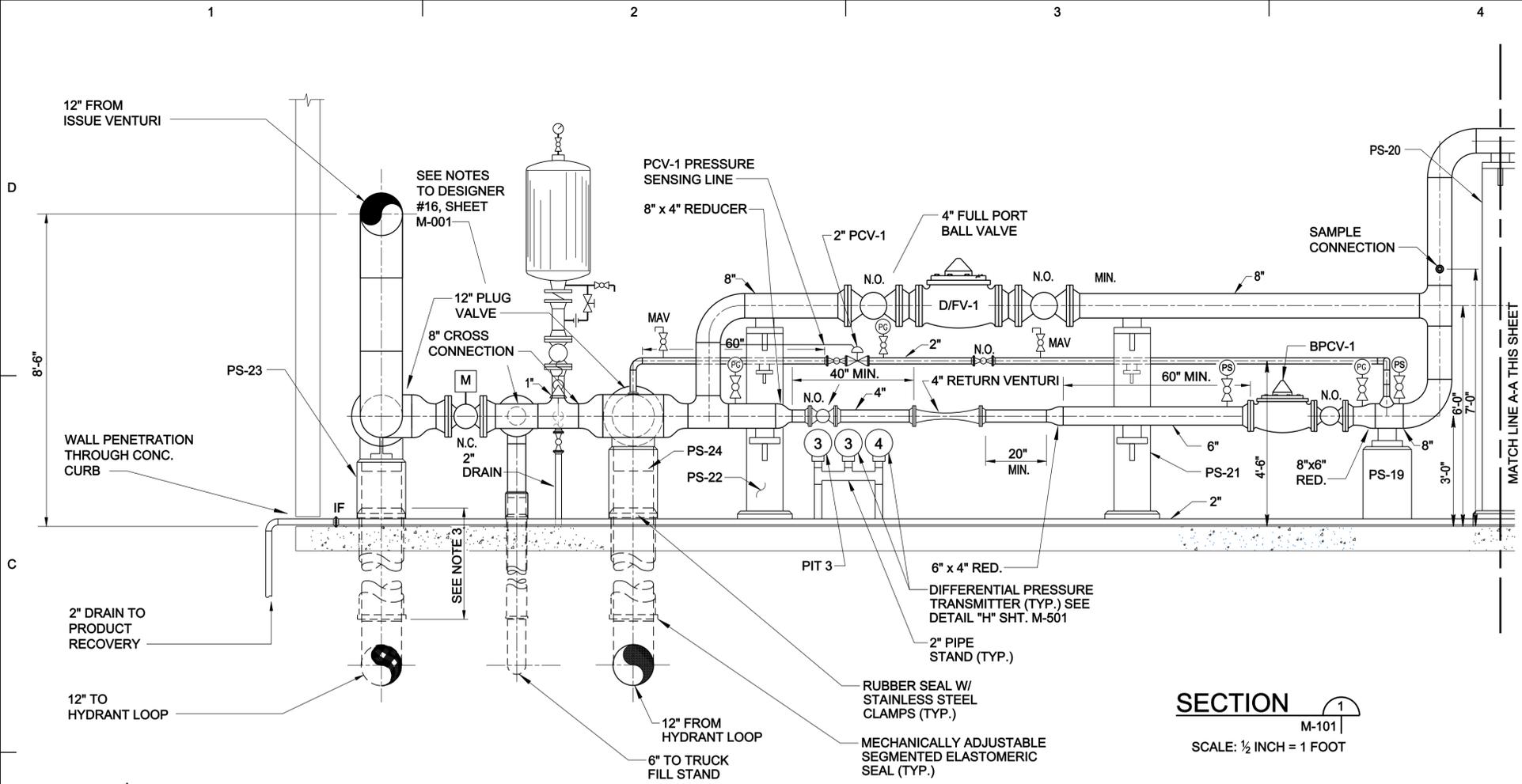
DESIGNED BY: J. J. DEBEK	ISSUED BY: J. J. DEBEK	DATE: JULY 2010
DRAWN BY: C.R.A.P.	CONTRACT NO.:	
SUBMITTED BY: MICHAEL T. SMITH	FILE NUMBER:	
FILE NAME: 0037M-203.dwg	PLOT DATE: 7/7/2010	
SIZE: 33.1x22	PLOT SCALE: 0'-1" = 1'-7" IN.	

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

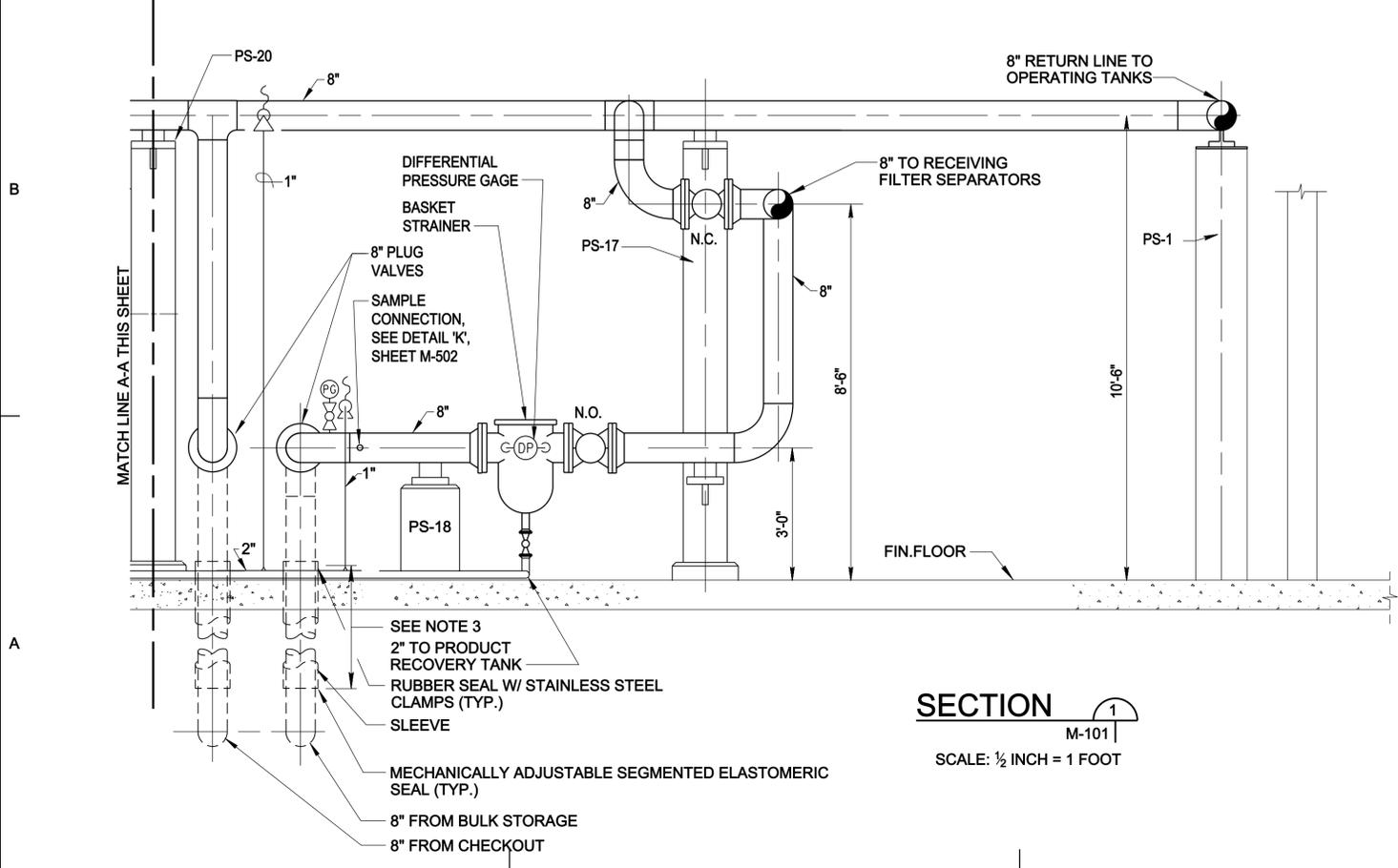
DOD PRESSURIZED FUELING SYSTEM TYPE III
ISOMETRIC DIAGRAM

SHEET IDENTIFICATION NUMBER
M-203

I:\vdggs\mech\0037M-203.dwg



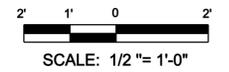
SECTION M-101
SCALE: 1/2 INCH = 1 FOOT



SECTION M-101
SCALE: 1/2 INCH = 1 FOOT

- NOTES:
1. VALVE STEMS ON ALL MANUAL VALVES SHALL BE HORIZONTAL OR ABOVE WITH OPERATORS ON TOP OF VALVES.
 2. SUPPORT 2" DRAIN LINES WITH PIPE CENTERLINE 3" ABOVE FINISHED FLOOR USE CHANNEL SUPPORTS WITH U BOLT ANCHORING.
 3. THE TOP OF THE SLEEVE SHALL BE A MINIMUM OF 6" ABOVE GRADE AND THE BOTTOM OF THE SLEEVE SHALL BE BELOW FROST.
 4. DIMENSIONS BASED ON A FLOOR ELEVATION OF 99'-6".

- NOTES TO DESIGNER:
1. SHOWN WITHOUT MICRONIC FILTER SEE M-301b FOR WITH MICRONIC FILTER.



DATE	DESCRIPTION	APPR.	MARK

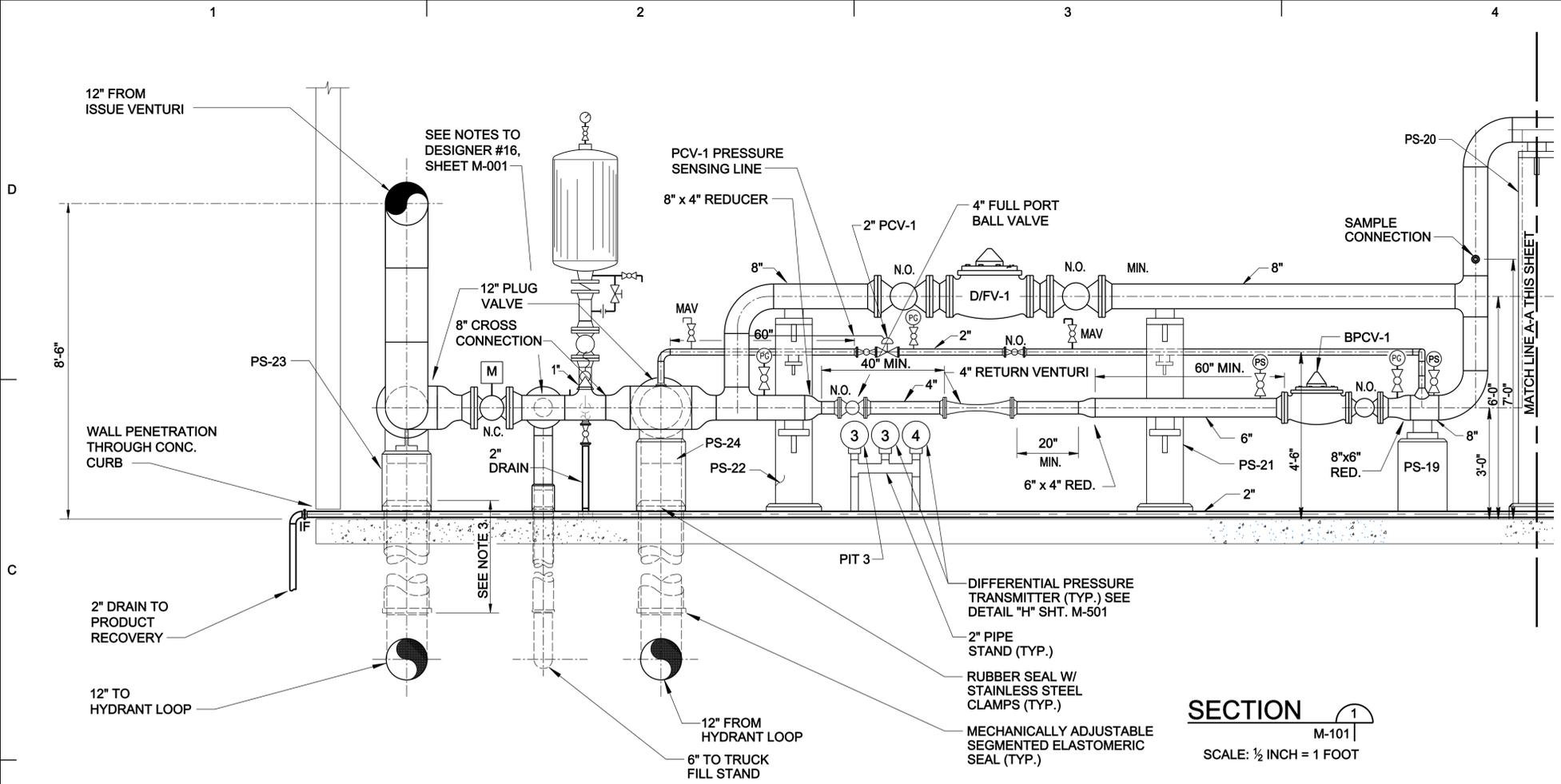
DESIGNED BY: J. DESEK	DATE: JULY 2010
DRAWN BY: C.R.M.	SOLICITATION NO.:
SUBMITTED BY: MICHAEL T. SMITH	CONTRACT NO.:
FILE NAME: 0037M-301a.dwg	FILE NUMBER:
SIZE: 33.1x22	PLOT DATE: 7/7/2010
PLOT SCALE: 0'-1" = 1'-0"	

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

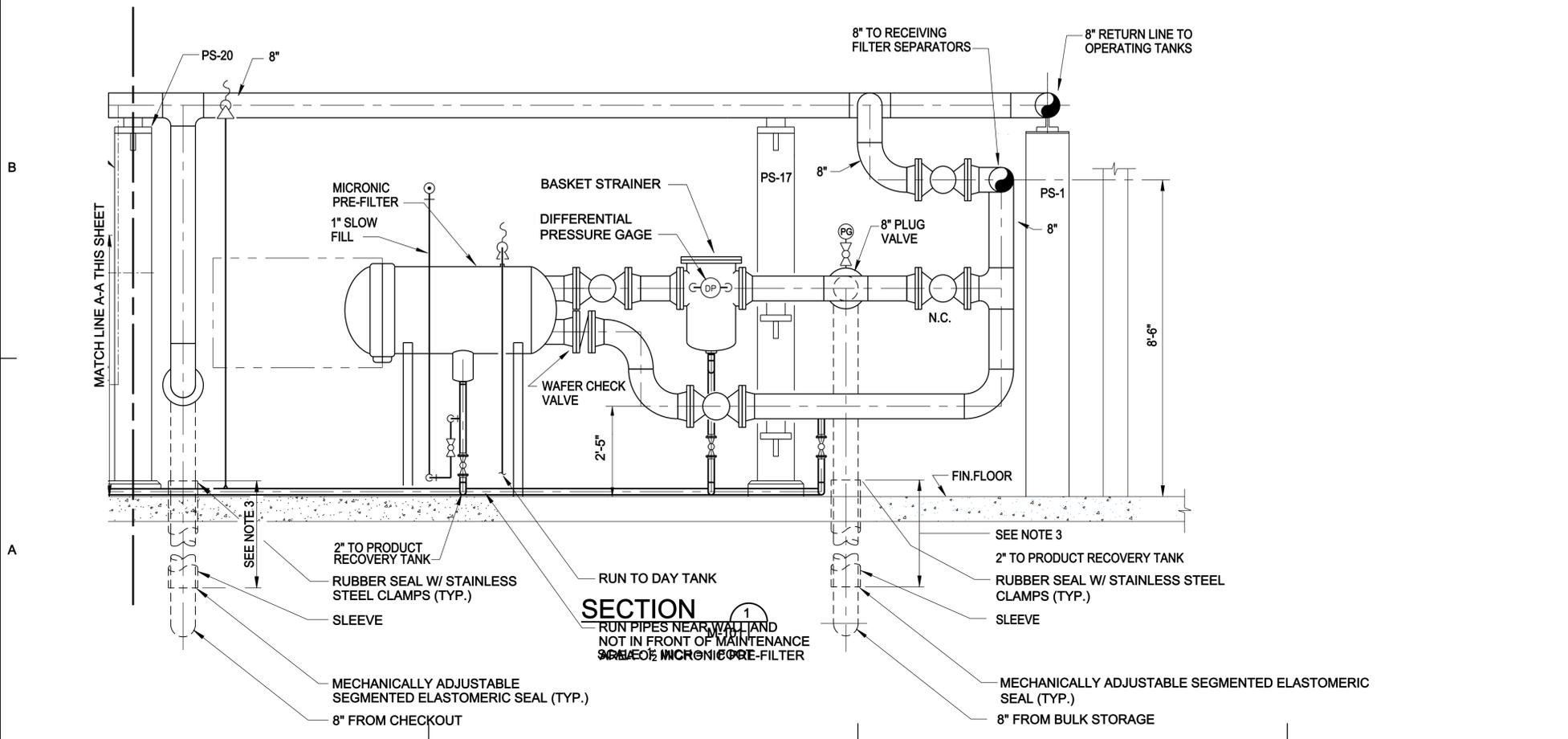
DOD PRESSURIZED FUELING SYSTEM TYPE III
PIPING SECTION

SHEET IDENTIFICATION NUMBER
M-301a

I:\vdwg\mech\0037M-301a.dwg



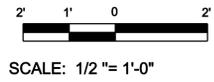
SECTION M-101
SCALE: 1/2 INCH = 1 FOOT



SECTION M-301a
SCALE: 1/2 INCH = 1 FOOT

- NOTES:
1. VALVE STEMS ON ALL MANUAL VALVES SHALL BE HORIZONTAL OR ABOVE WITH OPERATORS ON TOP OF VALVES.
 2. SUPPORT 2" DRAIN LINES WITH PIPE CENTERLINE 3" ABOVE FINISHED FLOOR USE CHANNEL SUPPORTS WITH U BOLT ANCHORING.
 3. THE TOP OF THE SLEEVE SHALL BE A MINIMUM OF 6" ABOVE GRADE AND THE BOTTOM OF THE SLEEVE SHALL BE BELOW FROST.
 4. DIMENSIONS BASED ON A FLOOR ELEVATION OF 99'-6".

- NOTES TO DESIGNER:
1. SHOWN WITH MICRONIC FILTER SEE M-301a FOR NO MICRONIC FILTER.



DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: J. J. DESEK	DATE: JULY 2000
DRAWN BY: C.R.M.	SOLICITATION NO.:
SUBMITTED BY: MICHAEL T. SMITH	CONTRACT NO.:
FILE NAME: 0037M-301a.dwg	FILE NUMBER:
SIZE: 33.1x22	PLOT DATE: 7/7/2010
PLOT SCALE: 0'-1" = 1'-0"	

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

DOD PRESSURIZED FUELING SYSTEM TYPE III
PIPING SECTION

SHEET IDENTIFICATION NUMBER
M-301b

I:\vdggs\mech\0037M-301a.dwg

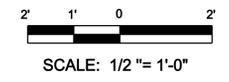
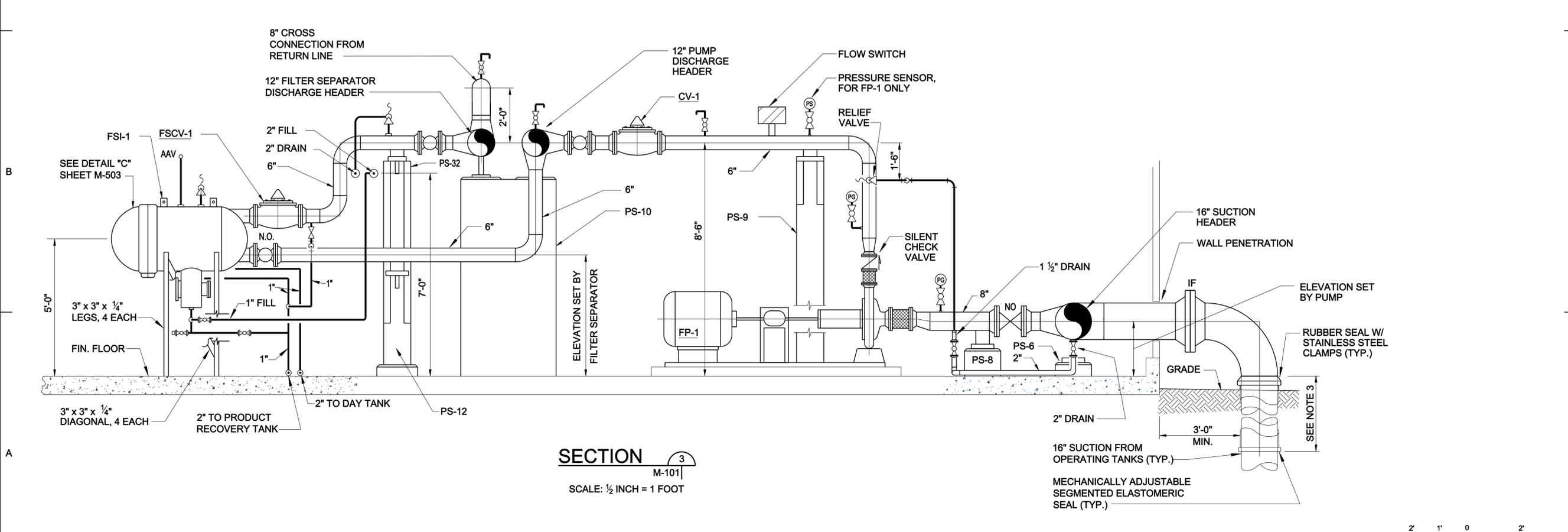
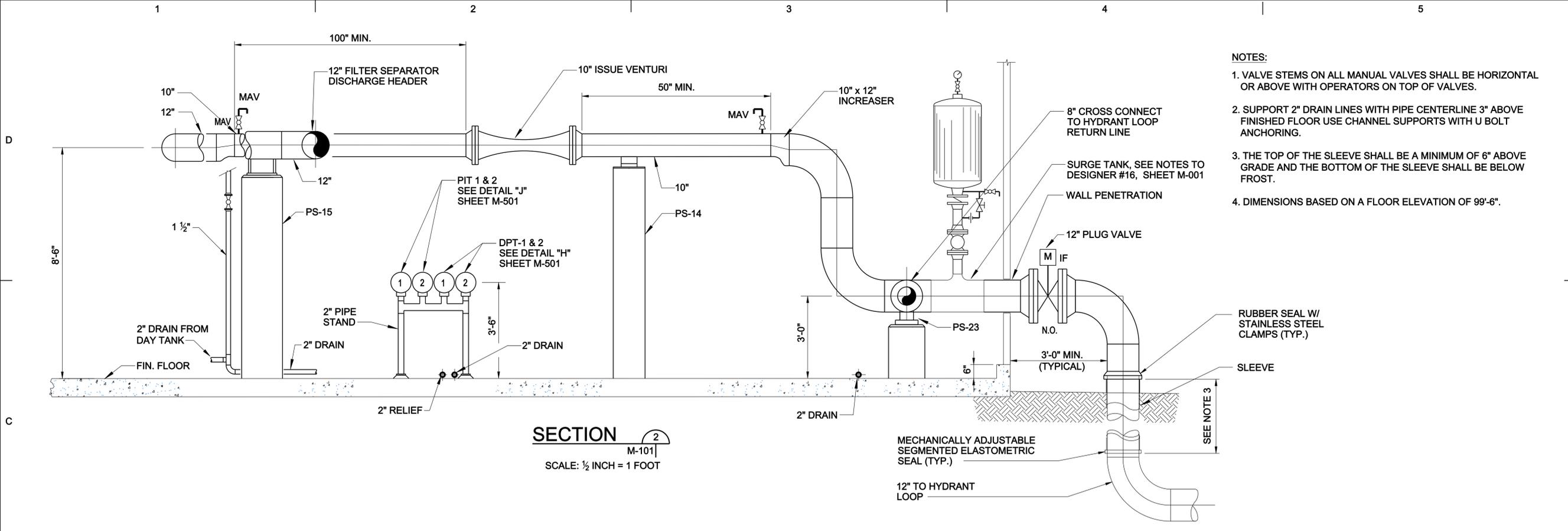
DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: J. J. DESEK	DATE: JULY 2010
DRAWN BY: C.R.M.	SOLICITATION NO.:
SUBMITTED BY: MICHAEL T. SMITH	CONTRACT NO.:
FILE NAME: 0037M-302.dwg	FILE NUMBER:
SIZE: 33.1x22	PLOT DATE: 7/7/2010
PLOT SCALE: 0'-1" = 1'-0"	PLOT NUMBER: X

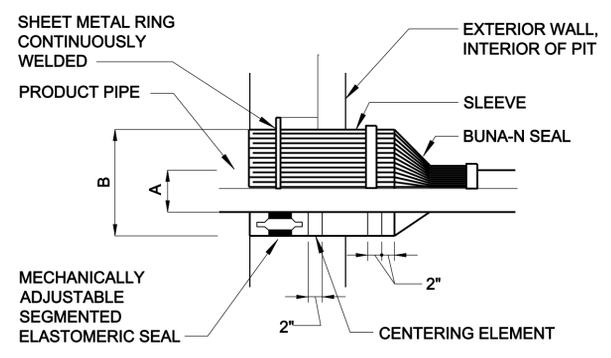
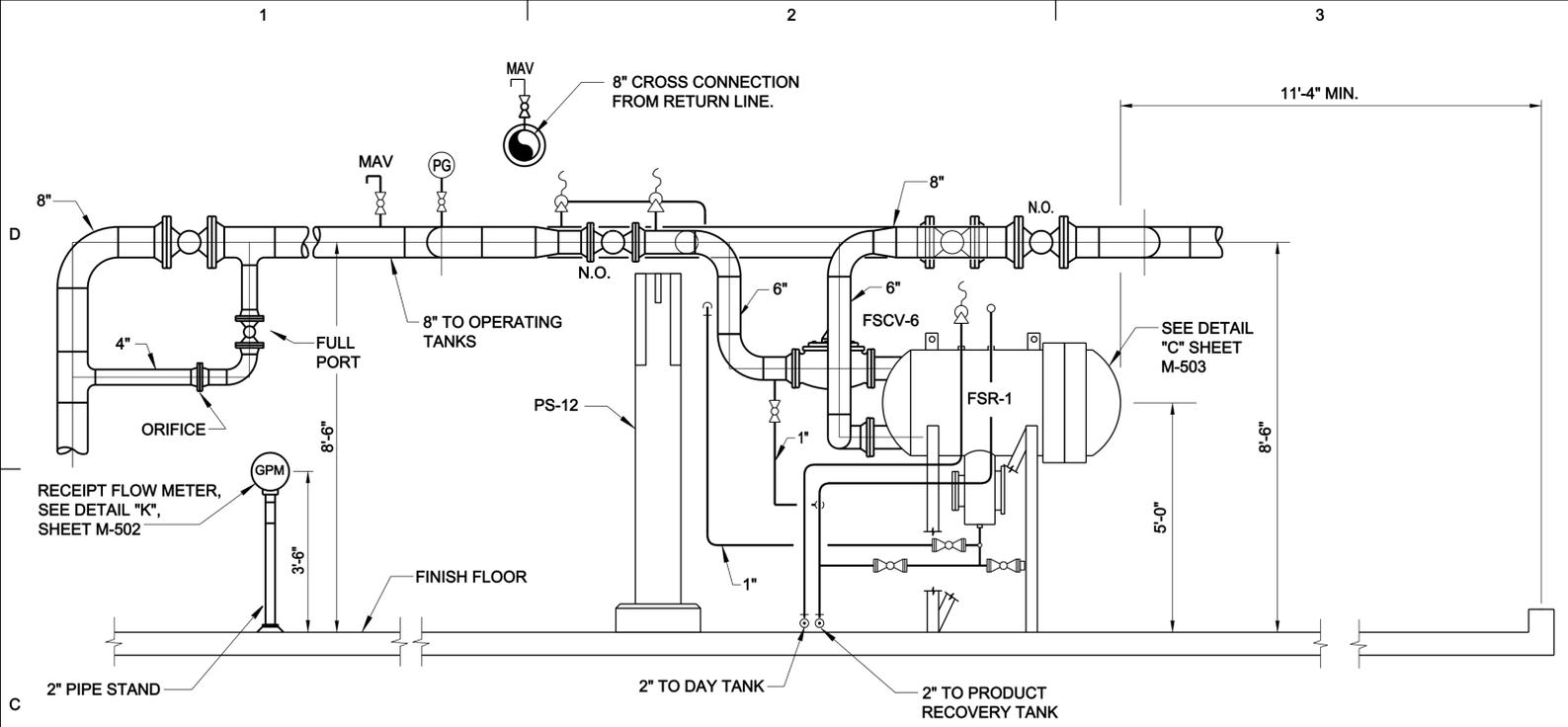
DOD PRESSURIZED FUELING SYSTEM TYPE III
 PIPING SECTIONS

SHEET IDENTIFICATION NUMBER
M-302

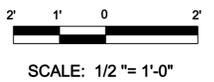
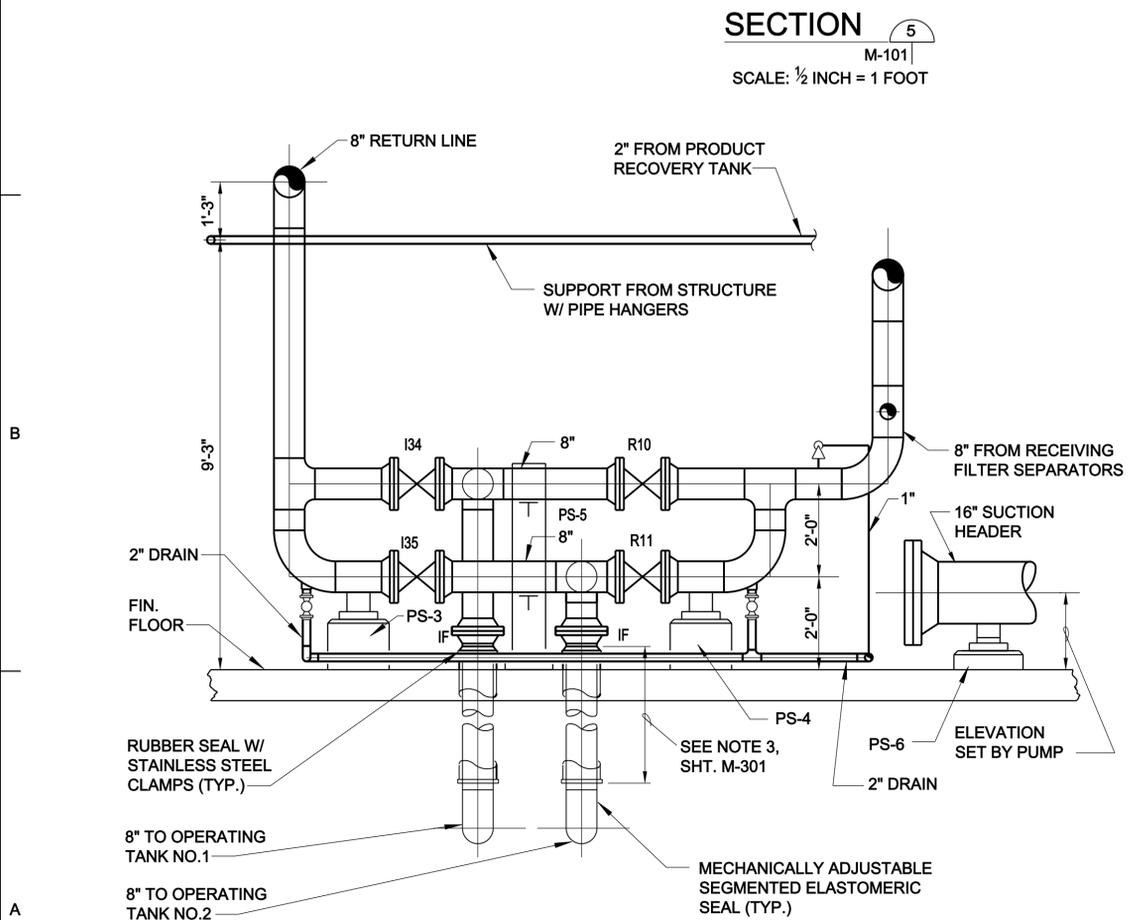
- NOTES:
1. VALVE STEMS ON ALL MANUAL VALVES SHALL BE HORIZONTAL OR ABOVE WITH OPERATORS ON TOP OF VALVES.
 2. SUPPORT 2" DRAIN LINES WITH PIPE CENTERLINE 3" ABOVE FINISHED FLOOR USE CHANNEL SUPPORTS WITH U BOLT ANCHORING.
 3. THE TOP OF THE SLEEVE SHALL BE A MINIMUM OF 6" ABOVE GRADE AND THE BOTTOM OF THE SLEEVE SHALL BE BELOW FROST.
 4. DIMENSIONS BASED ON A FLOOR ELEVATION OF 99'-6".



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PRODUCT PIPE	A	B
12"	12 3/4" DIA.	16" DIA.
8"	8 5/8" DIA.	12 3/4" DIA.
6"	6 5/8" DIA.	10 3/4" DIA.
4"	4 1/2" DIA.	8 5/8" DIA.
2"	2 3/8" DIA.	3 1/2" DIA.



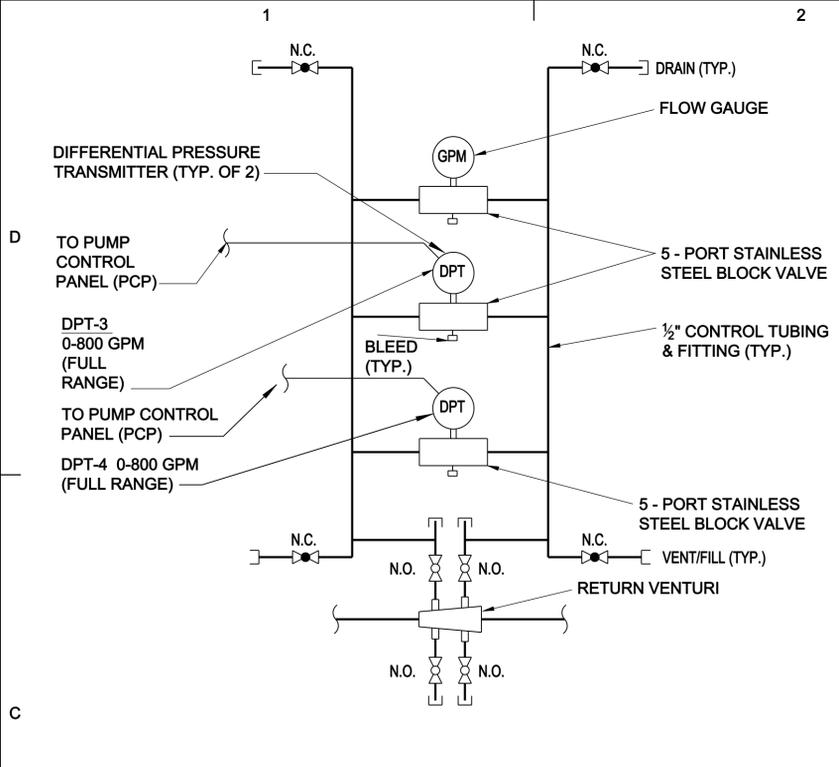
DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: J. BESEK	DATE: JULY 2010
DRAWN BY: C.R.M.	SOLICITATION NO.:
SUBMITTED BY: MICHAEL T. SMITH	CONTRACT NO.:
FILE NAME: 0037M-303.dwg	FILE NUMBER:
SIZE: 33.1KX2	PLOT DATE: 7/7/2010
PLOT SCALE: 0'-1" = 1'-0"	

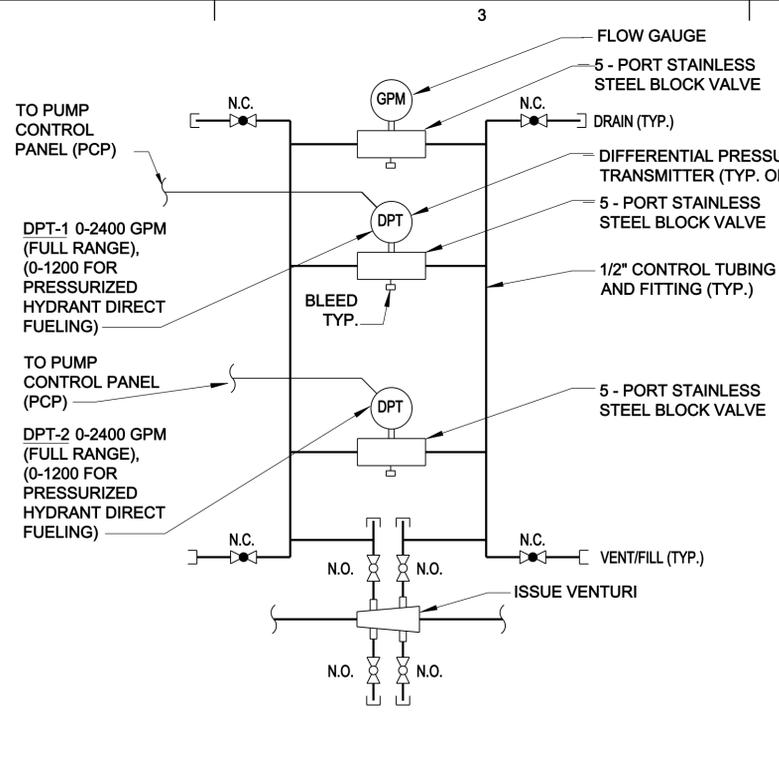
DOD PRESSURIZED FUELING SYSTEM TYPE III
 PIPING SECTIONS AND DETAILS

SHEET IDENTIFICATION NUMBER
M-303

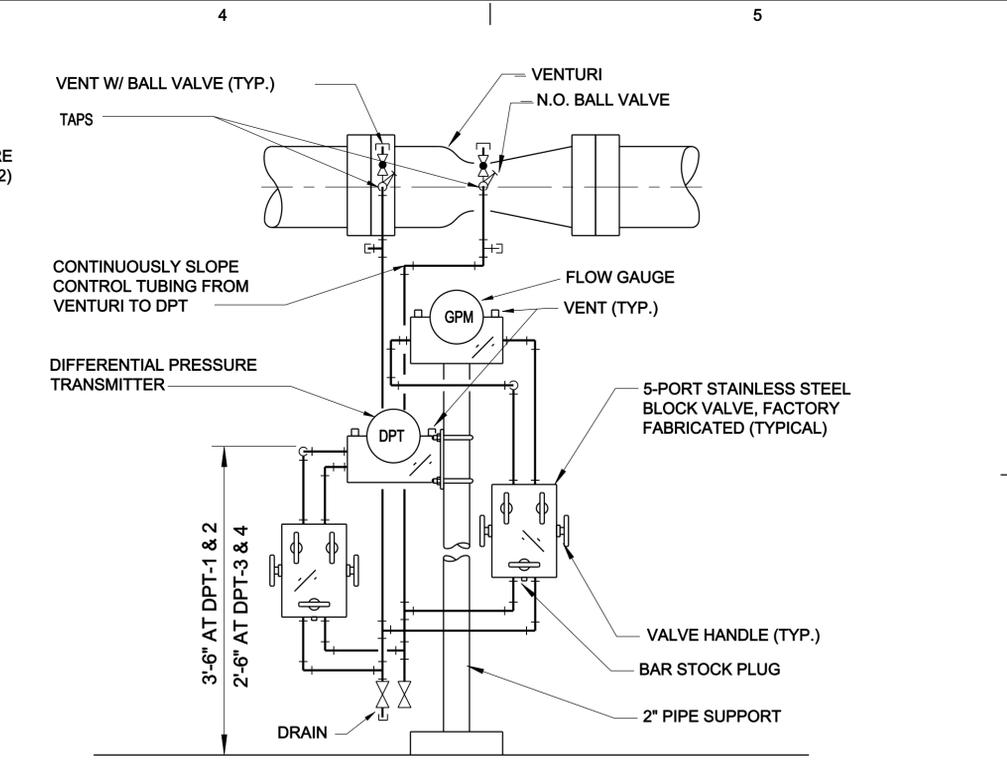
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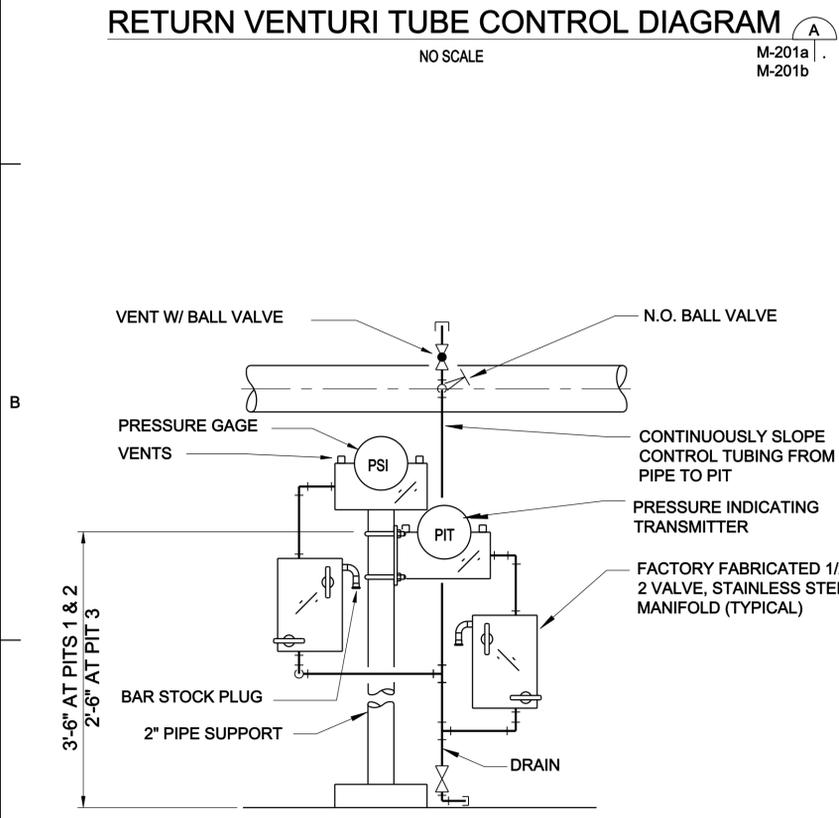
RETURN VENTURI TUBE CONTROL DIAGRAM (A)
NO SCALE
M-201a
M-201b



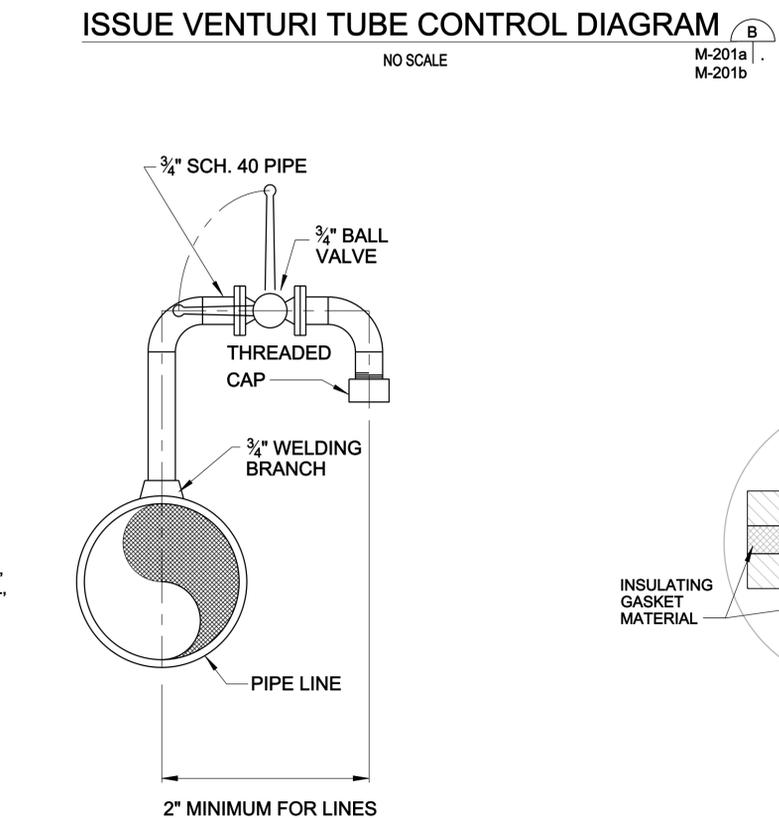
ISSUE VENTURI TUBE CONTROL DIAGRAM (B)
NO SCALE
M-201a
M-201b



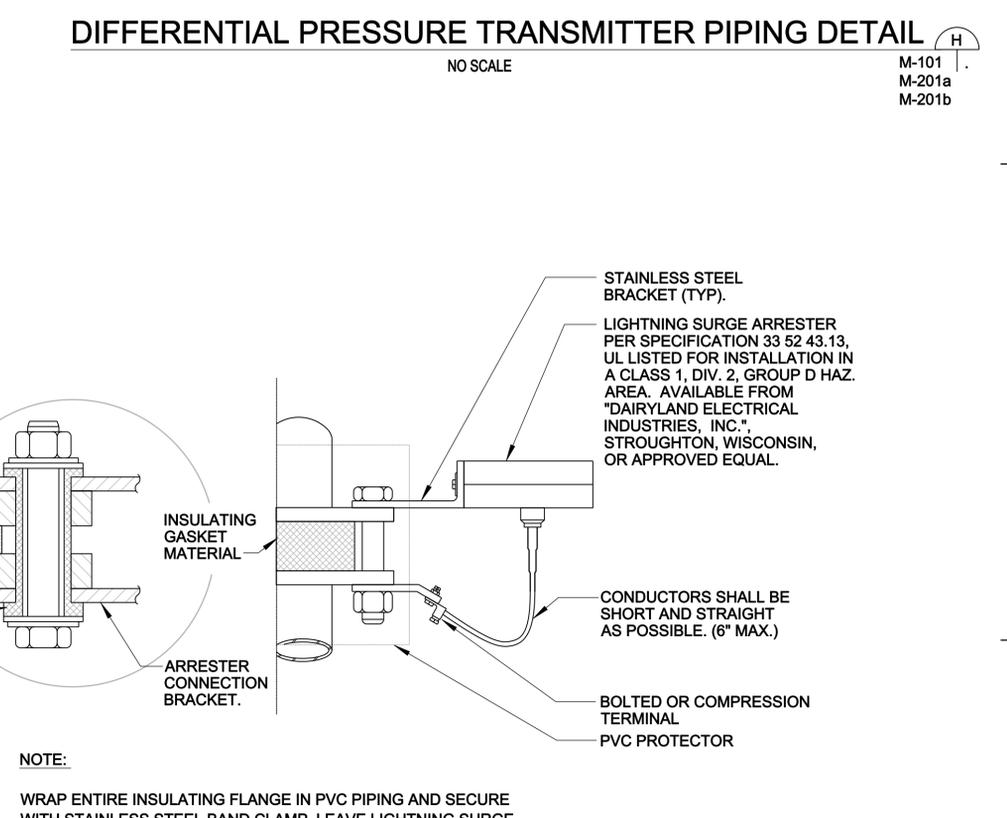
DIFFERENTIAL PRESSURE TRANSMITTER PIPING DETAIL (H)
NO SCALE
M-101
M-201a
M-201b



PRESSURE TRANSMITTER PIPING DETAIL (J)
NO SCALE
M-101



MANUAL AIR VENT (K)
NO SCALE
GEN



LIGHTNING SURGE ARRESTER DETAIL (D)
NO SCALE

DATE	DESCRIPTION	APPR. MARK	DATE	APPR. MARK

DATE: JULY 2010	SOLICITATION NO.:	FILE NUMBER:	PLOT DATE:
DESIGNED BY: D.F. BESEK	CONTRACT NO.:	FILE NUMBER:	7/7/2010
DRAWN BY: C.R.M.			
SUBMITTED BY: MICHAEL T. SMITH			
FILE NAME: 0037M-501.dwg			
SIZE: 33.1x22			

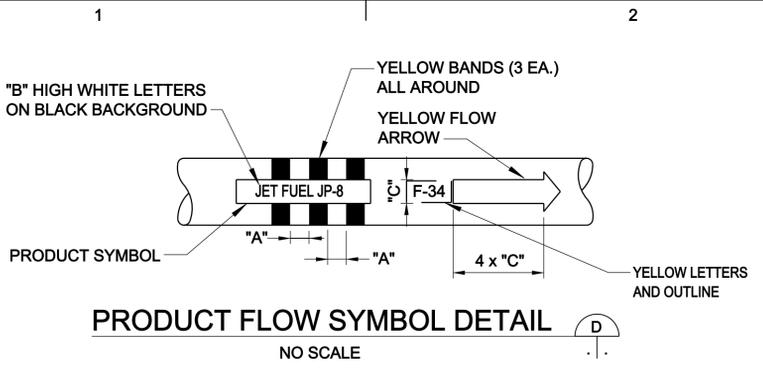
DOD PRESSURIZED FUELING SYSTEM TYPE III
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA DISTRICT
MECHANICAL DETAILS

DATE	DESCRIPTION	APPR. MARK

DATE: JULY 2010	SOLICITATION NO.:	DATE: 7/7/2010
DESIGNED BY: J. BESEK	CONTRACT NO.:	FILE NUMBER: X
DRAWN BY: C.R.P.	FILE NAME: 0037M-502.dwg	SIZE: 33.1x22
USED BY: M.C.H.	FILE NUMBER: X	PLOT SCALE: 0.1" = 1"
SUBMITTED BY: MICHAEL T. SMITH		

DOD PRESSURIZED FUELING SYSTEM TYPE III
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA DISTRICT

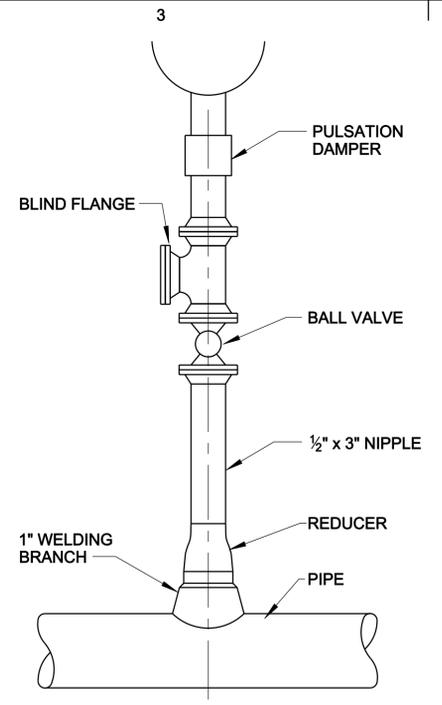
SHEET IDENTIFICATION NUMBER
M-502



PRODUCT FLOW SYMBOL DETAIL

NO SCALE

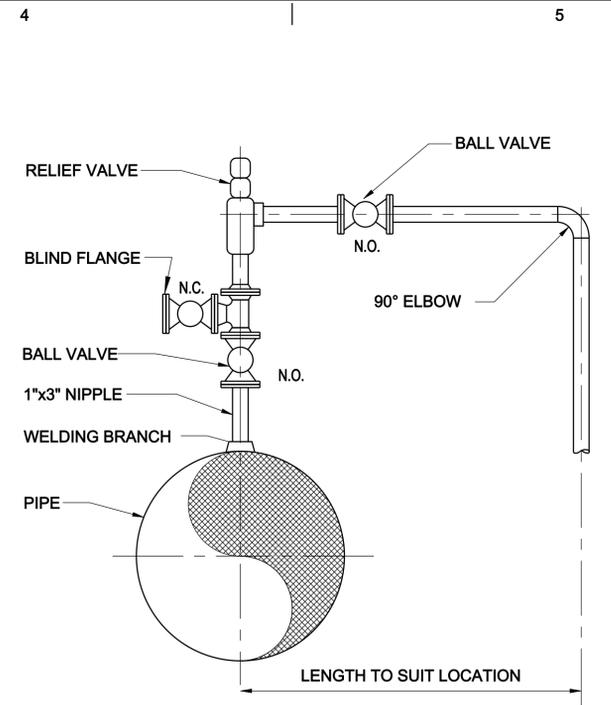
SIZES OF LETTERS AND BANDS			
PIPE DIAMETER (INCHES)	A BAND WIDTH AND SPACING (INCHES)	B TITLE LETTER SIZE (INCHES)	C BACKGROUND AND ARROWS (INCHES)
UNDER 3	3	0.5	1
3 - 6	3	1	2
6 - 9	3	2	3
OVER 9	4	3	4.5



PRESSURE GAGE PIPE CONNECTION DETAIL

NO SCALE

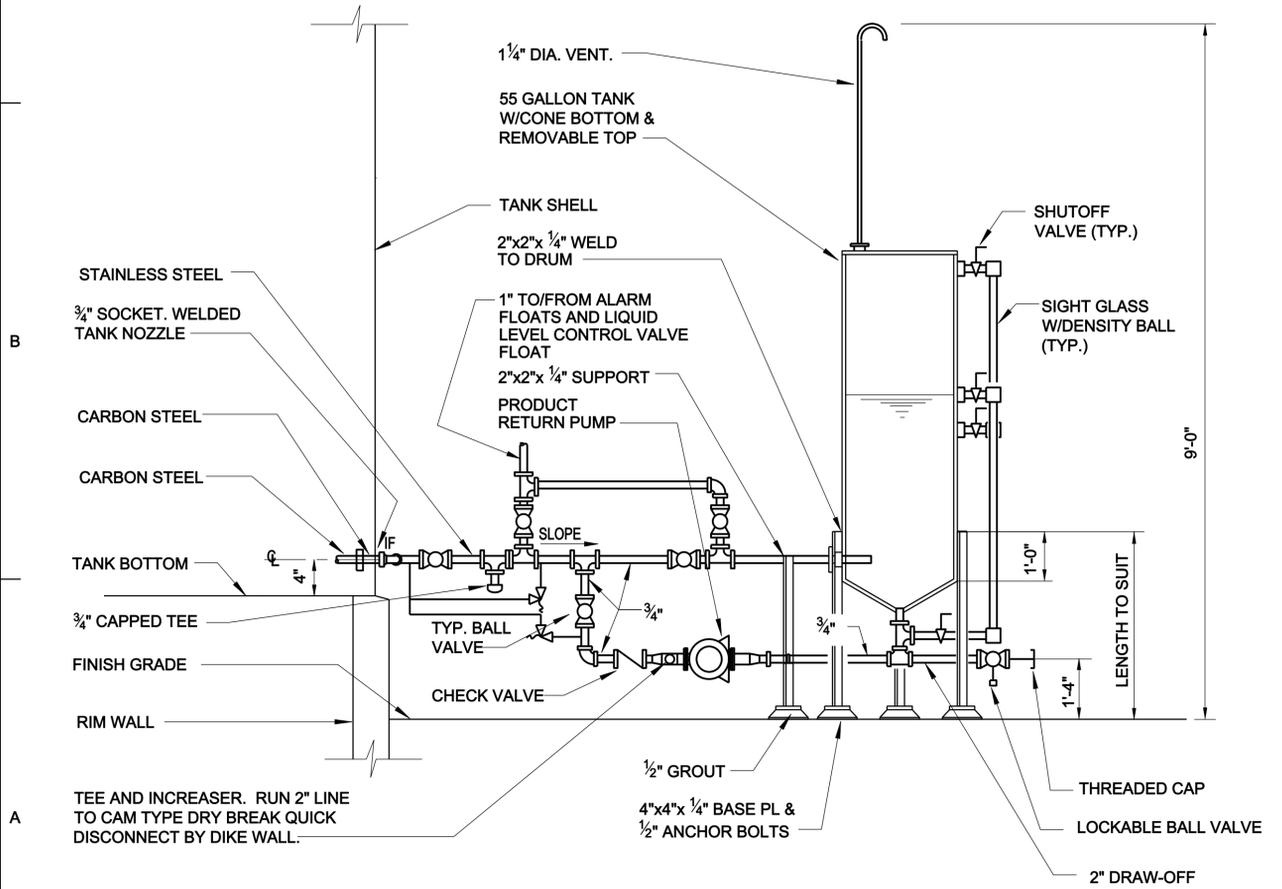
M-201a
M-201b



NOTE:
ON FILTER SEPARATORS, LOCK BALL VALVE OPEN USING PLASTIC STRAPS (CAR SEALS)

RELIEF VALVE PIPING DETAIL

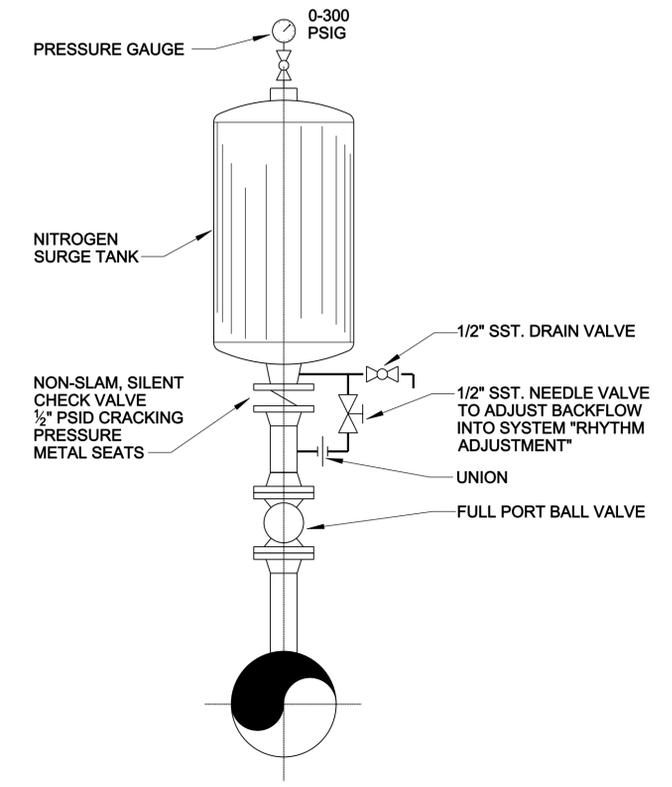
NO SCALE



WATER DRAW-OFF SYSTEM DETAIL

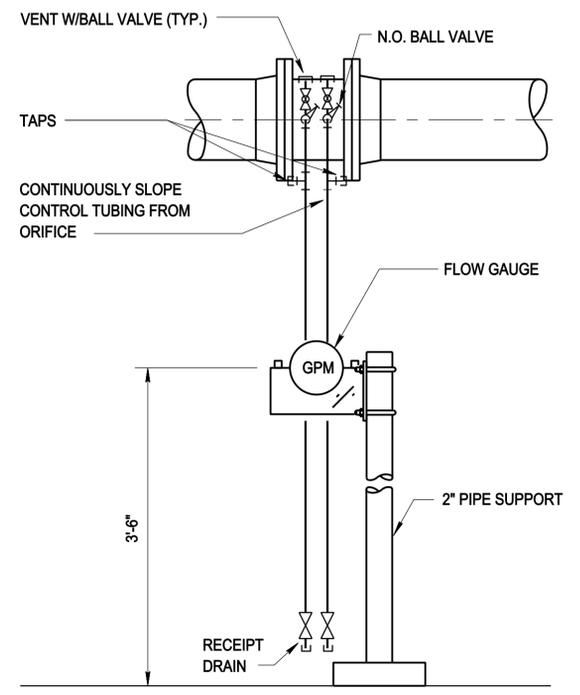
NO SCALE

M-201a



SURGE SUPPRESSOR TANK DETAIL

NO SCALE



RECEIPT FLOW METER DETAIL

NO SCALE

M-101
M-502
M-303

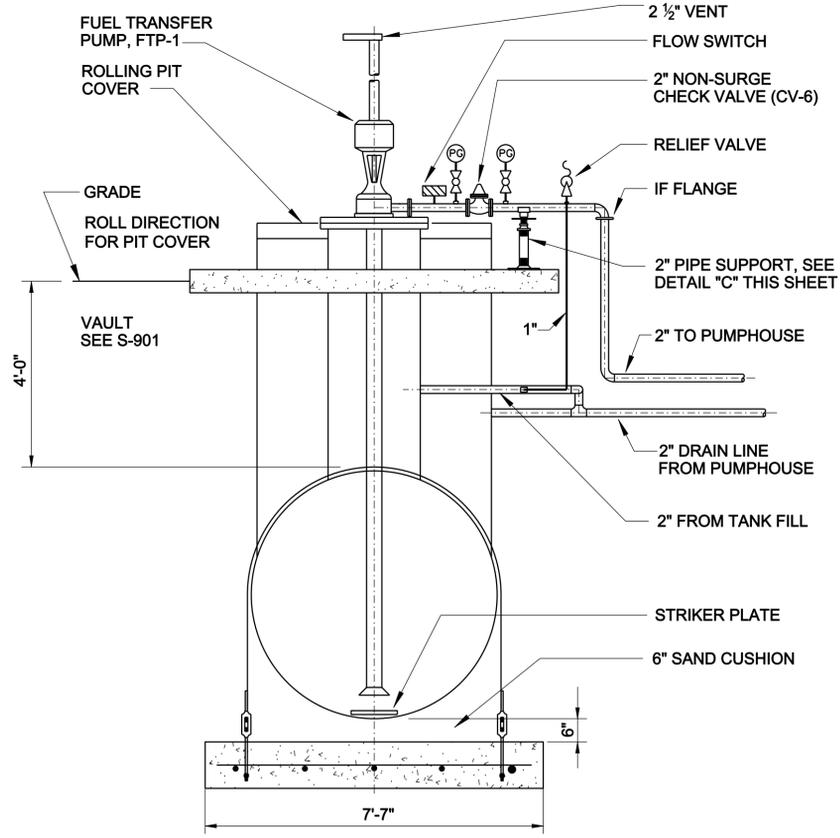
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DATE	DESCRIPTION	APPR.	MARK

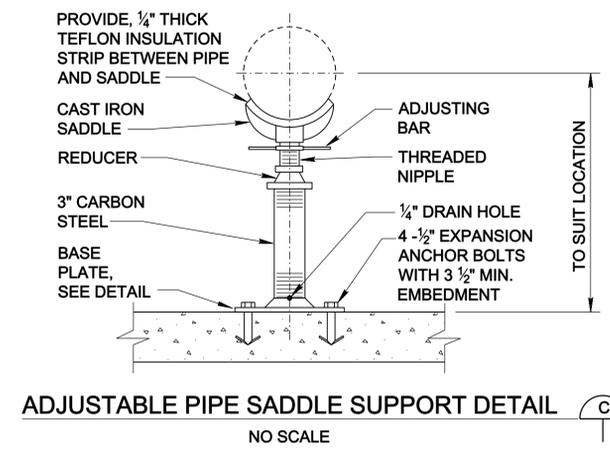
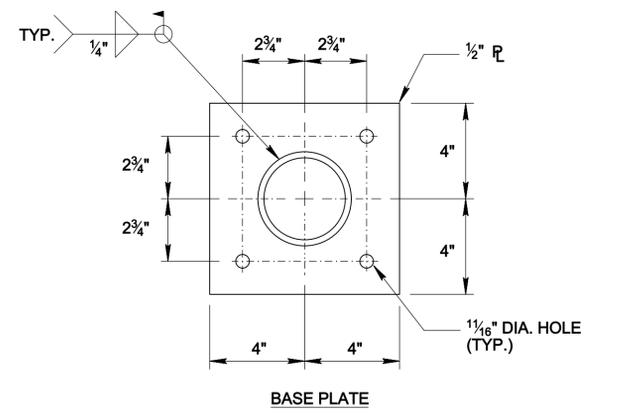
DESIGNED BY: J. J. BESEK	DATE: JULY 2010
DRAWN BY: C.R.M.	SOLICITATION NO.:
SUBMITTED BY: MICHAEL T. SMITH	CONTRACT NO.:
FILE NAME: 0037M-505.dwg	FILE NUMBER:
SIZE: 33.1x22	PLOT DATE: 7/7/2010
PLOT SCALE: 0'-1" = 1'-7" IN.	

DOD PRESSURIZED FUELING SYSTEM TYPE III
 PRODUCT RECOVERY TANK
 SHEET 2 OF 2

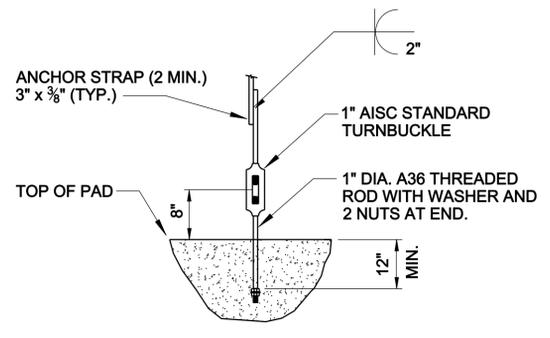
SHEET IDENTIFICATION NUMBER
M-505



SECTION 2
 M-504
 NO SCALE



ADJUSTABLE PIPE SADDLE SUPPORT DETAIL
 NO SCALE



DETAIL B
 M-504
 NO SCALE

I:\vdw\ggs\mech\0037M-505.dwg

DATE	DESCRIPTION	APPR.	MARK

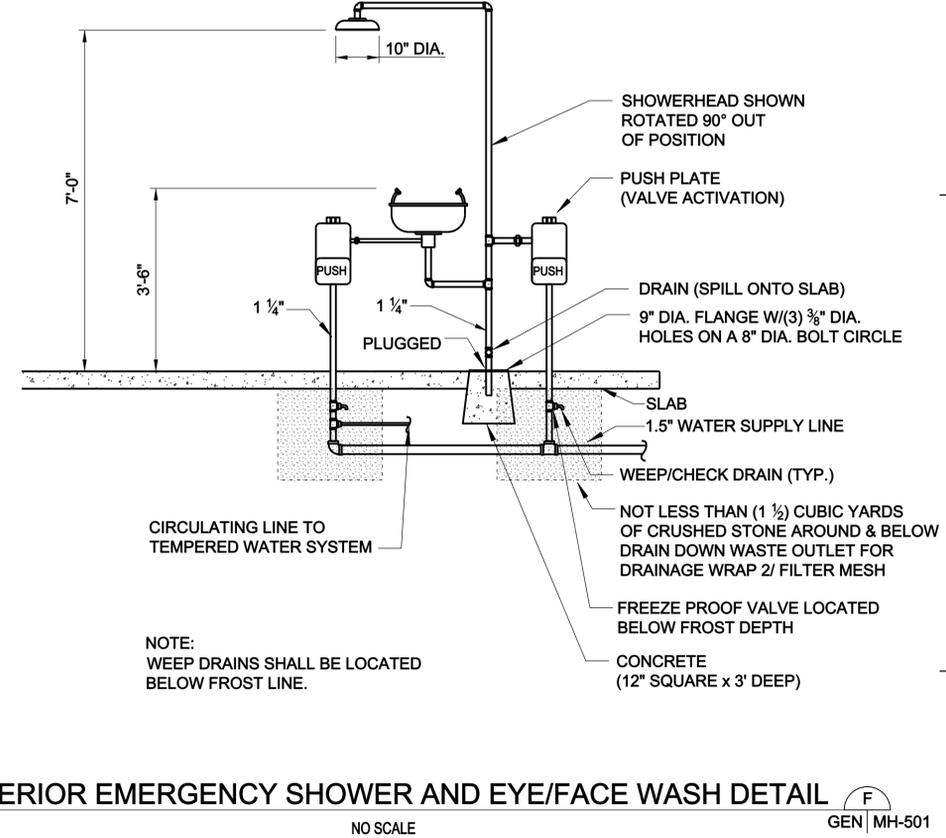
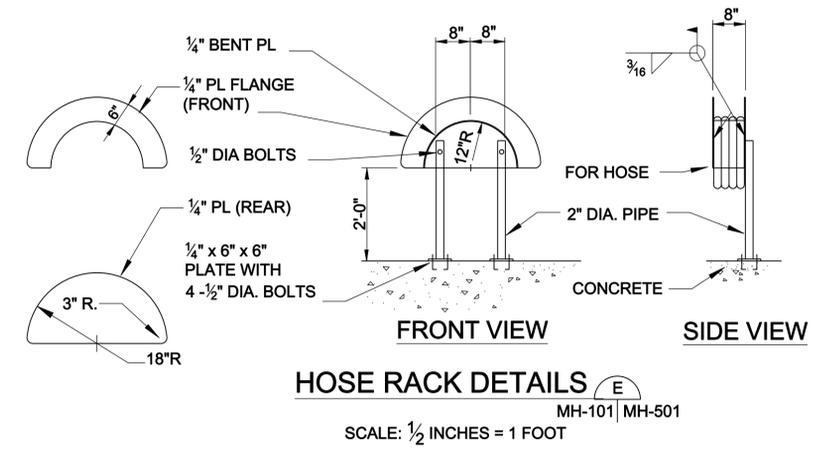
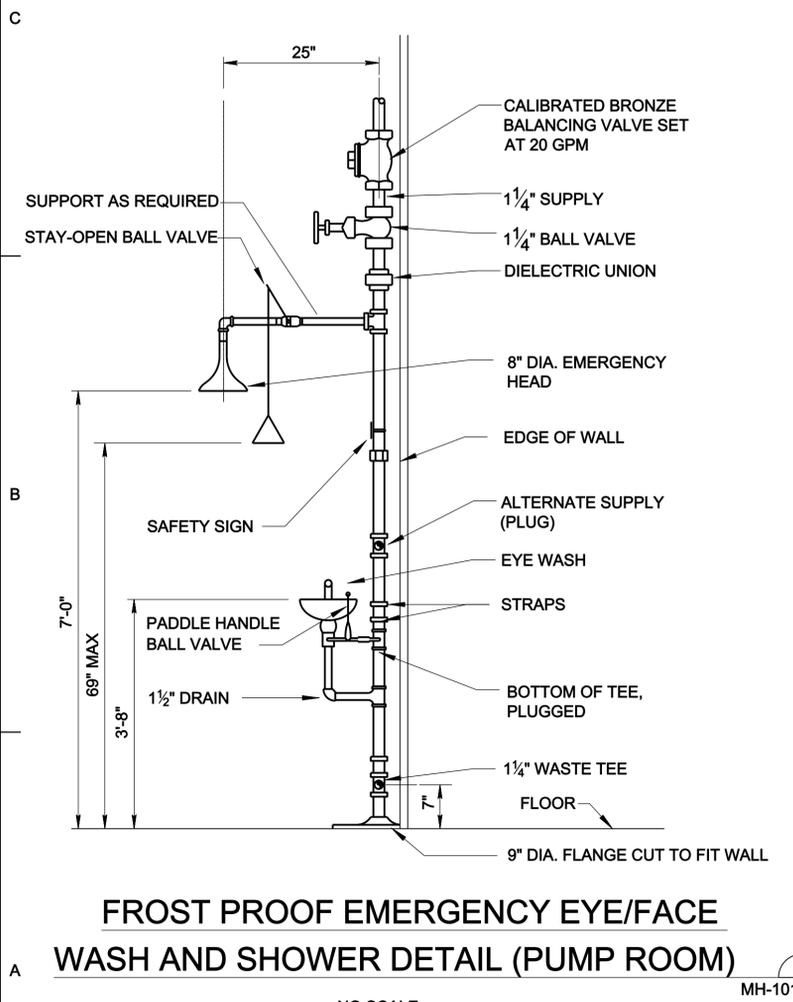
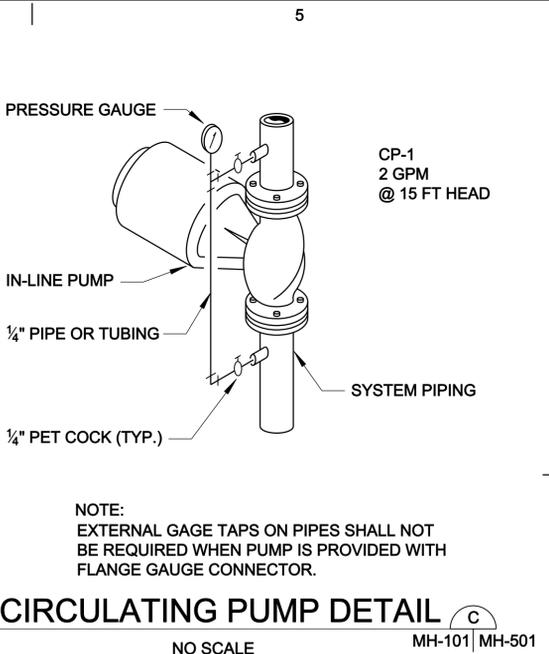
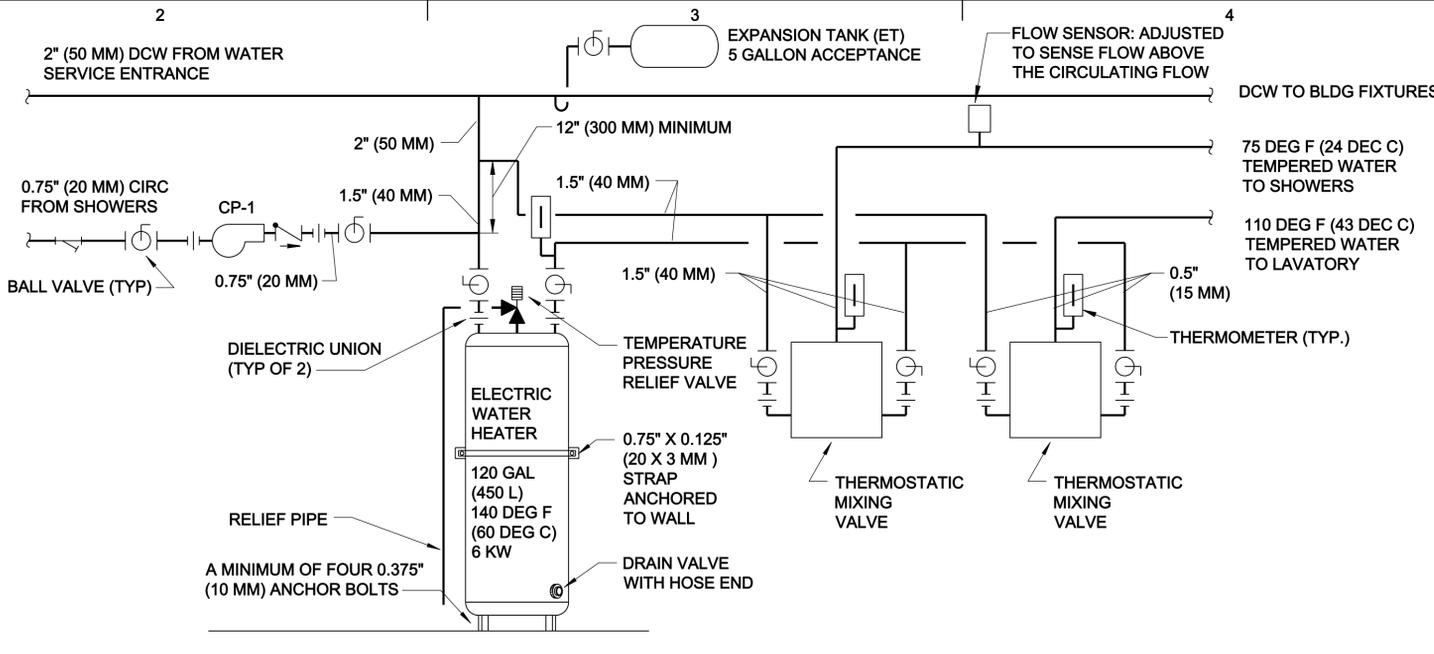
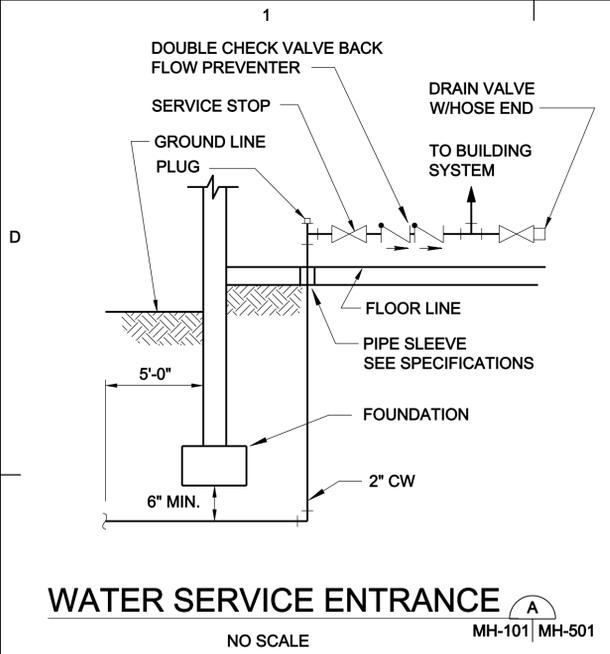
DESIGNED BY: J. J. P.	DATE: JULY 2010
DRAWN BY: J. J. P.	SOLICITATION NO.:
CHECKED BY: M. T. SMITH	CONTRACT NO.:
SUBMITTED BY: M. T. SMITH	FILE NUMBER:
FILE NAME: 0037/MH501.dwg	PLOT DATE: 7/7/2010
SIZE: 33.1x22	PLOT SCALE: 0'-1" = 7'-0"

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

DOD PRESSURIZED FUELING SYSTEM TYPE III

PUMPHOUSE MECHANICAL DETAILS

SHEET IDENTIFICATION NUMBER MH501



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.

NOTE TO DESIGNER:
1. RECOMMENDED SHOWER AND EYEWASH IN UNHEATED PUMP SHELTERS WHERE FREEZING COULD OCCUR.
2. EMERGENCY SHOWER/EYEWASH NOT REQUIRED AT TRUCK FILLSTANDS OR HHT CHECKOUT, BUT AT A MINIMUM A PORTABLE EYEWASH IS REQUIRED (COULD BE LOCATED IN TRUCK)

