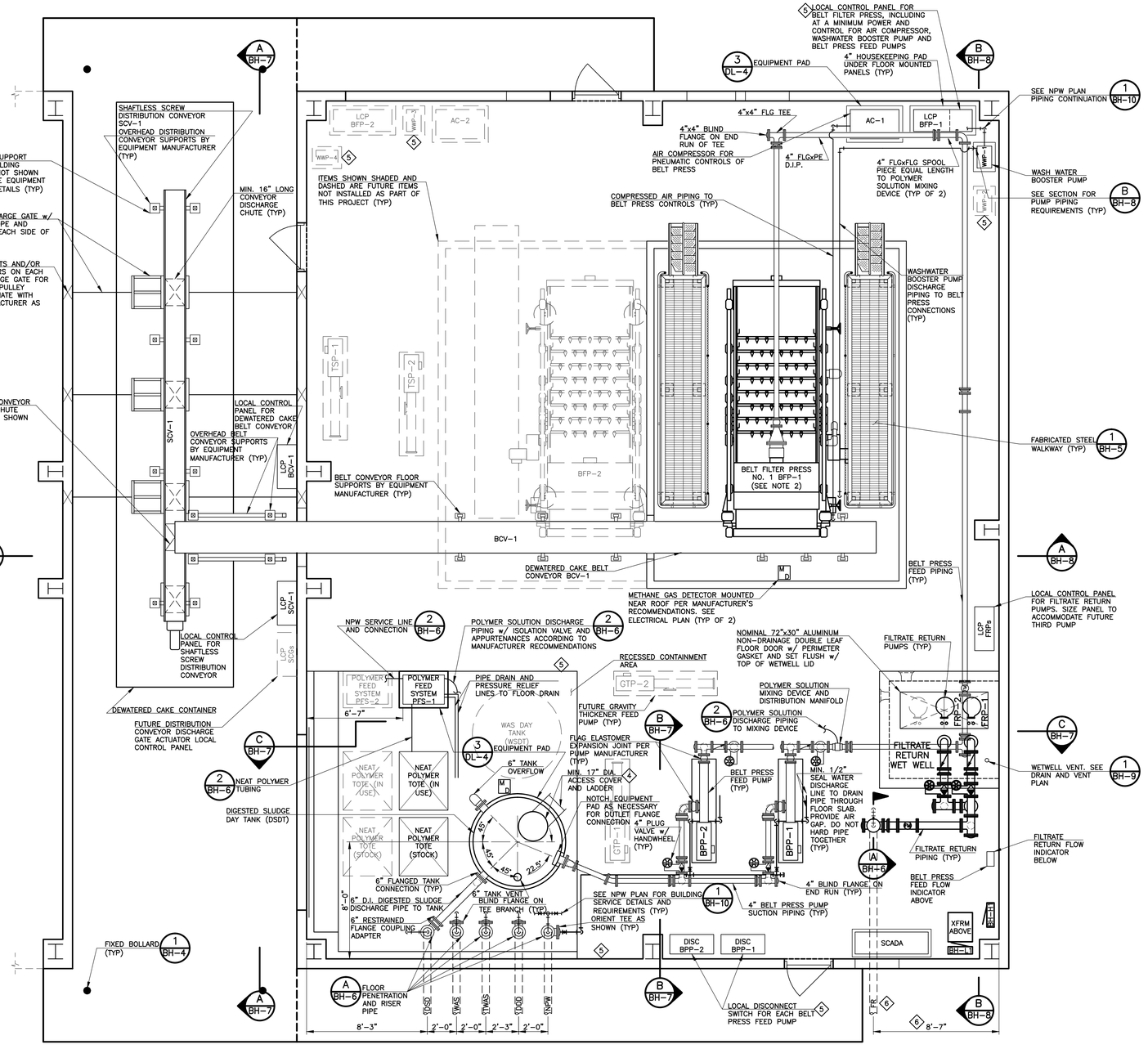
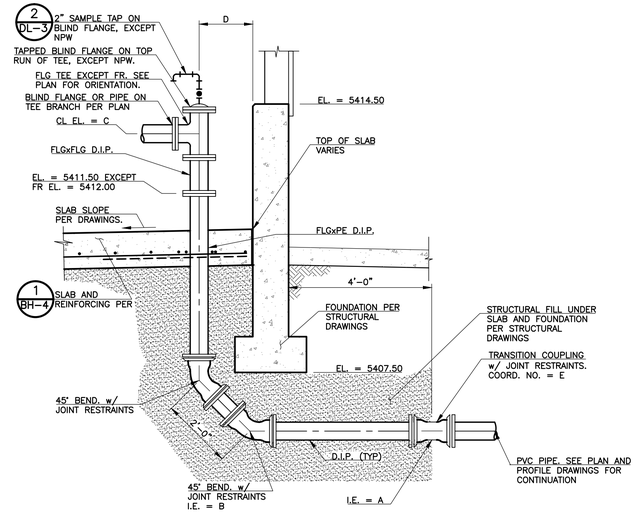


1 BH-6 PROCESS EQUIPMENT AND PIPING PLAN

SCALE: 1/4" = 1' – 0"

NOTES:

1. ITEMS SHOWN SHADED AND DASHED ARE FUTURE ITEMS THAT WILL NOT BE INSTALLED ON THIS PROJECT.
2. DESIGN BASIS EQUIPMENT FOR THE BELT FILTER PRESS IS A PHOENIX MODEL WX1.7GBDW. THIS UNIT IS A COMBINATION DEWATERING AND THICKENING UNIT WITH A GRAVITY BELT THICKENER INSTALLED INTERGRALLY ON TOP OF A BELT FILTER PRESS AND INCLUDES A DIVERTER CHUTE ON THE THICKENER DISCHARGE TO DIVERT THICKENED SOLIDS TO THE BELT FILTER PRESS OR TO ANOTHER LOCATION. FOR THIS PROJECT, THE DIVERTER CHUTE WILL DIVERT THICKENED SOLIDS TO THE BELT FILTER PRESS. IN THIS MODE, THE UNIT WILL ACT AS A SINGLE PIECE OF EQUIPMENT TO ACCOMPLISH THICKENING AND DEWATERING OF SOLIDS. THEREFORE, IT IS REFERRED TO AS A SINGLE BELT PRESS UNIT THROUGHOUT THE PROJECT DRAWINGS.
3. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.



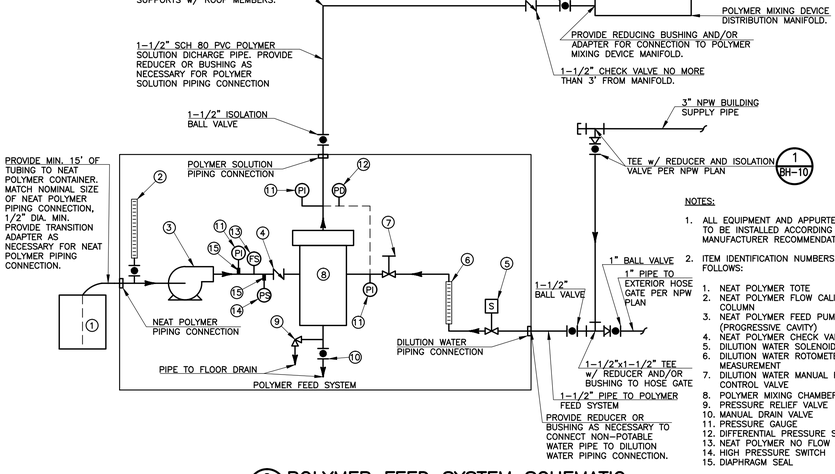
NOTES:

1. ALL DUCTILE IRON PIPE (D.I.P.) AND FITTINGS SHALL BE CEMENT MORTAR LINED. BELOW GRADE PIPE SHALL HAVE BITUMINOUS COATING AND POLYETHYLENE WRAP. EXPOSED PIPE SHALL BE FACTORY PRIMED AND FIELD PAINTED PER SPECIFICATIONS.
2. SEE TABLE FOR LETTERED VARIABLES FOR EACH SERVICE PIPE.
3. RESTRAIN ALL JOINTS FROM BELOW GRADE TRANSITION COUPLING TO FLANGED TEE ABOVE FINISH FLOOR.

SERVICE PIPE	SIZE	I.E. A	I.E. B	CL EL. C	DISTANCE D	COORD. NO.
DSD – DIGESTED SLUDGE DISCHARGE	6"	5405.05	5405.08	5413.50	1'–10"	908
WAS – WASTE ACTIVATED SLUDGE	6"	5405.08	5405.13	5414.83	1'–10"	897
TWAS – THICKENED WASTE ACTIVATED SLUDGE	6"	5405.08	5405.13	5416.17	1'–10"	918
DDD – DIGESTER DECANT DISCHARGE	6"	5405.11	5405.18	5414.83	1'–10"	927
NPW – NON–POTABLE WATER	6"	5404.11	5404.16	5413.50	1'–10"	960
FR – FILTRATE RETURN	6"	5404.75	5404.80	5416.17	9'–1"	961

A BH-6 TYPICAL PIPE PENETRATION SECTION

SCALE: 1/2" = 1'–0"



NOTES:

1. ALL EQUIPMENT AND APPURTENANCES TO BE INSTALLED ACCORDING TO MANUFACTURER RECOMMENDATIONS.
2. ITEM IDENTIFICATION NUMBERS ARE AS FOLLOWS:
   1. NEAT POLYMER TOTE
   2. NEAT POLYMER FLOW CALIBRATION COLUMN
   3. NEAT POLYMER FEED PUMP (PROGRESSIVE CAVITY)
   4. NEAT POLYMER CHECK VALVE
   5. DILUTION WATER SOLENOID VALVE
   6. DILUTION WATER ROTOMETER FLOW MEASUREMENT
   7. DILUTION WATER MANUAL FLOW CONTROL VALVE
   8. POLYMER MIXING CHAMBER/DEVICE
   9. PRESSURE RELIEF VALVE
   10. MANUAL DRAIN VALVE
   11. PRESSURE GAUGE
   12. DIFFERENTIAL PRESSURE SWITCH
   13. NEAT POLYMER NO FLOW SENSOR
   14. HIGH PRESSURE SWITCH
   15. DIAPHRAGM SEAL

2 BH-6 POLYMER FEED SYSTEM SCHEMATIC

SCALE: NONE

REVISIONS		
NO. 1	DATE	DESCRIPTION
1	10/11/2012	ISSUED FOR VALUE ENGINEERING REVIEW NO. 1
2	11/15/2012	ISSUED FOR OWNER PRELIMINARY REVIEW
3	11/29/2012	ISSUED FOR VALUE ENGINEERING REVIEW AND PRICING
4	01/07/2013	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (BIOSOLIDS HANDLING COMPLEX)
5	01/17/2013	REVISIONS PER DEWATERING EQUIPMENT SUPPLIER'S REVISED PROPOSAL
6	03/14/2013	ISSUED FOR CONSTRUCTION PER PPRBD BLDG PERMIT #85132 (BIOSOLIDS HANDLING COMPLEX)

PROCESS EQUIPMENT AND PIPING PLAN AND DETAILS

HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY

LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

DRAWN SKC
DESIGNED MAM
CHECKED RJS
DATE SEPTEMBER 2012
PROJECT NO. 20166.382
GMS FILE NO. 2599

GMS, INC.
CONSULTING ENGINEERS
611 N. WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903

SHEET BH-6 OF —

XREF FILENAME: G:\
BASE DWG: G:\
PLOT STYLE FILE: 1050C.CTB
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