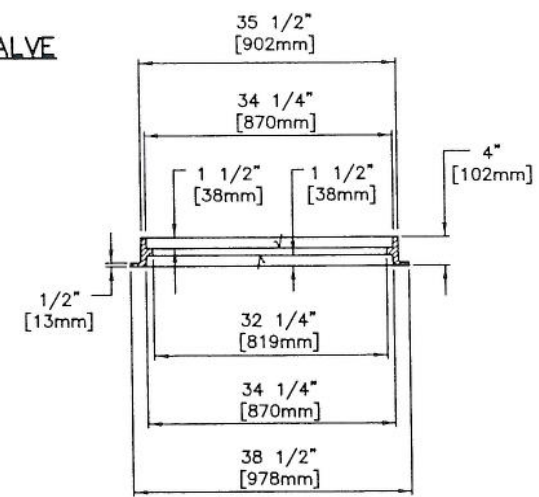
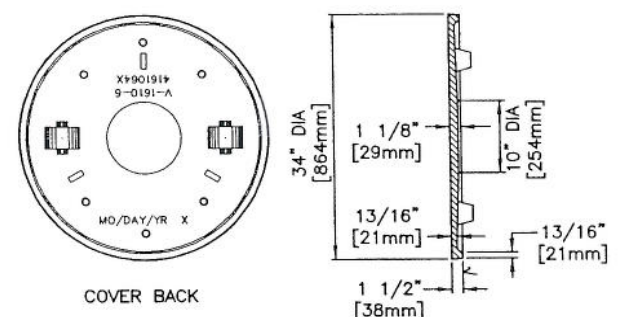


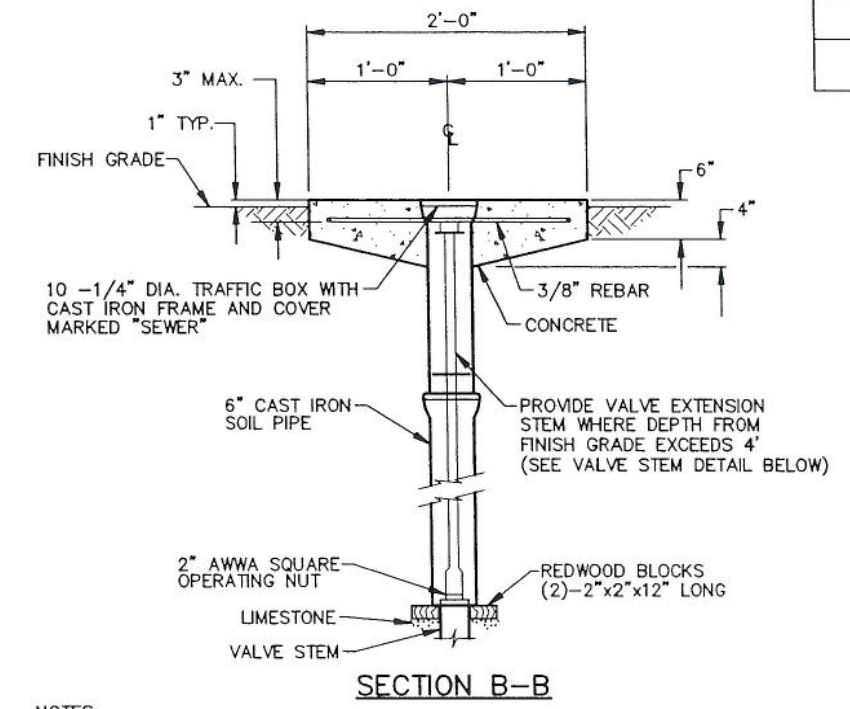
FORCE MAIN AIR RELEASE / VACUUM VALVE



NOTE:
ALL CAST IRON FRAME AND COVERS SHALL BE TRAFFIC BEARING AND BE OF DOMESTIC ORIGIN. FRAME AND COVERS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS DESIGNATION : M306-05 STANDARD SPECIFICATION FOR DRAINAGE, SEWER, UTILITY, AND RELATED CASTINGS. THEY SHALL HAVE AN ENVIRONMENTALLY SAFE, WATER-BASE ASPHALTIC COATING WHICH IS NONTXIC, NONFLAMMABLE, COLORLESS, AND DRIES TO A HARD BLACK FINISH.

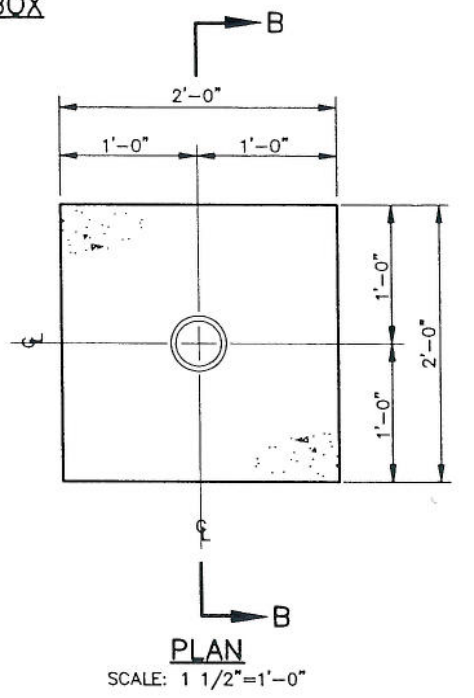
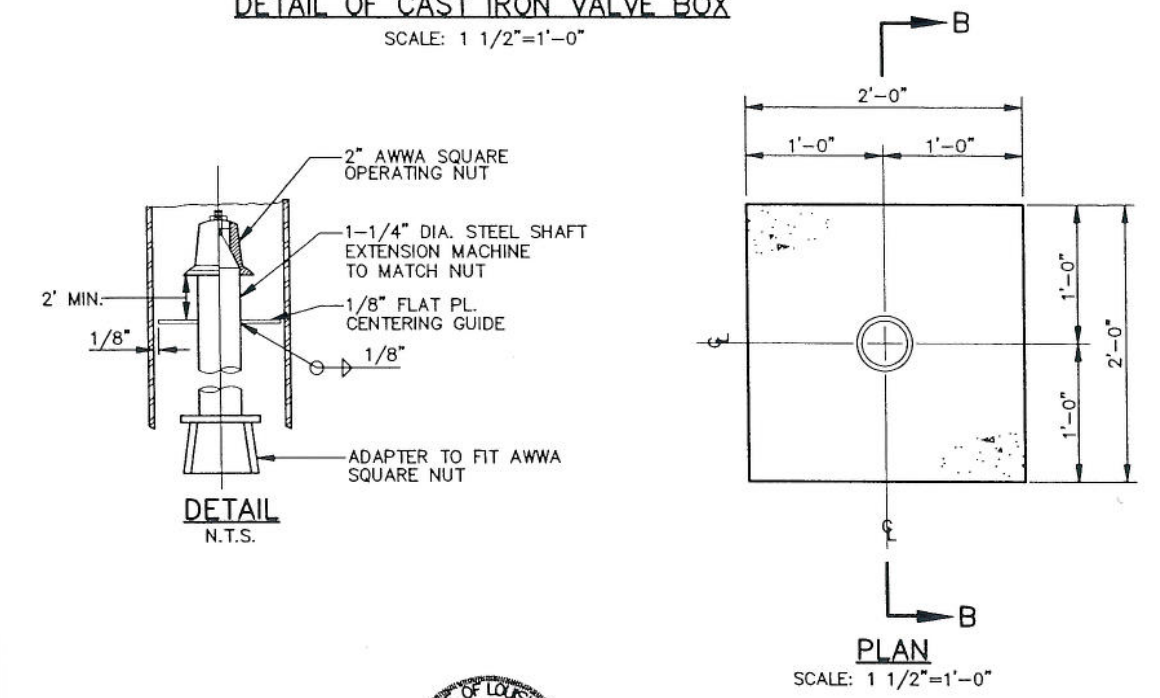
AIR RELEASE / VACUUM VALVE MANHOLE COVER
W/ VENT HOLES & LOGO

AIR RELEASE / VACUUM VALVE MANHOLE FRAME
REVERSIBLE RING TYPE



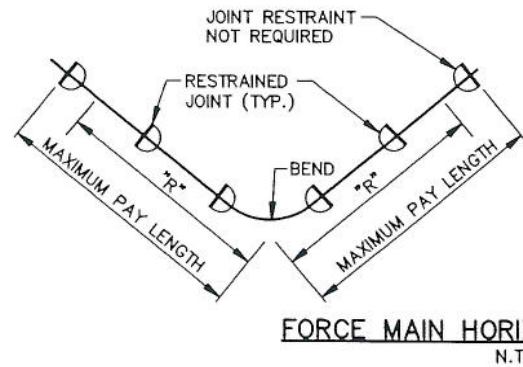
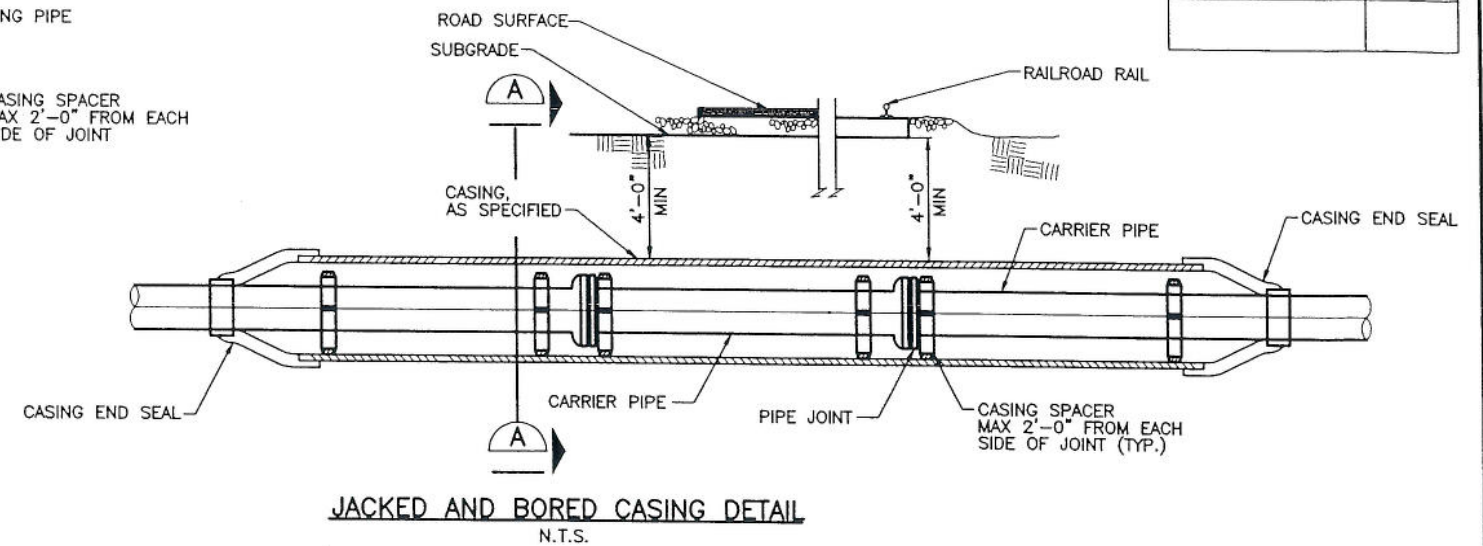
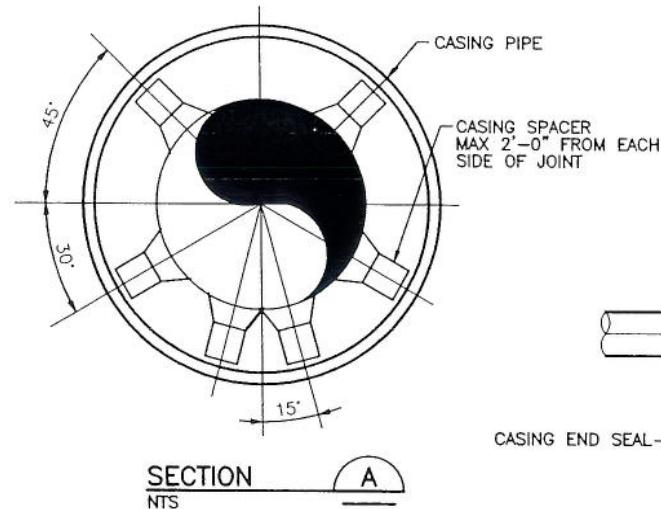
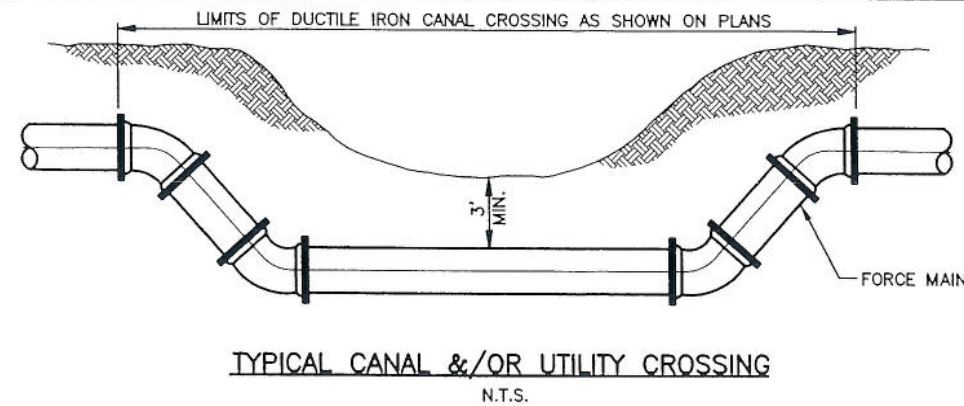
NOTES:
PROVIDE PROTECTIVE COATING TO EXTERIOR SURFACE OF VALVE BODY IN ACCORDANCE WITH SPECS.
FOR LUBRICATED PLUG VALVE, EXTEND LUBRICATION LINE TO GRADE PER MANUFACTURERS INSTRUCTIONS.

DETAIL OF CAST IRON VALVE BOX
SCALE: 1 1/2"=1'-0"



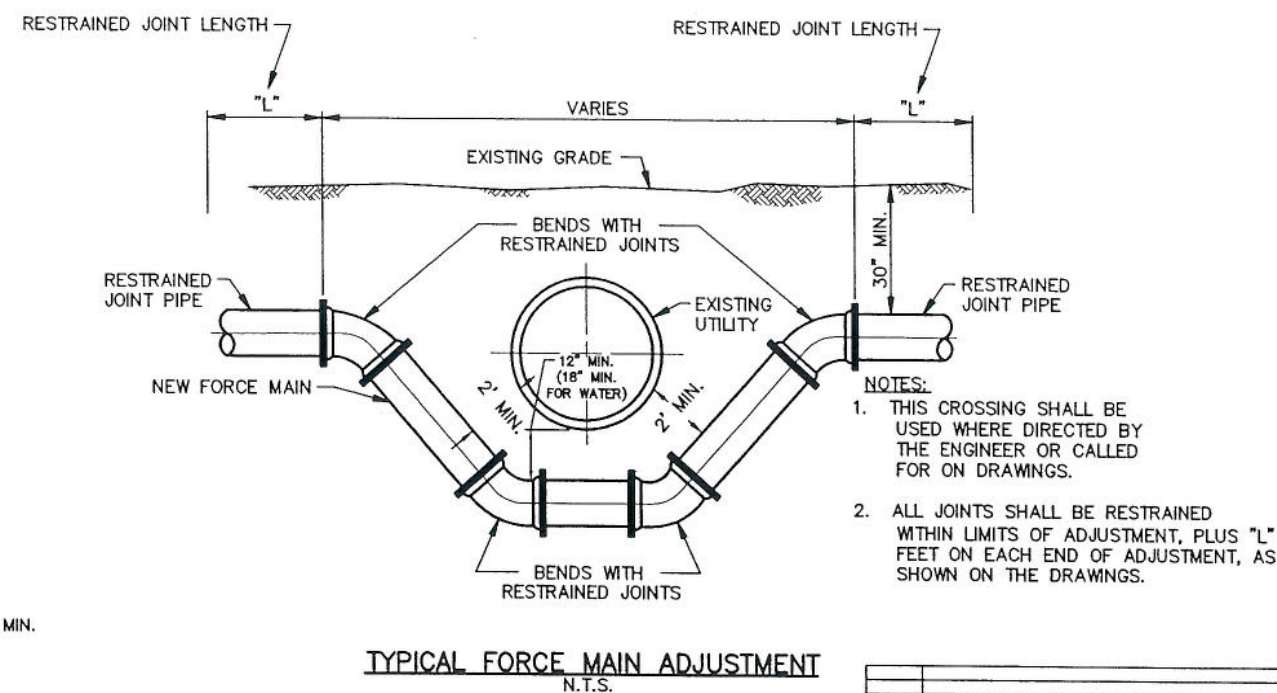
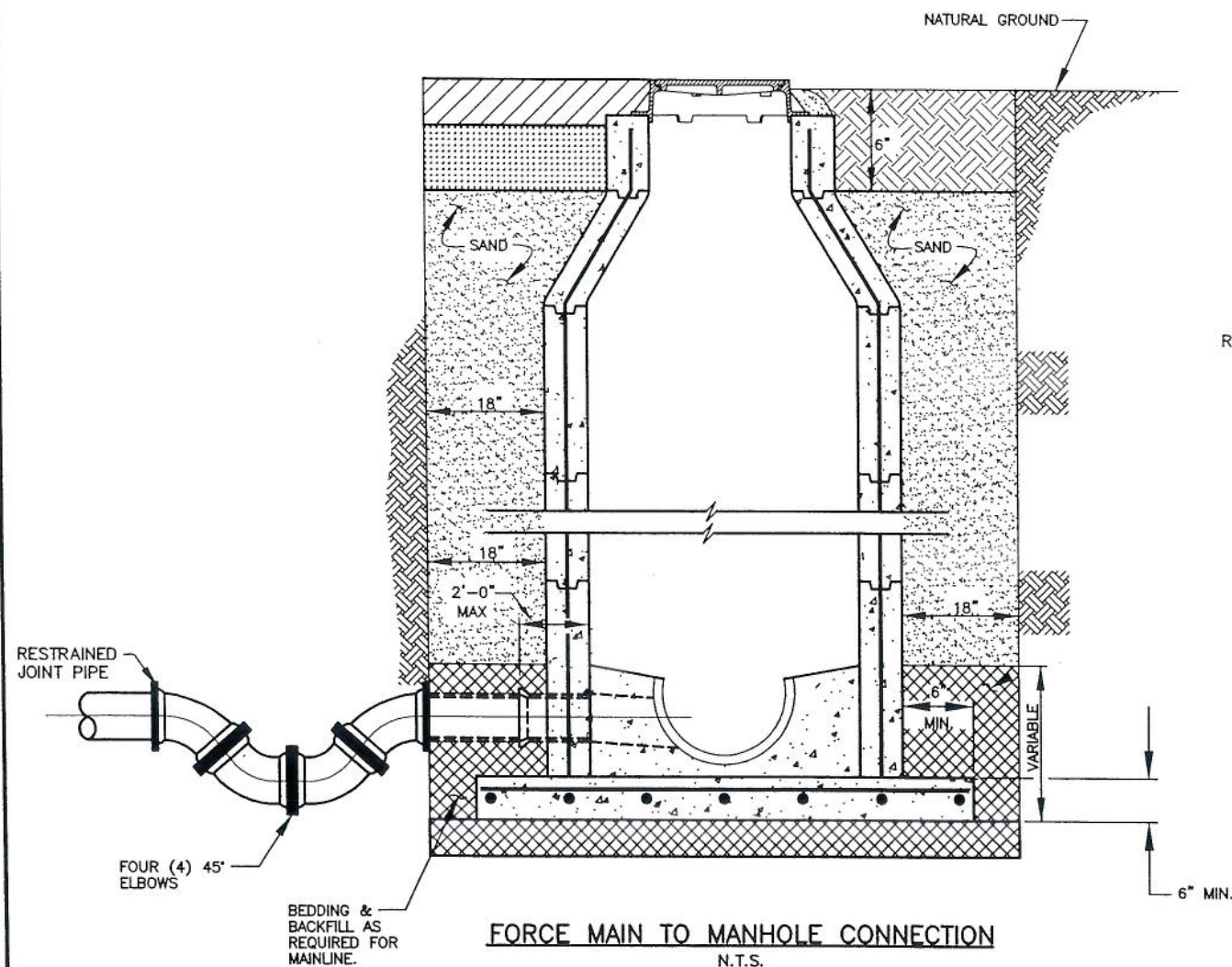
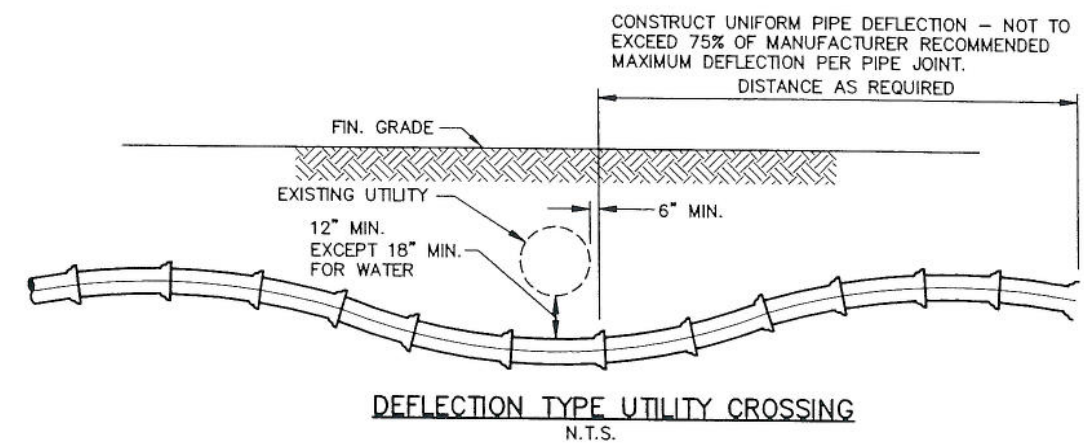
STANDARD PLAN NO. 804-01		DATED FEBRUARY 29, 2008	SHEET NO. 1 OF 2
FORCE MAIN DETAILS			
ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED R. WRIGHT	APPROVED B. HARMON

DATE	DESCRIPTION	BY



RESTRAINED JOINT NOTES:

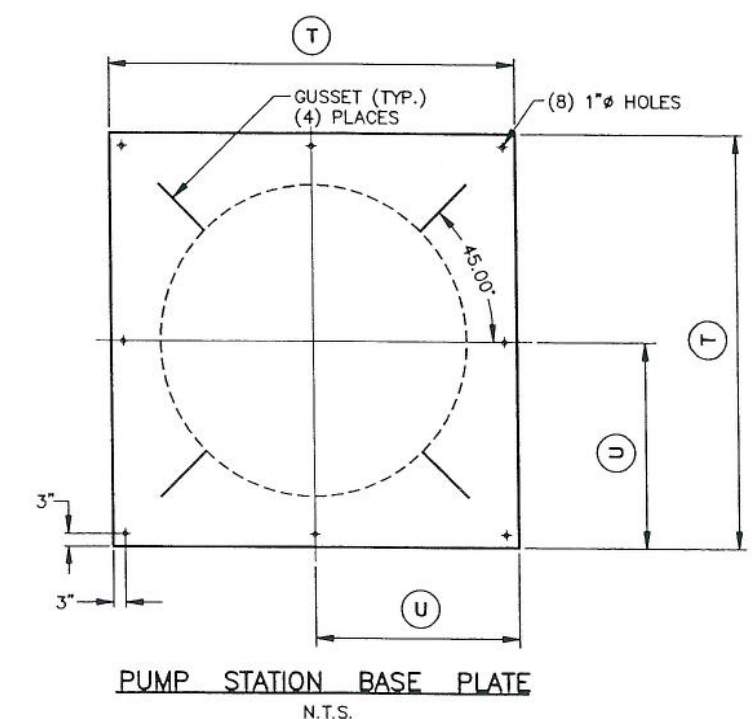
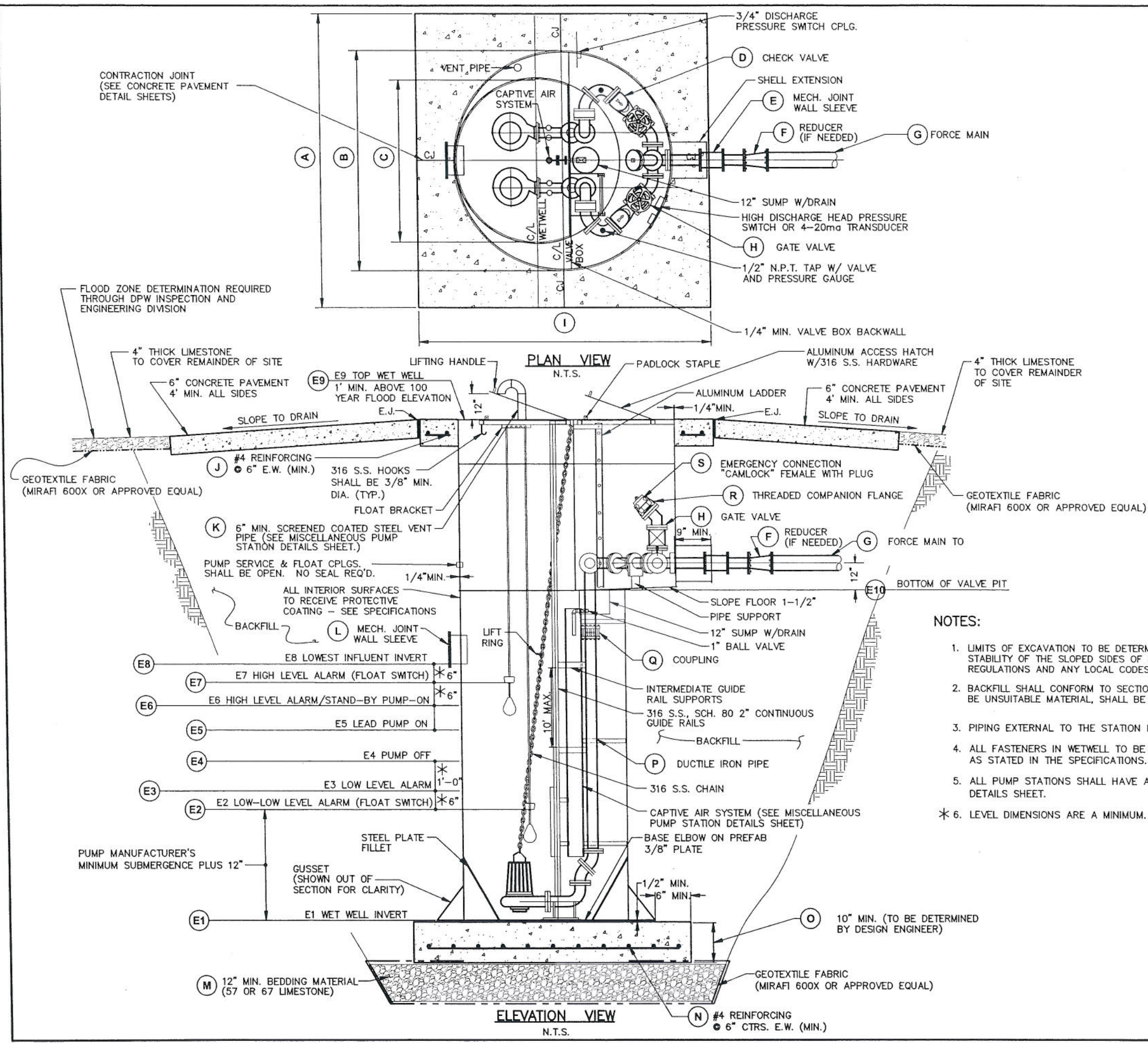
1. RESTRAINED JOINT PIPE SHALL BE USED AT ALL BENDS.
2. THE LENGTH OF RESTRAINED PIPE "R" ON EACH SIDE OF THE BEND SHALL BE AS SHOWN ON THE DRAWINGS.



- NOTES:
1. THIS CROSSING SHALL BE USED WHERE DIRECTED BY THE ENGINEER OR CALLED FOR ON DRAWINGS.
 2. ALL JOINTS SHALL BE RESTRAINED WITHIN LIMITS OF ADJUSTMENT, PLUS "L" FEET ON EACH END OF ADJUSTMENT, AS SHOWN ON THE DRAWINGS.



STANDARD PLAN NO. 804-01	DATED FEBRUARY 29, 2008	SHEET NO. 2 OF 2
FORCE MAIN DETAILS		
ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE		
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED R. WRIGHT
APPROVED B. HARMON		



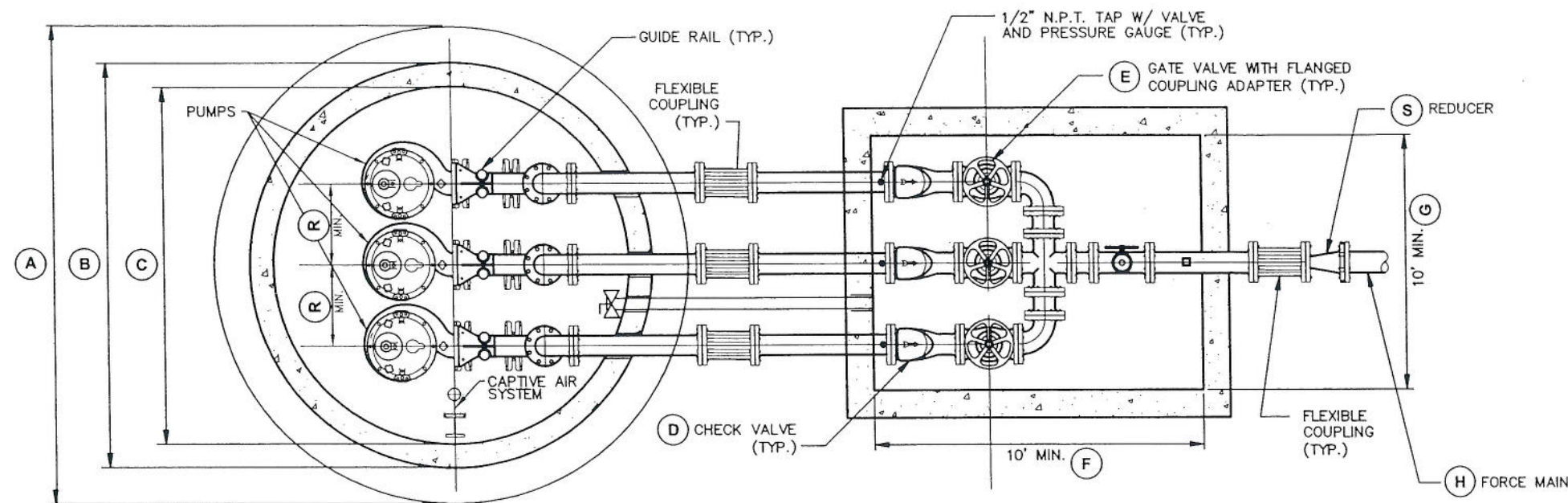
- NOTES:**
1. LIMITS OF EXCAVATION TO BE DETERMINED BY THE CONSTRUCTION EXCAVATION METHOD SELECTED BY CONTRACTOR. MAINTAINING THE STABILITY OF THE SLOPED SIDES OF EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH OSHA REGULATIONS AND ANY LOCAL CODES OR ORDINANCES.
 2. BACKFILL SHALL CONFORM TO SECTION 805 OF THE SPECIFICATIONS. INSITU MATERIAL, IF DETERMINED TO BE UNSUITABLE MATERIAL, SHALL BE DISPOSED OF PROPERLY IN ACCORDANCE WITH THE SPECIFICATIONS.
 3. PIPING EXTERNAL TO THE STATION MUST BE INDEPENDENTLY SUPPORTED. ALL PIPE JOINTS SHALL BE MECHANICALLY RESTRAINED.
 4. ALL FASTENERS IN WETWELL TO BE 316 STAINLESS STEEL. ALL PARTS IN WETWELL TO BE COATED AND/OR STAINLESS STEEL AS STATED IN THE SPECIFICATIONS.
 5. ALL PUMP STATIONS SHALL HAVE A BACKFLOW PREVENTER AND HOSE BIBB CONNECTION INSTALLED. SEE MISCELLANEOUS PUMP STATION DETAILS SHEET.
 - * 6. LEVEL DIMENSIONS ARE A MINIMUM.



STANDARD PLAN NO. 805-01		DATED FEBRUARY 29, 2008		SHEET NO. 1 OF 2	
STEEL PUMP STATION DETAILS					
ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE					
DESIGNED	DRAWN	CHECKED	APPROVED		
A. SCHULZE	G. VANNICE	R. WRIGHT	B. HARMON		

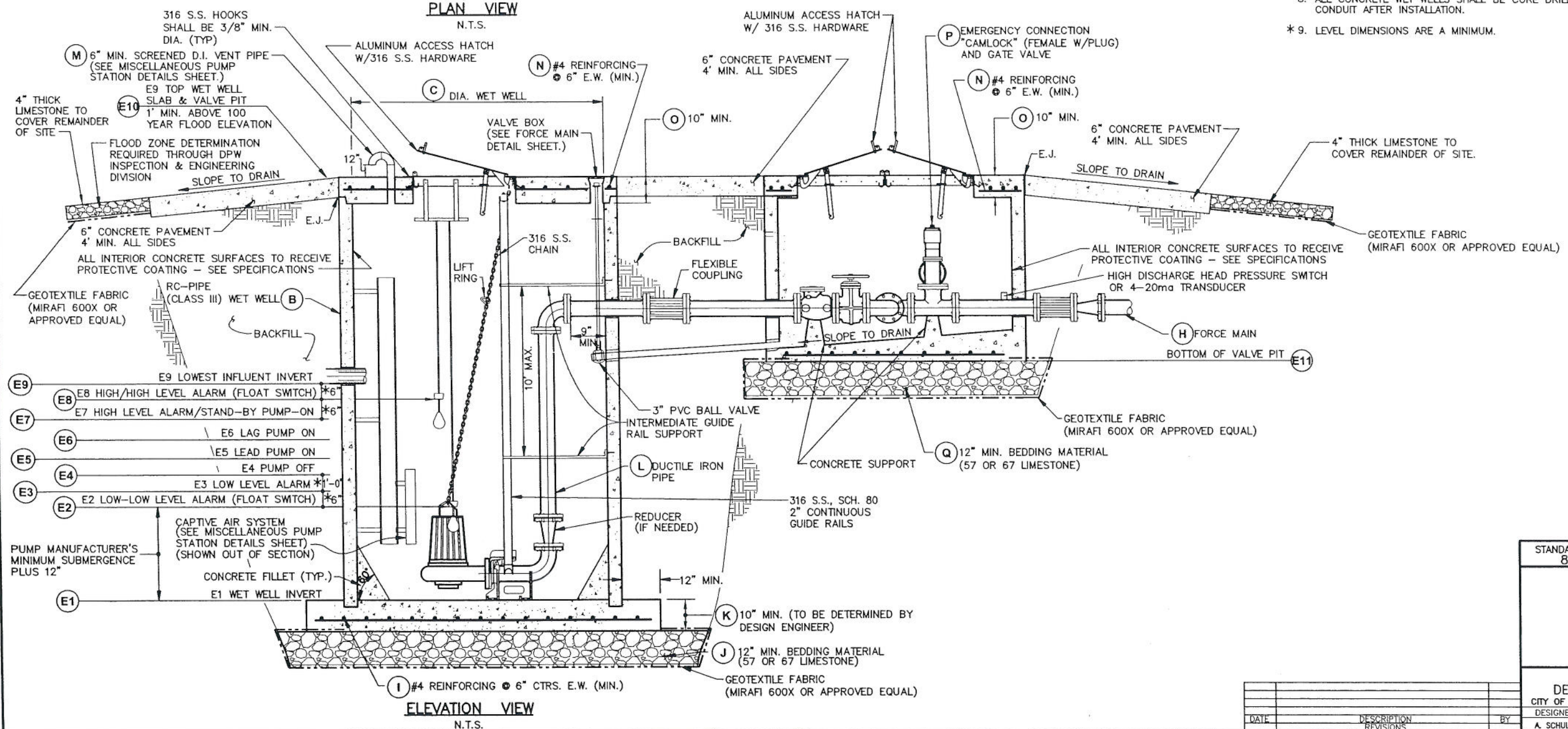
2/29/08	REPLACES DRAWING DATED 8/1/07; SIGNED 8/8/07	B.K.H.
DATE	DESCRIPTION	BY
	REVISIONS	

PROJECT NO.	SHEET

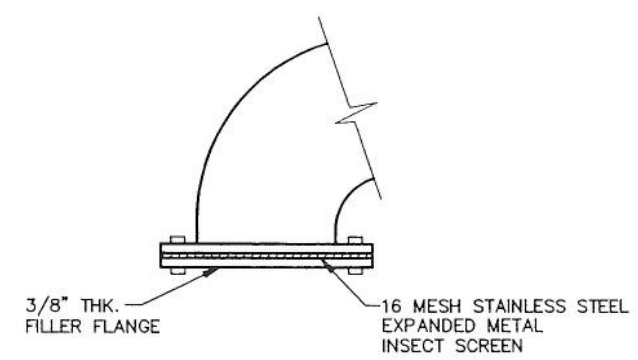


NOTES:

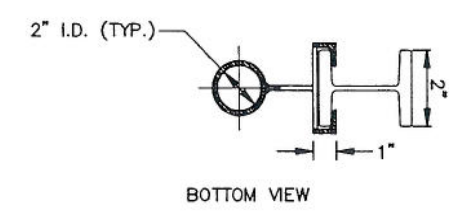
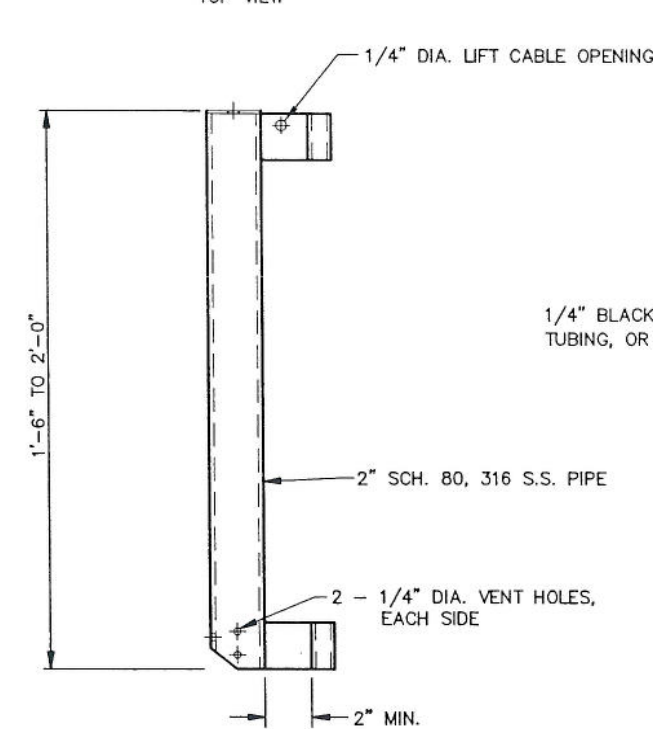
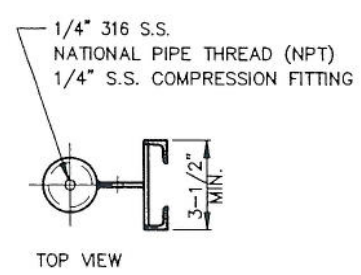
1. LIMITS OF EXCAVATION TO BE DETERMINED BY THE CONSTRUCTION EXCAVATION METHOD SELECTED BY CONTRACTOR. MAINTAINING THE STABILITY OF THE SLOPED SIDES OF EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH OSHA REGULATIONS AND ANY LOCAL CODES OR ORDINANCES.
2. BACKFILL SHALL CONFORM TO SECTION 805 OF THE SPECIFICATIONS. INSITU MATERIAL, IF DETERMINED TO BE UNSUITABLE MATERIAL, SHALL BE DISPOSED OF PROPERLY IN ACCORDANCE WITH THE SPECIFICATIONS.
3. PIPING IN THE VALVE PIT MUST BE INDEPENDENTLY SUPPORTED.
4. ALL FASTENERS IN WETWELL TO BE 316 STAINLESS STEEL. ALL PARTS IN WETWELL TO BE COATED AND/OR STAINLESS STEEL AS STATED IN THE SPECIFICATIONS.
5. ALL PUMP STATIONS SHALL HAVE A BACKFLOW PREVENTER AND HOSE BIBB CONNECTION INSTALLED. SEE MISCELLANEOUS PUMP STATION DETAILS SHEET.
6. ALL ELECTRICAL CONDUIT PENETRATING CONCRETE WALLS SHALL BE SINGLE PENETRATION AND IN SEPERATE SLEEVES. PENETRATIONS SHALL BE A MINIMUM OF 2" APART MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
7. ALL PIPE PENETRATING CONCRETE WALLS SHALL BE SEALED WITH A NON-SHRINK GROUT.
8. ALL CONCRETE WET WELLS SHALL BE CORE DRILLED AND LINK SEAL INSTALLED AROUND CONDUIT AFTER INSTALLATION.
- *9. LEVEL DIMENSIONS ARE A MINIMUM.



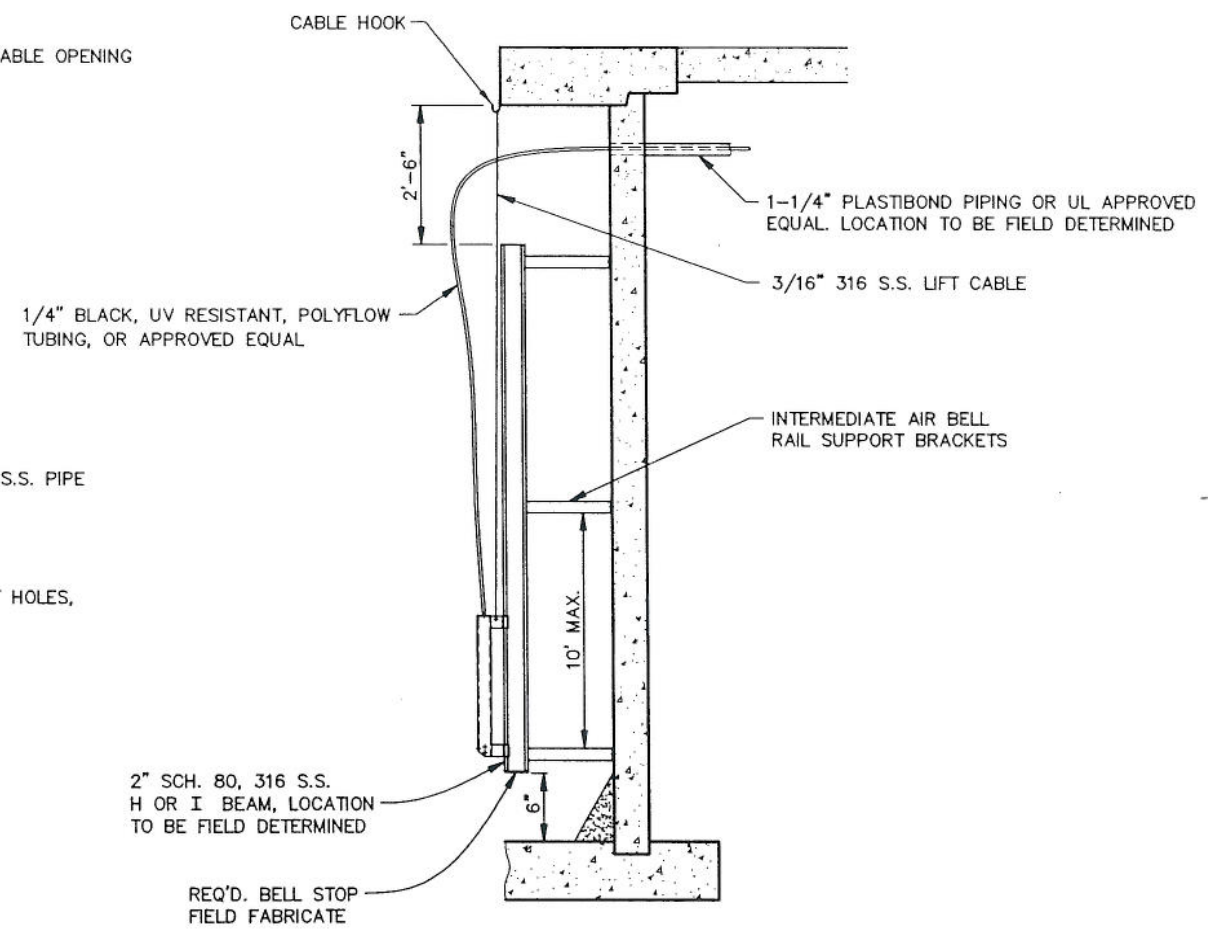
STANDARD PLAN NO. 805-03	DATED FEBRUARY 29, 2008	SHEET NO. 1 OF 2
CONCRETE TRIPLEX STATION DETAILS		
ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE		
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED R. WRIGHT
		APPROVED B. HARMON



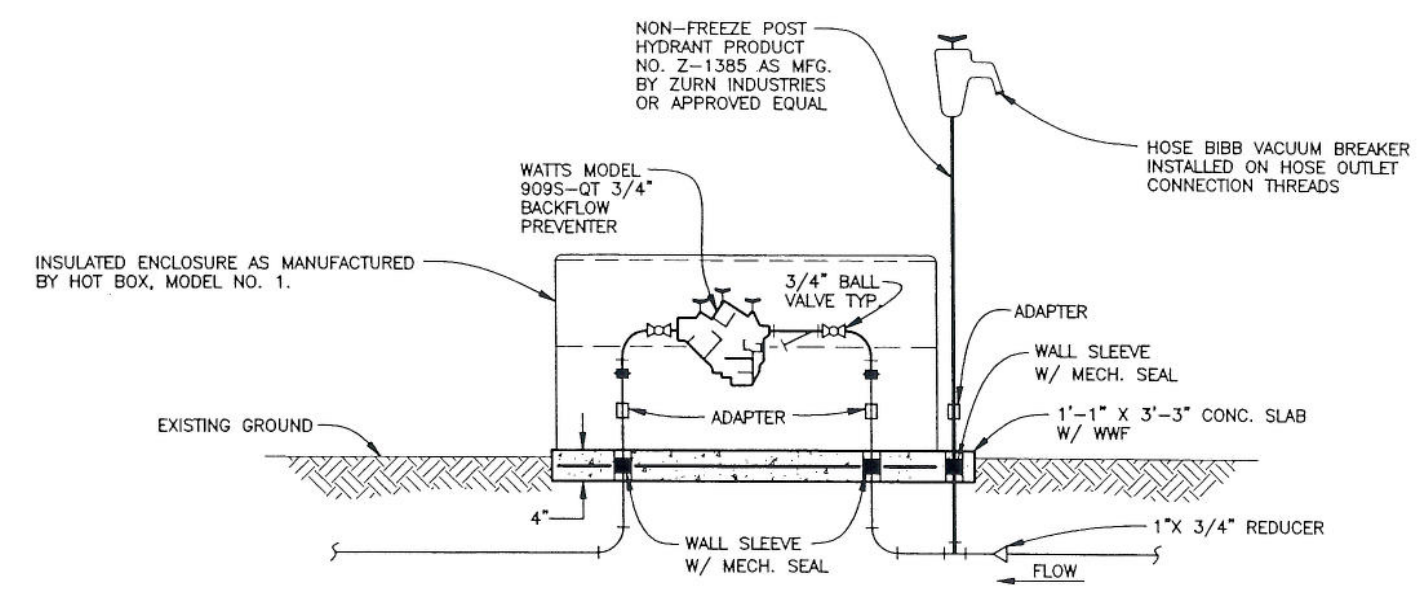
TYPICAL VENT PIPE
N.T.S.



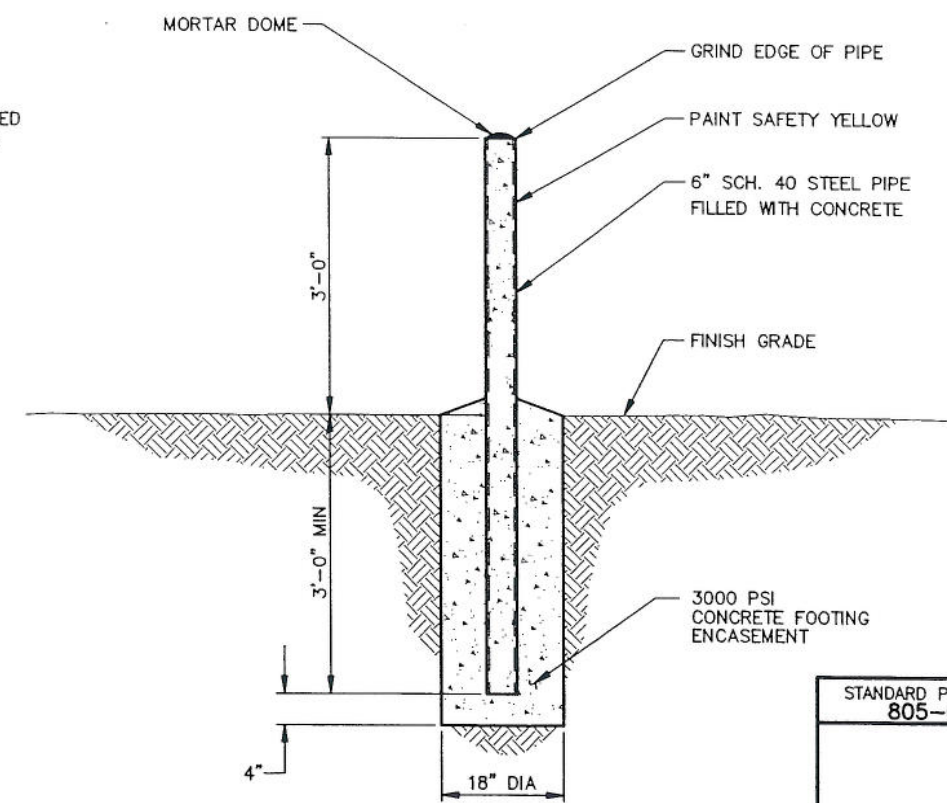
CAPTIVE AIR SLEEVE DETAIL
SCALE: 1/4"=1"



CAPTIVE AIR SYSTEM DETAIL
SCALE: 1/16"=1"



ABOVE GROUND 3/4" BACKFLOW PREVENTER DETAIL
N.T.S.

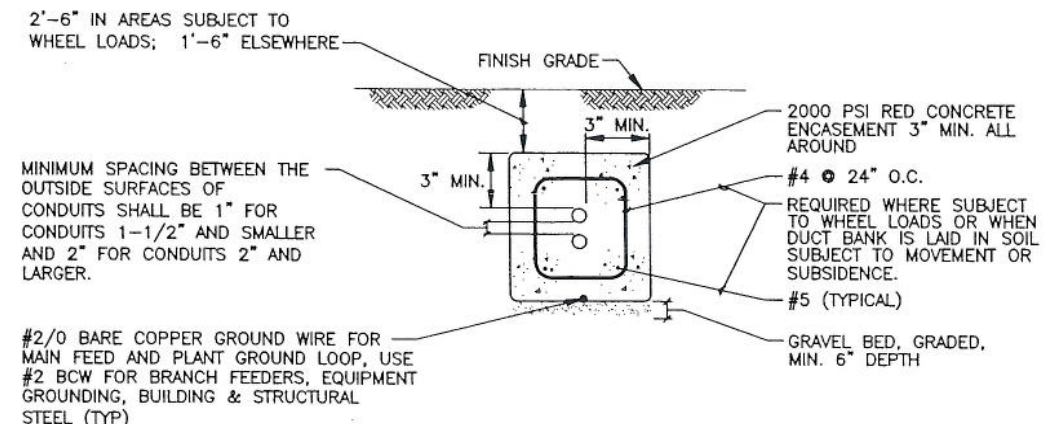


6" GUARD POST DETAIL
SCALE: 1"=1'-0"

STATE OF LOUISIANA
BRYAN K. HARMON
REG. No. 22595
PROFESSIONAL ENGINEER
FEBRUARY 29, 2008

STANDARD PLAN NO. 805-04	DATED FEBRUARY 29, 2008	SHEET NO. 1 OF 1
MISCELLANEOUS PUMP STATION DETAILS		
ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE		
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED R. WRIGHT
APPROVED B. HARMON		

DATE	DESCRIPTION	BY
2/29/08	REPLACES DRAWING DATED 8/1/07: SIGNED 8/8/07	B.K.H.



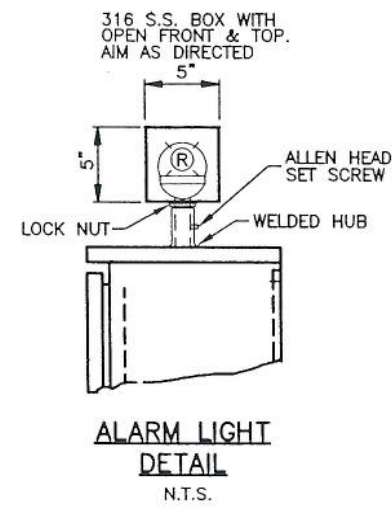
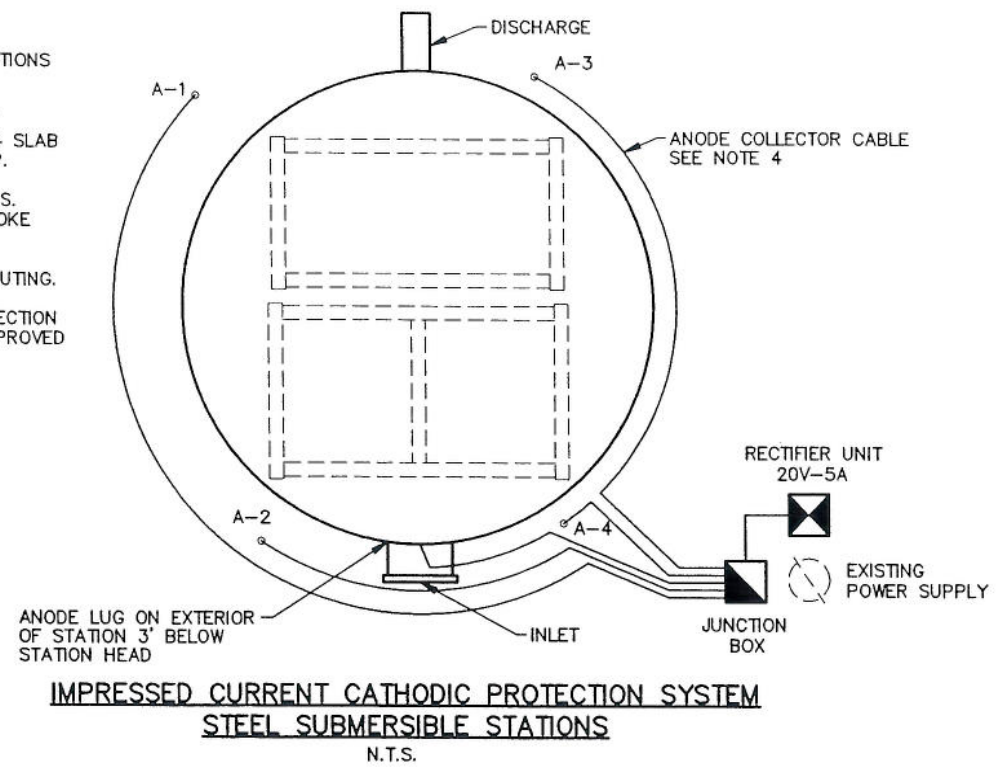
TYPICAL DUCT BANK SECTION
N.T.S.

NOTES:

- WHERE CONDUITS RISE ABOVE GRADE, THE CONCRETE ENCASEMENT SHALL EXTEND 6" ABOVE FINISHED GRADE. WHERE CONDUITS RUN THROUGH EQUIPMENT FOUNDATIONS OR BUILDING FLOOR SLAB, THE RED CONCRETE ENCASEMENT SHALL BUTT THE UNDERSIDE OF THE FOUNDATION OR SLAB.
- NONMETALLIC CONDUITS SHALL NOT BE EXTENDED ABOVE GRADE. REFER TO CONDUIT STUB-UP DETAIL THIS DWG.

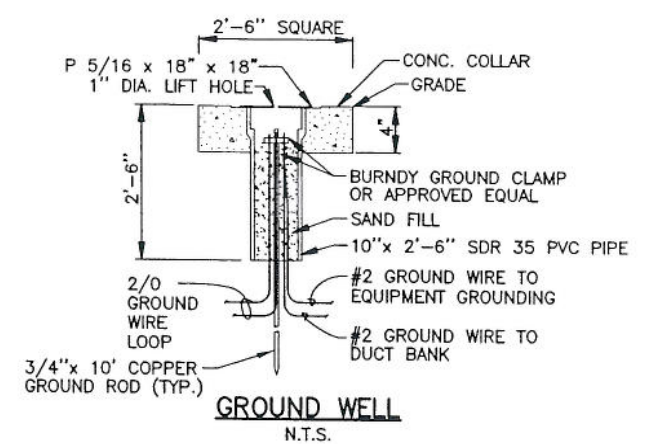
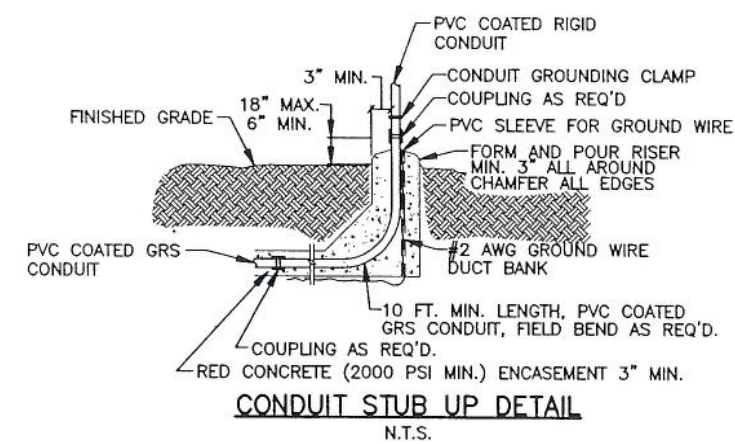
NOTES:

- CONTRACTOR TO STENCIL ANODE POSITIONS ON TOP OF STATION HEAD.
- INSTALL ANODES 3' MINIMUM AND 10' MAXIMUM FROM STATION. A1 AND A4 SLAB ELEVATION, A2 AND A3 HALF WAY UP.
- SURROUND EACH ANODE WITH 100 LBS. OF COKE BREEZE. DO NOT ALLOW COKE BREEZE TO CONTACT STATION.
- CONTACT ELECTRICIAN FOR CABLE ROUTING.
- IMPRESSED CURRENT CATHODIC PROTECTION SYSTEMS SHALL BE COORPRO OR APPROVED EQUAL.



MISCELLANEOUS ELECTRICAL NOTES

- ALL HARDWARE SHALL BE 316 STAINLESS STEEL. (NO EXCEPTIONS)
- ALL CONDUIT AND FITTINGS ABOVE AND BELOW GROUND SHALL BE PVC COATED RIGID CONDUIT. (PLASTIBOND OR APPROVED EQUAL)
- ALL UNDERGROUND CONDUIT SHALL BE ENCASED IN RED CONCRETE.
- ALL WIRING SHALL BE INSULATED COPPER.
- CONTRACTOR SHALL COORDINATE WITH PUMP SUPPLIER ON SIZE OF PUMP LEADS AND SENSOR LEADS FOR PROPER CONDUIT SIZING.
- CONDUIT IN WET WELL SHALL BE THREADED WITH A BUSHING INSTALLED ON CONDUIT, AND NOT SEALED.
- CONTRACTOR IS RESPONSIBLE FOR ALL STARTUP AND COORDINATION WITH EQUIPMENT SUPPLIER AND PUMP SUPPLIER FOR PROPER INSTALLATION.
- CONDUIT FOR MOTOR LEADS AND CAPTIVE AIR LINE SHALL ONLY HAVE ONE 90 DEGREE BEND IN EACH CONDUIT RUN FROM JUNCTION BOX TO WET WELL. (NO EXCEPTIONS)
- CONDUITS AND MOTOR LEADS ENTERING WET WELL SHALL NOT CONFLICT WITH PULLING OF PUMPS OR CAPTIVE AIR SYSTEM.
- CONDUITS ENTERING WET WELL AND CONTROL PANEL SHALL NOT BE INSTALLED OVER FORCE MAIN OR INFLUENT PIPING.
- DEMONSTRATION OF PUMP PULLING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- COORDINATION WITH THE UTILITY COMPANY AND EAST BATON ROUGE WASTEWATER COLLECTION - FIELD PUMP MAINTENANCE SECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR BEFORE ANY INSTALLATION OF THE ELECTRICAL SYSTEM.
- ALL UNDERGROUND ELECTRICAL WORK SHALL BE INSPECTED BY THE EAST BATON ROUGE WASTEWATER COLLECTION - FIELD PUMP MAINTENANCE INSPECTOR PRIOR TO BACKFILLING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING ALL CONTROL PANELS AND CAPTIVE AIR SYSTEMS IN ACCORDANCE WITH THE SPECIFICATIONS.
- BEFORE CONTROL PANEL SLAB IS INSTALLED, ALL FILL MUST BE COMPACTED AS STATED IN SPECIFICATIONS.
- IF SETTLING OCCURS AFTER INSTALLATION OF SLAB, CONTROL PANEL AND ELECTRICAL SYSTEM WHICH CAUSES THE SLAB OR PANEL TO BE OUT OF PLUMB OR LEVEL, THE SYSTEM WILL BE REJECTED AND IT WILL BE NECESSARY TO PROPERLY COMPACT THE BASE AND REINSTALL THE SYSTEM TO MEET EAST BATON ROUGE SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR 24 HOUR TEST AS PER THE SPECIFICATIONS UNTIL SYSTEM IS ACCEPTED BY THE EAST BATON ROUGE WASTEWATER COLLECTION - FIELD PUMP MAINTENANCE SECTION AND THE PROJECT ENGINEER.
- ALL WORK SHALL COMPLY WITH THE SPECIFICATIONS WITH REGARD TO PUMP STATION INSTALLATIONS.
- IF STEEL PUMP STATION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF CONDUIT HUB LOCATIONS WITH THE MANUFACTURER. LOCATION OF THESE HUBS SHOULD BE DETERMINED PRIOR TO FABRICATION OF THE STATION TO LIMIT THE NUMBER OF CONDUIT BENDS SO MOTOR LEADS CAN BE EASILY REMOVED AND REINSTALLED.



STATE OF LOUISIANA
BRYAN K. HARMON
REG. NO. 22595
PROFESSIONAL ENGINEER
FEBRUARY 29, 2008

STANDARD PLAN NO. 805-06		DATED FEBRUARY 29, 2008	SHEET NO. 1 OF 1
MISCELLANEOUS ELECTRICAL DETAILS			
ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED R. WRIGHT	APPROVED B. HARMON

2/29/08	REPLACES DRAWING DATED 8/1/07. SIGNED 8/8/07	B.K.H.
DATE	DESCRIPTION	BY
	REVISIONS	

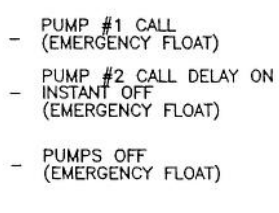
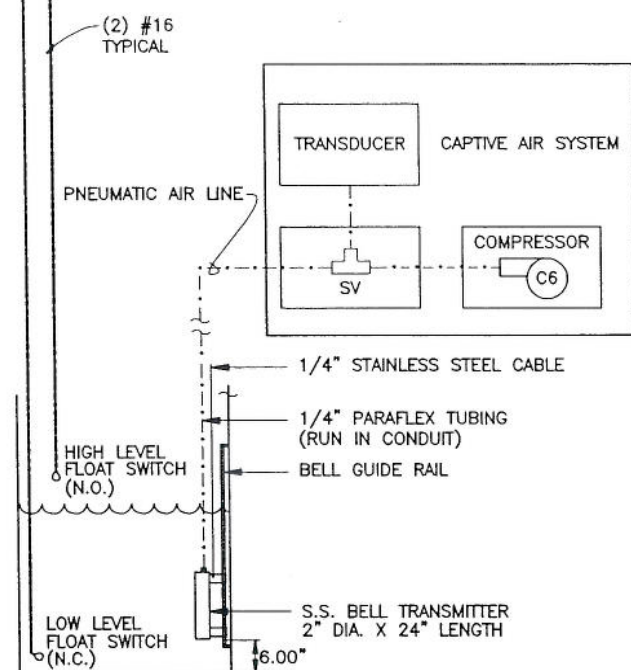
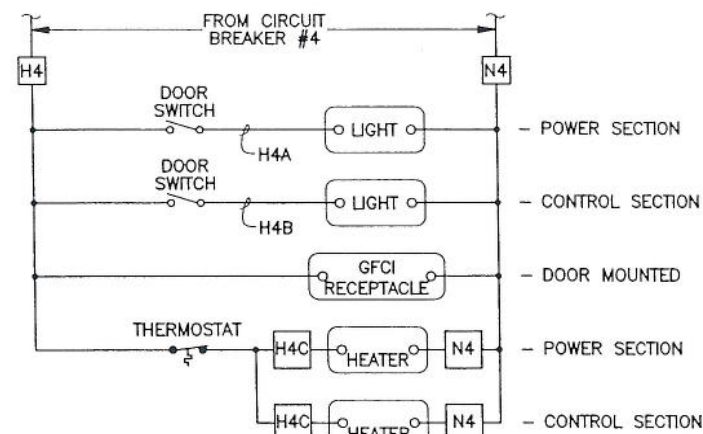


Diagram illustrating the components and dimensions of a float switch assembly:

- 1/4" PARAFLEX TUBING (RUN IN CONDUIT)
- 2" P.V.C.
- 1/2" PIPE STRAPS (POLY-PORC COAT)
- 1/4" PARAFLEX TUBE
- 1/4"-20 UNC S.S. BOLT
- TRANSMITTER
- S.S. 2" DIA. X 24" LENGTH
- 6.00"
- HIGH LEVEL FLOAT SWITCH (N.O.)
- LOW LEVEL FLOAT SWITCH (N.C.)
- MOUNTING HARDWARE



FROM CIRCUIT BREAKER #3

PFR

69

TD2

O/L1

H

A

SW-1

71

70

71A

CR1

DO-1

FROM PLC

S1

TO PLC DI-1

C1

JUMPER IF BOTH PUMPS TO RUN

P1 MOISTURE CR3

73A

P1 MOT CR2

74

M1

ETM

PTT

70

PUMP #1 CALL

PUMP #1 IN AUTO TO PLC DI-2

O/L2

H

A

SW-2

75

75A

TD1

FROM PLC DO-2

S2

TO PLC DI-2

C2

JUMPER IF BOTH PUMPS TO RUN

P2 MOISTURE CR5

78A

P2 MOT CR4

79

M2

ETM

PTT

70

PUMP #2 CALL

PUMP #2 IN AUTO TO PLC DI-5

MOT

MOT

CR

CR

134P1

AM 1

133P1

134P2

AM 2

137P2

DM1

DM2

DM3

SEE DETAIL "A" BELOW

DISCHARGE PRESSURE METER

LOOP POWER SUPPLY

PUMP CONTROL WIRING DIAGRAM

INTRINSICALLY SAFE RELAY BOARD

72-144

J2-1 J1-4 J1-7

K1B

CR X

N3

121

J2-2 J1-2 J1-3

K2B

CR X

N3

122

J2-3 J1-12 J1-15

K3B

J2-4 J1-10 J1-13

K4B

SECONDARY J2-9

PRIMARY J2-10

H2A

J2-7

N2A

P1B CB

MOISTURE

(2) #10 TYPICAL

PUMP No. 1 MOISTURE

P2B CB

MOISTURE

PUMP No. 2 MOISTURE

P3B CB

P4B CB

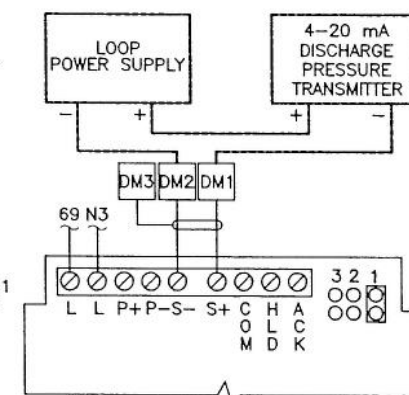
STATE OF LOUISIANA

BRYAN K. HARMON

REG. No. 22595

REGISTERED PROFESSIONAL ENGINEER

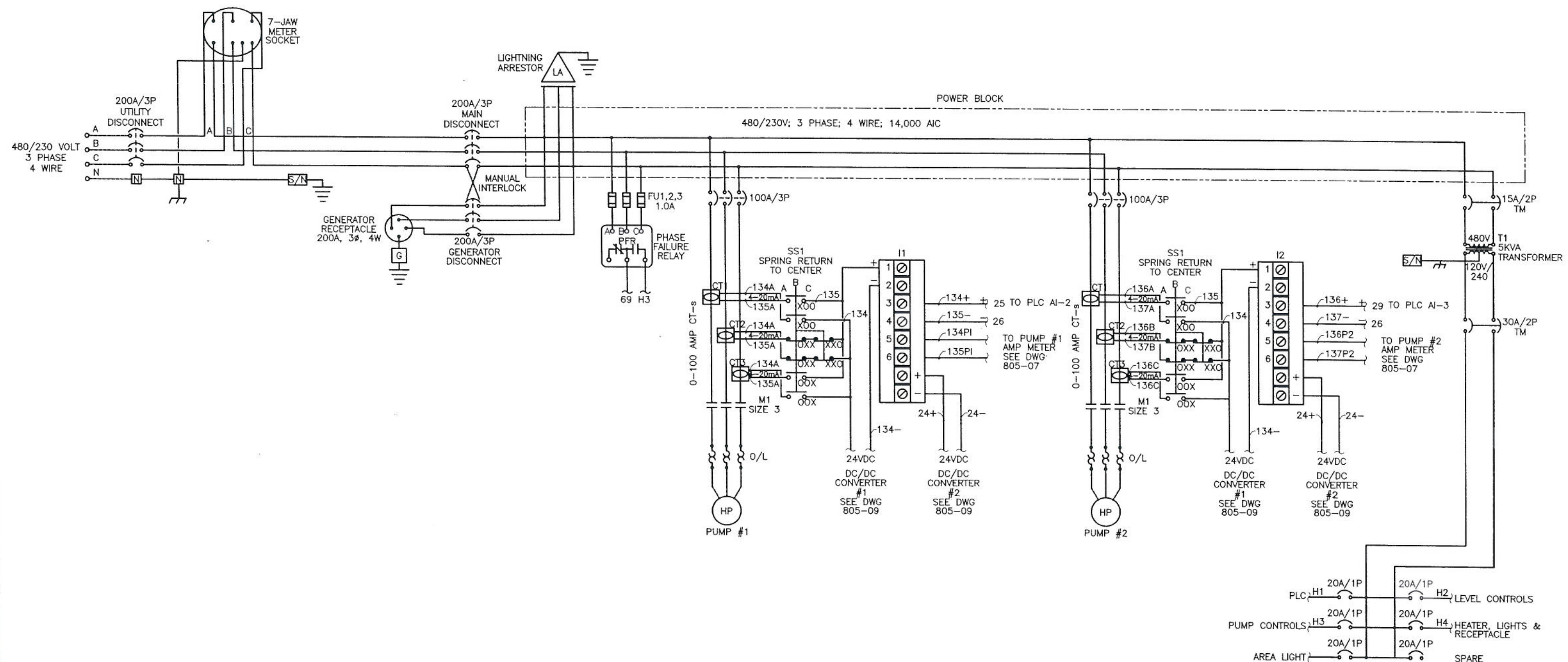
February 29, 2008

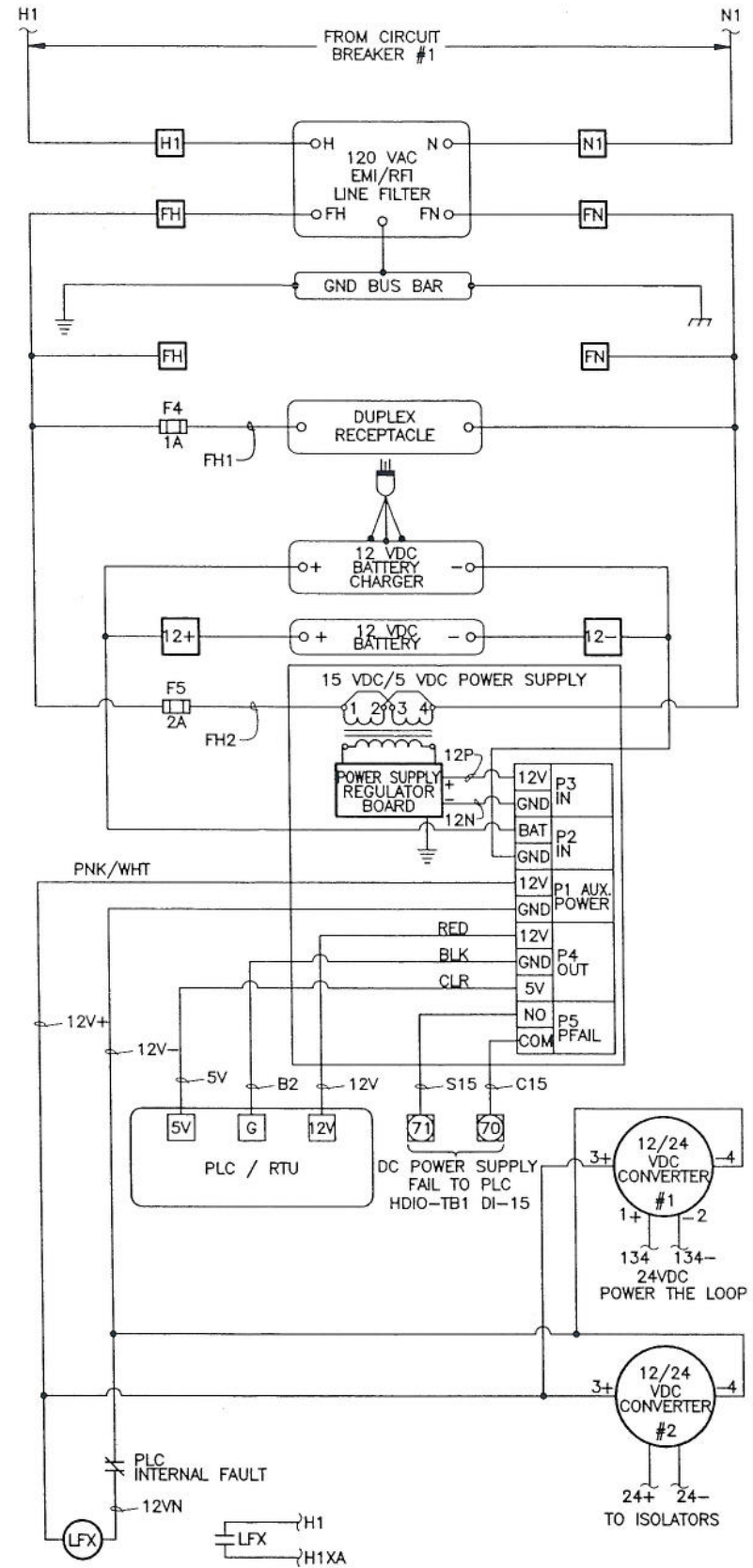


STANDARD PLAN NO. 805-07	DATED FEBRUARY 29, 2008	SHEET NO. 1 OF 1
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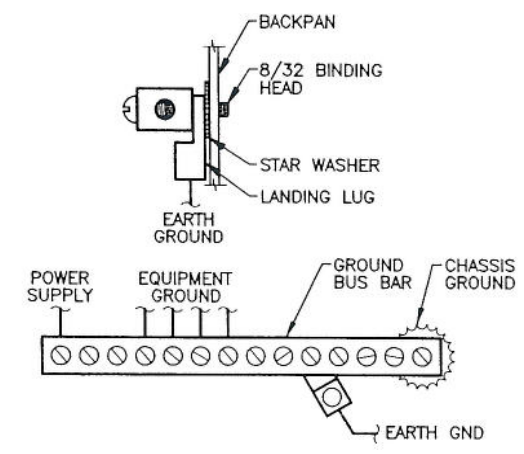
POWER DISTRIBUTION AND PUMP CONTROL DIAGRAM DUPLEX STATION

ENGINEERING DIVISION			
DEPARTMENT OF PUBLIC WORKS			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED	DRAWN	CHECKED	APPROVED
A. SCHULZE	G. VANNICE	R. WRIGHT	B. HARMON





PLC POWER DISTRIBUTION



EQUIPMENT GROUNDING DETAIL
(NOT TO SCALE)

POWER SUPPLY RATING	
15 VDC, 3.0 AMP AUXILLARY POWER (1.0 A)	
15 VDC, 6.0 AMP AUXILLARY POWER (4.0 A)	
15 VDC, 9.0 AMP AUXILLARY POWER (7.0 A)	

BATTERY & CHARGER CAPACITY	
12 AMP-HOUR SLA GEL-CELL BATTERY 800mA BATTERY CHARGER	
18 AMP-HOUR SLA GEL-CELL BATTERY 2 AMP BATTERY CHARGER	
40 AMP-HOUR SLA GEL-CELL BATTERY 4 AMP BATTERY CHARGER	



STANDARD PLAN NO. 805-09	DATED FEBRUARY 29, 2008	SHEET NO. 1 OF 1
PLC POWER DISTRIBUTION DUPLEX STATION		
ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE		
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED R. WRIGHT
DATE 2/29/08	DESCRIPTION REPLACES DRAWING DATED 8/1/07, SIGNED 8/8/07	APPROVED B. HARMON