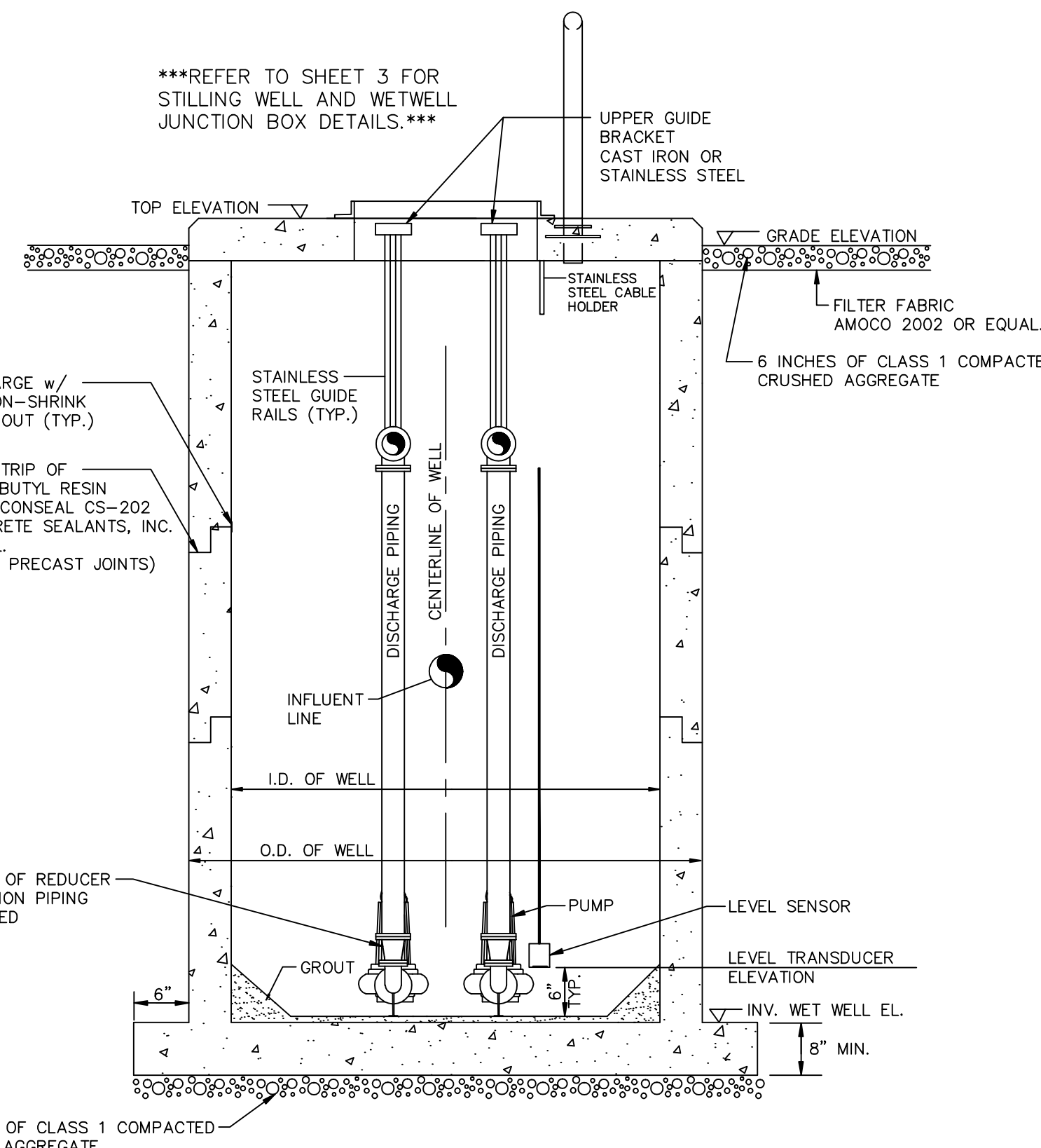
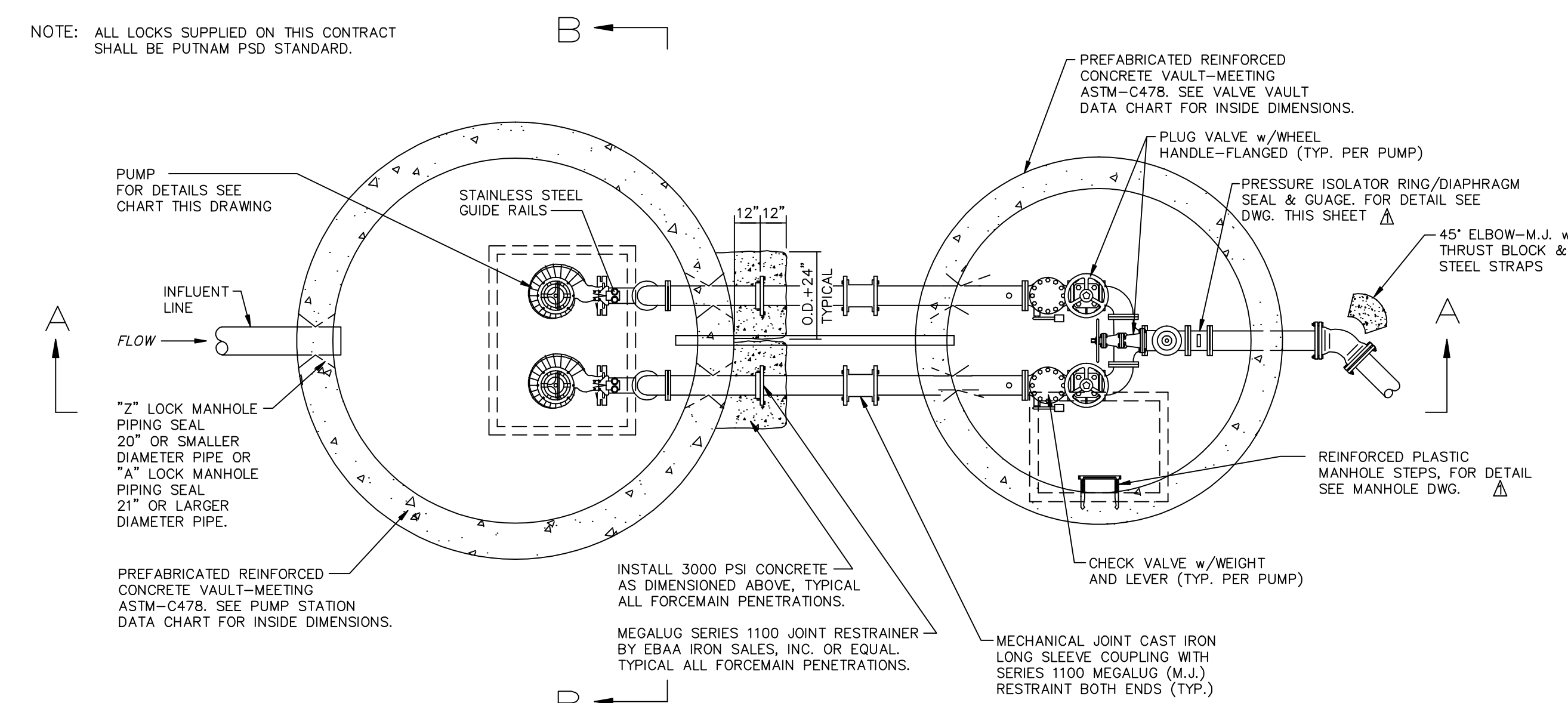


PUMP STATION DATA CHART

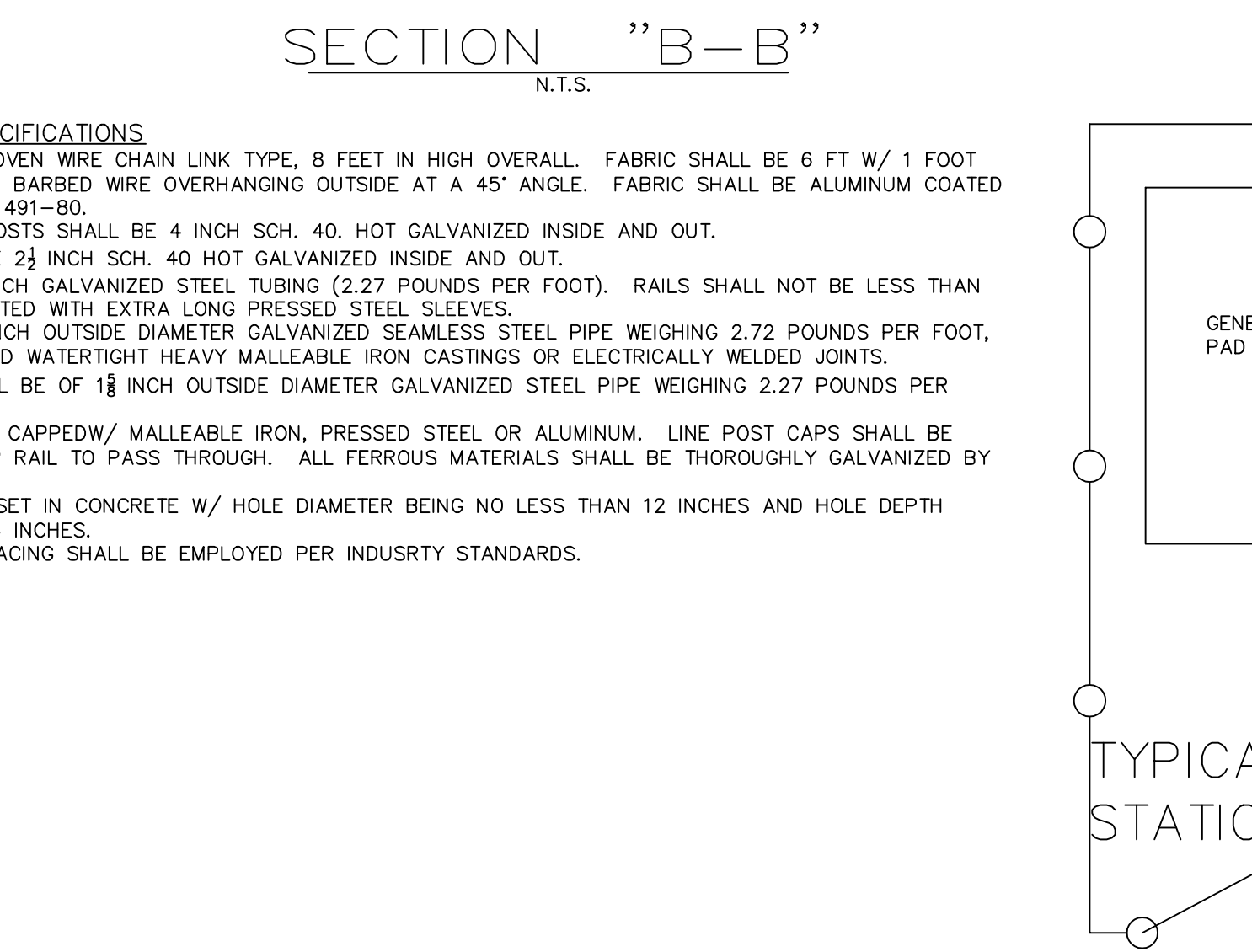
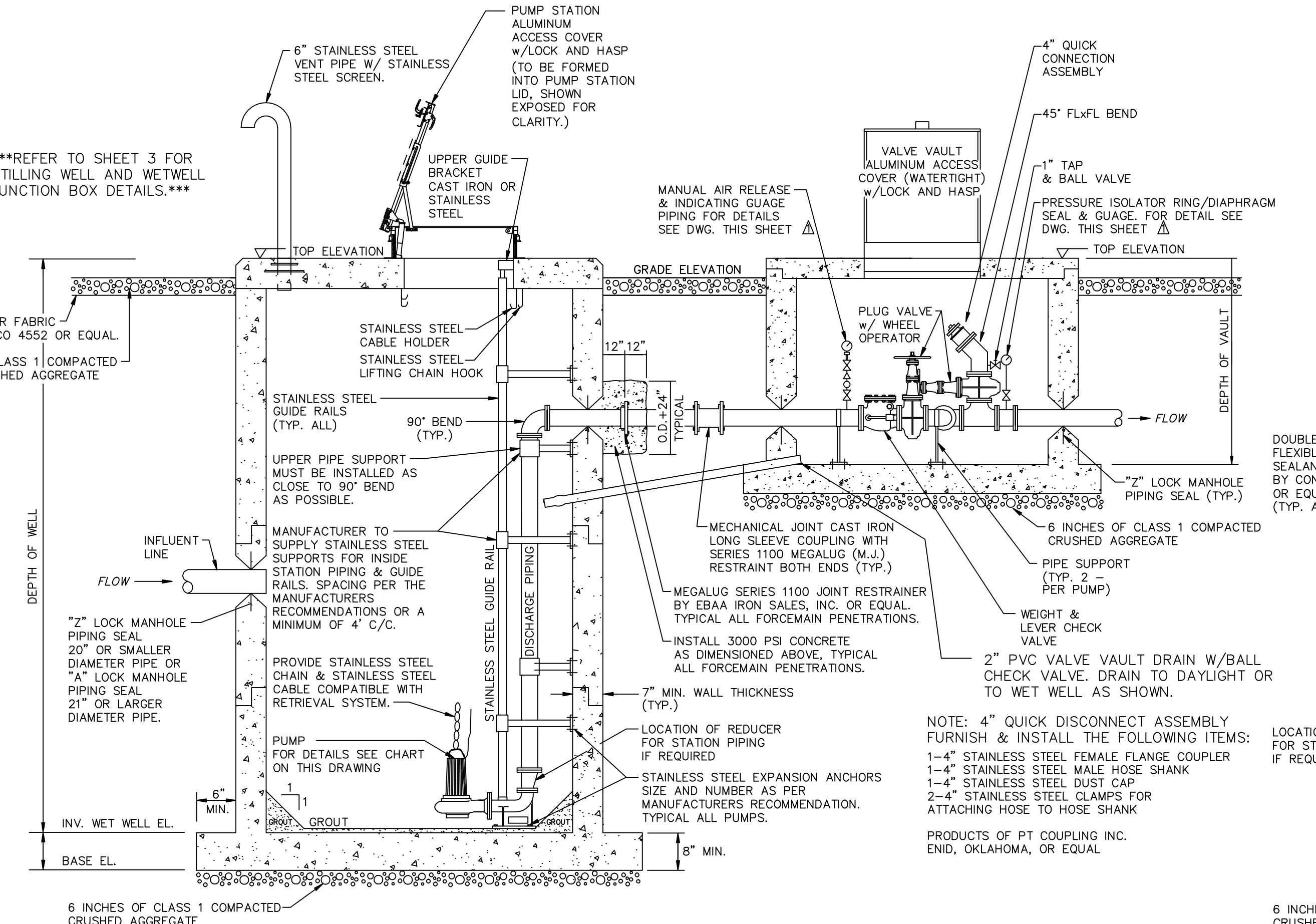
PUMP STATION	PUMP STATION	PUMP STATION	PUMP STATION
G.P.M.			
T.D.H.			
DIA. OF PUMP DISCHARGE			
DIA./TYPE STATION PIPING			
DIA. OF FORCE MAIN			
DIA. OF INFLUENT LINE			
INVERT OF INFLUENT LINE			
CENTERLINE OF DISCHARGE PIPING			
TOP ELEVATION			
GRADE ELEVATION			
BASE ELEVATION			
DEPTH OF WELL			
I.D. OF WELL			
O.D. OF WELL			
INVERT OF WELL			
ALUMINUM ACCESS COVER (S)			
PUMP OFF			
LEAD PUMP ON			
LAG PUMP ON			
HIGH LEVEL ALARM			
LOW LEVEL ALARM			
LEVEL TRANSDUCER ELEVATION			
PUMP HP (MAX. PER PUMP)			
25 YR . FLOOD ELEV.			
100 YR . FLOOD ELEV.			
NUM. OF PUMPS/ MAX. NUM. OF PUMPS RUNNING			
POWER			
PUMP LIFTING TYPE	COMBINATION VENT/HOIST SOCKET	COMBINATION VENT/HOIST SOCKET	COMBINATION VENT/HOIST SOCKET
LEVEL SENSOR TYPE	TRANSDUCER	TRANSDUCER	TRANSDUCER
PUMP TYPE			

- NOTES :
- PUMP STATION SHALL BE PRECAST CONCRETE. DETAILS ARE REPRESENTATIVE ONLY. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL. (SEE SITE PLAN FOR ORIENTATION).
 - ATTACH WARNING SIGNS TO TOP OF PUMP STATION ACCESS COVERS w/EPOXY. SIGN SHALL BE SERIES 850 AS MANUFACTURED BY ALL STATE SIGN AND PLAQUE OR EQUAL w/BLACK LETTERS ON A WHITE BACKGROUND. SIGN SHALL READ "HAZARDOUS GASSES-VENTILATE BEFORE ENTERING".
 - PRECAST CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS.
 - ORIENTATION OF THE LEVEL SENSOR SHALL BE SUCH THAT THE INFLUENT DOES NOT DISCHARGE DIRECTLY OVER THE SENSORS.
 - PUMP STATION SUPPLIER SHALL SUBMIT COMPLETE BUOYANCY CALCULATIONS FOR REVIEW BY THE ENGINEER. THE PUMP STATION AND VALVE VAULTS SHALL HAVE NEGATIVE BUOYANCY EMPTY, WITHOUT EQUIPMENT AND PIPING INSTALLED. CALCULATIONS SHALL BE BASED ON GROUND WATER AT SURFACE.
 - REFER TO DRAWING SHEET 3 FOR DETAILS OF WETWELL PEDESTAL JUNCTION BOX AND STILLING WELL INSTALLATION.
 - FOR PUMP STATION & VALVE VAULT DATA CHART SEE THIS DRAWING.
 - 2" STATION PIPING SHALL BE SCHEDULE 40, 304 STAINLESS STEEL.
 - W.T. INDICATES ACCESS COVERS TO BE WATER TIGHT.
 - C.O. INDICATES CLEAR OPENING.
 - CONTRACTOR TO MAINTAIN SERVICE TO EXISTING CUSTOMERS UNTIL NEW SYSTEM IS OPERATIONAL.
 - XYPEX ADMIXTURE REQUIRED IN ALL STRUCTURES EXPOSED TO SEWER GAS/FLOWS AT A RATE OF 2.5 TO 2.9%.
 - A SINGLE RECEIVING MANHOLE SHALL BE EMPLOYED. ALL FLOWS SHALL PASS THROUGH THE RECEIVING MANHOLE AND INTO THE PUMPING STATION.
 - ALL BOLTS INSIDE WET WELL AND VALVE VAULT SHALL BE STAINLESS STEEL.
 - LEVEL SENSOR STILLING WELL SHALL BE 6" SCH. 40 PVC PIPE.



VALVE VAULT DATA CHART

VALVE VAULT DATA GENERAL INFORMATION	PUMP STATION	PUMP STATION	PUMP STATION
TOP ELEVATION			
GRADE ELEVATION			
DEPTH OF VAULT			
INSIDE DIMENSIONS OF VAULT			
CENTERLINE ELEV. OF PIPING			
ALUMINUM ACCESS COVER (S)	(W.T.)	(W.T.)	(W.T.)
CHECK VALVES			
PLUG VALVES			
INVERT OF VAULT			



DIAPHRAGM SEAL SPECS

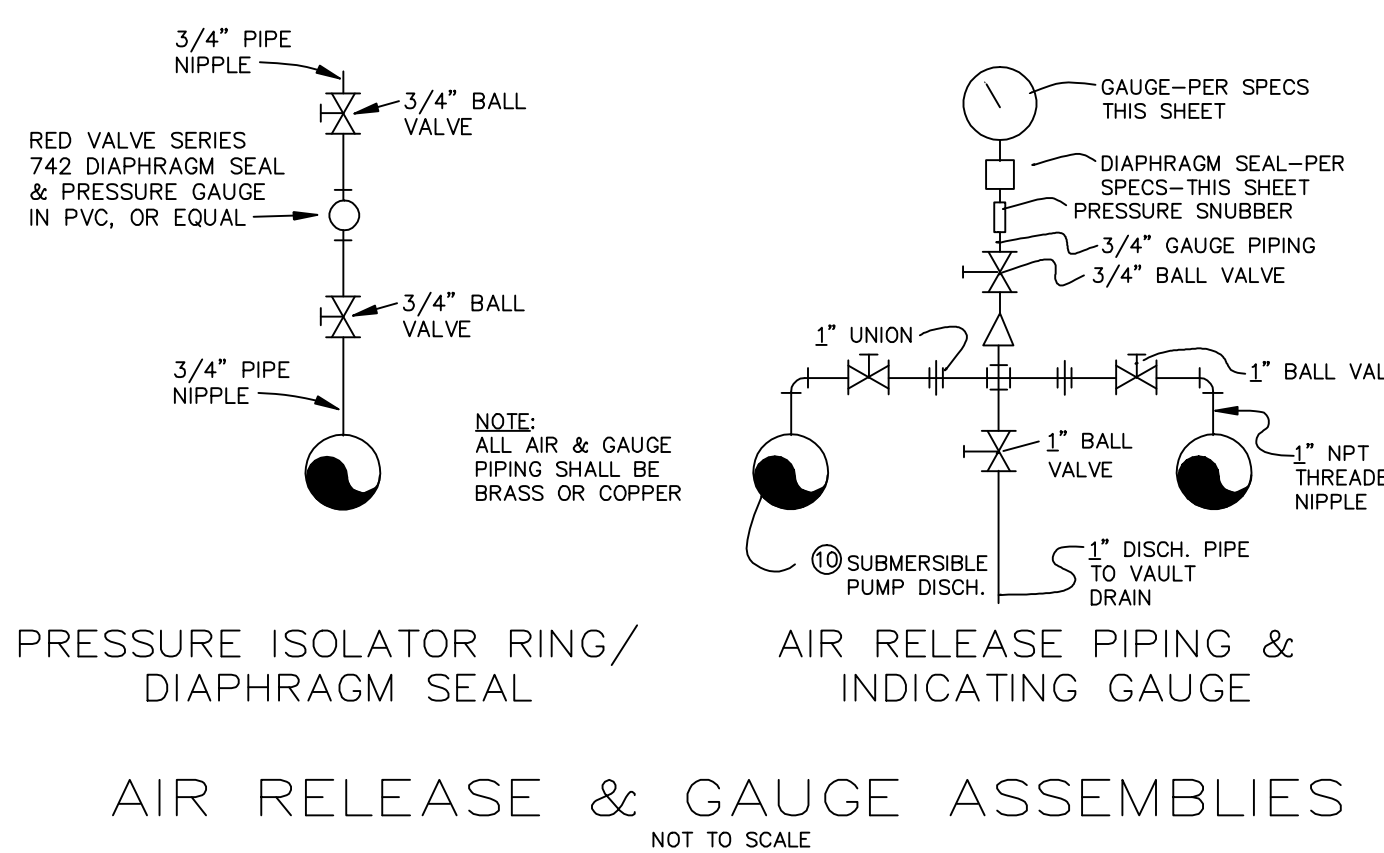
LIQUID FILLED DIAPHRAGM SEALS SHALL BE INSTALLED ON ALL GAUGES. DIAPHRAGM SEALS SHALL BE OF THE CONTINUOUS DUTY TYPE, 3 PIECE CONSTRUCTION WITH 1/4" FLUSHING CONNECTION 316 STAINLESS STEEL LOWER HOUSING AND DIAPHRAGM MATERIALS, 1/4" GAUGE CONNECTION AND 1/2" LOWER CONNECTION. VITON DIAPHRAGMS ARE REQUIRED ON LOW RANGE PRESSURE APPLICATIONS (LESS THAN 15 PSIG). HOUSING BOLTS SHALL ALSO BE STAINLESS STEEL. ACCEPTABLE MODELS ARE MARSH 42-01, HELICOID 100-H, OR EQUAL. DIAPHRAGM SEALS SHALL BE "PERMANENTLY" ATTACHED TO GAUGES BY INSTALLATION OF A LEAD SEALED WIRE CONNECTING THE TWO. THIS IS TO PREVENT ACCIDENTAL LOSS OF FILL FLUID. FILL FLUID SHALL BE FACTORY INSTALLED SILICONE. ALL SEALS SHALL BE PRECALIBRATED.

GAUGE SPECIFICATIONS

GAUGE SHALL HAVE PHOSPHOR BRONZE BOURDON TUBES, WHITE LAMINATED PHENOL DIALS. GAUGES SHALL BE 4 1/2" AND HAVE MICROMETER ADJUSTMENT OF POINTERS AND BLACK PHENOL, BLACK CAST IRON, BRASS OR ALUMINUM CASE AND RING, ROTARY GEAR DESIGN, CORROSION RESISTANT, ST. STL. MOVEMENT, BLOWOUT PROTECTION, AND BRONZE SOCKETS W/ WRENCH FLATS. ACCURACY SHALL BE WITHIN 1/2 OF 1% OF THE SCALE RANGE. THEY SHALL BE MANUFACTURED BY HELICOID GAUGE DIVISION, "410"; JAMES P. MARSH CORP. "MASTERGUAGE"; ASHCROFT; U.S. GAUGE; OR EQUAL. ALL GAUGES SHALL BE PRECALIBRATED. NUMBER OF GAUGES REQUIRED 2 EACH. GAUGE RANGE FROM 0 TO 222 PSI AND FROM 0 TO 222 FEET.

FENCE GENERAL SPECIFICATIONS

1. FENCING SHALL BE WOVEN WIRE CHAIN LINK TYPE, 8 FEET IN HIGH OVERALL. FABRIC SHALL BE 6 FT W/ 1 FOOT OF HEIGHT OF 3 STRAND BARBED WIRE OVERHANGING OUTSIDE AT A 45° ANGLE. FABRIC SHALL BE ALUMINUM COATED STEEL TO MEET ASTM 4 491-80.
 2. CORNER AND GATE POSTS SHALL BE 4 INCH SCH. 40. HOT GALVANIZED INSIDE AND OUT.
 3. LINE POSTS SHALL BE 2 1/2 INCH SCH. 40 HOT GALVANIZED INSIDE AND OUT.
 4. RAILS SHALL BE 1 1/2 INCH GALVANIZED STEEL TUBING (2.27 POUNDS PER FOOT). RAILS SHALL NOT BE LESS THAN 20 FEET IN LENGTH JOINED WITH EXTRA LONG PRESSED STEEL SLEEVES.
 5. GATES SHALL BE 2 INCH OUTSIDE DIAMETER GALVANIZED SEAMLESS STEEL PIPE WEIGHING 2.72 POUNDS PER FOOT, CORNERS FITTED W/ RIGID WATERTIGHT HEAVY MALLEABLE IRON CASTINGS OR ELECTRICALLY WELDED JOINTS. INTERNAL BRACING SHALL BE OF 1 1/2 INCH OUTSIDE DIAMETER GALVANIZED STEEL PIPE WEIGHING 2.27 POUNDS PER FOOT.
 6. ALL POSTS SHALL BE CAPPED W/ MALLEABLE IRON, PRESSED STEEL OR ALUMINUM. LINE POST CAPS SHALL BE DESIGNED TO ALLOW TOP RAIL TO PASS THROUGH. ALL FERROUS MATERIALS SHALL BE THOROUGHLY GALVANIZED BY HOT DIP METHOD.
 7. ALL POST SHALL BE SET IN CONCRETE W/ HOLE DIAMETER BEING NO LESS THAN 12 INCHES AND HOLE DEPTH BEING NO LESS THAN 36 INCHES.
 8. PROPER SUPPORT BRACING SHALL BE EMPLOYED PER INDUSTRY STANDARDS.



NO. DATE DESCRIPTION

REVISIONS

Putnam PSD Putnam Public Service District WASTEWATER COLLECTION SYSTEM
 Scott Depot, West Virginia

PUMP STATION DETAIL DRAWINGS
 APPROVED THROUGH DISTRICT SEWER ORDINANCE I

DRAWN BY: DLM CHECKED BY: JEH DRAWING

SCALE: AS SHOWN DATE: FEB., 2007 **PS 2 of 3**