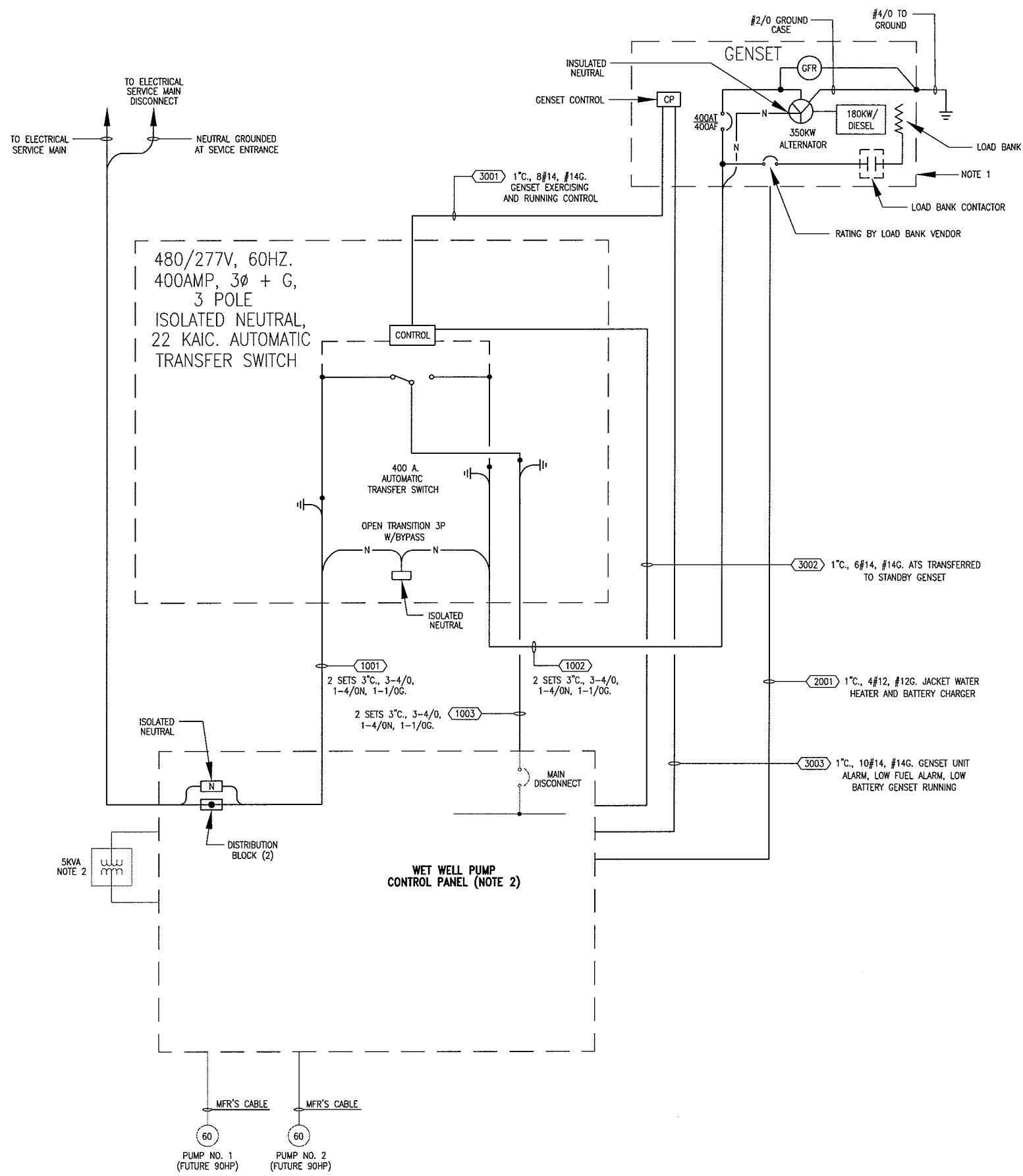


ONE LINE DIAGRAM LEGEND	
	POWER TRANSFORMER
	THERMAL MAGNETIC CIRCUIT BREAKER AF=FRAME SIZE, AT=AMP TRIP
	CONDUIT/CABLE SCHEDULE DESIGNATOR
	GROUND WIRE
	XX = MOTOR HP SIZE



- NOTE:
- GENERATOR SET DESIGNED FOR STARTING LIFT STATION WITH ONE FUTURE 90HP PUMP ONLY.
  - WET WELL PUMP CONTROL PANEL SHALL VARY FROM "ROCKWALL STANDARD" TO INCLUDE THE FOLLOWING:
    - SINGLE MAIN DISCONNECT BREAKER WITH FRAME SIZE FOR FUTURE 90HP MOTORS.
    - 5KVA TRANSFORMER FOR 120/240VAC (MOUNTED EXTERIOR TO PANEL) TO PROVIDE ADDED POWER FOR GENSET JACKET WATER HEATER AND BATTERY CHARGER.
    - 1-2P 20AMP CIRCUIT BREAKER FOR JACKET WATER HEATER.
    - 1-1P 20AMP CIRCUIT BREAKER FOR GENERATOR BATTERY CHARGER.
    - PROVIDE INTERLOCK IN CONTROL PANEL FOR ONE PUMP ONLY OPERATION DURING STANDBY GENERATOR SET OPERATION.
    - IDENTIFY ADDED SIGNALS TO BE INCORPORATED IN CITY PLC.
  - AUTOMATIC TRANSFER SWITCH SHALL BE SELECTED FOR RACK MOUNTING IN NEMA 4X ENCLOSURE ADD JACKET TO WET WELL CONTROL PANEL.
  - ALL WIRE AND CABLE SHOWN ARE XHHW STANDARD COPPER.

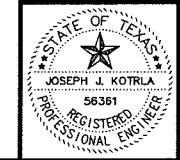
This record drawing is a compilation of the sealed engineering drawing for this project; modified by addenda, change orders and information furnished by the contractor. The information shown on the record drawings that was provided by the contractor or others not associated with the design engineer cannot be verified for accuracy or completeness. This original sealed drawings are on file at the offices of Birkhoff, Hendricks & Conway, L.L.P.  
 BY JJK DATE 11/06/08

These plans and related specifications were prepared for construction of this specific project only. Reuse of these documents is not permitted without written authorization of Birkhoff, Hendricks, & Conway, L.L.P.

ONE LINE DIAGRAM

VERIFY SCALE  
 Bar is one inch on original drawing.  
 0 1  
 If not one inch on this sheet, adjust scale accordingly.

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.  
 DATE: 11-18-05



CITY OF ROCKWALL, TEXAS

F.M. 3097 SAN. SEW. IMPROVEMENTS  
 LIFT STATION GENSET ONE-LINE DIAGRAM

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.  
 CONSULTING ENGINEERS  
 Dallas, Texas

DESIGNED BY: W.H.G.	PROJECT: 2004-147	SHEET NO. 33
DRAWN BY: M.E.G.	DATE: NOVEMBER, 2005	OF 35 SHEETS