GENERAL NOTES THIS PROJECT

1. ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS AND PROVIDE ADEQUATE WORKSHOPS FOR WORKTEXTS TO PERMISE THE CONTRACTOR TO CONDUCT ALL WORK WHICH IS A PART OF THIS CONTRACT.

2. ALL ELECTRICAL DEVICES, MACHINES, EQUIPMENT AND MACHINES SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) U.L. LISTED, AND OTHER APPLICABLE NATIONAL AND LOCAL CODES, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CONTRACT DRAWINGS.

3. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL LOCAL, STATE AND LOCAL CODES.

4. THE CONTRACTOR SHALL CONSTRUCT THE ELECTRICAL UTILITY AND USE THE MANUFACTURER'S SPECIFICATIONS FOR ALL ELECTRICAL MATERIALS AND MACHINES. THE CONTRACTOR SHALL INCLUDE THE MANUFACTURER'S NAME AND MODEL NUMBER. THE MANUFACTURER'S SPECIFICATIONS SHALL BE SUPPLIED TO THE CONTRACTOR PRIOR TO THE ORDERING OF ANY ELECTRICAL DEVICES AND EQUIPMENT.

5. PROJECT CONTRACTORS SHALL PROVIDE U.L. LISTED AND NATIONAL ELECTRICAL CODE CONSTRUCTION.

6. CONTRACTORS ARE TO WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICT DURING CONSTRUCTION.

7. UNLESS NOTED OTHERWISE, USE COPPER CONDUIT FOR ALL CONDUIT INSTALLATION. THE MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES TO INDICATE A QUALITY STANDARD AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS REMAIN EQUAL, AND APPROVED BY THE DESIGNER WILL BE ACCEPTED.

8. PROJECT CONTRACTORS SHALL PROVIDE AND INSTALL ALL REQUIRED CONDUIT, CABLES AND CONDUIT FITTINGS.

9. UNLESS NOTED OTHERWISE, USE COPPER CONDUIT FOR ALL CONDUIT INSTALLATION. THE MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES TO INDICATE A QUALITY STANDARD AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS REMAIN EQUAL, AND APPROVED BY THE DESIGNER WILL BE ACCEPTED.

10. PROVIDE SEPARATE SUPPORT FOR CONDUIT, HARD CONDUIT, AND FLEXIBLE CONDUIT. THE USE OF SNUG MOUNT IT IS NOT PERMITTED.

11. ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS AND PROVIDE ADEQUATE WORKSHOPS FOR WORKTEXTS TO PERMISE THE CONTRACTOR TO CONDUCT ALL WORK WHICH IS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S NAME AND MODEL NUMBER. THE MANUFACTURER'S SPECIFICATIONS SHALL BE SUPPLIED TO THE CONTRACTOR PRIOR TO THE ORDERING OF ANY ELECTRICAL DEVICES AND EQUIPMENT.

12. PROVIDE SEPARATE SUPPORT FOR CONDUIT, HARD CONDUIT, AND FLEXIBLE CONDUIT. THE USE OF SNUG MOUNT IT IS NOT PERMITTED.

13. ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS AND PROVIDE ADEQUATE WORKSHOPS FOR WORKTEXTS TO PERMISE THE CONTRACTOR TO CONDUCT ALL WORK WHICH IS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S NAME AND MODEL NUMBER. THE MANUFACTURER'S SPECIFICATIONS SHALL BE SUPPLIED TO THE CONTRACTOR PRIOR TO THE ORDERING OF ANY ELECTRICAL DEVICES AND EQUIPMENT.

14. PROVIDE SEPARATE SUPPORT FOR CONDUIT, HARD CONDUIT, AND FLEXIBLE CONDUIT. THE USE OF SNUG MOUNT IT IS NOT PERMITTED.

15. ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS AND PROVIDE ADEQUATE WORKSHOPS FOR WORKTEXTS TO PERMISE THE CONTRACTOR TO CONDUCT ALL WORK WHICH IS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S NAME AND MODEL NUMBER. THE MANUFACTURER'S SPECIFICATIONS SHALL BE SUPPLIED TO THE CONTRACTOR PRIOR TO THE ORDERING OF ANY ELECTRICAL DEVICES AND EQUIPMENT.

16. PROVIDE SEPARATE SUPPORT FOR CONDUIT, HARD CONDUIT, AND FLEXIBLE CONDUIT. THE USE OF SNUG MOUNT IT IS NOT PERMITTED.

17. ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS AND PROVIDE ADEQUATE WORKSHOPS FOR WORKTEXTS TO PERMISE THE CONTRACTOR TO CONDUCT ALL WORK WHICH IS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S NAME AND MODEL NUMBER. THE MANUFACTURER'S SPECIFICATIONS SHALL BE SUPPLIED TO THE CONTRACTOR PRIOR TO THE ORDERING OF ANY ELECTRICAL DEVICES AND EQUIPMENT.

18. PROVIDE SEPARATE SUPPORT FOR CONDUIT, HARD CONDUIT, AND FLEXIBLE CONDUIT. THE USE OF SNUG MOUNT IT IS NOT PERMITTED.

19. ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS AND PROVIDE ADEQUATE WORKSHOPS FOR WORKTEXTS TO PERMISE THE CONTRACTOR TO CONDUCT ALL WORK WHICH IS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S NAME AND MODEL NUMBER. THE MANUFACTURER'S SPECIFICATIONS SHALL BE SUPPLIED TO THE CONTRACTOR PRIOR TO THE ORDERING OF ANY ELECTRICAL DEVICES AND EQUIPMENT.

20. PROVIDE SEPARATE SUPPORT FOR CONDUIT, HARD CONDUIT, AND FLEXIBLE CONDUIT. THE USE OF SNUG MOUNT IT IS NOT PERMITTED.

21. ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS AND PROVIDE ADEQUATE WORKSHOPS FOR WORKTEXTS TO PERMISE THE CONTRACTOR TO CONDUCT ALL WORK WHICH IS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S NAME AND MODEL NUMBER. THE MANUFACTURER'S SPECIFICATIONS SHALL BE SUPPLIED TO THE CONTRACTOR PRIOR TO THE ORDERING OF ANY ELECTRICAL DEVICES AND EQUIPMENT.

22. PROVIDE SEPARATE SUPPORT FOR CONDUIT, HARD CONDUIT, AND FLEXIBLE CONDUIT. THE USE OF SNUG MOUNT IT IS NOT PERMITTED.

23. ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS AND PROVIDE ADEQUATE WORKSHOPS FOR WORKTEXTS TO PERMISE THE CONTRACTOR TO CONDUCT ALL WORK WHICH IS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S NAME AND MODEL NUMBER. THE MANUFACTURER'S SPECIFICATIONS SHALL BE SUPPLIED TO THE CONTRACTOR PRIOR TO THE ORDERING OF ANY ELECTRICAL DEVICES AND EQUIPMENT.

24. PROVIDE SEPARATE SUPPORT FOR CONDUIT, HARD CONDUIT, AND FLEXIBLE CONDUIT. THE USE OF SNUG MOUNT IT IS NOT PERMITTED.

25. ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS AND PROVIDE ADEQUATE WORKSHOPS FOR WORKTEXTS TO PERMISE THE CONTRACTOR TO CONDUCT ALL WORK WHICH IS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S NAME AND MODEL NUMBER. THE MANUFACTURER'S SPECIFICATIONS SHALL BE SUPPLIED TO THE CONTRACTOR PRIOR TO THE ORDERING OF ANY ELECTRICAL DEVICES AND EQUIPMENT.

26. PROVIDE SEPARATE SUPPORT FOR CONDUIT, HARD CONDUIT, AND FLEXIBLE CONDUIT. THE USE OF SNUG MOUNT IT IS NOT PERMITTED.

27. ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS AND PROVIDE ADEQUATE WORKSHOPS FOR WORKTEXTS TO PERMISE THE CONTRACTOR TO CONDUCT ALL WORK WHICH IS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S NAME AND MODEL NUMBER. THE MANUFACTURER'S SPECIFICATIONS SHALL BE SUPPLIED TO THE CONTRACTOR PRIOR TO THE ORDERING OF ANY ELECTRICAL DEVICES AND EQUIPMENT.

28. PROVIDE SEPARATE SUPPORT FOR CONDUIT, HARD CONDUIT, AND FLEXIBLE CONDUIT. THE USE OF SNUG MOUNT IT IS NOT PERMITTED.
GENERAL NOTES THIS SHEET

1. All references shown to REMARKS area.

2. At existing underground well house, (3) well pumps will be removed. The well lascides will be disconnected to the surface. The tank (E) will be abandoned. (E) electrical feeder to the remaining (3) pumps will be disconnected and relocated as required to the new plans.

DEMO FLAG NOTES THIS SHEET

1. Existing wiring abuse.
2. Disconnect indicated well pumps for removal. Disconnect associated conduit and wiring from controllers and from source.
3. At existing underground well house, existing electrical and control devices, raceways and conductors shall be abandoned.
4. Existing tank level controls to be abandoned in place.
5. Existing MDP equipment and associated conduit and raceways.
6. Disconnect feeder to existing transformers to render existing control devices #6AWG feeder from three (3) existing fused switches and label switches as spare. The switches are currently labeled and sized as follows:
   - 'DEEP WELL PUMP', 30A.
   - '5-HP IRR PUMP', 30A.
   - '10-HP IRR PUMP', 60A.

7. At existing MDP, disconnect #6AWG feeder from three (3) existing fused switches and label switches as 'Spare'. The switches are currently labeled and sized as follows:
   - 'DEEP WELL PUMP', 30A.
   - '5-HP IRR PUMP', 30A.
   - '10-HP IRR PUMP', 60A.

1. All devices shown to REMARKS area.
2. At existing underground well house, (3) well pumps will be removed, (1) of the well casings will be extended to the surface. The other (2) wells will be abandoned. EC shall cut or remove all (E) wiring as required to render the well house "SAFE OFF" and prepare it to be filled with sand for abandonment. Provide new circuit to the extended well as shown and as required in the new plan.
NEW ELECTRICAL PLAN

NEW FLAG NOTES THIS SHEET

1. PROVIDE AND INSTALL NEW 2" POWER CONDUIT FOR PUMP PANEL POWER FEED. SEE NEW ONSITE DIAGRAM.
2. PROVIDE AND INSTALL NEW 1" POWER CONDUIT FOR WET-WELL PUMP. SEE NEW ONSITE DIAGRAM.
3. PROVIDE AND INSTALL NEW 1" POWER CONDUIT FOR WET-WELL FLOAT CONTROLS.
4. PROVIDE AND INSTALL NEW 1" POWER CONDUIT FOR WET-WELL FLOAT CONNECTION.
5. PROVIDE 120VAC BRANCH CIRCUIT AND CONNECTIONS FOR HEAT TRACE. PROVIDE GFCI CIRCUIT BREAKER FOR EQUIPMENT PROTECTION (30mA) IN EXISTING PANEL 'CS'.
6. PROVIDE NEW 1" C WITH (1) CAT 5E CABLE FROM EXISTING DATA CLOSET IN TRAINING CENTER TO ROUTE ABOVE ACCESSIBLE CEILINGS AND EXPOSED IN OPEN SHOP CEILINGS, ATTACHED TO EXISTING EXTERIOR OVERHEAD SUPPORT TO EXISTING COMPRESSOR SHED. STUB CONDUIT INTO CEILING OF EXISTING DATA CLOSET. CONNECT TO NEW PUMP CONTROLLER IN EXISTING COMPRESSOR SHED. CONNECT CABLE IN DATA CLOSET PER DIRECTIONS FROM LCCC.
7. PROVIDE 120VAC BRANCH CIRCUIT CONNECTION AS REQUIRED FOR IRRIGATION CONTROLLER.
8. PROVIDE AND INSTALL NEW 20A GFCI WEATHER PROOF OUTLET AND COVER. INSTALL ON WALL OF SHED. CIRCUIT TO NEW TRANSFORMER/PANEL.
9. PROVIDE AND INSTALL NEW FLAG NOTES THIS SHEET
IRRIGATION SYSTEM PUMPING FUNCTION CONTROL OUTLINE

- **WELL PUMP ON FLOAT**
  - WELL PUMP ON FLOAT TO BE INITIATED BY CHANGING SYSTEM TO OFF POSITION AT PUMP CONTROLLER.
  - PUMP RUNNING SPEED TO BE MODULATED ON PID CONTROL TO MAINTAIN SET DISCHARGE PRESSURE.
  - PUMP START TO BE INITIATED BY SYSTEM ON STATUS WITH PUMPS IN AUTO POSITION BASED ON TIMER PROGRAM SEQUENCE SO THAT FIRST TANK TO CALL FOR FILL IS COMPLETELY FILLED BEFORE VALVE CLOSE AND WELL PUMP STOP.

- **WETWELL TANK FLOAT**
  - WETWELL TANK FLOAT CHANGING FROM THE FLOATING POSITION TO THE SUSPENDED POSITION SHALL INITIATE SOLENOID VALVE CLOSE AND WELL PUMP STOP.
  - WELL PUMP STOP FLOAT CHANGING FROM THE SUSPENDED TO FLOATING POSITION SHALL INITIATE WELL PUMP START TO BE INITIATED FROM WELL PUMP ON FLOAT CHANGING FROM THE FLOATING POSITION TO THE SUSPENDED POSITION.

- **IRRIGATION PUMP ALTERNATOR.**
  - PROVIDE HANDOFF AUTO SWITCH FOR EACH PUMP.
  - PROVIDE SOURCE CODE TO LCCC FOR INTERFACE BY OTHERS TO USING BACNET PROTOCOL OF THE FOLLOWING SIGNALS:
    - PRESSURE TRANSMITTER CONTROLLER.
    - FVNR STARTER FOR WELL PUMP.
    - VFD FOR IRRIGATION PUMP.
    - PROGRAMMABLE TIMER.
    - SOLENOID VALVE 1 CONTROL (DISCRETE).
    - WELL PUMP ON FLOAT (DISCRETE).
    - WETWELL 'B' FLOAT (DISCRETE).

- **GENERAL NOTES THIS SHEET**
  - PROVIDE HANDHELD AUTO SWITCH FOR EACH PUMP.
  - PROVIDE SOURCE CODE TO LCCC FOR INTERFACE BY OTHERS TO USING BACNET PROTOCOL OF THE FOLLOWING SIGNALS:
    - PRESSURE TRANSMITTER CONTROLLER.
    - FVNR STARTER FOR WELL PUMP.
    - VFD FOR IRRIGATION PUMP.
    - PROGRAMMABLE TIMER.
    - SOLENOID VALVE 1 CONTROL (DISCRETE).
    - WELL PUMP ON FLOAT (DISCRETE).
    - WETWELL 'B' FLOAT (DISCRETE).

- **NEW ELECTRICAL ONELINE DIAGRAM**
  - PROVIDE HANDHELD AUTO SWITCH FOR EACH PUMP.
  - PROVIDE SOURCE CODE TO LCCC FOR INTERFACE BY OTHERS TO USING BACNET PROTOCOL OF THE FOLLOWING SIGNALS:
    - PRESSURE TRANSMITTER CONTROLLER.
    - FVNR STARTER FOR WELL PUMP.
    - VFD FOR IRRIGATION PUMP.
    - PROGRAMMABLE TIMER.
    - SOLENOID VALVE 1 CONTROL (DISCRETE).
    - WELL PUMP ON FLOAT (DISCRETE).
    - WETWELL 'B' FLOAT (DISCRETE).