Call 24 Construction necessary to build Headquarters Building, Equipment Shed, and Storage Bins at Dekalb, known as State Project Nos. BWO-5123-35(001), BWO-5214-35(001), BWO-5067-35(003), BWO-5221-35(001), and LWO-5035-35(002) / 502587301, 302, 303, 304, & 305 in Kemper County.

Q1. Sheet C2A shows a 30X15 Concrete pad, what is the thickness and reinforcement required for this pad?

Answer Revision

A1. The pad is to be 6" thick with #4 reinf. bars @ 16" O.C. both ways. Use Detail 7 on Sheet Number 31 for Slab Perimeter. Due to the need for this slab to use Detail 7/31, the costs for this portion of the work shall be included in 907-242-A006 Construction of (Maintenance Area Headquarters).

Q2. Detail 5, Sheet A5.1 call for 07 26 00B as moisture barrier. Should this be the fluid applied moisture barrier (07 27 26)?

A2. Yes, that is correct. Fluid applied moisture barrier goes on exterior plywood sheathing.

Q3. Specification 26 32 13-8, sect.2.07, Para. B The description of a walk-in enclosure with a space heater, automatic dampers, and an electrical package with lights (AC & DC), switch, and outlets are typically available for larger units, 800kW and above. Kohler does not offer a walk-in enclosure for a 150kW nor does any other manufacturer to my knowledge unless an outside vendor is used which elevates the price considerably. As far as lights and convenience outlets, this is not a typical option at this kW range as well, however, can be accomplished by the electrical contractor installing on site to keep overall costs at a minimum. Specification 26 32 13-6, sect 2.03, Para.I, Sentence 1,2 Critical Silencers usually offer a sound reduction of 25 dB, however Sentence 2 is confusing to some degree due to, "after installation". The industry standard for sound tests, without enclosures (open), weather housed enclosures, and sound attenuated enclosures are recorded at 7 meters or 21 feet. I am forwarding a sound data sheet for this particular unit under seperate cover. I would suggest a sound attenuated enclosure which usually is 75dB at 21 feet. Our particular sound enclosure for this unit is 73.5 dB at 21 feet at 100% load and 71.9 dB at 21 feet with no load on generator. Spec. 26 32 13-8, Sect 2.05, Para. B Ground fault indication is typically for 277/480V systems, ground fault protection systems at 277/480V 1000A and above. We can provide but is not necessary for 208V systems. Specification 26 36 00-3, Sect 2.02, Para.F, Sent.1, The transfer switch indicated on the plans is a service entrance rated transfer switch, which will require a molded case circuit breaker at this ampacity for both overload and thermal protection as required for service entrance. ASCO and Russell are the only two manufactures that combine an overcurrent device with its contactor designed switch for normal and emergency. All other manufactures offer the overcurrent device and molded case switch, again for this ampacity. The only other method would be to have a separate overcurrent device wired and piped to a contactor ATS. This would have to be outlined on the plans to afford the electrical contractor to account for the additional material and labor. Would a Molded case overcurrent device for Utility and molded case

switch for emergency be acceptable? Also regarding the ATS annunciation, Cat., Cummins, and Kohler have generator annunciators (required on this project) with a ATS feature which shows the ATS in the normal and or the emergency position, and with a key operated switch can also start the generator at the annunciator and transfer the load. (Storm Mode) However, to use this feature, the molded case circuit Breaker and molded Case ATS design would have to be allowed.

A3. See the addendum for this project.

Q4. The Equipment Shed Plan on ES1.1, Sheet 32 of Drawings shows 3 doors, but does not have a Door Schedule. Please provide information for these doors.

A4. Door S100A – Single 3'-0" x 7'-0" x 1 ¾" HM Door & Frame, HW2 Hardware Set, Detail 8/ES1.4 on Sheet35 for Jamb configuration.

Door S100B – Overhead Coiling 12'-0" wide x 10'-0" high, Motor Operated with auxiliary chain hoist. See Details 1, 2 & 3 on Sheet 35.
Provide termination for roll-up door motor. Coordinate requirements with manufacturer.

Door S101A – Double 3'-0" x 7'-0" x 1 ¾" HM Doors & Frame, HW5 Hardware Set shown below.

HW5 (for Exterior Double Hollow Metal Doors @ Equipment Shed)
Each Opening Shall Have:

6 – Each Hinges	Hager	BB1279 4 1/2 X 4 1/2 X NRP X 652
1 – Lockset	Schlage	D80RD Rhodes X 626
1 – Cylinder	Best	As Required
2 – Flushbolts	Rockwood	555-12" X 626
1 – Threshold	Pemko	2005AV X Required Length
1 – W/Strip	Pemko	303AV
2 – Door Bottom	Pemko	2211AV (for Hollow Metal Doors)
2 – Stops	Rockwood	473 X 626
2 – Silencers		