

CHATHAM COUNTY PURCHASING DEPARTMENT

ADDENDUM NO. 1 TO Bid No. 12-0012-7

FOR: Emergency Generator Installation

PLEASE SEE THE FOLLOWING ADDITIONS, CLARIFICATIONS AND/OR CHANGES:

1. **Addition: Contractor shall install new Surge Protective Device (SPD) below new 1,000 amp service panel. Connect to panel bus via 3-pole 50 amp circuit breaker. See revised Power Riser Diagram shown in attached 8.5" x 11" Sketch SK-E2.1-1.**
Surge Protective Device (SPD) specification:
 - A. **Complies with UL 1449 clamping documentation and category C3 test results.**
 - B. **For 3-phase, 4-wire wye configuration, SPD shall provide suppression elements between all phases and each phase conductor and the system neutral, and between each phase and ground. An additional suppression element is required between the system neutral and the electrical grounding conductor providing a total of (10) suppression elements.**
 - C. **Conductors between suppressor and point of attachment to the panel board shall be kept as short and straight as possible.**
 - D. **NEMA 3R enclosure for outdoor installation.**
 - E. **Service panel: max impulse current: 80,000 A. Pulse rating: 10,000 A, 100 occurrences**
 - F. **Install per manufacturer's written instructions.**
2. **At contractor's option, Service Panel and 125 Amp ATS support structure may be changed from wood to galvanized steel that is hot-dipped after fabrication. See attached sketch 8.5" x 11" SK E2.1-2.**
3. **Contractor shall perform hand-digging in the area where new buried conduit is routed to 250 kW generator and to Maintenance Building #2 so that existing tree roots are not damaged.**
4. **Revise power wiring at Maintenance Building #2 entry as shown in attached 8.5" x 11" Sketches SK-E0.1-1 and SK-E2.1-3.**
5. **Revise drawing Sheet E0.1 Electrical Notes as shown in attached 8.5: x 11: sketch SK-E0.1-2.**
6. **CHANGE: Specifications, Contract Specifications, 1,d - Shall read: Once the service lateral has been disconnected carefully from the existing transformer, the contractor shall route new conductors from utility transformer to the 1,000 amp service panel lugs, shall route new conductors from the service panel's 800 amp 3-pole circuit breaker load-side terminals to the 800 amp ATS's Normal power terminals, shall connect the former service lateral conductors to the 800 amp ATS Common power terminals and shall restore normal power to Building #1.**

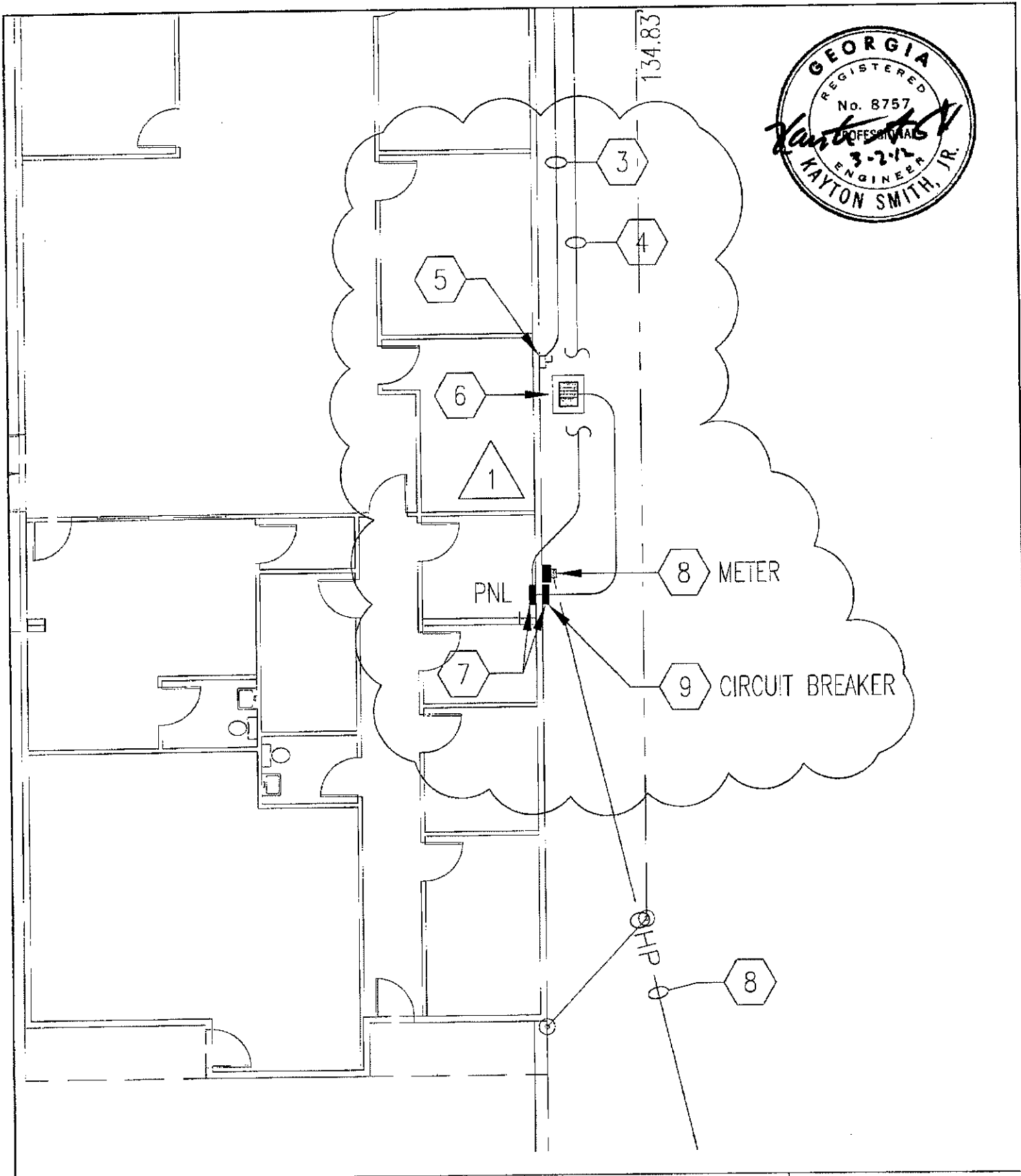
7. **CHANGE: Specifications, Contract Specifications, 3.b - Shall read: Install new feeder from 125 amp service ATS and connect to new 110 amp circuit breaker on outside wall of maintenance building.**
8. **CHANGE: Specifications, Contract Specifications, 3.d - Shall read: Connect wiring from 75 kva transformer secondary (208 volt, 3-phase) to the existing 3-phase panel via existing 200 amp 3-pole circuit breaker on outside of building exterior wall.**
9. **CLARIFICATION: Permitting - CNT is a County owned building, electrical permits to install the emergency generator would come from Building Safety at no cost. However, to work on any other power outside the facility such as Georgia Power pole, all permits would have to come from the City of Savannah.**
10. **CLARIFICATION: Building elevators can be used to remove the existing transfer gear box from the second floor of the Main Office Building #1.**

THE BID OPENING SHALL REMAIN 2PM MARCH 13, 2012.


THE BIDDER IS RESPONSIBLE FOR MAKING THE NECESSARY CHANGES AND MUST ACKNOWLEDGE RECEIPT OF ADDENDUM.

03-06-12
DATE


MARGARET H. JOYNER
PURCHASING AGENT
CHATHAM COUNTY



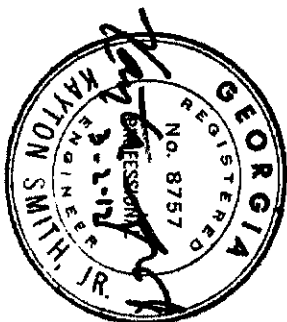
PROJECT NO.	2011.096	DATE	03-02-12	DRAWN BY	MHF	CHECKED BY	KSJ	REVISION NUMBER	1	REFERENCE DRAWING NUMBER	E0.1
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 SMITH and VANDENBULOK ENGINEERING and LANDSCAPE ARCHITECTURE <small>A DIVISION OF SAV ENGINEERING, INC. 5 OGLETHORPE PROFESSIONAL BOULEVARD, SUITE 130 SAVANNAH, GEORGIA 31406 PHONE: 912 354-0240 FACSIMILE: 912-352-8429</small>	Project: CHATHAM COUNTY NARCOTICS DEPARTMENT 68 ROSS ROAD SAVANNAH, GEORGIA Drawing Name: MAINTENANCE BUILDING #2 ELECTRICAL SERVICE REVISION	DRAWING NO. SK E0.1-1
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ELECTRICAL NOTES (SEE POWER RISER DIAGRAM) 1

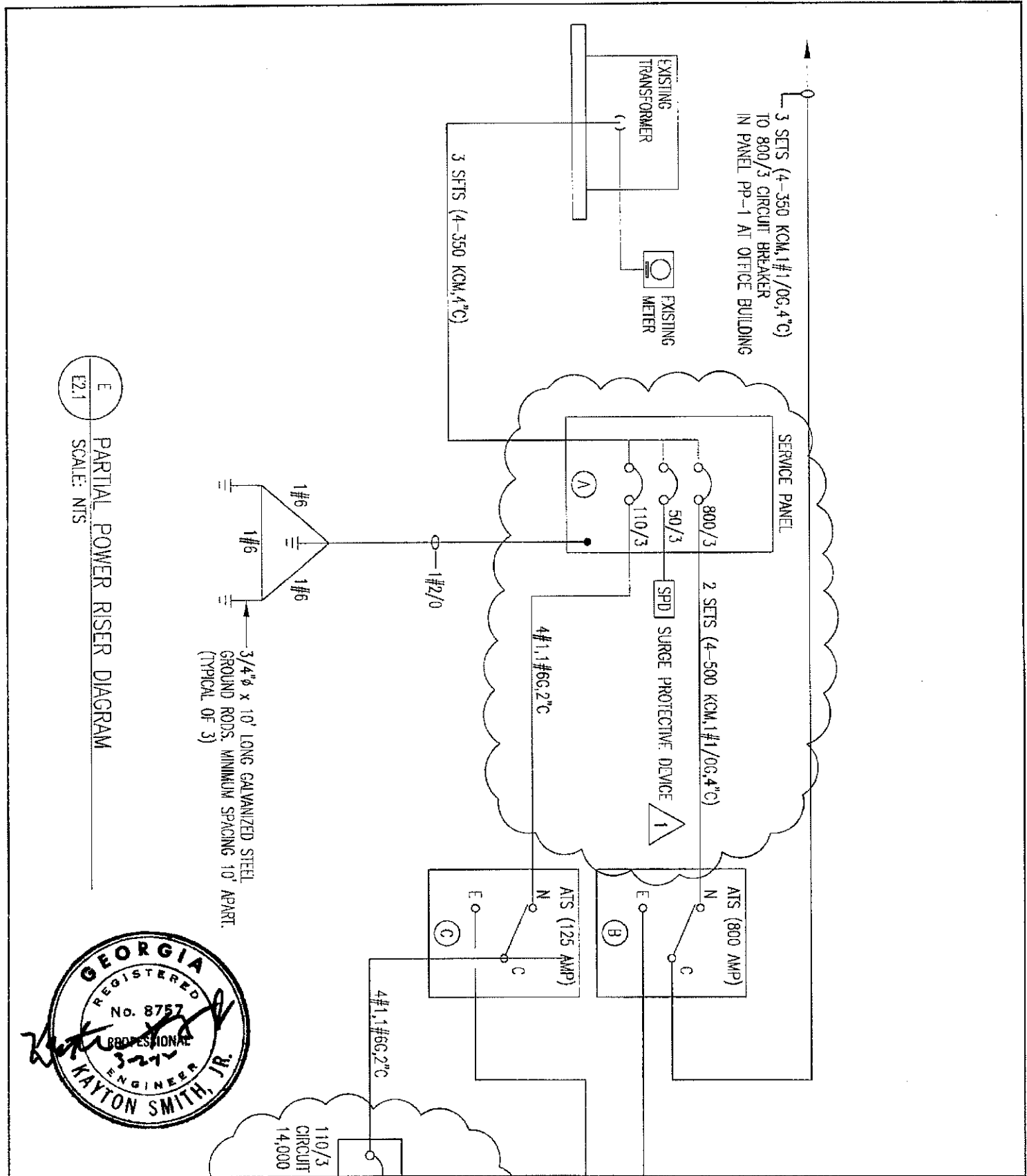
- 1. ROUTE WIRING FROM BELOW GRADE ONTO WALL SURFACE TO ABOVE ROLL-UP DOOR FRAME ELEVATION. CONTINUE TO EXISTING METER LOCATION.
- 2. GENERATOR REMOTE START WIRING TO EXISTING PANEL IN WAREHOUSE BUILDING.
- 3. 4#1,1#6G,2" CONDUIT POWER WIRING ROUTED HIGH ON BUILDING EXTERIOR WALL ABOVE TOP OF VEHICLE ENTRY DOOR. ROUTE WIRING ON BUILDING EXTERIOR WALL AT LOWER ELEVATION TO CONNECT TO NEW 110 AMP 3 POLE CIRCUIT BREAKER ADJACENT TO DIRTY TYPE TRANSFORMER. CONNECT TO NEW 110 AMP 3 POLE CIRCUIT BREAKER.
- 4. CONNECT 2#12,1#12G, 0.75" CONDUIT (REMOVE START WIRING) TO SPARE CIRCUIT BREAKER IN EXISTING PANEL. LABEL "REMOTE GENERATOR START. DO NOT TURN OFF".
- 5. NEW 110 AMP, 3 POLE 480 VOLT RATED CIRCUIT BREAKER IN NEMA 3R ENCLOSURE, WALL SURFACE MOUNTED.
- 6. NEW 75 KVA DRY TYPE CONCRETE PAD MOUNTED WEATHER PROTECTED TRANSFORMER, 480 VOLT, 3 PHASE DELTA PRIMARY, 208/120 VOLT, 3 PHASE SECONDARY, 150' C. RISE. CONNECT PRIMARY TO 125 AMP, 3 POLE CIRCUIT BREAKER. CONNECT NEW GROUNDING ELECTRODE CONDUCTOR FROM TRANSFORMER TO EXISTING GROUND ROD OUTSIDE BUILDING. CONNECT SECONDARY TO EXISTING 200/3 CIRCUIT BREAKER ON BUILDING EXTERIOR.
- 7. EXISTING 200 AMP, 3 POLE MAIN CIRCUIT BREAKER PANEL. WIRING FROM EXISTING 200/3 CIRCUIT BREAKER OUTSIDE OF BUILDING REMAINS. CONNECT TRANSFORMER SECONDARY TO LINE SIDE LUGS. (3 PHASE, 1 NEUTRAL, 1 GROUND). RE-IDENTIFY 'B' PHASE SERVICE CONDUCTOR WITH BLUE TAPE. REMOVE EXISTING ORANGE TAPE INSIDE PANEL.
- 8. COORDINATE REMOVAL OF EXISTING METER, METER BASE, EXISTING OVERHEAD 120/240 VOLT, 3 PHASE "HIGH-LEG" SERVICE CONDUCTORS, AND MAST WITH GEORGIA POWER COMPANY. PATCH WALL WHERE PENETRATIONS OCCURRED.
- 9. EXISTING 200/3 CIRCUIT BREAKER REMAINS.
- 10. RELOCATED 250 KW MOBILE EMERGENCY GENERATOR, COUNTY-OWNED INSTALLED ONTO PERMANENT FOOTING. CONTRACTOR SHALL MOVE THIS EQUIPMENT FROM CHATHAM COUNTY'S RECYCLING CENTER ON ESENHOWER TO INSTALLATION SITE.
- 11. INSTALL AND CONNECT 110 AMP, 3 POLE, 480 VOLT CIRCUIT BREAKER ADJACENT TO EXISTING CIRCUIT BREAKER POSITION INSIDE OF EQUIPMENT WITH OPERATOR HANDLE ACCESSIBLE WHEN ENCLOSURE DOOR IS OPENED.
- 12. REPLACE EXISTING 1200 AMP, 3 POLE, 480 VOLT CIRCUIT BREAKER WITH 800 AMP, 3 POLE CIRCUIT BREAKER AND CONNECT TO GENERATOR LUGS AND EXISTING GENSET OUTPUT LUGS.
- 13. INSTALL PUMP FLOAT SWITCH AND PIPING TO CONNECT 750 GALLON STORAGE TANK TO GENSET DAY TANK.

REVISION NUMBER 1



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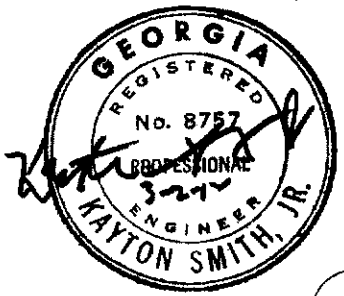
 SMITH and VANDENBULCK ENGINEERING and LANDSCAPE ARCHITECTURE A DIVISION OF SAV ENGINEERING, INC. 5 GOLETHORPE PROFESSIONAL BOULEVARD, SUITE 130 SAVANNAH, GEORGIA 31406 PHONE: 912-354-5249 FACSIMILE: 912-352-8429	Project: CHATHAM COUNTY NARCOTICS DEPARTMENT 68 ROSS ROAD SAVANNAH, GEORGIA Drawing Name: DRAWING SHEET EO.1 NOTES REVISION	DRAWING NO. SK EO.1-2



E
E2.1

PARTIAL POWER RISER DIAGRAM
SCALE: NTS

1#6
1#6
1#6
3/4" x 10' LONG GALVANIZED STEEL
GROUND RODS, MINIMUM SPACING 10' APART.
(TYPICAL OF 3)



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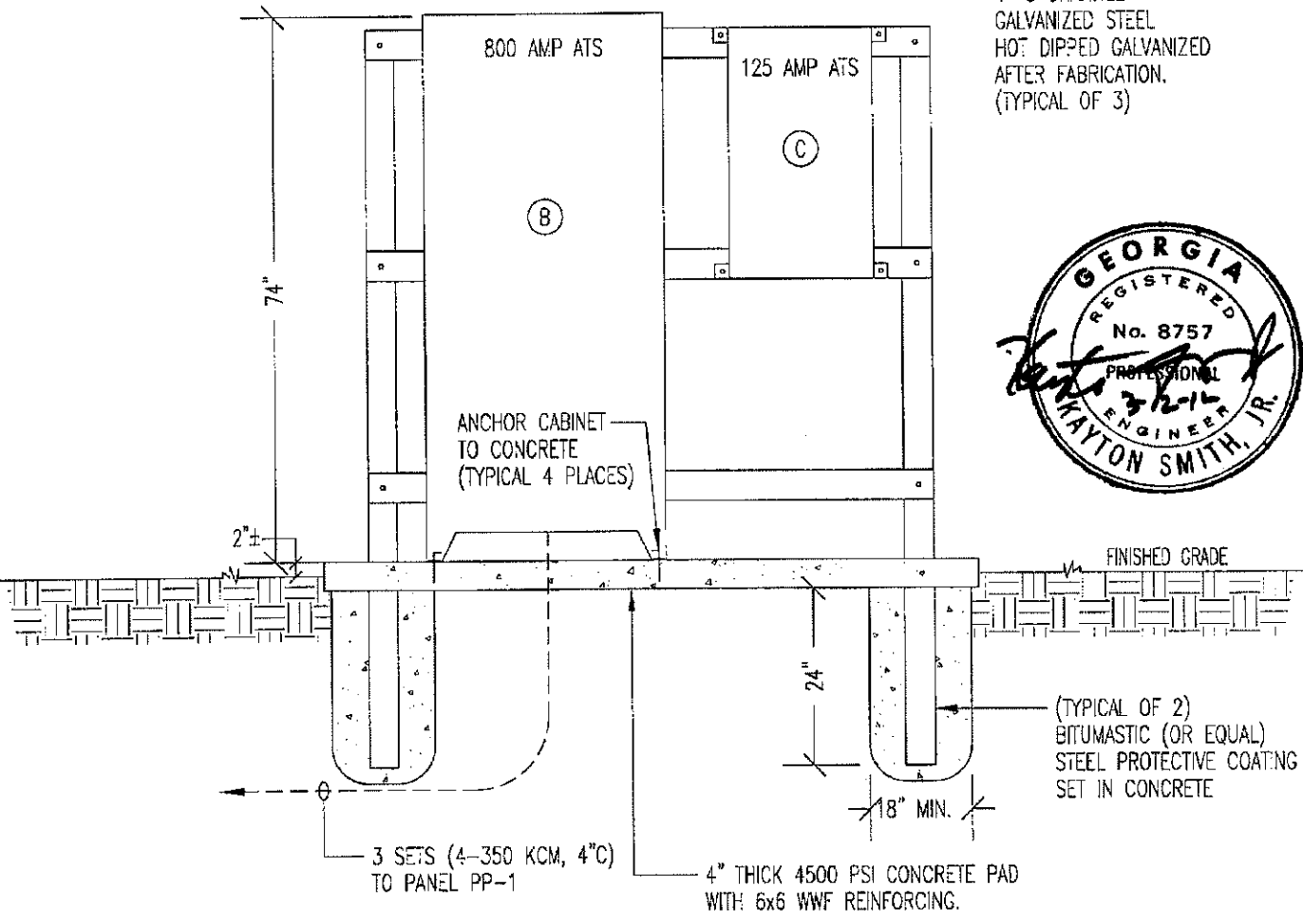
BOLT/ NUT SET AT EACH 4" C CHANNEL CONNECTION (TYPICAL 6 PLACES)

PT WOOD BLOCKING FOR EQUIPMENT FASTENING USING THROUGH BOLTS (AS NEEDED)

6" C CHANNEL GALVANIZED STEEL HOT DIPPED GALVANIZED AFTER FABRICATION. (TYPICAL OF 2)

TOP VIEW

4" C CHANNEL GALVANIZED STEEL HOT DIPPED GALVANIZED AFTER FABRICATION. (TYPICAL OF 3)



ELEVATION

B
E2.1

PANEL-ATS EQUIPMENT SUPPORT STRUCTURE ALTERNATE
SCALE: NTS

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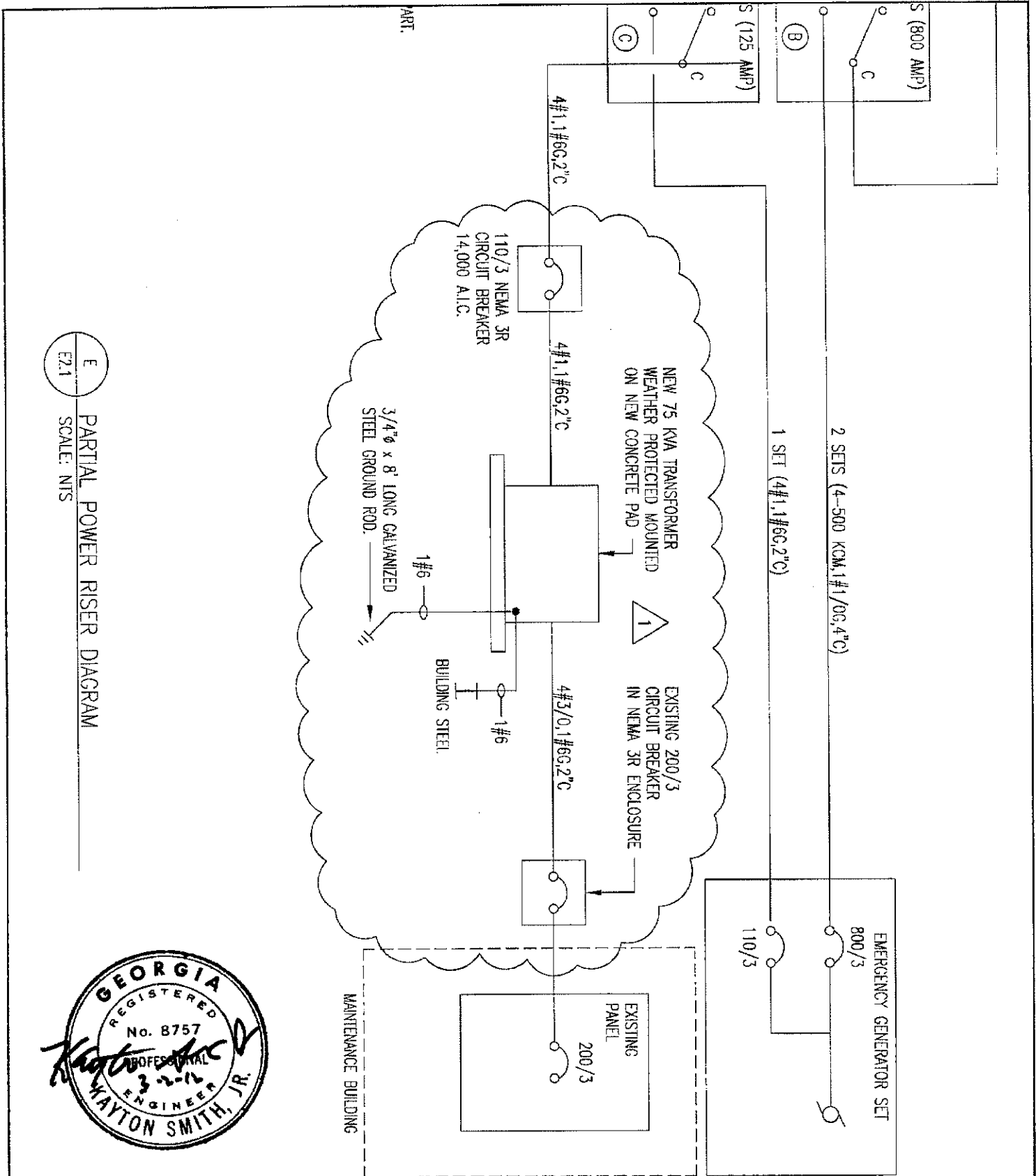
SV SMITH and VANDENBULCK
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PHONE: 912-354-8249 FACSIMILE: 912-352-8429

Project:
CHATHAM COUNTY NARCOTICS DEPARTMENT
68 ROSS ROAD
SAVANNAH, GEORGIA

Drawing Name:
PANEL-ATS EQUIPMENT STRUCTURE ALTERNATE
ELECTRICAL SERVICE REVISION

DRAWING NO.
SK
E2.1-2



E
E2.1

PARTIAL POWER RISER DIAGRAM
SCALE: NTS



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68 ROSS ROAD
SAVANNAH, GEORGIA

Drawing Name: MAINTENANCE BUILDING #2
ELECTRICAL SERVICE REVISION

DRAWING NO.
SK
E2.1-3