

REV. NO.	DATE	REMARKS
06/16/19		ISSUED FOR SET
10/01/19		ISSUED FOR PERMIT/ISSUE

INSTRUCTIONAL UNITS	REGULAR CLASSROOMS	PAIRED FLEX AREAS	MUSICAL EDUCATION	MEDIA CENTER	ART	TOTAL
45	2	1	1	1	51	

BUILDING AREA	LEVEL 01	LEVEL 02	COVERED AREAS (LE CANOPIES)	TOTAL
71,452 SF	108,337 SF	5,180 SF	72,669 SF	

PROJECT SUMMARY	NAME	GRADE	PREK	THRU	5TH	G.D.C.E. #	TO BE ASSIGNED
J.H. HOUSE ELEMENTARY SCHOOL	GRANITE	PREK	THRU	5TH			

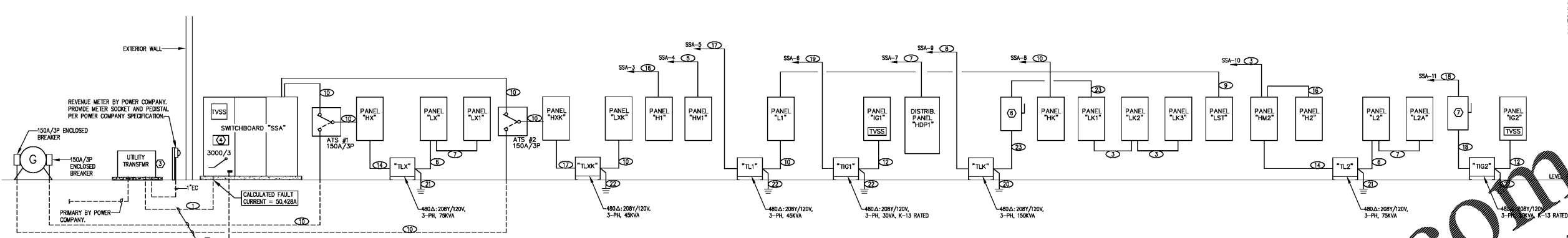
ISSUED FOR CONSTRUCTION

One Piedmont Center, Suite 303 3565 Piedmont Road Atlanta, Georgia 30305

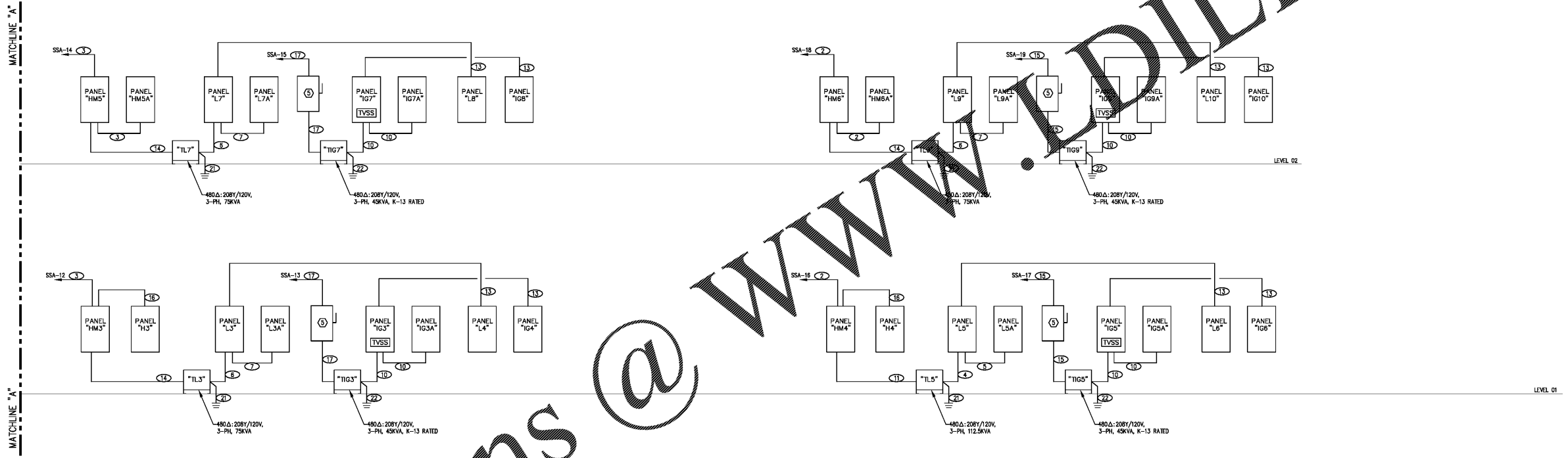
Smallwood, Reynolds, Stewart & Associates, Inc. Architects

ELECTRICAL RISER DIAGRAM
 J.H. HOUSE ELEMENTARY SCHOOL
 3100 Zingara Road NE, Conyers, GA 30012

DATE: 10-01-2019
 JOB NO: 218036.00
 SHEET NO: E6-01



1 ELECTRICAL RISER DIAGRAM
 E6-01 NO SCALE



- NOTES:**
- CONTRACTOR SHALL OBTAIN A LIST OF ALL NUMBERS FROM THE OWNER, AND INCLUDE BOTH ROOM NUMBERS AND LOADS SERVING IN THE PANEL SCHEDULE FOR EACH CIRCUIT (E - RECEPTACLES, ROOM 2.113).
 - CONTRACTOR SHALL HIRE AN INDEPENDENT TESTING COMPANY TO PERFORM A GROUND-FAULT PERFORMANCE TEST ON SWITCHBOARD "SSA". RESULTS OF THE TEST SHALL BE MADE AVAILABLE TO THE CHIEF ELECTRICAL INSPECTOR AND THE ELECTRICAL PLANS EXAMINER PRIOR TO THE FINAL ELECTRICAL INSPECTION.
 - CONDUIT SIZES INDICATED IN THE FEEDER LEGEND ARE THE MINIMUM SIZES REQUIRED. CONTRACTOR MAY INCREASE CONDUIT SIZES IN ORDER TO FACILITATE LONG PULLS, OR TO ACCOMMODATE OTHER FIELD CONDITIONS.
 - ALL COMPONENTS SHALL BE INSTALLED TO RESIST THE SEISMIC DESIGN FORCES SPECIFIED PER SBC SECTION 1621 UNLESS EXEMPT AS LISTED IN SBC SECTION 1621.1.1. COMPLIANCE FOR THIS PROJECT SHALL BE BASED UPON THE REQUIREMENTS OF SEISMIC USE GROUP III (SBC TABLE 1604.5), SEISMIC CATEGORY C (SBC SECTION 1616.3).
 - ALL COMPONENTS SHALL BE ARRANGED AND INSTALLED TO ENSURE THAT THE FAILURE OF ANY COMPONENT DURING SEISMIC DESIGN CONDITIONS SHALL NOT AFFECT THE OPERATION OF ANY OTHER ESSENTIAL COMPONENT. ESSENTIAL ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS INCLUDE COMPONENTS FOR STRUCTURES CLASSIFIED AS SEISMIC USE GROUP III (SBC TABLE 1604.5) OR COMPONENTS WITH AN ASSIGNED IMPORTANCE FACTOR (I_p) GREATER THAN 1.0 PER SBC SECTION 1621.1.4 (SBC SECTION 1621.1.1).
 - THE SECONDARY OVERCURRENT PROTECTION FOR ALL TRANSFORMERS SHALL BE WITHIN 10'-0" OF THE SECONDARY TAP OF THE TRANSFORMER PER NEC 450.
 - ALL SWITCHBOARDS, DISTRIBUTION PANELS, AND PANELBOARDS SHALL BE MARKED TO INDICATE WHERE THE POWER SUPPLY SOURCE IS.

- KEYNOTES:**
- RUN (1) #3/0 GROUND TO THREE 3/4" x 10' COPPER/ALUMINUM GROUND RODS SPACED TWELVE FEET APART ON THE EXTERIOR OF THE BUILDING. (1) #3/0 GROUND TO MAIN METAL DOMESTIC WATER LINE, AND (1) #3/0 TO BUILDING STEEL. GROUNDING CONDUCTOR SHALL BE BURIED 24" (MIN.) BELOW GRADE. GROUND RODS SHALL BE DRIVEN SO THAT THEIR TOPS ARE 24" (MIN.) BELOW GRADE. PROVIDE A CONCRETE-ENCASED ELECTRODE CONSISTING OF 20 FEET OF #4 BARE COPPER CONDUCTOR ENCASED IN A FOOTING OR FOUNDATION THAT IS IN DIRECT CONTACT WITH THE EARTH. BOND THE ELECTRODE TO THE SWITCHBOARD GROUND BUS.
 - THE NORMAL AND EMERGENCY SERVICE LATERALS SHALL BE ENCASED IN A 3200PSI RED DYE CONCRETE ENVELOPE. CONCRETE SHALL PROVIDE 3" (MIN) COVER ON ALL SIDES. PROVIDE #4 REBAR TIES ON 4 FOOT CENTERS VERTICALLY AND HORIZONTALLY (TOP, BOTTOM, AND BOTH SIDES). PROVIDE CONDUIT SPACERS ON 4 FOOT CENTERS AT ALTERNATE 2 FOOT INTERVALS WITH REBAR.
 - PROVIDE PAD FOR UTILITY TRANSFORMER PER POWER COMPANY'S SPECIFICATION.
 - PROVIDE A PLAQUE ON THE SWITCHBOARD READING "THE CALCULATED FAULT CURRENT AT THE SWITCHBOARD IS 50,428A."
 - 60A/3P/60AF DISCONNECT SWITCH.
 - 400A/3P/400AF DISCONNECT SWITCH.
 - 60A/3P/40AF DISCONNECT SWITCH.

- FEEDER LEGEND:**
- (1) 8 SETS OF 4#500MCM - 3 1/2" EACH
 - (2) 2 SETS OF 4#500MCM & 1#10 - 3" EACH
 - (3) 4#4 & 1#100 - 1 1/4"
 - (4) 4#500MCM & 1#30 - 3 1/2"
 - (5) 4#500MCM & 1#1/00 - 3"
 - (6) 4#500MCM & 1#40 - 3"
 - (7) 4#4/0 & 1#20 - 2 1/2"
 - (8) 4#4/0 & 1#60 - 2 1/2"
 - (9) 3#3/0 & 1#60 - 2"
 - (10) 4#2/0 & 1#60 - 2"
 - (11) 4#1/0 & 1#60 - 2"
 - (12) 3#1/0 & 1#60 - 1 1/2"
 - (13) 4#1 & 1#60 - 1 1/2"
 - (14) 4#1 & 1#60 - 1 1/2"
 - (15) 3#1 & 1#60 - 1 1/2"
 - (16) 3#2 & 1#60 - 1 1/4"
 - (17) 4#4 & 1#100 - 1 1/4"
 - (18) 3#6 & 1#100 - 1"
 - (19) 3#6 & 1#100 - 3/4"
 - (20) 1#1/00 & 3/4"
 - (21) 1#20 - 1/2"
 - (22) 1#60 - 1/2"
 - (23) 4#500MCM & 1#1/00 - 3 1/2"

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