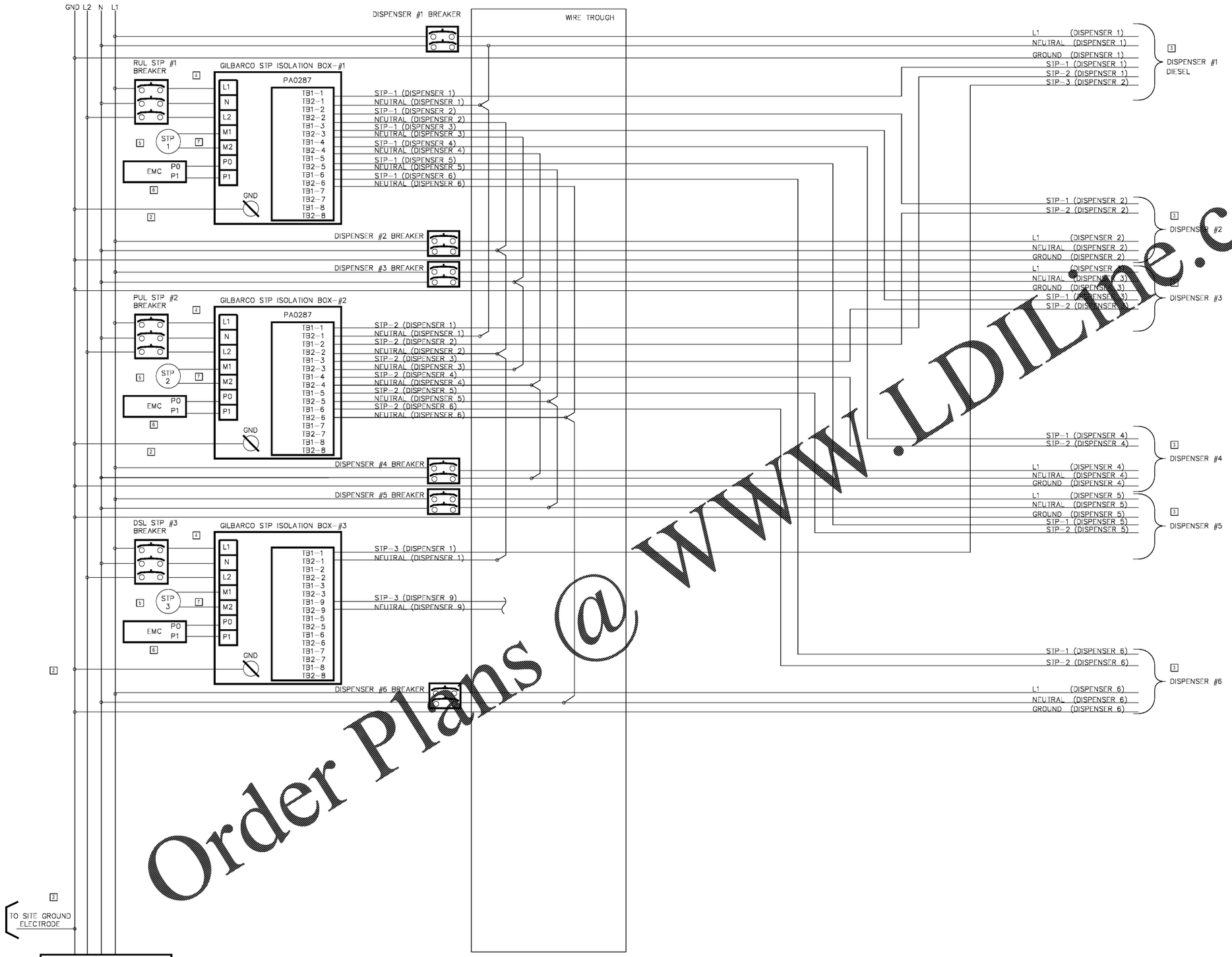

1 WIRING DIAGRAM FOR ISOLATION RELAY BOX
NTS

GENERAL NOTES

1. INSTALL POWER BREAKERS TO EACH CIRCUIT LEADING TO THE DISPENSING UNIT AND STP. THEY MUST BE CAPABLE OF SIMULTANEOUSLY DISCONNECTING HOT AND NEUTRAL CONDUCTORS.
2. INSTALL CONDUIT PER NEC FOR HAZARDOUS LOCATIONS.
3. WIRES -ALL WIRES ARE 14AWG (STANDARD) UNLESS OTHERWISE NOTED. PUMP / DISP. GROUND - WIRE IS 12 AWG (STANDARD).

   POWER LOADING AND DISTANCE RUN MAY REQUIRE LARGER WIRE SIZE.

KEY NOTES

1. INSTALL A SINGLE EMERGENCY POWER CUTOFF CONTROL TO REMOVE AC POWER FROM SITE DISPENSING EQUIPMENT.
   (THE CONTROL IS AN ADDITION SAFETY FEATURE AND NOT A SUBSTITUTE FOR NEC/NFPA30 CIRCUIT BREAKER REQUIREMENTS).

   * LABEL THE EMERGENCY POWER CUTOFF SWITCH AND INSTRUCT OWNER TO KEEP AREA CLEAR OF OBSTACLES.
2. CONNECT INSULATED GROUNDING CONDUCTOR FROM THE DISPENSER POWER PANEL TO THE SITE GROUNDING ELECTRODE. SIZE PER NEC.
3. REFER TO INSTALLATION ADDENDA FOR SPECIFIC PRODUCT FIELD WIRING CONNECTIONS. CAP ALL UNUSED WIRES. LOCAL AND NEC MAY APPLY.
4. STP ISOLATION RELAY BOXES ARE MANDATED BY THE NEC (ARTICLE 514.13 - PROVISIONS FOR MAINTENANCE AND SERVICE OF DISPENSING EQUIPMENT) AND ARE REQUIRED TO:
   A. ALLOW SERVICE OF ONE UNIT SAFELY WITHOUT REMOVING POWER FROM ALL DISPENSING EQUIPMENT.
   B. PREVENT DAMAGE TO EQUIPMENT FROM CROSS-PHASING.

   DAMAGE CAUSED BY CROSS-PHASING IS NOT COVERED BY WARRANTY

   GILBARCO STP ISOLATION BOX PA0287 IS NOT AVAILABLE FOR 220/230/240VAC UNITS. (THIS IS A 7-ELEVEN SUPPLIED ITEM.)
5. FOR STPs GREATER THAN 1-1/2HP (SINGLE OR THREE PHASE) CONNECT TO MOTOR CONTACTOR COIL OF SEPARATE STP RELAY BOX.
6. L1 FEEDS STP BOX CONTACTOR COIL. THEREFORE L1 & EMC MUST BE ON THE SAME PHASE OR DAMAGE TO EMC WILL RESULT. WHEN EMC IS NOT USED, JUMPER STP BOX TERMINALS P0 AND P1 TOGETHER TO COMPLETE THIS CIRCUIT.
7. V.F.C. or STP C.B.S.

Rev. #	Date	Description
		Proto 11-05-18

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Scale:	AS NOTED
Date:	05/06/19
Drawn By:	RMK
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SHEET:
G11.0

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PRINTED BY: RKENTZ
DRAWING NAME: 38777 - G11.0 ISOLATION RELAY BOX DETAILING PRINT DATE: Jan 04, 2019 - 5:42pm