



**POWER INTEGRITY**

1. THE POWER INTEGRITY CORPORATION DATA DISTRIBUTION SYSTEM ALL-IN-ONE DISCONNECT SOLUTION UNIT (DDS-AJ#4) INCORPORATES DISPENSER DATA, CARD READER, INTERCOM SERVICE DISCONNECT AND EMERGENCY SHUTDOWN. (# = NUMBER OF DISPENSERS).
2. THE DDS SYSTEM SHALL BE INSTALLED TO COMPLY WITH NEC 514.11, NEC 514.13, NFPA 70A AND NFPA 70.
3. DISCONNECT DEVICES SHALL BE CONNECTED WITH POWER INTEGRITY CABLES.
4. MAIN UNIT SHALL ONLY BE CONNECTED TO POWER OUTLET CONNECTED TO EMERGENCY STOP CIRCUIT.
5. REFER TO SHEET FE-7.

**TYPICAL OF ALL DISPENSERS:**  
 INTERCOM LOW VOLTAGE DISCONNECT IN BUILDING  
 TO WAYNE FUSION CONTROLLER  
 DISPENSER WIRING DISCONNECT SOLUTION (POWER/COMM.) IN BUILDING

DISPENSER WIRING TABLE				
CONDUIT	WIRE	TYPE/SIZE/QUANTITY		
3/4"	INTERCOM	(1) 4-WIRE 18 GAUGE SHIELDED CABLE, BELDEN#89418 OR EQUIVALENT		
1"	POS INTERFACE	(2) 2-WIRE 18 GAUGE TWISTED PAIR, 10-12 TWISTS PER FOOT, NO SHIELD, BELDEN#88780 OR EQUIVALENT		
	POWER	(3) #12 AWG		
	PRODUCT REQUEST	TYPE/SIZE/QUANTITY	DISPENSER J-BOX CONNECTION	COLOR
	STP#1 (REGULAR)	(1) #12 AWG	J-BOX TERMINAL #4	WHITE/BROWN
	STP#3 (PREMIUM)	(1) #12 AWG	J-BOX TERMINAL #3	WHITE/RED
STP#4 (E-85 OR E-0)	(1) #12 AWG	J-BOX TERMINAL #6	WHITE/BLUE	
STP#5 (DIESEL)	(1) #12 AWG	J-BOX TERMINAL #5	WHITE/BLACK	
3/4"	VEEDER-ROOT	(1) 2-WIRE 18 GAUGE TWISTED PAIR SHIELDED CABLE, BELDEN#88780 OR CAROL#C2534 OR EQUIVALENT		

**SPECIAL NOTES FOR DISPENSER INSTALLATIONS**

**WAYNE OVATION / HELIX**  
 ICR or CAT  
 JDS  
 REFER TO DRIVER WAYNE UDS INSTALLATION AND TROUBLE SHOOTING GUIDE (FOR AUTO GAS INSTALLATIONS ONLY)

**NOTES:**

1. CONTRACTOR TO REFER TO MANUFACTURERS DOCUMENTATION FOR ADDITIONAL WIRING REQUIREMENTS AND TERMINAL NUMBERING OF ALL THE EQUIPMENT COMPONENTS SHOWN ON THIS DRAWING.
2. CONTRACTOR TO REFER TO OTHER ELECTRICAL DRAWINGS FOR ADDITIONAL WIRING DIAGRAMS AND MATERIAL LIST.
3. CONTRACTOR TO VERIFY WIRING REQUIREMENTS AND CONNECTION DETAILS OF THE POINT OF SALE (POS) EQUIPMENT AND INTERCOM SYSTEM WITH THE SITE ENGINEER.
4. EACH CONDUCTOR COMING FROM A GIVEN DISPENSER MUST BE COLOR CODED TO DISCRIMINATE PURPOSE. THE SAME COLOR CODING IS TO BE CONSISTENTLY USED ON ALL DISPENSERS ON A SITE.
5. DISPENSER NUMBERING MAY VARY FROM THIS SCHEME. REFER TO DRAWING F-5 FOR DESIRED NUMBERING.

REFER TO SHEET FE-6 'TURBINE PUMP INSTALLATION REFERENCE' FOR CONFIGURATION SWITCH POSITION AND NOTES.

**FE-2**  
 6 MPD  
 WAYNE  
 OCTOBER 2019  
 STANDARDS



**PUMP AND DISPENSER CONTROL WIRING**  
 SCALE: N/A  
 DATE: JUNE, 2020  
 FILE NAME: 15-Mag800/01\_FE-2  
 No. | REVISION  
 NWC OAK DRIVE & HIGHWAY 1  
 LEXINGTON SOUTH CAROLINA

**Galloway**  
 6162 S. Wilcox Drive, Suite 320  
 Charlotte, NC 28211  
 303.770.9884  
 GallowayUS.com



**COPYRIGHT**  
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.

**MURPHY EXPRESS**  
 MURPHY OIL U.S.A. INC.  
 200 EAST PEACH STREET  
 EL DORADO, ARKANSAS 71730

P:\Murphy Oil Tank & Piping\SC - Lexington EXP (8903) (Rev 1) - Mac80075\Fuel\15-Mag800\01\_FE-2.dwg - Eric Farnham - 04/20/20 1:44 AM

1"=60'