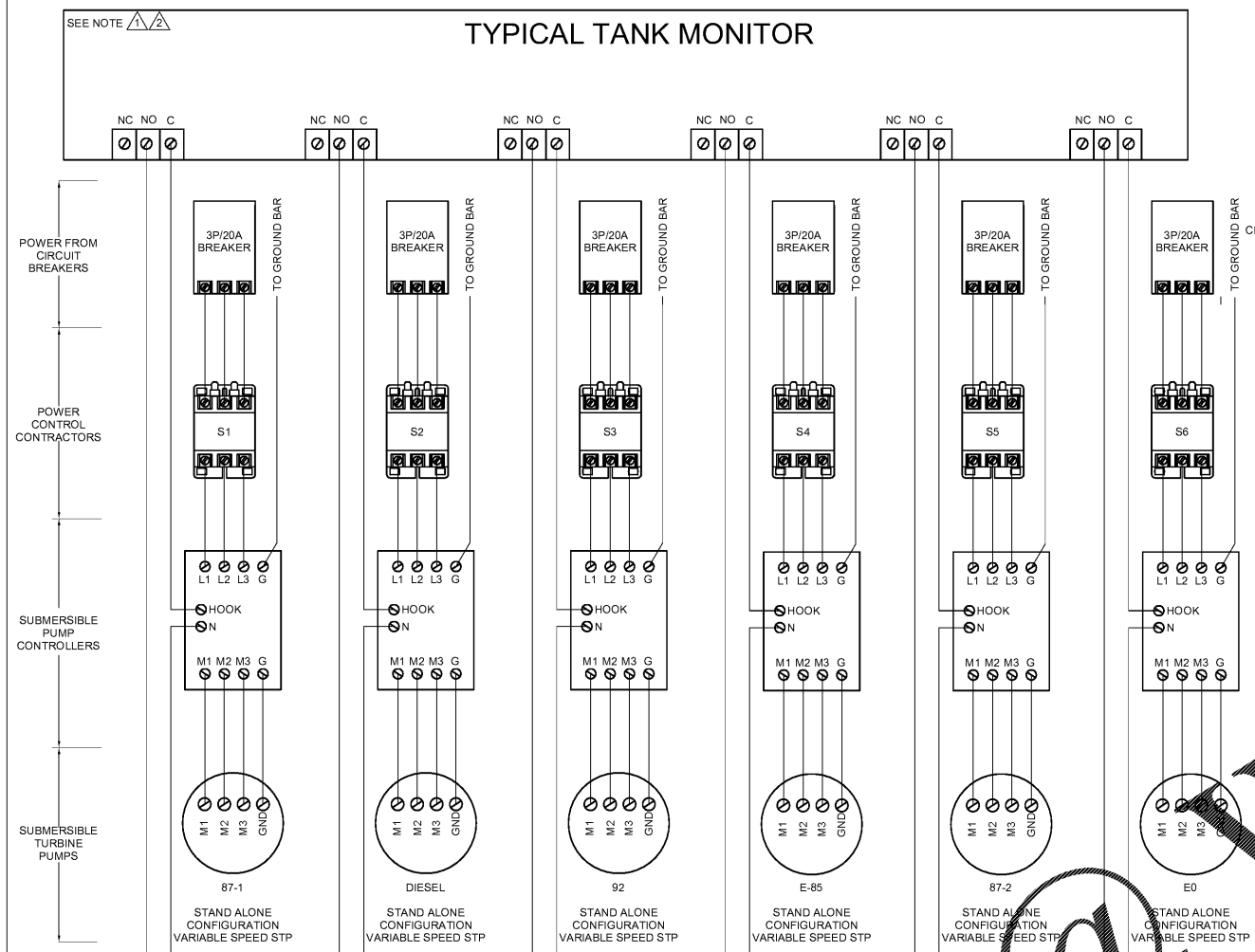


PRESSURIZED LINE LEAK DETECTION

VARIABLE SPEED "SMART" CONTROLLERS

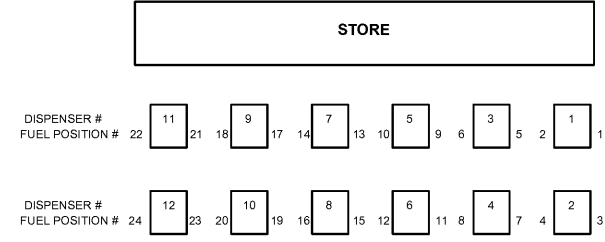
**TYPICAL TANK MONITOR**



GENERAL NOTES:  
 1 REFER TO TANK MONITOR MANUFACTURER ALL WIRING CONNECTIONS AND OTHER SPECIFICATIONS REQUIRED BY MANUFACTURER.  
 2 THE TANK MONITOR IS TYPICALLY MOUNTED INSIDE THE IPaCS PDC ENCLOSURE ON THE SERVICE WALL.  
 3 THE TERMINAL STRIP SHOWN IS FOR THE STANDARD DM-EX DESIGN. THE STANDARD DM-EX DESIGN MAY BE CUSTOMIZED FOR ADDITIONAL PUMP DEVICES, THERE BY ALTERING THE STANDARD DESIGN SHOWN. PLEASE REFER TO ALL INFORMATION TO DETERMINE THE NUMBER OF DEVICES FOR EACH JOB LOCATION.

2 TANK MONITOR/LINE PRESSURE OPTION WITH VARIABLE SPEED "SMART" CONTROLLER  
 N.T.S.

**DISPENSER NUMBERING STANDARD**



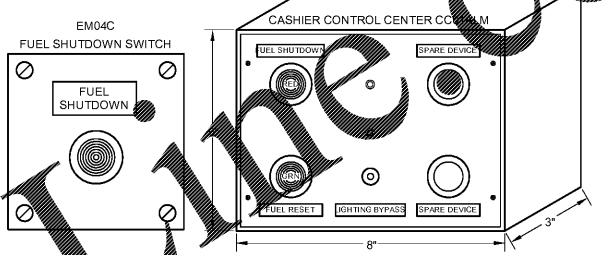
**DISPENSER WIRING STANDARD TABLE**

IPaCS Terminal Strip Label	Field Wire Color Code (Proposed)	Description
H	Black	Hot Wire To MPD (120 Volt)
N	White	Neutral Wire To MPD
HL	Blue	Power to LVED
1	Yellow	Pump #1 Authorization Signal
2	Brown	Pump #2 Authorization Signal
3	Orange	Pump #3 Authorization Signal
4	Red	Pump #4 Authorization Signal
5	Gray	Pump #5 Authorization Signal
6	Purple	Pump #6 Authorization Signal
Ground Bar	Green	Ground Wire For

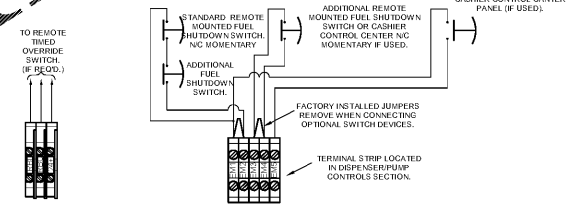
**SUBMERSIBLE PUMP NUMBERING STANDARD**

Pump Number	Service
Pump #1	"Unleaded #1" Submersible Pump
Pump #2	"Diesel" Submersible Pump
Pump #3	"Premium or 92" Submersible Pump
Pump #4	"E-85" Submersible Pump
Pump #5	"Unleaded" Submersible Pump
Pump #6	"E0" Submersible Pump

3 DISPENSER & PUMP NUMBERING & WIRING STANDARD  
 N.T.S.



**STANDARD WIRING DETAIL**



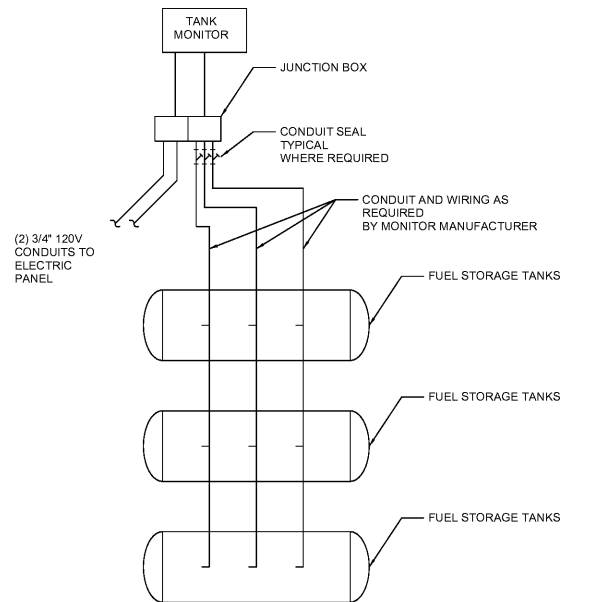
**NOTES:**

- THE FUEL SHUTDOWN FUNCTION DISCONNECTS POWER TO ALL PUMPS AND ALL DISPENSERS. (BOTH HOT AND NEUTRAL CONDUCTORS).
- ADDITIONAL REMOTE SHUTDOWNS ARE AVAILABLE (I.E. OUTDOOR AND CASHIER LOCATIONS).
- FUEL SHUTDOWN CONTRACTORS FURNISHED BY OWNER & INSTALLED BY E.C.
- ALL FIELD WIRING TERMINALS MUST BE WIRED WITH A MINIMUM INSULATION RATING OF 60°C IF CIRCUIT IS RATED LESS THAN 100 AMPS OR A MINIMUM INSULATION RATING OF 75°C IF CIRCUIT IS RATED OVER 100 AMPS. FIELD WIRING INDICATED BY A DASHED LINE.
- MAIN AND BRANCH CIRCUITS PROTECTED BY OTHERS.

4 CASHIER CONTROL CENTER WIRING  
 N.T.S.

DISPENSER/PUMP CONTROLS TERMINAL STRIP CONNECTION CHART

Terminal	Description
N	NEUTRAL CONNECTION TO SUBMERSIBLE PUMP CONTROLLERS
G	GROUND CONNECTION
12V	120V LINE PRESSURE POWER (OFF DURING EMERGENCY STOP)
1A	PRODUCT #1 PUMP AUTHORIZATION FROM DISPENSER
1B	PRODUCT #1 PUMP CONTRACTOR CONTROL POWER (IN POWERBOX PDC)
2A	PRODUCT #2 PUMP AUTHORIZATION FROM DISPENSER
2B	PRODUCT #2 PUMP CONTRACTOR CONTROL POWER (IN POWERBOX PDC)
3A	PRODUCT #3 PUMP AUTHORIZATION FROM DISPENSER
3B	PRODUCT #3 PUMP CONTRACTOR CONTROL POWER (IN POWERBOX PDC)
4A	PRODUCT #4 PUMP AUTHORIZATION FROM DISPENSER
4B	PRODUCT #4 PUMP CONTRACTOR CONTROL POWER (IN POWERBOX PDC)
5A	PRODUCT #5 PUMP AUTHORIZATION FROM DISPENSER
5B	PRODUCT #5 PUMP CONTRACTOR CONTROL POWER (IN POWERBOX PDC)
6A	PRODUCT #6 PUMP AUTHORIZATION FROM DISPENSER
6B	PRODUCT #6 PUMP CONTRACTOR CONTROL POWER (IN POWERBOX PDC)



1 TANK MONITORING SCHEMATIC DIAGRAM  
 N.T.S.

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