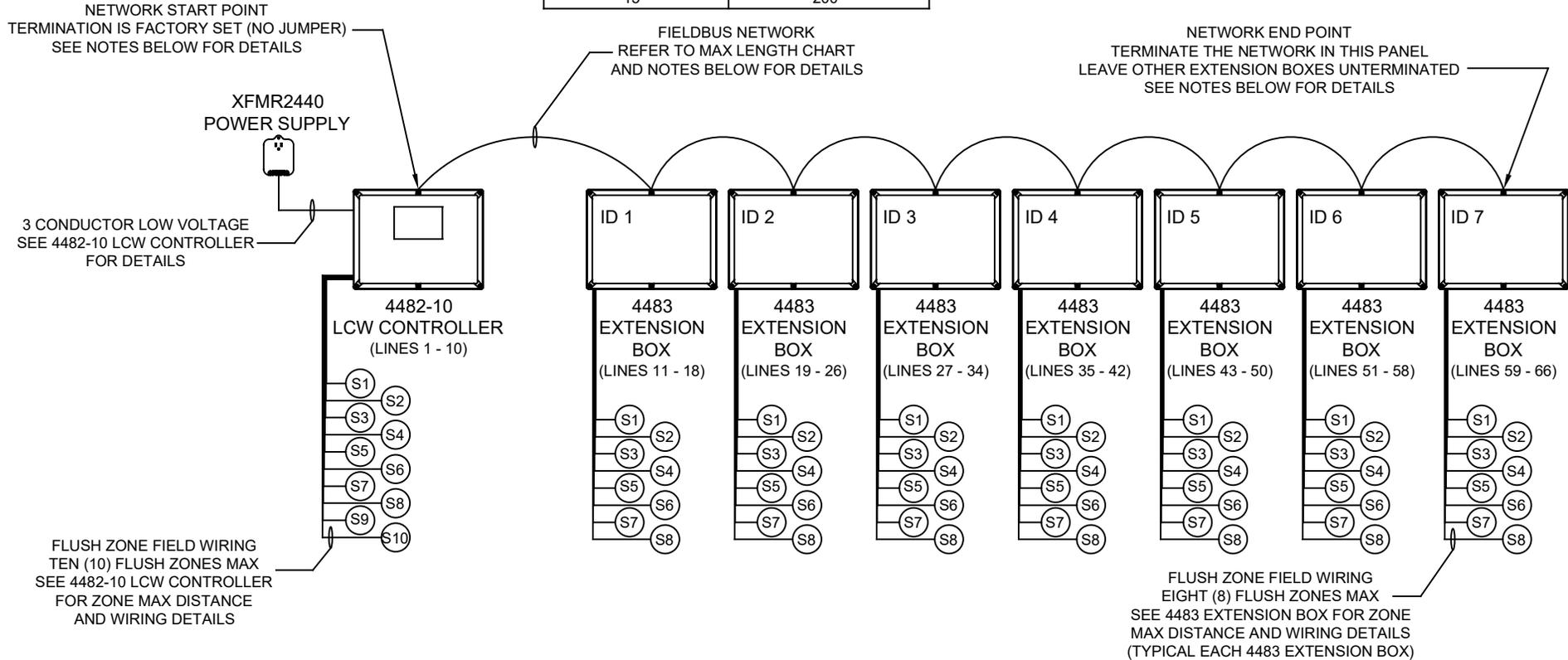


DIGITAL DOCUMENTATION	
4482-10 LCW CONTROLLER	4483 EXTENSION BOX
	

NETWORK FIELDBUS MAXIMUM LENGTH CHART	
NETWORK VIN / GND POWER CONDUCTOR WIRE GAUGE	MAXIMUM NETWORK LENGTH (FEET)
18	75
16	150
15	200



- NOTES**
- EACH 4483 EXTENSION BOX RECEIVES POWER AND COMMUNICATIONS FROM THE 4482-10 LCW CONTROLLER THROUGH THE NETWORK FIELDBUS. A MAXIMUM OF SEVEN (7) 4483 EXTENSION BOXES PER NETWORK, INTERCONNECTED IN A "DAISY CHAIN" CONFIGURATION. STAR OR "T" BRANCHES ARE NOT ALLOWED. THE NETWORK MUST BEGIN AT THE 4482-10 LCW CONTROLLER AND END AT THE LAST 4483 EXTENSION BOX WITH ALL OTHER NODES WIRED "IN-OUT" BETWEEN.
  - EACH 4483 EXTENSION BOX ON THE NETWORK MUST BE ASSIGNED A UNIQUE ID WITH A CORRESPONDING NETWORK ADDRESS. SEE 4483 EXTENSION BOX FOR DETAILS.
  - NETWORK FIELDBUS TERMINATION IS REQUIRED AT THE 4483 EXTENSION BOX LOCATED AT THE END OF THE NETWORK. ALL OTHER NODES SHOULD BE UNTERMINATED. REFER TO THE 4483 EXTENSION BOX FOR INFORMATION ON SETTING THE NETWORK TERMINATION JUMPER.
  - NETWORK FIELDBUS LENGTH DEPENDS UPON POWER CONDUCTOR SIZE. MINIMUM 18AWG FOR POWER, MINIMUM 20AWG FOR TWISTED PAIR COMMUNICATIONS. SEE CHART ABOVE FOR MAX NETWORK LENGTH. REFERENCE BELDEN 7895A (18/20AWG), 7896A (16/18AWG), 7897A (15/18AWG) OR EQUIVALENT FOR CABLING FOR HARSH ENVIRONMENTS. REFERENCE BELDEN 127895A (18/20AWG), 127896A (16/18AWG), 127897A (15/18AWG) OR EQUIVALENT FOR ARMORED CABLING FOR HARSH RODENT RESISTANT ENVIRONMENTS.
  - TOTAL NETWORK LENGTHS LESS THAN 6 FEET MAY USE 4 #18AWG INDIVIDUAL CONDUCTORS IN LIEU OF THE TWISTED/SHIELDED NETWORK CABLE SPECIFIED.
  - FLUSH ZONE SOLENOID FIELD WIRING MAX DISTANCE VARIES BETWEEN THE 4482-10 LCW CONTROLLER AND THE 4483 EXTENSION BOX. REFER TO EACH COMPONENT FOR SPECIFIC FLUSH ZONE MAXIMUM FIELD WIRE LENGTH CHARTS.

MAT'L: SEE DETAILS

FINISH or TREATMENT: SEE DETAILS

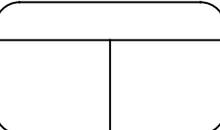
WEIGHT: SCALE:

DRAWN BY: C. WILLIS

SOURCE:

DATE: 8/25/2022

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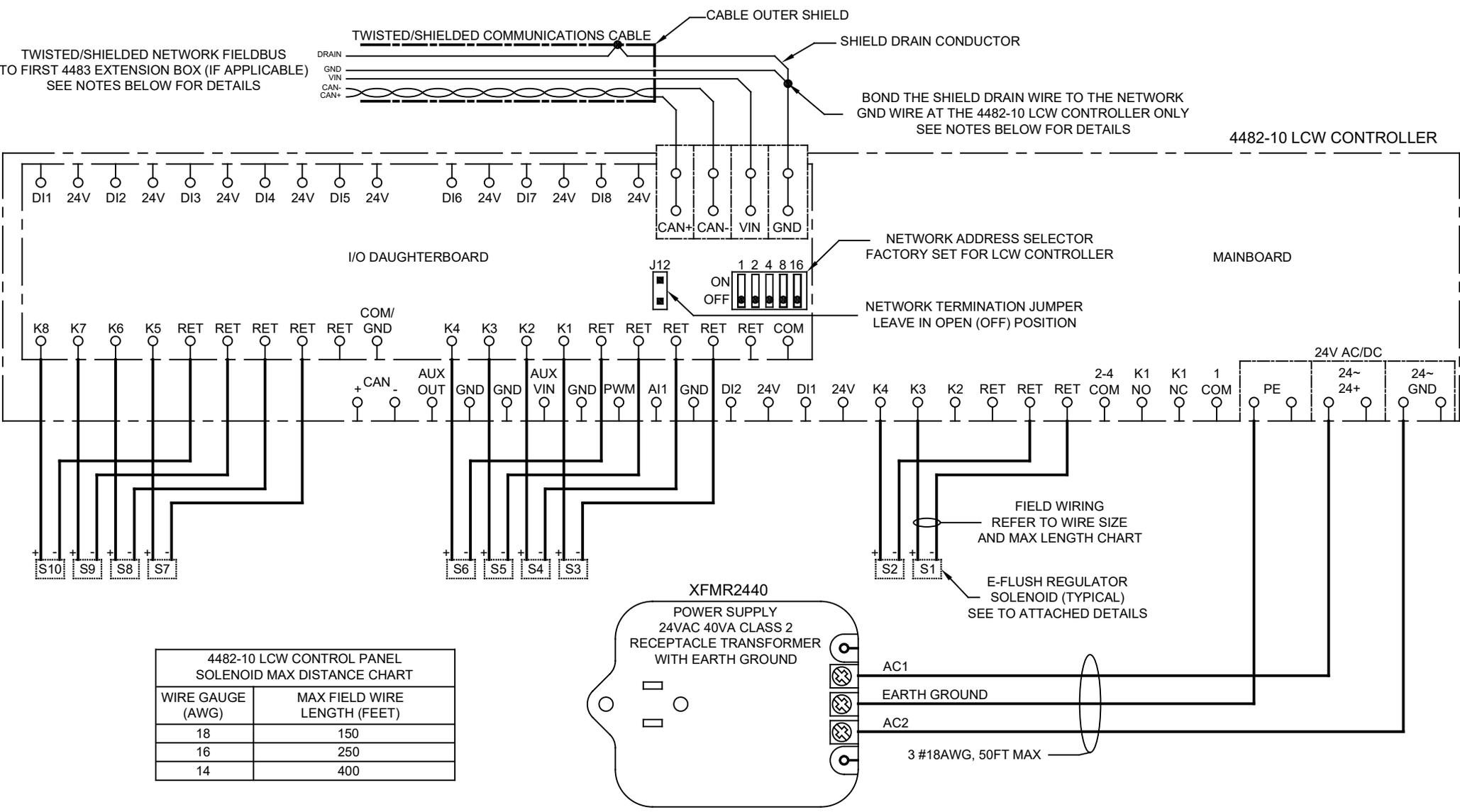


**LUBING**  
LUBING SYSTEMS, LP  
135 CORPORATE DRIVE SW  
CLEVELAND, TN 37311 USA  
*A Tradition of Innovation.*

DWG. NO. 20220712-E1

DESCRIPTION: EFLUSH NETWORK DIAGRAM

PART NO.



**4482-10 LCW CONTROL PANEL  
SOLENOID MAX DISTANCE CHART**

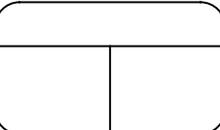
WIRE GAUGE (AWG)	MAX FIELD WIRE LENGTH (FEET)
18	150
16	250
14	400

- NOTES**
- 4482-10 KIT INCLUDES THE 4482-10 LCW CONTROLLER AND THE XFMR2440 POWER SUPPLY.
  - POWER SUPPLY AC OUTPUT MAY BE WIRED TO EITHER 24VAC INPUT TERMINAL ON THE MAINBOARD.
  - NETWORK FIELDBUS REQUIRED WHEN USING 4483 EXTENSION BOXES. MAXIMUM OF SEVEN (7) EXTENSION BOXES. SEE ATTACHED NETWORK OVERVIEW DIAGRAM FOR DETAILS.
  - NETWORK FIELDBUS SHIELD DRAIN CONDUCTOR SHOULD BE BONDED TO THE NETWORK FIELDBUS GND CONDUCTOR AT THE 4482-10 LCW CONTROLLER ONLY. SHIELD DRAINS SHOULD BE BONDED TOGETHER BUT LEFT UNTERMINATED AT ALL OTHER PANEL LOCATIONS. REFER TO 4483 EXTENSION BOX FOR DETAILS.
  - FLUSH ZONE SOLENOID FIELD WIRING MAX DISTANCE FOR THE 4482-10 LCW CONTROLLER DIFFERS FROM THE 4483 EXTENSION BOX. ONLY USE THE MAX DISTANCE CHART RATING FOR THE PANEL BEING TERMINATED.

MAT'L: SEE DETAILS  
 FINISH or TREATMENT: SEE DETAILS  
 WEIGHT: SCALE:

DRAWN BY: C. WILLIS  
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 DATE: 8/25/2022

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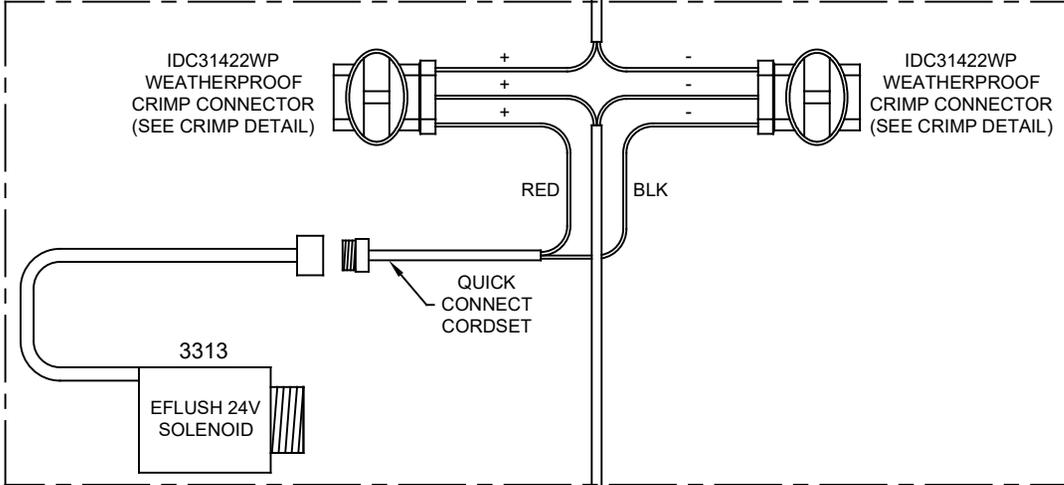


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 135 CORPORATE DRIVE SW  
 CLEVELAND, TN 37311 USA

DWG. NO. 20220712-E1  
 PART NO.  
 DESCRIPTION: 4482-10 LCW CONTROLLER

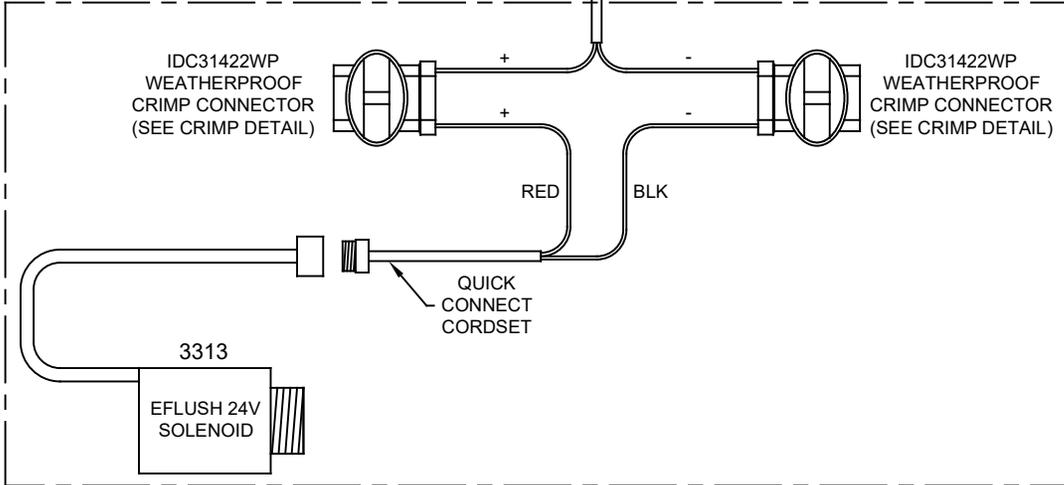
FLUSH ZONE SOLENOID FIELD WIRING  
REFER TO 4482-10 LCW CONTROLLER  
OR REFER TO 4483 EXTENSION BOX  
FOR WIRE SIZE AND MAX LENGTH

3313 KIT EFLUSH SOLENOID KIT



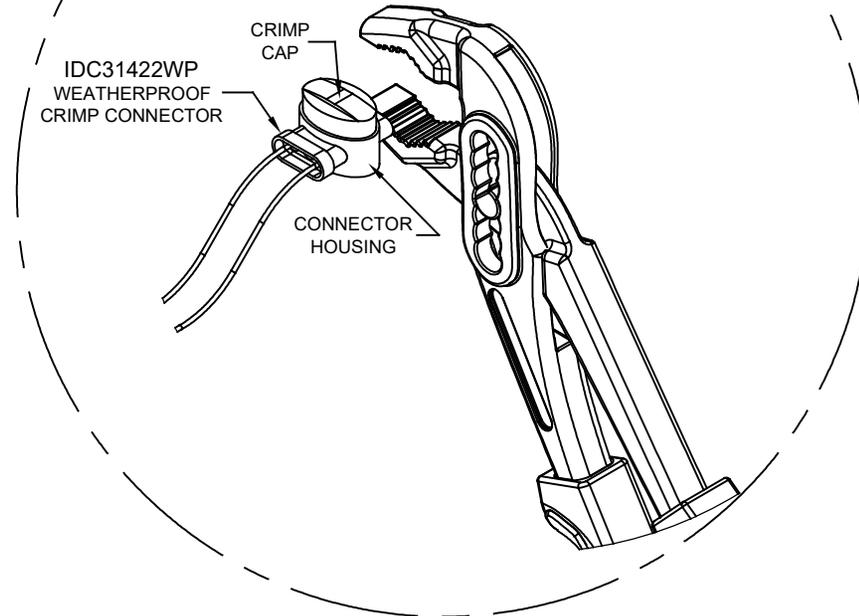
FIELD WIRING  
(OPTIONAL SECOND SOLENOID)  
REFER TO NOTES BELOW

3313 KIT EFLUSH SOLENOID KIT



IDC31422WP CRIMP DETAIL

CLEANLY CUT EACH WIRE END, DO NOT REMOVE INSULATION  
FULLY INSERT EACH WIRE END, ONE WIRE PER POSITION (3 POS)  
COMPRESS CRIMP CAP UNTIL FLUSH WITH CONNECTOR HOUSING  
14AWG - 22AWG STRANDED / SOLID, 3 CONDUCTOR MAX



SECOND SOLENOID KIT  
FOR PARALLEL OPERATION  
OF ADDITIONAL FLUSH ZONE  
TWO (2) SOLENOIDS MAX  
REFER TO NOTES BELOW

NOTES

1. 3313 KIT INCLUDES THE 3313 SOLENOID, QUICK CONNECT CORDSET, AND TWO (2) IDC31422WP CONNECTORS
2. UP TO TWO (2) SOLENOIDS MAY BE WIRED TO EACH CONTROLLER OUTPUT. TOTAL COMBINED FLUSH ZONE FIELD WIRE LENGTH MUST NOT EXCEED RECOMMENDED MAX.
3. FLUSH ZONE SOLENOID FIELD WIRING MAX DISTANCE VARIES BETWEEN THE 4482-10 LCW CONTROLLER AND THE 4483 EXTENSION BOX. REFER TO EACH COMPONENT FOR SPECIFIC FLUSH ZONE MAXIMUM FIELD WIRE LENGTH CHARTS.

MAT'L: SEE DETAILS

DRAWN BY: C. WILLIS  
SOURCE:

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**LUBING**  
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LUBING SYSTEMS, LP  
135 CORPORATE DRIVE SW  
CLEVELAND, TN 37311 USA

DWG. NO.  
20220712-E2

PART NO.

DESCRIPTION:  
3313 EFLUSH SOLENOID

FINISH or TREATMENT: SEE DETAILS

WEIGHT: SCALE: