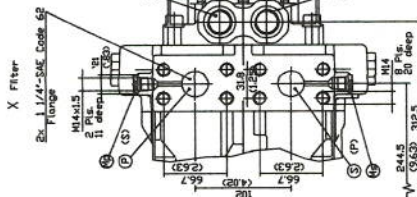
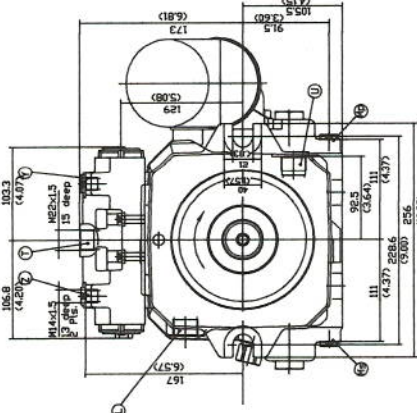
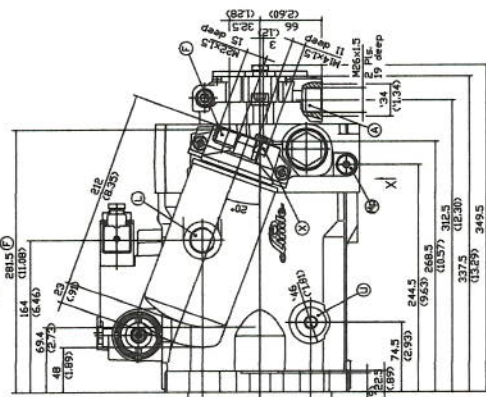
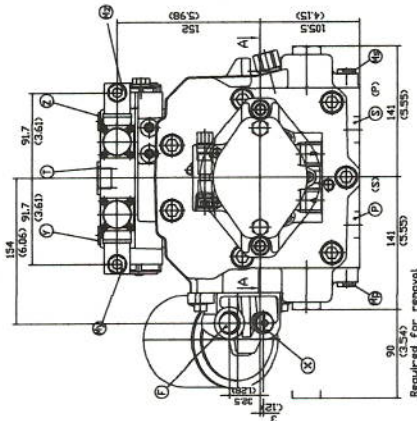
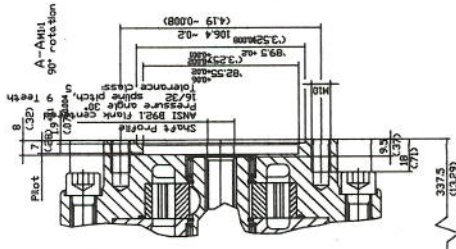
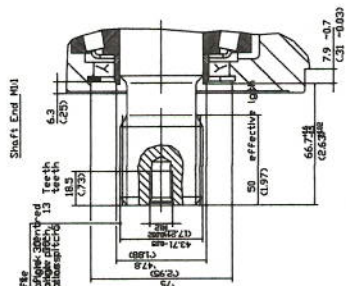
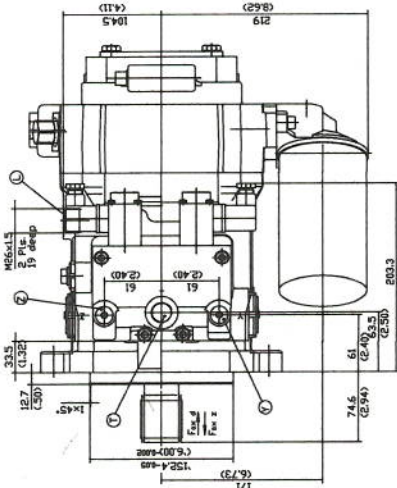
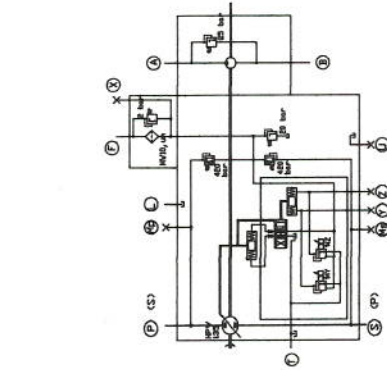


17087

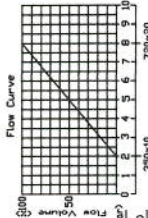
STaHL's

4RSPH  $\frac{1}{AR}$



KEY

- (1) work parts
- (2) gage parts (working parts)
- (3) supply part to filter
- (4) gage part
- (5) case drains
- (6) vent
- (7) tank part (fill and vent)
- (8) tank part-servo pressure
- (9) solenoid-regulating 12V at 100% ED
- (10) current drain - 1 = 13A
- (11) temperature range -113°C
- (12) flange temperature -8°C
- (13) suction part supply pump
- (14) pressure part supply pump
- (15) pressure part supply pump
- (16) Solenoid NY actuated pressure in P
- (17) Solenoid NZ actuated pressure in S



Observe the following installation notes

Fill with oil and vent pump case before start-up.

Max. oil pressure in pump case 1.5 bar (abs.).

Additional instructions available on tech data sheets

Further information to follow on the tech data sheets.



TECH DATA (theoretical values)

| HPV               |                   | -02               |                   | Gear Pump         |                   | PTD               |                   |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Max. Press. (bar) | Max. Press. (psi) | Max. Press. (bar) | Max. Press. (psi) | Max. Press. (bar) | Max. Press. (psi) | Max. Press. (bar) | Max. Press. (psi) |
| 135.5             | 1955              | 135.5             | 1955              | 135.5             | 1955              | 135.5             | 1955              |
| 2600-1            | 3700              | 2600-1            | 3700              | 2600-1            | 3700              | 2600-1            | 3700              |
| 4700              | 6800              | 4700              | 6800              | 4700              | 6800              | 4700              | 6800              |
| 2000              | 2900              | 2000              | 2900              | 2000              | 2900              | 2000              | 2900              |
| 2000              | 2900              | 2000              | 2900              | 2000              | 2900              | 2000              | 2900              |
| 2000              | 2900              | 2000              | 2900              | 2000              | 2900              | 2000              | 2900              |
| 2000              | 2900              | 2000              | 2900              | 2000              | 2900              | 2000              | 2900              |
| 2000              | 2900              | 2000              | 2900              | 2000              | 2900              | 2000              | 2900              |

NOTES

Requirements see technical data sheets

Max. case pressure 1.5 bar (abs.)

Additional instructions available on tech data sheets

Torque is transmitted thru pump shaft without side loading.

SAE 1 1/4" 6800psi case 62

M4x1.5 11 deep (iso 6149)

M2x1.5 15 deep

M4x1.5 11 deep

M2x1.5 19 deep

M2x1.5 14 deep

M4x1.5

M2x1.5 19 deep

M2x1.5 19 deep

M2x1.5 19 deep

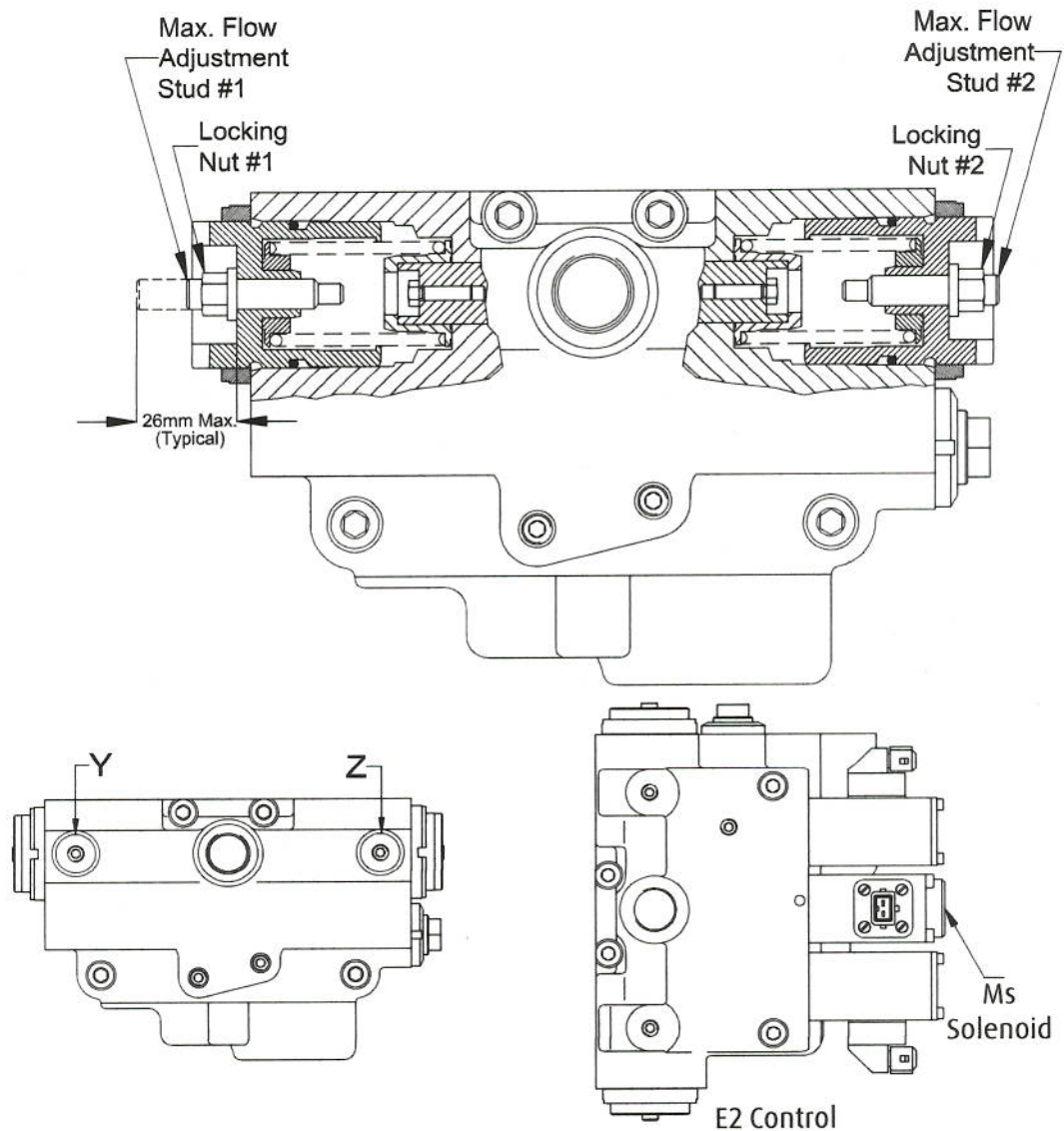
M2x1.5 19 deep

M2x1.5 19 deep

M2x1.5 19 deep

NOTE: This Service Bulletin is valid for HPV-02 pumps with either "H" (Hydraulic Remote) or "E" (Electro-Hydraulic Remote) Controls

NOTE: The drawing below illustrates an "H1" Control, but the information is also valid for "H1P", "E1", "E1P", and "E2" Controls.





## Maximum Flow Adjustment Procedure for HPV-02 Pumps with "H" or "E" Controls

### Tools/Equipment Required:

- 0-600 psi pressure gauge or transducer (optional)
- 13mm offset closed-end wrench
- 4mm Allen wrench

### WARNING:

If performing this procedure on a vehicle, care must be taken. The pump will be put on stroke during this procedure; hence the vehicle must be safely elevated to allow the motor to free-wheel. If this is NOT possible, then the pump work-ports "P" and "S" must be short circuited to each other. Install a properly sized flow-meter in the short circuit line between "P" and "S" to avoid movement of the motor.

### Adjustment Procedure:

1. (Optional) Install the 0-600 psi gauge into gauge port "Y".
2. Set the input speed to high idle.
3. For E2 Controls, make sure that Ms Solenoid is energized.
4. Supply full control pressure to port "Y" or full current to solenoid "My". (Optional) Confirm that the pressure at port "Y" is adequate to put the pump at full displacement.
5. Measure the rotational speed of the motor, the wheel, the gearbox, etc. and calculate if the pump is supplying enough flow. If using a short circuit line, measure the flow from the flow-meter.
6. To Adjust the Maximum Flow:
  - a. Use the 13mm wrench to loosen "Locking Nut #2".
  - b. Use the 4mm Allen wrench to turn "Max. Flow Adjustment Stud #2". Turn it IN to decrease the maximum flow or turn it OUT to increase it.



## Maximum Flow Adjustment Procedure for HPV-02 Pumps with "H" or "E" Controls

**WARNING:** The flow adjustment stud is NOT mechanically restricted from being removed completely from the pump. Care should be taken when turning the flow adjustment stud OUT. *DO NOT* turn the adjustment stud OUT more than 26mm as illustrated on page 1 of this bulletin.

- c. Once the desired maximum flow has been acquired, hold the flow adjustment stud stationary with the 4mm Allen wrench and tighten the locking nut with the 13mm wrench (the proper torque for the locking nut is 10 ft-lb [14 N-m]).
7. (Optional) Install the 0-600 psi gauge into gauge port "Z".
8. Set the input speed to high idle.
9. For E2 Controls, Make sure that Ms Solenoid is energized.
10. Supply full control pressure to port "Z" or full current to solenoid "Mz". (Optional) Confirm that the pressure at port "Z" is adequate to put the pump at full displacement.
11. Measure the rotational speed of the motor, the wheel, the gearbox, etc. and calculate if the pump is supplying enough flow. If using the short circuit line, measure the flow from the flow-meter.
12. To Adjust the Maximum Flow:
  - a. Use the 13mm wrench to loosen "Locking Nut #1".
  - b. Use the 4mm Allen wrench to turn "Max. Flow Adjustment Stud #1". Turn it IN to decrease the maximum flow or turn it OUT to increase it.

**WARNING:** The flow adjustment stud is NOT mechanically restricted from being removed completely from the pump. Care should be taken when turning the flow adjustment stud OUT. *DO NOT* turn the adjustment stud OUT more than 26mm as illustrated on page 1 of this bulletin.

13. Once the desired maximum flow has been acquired, hold the flow adjustment stud stationary with the 4mm Allen wrench and tighten the locking nut with the 13mm wrench (the proper torque for the locking nut is 10 ft-lb [14 N-m]).



## Maximum Flow Adjustment Procedure for HPV-02 Pumps with "H" or "E" Controls

### ATTENTION

You have been provided information on conversion, repair and/or service of Linde components. Proper application of the information requires specific training and may require use of specialized tooling and equipment. If you choose to proceed with the conversion, repair and/or service of the Linde component(s) absent the necessary training and/or these specialized tools, you do so at your risk.

Linde Hydraulics Corporation will accept no claim for warranty or other consideration resulting from deficiencies in the conversion, repair and/or service done in accordance with the guidance offered herein when the necessary training has not been conducted and/or required specialized tooling and equipment has not been utilized.

All requests for training must be coordinated through your Linde Account Manager. He can also provide you price and availability of any specialized tooling.

Questions regarding the information provided or this disclaimer should be addressed to the Warranty & Service Department, Linde Hydraulics Corporation.

5089 Western Reserve Road  
Canfield, OH 44406  
330.533.6801 (Telephone)  
330.533.9873 (Facsimile)  
[www.lindeamerica.com](http://www.lindeamerica.com) (Web Site)

# Cover Sheet

JOB NO. 110001  
SHEET NO. 11100  
LATEST REV.

**Stahl**  
Forms  
FORM & LOCATION  
110001 (110001)

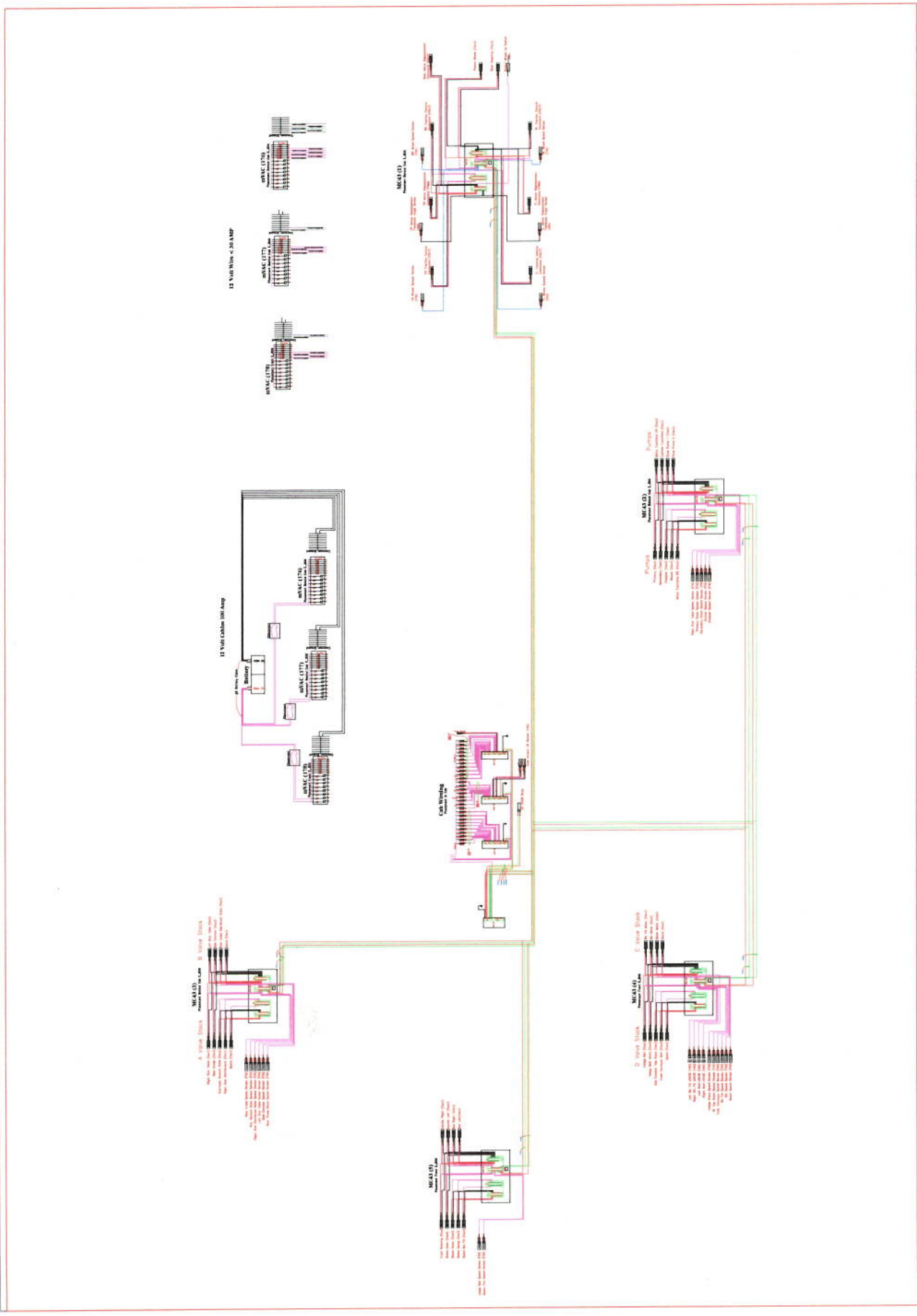
Vestaburg, MI

**STAHL LENCO DIGGER**  
ELECTRICAL CONTROL SYSTEM

DATE: \_\_\_\_\_  
REVISIONS: \_\_\_\_\_

| NO.       | DATE  | REVISIONS |
|-----------|-------|-----------|
| 0-00-2017 | 05/10 |           |
| 1-21-2017 | 02/10 |           |
| 2-21-2017 | 02/10 |           |
| 3-21-2017 | 02/10 |           |
| 4-21-2017 | 02/10 |           |
| 5-21-2017 | 02/10 |           |

| NO.       | DATE  | REVISIONS |
|-----------|-------|-----------|
| 0-00-2017 | 05/10 |           |
| 1-21-2017 | 02/10 |           |
| 2-21-2017 | 02/10 |           |
| 3-21-2017 | 02/10 |           |
| 4-21-2017 | 02/10 |           |
| 5-21-2017 | 02/10 |           |



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| DATE          |  |

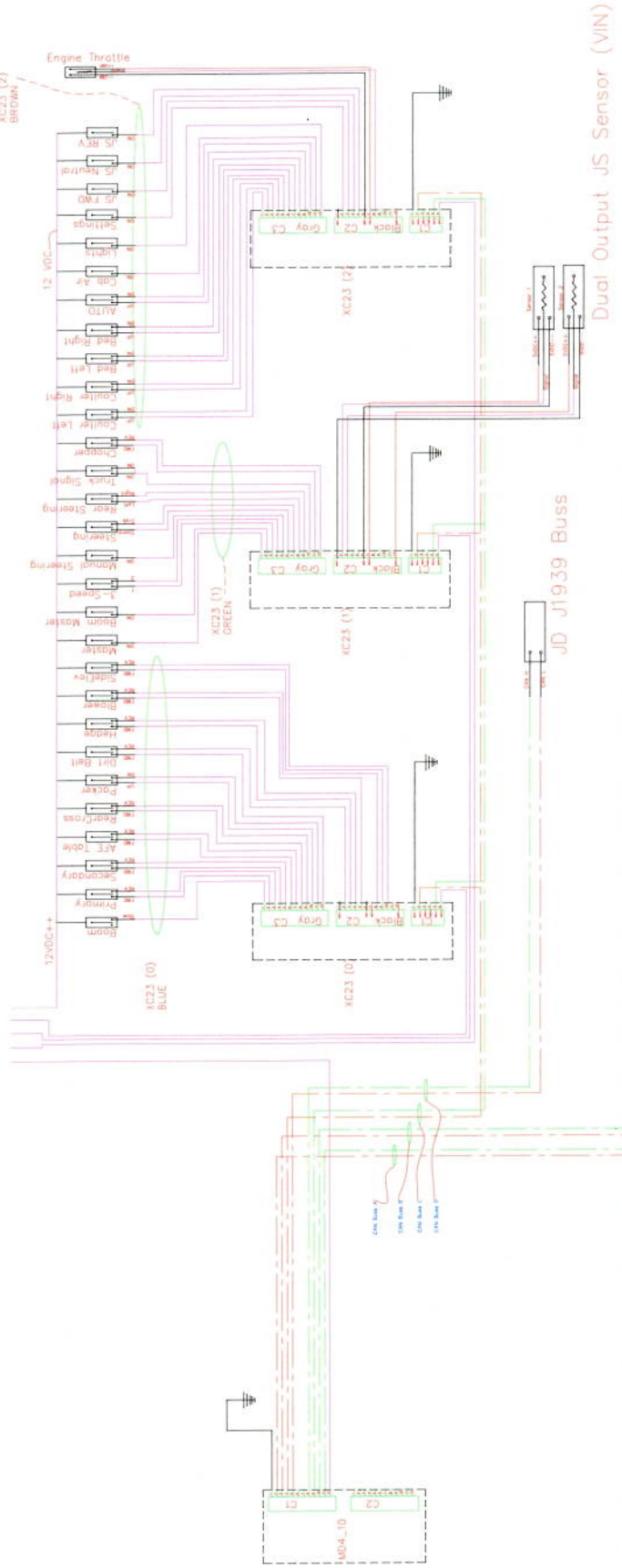
STAHL ENCO DIGGER  
ELECTRICAL CONTROL SYSTEM

Stahl Farms  
1435 N. HARTMAN RD.  
BENTON, MO.

|             |         |
|-------------|---------|
| CAB NO.     |         |
| SHEET NO.   | 11 1.01 |
| LATEST REV. |         |

# Cab Wiring

Placement in Cab



# In Cab Wire



|      |     |             |     |           |
|------|-----|-------------|-----|-----------|
| DATE | NO. | DESCRIPTION | BY  | DATE      |
|      | 1   | REVISED     | JLS | 2-21-2017 |
|      | 2   | REVISED     | JLS | 9-20-2017 |
|      |     | DESIGNED    | JLS |           |
|      |     | CHECKED     | JLS |           |
|      |     | APPROVED    | JLS |           |
|      |     | PROJECT     | JLS |           |
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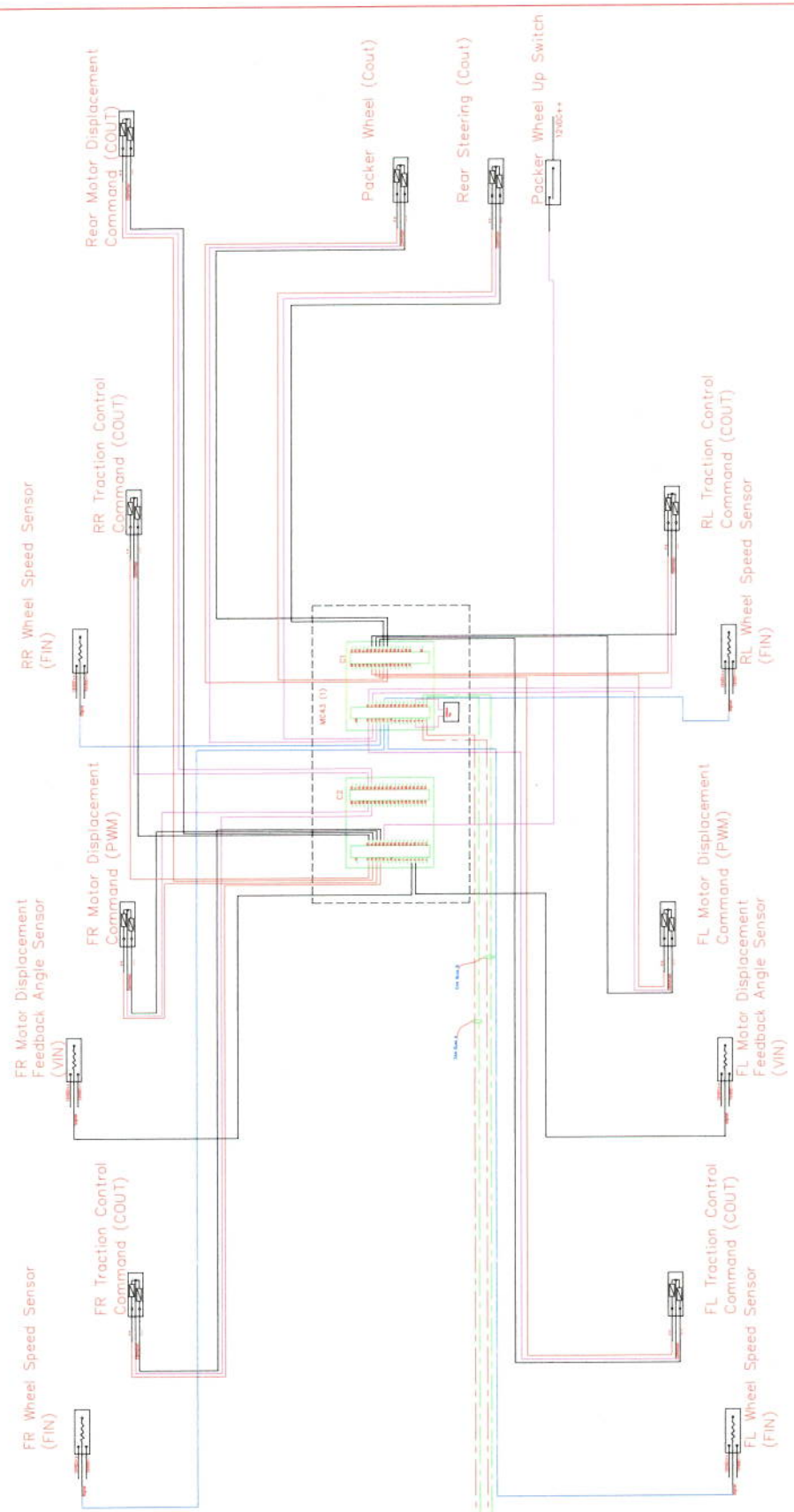
STAHL LENCO DIGGER  
 JOB # 104070  
 ELECTRICAL CONTROL SYSTEM  
 Vestburg, MI

Stahl  
 Forms  
 1233 S. Highway 40  
 Vestburg, MI 49783  
 519-897-0011

JOB NO. 100030  
 SHEET NO. 11  
 DATE 1.1.02  
 LATEST REV.

# MC43 (1)

Placement Behind Cab E\_BOX



**Propul System**

# MC43 (2)

Placement Behind Cab E\_BOX

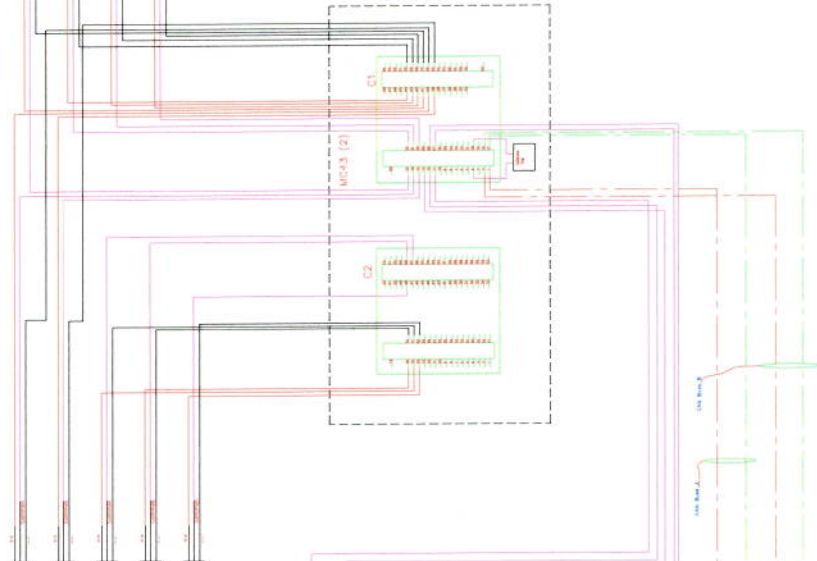
## Pumps

- Primary (Cout)
- Secondary (Cout)
- Chopper (Cout)
- Blower (Cout)
- Motor Functions 65 (Cout)

## Pumps

- Motor Functions 45 (Cout)
- Cylinder Functions (Cout)
- Drive Pump 1 (Cout)
- Drive Pump 2 (Cout)

- Right Star Table Speed Sensor (FIN)
- Primary Chain Speed Sensor (FIN)
- Secondary Chain Speed Sensor (FIN)
- Deviner Speed Sensor (FIN)
- Chopper Speed Sensor (FIN)



# Pump System

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|      |           | 1   | 2-21-2017 |    | ISSUED      |
|      |           | 2   | 8-20-2017 |    | REVISED     |

|           |      |          |                  |
|-----------|------|----------|------------------|
| DESIGNER  | DATE | LOCATION | TITLE            |
|           |      |          | STAHLENCO DIGGER |
| ARCHITECT |      |          | STAHLENCO DIGGER |
| SCALE     |      |          | VESTABURG, MI    |

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| JOB NO.     | 1000030 |
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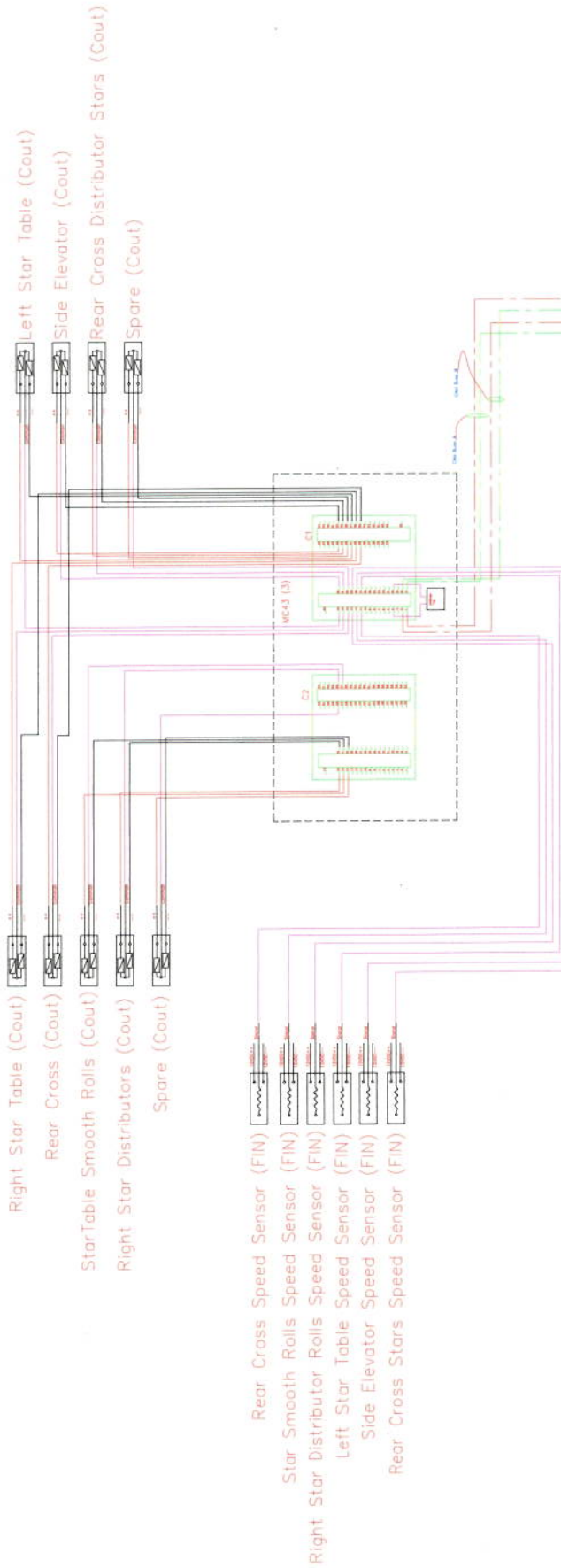
Stahl Farms  
1425 N. Highway 89  
P.O. Box 100  
Vestaburg, MI 48781

# MC43 (3)

Placement Behind Cab E\_BOX

B Valve Stack

A Valve Stack



**Valve Stack A\_B**

|      |           |     |             |           |    |
|------|-----------|-----|-------------|-----------|----|
| DATE | REVISIONS | NO. | DESCRIPTION | DATE      | BY |
|      |           | 1   | ISSUED      | 8-30-2017 |    |
|      |           | 2   | REVISED     | 2-21-2017 |    |
|      |           |     | SUBMITTED   |           |    |
|      |           |     | M.S.        |           |    |
|      |           |     | C.H.S.      |           |    |
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STHL LENC0 DIGGER  
ELECTRICAL CONTROL SYSTEM  
Yeshburg, MI

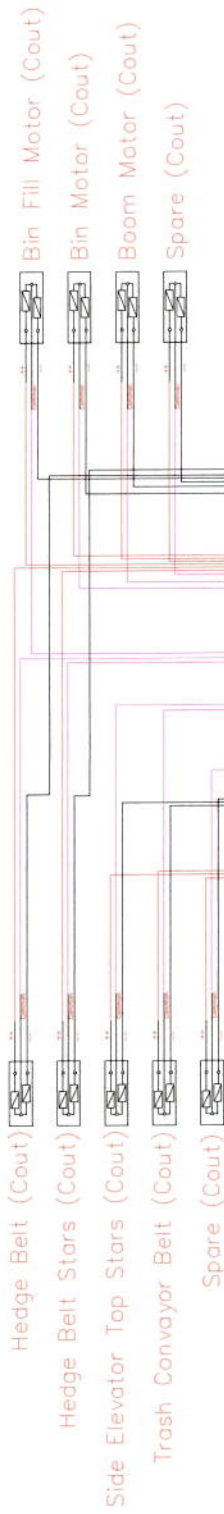
Stahl  
Forms  
1422 S. GORMAN RD  
MILLERS FALLS, WI

JOB NO. 1000030  
SHEET NO. 11  
DATE REV. 11.1.04  
LATEST REV.

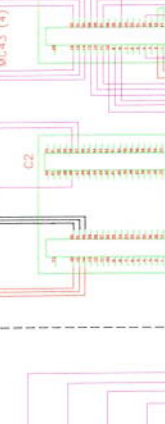
# MC43 (4)

Placement Front E\_BOX

## D Valve Stack



## C Valve Stack



### Valve Stack C\_D

|      |          |     |           |     |
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|      |          | 1   | 2-21-2017 | 1   |
|      |          | 2   | 6-30-2017 | 1   |

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| LOCATION       | Versburg, PA       |

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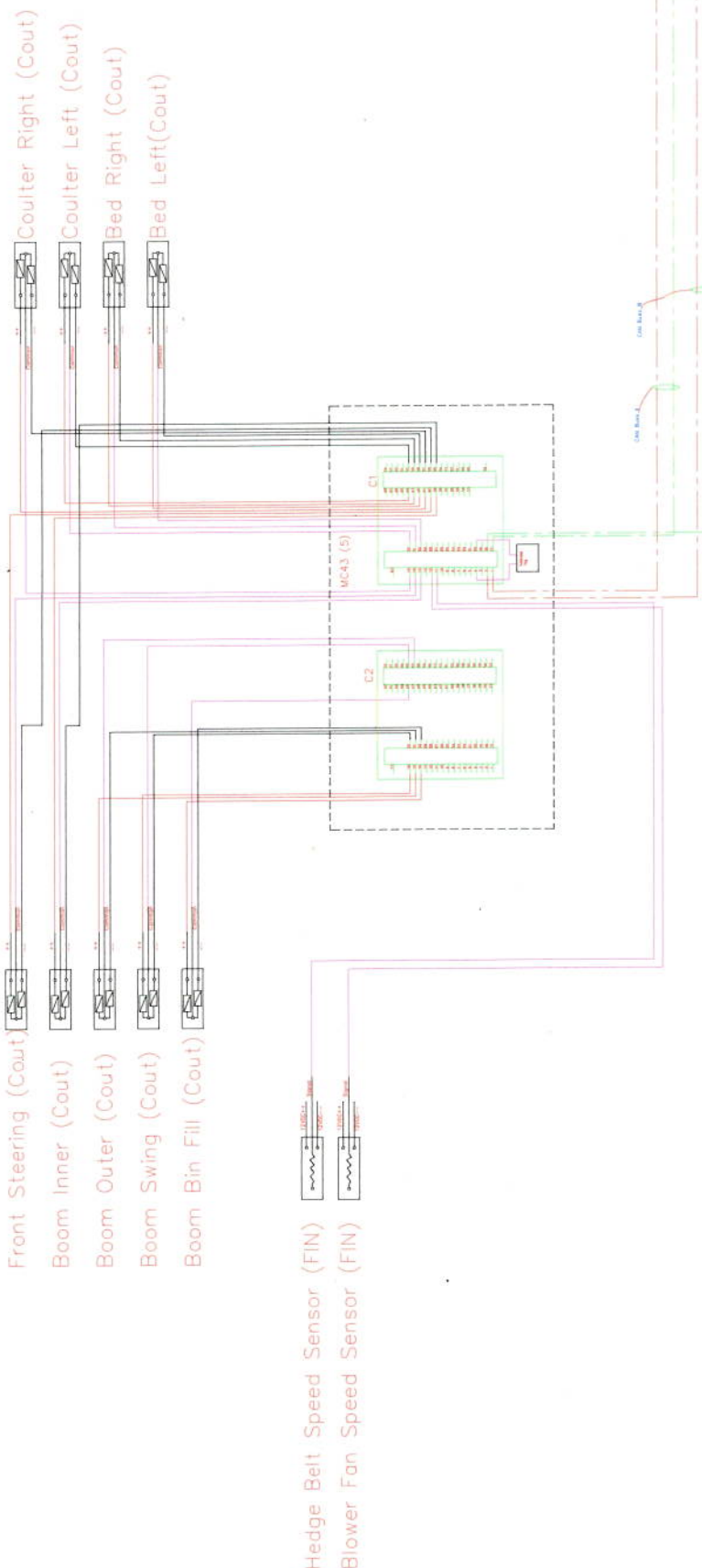
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| DATE           | 6-30-2017          |
| LOCATION       | Versburg, PA       |

Stahl  
Forms

STAHL LENCO DIGGER  
ELECTRICAL CONTROL SYSTEM  
Versburg, PA

# MC43 (5)

Placement Front E\_BOX



## Cylinder Function

|      |          |           |    |             |
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| DATE | REVISION | DATE      | BY | DESCRIPTION |
|      |          | 8-30-2017 | MS |             |
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STAHLENCODIGER  
ELECTRICAL CONTROL SYSTEM  
Vestaburg, MI

Stahl  
Forms  
1400 N. Spring St  
Vestaburg, MI 49684

JOB NO. 1000030  
SHEET NO. 11 of 11  
PROJECT NO.

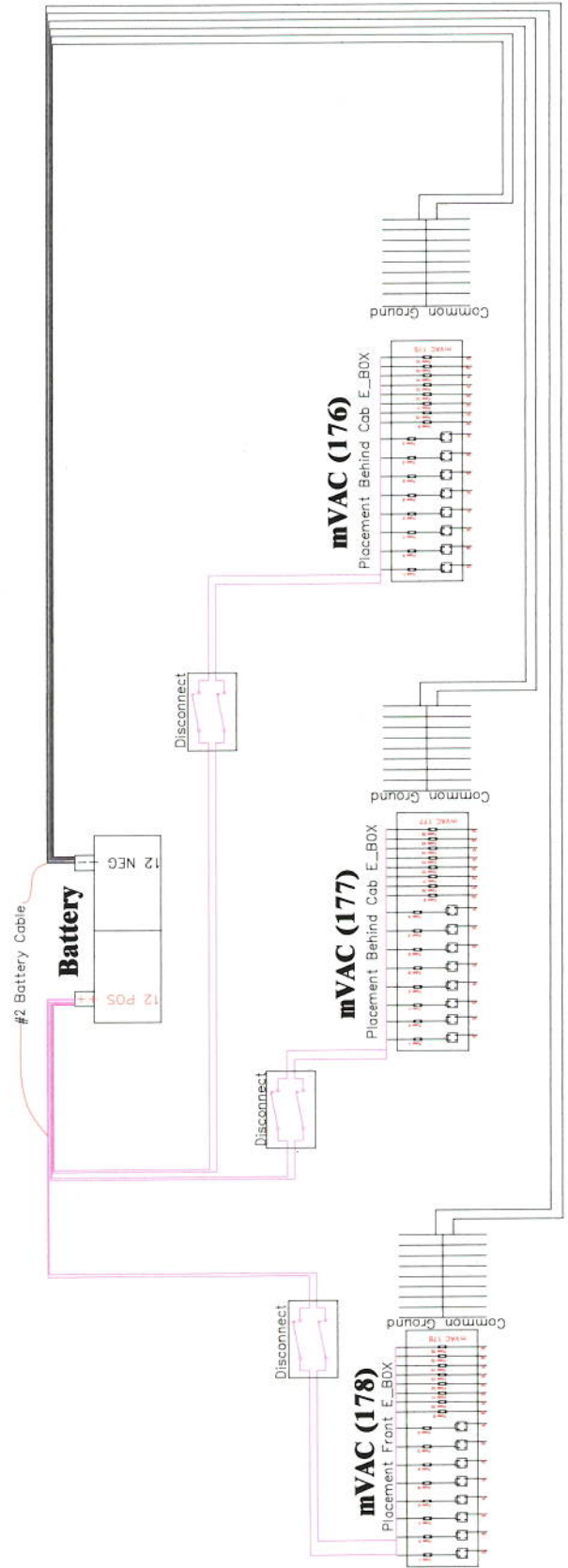
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STAH LLENCO DIGGER  
ELECTRICAL CONTROL SYSTEM  
Vestaburg, MI

Stahl  
Forms  
1400 N. Highway 90  
Vestaburg, MI 48781

JOB NO. 10000330  
SHEET NO. 11 1.07  
LATEST REV.

### 12 Volt Cables 100 Amp

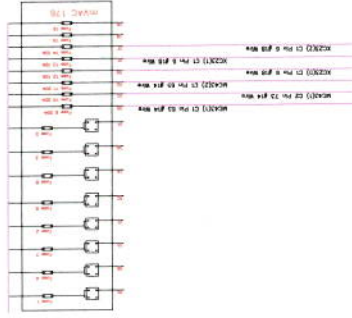


### 12 Volt Cable 100 AMP

# 12 Volt Wire < 30 AMP

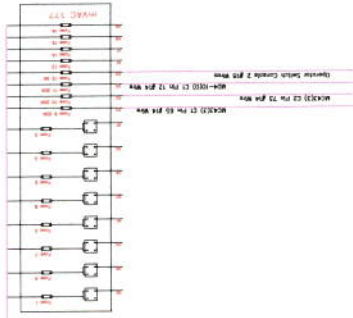
## mVAC (176)

Placement Behind Cab E\_BOX



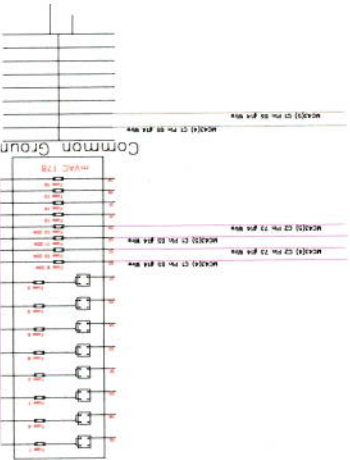
## mVAC (177)

Placement Behind Cab E\_BOX



## mVAC (178)

Placement Front E\_BOX



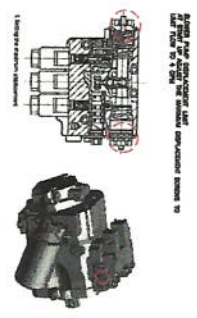
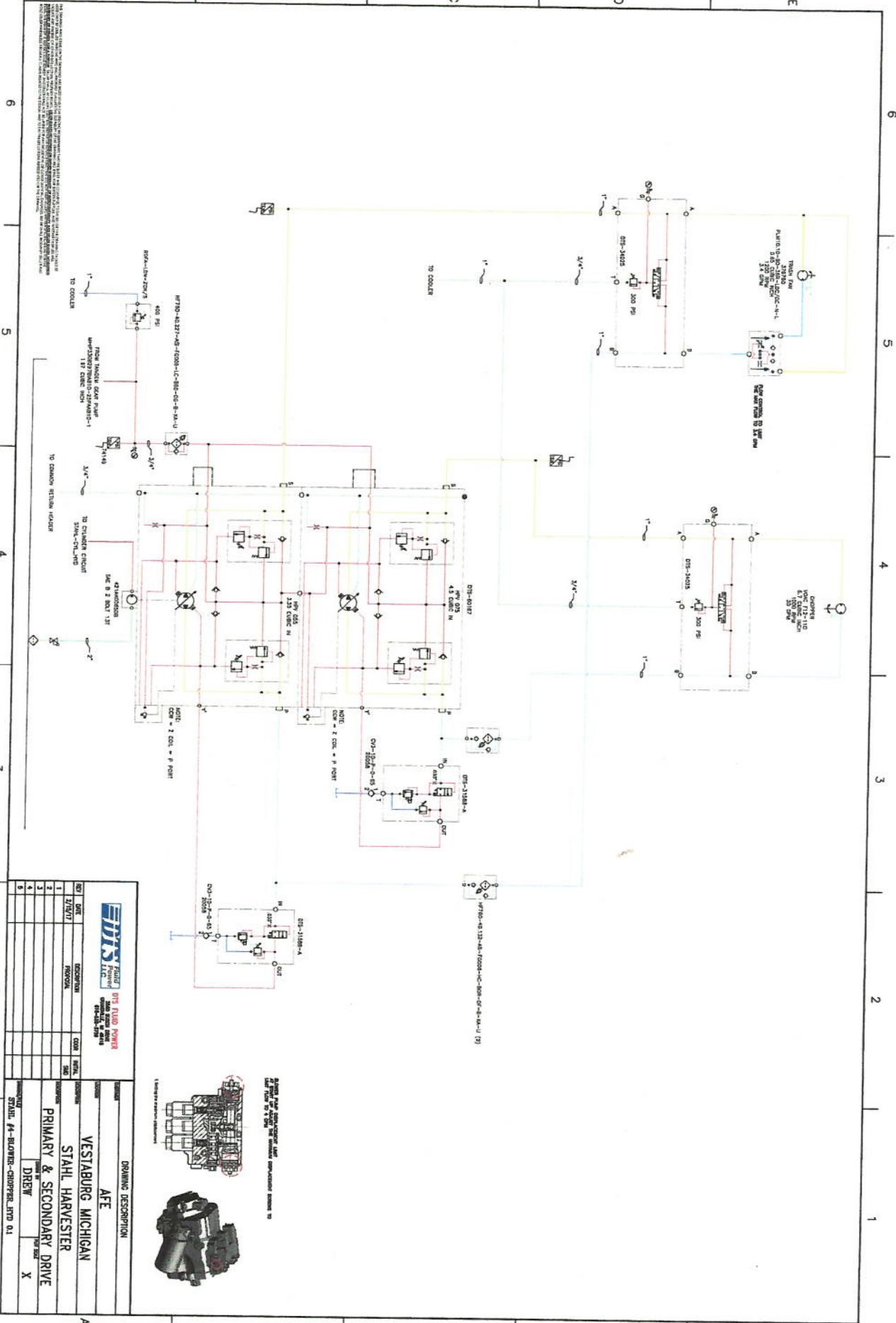
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12 Volt Wire < 30 AMP

|                |             |
|----------------|-------------|
| JOB & LOCATION | STAHN FARMS |
| DESIGNER       | STAHN FARMS |
| DATE           | 10/10/10    |
| DRAWN BY       | E.E. LOR    |
| CHECKED BY     |             |
| DATE           |             |

|            |             |
|------------|-------------|
| TITLE      | STAHN FARMS |
| DESIGNER   | STAHN FARMS |
| DATE       | 10/10/10    |
| DRAWN BY   | E.E. LOR    |
| CHECKED BY |             |
| DATE       |             |

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| REVISION | NO. | BY |
|          | 1   |    |
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| EDS POWER PRO PUMP POWER |        |             |
|--------------------------|--------|-------------|
| REV                      | DATE   | DESCRIPTION |
| 1                        | 2/7/17 | REVISION    |
| 2                        |        |             |
| 3                        |        |             |
| 4                        |        |             |
| 5                        |        |             |

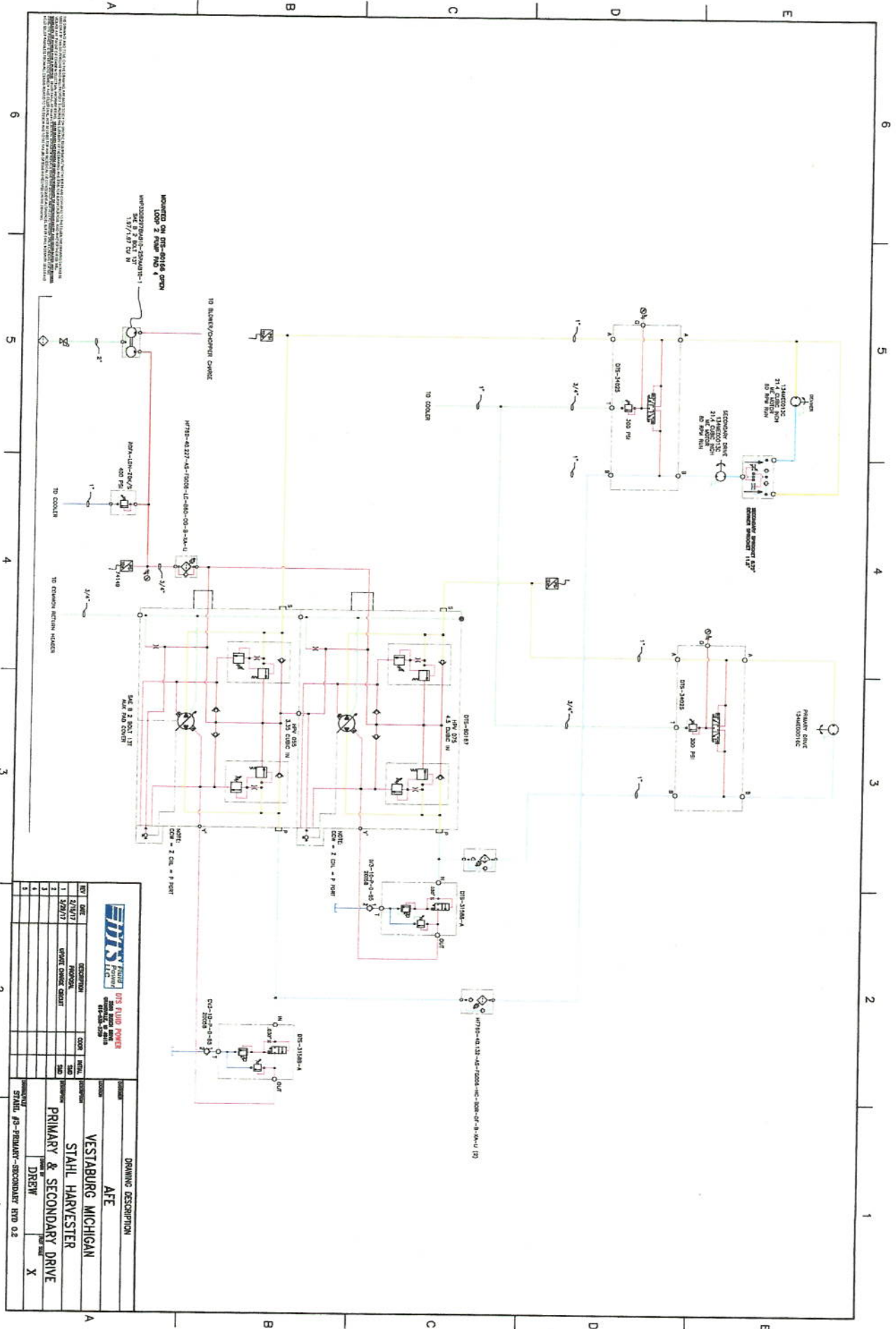
|          |                                   |
|----------|-----------------------------------|
| STANDARD | STAINL-4-1-BLOWER-COOLING-3120-01 |
| DRIBW    | X                                 |

|                           |  |
|---------------------------|--|
| DRAWING DESCRIPTION       |  |
| AFE                       |  |
| VESTABURG MICHIGAN        |  |
| STAHL HARVESTER           |  |
| PRIMARY & SECONDARY DRIVE |  |
| DRIBW                     |  |
| X                         |  |

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MOUNTED ON THE DRIVE MOTOR  
 MOTOR 2 PWR 400 PSI  
 1.57/1.47 CU IN

| REV | DATE    | DESCRIPTION         | APP'D | INTL. | DATE | DESCRIPTION |
|-----|---------|---------------------|-------|-------|------|-------------|
| 1   | 2/21/17 | ISSUE               |       |       |      |             |
| 2   | 2/27/17 | UPDATE CHANGE SHEET |       |       |      |             |
| 3   |         |                     |       |       |      |             |
| 4   |         |                     |       |       |      |             |
| 5   |         |                     |       |       |      |             |

**DRAWING DESCRIPTION**  
 AFE  
 VESTABURG MICHIGAN  
 STAHL HARVESTER  
 PRIMARY & SECONDARY DRIVE  
 DREW X

**EDS ENGINEERING**  
 154-00031C  
 154-00031C  
 154-00031C  
 154-00031C

DRAWING NO. 154-00031C  
 SHEET NO. 02  
 DATE: 2/21/17