Read this manual before using product. Failure to follow instructions and safety precautions can result in serious injury, death, or property damage. Keep manual for future reference.
This product has been designed and constructed according to general engineering standards\(^a\). Other local regulations may apply and must be followed by the operator. We strongly recommend that all personnel associated with this equipment be trained in the correct operational and safety procedures required for this product. Periodic reviews of this manual with all employees should be standard practice. For your convenience, we include this sign-off sheet so you can record your periodic reviews.

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<tr>
<th>Date</th>
<th>Employee Signature</th>
<th>Employer Signature</th>
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\(^a\) Standards include organizations such as the American Society of Agricultural and Biological Engineers, American National Standards Institute, Canadian Standards Association, International Organization for Standardization, EN Standards, and/or others.
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1. Safety

1.1. Safety Alert Symbol and Signal Words

This safety alert symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of injury or death, carefully read the message that follows, and inform others.

**SIGNAL WORDS:** Note the use of the signal words **DANGER**, **WARNING**, **CAUTION**, and **NOTICE** with the safety messages. The appropriate signal word for each message has been selected using the definitions below as a guideline.

- **DANGER** Indicates an imminently hazardous situation that, if not avoided, will result in serious injury or death.
- **WARNING** Indicates a hazardous situation that, if not avoided, could result in serious injury or death.
- **CAUTION** Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.
- **NOTICE** Indicates a potentially hazardous situation that, if not avoided, may result in property damage.

1.2. Basic Assembler Safety, Responsibilities, and Qualifications

The safety information found throughout the complete Safety chapter of the manual applies to all safety practices. Additional instructions specific to a certain safety practice (such as Assembly Safety), can be found in the appropriate section.

YOU are responsible for the SAFE assembly and installation of the equipment. YOU must ensure that you and anyone else who is going to work around the equipment understands all procedures and related SAFETY information contained in this manual.

Remember, YOU are the key to safety. Good safety practices not only protect you, but also the people around you. Make these practices a working part of your safety program. All accidents can be avoided.

- It is the equipment assembler and installation personnel’s responsibility to read and understand ALL safety instructions, safety decals, and manuals and follow them when assembling or installing the equipment.
- Only experienced personnel who are familiar with this type of assembly and installation should perform this work. Untrained assemblers/installers expose themselves and bystanders to possible serious injury or death.
- Do not modify the equipment in any way without written permission from the manufacturer. Unauthorized modification may impair the function and/or safety, and could affect the life of the equipment. Any unauthorized modification of the equipment will void the warranty.
1.3. Overhead Power Lines

**DANGER**

- When operating or moving, keep equipment away from overhead power lines and devices.
- This equipment is not insulated.
- Electrocution can occur without direct contact.

1.4. Rotating Flighting

**DANGER**

- KEEP AWAY from rotating flighting.
- DO NOT remove or modify flighting guards, doors, or covers. Keep in good working order. Have replaced if damaged.
- DO NOT operate the equipment without all guards, doors, and covers in place.
- NEVER touch the flighting. Use a stick or other tool to remove an obstruction or clean out.
- Shut off and lock out power to adjust, service, or clean.

1.5. Cleated Conveyor Belt

**WARNING**

- KEEP HANDS AWAY from moving cleated conveyor belt.
- DO NOT remove or modify guards, doors, or covers. Keep in place and in good working order. Have replaced if damaged.
- DO NOT operate the conveyor without all guards, doors, and covers in place.
- Shut off and lock out power to adjust, service, or clean.
1.6. Rotating Parts Safety

**WARNING**

- Keep body, hair, and clothing away from rotating pulleys, belts, chains, and sprockets.
- Do not operate with any guard removed or modified. Keep guards in good working order.
- Shut off and remove key or lock out power source before inspecting or servicing machine.

1.7. Assembly Safety

**WARNING**

- Do not take chances with safety. The components can be large, heavy, and hard to handle. Always use the proper tools, rated lifting equipment, and lifting points for the job.
- Always have two or more people assembling the equipment.
- Make sure you have sufficient lighting for the work area.
- Tighten all fasteners according to their specifications. Do not replace or substitute bolts, nuts, or other hardware that is of lesser quality than the hardware supplied by the manufacturer.

1.8. Guards Safety

**WARNING**

Proper guards are important to ensure workers are safe.
- Install guards to prevent workers from contacting moving parts.
- Do not operate equipment unless all guards are in place.
- Do not walk or step on guards.
- Lock out power before removing a guard.
- Ensure all guards are replaced after performing maintenance.
1.9. Hydraulic Winch

**WARNING**

- Keep away from rotating cable drum and winch cable. Do not touch or grab cable while winch is being operated or use hands to guide the cable. Failure to heed could result in serious injury.

- Inspect cable and cable clamps before installing and using hydraulic winch. Replace cable if frayed or damaged. Tighten cable clamps if necessary.

- Do not continue to supply power to hydraulic winch after equipment has reached full up position.

- Do not disconnect hydraulic quick couplers when lines are pressurized.

- Make sure lift cable is seated in cable pulley.

- Always keep a minimum of 3 cable wraps on the cable drum.

1.10. Battery Safety

- Wear safety glasses when working near batteries.

- Make certain the battery or terminal covers are in place and in good working order.

- Keep all sparks and flames away from batteries; gas given off by electrolyte is explosive.

- Avoid contact with battery electrolyte. Wash off any spilled electrolyte immediately.

- Do not tip batteries more than 45° to avoid electrolyte loss.

- To avoid injury from sparks or short circuits, disconnect battery ground cable before servicing any part of an electrical system.

1.11. Tire Safety

- Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion that may result in serious injury or death.

- **DO NOT** attempt to mount a tire unless you have the proper equipment and experience to do the job.

- Have a qualified tire dealer or repair service perform required tire maintenance.

- When replacing worn tires, make sure they meet the original tire specifications. Never undersize the replacement tire.

- **DO NOT** weld to the tire rim with the tire mounted on the rim. This action may cause an explosion which could result in serious injury or death.
• Inflate tires to the manufacturer’s recommended pressure.

• Tires should not be operated at speeds higher than their rated speed.

• Keep wheel lug nuts tightened to manufacturer’s recommendations.

• Never reinflate a tire that has been run flat or seriously under-inflated without removing the tire from the wheel. Have the tire and wheel closely inspected for damage before remounting.

1.12. Drives and Lockout Safety

Inspect the power source (drive) before using and know how to shut down in an emergency. Whenever you service or adjust your equipment, make sure you shut down and lock out your power source to prevent inadvertent start-up and hazardous energy release. Know the procedure(s) that applies to your equipment from the following power sources.

1.12.1. Electric Motor Safety

⚠️ WARNING

Power Source

• Electric motors and controls shall be installed and serviced by a qualified electrician and must meet all local codes and standards.

• A magnetic starter should be used to protect your motor.

• You must have a manual reset button.

• Reset and motor starting controls must be located so that the operator has full view of the entire operation.

• Locate main power disconnect switch within reach from ground level to permit ready access in case of an emergency.

• Motor must be properly grounded.

• Guards must be in place and secure.

• Ensure electrical wiring and cords remain in good condition; replace if necessary.

Lockout

• The control box and motor should be unplugged during shutdown or whenever maintenance is performed.

• If reset is required, disconnect all power before resetting motor.
1.12.2. Gas Engine Safety

**WARNING**

**Power Source**

- Keep guards in place and secure.
- Properly ventilate surrounding area.
- Never fill the fuel tank while smoking or near an open flame. Always shut down and allow engine to cool before filling with fuel.
- Never overfill the tank or spill fuel. If fuel is spilled, clean it up immediately.
- Be sure to use the correct type and grade of fuel.
- Ground the fuel funnel or nozzle against the filler neck to prevent sparks that could ignite fuel vapors.
- Be sure to replace the fuel fill cap when you are done.

**Lockout**

- For engines with an electric start, remove the ignition key, the spark plug wire, or the spark plug.
- For engines with a rope or crank start, remove the spark plug wire or the spark plug.

1.12.3. Hydraulic Drive Safety

**WARNING**

**Power Source**

- Refer to the rules and regulations applicable to the power source operating your hydraulic drive.
- Do not connect or disconnect hydraulic lines while system is under pressure.
- Keep all hydraulic lines away from moving parts.
- Escaping hydraulic fluid under pressure will cause serious injury if it penetrates the skin surface (serious infection or toxic reaction can develop). See a doctor immediately if injured.
- Use metal or wood as a backstop when searching for hydraulic leaks and wear proper hand and eye protection.
- Check all hydraulic components are tight and in good condition. Replace any worn, cut, abraded, flattened, or crimped hoses.
- Clean the connections before connecting to equipment.
• Do not attempt any makeshift repairs to the hydraulic fittings or hoses with tape, clamps, or adhesive. The hydraulic system operates under extremely high pressure; such repairs will fail suddenly and create a hazardous and unsafe condition.

Lockout

• Always place all hydraulic controls in neutral and relieve system pressure before disconnecting or working on hydraulic system.

1.13. Personal Protective Equipment

Safety Glasses
• Wear safety glasses at all times to protect eyes from debris.

Coveralls
• Wear coveralls to protect skin.

Protective Gloves
• Wear protective gloves to protect your hands from chemicals.

Steel-Toe Boots
• Wear steel-toe boots to protect feet from falling debris.

1.14. Safety Decals

• Keep safety decals clean and legible at all times.

• Replace safety decals that are missing or have become illegible. See decal location figures that follow.

• Replaced parts must display the same decal(s) as the original part.

• Replacement safety decals are available free of charge from your distributor, dealer, or factory.

1.14.1. Decal Installation/Replacement

1. Decal area must be clean and dry, with a temperature above 50°F (10°C).

2. Decide on the exact position before you remove the backing paper.

3. Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.

4. Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.

5. Small air pockets can be pierced with a pin and smoothed out using the sign backing paper.
1.14.2. Safety Decal Locations and Details

Replicas of the safety decals that are attached to the equipment and their messages are shown in the figure(s) that follow. Safe operation of the equipment requires that you familiarize yourself with the various safety decals and the areas or particular functions that the decals apply to, as well as the safety precautions that must be taken to avoid serious injury, death, or damage.

STORM reserves the right to update safety decals without notice. Safety decals may not be exactly as shown.
1.15. Safety Decal Placement

Figure 1.1 Safety Decal Locations
Figure 1.2 Other Decal Locations
1.16. Safety Decal Content

**Rotating Flighting Hazard**

To prevent death or serious injury:

- **KEEP AWAY** from rotating auger flighting.
- **DO NOT** remove or modify auger flighting guards, doors, or covers. Keep in good working order. Have replaced if damaged.
- **DO NOT** operate the auger without all guards, doors, and covers in place.
- **NEVER** touch the auger flighting. Use a stick or other tool to remove an obstruction or clean out.
- Shut off and lock out power to adjust, service, or clean.

**Electrocution Hazard**

To prevent death or serious injury:

- When operating or moving, keep equipment away from overhead power lines and devices.
- Fully lower equipment before moving.
- This equipment is not insulated. Electrocutation can occur without direct contact.

**Hazardous Voltage**

Can shock, burn, or cause death.

Do not work in here unless you are a qualified electrician.
To prevent serious injury or death:
• Read and understand the manual before assembling, operating, or maintaining the equipment.
• Only trained personnel may assemble, operate, or maintain the equipment.
• Children and untrained personnel must be kept outside of the work area.
• If the manual, guards, or decals are missing or damaged, contact factory or dealer for replacements.
• Lock out power before performing maintenance.
• To prevent equipment collapse, support equipment tube while disassembling certain components.
• Electric motors must be grounded. Disconnect power before resetting overloads.

Transport Hazard
To prevent serious injury or death:
• Securely attach equipment to vehicle with correct pin and safety chains.
• Use a tow vehicle to move equipment.

Missing Guard Hazard
To prevent serious injury or death, shut off power and reattach guard before operating machine.

Entanglement Hazard
To prevent serious injury or death:
• Keep body, hair, and clothing away from rotating pulleys, belts, chains, and sprockets.
• Do not operate with any guard removed or modified. Keep guards in good working order.
• Shut off and remove key or lock out power source before inspecting or servicing machine.
To prevent serious injury or death:

- Keep away from rotating cable drum and winch cable.
- Inspect lift cable periodically; replace if damaged.
- Inspect cable clamps periodically; tighten if necessary.

**Hazardous Voltage Inside**

To prevent serious injury or death:

- If the control box is not functioning normally, do not open box; contact your authorized dealer.
- To service box, first disconnect main power supply. Components inside box may contain hazardous voltage even after power has been disconnected.

**Belt Crush Hazard**

To prevent serious injury or death:

- KEEP HANDS AWAY from moving cleated conveyor belt.
- DO NOT remove or modify guards, doors, or covers. Keep in place and in good working order. Have replaced if damaged.
- DO NOT operate the conveyor without all guards, doors, and covers in place.
- Shut off and lock out power to adjust, service, or clean.

**Crush Hazard**

To prevent serious injury, insert pin before clean out of hopper.

**Pinch Point Hazard**

Keep hands clear.
1. SAFETY
1.16. SAFETY DECAL CONTENT
2. Assembly

WARNING Before continuing, ensure you have read and understand the relevant information in the safety section. Safety information is provided to help prevent serious injury, death, or property damage.

CAUTION

Ensure the auger is in the fully lowered position and on a level surface with the wheels chocked before proceeding with any assembly.

2.1. STORM SP KIT ASSEMBLY

Figure 2.1 Complete SP Kit
### 2.1.1. Non-Steering Caster Assembly

#### Table 2.1 Non-Steering Caster Assembly BOM

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<td>2</td>
<td>3/4&quot; NC NYLON LOCKNUT PLTD</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>TIRE ASSY, 4.8 - 8&quot; (REG - WHITE RIM)</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>STORM RIGHT AXLE W/BEARINGS</td>
<td>1</td>
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<tr>
<td>5</td>
<td>WHEEL YOKE WELDMENT</td>
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<td>7/16&quot; NC NYLON LOCKNUT GR 2 PLTD</td>
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<td>8</td>
<td>CAM AND TUBE STOP BRACKET - LEFT</td>
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#### Figure 2.2 Caster Assembly

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**30945 R0**

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### 2.1.2. Steering Assembly

#### Table 2.2 Steering Assembly BOM

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<td>3 SPOOL VALVE</td>
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<td>5</td>
<td>LEVER ONLY, 3-SPOOL VALVE</td>
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<td>172-125 5&quot; BLACK HANDLE GRIP</td>
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<td>8</td>
<td>1/2&quot; NC NYLON LOCKNUT GR 2 PLTD</td>
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<td>9</td>
<td>SP KIT HANDLE POSITION PLATE, STORM</td>
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<td>HANDLE PIVOT, STORM</td>
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<td>62 MST ZP FLANGE PLATED FINISH</td>
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<td>3/16&quot; X 1-1/2&quot; ROLL PIN</td>
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<td>COMPRESSION SPRING (SINGLE)</td>
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Figure 2.3 Steering Assembly
### 2.1.3. Steering Caster Assembly

#### Table 2.3 Steering Caster Assembly BOM

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<td>3/4&quot; NC NYLON LOCKNUT PLTD</td>
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<tr>
<td>3</td>
<td>TIRE ASSY, 4.8 - 8&quot; (REG - WHITE RIM)</td>
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<tr>
<td>4</td>
<td>STORM LEFT AXLE W/BEARINGS</td>
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<tr>
<td>5</td>
<td>STORM WHEEL YOKE WELDMENT</td>
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<td>3/8&quot; X 3/4&quot; NC BOLT GR 5 PLTD</td>
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<td>3/8&quot; LOCKNUT</td>
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<tr>
<td>9</td>
<td>7/16&quot; NC NYLON LOCKNUT GR 2 PLTD</td>
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<td>10</td>
<td>1/2&quot; X 1-1/2&quot; NC BOLT GR 8 PLTD</td>
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<td>11</td>
<td>1/2&quot; NC NYLON LOCKNUT GR 2 PLTD</td>
<td>1</td>
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<tr>
<td>12</td>
<td>HANDLE PIVOT, STORM</td>
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<td>13</td>
<td>STORM SHORT STEERING WELDMENT</td>
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<td>STORM LONG STEERING WELDMENT</td>
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<td>15</td>
<td>7/16&quot; X 1&quot; NC BOLT GR 5 PLTD</td>
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<tr>
<td>16</td>
<td>CAM AND TUBE STOP BRACKET, RIGHT</td>
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</table>
Attach Cam and Tube Stop Bracket, as well (shown from other side)

Figure 2.4 Steering Caster Assembly
2.1.4. STORM Tube Support

Table 2.4 STORM Tube Support Assembly BOM

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<td>3/8” NC NYLON LOCKNUT PLTD</td>
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<td>4</td>
<td>LOCKING FLANGE, STORM</td>
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<td>STORM TUBE SUPPORT</td>
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<td>3/8” X 2” NC BOLT GR 5 PLTD</td>
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<td>1/2” X 4” NC BOLT GR 8 PLTD</td>
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<td>1/2” NC NYLON LOCKNUT GR 2 PLTD</td>
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<td>10</td>
<td>SP KIT CYL COUPLER WELD-MENT, STORM</td>
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<td>11</td>
<td>CYL 2 X 15.625 X 1.125 ROD (1” @ EN</td>
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Figure 2.5 STORM Tube Support Assembly
2.1.5. SP Kit Assembly

Table 2.5 Caster Attachment BOM

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<td>1/4&quot; NC SERRATED FLANGE NUT PLTD</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>STORM STOP RING</td>
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<tr>
<td>4</td>
<td>STORM CASTER ASSEMBLY (STEERING &amp; NON-STEERING)</td>
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</table>

Figure 2.6 Attach Caster Assemblies to Tube Support Assembly
2. ASSEMBLY
2.1. STORM SP Kit ASSEMBLY

STORM - STORM SEED TREATER
ASSEMBLY MANUAL

30945 R0
2.2. STORM ASSEMBLY

Figure 2.7 Auger - Complete
2.2.1. Attach Boot

Table 2.6 Boot Attachment BOM

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7/16&quot; X 1&quot; NC BOLT GR 5 PLTD</td>
<td>8</td>
</tr>
<tr>
<td>2</td>
<td>7/16&quot; LOCKNUT</td>
<td>8</td>
</tr>
</tbody>
</table>

Figure 2.8 Attach Boot
2.2.2. Attach Mover Kit

Table 2.7 Mover Kit Attachment BOM

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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<tbody>
<tr>
<td>1</td>
<td>3/4” X 2” NC BOLT GR 8 PLTD</td>
<td>2</td>
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<tr>
<td>2</td>
<td>3/4” NC NYLON LOCKNUT PLTD</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>AUGER TUBE</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>STORM SP KIT</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>1/2” X 2-1/2” GR8 BOLT</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>7/16” LOCKNUT</td>
<td>1</td>
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Figure 2.9 Attach Mover Kit
2.2.3. Attach Transport Bracket

Table 2.8 Transport Bracket attachment BOM

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<td>7/16” X 1-1/4” NC BOLT GR 8 PLTD</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>7/16” LOCKNUT</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>STORM CONVEYOR LATCH MOUNT</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>TRANSPORT REST WELDMENT</td>
<td>1</td>
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<tr>
<td>5</td>
<td>7/16” FLAT WASHER</td>
<td>4</td>
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Figure 2.10 Attach Transport Bracket
2.2.4. Attach Conveyor

Table 2.9 Conveyor attachment BOM

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<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>7/16&quot; X 1-1/4&quot; NC BOLT GR 8 PLTD</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>1&quot; OD X 29/64&quot; ID X 10 GA WASHER PLTD</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>7/16&quot; NC NYLON LOCKNUT GR 2 PLTD</td>
<td>2</td>
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<tr>
<td>4</td>
<td>BOOT</td>
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<tr>
<td>5</td>
<td>CONVEYOR</td>
<td>1</td>
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<tr>
<td>6</td>
<td>TRANSPORT LOCK PIN, STORM</td>
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<tr>
<td>7</td>
<td>3/16&quot; X 1-3/8&quot; LINCHPIN</td>
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Figure 2.11 Attach Conveyor
2.2.5. Attach Control Box and Pumps

Table 2.10 Control Box attachment BOM

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<td>6</td>
</tr>
<tr>
<td>2</td>
<td>1&quot; OD X 29/64&quot; ID X 10 GA WASHER PLTD</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>5/16&quot; NC SERRATED FLANGE NUT PLTD</td>
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<tr>
<td>4</td>
<td>STORM CONTROLLER MOUNT PLATE</td>
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</tr>
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</table>

Figure 2.12 Attach Control Box and Pumps (left side of control box)
Figure 2.13 Attach Control Box and Pumps (right side of control box)
2.2.6. Attach Calibration System

Table 2.11 Calibration System attachment BOM

<table>
<thead>
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<th>QTY</th>
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<tbody>
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<td>1</td>
<td>3/8” X 3/4” MC BOLT GR 5 PLTD</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>3/8” NC NYLON LOCKNUT PLTD</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>CONTROL BOX/PUMP/VALVE ASSEMBLY</td>
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<td>4</td>
<td>STORM VALVE MOUNT PLATE SUB-ASSEMBLY</td>
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Figure 2.14 Attach Calibration System
### 2.2.7. Attach Hose

Table 2.12 Hose Attachment BOM

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<th>ITEM</th>
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<th>QTY</th>
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<tbody>
<tr>
<td>1</td>
<td>3/8&quot; BRAIDED HOSE X 42&quot; LONG</td>
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</tr>
<tr>
<td>2</td>
<td>3/8&quot; BRAIDED HOSE X 15&quot; LONG</td>
<td>2</td>
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<tr>
<td>3</td>
<td>3/8&quot; BRAIDED HOSE X 59&quot; LONG</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>3/8&quot; BRAIDED HOSE X 60&quot; LONG</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>3/8&quot; BRAIDED HOSE X 7&quot; LONG</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>3/8&quot; BRAIDED HOSE X 18&quot; LONG</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>3/8&quot; BRAIDED HOSE X 72&quot; LONG</td>
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</tr>
<tr>
<td>8</td>
<td>3/8&quot; BRAIDED HOSE X 14&quot; LONG</td>
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</tr>
<tr>
<td>9</td>
<td>I/P 73 MASTERFLEX HOSE X 18&quot; LONG</td>
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<tr>
<td>10</td>
<td>3/8&quot; BRAIDED CAL SUPPLY HOSE X 59&quot; LONG</td>
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<tr>
<td>11</td>
<td>3/8&quot; BRAIDED HOSE X 65&quot; LONG</td>
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Figure 2.15 Chemical Hose Routing
Figure 2.16 Hoses attached to calibration system
Figure 2.17 Hoses attached to boot