50-35-SURFACE

PAGE 2 of 2
STANDARD CONSOLE LOCATION LAYOUT
SEE NOTE 18 IN REGARDS TO ALTERNATE LOCATIONS

50–35–SURFACE

NOTICE OF CONFIDENTIAL INFORMATION

MOHAWK RESOURCES LTD.
LIFT & CONSOLE SUBGRADE CONDUIT LOCATIONS, SECTION VIEWS

UNITS = INCH (mm) = POUND (kg)

SEAL BARRIER AT EACH CONDUIT GOING TO LIFT UNIT (BY OTHERS)

AIR MANIFOLD

OPERATOR SIDE OF POWER CONSOLE

INCOMING AIR LINE (BY OTHERS)

JUNCTION BOX

FLEX CONDUIT FOR INCOMING POWERLINE (BY OTHERS)
SEE NOTES 19 & 20

SECTION C-C

SECTION B-B

SECTION D-D

NOTICE OF CONFIDENTIAL INFORMATION

Mohawk Resources Ltd.

NOTES:
1. FOLLOW ALL SHARP CORNERS & EDGES.
2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE BC-200.
3. VULCAN MATERIALS WILL CONFORM TO AWS SPECIFICATION TO E-709 ELECTRODE OR E7016 OXYFUEL WELDING ONLY.

Mohawk Resources Ltd.

Scale: 1/4" = 1'-0"
TOP VIEW OF CONSOLE FRAME

UNIT = INCH (mm)

1 3/4 TYP
(44)

BACK OF CONSOLE

32 1/2
(826)

36
(914)

CONDUIT SIZES & APPLICATION:

A: 1" (25.4) (MIN) SCHED 40 STEEL PIPE – INCOMING POWER CUSTOMER PREFERENCE
B: 1" (25.4) (MIN) SCHED 40 STEEL PIPE – INCOMING AIRLINE OPTIONAL
C, D: 4" (101) SCHED 40 PVC PIPE – HYDRAULIC & AIR TO LIFT
E, F, G, H: 1" (25.4) (MIN) SCHED 40 STEEL PIPE – ELECTRICAL TO LIFT

* NOTE: USE SMOOTH ELECTRICAL 90’S IN CONDUITS, NOT PLUMBING 90’S !!

CONTROL CONSOLE & STUB-UP DETAILS
ANCHOR BOLT LOCATION DIMENSIONS AND DETAILS

1" (23.4) MAXIMUM LEVELING SHIM THICKNESS
SEE NOTE 10

1" (23.4) MAXIMUM LEVELING SHIM THICKNESS
SEE NOTE 10

REPRESENTATIVE TIGHTENING SEQUENCE FOR ANCHOR BOLTS

TIGHTENING FROM CENTER OF BASE OUTWARD

LEVELING SHIM DETAIL

LEVELING SHIMS ARE AVAILABLE
IN A RANGE OF THICKNESSES
FROM 1/16" (1.6), 1/8" (3.2), & 1/4" (6.3)

1/2" PLATE THICKNESS
(12)

MINIMUM PREDOMINANT
(75%) WHERE IT IS POSSIBLE
CREASE ENHANCEMENT
PROVIDE ADDITIONAL
ANCHORAGE STRENGTH

CONCRETE THICKNESS
SEE GENERAL NOTES

BASE UNIT BASE PLATE
WASHER
TOP OF FLOOR ELEVATION
1 1/2" PLATE THICKNESS
(12)

ANCHOR BOLT DETAIL

ANCHOR BOLT

CONCRETE THICKNESS
SEE GENERAL NOTES

LEVELING SHIM

ANCHOR BOLT

3/8" KEY
(9.5)

PLACE LEVELING SHIMS IN A STRAIGHT AND
ORDERLY FASHION AT EACH ANCHOR BOLT.
USE THICKER SHIMS TO FULLY FILL OUT EACH
LOCATION.

LEVELING SHIM DETAIL

LEVELING SHIMS ARE AVAILABLE
IN A RANGE OF THICKNESSES
FROM 1/16" (1.6), 1/8" (3.2), & 1/4" (6.3)

1/2" PLATE THICKNESS
(12)

MINIMUM PREDOMINANT
(75%) WHERE IT IS POSSIBLE
CREASE ENHANCEMENT
PROVIDE ADDITIONAL
ANCHORAGE STRENGTH

CONCRETE THICKNESS
SEE GENERAL NOTES

BASE UNIT BASE PLATE
WASHER
TOP OF FLOOR ELEVATION
1 1/2" PLATE THICKNESS
(12)

ANCHOR BOLT DETAIL

ANCHOR BOLT

3/8" KEY
(9.5)

PLACE LEVELING SHIMS IN A STRAIGHT AND
ORDERLY FASHION AT EACH ANCHOR BOLT.
USE THICKER SHIMS TO FULLY FILL OUT EACH
LOCATION.

LEVELING SHIM DETAIL

LEVELING SHIMS ARE AVAILABLE
IN A RANGE OF THICKNESSES
FROM 1/16" (1.6), 1/8" (3.2), & 1/4" (6.3)

1/2" PLATE THICKNESS
(12)

MINIMUM PREDOMINANT
(75%) WHERE IT IS POSSIBLE
CREASE ENHANCEMENT
PROVIDE ADDITIONAL
ANCHORAGE STRENGTH

CONCRETE THICKNESS
SEE GENERAL NOTES

BASE UNIT BASE PLATE
WASHER
TOP OF FLOOR ELEVATION
1 1/2" PLATE THICKNESS
(12)

ANCHOR BOLT DETAIL

ANCHOR BOLT

3/8" KEY
(9.5)

PLACE LEVELING SHIMS IN A STRAIGHT AND
ORDERLY FASHION AT EACH ANCHOR BOLT.
USE THICKER SHIMS TO FULLY FILL OUT EACH
LOCATION.

LEVELING SHIM DETAIL

LEVELING SHIMS ARE AVAILABLE
IN A RANGE OF THICKNESSES
FROM 1/16" (1.6), 1/8" (3.2), & 1/4" (6.3)
### Lift Data Table

**Lift Data Table**

**Mohawk Resources, Ltd.**

**Parallelogram Lift Model 50-35-Surface**

<table>
<thead>
<tr>
<th>Lift Unit Data</th>
<th>---</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Load Capacity (lbs)</td>
<td>50,000 (22680 kg)</td>
</tr>
<tr>
<td>Anchorage</td>
<td>---</td>
</tr>
<tr>
<td>Anchor Bolt Diameter (in.)</td>
<td>3/4 (19)</td>
</tr>
<tr>
<td>Total Number of Anchor Bolts</td>
<td>46</td>
</tr>
<tr>
<td>Bolt Pattern</td>
<td>See Anchor Details</td>
</tr>
<tr>
<td>Anchor Bolt Setting Torque</td>
<td>N/A - See Anchor Details</td>
</tr>
<tr>
<td>Minimum Embedment Length (in.)</td>
<td>3&quot; (76)</td>
</tr>
<tr>
<td>Minimum Concrete Thickness (in.)</td>
<td>6&quot; (152) on grade (see note 23)</td>
</tr>
<tr>
<td>Reservoir Capacity (gal)</td>
<td>50 gallons (114 liters)</td>
</tr>
<tr>
<td>Oil Type</td>
<td>LEXTRON III (ATF)</td>
</tr>
</tbody>
</table>

#### Electrical

- **Motor Horsepower**: 20 HP (15 kW)
- **208/230 V 3 PH**: 60 AMPERE
- **or 480 V 3 PH**: 30 AMPERE
- **Control Circuit Transformer 1000 VA**: 7.7 AMP
- **24 VDC Power Supply**: 4.8 AMP
- **Light Fixtures (Optional Lighting Kit)**: N/A
- **Shop Air**: N/A
- **Air Pressure (PSI)**: 85 to 100 PSI (586 to 690 Pa)
- **Air Volume - Lift (CFM/locks)**: 5 CFM (0.656 cm³/min)
- **Air Volume - Optional Rolling Jack (CFM)**: 25 CFM each (5.2 cm³/min)
- **Air Volume - Optional Shop Air Kit (CFM)**: 20 CFM (2.5 cm³/min)
- **Air Volume - Total Req'd Capacity (CFM)**: 50 CFM Minimum (6.4 cm³/min)

### REQUIRED MATERIAL LIST

**Materials shown on this list shall be used without substitution unless specifically approved in writing by Mohawk Resources, Ltd.**

<table>
<thead>
<tr>
<th>Item</th>
<th>QTY</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>1</td>
<td>Lockout/Tagout Disconnect Box</td>
<td>Per Local Electrical Codes</td>
</tr>
<tr>
<td>11*</td>
<td>AR</td>
<td>Leveling Shims</td>
<td>1/16&quot; (1.6), 1/8&quot; (3.2), 1/4&quot; (6.4) THK</td>
</tr>
<tr>
<td>10*</td>
<td>4B</td>
<td>3/4&quot; (19) x 9&quot; (127) Anchor Bolt Assembly</td>
<td>WEJ-IT Wedge Anchors</td>
</tr>
<tr>
<td>9</td>
<td>4</td>
<td>1&quot; (25.4) Seal Barrier</td>
<td>CRUDE - HINDS EY53</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>1-3/4&quot; (44) Reducer Bushing</td>
<td>CRUDE - HINDS EY42</td>
</tr>
<tr>
<td>7</td>
<td>4</td>
<td>1&quot; (25.4) SCH 40-90 Deg Elbow</td>
<td>CRUDE - HINDS EY13</td>
</tr>
<tr>
<td>6*</td>
<td>1</td>
<td>Junction Box (in Console)</td>
<td>Steel</td>
</tr>
<tr>
<td>5</td>
<td>AR</td>
<td>Sealite Flexible Conduit</td>
<td>Metal Core</td>
</tr>
<tr>
<td>4</td>
<td>AR</td>
<td>1&quot; (25.4) Rigid Conduit</td>
<td>Steel</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Filter/Lubricator/Regulator, Dryer Shutoff</td>
<td>Steel or PVC</td>
</tr>
<tr>
<td>2</td>
<td>AR</td>
<td>4&quot; (102) SCH 40 Street Elbow</td>
<td>Steel or PVC</td>
</tr>
<tr>
<td>1</td>
<td>AR</td>
<td>4&quot; (102) SCH 40 Pipe</td>
<td>Steel or PVC</td>
</tr>
</tbody>
</table>

* Items supplied by Mohawk with the lift unit

**Units**: Inch (mm) = Pounds (kg)
GENERAL NOTES

1. If the existing concrete floor has a documented minimum strength of not less than f'c = 4,000 psi (27.6 MPa) and is at least 6 inches (152) thick, then the floor system may be used without alterations. Generally, any floor area which is designed for vehicles of the same weight as the lift unit maximum capacity will be adequate for installation of the lift unit. Lift unit contact pressures will be equal to or less than the wheel contact pressures.

2. If the concrete floor system does not meet minimum specifications of Note 1 above, then a new concrete floor shall be installed to support the lift.

3. If the strength of an existing floor system is unknown or not documented, its strength should be determined. Core samples should be taken to determine the strength of the floor.

4. Any new concrete used for repairs or alterations to the floor system shall be at a minimum f'c = 4,000 psi (27.6 MPa), with heavy aggregate. For any new concrete it shall reach its full 28-day f'c strength before the lift and the anchor bolts are installed.

5. Any new concrete used for floor repairs or alterations shall have reinforcing as required for the soil conditions and vehicle load level. The reinforcing shall be determined by others. At a minimum two layers of 6" x 6" 10/10 welded wire fabric shall be used for any floor repairs. Also, floor repairs shall be dowelled into the existing floor system to prevent differential settlement.

6. For installation in existing structures, areas of the floor which are cut and removed for service conduit installations shall be repaired with concrete having minimum strength of not less than f'c = 4,000 psi (27.6 MPa), and is at least 6 inches (152) thick in the areas around and to the rear of the service legs.

7. For new construction, the areas of the floor along the lift runways should be deepened to 8 inches (203) for the floor anchor installation. Also, provide a minimum 9 inch (229) thickness around and to the rear of the service legs.

8. For new construction where in-floor radiant heating tubes are used, these tubes may be placed under the lift area provided that the slab is cast sufficiently thick. A minimum of 6 inches (152) clearance should be provided for anchor bolts and drilling allowance. The installer must be notified that radiant tubes are used such that care is taken not to over drill the depth of the anchors.

9. The support plates of the continuous base shall not be installed over a construction joint of the floor system. The support base plates shall not be placed nearer than 10 inches (254) to a construction joint or free edge of the floor slab.

10. A maximum of one 25 (254) anchor bolt shim thickness is permitted. Individual anchor bolt shims are available in a range of thicknesses.

11. Where more than one inch (254) of shim leveling is required full support plate contact shims are available at additional cost. The full contact shim plates shall then be accurately leveled using individual anchor bolt shims.

12. In certain cases the floor slab may have adequate strength to support the lift unit but may not be thick enough to provide the minimum embedment depth for the lift unit anchors. For this situation epoxy grouted anchor rods may be used, contact Mohawk Resources, Ltd. for written approval of epoxy grouted anchors and procedures and approved materials for installing the lift unit.

13. Except as described in Note 7, no embeded plumbing, tubes, conduits or other items, except the lift unit service legs, shall be closer than 16 inches (406) from any anchor bolt. Also, the service leg conduits shall be installed accurately in the locations shown in the plan and detail views to minimize the effect on the anchorage.

14. No anchor bolt shall be installed closer than 10 inches (254) from any free edge or floor joint.

15. Provide two, 4 inch (102) SCH 40 PVC pipe as a hydraulic/pneumatic service supply conduit running from the power unit to each service leg.

16. Provide 4, 1 inch (25.4) SCH 40 steel conduits as electrical service supply running from the power unit to the service legs. These conduits shall be installed as shown on the section views and must be installed according to applicable electrical codes.

17. Provide temporary caps for all conduits and embedded pipes. It is recommended to leave pull ropes in conduits for ease of lift installation.

18. The control console must be located in the vicinity of the lift. It should be placed far enough away from the lift to allow for activities around the lift. The enclosed drawing shows the console in a standard position. The control console may be located on either side and anywhere along the length of the lift. Any deviations from the enclosed drawings may require longer cables, hoses, conduit, etc. Additional expense to the purchaser.

19. The lift unit requires a high voltage power source. A lockout/tagout electrical disconnect box must be provided for the power source. The lockout/tagout disconnect box must be installed according to applicable electrical codes. This electrical disconnect is to be provided by others.

20. Provide one, 1 inch (25.4) SCH 40 rigid steel conduit as electrical service supply running from the building power source to the control console. This conduit is shown underground, alternatively it may be brought to the control panel overhead depending on customer preference. Provide a lockout/tagout electrical disconnect box within sight and as close to the control console as is practical. This electrical supply conduit and disconnect box must be installed according to local electrical code requirements.

21. Provide one, 1 inch (25.4) SCH 40 rigid steel conduit as a compressed air supply. This conduit is shown underground, alternatively it may be brought to the control panel overhead depending on customer preference. If brought overhead provide flex conduit connecting the terminal end of the conduit to the control console.

22. The lift unit requires clean dry compressed air at the pressure and volume shown on the lift unit data plate. If a dedicated air supply is not provided, provide a dedicated locking system only. A filter/lubricator/regulator, air dryer and shutoff valve must be provided for the lift unit to operate the optional accessories. The required volume of air shown in the lift unit data table recognizes that not more than one auxiliary air consumer will be used simultaneously.

23. All floor requirements are based on a concrete slab that is on grade (supported by soil). Any other type of installation involving a slab not on grade (i.e., slab supported by piers, second story slab, etc.) must be reviewed and analyzed by the building architect at the expense of the owner.