



PRE-PLACEMENT SAFETY CHECKLIST

Must fill out COMPLETELY

Customer Project Name

Location

Date of checklist completion Scheduled date of placement

Placing equipment size required

Overhead Hazards / Obstruction Present	YES	NO	NA
Power lines (20ft clearance required)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Underground Hazards Present/Identified	YES	NO	NA
Utilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Septic System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Excavation Hazards	YES	NO	NA
Adequate space to maintain 1 to 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil condition acceptable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional cribbing required (by contractor)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Pump Setup Location	YES	NO	NA
Setup footprint large enough	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Location large enough to unfold boom	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Safe Access for RM Trucks	YES	NO	NA
15' wide for one truck	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25' wide for two trucks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other obstacles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Traffic Control	YES	NO	NA
Lane closure (if yes, use diagram provided)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Signage, barricades	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drums	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cones	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Traffic direction (Trained Flagman)
Name (print)

Designated trained person to back RM Truck to pump
Name (print)

If any conditions change after this document has been signed, **notify** Cemstone Placing Dispatch Department **651-686-4274**

REMEMBERS



- Review hand signals with pump operators before placing concrete.
- Wear approved hard hats, gloves, boots and safety glasses when placing ready mixed concrete to prevent cement burns.
- **NOTE:** Placing equipment must wash out at the plant.

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PERMISSIBLE PRESSURES ON VARIOUS TYPES OF SOIL

Virgin ground	22 psi
Asphalt, min. 8" thick	29 psi
Compressed crushed stone	36 psi
Clay/silt soil, firm	43 psi
Mixed granular soil	51 psi
Firm compacted soil	58 psi
More compacted	72 psi
More compacted (e.g. class 5)	109 psi
Brittle weathered rock	145 psi

To calculate soil pressure:

Divide the force on the outrigger leg (from the decal) by the number of square inches of soil contact.

PSI=LOAD ÷ AREA

PSI=Pressure on the soil

Load=Force in pounds

Area=Square inches of soil contact

EXAMPLE: Load bearing capacity of the soil (8 inches of asphalt) = 29 PSI

Force on the soil by the outrigger leg = 40,000 Pounds (from decal)

Pad on outrigger = 12" x 12" (144 square inches)

$40,000 \div 144 = 278 \text{ PSI}$

In this example you could expect the outrigger to sink into the asphalt and cause a tip over. To prevent this, you install additional cribbing:

Additional cribbing = 40" x 40" (1600 square inches)

Now asphalt will support the outrigger.

HOSE WHIPPING



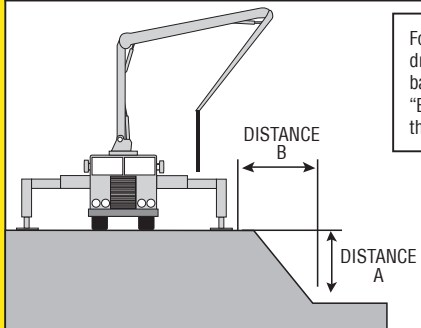
CAUTION

Remove everyone from the discharge area whenever the pump is first starting, restarting after moving, or if air has been introduced into the line.



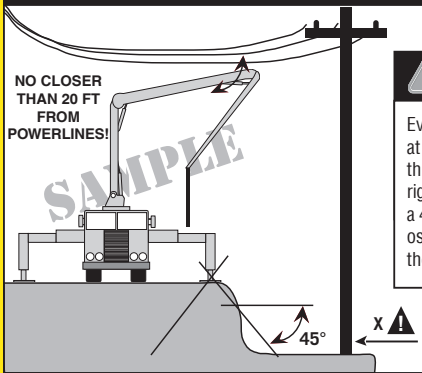
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THE 1 TO 1 RULE



For every 1 foot of vertical drop, stay back from the base edge 1 foot. (distance "B" must be equal or greater than distance "A")

OVERHEAD CONSIDERATIONS



WARNING

Even though the bottom is at a 1 to 1 ratio with the top, this cliff could collapse. Out-rigger force is transmitted at a 45 degree angle, and there is no material to support the force at point X.