

Date Revised:	March 2020	Overall Task Risk Rating: <b>B</b>
Description:	The forming and pouring of concrete curb and sidewalks.	
Location(s):	Construction Projects	
Associated Documents: Hazardous Agents WTS, Noise WTS, Traffic Control WTS, Equipment and Machinery Operation WTS, Night Work WTS		

## RED FLAGS (HOLD WORK UNTIL CORRECTED):

- Note:
- Do not commence work if there is inadequate Traffic Protection

## PERSONAL PROTECTIVE EQUIPMENT (CSA COMPLIANT)

Head Protection	Foot Protection	High-Vis Protection	Hearing Protection	Hand Protection	Eye Protection	Respiratory Protection	Skin Protection	Face Protection	Fall Protection
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Note:
- Additional PPE may be required based on project specific hazards - saw cutting will require eye, face and respiratory protection, hand protection when pouring and finishing concrete
  - The noise level exceeds 85 dB in the production area. Hearing protection should be worn during prolonged exposure
  - Workers must wear all PPE listed in the MSDS / SDS for the specific hazardous products that they are to handle

## SAFE WORK PRACTICES (SWP)

### General Concrete Work Practices:

- Start the work only when you are certain that you understand the work, the hazards and you have implemented the appropriate controls
- Unsafe conditions and situations must be reported to Foreman/Superintendents immediately (and stop work until the hazard is controlled)
- Never operate a curb machine at speeds which will cause ground personnel to work carelessly - if production requirements demand it, assign more personnel to the pouring operations
- Use the 'buddy system' and watch out for co-workers who may be unaware of a hazard or unsafe work activity
- Use three-point contact when mounting / dismounting machines

### Traffic Control:

- The Superintendent/Foreman will complete a Traffic Protection Plan and ensure that traffic protection measures are in place and in accordance with Ontario Traffic Manual Book 7 when workers have the potential to be endangered by vehicle traffic
- Workers will stay out the Path of Travel of vehicles and mobile equipment
- Workers and equipment operators will follow the Safe Limit of Approach practices (3m and 10m)
- Refer to the Traffic Control WTS for more information

### Signalers:

- Signalers are required for backing vehicles when the operator's view of the path of travel is obstructed

### Night Work:

- Ensure lighting is adequate for visibility of the workers and for the workers to complete the task at hand
- Lighting used to illuminate the worksite shall not be aimed at drivers (making it more difficult for them to see their intended path)
- Refer to Night Work WTS for more details

### Manual Material Handling:



# CONCRETE WORK (FORMING AND POURING)

- When possible, workers should rotate between repetitive job tasks as Repetitive Strain Injuries (RSI) can result from repeating the same actions / movements
- If an object or material appears to be awkward in shape or too heavy, it may require additional help to be handled safely
- When handling hazardous materials (i.e. cement - which is corrosive) use the controls (i.e. hand protection) appropriate for the task
- Refer to the applicable MSDS / SDS and the Manual Material Handling WTS for more information

### Inspections:

- A pre-operational safety inspection and Gazzola Daily Equipment Inspection Form is to be completed prior to using equipment
- Do not use defective equipment or machinery, inform your foreman / superintendent - they will arrange for the equipment to be serviced
- Before starting machines or equipment, ensure guards and safety devices are in place, adjusted and functioning properly

### Training:

- Employee Orientations (including roles, responsibilities, applicable workplace task standards, WHMIS, etc.)
- Only trained, authorized personnel are allowed to operate vehicles / machinery / equipment

### PPE:

- Workers on construction projects must wear, at a minimum, head, foot and high visibility protection. Eye protection as necessary
- The noise level exceeds 85 dB in the production area. Hearing protection should be worn during prolonged exposure
- Eye Glasses and Face Shield is required when completing tasks that may cause debris / objects to dislodge or become airborne
- All workers must wear the required personal protective equipment set out in applicable MSDS / SDS (i.e. hand protection)
- When saw cutting concrete where a full-face respirator to protect against inhalation of silica in dust
- At night, increase the visibility of workers (Leg Bands are provided for night work on construction projects)
- If machines are equipped with seatbelts, they must be worn by operators

JOB HAZARD AND RISK ANALYSIS		RISK RATING SYSTEM	A
			High risk of injury or equipment / property damage.
TASK HAZARDS		TASK CONTROLS	B
			Medium risk of injury or equipment / property damage.
			C
			Low risk of injury or equipment / property damage.
• Lack of, or Improper, Training and Education	• Machine Operators must be authorized and trained		C
• Poor Housekeeping	• Keep a clean working area, remove any tripping hazards • Ensure that tools are neatly and safely stowed on equipment • Equipment / vehicles should be cleared daily of any garbage so as not to obstruct brakes, accelerator pedals, etc.		C
• Lack of Spotter	• Signalers are required for backing vehicles when the operator's view of the path of travel is obstructed • Signallers are required when equipment is within the safe limits of approach to overhead powerlines		B
• Musculoskeletal disorders (MSD) & Repetitive Strain Injuries (RSI)	• If an object or material appears to be awkward in shape or too heavy, it may require additional help to be handled safely		C
• Heat Stress	• Refer to Hazardous Agents WTS • Drink water throughout the day (don't wait until you're thirsty) • If you think someone has heat stroke or heat exhaustion: call 911, inform the foreman / superintendent and begin First Aid		B
• Lack of / improper PPE	• Workers are to wear a respirator when saw cutting (as fine dust is being created) • Workers are to wear eye protection and gloves when using circular saws and concrete saws		C

<ul style="list-style-type: none"> <li>Lack of Inspection</li> </ul>	<ul style="list-style-type: none"> <li>A pre-operational safety inspection is to be completed</li> <li>Do not use defective equipment or machinery, inform your foreman / superintendent</li> </ul>	<b>C</b>
<ul style="list-style-type: none"> <li>Improper Chemical Use/Storage</li> </ul>	<ul style="list-style-type: none"> <li>Products such as diesel will be stored in appropriate containers and labelled indicating the contents</li> </ul>	<b>B</b>

## SAFE JOB PROCEDURES (SJP)

<p><b><u>Pre-Task Commencement:</u></b></p> <ol style="list-style-type: none"> <li>1. Gather and wear the required PPE for the task - on construction sites, all employees must wear head, foot and high visibility protection. Eye protection when necessary</li> <li>2. Ensure the site-specific workplace violence assessment is complete</li> <li>3. Complete the Daily GAZZ Card and review with all workers the shift's tasks with any associated hazards and control strategies</li> <li>4. Ensure all workers understand the GAZZ Card contents, and sign off in acknowledgement</li> <li>5. Ensure controls are in place prior to commencing work so risks are mitigated / eliminated</li> <li>6. Ensure adequate traffic control measures are in place prior to the start of work (refer to Traffic Control WTS for more detail)</li> <li>7. Determine what equipment / machinery / tools and material, are required for the completion of the task</li> <li>8. Inspect all equipment / machinery / tools prior to use and document the inspections on appropriate forms when required</li> <li>9. Ensure preventative maintenance activities have been completed where required, prior to using equipment / machinery / tools</li> <li>10. If equipment / machinery / tools are observed to be damaged, remove it from use and notify the Foreman / Superintendent</li> <li>11. Install fencing and hoarding where needed</li> <li>12. Locate utilities – Call Before You Dig</li> <li>13. Overhead hazards (i.e. powerlines) will be identified, signs posted and a signal person appointed as required</li> </ol>
<p><b><u>During Task:</u></b></p> <ol style="list-style-type: none"> <li>1. Traffic control to be present and spotters will be in place</li> <li>2. Set up forms in preparation to pour concrete</li> <li>3. When the ordered material arrives, coordination of truck off loading as required</li> <li>4. Mix concrete and cement if required for specified concrete pour</li> <li>5. Pour the concrete</li> <li>6. Smooth and finish the concrete using a variety of hand and power tools</li> </ol>
<p><b><u>Task Completion:</u></b></p> <ol style="list-style-type: none"> <li>1. Inspect equipment and report malfunctions to foreman / superintendents</li> <li>2. Ensure all equipment / machinery / tools are maintained and stored appropriately in the designated locations</li> <li>3. Implement any housekeeping or maintenance as required</li> </ol>