SWD

SOP No: SWD-010

SOP Title: Constructing Forms and

Pouring Concrete

SOP Number #SWD- 010

SOP Title Constructing Forms and Pouring Concrete

	NAME	TITLE	SIGNATURE	DATE
Author	Safety Team	Safety Department		
Reviewer	Upper Management	Safety Committee		
Authorizer				

SOP no.	Effective Date	Significant Changes	Revision #	Revision Date
010			0	

SOP Title: Constructing Forms and Pouring Concrete

1. PURPOSE

- This procedure is a guideline on the proper way of constructing forms and pour concrete. Employees at BBGCI will use this as a guide to help them perform their duty in a safe and productive manner.

- BBGCI will be in compliance with all government regulations as well as the regulations set forth by our clients.

2. INTRODUCTION

- BBGCI understands that all jobs are different. This SOP is set in place as a guideline to help employees understand the proper procedure to follow while constructing forms and pour concrete at a SWD facility.

3. SCOPE

- This procedure has been set in place for BBGCI personnel who will be performing operations for excavating pillar and pier supports for facility construction.

4. **DEFINITIONS**

- <u>Concrete</u> a composite material composed of coarse aggregate bonded together with a fluid cement that hardens over time.
- <u>Rebar</u> a steel bar or mesh of steel wires formed and used as a tension device in reinforcing concrete.
- <u>Galvanized Mesh</u> steel wires or expanded metal can be formed and used as a tension device in reinforcing concrete.
- <u>Forms</u> Premade or built on site structures of wood or other material to pour concrete in.
- <u>Line of Fire-</u> The path of a moving object that can potentially injure or the potential path of an object that may move
- <u>Buffer Zone-</u> The area where operation occurs that is deemed not safe for unauthorized personnel or equipment.

5. RESPONSIBILITIES

BBGCI Personnel

- Participate in tailgate meeting and JSEA.
- 2. Understand the scope of work prior to beginning task.
- 3. Maintain good communication with all employees involved in this process.
- 4. Properly inspect all tools before use.
- Follow safety policies and procedures as outlined in Concrete and Wood Work Safety Policy Section #13
- 6. Spotters shall guide Third party Concrete truck as needed.
- 7. Verify rebar and forms are tailored to client's specification.

SOP Title: Constructing Forms and Pouring Concrete

- 8. Assist concrete companies by directing the pour into the premade or constructed forms.
- 9. Work and finish concrete to client specifications (Vibrate and smooth)
- 10. Set anchor bolts for securing structures per client specification.

Note: Client may require Third party lab to take samples and test concrete mixture during pouring operation at a set yardage interval.

Qualified Spotter

- Attend/ participate in tailgate meeting and JSEA.
- Establish good communication with all supporting personnel involved with drilling operation from Third party company.
- Guide vessel/trucks to desired location and assist in pouring of concrete.
- Also guide backhoe, track hoe, or forklift if needed.
- Keep unauthorized personnel away from the work area at all times.
- Monitor for any unexpected hazards that could potentially endanger employees.

Note: If specified must wear reflective vest

6. SPECIFIC PROCEDURE

Pouring Concrete in Predrilled Hole

(Personnel Involved: BBGCI Personnel)

- 1. Properly complete all JSEA's, work permits if applicable from client for ground disturbance, and perform a safety tailgate meeting.
- 2. Establish the scope of work, and ensure everyone knows their specific job duty.
- 3. Properly inspect all tools to be used.
- 4. Take rebar and/or steel mesh to bend, cut, or form the internal structures for tension support of concrete. Or build wooden structure to pour concrete in.
- 5. After supports are constructed use appropriate mechanical lifting device to transport and install in predrilled hole or other forms. (Refer to Forklift or Skid Steer Operation SOP)
- 6. Spotter can guide the cement truck to the desired location of the pour.
- 7. With the assistance of the support personnel guide the cement chute as the cement truck pours concrete into the forms.
- 8. Support personnel can then begin finishing the concrete using power and hand tools.
- 9. After appropriate cure time, per client specifications and or industry standards, forms can be removed

SOP Title: Constructing Forms and

Pouring Concrete

7. JOB RELATED HAZARDS

Slips, Trips and Fall Hazards:

- Working and walking on uneven surfaces or rocks
- Nails and string line

Crushed by/Struck by concrete truck

High noise environment

Hand abrasions/cuts

- Tie rebar for concrete forms
- Struck by (hammer, cut offs, ect)

Eye Irritant

- Chemical
- Flying Debris

Muscle strains

Wildlife

Heat Stress

Pinch Points and Line of Fire Hazards:

- Using hand and power tools/ electric generator
- Cuts and scratches from cutting and forming rebar and steel mesh
- Moving equipment

8. REQUIRED PPE

- Hard hat
- Safety Glasses
- Steel Toe Boots/ Safety Toe Shoes
- Appropriate Gloves
- Reflective vest (If Specified
- Fire Resistant Clothing (Site Specific)
- Personal Gas Monitors (Site Specific)

9. FORMS/TEMPLATES TO BE USED

- JSEA
- Work Permits (If Required)
- Ground disturbance Permits (If Required)
- Client Required Forms

SOP Title: Constructing Forms and

Pouring Concrete

10. INTERNAL AND EXTERNAL REFERENCES

10.1 Internal References

Concrete and Wood Work Safety SOP Section #13

10.2 External References

11. CHANGE HISTORY