

 MOTHEO CONSTRUCTION GROUP CONSTRUCTION • CIVILS • WATER • ELECTRICAL • ACADEMY	METHOD STATEMENT TOPSOIL STRIPPING	Doc No :	TP – EMS 001
		Rev No :	00
		Rev Date :	30/11/2020

CONTRACT NAME	CONSTRUCTION OF A 66KV OVERHEAD POWERLINE FROM WORCESTER INDUSTRIAL AREA TO TRANSHEX SUBSTATION
CONTRACT NO.	16/3/3/B2/32/1021/23
LOCATION	WORCESTER
CLIENT	BREEDE VALLEY MUNICIPALITY
START DATE	

Rev	Date	Prepared by	Designation	Checked by: (Contractor's Signature)	Approved by: (Client signature)	Description of Modifications

Approval:

Signatories to sign this page in full as proof of approval

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1. PURPOSE

The purpose of this method statement is to set guidelines and methodology to be followed for the stripping of topsoil and the management of the stockpiles during the construction period.

2. SCOPE

This document covers the management of Topsoil during and after the construction activities.

3. REFERENCES

ISO14001:2015

4. ROLES AND RESPONSIBILITIES

Contractor's Project Manager shall be responsible for overall construction activities inclusive of ensuring that all safety and environmental measures are implemented.

Contractor's Construction Manager shall be responsible for co-ordination and supervision of construction activities and Construction groups and ensure that work is done as per specification and approved drawings and all safety and environmental measures are implemented.

Contractor's Designated Foreman/Supervisor shall be supervising closely the activity designated to them and ensure that all instructions are followed, and that safety and environmental procedures of the project is strictly adhered to.

Contractor's Safety Manager is responsible for the enforcement of safety and Environmental Procedure and ensures that the works are carried out in accordance with the company Environmental Protection Plan and the Health and Safety Plan.

Contractor's QC inspector is responsible for ensuring that the quality of work is according to contract specification and approved drawing.

Main tasks and associated responsibilities are as follows:

- Clearing & topsoil removal
- Earthworks foreman / grader operator

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5. REQUIREMENTS

Equipment:

D7 Dozer
Wheeled Loader
Tipper Trucks

6. METHOD

Stripping of Topsoil:

- The first step before the stripping of topsoil takes place is to ensure that the Works is correctly staked out by the surveyor.
- This will ensure that no Topsoil is removed that is not required for construction activities.
- Once the area is staked out the clearing will take place with the dozer.
- Stripping of Topsoil will take place to a depth of 150mm or to a level at which there is a clear division between Topsoil and sub soils. Minimum clearing will however be 150mm.
- When stripping topsoil from sensitive areas such as wetlands and riverine areas ensure as far as possible that minimal Topsoil has to be disturbed e.g. do not strip the entire reserve area.

Stockpiling of Topsoil:

- When clearing Topsoil for site establishment the material should be stockpiled in windrows along the boundaries of the site enclosure.
- Ensure that there is sufficient space between the fence line of the site and the Topsoil windrow to act as a fire break.
- Topsoil stripped for the Works will be stockpiled in windrows separate from material excavated from the Works.
- In order to eliminate confusion Topsoil windrows must be on the side of the works where no vehicle movement takes place and excavated material on the opposite side of the works.
- Following this practice will ensure little to no compaction of the Topsoil.
- In areas where there is not sufficient place to place the Topsoil in windrows on the works, the Topsoil will be loaded and transported to a designated temporary Topsoil stockpile area.
- No Topsoil stockpile will exceed 2m in height as this will result in compaction of the Topsoil impacting on the seed bed / vegetation of the material.

Maintenance of Topsoil Stockpiles:

- Topsoil stockpiles should be allowed to re-vegetate as soon as possible in order to minimize the risk of erosion.
- Stormwater must be diverted away from the Topsoil windrows and stockpiles to prevent erosion. This will be achieved by means of v-drains and mitre drains across the works to steer the water away into vegetated areas. Contouring over the works will also be effective.
- Alien invasive plant species must be identified as a priority on windrow and stockpiles and cleared.
- Any signs of erosion will be managed as soon as it is identified.

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Re-use of Topsoil:

- On completion of works on designated sections of the works to the approval of the engineers the topsoil must be spread over the cleared area.
- Ensure that work is completed as vehicle and plant movement must be prevented over rehabilitated areas.
- Ensure that when making use of stockpiled Topsoil, the soil used is from the same area to ensure that vegetation types from different area along the route are not mixed.