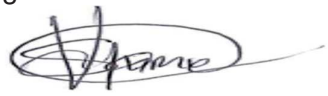
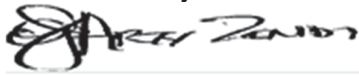




**Site Specific Health and Safety Specification in terms of
2014 Construction Regulations 5.1(b)**

| | |
|--------------------------------------|--|
| Document Title | BRA 453/10/25 |
| Client | eThekweni Municipality- Road Provision |
| Project Name | UPGRADING – GRAVEL TO SURFACE OF MSINSI AVENUE, WARD 45, KWA MASHU |
| Contract Number | 1R-33158 |
| Revision | 00 |
| Date | 27 October 2025 |
| Internal Reference no. | BRA 453/10/2025 |
| Compiled by (Safety officer) | Name and surname: Siziwe Chiliza Signature:  Date: 27/10/25 |
| Reviewed by (Manager: Safety & Risk) | Name and surname: Arty Zondi Signature:  Date: 27/10/2025 |

UPGRADING – GRAVEL TO SURFACE OF MSINSI AVENUE, WARD 45, KWA MASHU

Roadworks is to upgrade existing 187m length of gravel track / roadway to 5m hardening surface with possible sidewalk and further 90m length of gravel track to 3.5m width. This will involve earthworks, stormwater upgrade, Kerbing, concrete surfacing, and retaining walls / gabions.

TABLE OF CONTENTS (refer to Baseline Risk Assessment attached)

1. Project Title
2. Executive Summary
3. Scope of Works
 - Description of works
 - Description of Site and Access
4. Baseline Risk Assessment
 - Introduction
 - Purpose
 - Scope
 - Abbreviations, Acronym or Definition
5. Risk Profile
6. References
7. Public safety

1 PROJECT TITLE

Upgrade and widening and widening of Upgrading – Gravel To Surface of Msinsi Avenue, Ward 45, Kwa Mashu.

The Assessment was conducted on **(INSERT DATE)**, during normal working hours.

3 EXECUTIVE SUMMARIES

The Occupational Health and Safety Act of 1993, and its relevant regulations require Employers to conduct a Baseline Risk Assessment prior to the work being performed.

This assessment and observations were made at the above site under the conditions which prevailed on the date of the assessment. Detailed conclusions are given in the relevant sections of this report.

4 SCOPE OF WORK

The works consist of the following:

- Site Clearance, General Clearance of the area of works.
- Relocation of services and other works
- Concrete Works
- Earthworks and Excavation for Roadworks and
- Drainage
- Stormwater
- Kerbing

5 BASELINE RISK ASSESSMENT

- a) **INTRODUCTION:** In accordance with the Occupational Health and Safety Act, (Act 85 of 1993) the Legislator places specific requirements on an Employer. One of these is prescribed in Section 8(i) of the Act where it requires the Employer to ascertain the risks and dangers which may occur within the workplace or section of the workplace and then goes on to establish working procedures or practices.
- b) **PURPOSE:** This is conducted to create a benchmark of the potential risks that apply to the whole project or business operation.
- c) **SCOPE:** This assessment could be approached on a site, regional or national level concerning any facet of the business operation or process or activity.
- d) **ABBREVIATIONS, ACRONYMS AND DEFINITIONS**

| ABBREVIATION, ACRONYM OR DEFINITION | MEANING |
|-------------------------------------|---|
| Risk | Uncertain future events that can influence the achievement of the company's objective. Chance of loss |
| Exposure | Is a condition or practice which involves the employee being subjected to the Hazard or Danger while being normally unprotected |
| Likelihood or Probability | (inevitable to almost impossible) the Frequency of the exposure (constant to rarely) being one of the parameters |
| Consequence or Severity | This could be either having a financial, injury and or illness outcome |
| Risk Ranking | There are three stages namely: IDETIFYING the RISK: - in terms of the hazard, threats EVALUATING: - the hazard, threats and or exposures identified to establish the potential magnitude of the RISK involved VALUE JUDGEMENT or APPRAISING: - the acceptability and potential impact as well as the magnitude of the hazards, exposure and evaluating the outcome on the business, operations and or the health and safety of people and processes |

| ABREVIATION, ACRONYM OR DEFINITION | MEANING |
|------------------------------------|--|
| Risk Rating | Equals = Severity + Frequency + Exposure |
| Baseline Risk Assessment | This is conducted to create a benchmark of the potential risks that apply to the whole project or business operation. |
| Issue based | This is normally focused at operational activities, processes, systems and functions and focuses on identifying the risks within a certain task, process or activity |
| Continuous Risk Assessment | The processes, systems and activities monitored on an ongoing basis |
| Hazard | A chemical, physical, social or political condition that has the potential of causing damage or any kind of harm to people, property the environment or business continuity. |
| OHS Act | Occupational Health and Safety Act, Act 85 of 1993 |
| Task based Risk Assessment | The appointed Contractor develops a Risk Assessment based on the Clients Baseline and project specific activities |
| Severity / Consequence | The degree of harm, the potential severity of the injuries or ill health and or the number of people potentially affected |
| Exposure | Chance that a person or persons will be harmed during the exposure period |
| Frequency | A measure of the rate of occurrence of an event expressed as the number of occurrences in a given time |

| ABREVIATION, ACRONYM OR DEFINITION | MEANING |
|---|---|
| Frequency | A measure of the rate of occurrence of an event expressed as the number of occurrences in a given time |
| Intolerable Risk | Risk is intolerable and cannot be justified on any grounds |
| Significant Risk | Risk in which benefit outweighs cost |
| Moderate Risk | Risk is if cost of reduction would exceed improvement |
| Tolerable Risk | A Risk that has been reduced to a level that can be endured by the organization having regard to its legal obligations and its own Safety and Health Policy |
| Residual Risk | The risk that remain after taking into account the effect of the existing controls that have been applied |
| Average Daily Traffic (ADT) | The average daily traffic count is used as a method to determine how many vehicles travel on a road on a given day |
| Bollard | Rigid posts that can be arranged in a line to close a road or path to vehicles above a certain width |
| Flag person | The workers who carry these signs provide traffic control in the construction zone. |
| Median | A median is a barrier, constructed of concrete, asphalt or landscaping that separates two directions of traffic |
| New Jersey Barrier | A jersey barrier is a concrete barrier that acts as a traffic control device to separate traffic flow |
| PPE | Personal protective equipment e.g. gloves, hard hat boots etc. |

| | |
|-------------------|--|
| Shoulder | Reserved area by the verge of a road, generally it is kept clear of all traffic |
| Sub - Base | Is the layer between the top and the selected layers and the bottom |
| Base | Is the layer immediately below the surfacing and has to meet stringent requirements regarding material quantities and compaction |

| ABBREVIATION, ACRONYM OR DEFINITION | MEANING |
|---|--|
| Cut | Consist of all excavations from the existing ground line to the roadbed and includes the side (table) drains |
| Fill | Consist of imported material above the roadbed |
| Side drain | Run parallel to the road |
| Culvert | Conveys water safely from the upper side of the road to the lower side |

6.1 RISK ASSESSMENT METHODOLOGY

All Risk identified during Risk Identification has to be assessed for significance in terms of probability of the Risk event to occur and the impact of the event.

Ranking of the Risk can be based on a simple scale ranging from:

- Very likely to almost certainly
- Actual numerical probabilities can be used
- Risk that are ranking High receives highest priority

The approach and process:

- a) Identify the risk / hazards associated with the work activities
- b) Assess the risk in terms of severity, likelihood of occurring and controllability
- c) Evaluate the risks / hazards
- d) Determine the level of control
- e) Implement controls
- f) Monitor the effectiveness of controls

6.2 RISK ESTIMATION AND EVALUATION

RISK CLASSIFICATION USING A RISK SCORE TECHNIQUE

| | |
|--|-----|
| Exposure (E) How frequently does the hazardous event occur | |
| Risk classification | |
| Continuously | 10 |
| Frequently (daily) | 6 |
| Occasionally (weekly) | 3 |
| Unusually (monthly) | 2 |
| Rarely (few a year) | 1 |
| | |
| Probability (P) The probability of a loss when the hazardous event does occur | |
| Risk classification | |
| Frequent (happens often) | 10 |
| Probable (quite possible) | 6 |
| Occasional (unusual, but possible) | 3 |
| Remotely possible (has happened somewhere) | 1 |
| Improbable (practically impossible) | 0.5 |
| | |

| | | |
|--|--|-----|
| Severity (S) Consequences of the hazardous event | | |
| Risk classification | | |
| Catastrophic many fatalities; or interruption of longer than 2 weeks; or asset or environmental damage (or both) exceeding R100m... | | 100 |
| Disaster (few fatalities; or interruption between one and 2 weeks; or asset or environmental damage (or both) exceeding R10m) ... | | 40 |
| Very serious (one fatality; or interruption of 6 days; or asset or environmental damage (or both) exceeding R100,000..... | | 7 |
| Important (temporary disability; or interruption between 6 and 24 hours; or damage exceeding R10,000 | | 3 |
| Noticeable (first aid needed; or interruption of less than 6 hours; damage exceeding R1000) | | 1 |
| Risk classification (Risk score = E x P x S) | | |
| Risk score | Risk classification | |
| Over 400-----5 | Very high risk – discontinue operation or activity | |
| 200 to 400 ----- 4 | High risk – immediate correction needed | |
| 70 to 200----- 3 | Substantial risk – correction needed | |
| 20 to 70----- 2 | Possible risk – attention needed | |
| Under 20 ----- 1 | Risk accepted | |

| | |
|---|--|
| 5 | |
| 4 | |
| 3 | |
| 2 | |
| 1 | |

ETHEKWINI MUNICIPALITY

Occupational Health & Safety Unit

CONTRACT NUMBER : 1R – 33158**BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS****WORK PROCESS CATEGORY: ACCESS TO THE SITE**

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|--|--|---|-----------------|---|---|---------------------|------------|-----------|--|
| | | | | E | P | S | | | | |
| 1 | Accessing the site using construction vehicles | Transportation of staff to and from the site | Construction vehicles could crash into other vehicles / buildings resulting in damage to equipment or employees being injured | 6 | 6 | 7 | 252 | High | 4 | The Construction Manager must develop a Driving Policy which incorporates the use of cell phones whilst driving and adherence to speed limits. The Contract Manager must ensure all construction |

| | | | | | | | | | | |
|---|---|---|--|---|---|---|-----|-----------|---|---|
| | | | | | | | | | | vehicles and staff comply to CR23 |
| 2 | Delivering of equipment to the site | Pedestrian /children using public road | Vehicles/trucks could crash into pedestrians walking along the roadside resulting in critical injuries or fatalities | 6 | 6 | 7 | 252 | High Risk | 4 | Construction Manager to ensure the truck is deemed roadworthy. Ensure the Environmental Management Plan is adhered to and the vehicle is equipped with a spill control kit. |

| | | | | | | | | | | |
|---|--|---------------------|---|---|---|---|----|---------------|---|---|
| 3 | | Oil or petrol spill | Oil and petrol spill could cause ground contamination | 6 | 6 | 1 | 36 | Possible Risk | 2 | Construction Manager to ensure the truck is deemed roadworthy. Ensure the Environmental Management Plan is adhered to and the vehicle is equipped with a spill control kit. |
|---|--|---------------------|---|---|---|---|----|---------------|---|---|

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|----------|------------------|------|-----------------|---------------------|------------|-----------|-----------------|
|----------|----------|------------------|------|-----------------|---------------------|------------|-----------|-----------------|

WORK PROCESS CATEGORY: **SITE ESTABLISHMENT**

| | | | | E | P | S | | | | |
|---|------------------------------|---|---|---|---|---|-----|------------------|---|---|
| 2 | Ablutions for male / females | Inadequate Welfare Facilities Inadequate or insufficient Toilet Facilities | Inadequate or insufficient Ablution Facilities may result in employees using areas not designated for the use thereof Unhygienic condition | 6 | 6 | 3 | 108 | Substantial Risk | 3 | CR 28 1 per30 NBR prescribe chemical toilets for construction site. Sufficient showers and changing facilities for both male and female |

| | | | | | | | | | | |
|---|-----------------------------|---|--|---|---|---|-----|------|---|---|
| 3 | Sheltered eating facilities | Unsafe positioning of ablution and sheltered eating areas | Unsafe positioning of ablutions and sheltered eating areas may result in vehicles veering of the road and into the facilities and resulting in critical injuries | 6 | 6 | 7 | 252 | High | 4 | Refuse bins with lids provided. Facilities clean and hygienic |
|---|-----------------------------|---|--|---|---|---|-----|------|---|---|

| | | | | | | | | | | |
|--|---------------------------|--------|---|--|--|--|--|--|--|------------------------------------|
| | Clearing of the site area | Snakes | The presence of the snakes may result in snake bites causing fatalities | | | | | | | Snake awareness training developed |
|--|---------------------------|--------|---|--|--|--|--|--|--|------------------------------------|

| | | | | | | | | | | |
|---|--|---|------------------------|---|---|---|-----|------------------|---|---|
| 4 | Maintenance workshop Secure / safe storage of materials / plant and equipment | Incorrect stacking of parts and spares could cause tripping hazards | Slips, trips and falls | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Adequately ventilated ignition free Emergency shower / eye wash provided |
| | | | | | | | | | | |

| | | | | | | | | | | |
|---|--|---|--|---|---|---|-----|------------------|---|---|
| 6 | Site clearing using Earthmoving equipment/ machinery | Protected vegetation | Damage to protected vegetation could result in damage to the ecosystem | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Construction Manager must ensure that protected vegetation is clearly demarcated and the Environmental Plan is adhered to |
| | Site induction | Injuries to person not familiar to site | Property damage Sustainable injuries | 6 | 6 | 3 | 54 | Substantial Risk | 3 | Construction Manager to ensure all on site is inducted |

| | | | | | | | | | | |
|---|---|---|--|---|---|---|-----|------------------|---|---|
| 7 | The storage /usage of flammable liquid/gasses and combustible materials | The incorrect storage of flammable liquids/gasses and combustible materials | The incorrect storage could lead to Environmental spillages | | | | | | | The Construction Manager must ensure that they adhere to the Client H&S Specification with regards to combustible substances. |
| 8 | Vehicle leaving / entering the site | Traffic disruption, injury to people | Damage to property | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Competent operators/ drivers, use of flag person |
| 9 | Unsafe stacking and storage practices | Collapse of stored materials | Collapse of stored materials may result in injury of personnel | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Construction Manager must ensure that they adhere to stacking and storage principles as contained in the |

| | | | | | | | | | | |
|----|--|----------------------------------|---|---|---|---|-----|------------------|---|---|
| | | | | | | | | | | General Safety Regulations |
| 10 | Installation of Temporary Electrical Installations | Exposed Electrical Cables/ Wires | Contact with exposed electrical cables may result in electrocution | 6 | 6 | 7 | 252 | High | 4 | CoC, appointments, registers, competent person |
| 11 | Housekeeping | Slips, trips and falls | Tripping and falling on superfluous materials can cause cuts on hands, injury to feet | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Construction Manager must ensure that waste is removed periodically, and work areas kept clean at all times |

| | | | | | | | | | | |
|----|--|---|--|---|---|---|-----|------------------|---|--|
| 11 | Fencing | Access to unauthorized persons | Injury to persons | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Construction manager to put system of control in place. No unauthorized entry signs to be posted and access controlled |
| 12 | Essential emergency equipment Firefighting equipment First Aid Boxes Drinking water | Not having the essential services on hand | Health / loss of property through fire | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Construction manager to ensure these requirements are on site from the day site is established |

WORK PROCESS CATEGORY: TRAFFIC ACCOMODATION

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|--|---|--|-----------------|---|---|---------------------|------------------|-----------|---|
| | | | | E | P | S | | | | |
| 13 | Setting up of temporary road works signage | Placing of incorrect signage at locations | Misinformation may cause drivers to become unable to discern what to do resulting in accidents and irate members of the public | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Construction Manager must ensure that a suitable site specific Traffic Management Plan is developed and implemented, and a competent Traffic Safety Officer is appointed for the duration of the contract. All temporary road traffic signage must comply with the SARTSM |

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

| | | | | | | | | | | |
|----|--|---|---|----|---|---|-----|-----------------|---|--|
| 14 | | Handling and placement of signage without wearing the correct PPE | Handling of signage without gloves, reflective vests and safety | 3 | 3 | 1 | 9 | Risk Accepted d | 1 | The Construction Manager must ensure that a task specific risk assessment for PPE |
| | | | boots may result in injuries | | | | | | | control is implemented |
| 15 | Public vehicular and pedestrian traffic travelling on the public road during construction work | Workers injured by passing traffic | Collision of public vehicles and workers | 10 | 6 | 7 | 420 | Very High | 5 | The Construction Manager must ensure that a competent Traffic Safety Officer is appointed and a site specific Traffic Management Plan is implemented |

| | | | | | | | | | | |
|----|--|---|--|---|---|---|-----|------|---|---|
| 16 | | Limited or no advanced warning area may result in accidents | Collision of public vehicles and workers | 6 | 6 | 7 | 252 | High | 4 | The Traffic Safety Officer must ensure that temporary road works signage is laid out as per the SARTSM and approved Traffic Management Plan |
|----|--|---|--|---|---|---|-----|------|---|---|

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: MATERIALS DELIVERY TO THE SITE

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|----------|--|---|-----------------|---|---|---------------------|---------------|-----------|---|
| | | | | E | P | S | | | | |
| 17 | | incompetent Operators | The use of incompetent operators may result in accidents | 6 | 6 | 7 | 252 | High | 4 | The Construction Manager must verify that the Operators are deemed competent to operate the Tippers and are medically fit |
| 18 | | Reversing into public vehicles or property | Reversing into vehicles and property resulting in damages | 6 | 6 | 3 | 108 | Substant Risk | 3 | The Contract Manager must ensure that each driver is accompanied by a competent banks man and designated safe areas for offloading demarcated |

| | | | | | | | | | | |
|----|------------------------|--------------------------------------|--|---|---|---|-----|---------------|---|---|
| 19 | | Uneven ground, soft soil, | Damage to plant and equipment as well as crushing injuries or fatalities | 6 | 6 | 7 | 252 | High | 4 | The Construction Manager must ensure that each driver is accompanied by a competent banks man when working in high risk areas |
| 20 | Cement / concrete dust | Inhalation. Contact with skin , eyes | Severe irritation, burns, long term damage | 6 | 6 | 3 | 108 | Substant Risk | 3 | Wash immediately if coming into contact |

| | | | | | | | | | | |
|----|--|-----------------------------|--|---|---|---|-----|------------------|---|---|
| 21 | Loading / off loading the truck | Incorrect slings being used | Property damage and serious injury or fatality | 6 | 6 | 7 | 252 | High | 4 | Rigging to be done by a trained and competent rigger and the task to be supervised by the supervisor |
| 22 | Aggregate / sand and other materials delivered | Uneven ground, soft soil, | Damage to plant and equipment | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Construction Manager must assess steep gradients on foot before plant is moved onto the site to determine if the area is safe |
| 23 | Manual handling Ergonomics | Incorrect posture | Back strain Skeletal damage | 3 | 6 | 3 | 54 | Possible Risk | 2 | Employees to be trained in the correct lifting technique |

| | | | | | | | | | | |
|----|------------------------------|-----------------------------------|----------------------------|----|---|---|-----|------------------|---|--|
| 24 | Mechanical handling | Employee being struck | Serious injury | 3 | 6 | 3 | 198 | Substantial Risk | 3 | Constant supervision |
| 25 | Lifting / lowering operation | Employee being struck by the load | Serious injury Fatality | 10 | 6 | 7 | 420 | Very High | 5 | Rigging to be done by a trained and competent rigger and the task to be supervised by the supervisor |

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: **EXCAVATION**

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|---|---|---|-----------------|---|---|---------------------|------------------|-----------|---|
| | | | | E | P | S | | | | |
| 26 | Transporting of material to and from the site | Defective tipper trucks, excavators and front-end loaders | The use of defective plant /equipment may result in accidents | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Contraction Manager must verify that all Tipper trucks utilized on site has a recent service inspection register in place and is signed off by the relevant Technical Manager |

| | | | | | | | | | | |
|----|-------------------|---------------------------------------|--|---|---|---|-----|------|---|--|
| 27 | Manual excavation | Open Excavation >1.5m | Excavations > 1.5m caving in may result in multiple fatalities | 6 | 6 | 7 | 252 | High | 4 | Daily check of the excavation by the appointed excavation supervisor and recorded in a register |
| 28 | | Unauthorized entry | Unauthorized access to site may result in critical injury to people | 6 | 6 | 7 | 252 | High | 4 | Daily check of the excavation by the appointed excavation supervisor and recorded in a register |
| 29 | | The use of Hand tools (picks, spades) | An employee using a pick could strike the employee in front/rear resulting in injury | 6 | 6 | 7 | 252 | High | 4 | The Construction Manager must ensure that a SWP is developed implemented and that all employees are instructed in the content of the site specific risk assessment |
| 30 | | | | 6 | 6 | 7 | 252 | High | 4 | Proper PPE to be issued |

| | | | | | | | | | | |
|----|--|--|--|---|---|---|-----|------|---|--|
| 31 | | Working in natural elements, sun, rain, glare & wind | Prolonged exposure to extreme high temperatures may result in heat stroke | | | | | | | |
| | | Fast moving vehicles | Passing traffic could crash into employees working in an existing excavation | 6 | 6 | 7 | 252 | High | 4 | The Construction Manager must ensure that a SWP is developed implemented and that all employees are instructed in the content of the site specific risk assessment |

| | | | | | | | | | | |
|----|-----------------------|----------------------------|--|---|---|---|-----|-----------------|---|--|
| 32 | | Poor Ergonomics | Poor Ergonomics may result in muscular skeletal injuries | 3 | 6 | 3 | 54 | Possible Risk | 2 | The Construction Manager must ensure that a SWP is developed implemented and that all employees are instructed in the content of the site specific risk assessment |
| 33 | Mechanical Excavation | The use of Defective Plant | The use of defective plant | 6 | 6 | 3 | 108 | Sustantial Risk | 3 | The Construction Manager must verify that all plant utilized |
| | | | may result in accidents | | | | | | | on site has a recent service inspection register in place and signed off by the relevant technical manager |

| | | | | | | | | | | |
|----|--|-------------------------------|--|---|---|---|-----|---------------|---|---|
| 34 | | untrained operator | The use of an untrained operator may result in accidents | 6 | 6 | 7 | 252 | High | 4 | The Construction Manager must verify that the Operator is deemed competent to operate that specific plant and is medically fit The Safety Officer must take cognizance of the requirements of the Driven Machinery Regulations 2015 |
| 35 | | Public / Contractor interface | Public accessing the work area could result in injuries | 6 | 6 | 3 | 108 | Sustanti Risk | 3 | The Construction Supervisor must ensure all work are adequately barricaded / cordoned off to prevent member of the public from entering |

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: **EARTHWORKS**

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|-------------------------------|--|--|-----------------|---|---|---------------------|------------------|-----------|---|
| | | | | E | P | S | | | | |
| 36 | Layer works and Asphalt layer | Traffic accidents on site when transporting materials. Reversing of trucks and mobile plant Dust inhalation High temperature of product | Damage to property Respiratory failure Burns | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Speed limit to be adhered to Enforced reverse alarms to be fitted Application of dust masks |

| | | | | | | | | | | |
|----|-------------|---|--|---|---|---|-----|------|---|---|
| 37 | Backfilling | <p>Suitable access and egress in and out of excavations deeper than 1 meter not provided.</p> <p>Collapse of excavation during backfilling operations</p> | <p>Injury to persons</p> <p>Injury to persons Fatality</p> | 6 | 6 | 7 | 252 | High | 4 | <p>Competent excavation supervisor to ensure that access is provided, employees informed of requirements</p> <p>Only authorized</p> |
|----|-------------|---|--|---|---|---|-----|------|---|---|

DRIVING / OPERATING OF CONSTRUCTION VEHICLES AND MOBILE PLANT

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|-----------------|--|---------------------------------------|-----------------|---|---|---------------------|------------|-----------|---|
| | | | | E | P | S | | | | |
| 37 | Excavator | Unauthorized opr incompetent person operating the machine | Injury to persons, damage to property | 6 | 6 | 7 | 252 | High | 4 | Only competent operator to be appointed |
| 38 | Bomag roller | Unauthorized opr incompetent person operating the machine | Injury to persons, damage to property | 6 | 6 | 7 | 252 | High | 4 | Only competent operator to be appointed |
| 39 | Plate compactor | Operator working with plate compactor not trained, running over workers feet | Foot injury and bruises | 6 | 6 | 7 | 252 | High | 4 | Only competent operator to be appointed |

| | | | | | | | | | | |
|----|--------------------------------|--|---------------------------------------|---|---|---|-----|------------------|---|--|
| 40 | Front end loader | Unauthorized operator incompetent person operating the machine | Injury to persons, damage to property | 6 | 6 | 7 | 252 | High | 4 | |
| 41 | Concrete breaker (Jack hammer) | Noise | Noise Induced hearing Loss | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Employee to make use of SABS approved hearing protection, supervisor to ensure that the correct P.P.E is used. Task to be supervised by a competent supervisor |

WORKPLACE ENVIRONMENT , HEALTH AND HYGIENE

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|---|------------------|----------------------------|-----------------|---|---|---------------------|------------------|-----------|--|
| | | | | E | P | S | | | | |
| 42 | Working in close proximity to moving machinery Exposure to noise | Noise | Noise Induced hearing Loss | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Employee to make use of SABS approved hearing protection, supervisor to ensure that the correct P.P.E is used. Task to be supervised by a competent supervisor |

| | | | | | | | | | | |
|----|--|----------------------------------|--------------------------------|---|---|---|-----|------------------|---|--|
| 43 | Exposure to vibration | Vibration | White finger | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Supervisor to rotate employees and allow for frequent breaks |
| 44 | Protection against dehydration and heat exhaustion | Dehydration/collapse | Health consequences to workers | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Measures in place to prevent heat exhaustion in heat stress problem areas |
| 45 | Wet / cold condition | Affecting ability to work safely | Injury to workers | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Provide rain wear / wellingtons where necessary Provide protection against the cold |

| | | | | | | | | | | |
|----|-------------------------------|--|--|---|---|---|-----|------------------|---|---|
| 46 | Hazardous chemical substances | Contact with skin/ eyes Inhalation or indigestion | Skin irritation, burns or infections Could cause loss in eyesight | 6 | 6 | 3 | 108 | Substantial Risk | 3 | All substances identified and list available. MSD's Substances stored safely |
| 47 | Dust | Inhalation / respiratory problems | Respiratory failure | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Application of dust masks |

PUBLIC SAFETY

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|-------------|---|---------------------------------|--------------------|--------------------|---|---|------------------------|------------------|--------------|---|
| | | | | E | P | S | | | | |
| 48 | Public exposed to the nature of the construction activities | Emission of HCS, dust and noise | Health risk impact | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Communication with neighboring businesses is critical. Health risk must be communicated to all employees. Dust, noise generated out of the construction work must be managed. |

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: **PUBLIC SAFETY, SECURITY MEASURES AND EMERGENCY PREPAREDNESS**

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|------------------------------|---|--|-----------------|---|---|---------------------|------------------|-----------|---|
| | | | | E | P | S | | | | |
| 49 | Notices and signs | Appropriate signage not displayed | Person /s not aware of the danger Injury / serious injury | 6 | 6 | 7 | 252 | High | 4 | No unauthorized Entry General warning signs |
| 50 | Emergency Preparedness | No Emergency Plan in place | Person/s unprepared to respond to the emergency at hand | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Emergency contact numbers displayed with designated person |
| 51 | Emergency Drill & Evacuation | No training No implementation Planning done | Person/s unprepared to respond to the emergency at hand | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Adequate number of employees trained in the use of fire equipment |

| | | | | | | | | | | |
|----|--|---|--|---|---|---|-----|------------------|---|---|
| 52 | Development and implementation of an Emergency Management Plan | Failure to have a basic site-specific Emergency Management Plan | Failure to have a basic, site specific Emergency Management Plan may result in injury and damage to property | 6 | 6 | 3 | 108 | Substant Risk | 3 | The Construction Manager must ensure that a site specific Emergency Management Plan is developed for implementation |
| 53 | | Workers not trained in the Emergency Plan | Workers not trained in the Emergency Plan may result in their inability to respond to Emergencies | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Construction Manager must ensure that those workers are adequately and regularly trained to respond to Emergencies. |

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

| | | | | | | | | | | |
|----|--|---|---|---|---|---|-----|------|---|---|
| 54 | | Insufficient or no Emergency equipment or personnel | Insufficient or no Emergency equipment or personnel on site may result in Emergencies being critical | 6 | 6 | 7 | 252 | High | 4 | The Construction Manager must ensure that a suitable number of employees are appointed to the Emergency Team and that First Aid boxes, First Aiders, Fire Team members and any other equipment as identified during the risk assessment process is on site. |
|----|--|---|---|---|---|---|-----|------|---|---|

WORK PROCESS CATEGORY: **COMMUNITY MANAGEMENT**

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|---------------------------|--|--|-----------------|---|---|---------------------|------------------|-----------|--|
| | | | | E | P | S | | | | |
| 55 | Poor liaison with the CLO | Failure to adequately monitor and manage the multi faced social issues | Failure to manage social issues could result in violent protests and | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Construction Manager must ensure that a Community Liaison Officer (CLO) and project steering |
| | | | injury to employees | | | | | | | Committee is appointed to manage social issues |

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

| | | | | | | | | | | |
|----|--|--|--|---|---|---|-----|------|---|--|
| 56 | | Roads blocked off due to community protest | Construction trucks and vehicles could crash into barricades resulting in damage to equipment or severe injuries | 6 | 6 | 7 | 252 | High | 4 | The Contraction Manager must ensure that close communication is kept with the local authorities and the appointed Community Liaison Officer to ensure that all personnel accessing the site are timeously alerted. |
|----|--|--|--|---|---|---|-----|------|---|--|

WORK PROCESS CATEGORY: **SUB – CONTRACTOR MANAGEMENT**

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|------------------------------|---|--|-----------------|---|---|---------------------|------------------|-----------|---|
| | | | | E | P | S | | | | |
| 57 | No proper management control | Failure to adequately assess Sub Contractors S.H.E Management System before work commences and at regular intervals | Failure to manage Sub Contractors may result in injury and | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Safety Officer must ensure that the appointed Sub Contractors S.H.E system is audited monthly and on site |
| | | | noncompliance to Legislation | | | | | | | activities supervised or monitored |

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

| | | | | | | | | | | |
|----|---------------------------------------|---|--------------------------|---|---|---|-----|------------------|---|--|
| 58 | Inadequate supervision | Inadequate Supervision may result in a high level of employee unsafe behavior | Injury / property damage | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Construction Manager must ensure that Sub Contractors have adequate competent Supervision on site at all times |
| 59 | Utilizing incompetent Sub-Contractors | Utilizing incompetent Sub Contractors may result in accidents | | 6 | 6 | 7 | 252 | High | 4 | The Construction Manager must be reasonably satisfied that the Sub Contractors intended to be appointed have the necessary competencies and resources to carry out the work safely |

| | | | | | | | | | | |
|----|---------------------------------------|---|--|---|---|---|-----|------|---|--|
| 60 | Utilizing incompetent Sub-Contractors | Utilizing incompetent Sub Contractors may result in damage to the Environment | | 6 | 6 | 7 | 252 | High | 4 | The Construction Manager must be reasonably satisfied that the Sub Contractors intended to be appointed have the necessary competencies and resources to carry out the work safely |
|----|---------------------------------------|---|--|---|---|---|-----|------|---|--|

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: **CONSTRUCTION ACTIVITIES**

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|-----------------------|----------------------------|--|-----------------|---|---|---------------------|------------------|-----------|--|
| | | | | E | P | S | | | | |
| 61 | Brickwork at manholes | Repetitive strain injuries | Poor ergonomics may result in muscular skeletal injuries | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Construction Manager must ensure that a SWP is developed implemented and that all employees are instructed in the content of this SWP. |

| | | | | | | | | | | |
|----|------------------------------|---|------------------------------|---|---|---|-----|---------------|---|---|
| 62 | Mixing mortar | Repetitive strain injuries | Loading / unloading material | 3 | 6 | 3 | 54 | Possible Risk | 2 | The Construction Manager must ensure that a SWP is developed implemented about safe lifting and loading procedures. |
| 63 | Clean, grout and seal joints | Pressure equipment dislodge from source | Injury to persons | 6 | 6 | 7 | 252 | High | | |
| | | | | | | | | | | |

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

| | | | | | | | | | | |
|----|--|-----------------|--|---|---|---|----|---------------|---|---|
| 64 | Removal of asphalt inter layer using conventional method | Poor Ergonomics | Poor Ergonomics may result in muscular skeletal injuries | 3 | 6 | 3 | 54 | Possible Risk | 2 | The Construction Manager must ensure that workers are trained in the risk of ergonomically injuries and methods to mitigate the risks |
| 65 | Clear and grub pavement areas | Poor Ergonomics | Poor Ergonomics may result in muscular skeletal injuries | 3 | 6 | 3 | 54 | Possible Risk | 2 | The construction Manager must ensure that workers are trained in the risk of ergonomically |

| | | | | | | | | | | |
|----|--|---|---|---|---|---|-----|-----------|---|---|
| | | | | | | | | | | injuries and methods to mitigate the risks |
| 66 | Placing of, plastic pipes for underground services | Operating of TLB or Excavator in close proximity to workers and public vehicles | Critical injuries caused by TLB/ Excavator striking workers or TLB rolling over | 6 | 6 | 7 | 252 | High Risk | 4 | The Construction Manager must ensure that the TLB/ Excavator Operator utilize a banks man |
| 67 | | Using TLB for lifting pipes or other material | Critical injuries caused by the TLB or Excavator striking workers or rolling over | 6 | 6 | 7 | 252 | High Risk | 4 | The Construction Manager must ensure that the TLB/ Excavator has been modified or designed to be used as lifting equipment and the load test certificates provided. |

| | | | | | | | | | | |
|----|--|---|---|---|---|---|-----|------------------|---|---|
| 68 | | Incorrect use of defective hand tools | The incorrect and or defective hand tools could result in non-disabling/ first aid case i.e. the hand or eyes | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Construction Supervisors must ensure that all hand tools are inspected monthly and recorded in an applicable register with all defective hand tools removed from the site |
| 69 | | Incorrect use of defective electrical tools | The incorrect and or defective hand tools could result in non-disabling/ first aid case i.e. the hand or eyes | 6 | 6 | 3 | 108 | Substantial Risk | 3 | The Construction Supervisors must ensure that all portable electrical tools are inspected monthly and recorded in an applicable register with all defective equipment removed from the site |

| | | | | | | | | | | |
|----|------------------------|-----------------|--|---|---|---|----|---------------|---|---|
| 70 | Construction of drains | Poor Ergonomics | Poor Ergonomics may result in muscular | 3 | 6 | 3 | 54 | Possible Risk | 2 | The Construction Manager must ensure that workers are |
| | | | skeletal injuries | | | | | | | trained in the risk of ergonomically injuries and methods to mitigate the risks |

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: **CONSTRUCTION ACTIVITIES**

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|----------------------------|-----------------------------|---|-----------------|---|---|---------------------|------------|-----------|---|
| | | | | E | P | S | | | | |
| 71 | Pouring Ready Mix concrete | Concrete truck tipping over | Concrete truck tipping over could result in serious injury to the operator and workers close by | 6 | 6 | 7 | 252 | High | 4 | The Construction Manager must ensure that safe access to the pouring platform is created before the truck arrives on the site |

| | | | | | | | | | | |
|----|------------------------|--|---|---|---|---|-----|------|---|---|
| 73 | Excavation of trenches | Excavation collapse | Plant striking operatives Public falling into it | 6 | 6 | 7 | 252 | High | 4 | Suitable protection to be installed around the excavation |
| 74 | Use of hand tools | Defective tools | Injury to person | 6 | 6 | 7 | 252 | High | 4 | Visual check before tool is used. Tool to be stored if not in use |
| 75 | Waste removal | Falling materials grab striking persons/ property | Injury to persons /damage to property | 6 | 6 | 7 | 252 | High | 4 | Only use grab or excavator, when operator has clear view of surroundings. No person allowed within the working range of the grab or excavator |

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: **CONSTRUCTION ACTIVITIES**

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|---|----------------------------------|--------------------|-----------------|---|---|---------------------|------------------|-----------|---|
| | | | | E | P | S | | | | |
| 76 | Relocation of water Sewer and Electrical cables | Disruption of essential services | Community effected | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Notification of supply service being disrupted to be communicated well in advance |

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

WORK PROCESS CATEGORY: CONSTRUCTION ACTIVITIES

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|----------------|--------------------------|-----------------------------|-----------------|---|---|---------------------|------------|-----------|---|
| | | | | E | P | S | | | | |
| 78 | Kerb inlet | Work zone not demarcated | Persons/s struck by vehicle | 6 | 6 | 7 | 252 | High | 4 | Traffic Management Plan to be fully implemented |
| 79 | Cut off drains | Work zone not demarcated | Persons/s struck by vehicle | 6 | 6 | 7 | 252 | High | 4 | Traffic Management Plan to be fully implemented |

| | | | | | | | | | | |
|----|-----------------------------|---------------------------|-----------------------------|---|---|---|-----|------|---|---|
| 80 | Inlet and outlet structures | Work zone not demarcated | Persons/s struck by vehicle | 6 | 6 | 7 | 252 | High | 4 | Traffic Management Plan to be fully implemented |
| 81 | Applying tack | Contamination | Eye injury | 6 | 6 | 7 | 252 | High | 4 | Close supervision at all times |
| 82 | Disposal of waste | Contamination | illness | 6 | 6 | 7 | 252 | High | 4 | Close supervision at all times |
| 83 | Working with hot asphalt | Heat stress / Burns | Injury to persons | 6 | 6 | 7 | 252 | High | 4 | Close supervision at all times |
| 84 | Cleaning tools with solvent | Use of chemical substance | Injury to persons | 6 | 6 | 7 | 252 | High | 4 | Close supervision at all times |

WORK PROCESS CATEGORY: **ROAD PATCHING**

| RISK REF | ACTIVITY | POTENTIAL HAZARD | RISK | RISK EVALUATION | | | RISK SCORE ExPxS | RISK LEVEL | RISK RANK | CONTROL MEASURE |
|----------|---|--|--|-----------------|---|---|---------------------|------------------|-----------|---|
| | | | | E | P | S | | | | |
| 85 | Use of jackhammer to open patch | Crushing and pinching Slip, trip, falls in loose material | Incompetent employee working the jackhammer can cause injury to body parts | 6 | 6 | 3 | 108 | Substantial Risk | 3 | Employees using the jackhammer need to be trained by competent person |
| 86 | Filling of the road patch with cold mix or approved mix | Manual handling Back injury | Poor work performance. Back sprains and strains | 6 | 6 | 7 | 252 | High | 4 | Handling of asphalt bags need to be done by two employees. Training must be done to employees concerning manual handling |

| | | | | | | | | | | |
|----|--------------------------------------|-----------|---|---|---|---|-----|------|---|--|
| 87 | Compaction with small ride on roller | vibration | Operator losing control and hitting employees | 6 | 6 | 7 | 252 | High | 4 | All employees need to be trained not to stand close to moving plant. They need to stand 20m cleared of the work zone |
|----|--------------------------------------|-----------|---|---|---|---|-----|------|---|--|

8 REFERENCE

REFERENCE DOCUMENT

Occupational Health and Safety Act, Act 85 of 1993

Environmental Act

Construction Regulations 2014

120

1500

1200

700

1 in 50



TW336



TR104



TD4



**Site Specific Health and Safety Specification in terms of 2014
Construction Regulations 5.1(b)**


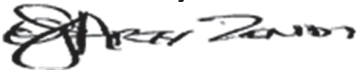
| | |
|--------------------------------------|--|
| Document Title | Site Specific Health and Safety Specification |
| Client | eThekweni Municipality- Road Provision |
| Project Name | UPGRADING – GRAVEL TO SURFACE OF Mnisi Avenue, WARD 45, KWA MASHU |
| Contract Number | 1R-33158 |
| Revision | 00 |
| Date | 27 October 2025 |
| Internal Reference no. | SSHSS 452/10/2025 |
| Compiled by (Safety officer) | Name and surname: Siziwe Chiliza  Signature: Date: 27/10/25 |
| Reviewed by (Manager: Safety & Risk) | Name and surname: Arty Zondi  Signature: Date: 27/10/2025 |

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Annexure A. (Medical Certificate of Fitness) Annexure 3

1. DEFINITIONS

For the purpose of this Construction Health and Safety Specification, all definitions in the Occupational Health and Safety Act and Regulations, the abbreviations and the definitions given hereunder shall apply; where definitions may overlap, the most onerous requirement shall apply:

| Acronym or Definition | Meaning |
|--------------------------------|--|
| Agent | Refer to the Agent appointed by the Client to act on its behalf, and who is appointed in writing |
| CHSS | Refers to this document as the Construction Health and Safety Specification |
| Client | Refers to eThekweni Municipality |
| COIDA | Means Compensation for Occupational Injuries and Diseases Act 130 of 1993 |
| Construction Site | Means the premises and grounds where construction work is being performed |
| Principal Contractor | Means an employer appointed by the Client to perform construction works |
| CR | Refers to the Construction Regulations of 2014 |
| DSTI | Refer to a documented daily safe task compiled and issued by a contractor and trained to all relevant employees |
| H&S | Refers to Health and Safety |
| Medical Certificate of Fitness | Means a valid medical certificate of fitness issued by an occupational medicine practitioner, such medical testing shall be relevant to the risks of the construction work on the construction site and shall conform to the Occupational Health and Safety Act and Regulations and to the requirement of this Health and Safety Specification |
| Method Statement | Refer to a document detailing the key activities to be performed in order to reduce as reasonably as practicable the hazards identified in the Risk Assessment |
| OHSA | Refer to the Occupational Health and Safety Act |
| Regulations | Refer to the Regulations stipulated in the OHSA |
| S | Refer to a section in the OHSA |
| SACPCMP | Means the South African Council for the Project and Construction Management Professions |
| Sub-Contractor | Means an employer appointed by the Principal Contractor |
| RRM | Road Reservation maintenance work |
| SADC | Southern Africa Development Community |

2. PROJECT DESCRIPTION

2.1 Description of Site and Access

Description of Works

Roadworks is to upgrade existing 187m length of gravel track / roadway to 5m hardening surface with possible sidewalk and further 90m length of gravel track to 3.5m width. This will involve earthworks, stormwater upgrade, Kerbing, concrete surfacing, and retaining walls / gabions

3. LIMITATIONS OF LIABILITY

The Client or its Agent shall not be responsible for any acts or omissions of any contractor which may directly or indirectly result from the application of the CHSS or any project specific version thereof.

All contractors must ensure that articles, work, equipment, machinery, plant and work practices are, always compliant to the legal requirements as these apply.

The Client or its Agent shall limit its responsibility to the application of the Construction Regulations Clients Requirements only.

The Principal Contractor shall enter into a Mandatory Agreement with the Client, as defined in Section 37(2) of the Occupational Health and Safety Act.

The Principal Contractor shall ensure that each contractor appointed by the Principal Contractor and each sub-contractor appointed by a contractor also into a Mandatory Agreement with the Principal Contractor, as defined in Section 37(2) of the Occupational Health and Safety Act. These agreements shall be included in the Principal Contractor's H&S File on site and be valid for the duration of the contractors' work on the construction site.

4. PURPOSE OF THE CONSTRUCTION H&S SPECIFICATION

This document defines the minimum management requirement that is to be implemented by the Principal Contractor/Contractor for the management of Health and Safety on any eThekweni Municipality project.

The aim of this document is to present the health and safety aspects that need to be controlled and managed on the project.

This Health and Safety specification identifies and encompasses the working behaviours and safe work practices that are expected of all employees, Vendors and Contractors, Sub-Contractors and Visitors, engaged on construction site.

Providing a guideline to comply with best Health & Safety practices and the Occupational Health and Safety Act 85/1993 as amended, including reference to applicable legislative requirement.

5. PROJECT HEALTH AND SAFETY COST

The Client must ensure that potential Principal Contractor submitting tenders have made adequate provision for the cost of health and safety measures.
The Principal Contractor shall allow in their cost provision for complying with the requirements of this CHSS; resources for the following H&S controls shall be in place.

| | H&S cost item | Description |
|----|------------------------------------|---|
| 1. | Construction Safety Officer. | Construction safety officer is required to ensure that the health and safety plan is implemented on site. |
| 2. | Medical certificate of fitness. | Medical examination of all employees and certification of fitness by an Occupational Medicine Practitioner |
| 3. | Personal Protective Equipment. | PPE to be provided as per risk exposure, including but not limited to: respiratory, adapted hearing protection, adapted hand protection, adapted eye and head protection. |
| 4. | Public protection and barricading. | To reduce risk exposure to the employees and members of the public. |
| 5. | Training and competency. | Occupational Health and Safety Training in accordance with the skills matrix included in the approved H&S Plan. |
| 6. | Dust mitigation. | To reduce dust exposure to the employees and the public |
| 7. | Employee facilities. | Refer to the Facilities Regulations (drinking water, changing facility, personal lockers, and wash facilities, eating facilities. |
| 8. | First Aiders. | Standard first aid training. |
| 9. | Other. | Items not indicated in the Specification |

6. SCOPE AND DESCRIPTION OF WORK

Scope of Works

List of activities to be undertaken

- Site Clearance, General Clearance of the area of works.
- Relocation of services and other works
- Concrete Works
- Earthworks and Excavation for Roadworks and
- Drainage
- Stormwater
- Kerbing

7. COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES ACT

The Principal Contractor, each contractor and each sub-contractor shall submit proof of Good Standing with COIDA Commissioner, or a Mutual Association licensed in terms of Section 30 of COIDA, prior to starting any work on site.

A copy of the Letter of Good Standing with COIDA Commissioner must be included in the H&S Plan of each contractor working on the site and must remain updated for the duration of the construction work.

8. APPLICATION FOR CONSTRUCTION WORK PERMIT

The Principal Contractor shall assist the Client in compiling the evidence required by the Department of Labor for the issuing of the Construction Work Permit.

The Principal Contractor shall ensure that the H&S Plan presented for approvals includes:

- Evidence that the Principal Contractor made adequate provision for the cost of H&S measures
- Evidence that the Principal Contractor has the necessary competencies and resources to carry out the construction work safely.
- A copy of the Letter of appointment of the Construction Manager in terms of CR 8(1) + proof of his qualification, competence and registration where applicable.
- Proof of the registration of the Principal Contractors safety officer with the SACPCMP.

The Principal Contractor shall display the work permit number at the main site entrance. This display must be conspicuous to the satisfaction of the Department of Labor. The permit must be notified.

The construction work can only commence once the construction work permit is issued by the Department of Labor.

9. NOTIFICATION OF CONSTRUCTION WORK

The Principal Contractor must at least 7 days before that work is to be carried out notify the provincial director in writing in a form like Annexure 2 if the intended construction work will—

Include excavation work.

Include working at a height where there is risk of falling.

Include the demolition of a structure; or

Include the use of explosives to perform construction work.

A contractor who intends to carry out construction work that involves construction of a single storey dwelling for a client who is going to reside in such dwelling upon completion, must at least 7 days before that work is to be carried out notify the provincial director in writing in a form similar to Annexure 2

10. MANAGEMENT AND SUPERVISION OF CONSTRUCTION WORK

10.1 Construction Manager

The Principal Contractor shall appoint a full-time competent person as the construction manager with the duty of managing all construction on the site including the duty of ensuring occupational health and safety compliance.

The Construction Manager must demonstrate competence in relation to work being performed and the ability to manage construction work which may include making all statutory appointments in terms of health and safety.

10.2. Construction Safety Officer

The Principal Contractor shall appoint a competent Construction Safety Officer for the construction work. The Construction Safety Officer shall be full/part time on the construction site for this project.

The Safety Officer shall be registered with the South African Council for the Projects and Construction Management Professions. Proof of competence and registration of the appointed Construction Safety Officer must be included in the H&S Plan.

10.3. Construction Supervisor

A Construction Manager must appoint construction supervisors responsible for construction activities and ensuring occupational health and safety compliance on the construction site.

A contractor must, upon having considered the size of the project, in writing appoint one or more competent employees for different sections thereof to assist the construction supervisor contemplated in sub regulation (7), and every such employee has, to the extent clearly defined by the contractor in the letter of appointment, the same duties as the construction supervisor: Provided that the designation of any such employee does not relieve the construction supervisor of any personal accountability for failing in his or her supervisory duties in terms of this regulation.

11. PRINCIPAL CONTRACTOR'S HEALTH AND SAFETY PLAN

The Principal Contractor shall submit a suitable, sufficiently documented and coherent specific health and safety plan based on the Client documented Health and Safety Specification. The health and safety plan shall include but not limited to the following

- Introduction.
- Project Details.
- Full Description of the works.
- Objectives and Targets for the Project.
- Implementation of the Client Health and Safety Specification.
- Management of construction and supervision.
- Compensation of Occupational Injuries and Diseases Act 130 of 1993 (COIDA).
- Notification of construction work.
- Sub-Contractor and Supplier Management.
- Hazard Identification, Risk Assessment & Risk Control.
- Monitoring and review plan.

- Written Safe Working Procedures.
- Excavation method statements.
- Working at height on the existing structure.
- Water Environments.
- Incident Management & First Aid.
- Emergency Evacuation Plan/Procedures.
- Fire Prevention & Protection on Construction Site.
- Public/Pedestrian Safety.
- PPE Provision and Maintenance on Construction Site.
- Health & Safety Signage on Construction Site.
- Construction Vehicles and Mobile Plants.
- Use and Temporary Storage of Flammable Liquids on Construction Site
- Hand & Electrical Tool Management.
- Construction Employees Facilities.
- Health & Safety Policies.
- Health and safety training & competencies.
- Housekeeping and general safeguarding on construction Site.
- Hazardous chemicals.
- Site barricading.
- Traffic accommodation on site.
- Induction.
- Medicals certificates of fitness.
- Site Security.
- Stacking and storage on construction site.
- Heat stress.
- Transportation of employees to different sites.
- Provision of drinking water.
- Working on a stepladder during trimming of trees.
- Manual handling of heavy objects.
- Refuelling, maintenance of brush cutters on site.
- Removal of waste on construction site.
- Internal and external Audit.
- Site inspection and keeping of records/registers.
- Toolbox talks.

12. HAZARD IDENTIFICATION AND RISK ASSESSMENT

The Principal Contractor shall before commencement of any construction and during such construction works have risk assessments performed by appointed competent person in writing which forms part of the health and safety plan to be applied.

The provisions of Regulation 9 of the Construction Regulations shall be followed in every detail.

13. HEALTH AND SAFETY FILE

The Client must discuss and negotiate with a Principal Contractor the content of the Health and Safety Plan and thereafter finally approve the Health and Safety plan for implementation. The recommended Health and Safety file shall include the following:

- Copy of Construction Work Permit (Where applicable)
- Notification of Construction Work
- Client Health & Safety Specification
- SHE Policy
- Principal Contractor Health & Safety Plan
- Updated letter of good standing with Commissioner
- Section 37.2 Mandatory Agreement
- Contractor appointment letter in terms of CR 5.1(k)
- Organogram as per appointments
- Legal appointment letters and competencies (Construction Manager, Construction Supervisor, Traffic/Construction Safety Officer, Risk assessor, Incident Investigator, First aider, Fire equipment Inspector, Construction Vehicle and Mobile Plant, Excavation Supervisor and Health and safety representative) etc.
- Risk Assessments as per scope of work
- Written Safe Working Procedures as per scope of work
- Applicable Inspection Registers
- Incident/Accident Management Procedure/Policy, Register and relevant forms (Annexure 1, Wcl2) etc.
- Award letter from SCM
- Latest copy of OHS Act and other relevant regulations
-
- Health and Safety Induction programme
- Site Emergency Evacuation Plan
- Key Personnel contact numbers
- Site Safety Rules
- Medical Records – Medical Fitness Certificate
- Toolbox Talks Programme
- Material Safety Data Sheets and Hazardous Chemical Register.
- First Aid box and competent first aider
- Traffic management plan
- Subcontractor appointments and the subcontractors list.
- Site SHE internal and external audit records.
- Personal protective equipment issuing and maintenance records.

14. CLOSE-OUT CONSOLIDATED HEALTH AND SAFETY FILE

The Principal Contractor shall compile a consolidated H&S file and hand it over to the Business Unit, OHS Unit will conduct a project close out using the appropriate checklist before the completion of the project.

15. INDUCTION AND HEALTH AND SAFETY AWARENESS

The Principal Contractor shall ensure that all employees have gone through the induction training before commencing duties on site.

The Principal Contractor must ensure that all visitors to the construction undergo health and safety induction pertaining hazards prevalent on the site and ensure that visitors have

appropriate PPE. The Principal Contractor must always, on his or her construction site keep records of health and safety induction training.

15.1 Health and Safety Training

The Principal Contractor shall ensure that employees are trained in health and safety measures this shall include but not limited to:

- Written Safe Working Procedures
- Risk Assessments
- Health and Safety Plan and other policies
- Emergency Management Plan
- Incident management procedures
- Environmental management procedures
- Induction
- Toolbox Talks
- MSDS
- Traffic management plan

16. INCIDENTS MANAGEMENT & FIRST AID

All incidents and accidents as per Section of the Act must be reported, recorded and investigated as per General Administration Regulation 8 & 9

Where a fatality or permanent disabling injury or incident occurs on the Construction site, the Client must ensure that the Principal Contractor provides the Provincial Director with a report contemplated in Section 24 of the Act and the report includes the measures that the Principal Contractor intends to implement to ensure a safe construction site.

17. HEALTH AND SAFETY AUDITS

The Client must ensure that periodic health and safety audits are conducted at intervals mutually agreed upon between the Principal Contractor and the Client at least every 30 days, the copy of the health and safety audit report must be provided to the Principal Contractor within seven days after the audit.

18. FIRE PRECAUTIONS ON CONSTRUCTION SITE

The Principal Contractor shall provide suitable fire extinguishers which shall be serviced regularly in accordance with the manufacture's recommendations.

Safety signs shall be prominently displayed in all areas where fire extinguishers are located. The Principal Contractor shall arrange for training of the relevant personnel, in the use of fire extinguishers.

The provisions of Regulation 29 of the Construction Regulations as well as Regulation 9 of Environmental Regulation for Workplaces shall be followed in every detail.

19. ELECTRICAL INSTALLATIONS AND MACHINERY ON CONSTRUCTION SITE.

The Principal Contractor shall designate a competent electrician in writing who shall control all electrical installations.

All temporary electrical installations used by the contractor are inspected at least once a week by a competent person and the inspection findings are recorded in a register kept on the construction site.

All Electrical machinery is inspected by the authorized operator or user on daily basis using a relevant checklist prior to use and the inspection findings are recorded in a register kept on the construction site.

The provisions of Regulation 5, 6 & 9 of the Electrical Installation Regulations shall be followed in every detail.

20. PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

The Principal Contractor shall ensure that every employee is issued with, and wears SANS-approved P.P.E. as per the conducted risk assessment.

Failure to use protective equipment as per the risk assessment shall require disciplinary intervention and this process shall be documented in the induction.

No employer shall in respect of anything which he is in terms of this Act required to provide or to do in the interest of health or safety of an employee, make any reductions from any employee's remuneration or require or permit any employee to make any payment to him or to any other person.

The provisions of Regulation 2 of the General Safety Regulations shall be followed in every detail.

21. OCCUPATIONAL HEALTH AND SAFETY SIGNAGE

The Principal Contractor shall erect and maintain quality safety signage

The signage shall include but is not limited to:

- Traffic control signs.
- Emergency telephone number(s)
- PPE to be worn at the site
- When falling objects may occur, relevant barricading and warning signs must be erected

22. DUTIES OF PRINCIPAL CONTRACTORS AND CONTRACTORS

Contractors and sub-contractors must be given a copy of the H&S specification and any additional specification issued by the Client and shall comply with these specifications integrally. All employers working on the site shall conform to the standard in the CHSS. All the duties of the Principal Contractor in this CHSS equally apply, in full, to contractors of such Principal Contractor and to sub-contractors of such contractors.

The Principal Contractor shall ensure that the comprehensive and updated list of all the contractors and sub-contractors on site includes:

- A reference to the agreements between the parties, including all contractors Section 37(2) agreements with the Principal Contractor
- The type of work being done
- The date of the approval of the H&S Plan
- The date of expiry of the COIDA certificate of good standing
- Appointments and competencies.
- Medical certification of employees.
- The date of the last monthly audit.

The provisions of Regulation 7 of the Construction Regulations shall be followed in every detail.

23. EXCAVATION WORK

- The Principal Contractor must ensure that all excavation work is carried out under the supervision of a competent person who has been appointed in writing for that purpose.
- The Principal Contractor shall take cognisance of the geotechnical study pertaining to the conditions of the construction site and must plan all excavation work in accordance with the recommendations of the professional engineer.
- The Principal Contractor must ensure that every excavation, including all bracing and shoring, is inspected daily, prior to the commencement of each shift and that no person enters the excavation or works in a risk zone until the excavation is assessed and declared safe.
- All excavations must be left open for the minimum of time required and those that are left open on the site must be protected by a barrier or a fence of at least one meter in height as close to the excavation as is practicable. The protective barrier or fence must adequately prevent persons from falling into the excavation and barrier taping is not sufficient for this purpose
- Excavation shoring and bracing, if required shall be designed by a designer appointed in writing who shall inspect and approve the installed shoring and bracing
- Where persons work, inspect or test excavations, warning signs must be in place next to an excavation

The provisions of Regulation 13 of the Construction Regulations shall be followed in every detail.

24. PUBLIC HEALTH AND SAFETY

The site shall always be secured to prevent unauthorized access of people to construction risk areas.

Appropriate health and safety signage shall be posted and access control to sites must be exercised via a single access point.

All members entering the site must indicate in what capacity they are visiting the site.

The access point must be designed and constructed to allow for temporary parking, entry of construction vehicles, entry of personnel transport vehicles and entry of individual workers and other people.

The principal Contractor shall ensure that each person visiting the site shall be inducted to the site and such abridged induction shall outline the hazards from on-site activities and the precautions to be observed to avoid or minimize those risks

Visitors must only enter when accompanied by a responsible person designated by the Principal Contractor.

25. CONSTRUCTION EMPLOYEES FACILITIES

The Principal Contractor shall provide at or within reasonable access of every construction site, the following clean, hygienic and maintained facilities:

- (a) Shower facilities after consultation with the employees or employees representatives, or at least one shower facility for every 15 persons.
- (b) at least one sanitary facility for each sex and for every 30 workers.
- (c) changing facilities for each sex; and
- (d) sheltered eating areas.

The provisions of Regulation 2, 3, 4, 6, 7, 9 of the Facilities Regulations shall be followed in every detail.

26. STORAGE AND USE OF FLAMMABLE LIQUIDS

No flammable substances must be stored on site unless these are stored in a flammable store or cabinet approved by the Municipal Chief Fire Officer, no other materials shall be stored in the flammable store or cabinet

Where required the H&S Plan shall include a method statement detailing the safe use, storage, decanting and spill controls for all flammable liquids used and stored on site.

The provisions of Regulation 25 of the Construction Regulations shall be followed in every detail.

27. HAZARDOUS CHEMICAL SUBSTANCE

With respect to hazardous chemical substances used, the contractor shall ensure that:

- All MSDS are included in the H&S File
- A HCS risk assessment is included in the H&S Plan
- The safe use, storage, emergency procedures and safe disposal of hazardous substances are addressed in a method statement(s) included in the H&S Plan.
- Proof of competency and signed letters of appointment of the person responsible for chemical handling is included in the H&S File.

Any hazardous chemical substance intended to be applied on site during the project (i.e. after approval of the H&S Plan) shall be subject to an issue-based risk assessment and method statement which must be presented to the Client Agent prior to the substance being introduced on site.

The provisions of Regulation 3, 5, 7, 8, 9, 9A, 10, 11, 14, 15 of the Hazardous Chemical Substances Regulations shall be followed in every detail.

28. HOUSEKEEPING AND GENERAL SAFEGUARDING ON CONSTRUCTION SITE

The Principal Contractor shall appoint a person responsible for general housekeeping and stacking and storage of materials and equipment on the entire site.

The provisions of Regulation 27 of the Construction Regulations shall be followed in every detail.

29. CONSTRUCTION MEDICALS

A Principal Contractor must ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an Occupational Health Practitioner in the form of Annexure 3.

30. STACKING AND STORAGE ON CONSTRUCTION SITE

A Principal Contractor must, in addition to compliance with the provisions for the stacking of articles in the General Safety Regulations, 2003, ensure that—

A competent person is appointed in writing with the duty of supervising all stacking and storage on a construction site.

Adequate storage areas are provided.

There are demarcated storage areas; and storage areas are kept neat and under control.

31. INDUCTION AND TOOLBOX PROGRAMME

No contractor may allow or permit any employee or person to enter any site, unless that employee or person has undergone health and safety induction training pertaining to the hazards prevalent on the site at the time of entry.

A contractor must ensure that all visitors to a construction site undergo health and safety induction pertaining to the hazards prevalent on the site and must ensure that such visitors have the necessary personal protective equipment.

A contractor must always keep on his or her construction site records of the health and safety induction training contemplated in sub regulation (6) and such records must be made available on request to an inspector, the client, the client's agent or the principal contractor.

The Principal Contractor must ensure that the toolbox talks are conducted on weekly basis and the training records kept on the safety file

32. CONTINGENCY/EMERGENCY PLAN, PROCEDURE AND CONTACT NUMBERS

Principal Contractor shall prepare an emergency procedure which will address any emergency that is likely to occur on a project site.

The Emergency Preparedness Plan deals with the emergency as fast and efficiently as possible, to minimise loss of life, the protection of property and the maintenance of services

necessary for the wellbeing of employees. The plan shall include valid local emergency contact numbers and must be easily accessible.

33. TRAFFIC MANAGEMENT PLAN.

PRIMARY RESPONSIBILITIES

PRINCIPAL CONTRACTOR

The following are the Principal Contractor's primary responsibilities for traffic accommodation

- Develop a traffic accommodation strategy and submit it for evaluation prior to commencement of work.
- This will be sent to the client for approval
- Included to the traffic management strategy must be drawings of how traffic will be managed
- Implement traffic accommodation measures in accordance with the traffic accommodation strategy.
- Ensure that all sub-contractors comply with the traffic accommodation strategy.
- Monitor the work zone to ensure that the traffic accommodation strategy is effective for both day and nighttime conditions during period of construction.
- Maintain all traffic control devices.
- Modify the traffic accommodation strategy if necessary. Take appropriate and timely action to correct any deficiencies by the contractor, in case of imminent danger, corrective action must immediate.
- All Traffic accommodation contractors shall have at least one First aider (Level 1) for each section of work.
- If the traffic Safety Officer have got the necessary first aid competency it will be accepted.
- It is also a recommendation and good practice that a Fire fighter be appointed for the site.
- Report all third-party vehicle accidents immediately to the Client. Provide a copy of the completed accident report within 48 hours of the occurrence.
- On construction projects, submit completed daily reports of the traffic accommodation details (location, date, time, signs, barricades) on weekly basis.
- On construction projects attend meetings to address any concerns regarding the performance of the traffic accommodation strategy.
- Provide a knowledgeable individual at the work zone to maintain the traffic control devices and address any traffic accommodation issues which arises, the contractor must identify the individual at the pre-construction meeting.
- All traffic controllers must have the necessary competency to be able to control traffic.

The provisions of Southern Africa Development Community (SADC) Road Traffic Signs Manual Volume 2: Chapter 13 and eThekweni Transport Authority Road works signing shall be followed in every detail.

N.B: For more information please do not hesitate to contact Siziwe Chiliza on 076 253 3339 or 031 322 2844 or email Siziwe.kweyama@durban.gov.za

ANNEXURE 3

OCCUPATIONAL HEALTH AND SAFETY ACT, 85 of 1993

Construction Regulations. 2014

Medical Certificate of Fitness

Name of Employee ID Number Co Number

| | *Possible Exposure | * Job specific Requirement | * Protective Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | e.g. noise, heat, fall, risk, confined space, etc. | e.g. Operating Mobile Crane, Digging Trenches, Erecting formwork & Support work, etc. | e.g. Dust respirator(Light Duty) Welding Gloves, etc. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Occupation <i>e.g. General worker , Welder, Bricklayer, Steel fixer, Mobile Crane, Operator, etc.</i> | <table border="1" style="width: 100%; height: 100px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | | | | | | | | | | | | | | | | | | | | | <table border="1" style="width: 100%; height: 100px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | | | | | | | | | | | | | | | | | | | | | <table border="1" style="width: 100%; height: 100px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | | | | | | | | | | | | | | | | | | | | |
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*** The employer to complete the information in the spaces marked with an before sending the employee for a medical examination**

Declaration by the Medical Examiner:
 I certify that I have, by examination and testing, using the above criteria specified by the employer, satisfied myself that the abovementioned employee is fit to perform the duties by the employer in the matrix above.
 Occupational Medicine Practitioner/ Occupational Health Nursing Practitioner: (Please Print Name).....

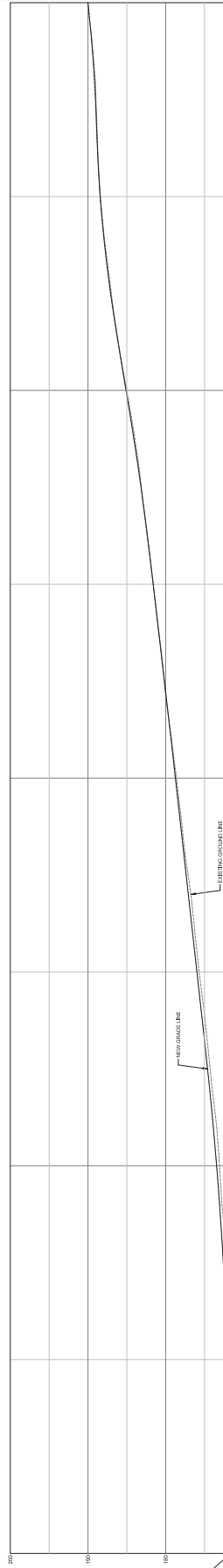
 Signature Practice Number Date

 Address



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| 1R-33158 | MSINSI AVENUE WARD 45 GRAVEL TO SURFACE | LONGITUDINAL SECTION CH4.000 TO CH277.032 |
| Contract No. | | Drawing Title |
| Project No. | | |

49491
 Drawing No
 Sheet 02

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FOR TENDER PURPOSES ONLY

New Road Area m²

Unsurfaced to Surfaced

AS BUILT

