# Miscellaneous Provisions

DIPL Roadworks Master – July 2020

## Standards, Acts, and Publications

Conform to the following Standards, Acts and Publications unless specified otherwise:

AS/NZS 1336 Eye and face protection - Guidelines

AS/NZS 1337(set) Personal eye protection and Eye and face protection

AS/NZS 1338(set) Filters for eye protectors

AS 1348 Road and traffic engineering - Glossary of terms

AS 1379 Specification and supply of concrete

AS 1742(set) Manual of uniform traffic control devices

AS/NZS 1800 Occupational protective helmets - Selection, care and use

AS/NZS 1801 Occupational protective helmets

AS/NZS 1906(set) Retroreflective materials and devices for road traffic control purposes

AS/NZS 1906.4 Retroreflective materials and devices for road traffic control purposes - High-visibility materials for safety garments

AS/NZS 2161(set) Occupational protective gloves

AS 2187.1 Explosives - Storage, transport and use - Storage

AS 2187.2 Explosives - Storage, transport and use - Use of explosives

AS/NZS 2210(set) Safety, protective and occupational footwear

AS 2299(set) Occupational diving operations

AS 2299.1 - Standard operational practice

AS 2299.2 - Scientific diving

AS 2815(set) Training and certification of occupational divers

AS 2815.1 - Occupational SCUBA diver - Standard

AS/NZS 2815.2 - Surface supplied diving to 30 m

AS 2815.3 - Air diving to 50 m

AS 2815.4 - Bell diving

AS/NZS 2815.5 - Dive supervisor

AS/NZS 4399 Sun protective clothing - Evaluation and classification

AS/NZS 4501.1 Occupational protective clothing - Guidelines on the selection, use, care and maintenance of protective clothing

AS/NZS 4501.2 Occupational protective clothing - General requirements

AS/NZS 4602.1 High visibility safety garments - Garments for high risk applications

AS 4742 Earth-moving machinery - Machine-mounted forward and reverse audible warning alarm - Sound test method

ISO 9533 Earth-moving machinery - Machine-mounted audible travel alarms and forward horns - Test methods and performance criteria

NTMTM NT Materials Testing Manual (Includes NTCPs and NTTMs) accessible via <https://transport.nt.gov.au/infrastructure/technical-standards-guidelines-and-specifications/materials-testing-manual>

NTCP NT Code of Practice (Included in the NTMTM)

NTTM NT Test Method (Included in the NTMTM)

*Aboriginal Land Rights (NT) Act 1976 (Cth)*

*Mineral Titles Act 2010* and *Mining Management Act 2001*

*Work Health and Safety (National Uniform Legislation) Act 2011* and Regulations 2011

*Dangerous Goods Act 1998* and Regulations 1985

Railways of Australia (ROA) Code - Installation of Other Parties Services and Pipelines Within Railway Boundaries

The *Water Act 1992*

The *Energy Pipelines Act 1991* (NT Gas)

ACMA Australian Communications Media Authority - any Standards, Acts, controls specifically required. Refer to ACMA directly.

Standard Specification for Environmental Management, DIPL publication

### Standards in Conflict

Where conflict arises between a referenced standard and particular clauses of this specification the specification prevails.

### Overseas Standards

Where no Australian Standard exists standards published by the British Standards Institute (BSI) or the American Society for Testing Materials are referenced.

### Currency of Standards

Use Standards, and their amendments, current 3 months before the date for the close of tenders except where different editions and/or amendments are required by statutory authorities, including, but not limited to, NATA and the National Construction Code including the Building Code of Australia.

## Definitions

The terms used in this specification are in accordance with the definitions laid down in AS 1348 unless specified otherwise in the Definitions clauses.

A reference to something in the singular includes a reference to it in the plural, and a reference to something in the plural includes a reference to it in the singular, unless the context clearly indicates otherwise.

APPROVED:

Means approved by the Superintendent except where applicable statutory requirements state otherwise or if a different approver is specified.

AS BUILT:

Has the same meaning as AS CONSTRUCTED.

AS CONSTRUCTED:

A documented record, including drawings, of the details of a construction following its completion. Includes and is the same as “As Built”, As Installed”, and “Works as Executed”.

AS INSTALLED:

Has the same meaning as AS CONSTRUCTED.

AUTHORISED:

Means authorised by the Superintendent except where applicable statutory requirements state otherwise or if a different authoriser is specified.

BUSINESS DAY:

Means the same as DAY.

CALENDAR DAY

Means any day of the week, including weekends, and including Public Holidays.

DAY:

Means working day, Monday to Friday, excluding Northern Territory wide Public Holidays, and excluding weekends.

DIPL (THE DEPARTMENT):

The Department of Infrastructure, Planning and Logistics.

DRY DENSITY RATIO:

The percentage ratio of the field dry density of a material to the modified maximum dry density of that material. This property is also termed Relative Compaction.

EXTRACTION AREA:

An excavation outside the formation limits for obtaining fill, gravel, rock and rubble. Also known as Borrow Pit.

HOLD POINT:

Obtain the Superintendent’s written approval for that particular part of the works.

PROVIDE:

Provide and similar expressions mean supply, install, connect, test, commission, and leave ready for use. It includes development of the design beyond that documented.

PUBLIC HOLIDAY

A day proclaimed as a Northern Territory wide Public Holiday.

RFQ:

Request for Quotation. Technical specifications and conditions applicable to an RFQ are equally applicable to an RFT (Request for Tender).

RFT:

Request for Tender. Technical specifications and conditions applicable to an RFT are equally applicable to an RFQ (Request for Quotation).

RURAL AREAS

Means areas not defined as URBAN AREAS.

SDS

Safety Data Sheet – provides information about hazardous materials such as identity, ingredients, health and physical hazards, safe handling and storage, emergency procedures, and disposal considerations.

SHALL:

Indicates a mandatory requirement unless the context clearly indicates otherwise.

URBAN AREAS

Are; - Areas in the Darwin region which are North of Cox Peninsula Road (Stuart Highway), West of Trippe Road (Arnhem Highway) and up to the end of the seal on Gunn Point Road, and

- Other areas which are within, and extending to, town boundaries.

WITNESS POINT:

Give the Superintendent sufficient prior notice, in writing, of an action so that that part of the works may be inspected.

WORKING DAY:

Means the same as DAY.

WORKING HOURS:

Means the hours, on a working day, from 8am to 4.30pm.

WORKS AS EXECUTED:

Has the same meaning as AS CONSTRUCTED.

## The Conditions of Tender and Conditions of Contract

The Conditions of Tender and the Conditions of Contract contain additional requirements which apply to works carried out under any contract awarded by NT Government, including any works carried out using this specification.

## Environmental Management

The Standard Specification for Environmental Management applies for all construction and demolition work for building and civil works carried out by or on behalf of the Northern Territory Government. The Standard Specification for Environmental Management takes precedence over this specification. A copy of that document is available via: <https://dipl.nt.gov.au/industry/technical-standards-guidelines-and-specifications/technical-specifications> .

### Preservation of Sites and Artefacts Cultural and Heritage Significance

Refer to the Standard Specification for Environmental Management.

### Contractor’s Environmental Management Plan

Refer to the Standard Specification for Environmental Management. Submission of the Contractor’s Environmental Management Plan is a Hold Point.

## Disposal of Waste

Dispose of waste of all types in a legal manner at a legal waste disposal site.

Obtain any permits required by the operator, and by the owner, of the waste disposal site.

Pay all fees associated with the permits and the disposal of the waste.

## Establishment

Allow in the tender for establishment on site, including, but not necessarily limited to, the following:

MOBILISATION:

Transportation and establishment on site, of all the requirements to complete the work.

DEMOBILISATION:

Removal and transportation from site of all temporary and construction facilities and equipment. Restoration of the site, on Practical Completion of the works, compatible with environs.

ONGOING COSTS:

All indirect costs associated with the contract. Provide, on request, details substantiating the amount shown in the Schedule of Rates.

["Bill of Quantities" to be inserted for Lump Sum Contracts]

## Volatile SUbstances Management – Hold Point

Contractors must become familiar with any Volatile Substance Abuse Management Plan(s) which is/are applicable in the areas where the Contractor needs access so that the works can be carried out. This includes, but is not limited to, the site(s) of the works, the site(s) of any accommodation used by the Contractor, and any access routes used by the Contractor.

The Contractor must comply with the requirements of any applicable Volatile Substance Abuse Management Plan(s). Failure to comply with an applicable Volatile Substance Abuse Management Plan is an offence. Prosecutions may be instigated. Offenders may be required to leave the area(s).

Aspects of Volatile Substance Abuse Management Plans of particular significance to the Contractor include, but are not limited to:

* The type of fuels used in fuelled vehicles, plant and equipment, and the secure storage of these,
* Products which use propellants, such as aerosol cans, and the secure storage of these,
* Paints, and the secure storage of these,
* Tools and equipment, which could be used to gain access to storage facilities where volatile substances may be stored, and the secure storage of these tools and items of equipment.

Copies of Volatile Substance Abuse Management Plans are available from the community which has a plan in place, community councils, land councils, or via <https://health.nt.gov.au/professionals/alcohol-and-other-drugs-health-professionals/volatile-substances> .

Check with the community/communities to ensure you receive up to date information.

**Hold Point** – Provide details of the volatile substances proposed to be brought in to the area(s) subject to Volatile Substance Abuse Management Plan(s) and provide details of the proposed methods for complying with the requirements of any applicable Volatile Substance Abuse Management Plan(s).

This clause is applicable only in areas where Volatile Substance Abuse Management Plan(s) are in place.

## Permits to Access Land for WORKs ON ROADS – HOLD POINT

The Department will advise the Contractor about the entities and/or organisations with jurisdiction over the land by way of the Environmental Risk Assessment document applicable to this Request for Tender/Request for Quote.

The Contractor must obtain permission, from the entities and/or organisations with jurisdiction over the site(s) of the works, to have access to the land where the works are to be carried out.

The Contractor must pay all fees and charges related to obtaining this permission. This includes obtaining appropriate approvals and permission to enter Aboriginal Land.

**Hold Point** – The Contractor must provide documentary evidence of having been granted the required permission(s) to;

* enter the land which is the site(s) of the works, and
* enter any other lands for ancillary activities related to the works, and
* carry out the works and works related ancillary activities.

Do not enter the land until this evidence has been received by the Superintendent.

The Contractor must comply with all conditions imposed by the entities and/or organisations which have jurisdiction over the land.

All works and works related activities in these areas must be carried out within the limits of the existing roadway, existing shoulders, and existing cleared drainage areas immediately adjacent to the roadway.

Unless prior permission is given by the entities and/or organizations with jurisdiction over the area:

* Do not clear any additional land.
* Do not stockpile any materials beyond the pre-existing cleared areas.
* Do not leave any surplus materials windrowed or stockpiled at the worksite on completion of the works.
* Do not windrow surplus materials at the tree line.

Do not spread surplus materials on the batters without approval from the Superintendent.

**Hold Point** – Provide documented advice on sites to which surplus materials will be taken. Provide documentary evidence of permits, from the entities and/or organisations with jurisdiction over those sites, for the dumping of surplus materials at those sites.

## Camp Site/Compound/Workshop – Hold point

**Hold Point -** Provide a copy of written permission from the owner or lessee of the land permitting establishment and operation of a camp site, compound and/or workshop, before commencing works.

Pay all costs associated with the use of the site(s).

Refer to the Department of Health - Environment Health Fact Sheet No.700 for Camp Site Requirements for Mining and Construction Projects.

Maintain all facilities in good condition.

Maintain buildings in relation to fire protection in accordance with the Northern Territory Building Act 1993 and Northern Territory Fire and Emergency Act 1996 and associated Regulations.

### Food Preparation Facilities – Hold Point

**Hold Point -** Provide a copy of proof of registration with Department of Health of any camp food preparation area in accordance with the Food Act.

### Waste

Comply with the requirements of the *Waste Management and Pollution Control Act 1998*.

Remove from the site and dispose of all waste materials, including green waste, food scraps and other putrescible wastes, construction waste, chemicals and effluent in an appropriate manner, in approved legal waste disposal sites or facilities.

Failure to comply with these requirements may result in remedial action being taken at your cost and may result in legal action being taken.

### Effluent – Hold Point

**Hold Point -** Provide a copy of written approval from Department of Health (DoH) for any proposed on-site effluent disposal system, before commencing works.

Ensure that all effluent from amenities is discharged into an approved facility or, if permitted by the controlling authority, the local sewerage system. Effluent disposal direct to ground or water is NOT permitted.

Septic tanks and portable self-contained toilets of suitable capacity may be used subject to suitable arrangements for the disposal of effluent.

**Hold Point -** Where the use of septic tanks or portable toilets is not reasonable or practical, pit toilets may be used, but this requires the prior written approval of the Superintendent.

Any pit toilets constructed must be at least 100 m from any bore, at least 200 m from any watercourse and sites must be appropriately rehabilitated on completion.

All septic tank installations or alternative septic systems servicing buildings both within and outside of declared building control areas, apart from installations subject to the *Building Act 1993*, must be approved by the Chief Health Officer (CHO) or the CHO's delegate for the area in which the works are to be carried out. Further information may be obtained from the relevant Environmental Health Officer in whose area the works are to be located. Regional contacts are contained within the Code of Practice for On-Site Waste Water Management accessible via <https://nt.gov.au/property/building-and-development/wastewater-management/codes-and-guidelines>.

### Rehabilitation – Hold Point

**Hold Point -** Obtain approval from the Superintendent for the completed rehabilitation of the camp site/compound/workshop before final demobilisation.

On completion of the works remove all facilities, unless otherwise agreed in writing with the owner or lessee of the land and restore the site to a clean and tidy condition.

Rehabilitate the site to its condition prior to conducting site works for establishing the camp ground, compound and/or workshop unless another course of action is approved by the Superintendent.

Where the camp site/compound /workshop is located within an extraction area, rehabilitation is to be undertaken in accordance with the conditions applying to rehabilitation of extraction areas. Rehabilitation measures must be implemented to a standard approved by the Superintendent prior to final demobilisation. Refer to the Standard Specification for Environmental Management.

Assume all responsibility for any current and consequential damage caused to the site as a result of occupation and pay for all remedial action required.

Refer to the Environmental Management clause in this work section and to ACTS, REGULATIONS, CODES, AND AUTHORITIES.

## Time Limit for Attendance

Unless specified otherwise, the works must be attended within the following time limits:

Generally the work must be attended within 3 working days of notification.

For urgent call outs within and outside of normal working hours the Contractor must be mobilised within 2 hours of notification.

For priority works, which involve health, safety and security, the Contractor must be mobilised within 6 working hours of notification.

## EXTRACTION AREAS And Water Sources

### Extraction Areas Locations

Borrow pits will be allowed provided that all the clearances and approvals listed in the Approvals For Extraction Areas clause in the Standard Specification For Environmental Management are obtained. Extraction areas are not permitted within 125 metres of the road centreline.

### Administration

Take responsibility for locating, selecting, operating and rehabilitating all borrow pits and water sources.

[Determine any constraints on the use of potential borrow areas and water sources, including sites of significance, environmental and salinity, etc. and include in the documents]

### Crushing or Screening – Witness Point

The crushing or screening plant to be used on the project subject to this contract must be certified as fit for use by a competent person. The certification of fitness for use must have been issued not more than one year prior to the date of the scheduled completion of the works plus one calendar month. A competent person is defined in the NT Work Safe Bulletin 09.01.16 Competent Persons for Inspection and Maintenance of Plant.

Comply with the guidance provided in the Safe Work Australia Code of Practice Managing Risks of Plant in the Workplace.

**Witness Point** – Provide documentary evidence of the certification that the plant is fit for use issued by a competent person. Provide documentary evidence of that person’s skills and qualifications which indicate their competence as defined in the NT Work Safe Bulletin cited above. This evidence is to be provided within 2 weeks of the award of the contract.

### Process Control Testing of Extracted Materials

The Contractor is responsible for ensuring extracted material conforms to the specifications. The Contractor must pay all costs associated with replacement of nonconforming material and for correction of all nonconforming works.

### Operation of Extraction Areas – Hold Point

Access

Construct only one access road to each pit.

Confine all transport operations to the access road.

Provide and maintain adequate road drainage.

Extraction

Strip 100 mm minimum depth top layer throughout the area of operation.

[Evaluate depth to be removed and amend as required]

Stockpile stripped material clear of drainage courses to a maximum height of 2 m.

Ensure that side slopes of sand or gravel are not steeper than one vertical to two horizontal at any time when the excavation is unattended.

Remove or bury by‑products of the excavation operations unless otherwise required.

Limit of Excavation

Not within 6 m of any fence line or utility service.

Not within any gas pipeline reserve.

Not within sight of road traffic.

Not within 125 m of any road or railway centre line.

Not within 25 m of a water course.

Maximum area: Should not exceed 1 ha. Align the long side with the contour.

**Hold Point** - Obtain Superintendent approval to exceed 1ha pit size.

Maximum width: 50 m.

Maximum depth: 2 m.

Leave natural vegetation strips 25 m width between pits.

Stockpile cleared vegetation and subsequently spread over the surface of the extraction area.

Existing pits within 125 m of a public road may be used provided:

No significant revegetation exists.

Extension proceeds away from the road.

Site is rehabilitated after use.

### Rehabilitation of Extraction Areas

Progressively rehabilitate extraction areas.

Backfill all test pits.

Respread unused material and rip 0.5 m deep at 3 m spacing along the contours.

Remove all rubbish and debris.

Replace stockpiled topsoil and cleared vegetation uniformly over the extraction area.

Batter walls at three horizontal to one vertical where excavation is less than 1 m depth, and six horizontal to one vertical where depth exceeds 1 m.

Rehabilitate any access road constructed for the project.

[Delete any operation not required]

Refer to the Standard Specification for Environmental Management.

### Stream Sites

Contact Department of Environment and Natural Resources (DENR) prior to conducting any work in a stream site.

Excavation Limits

Not within 200 m upstream or downstream of any road structure, pipeline or gauging station.

Not in a manner liable to cause erosion or further disturbance to the watercourse.

Not within 15 m of the trunk of a tree and not under the branches of any tree.

[Delete if not applicable]

Conditions

Leave sizeable islands to ensure groupings of trees that will withstand stream bed erosion.

Maximum batter slope: Two horizontal to one vertical.

[Delete if not applicable]

### Inspection

Allow authorised personnel from DENR to enter the site at any time.

### Records

Provide the following details on completion:

List of areas used.

Chainages of area along the public road.

Direction and length of haul road.

Approximate volume of material removed from each site.

Provide suitable forms for such records to the Superintendent.

## Explosives – hold point

Provide evidence of the following requirements of NT WorkSafe:

* Licence to carry and store explosives.
* Vehicle licensed to carry explosives.
* Shot Firer’s Certificate.

Inspect and record the condition of all structures and services subject to possible effect by use of explosives before and after blasting operations.

**Hold Point -** Obtain approval from Superintendent before commencing blasting operations.

## Plant and Equipment

### Geo-spatial data

If Geo-spatial data is provided by the Principal it is for information only. The data must not be relied on as being accurate. The data must not be uploaded to plant or equipment.

### Specification Reference

Refer to the Northern Territory Government Standard Specification for Environmental Management and to the RFT.

### General

Do not clean spray bars or other contaminated equipment on the work site.

Clean plant and equipment in a location and in a manner which prevents pollution of the surrounding environment.

Clean plant and equipment before it is brought on to the site and immediately before it leaves the site to make it pest and weed free.

Plant and equipment is to be inspected and maintained as necessary during the course of the works. Emissions and fluid leaks are to be minimized by ensuring plant and equipment are well maintained, in good repair and in good working order.

### Mobile Plant Machinery - Broadband Alarm

**Standards**

AS 4742:  Machine-mounted forward and reverse audible warning alarm (withdrawn)

ISO 9533: [Earth-moving machinery - Machine-mounted audible travel alarms and forward horns - Test methods and performance criteria](http://www.saiglobal.com/online/Script/Details.asp?DocN=ISOA00001_2610)

**Definitions**

**Broadband alarm:** Pulsed acoustic signal that comprises a range of frequencies and sometimes referred to as quacker, woosher, non-tonal reversing beepers or white sound.

### Broadband/White-Sound Alarm Requirement:

Broadband Alarms (White Sound) must be fitted to all construction vehicles and mobile plant before commencement of works.

Ensure that installation and operations of the alarm/warning systems are sufficient before commencement of works, including, but not limited to:

* All alarms clearly audible above the noise level of the machinery or vehicles.
* Alarms are automatically activated when reverse gear is selected in the vehicle to which it is fitted, or when the machine to which the alarm is fitted is switched on and is in use.
* Directional nature of the broadband alarm is appropriate for works.

### Warning Beacons on Vehicles and Mobile Plant, Machinery, and Equipment

Provide beacons, or other vehicle, or plant, or equipment, or machinery, mounted visual illuminated warning devices on the highest point of the cabin roof or superstructure of all vehicles, mobile plant, mobile machinery, and mobile equipment in accordance with the **Vehicle-Mounted Signs And Devices** Clause in the **Description And Use of Signs And Devices** Section of AS 1742.3 where these are being used within the road reserve.

Fit beacons with globes rated at a minimum of 55 watts, or the LED equivalent.

Do not use strobe lights.

Ensure that the light is operational whenever the plant or equipment is working on or within 9 m of the roadway.

Ensure that the light is visible from all approaches and not obscured by exhaust stacks, back hoe arms etc, and that the beacons or warning devices are not covered in dust.

Non-compliance with this clause may result in the Contractor being directed to cease work, which will be at no cost to the Principal, and which will not be grounds for an extension of time claim.

## Safety

Comply with the *Work Health and Safety (National Uniform Legislation) Act 2011* and Regulations and any applicable Codes of Practice, and any applicable Australian Standards.

All workers on site are to have undertaken and completed **Prepare to work safely in the construction industry** (CPCCWHS1001), or superseding or preceding equivalent qualification recognised by training.gov.au.

Site specific and Task specific induction training is still required for all work sites and is to be provided by the employer.

### Safety Officer – Witness Point

**Witness Point -** Appoint a Safety Officer and notify the Superintendent of the Safety Officer’s name, and contact details, including an after-hours contact phone number.

Ensure the Safety Officer is capable and available at all times as required.

The Superintendent retains the right to revoke the appointment of the Safety Officer at any time, and direct that another person be appointed.

### Work Health and Safety Management Plan - Hold Point

**Hold Point -** If the Act requires it, provide a Work Health and Safety Management Plan within 14 calendar days of award of the contract. Do not commence works until the Superintendent has advised that the Work Health and Safety Management Plan may be used.

Comply with the *Work Health and Safety (National Uniform Legislation) Act 2011* and Regulations and any applicable Codes of Practice.

A person with control of a construction project, irrespective of monetary value of the contract, where five or more persons are working, or are likely to be working simultaneously on a construction site must ensure that:

* a site-specific Work Health and Safety Management Plan is prepared before the work commences; and
* The plan is monitored, maintained and kept up to date during the course of the work.

The person with control of the construction project must ensure that the Work Health and Safety Management Plan includes, but is not limited to:

* a statement of responsibilities, listing the names, positions and responsibilities of all persons who will have specific responsibilities on the site for Work Health and Safety;
* the detail of arrangements for ensuring compliance with the Work Health and Safety induction training requirements of this national standard;
* the detail of arrangements for the co-ordination of health and safety issues of persons engaged to undertake construction work;
* the detail of arrangements for managing Work Health and Safety incidents when they occur, including the identities of and contact details of all persons who will be available to prevent, prepare for, respond to and manage recovery from such incidents;
* any site safety rules, with the detail of arrangements for ensuring that all persons at the site, whether employees, contractors, suppliers or visitors, are informed of the rules;
* the hazard identification, risk assessment and risk control information for all work activities assessed as having safety risks; and
* The safe work method statements for all high-risk construction work.

### Safety Practice

Provide safety equipment, protective clothing and devices and first aid facilities.

Ensure that employees are instructed concerning hazards and how to avoid injury.

Observe good safety practices throughout the Contract.

### Safety Equipment, Clothing, and Devices

Safety equipment, clothing, and devices used are to comply with the requirements of the Australian Standards listed in this work section.

### Work Involving Chemicals

Comply with *Work Health and Safety (NUL) Act 2011* and Regulations 2011.

SDS documentation for chemicals used during the works must be held on site at all times during the works.

Spill clean-up equipment and materials, appropriate for the type and quantities of chemicals used on site, must be kept on site at all times during the works. They must be kept in a readily accessible location. The equipment and materials must be maintained and replenished as needed.

Staff trained in the use of the spill clean-up equipment and materials must be on site at all times during the works.

Report all chemical spills to the Superintendent.

Where appropriate, also report spills to the NT Pollution Hotline, phone 1800 064 567.

Chemicals include, but are not limited to, paints, fuels, oils, herbicides, pesticides, tars, lubricants, cleaning products (domestic and industrial types), inks, dyes, toners, fertilizers etc.

## Fencing And Shoring Of Open Excavations

Design, construct and maintain the excavation and shoring in a safe and satisfactory condition.

Support trenches in saturated or unstable ground with close timbered shoring or similar.

## Work On Railway Sites – hold point

Comply with *Work Health and Safety (N.U.L) Act 2011* and Regulations 2011.

Carry out work within railway sites to the approval of the owner and accredited operator of the railway.

The Contractor must comply with all requirements, conditions and directions of the owners and accredited operators of the Railway pursuant to the Northern Territory *Rail Safety (National Uniform Legislation) Act 2012*. When carrying out work under the Contract within 100 metres of the Railway obtain any approvals or licences required for such work.

Comply with the terms of any current existing interface agreement for work within the railway sites.

Provide documentation detailing all interfaces between the works under the Contract and the Railway or Railway land. The Contractor must fully comply with the terms of the plan.

The contractor indemnifies in the Principal in respect of any claim made by or liability to any person arising out of:

* The performance of work on, over or near the Railway, and
* The procurement or utilisation of a Railway track possession or track isolation (including any postponement, improper use or delay in relinquishing them).

Give 14 days written notice to the owner and operator of intent to commence work and provide a work plan showing safe working conditions for the site.

**Hold Point -** Do not commence work until the work plan has been approved by the owner and operator of the rail system.

If work is required to be carried out within 3 metres of the actual rail line, this work must be co-ordinated through the Superintendent.

## WORK NEAR TRAFFIC COUNTING STATIONS – hold point

**Hold Point -** Prior to commencing any excavation, boring of holes, blasting, rock breaking, soil compaction or similar activity in the vicinity of traffic counter station detector loops, obtain the location of the cables from the Department of Infrastructure, Planning and Logistics, Transport Planning Division, Data Contracts Officer and pay all fees.

Follow all directions and instructions issued by the Transport Planning Division in relation to work in the vicinity of such cables.

[ Use this clause where there is a possibility of adjacent work damaging cables. Delete if not applicable.]

## Project Notice Boards

Supply, erect and maintain Project Notice Boards, at locations nominated by the Superintendent and in accordance with ROAD FURNITURE AND TRAFFIC CONTROL DEVICES, within 2 weeks of establishment on site.

Design the Project Notice Boards in accordance with drawing number(s) [enter information]

[ Insert the drawing number(s).]

Include the following project specific wording on the boards;

**[enter information]**

**[enter information]**

[ provide the required wording.]

Remove the boards within 2 weeks after the Certificate of Practical Completion has been issued.

[ Use this paragraph for NT roads.]

Remove the boards 52 weeks after the Certificate of Practical Completion has been issued.

[ Use this paragraph for Federal roads.]

## Level Checking

Check levels of subgrade and final surface at 25 m intervals.

Check levels at centre line and to edges of pavement.

Check levels of intersections and parking areas at appropriate intervals.

Check levels using an independent and competent surveyor who is eligible for membership of the Institution of Surveyors Australia or the Institution of Engineering and Mining Surveyors Australia.

**Survey Pegs**

Install temporary survey pegs along the extent of the works.

The survey pegs are to be installed in close proximity to the edges of the formation but still provide clearance for plant and equipment to be used without damaging or moving the survey pegs.

The survey pegs must be installed in pairs, one on each side of the pavement, positioned and marked to have the same chainage.

The survey pegs are to be spaced at 100m intervals longitudinally along the works

Individual survey pegs are to be tied with high visibility flagging tape.

The survey pegs are to be marked with the design relative level of the finished pavement and the chainage at which each survey peg is located. This information must be clearly legible throughout the duration of works.

The finished pavement design levels are at points in the centre of the pavement for pavements with equal numbers of traffic lanes in each direction of travel.

The finished pavement design levels are at points in the centre of 2 adjacent lanes which have opposite directions of travel for pavements with unequal numbers of traffic lanes in each direction of travel.

Any survey pegs which are damaged must be repaired or replaced and reinstated in their correct positions as soon as practicable.

Any survey pegs moved but not damaged must be reinstated in their correct positions as soon as practicable.

## Level Auditing

The Superintendent may choose to audit any level survey submitted to show conformance with the specified tolerances.

Provide an experienced survey assistant when requested by the Superintendent to assist in audit checking.

## Control Station Check Survey – witness point

Refer to the RFT Preliminary Clause SURVEYS AND SETTING OUT.

**Witness Point -** Where results exceed the quoted tolerance notify the Superintendent and obtain directions.

[ Ensure that the Surveys and Setting Out clause is included in the Preliminaries section.]

## Cycle and Pedestrian shared Paths

For concrete shared use paths provide 100mm minimum thick concrete to AS 1379 N25 with reinforcing mesh SL62 placed centrally. Mesh material to AS/NZS 4671, installation to AS 2870.

All relevant design principles contained in AUSTROADS must be integrated in the design of cycle ways, pathways and associated infrastructure (Austroads Guide to Road Design Part 6A: Pedestrian and Cyclist Paths). Refer to Design drawings (if any) and conform to local Council requirements. Refer to Project Specific Requirements in the Request for Tender.

## As Constructed Information – HOLD POINT - WITNESS POINT

**Hold Point** – Provision of As Constructed information is a condition precedent to Practical Completion.

**Witness Point** - Provide As Constructed drawings for all of the works.

- Show in red, on the Contract Drawings, as constructed information relating to works constructed beyond the various construction tolerances. The information includes, but is not limited to:

o Setout co-ordinates, where applicable.

o Design levels.

o Detail dimensions.

- Pavement, seal, line marking and protection extents.

- Refer to the specific deliverables in the NTG Technical Drawings Part 1 - Requirements for Technical Records Management document, which is accessible via <https://dipl.nt.gov.au/industry/technical-standards-guidelines-and-specifications/technical-records> .

- Drawings without changes shall also be included and labelled as "As Constructed " in the amendment description column.

As Constructed includes and means the same as; works as executed, and as installed, and as built.

Hard copies of documents are no longer required. Electronic copies in Microsoft Word, Microsoft Excel, pdf, .dwg or .dgn, or as specified, are required.

Where the scope of work has been varied beyond the content of the Contract Drawings, provide As Constructed drawings to reflect the work, to the same format and style as defined in:

- The NTG Technical Drawings Part 1 - Requirements for Technical Records Management document, which is accessible via <https://dipl.nt.gov.au/industry/technical-standards-guidelines-and-specifications/technical-records> .

- The NTG Technical Drawings Part 2 – Civil CADD Manual document, which is accessible via <https://dipl.nt.gov.au/__data/assets/pdf_file/0017/430019/ntg-technical-drawings-part-2-civil-cadd-manual.pdf> .

Document all changes to and variations of the design as the work proceeds.

Provide amended versions of the information and drawings which reflect the as built conditions.

Provide PDF copies of drawings in A3 size format and provide the drawings in CAD format in AutoCad or Microstation. Provide copies of text information in A4 portrait format in Microsoft Word, and/or PDF format. Provide tables and schedules in Microsoft Excel and/or PDF. Standard: To AS 1100(set) Technical drawing.

Where the drawings are to be reduced, the annotation character heights shall be selected so that the annotation character heights as reproduced are not less than 1.8 mm. Resolution to be a minimum of 600 dpi.

Provide the amended information and drawings to the Superintendent progressively as the work proceeds, with or before the next progress payment claim, or with or before the claim for the variation which led to the need to amend the information and drawings to accurately reflect the as built condition.

**Witness Point** - Before the work commences provide a proposed procedure for recording and submitting the amended drawings.

Use an independent surveyor who is eligible for membership of the Institution of Surveyors Australia or the Institution of Engineering and Mining Surveyors Australia to record the changes and variations, and certify each of the drawings and/or documents labelled and provided as “As Constructed” information.

## DIVING WORK

### General

Comply with the *Work Health and Safety (NUL) Act 2011* and Regulations 2011.

Comply with ADAS Operation Manual or DRDC (formerly DCIEM) Diving Manual or NOAA Diving Manual.

### Standards

AS/NZS 2299 Occupational diving operations

AS/NZS 2299.1 Standard operational practice

AS/NZS 2299.2 Scientific diving

AS 2815 Training and certification of occupational divers

AS 2815.1 Occupational SCUBA diver – Standard

AS/NZS 2815.2 Surface supplied diving to 30 m

AS 2815.3 Air diving to 50 m

AS 2815.4 Bell diving

AS/NZS 2815.5 Dive supervisor

### Definitions

ADAS Australian Diver Accreditation Scheme

DRDC Defense Research and Development Canada

NOAA National Oceanic and Atmospheric Administration (USA)

WHS (NUL) *Work Health and Safety (National Uniform Legislation) Act 2011*, Regulations and applicable NT and Federal Codes of Practice

### Diver Qualifications

Provide evidence of competency for all personnel undertaking diving work (general occupational diving or high risk diving as applicable). Minimum competencies required are the competencies required by ADAS deemed by ADAS to be appropriate for the works to be undertaken. Refer to the AS 2815 (set).

### Dive Safety Log

Maintain and provide Dive Safety Log (in accordance with Regulation 180, of the WHS (NUL) Regulations). To be provided for review on request and at completion of works. Refer to AS 2299 (set).

### Dive Plan

Submit a Dive Plan (in accordance with Regulation 178, of the WHS (NUL) Regulations). To be submitted after contract award and at least 14 days prior to commencement of diving works. Refer to AS 2299 (set).

The Dive Plan is to include:

* the method of carrying out the diving work to which it relates;
* the tasks and duties of each person involved in the dive;
* the diving equipment, breathing gases and procedures to be used in the dive;
* as applicable, dive times, bottom times and decompression profiles;
* hazards relating to the dive and measures to be implemented in the control of risks associated with those hazards;
* emergency procedures.

### Crocodile Hazard Management

Provide a Crocodile Hazard Management Plan where diving work is to occur in waters known to have, or suspected of having, crocodiles. The plan can include, but not be limited to;

* Having spotters at water level and on a bridge,
* Minimizing movement of vessels once diving work commences to reduce risk of attracting crocodiles and
* Establishing a communication plan and having a communications system or methodology in place so that all parties conducting the activity can communicate with each other.

### Dive Cage

Diving work in waters known to have, or suspected of having, crocodiles is to be carried out by divers who are protected by a dive cage. This dive cage should be engineered for the task and can be mounted to either a service barge or other watercraft or lowered from a bridge, depending on the task environment.

### Crocodile Net

If a crocodile net is the only viable option provide details of the construction of the net and its support systems and provide details of the risk management plan which will be in place during use of the net.

### Response if a crocodile is spotted

Ensure or personnel move to a safe place.

Contact the Crocodile Management Unit of the Parks and Wildlife Service

* Darwin All hours 0419 822 859 or 0401 118 776 or Office hours 8999 4691
* Katherine All hours 0407 958 405 or Office hours 8973 8849

If safe and practical to do so, monitor the movement of the crocodile(s) so that the personnel from the Crocodile Management Unit can be told of the crocodiles last known location.

## WORK near Areas where crocodiles may be present

For all work in or near areas where crocodiles may be present comply with the crocodile related sub-clauses in the Diving Work clause.

## Time allowed for assessment of submitted documents

This clause is related to documents which are to be submitted by the Contractor to the Superintendent for assessment and/or acceptance and/or approval and/or appraisal.

The documents subject to this clause include, but are not limited to:

* Traffic Management Plan
* Inspection and Test Plans
* Project Control Plan
* Quality Assurance Plan
* Work Health and Safety Plan which includes, but is not limited to:
* Risk assessment and mitigation measures proposed
* Project targets and how they will be achieved
* Induction training sessions for all site personnel, including sub-contractors, suppliers, and the Principal's representatives
* Cultural Heritage inductions by Cultural Monitors
* Indigenous Development Plan
* Contractor’s Environmental Management Plan which includes, but is not limited to:
* Erosion and Sediment Control Plan
* Acid Sulphate Soils Management Plan
* Weed Management Plan
* Asbestos Management Plan
* Cultural Heritage Management Plan

The Superintendent will provide a response in respect to the submitted documents to the Contractor within a reasonable time. The length of time considered reasonable will depend on the complexity of the documents, the amount of information in the documents and the workload of the Department’s personnel who will assess the documents. The length of time considered reasonable can be negotiated between the Contractor and the Superintendent. Any such negotiated time must be fair to both parties.

If the documents are rejected, not accepted, not approved or returned for modification, the Superintendent will have an additional reasonable time period to assess the amended documents.

The time taken by the Superintendent to assess submitted documents or to assess re-submitted documents and to respond to the Contractor will not be accepted as a reason for the Contractor to claim an extension of time nor to claim a variation for costs related to the preparation of, or modification to, documents to be submitted or re-submitted.

These time frames do not apply in emergency situations where faster responses are appropriate.

Resubmitted documents must be sent with the changes made clearly marked. Changes should only be made to the plans to the extent required by the Superintendent. Any changes not explicitly requested by the Superintendent but made in the resubmitted plans must be clearly visible in the document and the reasons for making the changes must be explained in a separate document or the covering email. Changes not made obvious and not explained or made obvious but not explained will not be accepted under the contract whether this is advised to the Contractor or not. Changes which were not requested but are made obvious and which are explained will be assessed during the re-assessment process.

Plans required in respect to works in specialised facilities such as health care facilities and secure facilities will be subject to responses in time frames to be negotiated.

## CONTRACTOR’S SUBMISSIONS – Hold Point

Find out the extents of the road reserve for the full length of the works. Widths of road reserve vary.

Obtain all required permits, and approvals, for works, and associated activities, proposed to be carried out in areas not in the road reserve. This is in addition to all other required permits and approvals.

**Hold Point -**  Provide copies of permits, and approvals, for works, and associated activities, proposed to be carried out in areas not in the road reserve before commencing any proposed works, and activities.