<table>
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<tr>
<th>Publication Number:</th>
<th>MITS 03G Edition 1 Revision 0</th>
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<tr>
<td>Date of Effect:</td>
<td>July 2019</td>
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<tr>
<td>Endorsed By:</td>
<td>Karl Cloos Director, Infrastructure Planning</td>
</tr>
<tr>
<td>Approved By:</td>
<td>Ken Marshall Executive Branch Manager, Roads ACT</td>
</tr>
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**Document Information**

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<tr>
<th>Document</th>
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<tr>
<td>Document Title</td>
<td>MITS 03G Service Conduits</td>
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<td>1391 Service Conduits</td>
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**Revision Register**

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1 SERVICE CONDUITS

1.1 General

1.1.1 Responsibilities

1.1.1.1 General

Requirement: Provide electrical and telecommunication conduits and pits as documented.

1.1.2 Cross references

General: The following documents are related to this Specification.

1.1.2.1 ACT Legislation

Electrical Safety Act
Gas Safety Act
Public Roads Act
Road Transport (General) Act
Scaffolding and Lifts Act
Scaffolding and Lifts Regulation
Utilities Act
Work Health and Safety Act

1.1.2.2 Commonwealth Legislation

Telecommunications Act

1.1.2.3 Specifications

Requirement: Conform to the following:

MITS 00 Preliminaries
MITS 01 Traffic Management
MITS 02 Earthworks
MITS 04 Flexible pavement construction
MITS 06 Concrete kerbs, footpaths and minor works
MITS 08 Incidental works
MITS 09 Landscape
MITS 10 Concrete works
1.1.3  Referenced documents

1.1.3.1  Standards

General: The following documents are incorporated into this Specification by reference:

**Australian standards**

- **AS 1074**  Steel tubes and tubulars for ordinary service
- **AS 1289**  Methods of testing soils for engineering purposes
- **AS 1289.3.6.1**  Determination of the particle size distribution of a soil - Standard method of analysis by sieving
- **AS 1345**  Identification of the contents of pipes, conduits and ducts
- **AS/NZS 2032**  Installation of PVC pipe systems
- **AS/NZS 2053**  Various Conduits and fittings for electrical installations
- **AS/NZS 2053.2**  Rigid plain conduits and fittings of insulating material
- **AS/NZS 2053.4**  Flexible conduits and fittings of insulating material
- **AS/NZS 2053.7**  Rigid metal conduits and fittings
- **AS/NZS 2053.8**  Flexible conduits and fittings of metal or composite material
- **AS/NZS 2648**  Underground marking tape
- **AS/NZS 2648.1**  Non-detectable tape
- **AS/NZS 3000**  Electrical installations (known as the Australian/New Zealand Wiring Rules)
- **AS/NZS 3750**  Paints for steel structures
- **AS/NZS 3750.9**  Organic zinc-rich primer
- **AS/NZS 3879**  Solvent cements and priming fluids for PVC (PVC-U and PVC-M) and ABS and ASA pipes and fittings
- **AS 3996**  Access covers and grates
- **AS/CA S009**  Installation requirements for customer cabling (Wiring Rules)

**Austroads**

- **AP-G72**  Telecommunications in road reserves – Operational guidelines for installation

1.1.3.2  Other publications

Communications Alliance Ltd, Industry guideline, Fibre ready pit and pipe specification for real estate development projects, G645.

NBN, New Developments: Deployment of the NBN Co Conduit and Pit Network - Guidelines for Developers, NBN-TE-CTO-194

**Typical Shared Trench Procedure, Jemena**

Shared Trench Agreement for the ACT – Between Telstra, ActewAGL, ZNX, NBN, Australian Capital Territory

Proprietary products: To **TCCS Products previously considered for use list**
1.1.4 Standards

1.1.4.1 General
Electricity conduits and pit installation: To AS/NZS 3000, AS/CA S009 and the requirements of the local electricity network distributor.

Telecommunication conduits and pit installation: To AP-G72.

NBN: To New Developments: Deployment of the NBN Co Conduit and Pit Network - Guidelines for Developers.

Fibre optic cable: To Fibre ready pit and pipe specification for real estate development projects.

PVC-U pipe systems installation: To AS/NZS 2032.

1.1.5 Interpretation

1.1.5.1 Abbreviations
General: For the purposes of this Specification the following abbreviations apply:

FDH: Fiber Distribution Hub

NBN: National Broadband Network Corporation.

TCCS: Territory and Municipal Services, ACT Government, and its successors.

1.1.5.2 Definitions
General: For the purposes of this Specification the following definitions apply in addition to those of AS 1348:

Shared trench: A common service trench for telecommunications, gas or electrical services in accordance with the Shared Trench Agreement for the ACT.

Space factor: Ratio of the sum of the cross sectional areas of the installed cables to the internal cross sectional area of the conduit.
1.1.6 Hold points and witness points

1.1.6.1 Notice

General: Give written notice to the Authorised person so that the documented inspection and submissions may be made to the Hold point table and the Witness point table.

Table 3G-1 Hold point table

<table>
<thead>
<tr>
<th>Item</th>
<th>Clause title</th>
<th>Requirement</th>
<th>Notice for inspection</th>
<th>Release by</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Materials</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3G.1</td>
<td>General – Components</td>
<td>Provide certificates</td>
<td>Before delivery</td>
<td>Authorised Person</td>
</tr>
</tbody>
</table>

Table 3G-2 Witness point table

<table>
<thead>
<tr>
<th>Item</th>
<th>Clause title</th>
<th>Requirement</th>
<th>Notice for inspection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Execution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3G.1</td>
<td>Construction traffic - Protection measures</td>
<td>Submit certification and verification of protection measures</td>
<td>3 working days</td>
</tr>
<tr>
<td>3G.2</td>
<td>Conduit installation - Marking</td>
<td>Marking tape, kerbs</td>
<td>1 working day</td>
</tr>
<tr>
<td>3G.3</td>
<td>Completion - General</td>
<td>Clean debris and ensure lids fit securely</td>
<td>3 working days</td>
</tr>
</tbody>
</table>

1.2 Pre-Construction Planning

1.2.1 Consultation

Requirement: Locate, verify existing underground service locations.

Consultation: Prior to excavation of trenches for service conduits the contractor shall liaise with the service authorities and arrange a site meeting to confirm the servicing and coordination requirements of each authority.
1.3 Materials

1.3.1 Conduits

1.3.1.1 General

Components: Provide certificates of conformance for all materials and components which are readily identifiable with the batch that they represent.

This is a HOLD POINT.

Size of conduit: Unless otherwise shown on the drawings:

- Space factor < 0.5.
- Flexible conduit: 25mm.
- Conduit (under road): 80mm.
- Conduit (general underground): 50mm.
- Gas: To AS/NZS 2053.
- Power and lighting: To AS/NZS 3000 clause 3.11.
- Telecommunications: To AS/CA S009 clauses 8 and 9.

Draw cord: Provide polypropylene draw cord in conduits not in use.

Conduit colour: Conform to the following:

- Gas: Grey.
- Telecommunications: White.
- Electrical: Orange.

UPVC priming fluid and solvent cement: To AS/NZS 3879.

Marker tape: To AS 2648.1.

Fixings Saddles: Double sided fixed.

1.3.1.2 Metallic conduits and fittings

Rigid plain conduits and fittings: To AS/NZS 2053.7.

Flexible conduits and fittings of metal or composite material: To AS/NZS 2053.8.

Heavy duty galvanized steel tube: To AS 1074.

Type: Screwed steel.

Saddles: Conform to the following:

- Internal: Zinc plated.
- External: Hot-dipped galvanized.

Corrosion protection of steel conduits: Paint ends and joint threads with zinc rich organic primer to AS/NZS 3750.9.

Laid underground: Steel water pipe with protection outside and inside to AS 1074.
1.3.1.3 Electrical cables enclosed in ferromagnetic enclosures (steel conduit)
Requirement: Install to AS/NZS 3000 clause 3.9.10.

1.3.1.4 Non-metallic conduits and fittings
Heavy duty rigid UPVC: To AS/NZS 2053.2.
Flexible conduit: To AS 2053.4.
Joints: Cemented or snap on.

1.3.2 Pits
1.3.2.1 General
Pits: Provide cable draw-in pits as shown on the drawings.
Plastic materials: Must be UV stabilised.
Pits: Provide proprietary concrete or polymer concrete moulded pits in conformance with the relevant asset owner requirements.
1.4 Execution

1.4.1 Provision for traffic

1.4.1.1 General

Requirement: Conform to MITS 01 Traffic Management.

1.4.2 Site establishment

1.4.2.1 Survey

Requirement: Confirm site surface and benchmarks. Conform to MITS 00 Preliminaries.

1.4.2.2 Construction traffic

Protection measures: If proposing to move heavy construction plant or vehicles over service conduits without minimum cover depths, provide verification and certification of protective measures.

This is a WITNESS POINT.

Table 3G-3 Minimum cover depths table

<table>
<thead>
<tr>
<th>Service</th>
<th>Minimum cover (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Non-trafficable areas</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Telecommunications</td>
<td>450</td>
</tr>
<tr>
<td>Gas</td>
<td>600</td>
</tr>
<tr>
<td>Electricity conduits (≥63 mm)</td>
<td>850 LV</td>
</tr>
<tr>
<td></td>
<td>1100 HV*</td>
</tr>
<tr>
<td>Other conduits (unless specified by the relevant authority)</td>
<td>750</td>
</tr>
</tbody>
</table>
1.4.4 Bedding and backfilling

1.4.4.1 Bedding

Depth: Provide minimum 50mm bedding for all conduits. Within shared trenches, provide sufficient bedding to achieve minimum separation requirements, as shown in the Minimum separation requirements table.

Table 3G-4 Minimum separation requirements table

<table>
<thead>
<tr>
<th>Minimum separation requirements radial distance (mm)</th>
<th>Telco conduit</th>
<th>Electrical conduit LV*</th>
<th>Electrical conduit HV*</th>
<th>Gas ≤50 mm</th>
<th>Gas &gt;50 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telco conduit</td>
<td>100</td>
<td>150*</td>
<td>300*</td>
<td>150</td>
<td>300</td>
</tr>
<tr>
<td>Electrical conduit LV*</td>
<td>150</td>
<td>n/a</td>
<td>n/a</td>
<td>150</td>
<td>300</td>
</tr>
<tr>
<td>Electrical conduit HV*</td>
<td>300</td>
<td>n/a</td>
<td>n/a</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Gas ≤50 mm</td>
<td>150</td>
<td>150</td>
<td>300</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Gas &gt;50 mm</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Electrical/Telco pits</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>150</td>
<td>300</td>
</tr>
</tbody>
</table>

Note: * Electrical cables to be protected.

Electrical: To Evo Energy requirements.

Gas and telecommunications: Provide ‘gas sand’ bedding for gas and telecommunications conduits to the Gas sand bedding materials table. Compact bedding material to DI 70%.

Table 3G-5 Gas sand bedding materials table

<table>
<thead>
<tr>
<th>Sieve size</th>
<th>% Passing (to AS 12.9.3.6.1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.36 mm</td>
<td>100</td>
</tr>
<tr>
<td>1.18 mm</td>
<td>100</td>
</tr>
<tr>
<td>0.425 mm</td>
<td>90-100</td>
</tr>
<tr>
<td>0.150 mm</td>
<td>15-40</td>
</tr>
</tbody>
</table>

1.4.4.2 Overlay zones

Gas: Backfill the gas main pipe overlay zone with ‘gas sand’ to the Gas sand bedding material table.

Telecommunications: Backfill the telecommunications conduit, haunch, side and overlay zones with select cohesive site material which is free from stones larger than 20mm and free from root zone material.

Sequence: Commence backfilling and compaction at the pipe or wall to confine future backfill material.
1.4.4.3 **Backfilling**

Trench backfill material: Backfill the trench from the top of the overlay zone to the underside of the subgrade, or selected material zone with General Fill in conformance with MITS 02B Bulk earthworks. The backfill shall be free from stones larger than 100mm compacted to the density of the adjacent undisturbed ground or to 90% of modified maximum dry density. Unless otherwise specified, replace stripped topsoil at least 100mm deep.

1.4.5 **Conduit installation**

1.4.5.1 **General**

Requirement: Lay conduits in straight lines parallel or normal to the carriageway and avoiding unnecessary bends.

Identification: Identify all conduits in conformance with AS 1345 and AS/NZS 3000.

Bends: Where required, long radius bends shall be provided. The total bending radii on a single run between two pits shall not exceed 90 degrees.

Drawing cables: Install all conduits and fittings before commencing drawing in of cables.

Conduits not in use: Provide a draw cord for the full length of the conduit and 1 m past either end coiled.

Layout of each conduit within the trench: In conformance with the Underground Services Shared Trench Agreement and AS/NZS 3000 clause 3.11.

Conduits under roads and other objects: > 1m beyond.

Cap conduits: Provide a non perishable removable cover before backfilling.

Conduit installation tolerance: Conform to the following:

- ± 50mm of design line.
- + 20mm of minimum cover.

Entry into pits and footings: Provide large sweep bends for entry into junction pits and light pole footings. Do not provide more than 180° total change of direction in any run of conduit between pits. Install conduits with ≤ 2 right angled bends for each cable draw-in run.

Termination of conduit in post concrete footings: Terminate > 25mm inside the recess in the concrete footing.

Cover: > 600mm and < 800mm below finished level. If > 600mm cannot be achieved encase in concrete in conformance with AS/NZS 3000 clause 3.11.4.4.

Surround: Provide clean sharp sand ≥ 150mm around cables and conduits installed underground.

1.4.5.2 **Marking**

Marking tape: Lay at approximately 50% of the depth of the conduit and at conduit bends.

Marks in kerb: Route a mark in the face of kerb on both sides of the road indicating the location of the conduit crossing in conformance to the following:

This is a **WITNESS POINT**.

- Electrical: The letter ‘E’.
- Telecommunications: The letter ‘T’.
- Height of lettering: 100mm.
Warning tape: Supply and install warning tape where required by the service authority.

Temporary markers: If kerb and gutter construction has not commenced, install temporary timber post markers at the conduit crossings so that markings in the face of kerb can be made at the correct locations at the time of kerb and gutter construction.

1.4.5.3 Joints
Non metallic: Make sure joints are clean of dirt and grease and burrs before cementing together. Provide a solvent cement weld as recommended by the manufacturer and service authority.

Metallic: Provide threaded couplings with a minimum 25mm length of thread on the end of a conduit or conduit bend.

Flexible conduit: Provide proprietary fittings.

1.4.6 Pit installation

1.4.6.1 General
Termination for conduits to pits: Provide a drilled hole into the pit < 10mm larger than the outside diameter of the conduit. Turn end of conduits upwards and protrude 50mm into the pit. Seal around the conduit with an approved flexible sealant. Smooth and free from burrs the end of the conduits.

Pits: Install pits to conform to the following:

> Set flush with the finished level of the surrounding area.
> Shape surrounding area to prevent ponding within 1m of the pit.
> Numbered.

Location of electrical pits: As shown on the drawings and the following as required:

> Within 4m of service points for earthing.
> At all junctions and sharp changes in direction of conduits.
> Adjacent to poles.
> Draw in pit every 50m.

Pit collars: Provide for circular pits before compaction of the backfill material.

Pits installed on batter slopes: Do not install pits on slopes steeper than 3H: 1V unless otherwise shown on the drawings.

Bedding: 5mm nominal size screened aggregate of > 150mm thick.

Drain: Provide drainage in each pit as follows:

> Drain type: UPVC drain.
> Diameter: 50mm.
> Grade: Grade the drain to a stormwater drainage pit or discharge through an embankment batter.
1.4.7  Finishing

1.4.7.1  General
Pits: Clean of debris and fit lids securely.

This is a WITNESS POINT.

1.5  Completion

1.5.1  Submissions
Work as Executed Records: To MITS 00B Quality Requirements.

2  MEASUREMENT AND PAYMENT

2.1  Measurement

2.1.1.1  General
Payments made to the Bill of Quantities: To MITS 00A General requirements, this Specification, the drawings and Pay items.

2.1.1.2  Methodology
The following methodology will be applied for measurement and payment:

> Allow for all work, materials, testing and quality assurance requirements in each Pay Item.
> Miscellaneous minor concrete work is not included in the Pay Items in this Specification: To MITS 10 Concrete works.
> Erosion and sedimentation control: To MITS 00C Control of erosion and sedimentation.
> Backfilling under roads, paths and driveways: To MITS 03H Road openings and restorations.
> Road crossings for service conduits: Constructed and paid as separate service trenches, not within shared trenches.
> All costs associated with removal of water from excavations shall be included within respective excavation rates
## 2.2 Pay items

### Table 3G-6 Pay Items Table

<table>
<thead>
<tr>
<th>Item No</th>
<th>Pay items</th>
<th>Unit of measurement</th>
<th>Schedule of rates scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>3G.1</td>
<td>Trenching for Service Authorities</td>
<td>Linear metre of excavated trench</td>
<td>All activities associated with trenching for service authorities including liaison and coordination, excavation in all types of material encountered including rock, over excavation for bedding, shoring, supply, placement and compaction of bedding and backfill, additional excavation at structures and warning tape. The trench width and depth shall be as specified in the Drawings or by the service authorities and shall vary depending on the number of services in each trench. This pay item shall include the supply, placement and compaction of sand bedding and sand cover in accordance with the Drawings and this specification. This pay item does not include the cost of supply and installation of conduits or cabling and backfill required under roads, paths and driveways. A separate pay item shall be included in the Contract for each trench type. For example; 3G.1.1 HV Electrical only 3G.1.2 2 way Shared trench with gas and telecommunications 3G.1.3 3 way Shared trench with electricity, gas and telecommunications Etc...</td>
</tr>
<tr>
<td>3G.2</td>
<td>Conduit provision in a shared trench</td>
<td>Linear meter of conduit installed</td>
<td>All activities extra over trenching for service authorities associated with conduit provision in a shared trench including supply and installation of street lighting, NBN or electrical conduits. This pay item shall include the supply and installation of draw wire, cable protection, long radius 90° bends and warning tape in accordance with the Drawings and this specification. A separate pay item shall be included in the Contract for each size of conduit. For example; 3G.2.1 23mm dia PVC (NBN) 3G.2.2 100mm dia PVC 3G.2.3 125mm dia PVC Etc...</td>
</tr>
<tr>
<td>Item No</td>
<td>Pay items</td>
<td>Unit of measurement</td>
<td>Schedule of rates scope</td>
</tr>
<tr>
<td>---------</td>
<td>-----------</td>
<td>---------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>3G.3</td>
<td>Gas Conduits</td>
<td>Linear metre of excavated trench measured along the centreline.</td>
<td>All activities associated with the construction of gas conduits including excavation of trenches in all types of material encountered including rock, over excavation for bedding, shoring, additional excavation at structures, bedding, conduits, laying, jointing, backfilling, and compaction. This pay item shall include the supply and installation of draw wire, warning tape, sand bedding and sand cover in accordance with the Drawings and this specification. This pay item shall not be used for shared trenches. A separate pay item shall be included in the Contract for each conduit size and trench configuration.</td>
</tr>
<tr>
<td>3G.4</td>
<td>Telecommunications Conduits</td>
<td>Linear metre of excavated trench measured along the centreline.</td>
<td>All activities associated with the construction of telecommunications conduits including excavation of trenches in all types of material encountered including rock, over excavation for bedding, shoring, additional excavation at structures, bedding, conduits, laying, jointing, backfilling, and compaction. This pay item shall include the supply and installation of draw wire, warning tape, sand bedding and sand cover in accordance with the Drawings and this specification. This pay item shall not be used for shared trenches. A separate pay item shall be included in the Contract for each conduit size and trench configuration.</td>
</tr>
<tr>
<td>3G.5</td>
<td>Electrical Conduits</td>
<td>Linear metre of excavated trench measured along the centreline.</td>
<td>All activities associated with the construction of electrical conduits including excavation of trenches in all types of material encountered including rock, over excavation for bedding, shoring, additional excavation at structures, bedding, conduits, laying, jointing, backfilling, and compaction. This pay item shall include the supply and installation of draw wire, cable protection, long radius 90° bends and warning tape in accordance with the Drawings and this specification. This pay item shall not be used for shared trenches. A separate pay item shall be included in the Contract for each conduit size and trench configuration.</td>
</tr>
<tr>
<td>Item No</td>
<td>Pay items</td>
<td>Unit of measurement</td>
<td>Schedule of rates scope</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------</td>
<td>---------------------</td>
<td>--------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>configuration. For example;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[3G.1.1] 1 x 50mm Street lighting</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[3G.1.2] 2 x 125mm Electrical</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[3G.1.3] 6 x 125mm Electrical</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Etc...</td>
</tr>
<tr>
<td>3G.6</td>
<td>End caps</td>
<td>Number</td>
<td>All activities associated with the construction of end caps for dead ends on conduits including supply and installation of an end cap, marker tape and marker stake. A separate pay item shall be included in the Contract for each size of conduit. For example;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[3G.6.1] 23mm dia PVC (NBN)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[3G.6.2] 100mm dia PVC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[3G.6.3] 125mm dia PVC</td>
</tr>
<tr>
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<td>Etc...</td>
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<tr>
<td>3G.7</td>
<td>Installation of NBN Pit</td>
<td>Number</td>
<td>All activities associated with the construction of NBN pits including excavation in all types of material encountered including rock, over excavation for bedding, shoring, supply and placement of bedding, pits and covers. This pay item shall include levelling of pits, backfilling and compaction around the pit. A separate Pay Item shall be included in the Contract for each pit size. For example;</td>
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<td>[3G.7.1] P5</td>
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<td>[3G.7.2] P6</td>
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<td>Etc...</td>
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