

Inspection and test plan – electrical conduit installation

**Project no.**  CC0398 **Project name**  VIVA Energy ULSG **Approved by**  Ari Birch

**ITP no.**  ITP014 **Revision no.**  1 **Revision date** 06/05/2024 **Plant and equipment used** Excavators, Bobcats, Moon Buggy, Watercart

# Lot no. Estimated qty Location (chainages, detailed description or marked up plan)

Attach Dockets, Certificates and QA Documents to ITP

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | **Verify or test by** | | | | **Remarks / record (eg. test frequency, reports, certificates, checklist etc)** |
| **Symal Infrastructure** | | **VIVA** | |
| **Item no.** | **Activity** | **Ref docs** | **Acceptance criteria** | **Frequency** | **Key** | **Sign date** | **Key** | **Sign date** |
| **1.0 Pre-start activities** | | | | | | | | | |
| **1.1** | Set out | Composite Drawings | Is the position of the pipe in accordance with the drawings?  IFC and latest available revision used? | * Yes ☐ No ☐ N/A | H |  | W |  |  |
| **1.2** | IFC Submission & Approval | Composite Drawings | Is IFC Construction Drawing and Most Current Revision Approved by the client? | * Yes ☐ No ☐ N/A | H |  | H |  |  |
| **1.3** | Permits | Symal Safety Procedure | Have the below permits been created.  -GPP  -Working at Heights  -Hot Works  -Confined Space | * Yes ☐ No ☐ N/A | H |  | W |  |  |
| **1.4** | Determine Lot Size |  | Has the lot size been determined? | * Yes ☐ No ☐ N/A | S |  | W |  | * LOT map |
| **1.5** | Delivered materials |  | Has a material inspection checklist been completed?  Have the materials and tag numbers/heat numbers been verified? | * Yes ☐ No ☐ N/A | W |  | W |  | * Material Inspection Checklist |
| **1.6** | Electrical and Earthing Pre- Qualification | 235929- MG1668-CV- 003-SUBC-  000181 | Welding procedures, equipment to be used, welding qualifications and calibration of welding machines to be submitted and approved by the client, has this been completed? | * Yes ☐ No ☐ N/A | H |  | H |  | * Welding Qualifications |
| **1.7** | Backfill Materials Approval | 235929- MG1668-CV- | Has bedding and backfill materials been approved for use? | * Yes ☐ No ☐ N/A | H |  | H |  | * Approval number: ---   ------------------------------ |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | **Verify or test by** | | | | **Remarks / record (eg. test frequency, reports, certificates, checklist etc)** |
| **Symal Infrastructure** | | **VIVA** | |
| **Item no.** | **Activity** | **Ref docs** | **Acceptance criteria** | **Frequency** | **Key** | **Sign date** | **Key** | **Sign date** |
|  |  | 003-SUBC-  000063 |  |  |  |  |  |  |  |
| **2.0 Excavation and Placement** | | | | | | | | | |
| **2.1** | Service Location | DBYD &  Services marked on current IFC drawings (if applicable) | Current DBYD documents received and works executed by qualified service locator | * Yes ☐ No ☐ N/A | H |  | S |  |  |
| **2.2** | Excavation | 235929-000- CV-SP- 00006 UG PIPE FAB and INSTALL  Section 12.1.12 | Excavation shall be to depth adequate to provide full specified bedding depth of 100mm.  Trench width to provide 50mm from edge of trench to conduit walls at minimum.  Earthworks for trenches shall be done in accordance with standard drawing, has this been  completed? | * Yes ☐ No ☐ N/A | W |  | S |  |  |
| **2.3** | Conduit materials and size | 235929- MG1668-CV- 003-SUBC-  000112  (Shop Drawings  235929- MG1668-CV- 003-SUBC-  000009 (UG  Services AMS)  235929-154- CV-08- 92002-  080001  (Rev1) | Are the HDPE conduits approved for use?  Have the conduits been installed using approved couplers?  Has the installation of the couplers been reviewed by the client?  Has the bend radii been checked and adheres to the drawing? | * Yes ☐ No ☐ N/A | W |  | H |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | **Verify or test by** | | | | **Remarks / record (eg. test frequency, reports, certificates, checklist etc)** |
| **Symal Infrastructure** | | **VIVA** | |
| **Item no.** | **Activity** | **Ref docs** | **Acceptance criteria** | **Frequency** | **Key** | **Sign date** | **Key** | **Sign date** |
|  |  | &080002  (Rev1) &080005  (Rev2) |  |  |  |  |  |  |  |
| **2.4** | Conduit placement | 235929-154- CV-08- 92002-  080001  (Rev1) & 080002  (Rev1) & 080005  (Rev2) | Have the Conduits have been placed as per drawings and specifications and inspected by a VIVA representative? | * Yes ☐ No ☐ N/A | H |  | H |  |  |
| **2.5** | Backfill placement & Marker Tape & Rope | 235929-000- CV-SP- 00002 | Have all trenching works been recorded for as- built and digital data prior to backfilling?   * Yes ☐ No   Has bedding material/sand been placed for the full width of the trench over the conduits for a minimum cover depth of 200mm?   * Yes ☐ No   Has marker tape been placed in-line and above the conduits on the surface of the sand layer?   * Yes ☐ No   Has draw rope been installed through the conduit?   * Yes ☐ No | * Yes ☐ No ☐ N/A | W |  | R |  | * Photos |
| **3.0 Finishing** | | | | | | | | | |
| **3.1** | Clean-up of site |  | Have the areas affected by the works been restored to a condition similar to that which existed prior to the commencement of the work?   * Yes ☐ No | Ongoing | S |  | S |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | **Verify or test by** | | | | **Remarks / record (eg. test frequency, reports, certificates, checklist etc)** |
| **Symal Infrastructure** | | **VIVA** | |
| **Item no.** | **Activity** | **Ref docs** | **Acceptance criteria** | **Frequency** | **Key** | **Sign date** | **Key** | **Sign date** |
| **3.2** | Identification and recording |  | Have the actual installed location and depth of the conduits, and location of pits, been accurately recorded on an as-built?   * Yes ☐ No | Ongoing | S |  | H |  | * As-built |
| **3.3** | Work is complete and complies with design plans / drawings / specs |  | Redline mark-ups As-Built Survey:  Conduits to conform to the required depths and  locations. |  | H |  | H |  | * As-built |
| 3.4 | Certificate of electrical safety |  | Electrician to supply Certificate of electrical safety for conduit installation witnessed | Completion of works | H |  | H |  | Certificate of electrical safety |

Works complete (signed SS) Date works complete

Lot conforms (signed PE) Date lot closed

NCR(s) no. raised Date NCR closed for this lot

**Responsibility (Resp.) Key:** PM-Project Manager, SPE-Senior Project Engineer, SE- Site Engineer, SS-Site Supervisor, SV-Surveyor

# Lot acceptance:

Symal Infrastructure representative name VIVA representative name

Symal Infrastructure representative signature VIVA representative signature

**Inspection key: W –** Witness, **H –** Hold Point, **S -** Surveillance