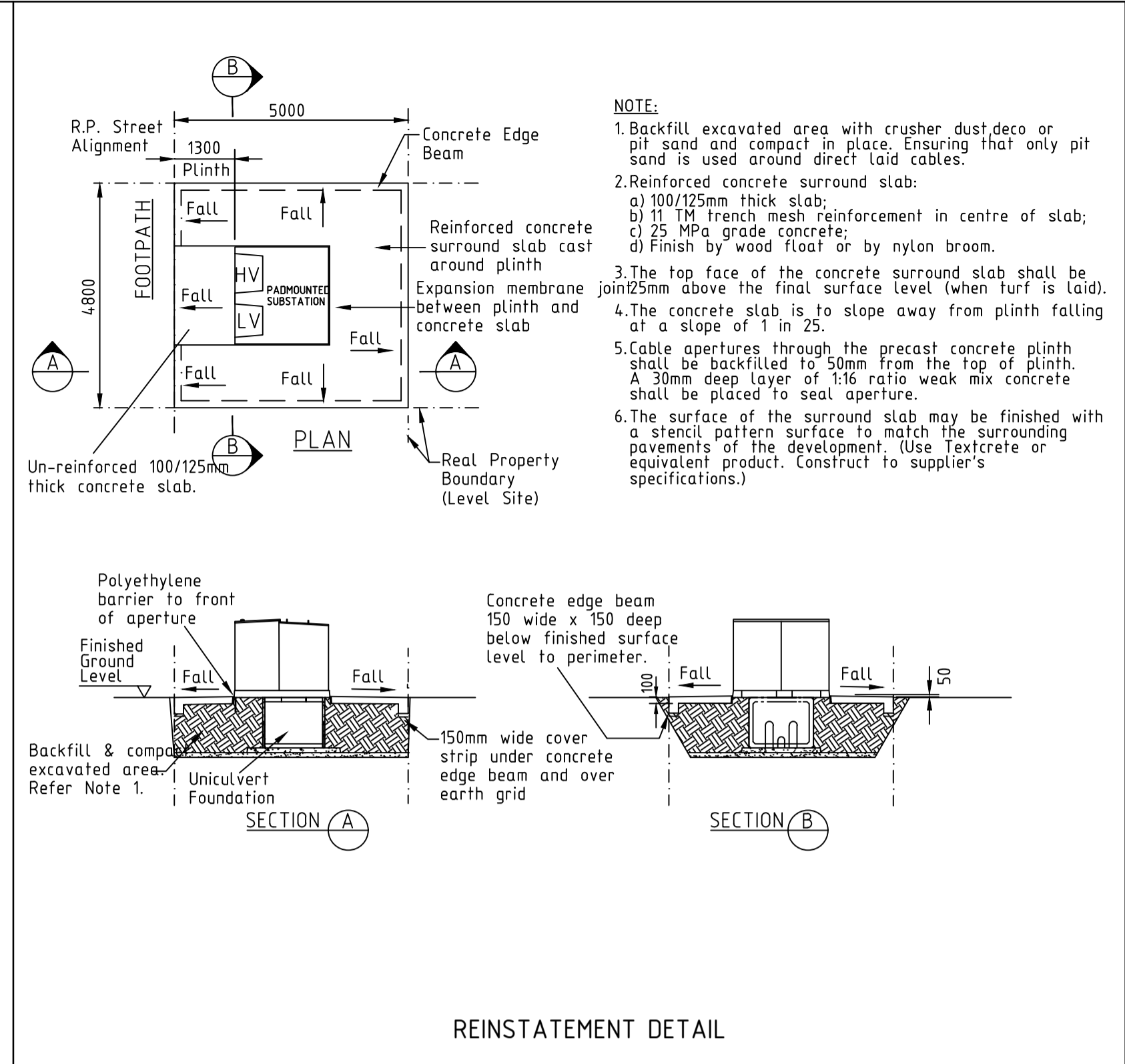
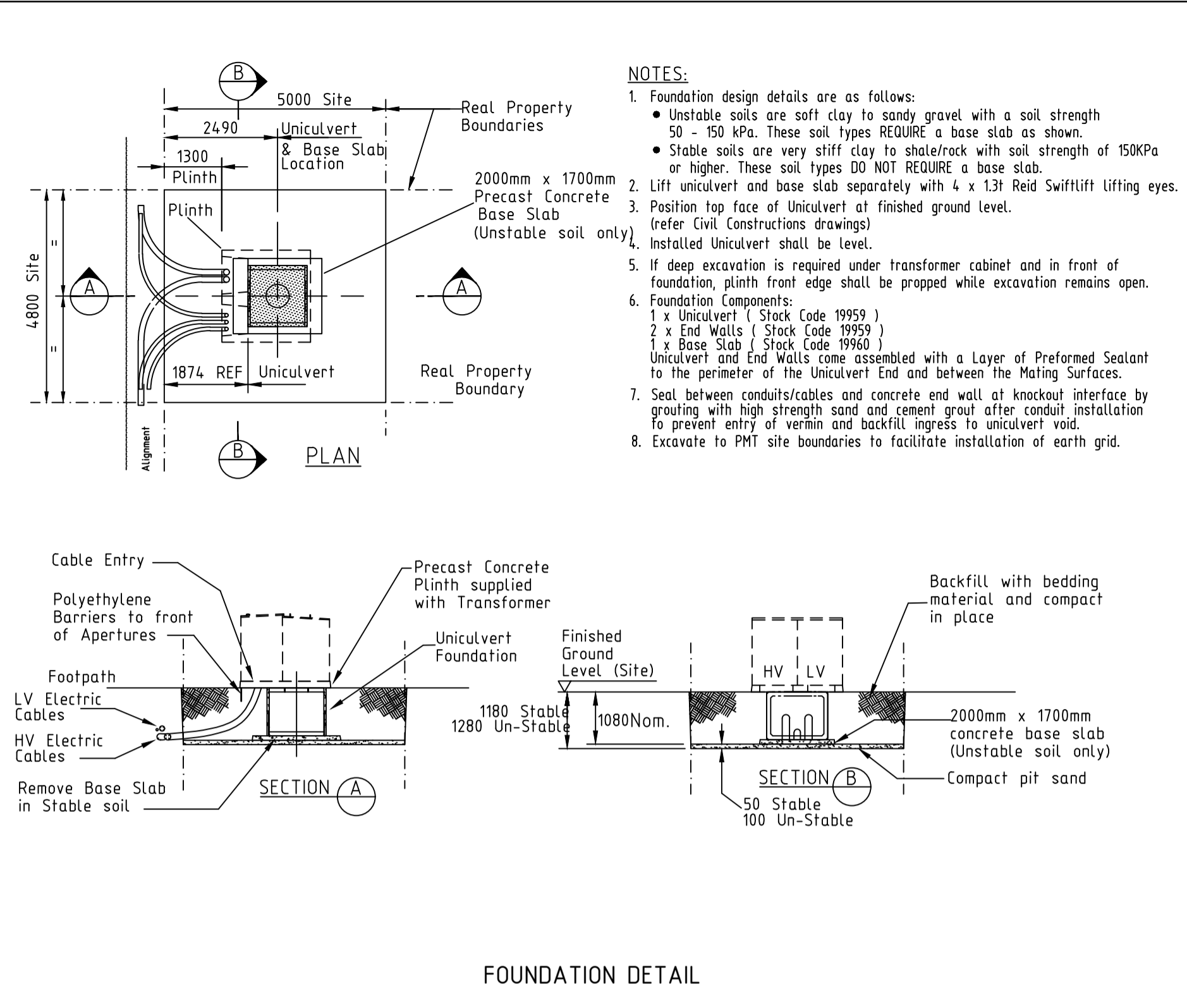


REQUIRED TASKS	DATE COMPLETED	CHECKED BY
CUSTOMER RESPONSIBILITIES	YES	NO
24 HOUR ACCESS PROVIDED.		
PADMOUNTED SUBSTATION SITE IS LEVEL.		
RETAINING WALLS (INCL. RPEQ APPROVAL IF REQUIRED).		
PADMOUNTED SUBSTATION SITE IS CLEAR OF ALL SERVICES.		
CORRECT FOUNDATION INSTALLED.		
CONDUITS ARE INSTALLED (INCLUDING BUNGES & DRAW WIRES)		
CONDUITS TRENCHES BACKFILLED & COMPACTED.		
FENCES INSTALLED.		
HAVE 2000mm DEDICATED CLEAR ZONE IN FRONT OF PLINTH.		
CUSTOMER RESPONSIBILITIES		
SITE BACKFILLED & COMPACTED (INCLUDING UNDER PLINTH)		
BOUNDARY SURROUND & SITE SURFACE CONCRETED.		
AREA SUITABLY DRAINED (NO PONDING)		
SITE CLEANED-UP NEATLY.		

NOTE: x if applicable.



Cable conduit shall be of the following type; 125mm Dia UPVC Light Duty Rigid Pressure pipe to AS/NZS2053. Conduit bends shall have a minimum radius of 1830mm.

The conduits shall be laid in a straight line with sealed joints. Should any deviation be required in conduit route, 1830mm radius bends shall be used. Bends shall not be greater than 30 degrees. Cable pits shall be used for greater deviations. Refer to ENEREX Planner for details.

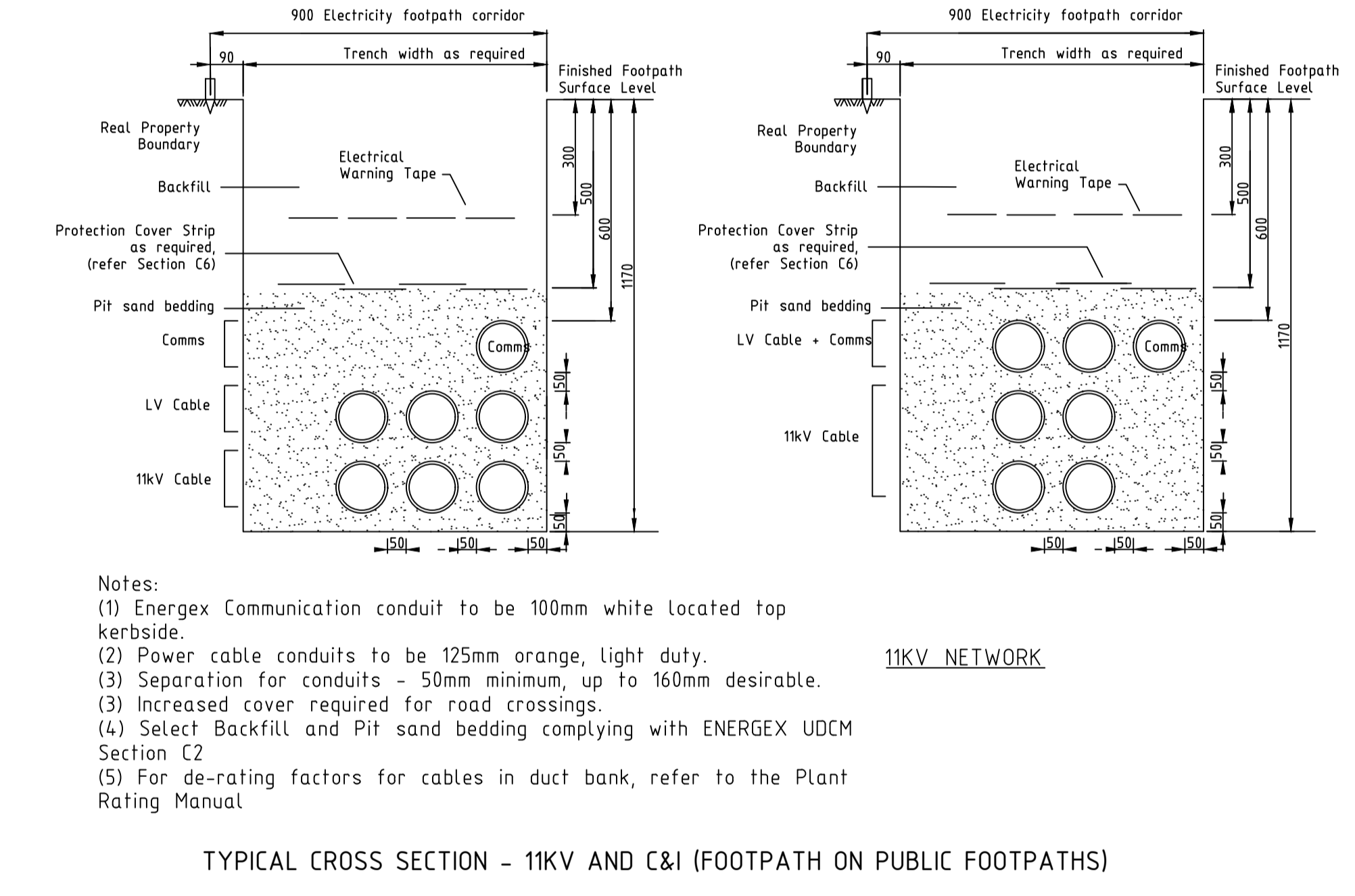
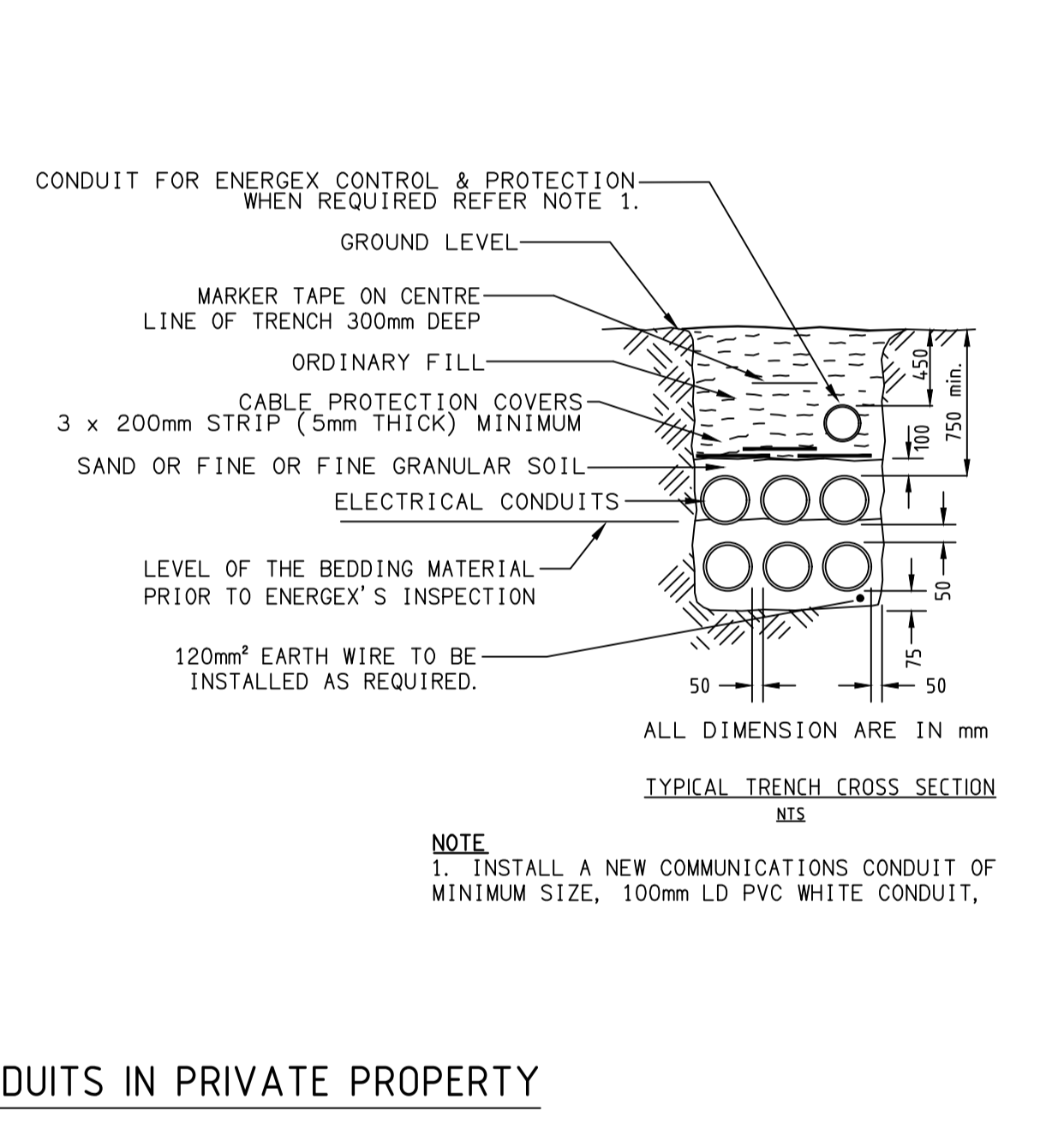
The conduits shall have 750mm minimum cover and shall be bedded on compacted sand or fine granular soil free of rocks. The socket ends of conduits shall finish 150mm beyond the R.P. alignment and shall have 750mm min cover below finished footpath level at the R.P. alignment. A beltmouth shall be provided where the conduits terminate in the substation wall or wall of a substation trench. A 2.5mm plastic coated steel draw wire or 6mm braided Polypropylene Rope "BORAL KA10850" shall be installed in each conduit (1kN min. breaking strength).

Because of the physical distortion likely in large groups of buried UPVC conduits, High Density conduits shall be used for groups of more than 6 conduits. Conduits shall be 125mm or 150mm as specified by ENEREX and shall be supplied and installed by the developer. Conduits shall be securely sealed by builder to prevent ingress of dirt until cable installation by ENEREX and then resealed by ENEREX.

ENEREX may need to install an earth wire and earth rods in conduit trenches from the substation site.

Electricity Supply Conduits and Cables shall have polymeric cable protection covers placed 100mm above the top conduit face of the electricity supply conduits and cables. Cable protection cover strips shall be lapped when placed together; 100mm minimum along the longitudinal axis, 40mm minimum along the traverse axis and shall extend 40mm minimum past the external edges of the conduit/cable bank.

Polymeric cable protection cover shall be a minimum of 5mm thick as described in Australian Standard; AS/NZS 4702 for Polymeric Cable Protection Covers.



NOTES:

- CABLE CONDUIT SHALL BE OF THE FOLLOWING TYPE: LIGHT DUTY ELECTRICAL CONDUIT TO AS/NZS 2053. CONDUIT BENDS SHALL HAVE A MINIMUM RADIUS OF 1830mm.
- CONDUITS SHALL BE 125mm ORANGE FOR ELECTRICAL AND 100MM WHITE LOCATED TOP KERBSIDE AS SPECIFIED BY ENEREX AND SHALL BE SUPPLIED AND INSTALLED BY THE DEVELOPER OR ENEREX. CONDUITS SHALL BE SECURELY SEALED TO PREVENT INGRESS OF DIRT UNTIL CABLE INSTALLATION AND THEN RESEALED.
- EACH CONDUIT TO BE FITTED WITH A 6mm BRAID POLYPROPYLENE DRAW ROPE TO PULL IN HAULAGE ROPE. (MINIMUM BREAKING STRENGTH OF 1.0kN.)
- ENEREX MAY NEED TO INSTALL AN EARTH WIRE AND EARTH RODS IN CONDUIT TRENCHES FROM THE SUBSTATION SITE.
- ELECTRICITY SUPPLY CONDUITS AND CABLES SHALL HAVE POLYMERIC CABLE PROTECTION COVER STRIPS PLACED 100mm ABOVE THE TOP CONDUIT FACE OF THE ELECTRICITY SUPPLY CONDUITS AND CABLES. CABLE PROTECTION COVER STRIP SHALL BE LAPPED WHEN PLACED TOGETHER; 100mm MINIMUM ALONG THE LONGITUDINAL AXIS, 40mm MINIMUM ALONG THE TRAVERSE AXIS AND SHALL EXTEND 40mm MINIMUM PAST THE EXTERNAL EDGES OF THE CONDUIT/CABLE BANK.
- POLYMERIC CABLE PROTECTION COVER SHALL BE A MINIMUM OF 5mm THICK AS DESCRIBED IN THE AUSTRALIAN STANDARD; AS4702 FPR POLYMERIC CABLE PROTECTION COVERS.
- REDUCED CONDUIT SEPARATION MAY BE ACCEPTED TO AVOID SPECIFIC OBSTACLES
- MIN. DEPTHS SHOWN ARE THOSE DEPTHS REQUIRED BY CODE OF PRACTICE, WORKS (MINOR ROADS) AND DMR (ARTERIAL ROADS).

Note
ENEREX will not commission the transformer until the transformer site has been completed to ENEREX specifications (including the concrete surround).

ENEREX specifications for construction of the transformer site and installation of conduits on private property are available at the following web address:
https://swp.enerex.com.au/service_providers/technical_docs/asp/technical_documents.asp

Underground Distribution Construction Manual 00305 v16
Section C1 - Conduits
Section C2 - Excavations & Reinstatements
Section C3 - Padmount Transformer Sites

Commercial and Industrial Substations Manual 00293 v11
Section 14 - Drawing 11040-A4-14-33 Sht 2

The site contractor is to refer all substation construction queries to their electrical consultant.

CULVERT INSPECTION REQUIRED BEFORE TRANSFORMER IS DELIVERED - 5 BUSINESS DAYS PRIOR NOTICE NEEDED.
CONTACT _____ PH: _____ EMAIL: _____

TRANSFORMER WILL NOT BE ENERGISED UNTIL ALL REQUIREMENTS ARE MET.

ELECTRICAL DESIGN GROUP
ELECTRICAL BUILDING SERVICES CONSULTANTS
BRISBANE GOLD COAST

P.O. Box 15, Sherwood Q.4075
Phone: (07) 3278 4375
Email: brisbane@edg.net.au
Web: www.edg.net.au

PROJECT: TOOWONG KIA & MITSUBISHI
601 MILTON ROAD, TOOWONG

ENERGEX ACCEPTANCE

NAME: _____
OFFICE: _____
SIGNED: _____
DATE: / /

ENERGEX takes no responsibility for the accuracy of the information provided on this drawing

BEFORE YOU DIG
www.byda.com.au