

- Change of Grade
- Fence
- Sewer Manhole
- Sewer Connection
- Sewer Main
- Stormwater Manhole
- Stormwater Gully Pit
- Stormwater Main
- Roofwater Pit
- Roofwater Pipe
- Water Valve/Hydrant
- Water Reticulation
- Water Meter Location
- Retaining Wall
- Retaining Wall
- Contour Interval 0.5m

NOTE:
This plan is a combination of the formal as constructed plans prepared and issued by Norris Clarke & O'Brien as part of the submission to the relevant authorities.
At all times the formal survey plan and formal as constructed plans should be used for the detail information required for any development on the lots.
This note is an integral part of this plan.

MINNIPPI PARKLANDS

Description

STAGE 3 LOTS

SEE SP282794 for lot dimensions and areas

Scale in Metres

1:500 at A1

Norris Clarke & O'Brien Pty Ltd

Licensed Surveyors

Town Planners

Development Consultants

Level 1 - Aldi Centre, 12 Bishop Street

Kelvin Grove QLD 4059

ph: 07 3012 0000 fax: 07 3012 0099

email: info@ncob.com.au

ACN 056 870 770 ABN 15 056 870 770

COMP FILE

6622AC-ST3-ALL-170614.DWG

ISSUE:

A

Date

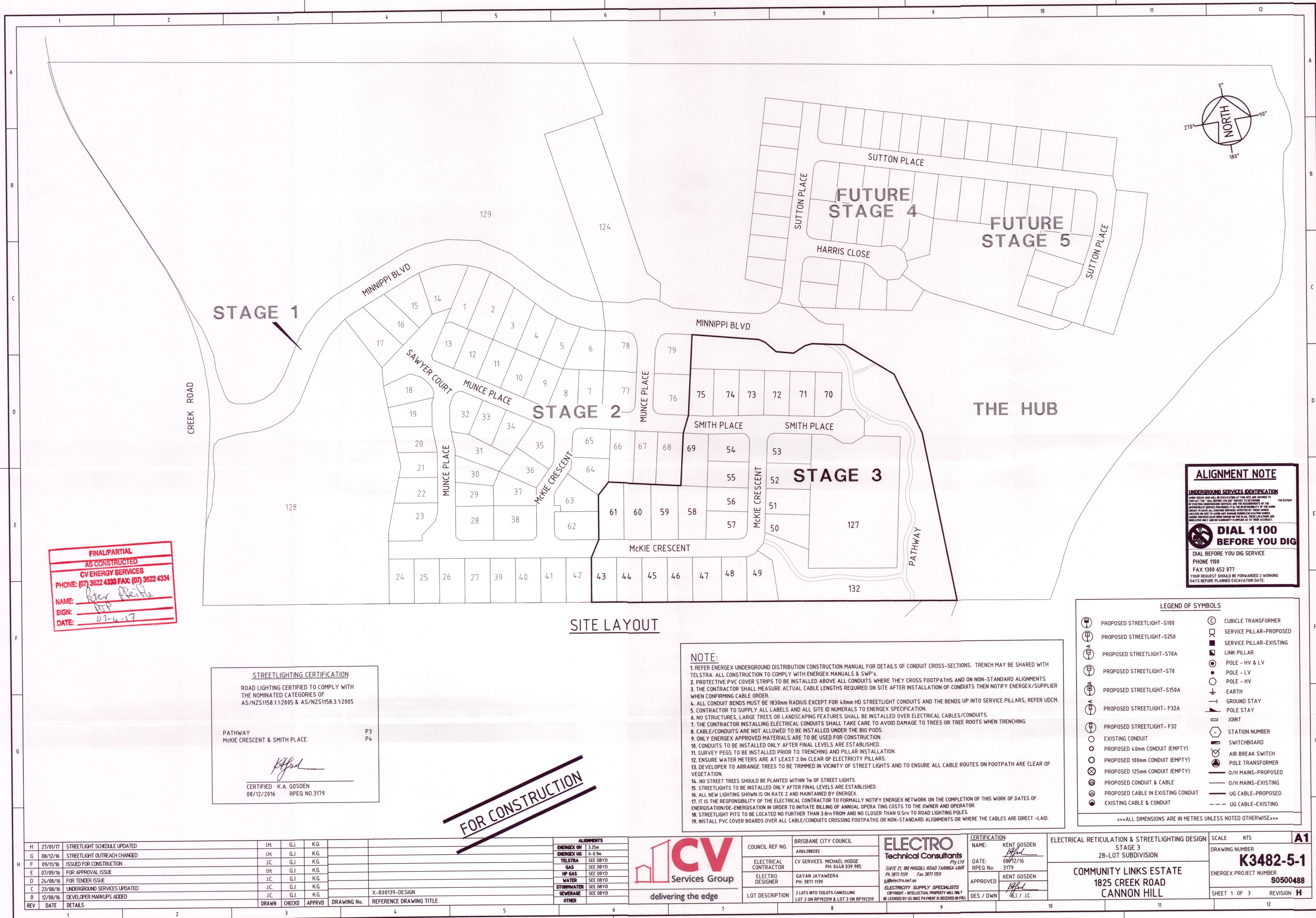
14/06/2017

Ref.

6622S3

Datum for Levels AHD
Levelled from PSM No.6723..RL23.531m AHD

| | | |
|-------|----------------|---------|
| | | |
| A | ORIGINAL ISSUE | 14/6/17 |
| ISSUE | DESCRIPTION | DATE |



FINAL/PARTIAL
AS CONSTRUCTED
CV ENERGY SERVICES
PHONE: (07) 3622 4338 FAX: (07) 3622 4334
NAME: Peter Reiff
SIGN: PPR
DATE: 07-11-17

STREETLIGHTING CERTIFICATION
ROAD LIGHTING CERTIFIED TO COMPLY WITH
THE NOMINATED CATEGORIES OF
AS/NZS1158.1:2005 & AS/NZS1158.3:2005

PATHWAY
McKIE CRESCENT & SMITH PLACE
P3
P4

K.A. Gosden
CERTIFIED 08/12/2016 RPEQ NO.3179

FOR CONSTRUCTION

SITE LAYOUT

NOTE:
1. REFER ENERGEX UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL FOR DETAILS OF CONDUIT CROSS-SECTIONS. TRENCH MAY BE SHARED WITH TELSTRA. ALL CONSTRUCTION TO COMPLY WITH ENERGEX MANUALS & SWP's.
2. PROTECTIVE PVC COVER STRIPS TO BE INSTALLED ABOVE ALL CONDUITS WHERE THEY CROSS FOOTPATHS AND ON NON-STANDARD ALIGNMENTS.
3. THE CONTRACTOR SHALL MEASURE ACTUAL CABLE LENGTHS REQUIRED ON SITE AFTER INSTALLATION OF CONDUITS THEN NOTIFY ENERGEX/SUPPLIER WHEN CONFIRMING CABLE ORDER.
4. ALL CONDUIT BENDS MUST BE 1830mm RADIUS EXCEPT FOR 40mm HD STREETLIGHT CONDUITS AND THE BENDS UP INTO SERVICE PILLARS, REFER UDCM.
5. CONTRACTOR TO SUPPLY ALL LABELS AND ALL SITE ID NUMERALS TO ENERGEX SPECIFICATION.
6. NO STRUCTURES, LARGE TREES OR LANDSCAPING FEATURES SHALL BE INSTALLED OVER ELECTRICAL CABLES/CONDUITS.
7. THE CONTRACTOR INSTALLING ELECTRICAL CONDUITS SHALL TAKE CARE TO AVOID DAMAGE TO TREES OR TREE ROOTS WHEN TRENCHING.
8. CABLE/CONDUITS ARE NOT ALLOWED TO BE INSTALLED UNDER THE BIO PODS.
9. ONLY ENERGEX APPROVED MATERIALS ARE TO BE USED FOR CONSTRUCTION.
10. CONDUITS TO BE INSTALLED ONLY AFTER FINAL LEVELS ARE ESTABLISHED.
11. SURVEY PEGS TO BE INSTALLED PRIOR TO TRENCHING AND PILLAR INSTALLATION.
12. ENSURE WATER METERS ARE AT LEAST 2.0m CLEAR OF ELECTRICITY PILLARS.
13. DEVELOPER TO ARRANGE TREES TO BE TRIMMED IN VICINITY OF STREET LIGHTS AND TO ENSURE ALL CABLE ROUTES ON FOOTPATH ARE CLEAR OF VEGETATION.
14. NO STREET TREES SHOULD BE PLANTED WITHIN 7m OF STREET LIGHTS.
15. STREETLIGHTS TO BE INSTALLED ONLY AFTER FINAL LEVELS ARE ESTABLISHED.
16. ALL NEW LIGHTING SHOWN IS ON RATE 2 AND MAINTAINED BY ENERGEX.
17. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO FORMALLY NOTIFY ENERGEX NETWORK ON THE COMPLETION OF THIS WORK OF DATES OF ENERGISATION/DE-ENERGISATION IN ORDER TO INITIATE BILLING OF ANNUAL OPERATING COSTS TO THE OWNER AND OPERATOR.
18. STREETLIGHT PITS TO BE LOCATED NO FURTHER THAN 3.0m FROM AND NO CLOSER THAN 0.5m TO ROAD LIGHTING POLES.
19. INSTALL PVC COVER BOARDS OVER ALL CABLE/CONDUITS CROSSING FOOTPATHS OR NON-STANDARD ALIGNMENTS OR WHERE THE CABLES ARE DIRECT -LAID.

ALIGNMENT NOTE
UNDERGROUND SERVICES IDENTIFICATION
WHEN CREATING A NEW SERVICE AT THE SITE, THE SERVICE PROVIDER MUST CONTACT THE "DIAL BEFORE YOU DIG" SERVICE TO DETERMINE THE EXISTENCE OF ANY UNDERGROUND SERVICES AND THE RESPONSIBILITY OF THE WORK. THE SERVICE PROVIDER MUST BE AWARE OF THE LOCATION OF ANY EXISTING SERVICES AND THE RESPONSIBILITY OF THE WORK. THE SERVICE PROVIDER MUST BE AWARE OF THE LOCATION OF ANY EXISTING SERVICES AND THE RESPONSIBILITY OF THE WORK. THE SERVICE PROVIDER MUST BE AWARE OF THE LOCATION OF ANY EXISTING SERVICES AND THE RESPONSIBILITY OF THE WORK.
DIAL 1100 BEFORE YOU DIG
DIAL BEFORE YOU DIG SERVICE
PHONE 1100
FAX 1300 652 077
YOUR REQUEST SHOULD BE FORWARDED 2 WORKING DAYS BEFORE PLANNED EXCAVATION DATE.

| LEGEND OF SYMBOLS | |
|-------------------|------------------------------------|
| | PROPOSED STREETLIGHT-S100 |
| | PROPOSED STREETLIGHT-S250 |
| | PROPOSED STREETLIGHT-S70A |
| | PROPOSED STREETLIGHT-S70 |
| | PROPOSED STREETLIGHT-S150A |
| | PROPOSED STREETLIGHT-F32A |
| | PROPOSED STREETLIGHT-F32 |
| | EXISTING CONDUIT |
| | PROPOSED 40mm CONDUIT (EMPTY) |
| | PROPOSED 100mm CONDUIT (EMPTY) |
| | PROPOSED 125mm CONDUIT (EMPTY) |
| | PROPOSED CONDUIT & CABLE |
| | PROPOSED CABLE IN EXISTING CONDUIT |
| | EXISTING CABLE & CONDUIT |
| | CUBIC TRANSFORMER |
| | SERVICE PILLAR-PROPOSED |
| | SERVICE PILLAR-EXISTING |
| | LINK PILLAR |
| | POLE - HV & LV |
| | POLE - LV |
| | POLE - HV |
| | EARTH |
| | GROUND STAY |
| | POLE STAY |
| | JOINT |
| | STATION NUMBER |
| | SWITCHBOARD |
| | AIR BREAK SWITCH |
| | POLE TRANSFORMER |
| | O/H MAINS-PROPOSED |
| | O/H MAINS-EXISTING |
| | UG CABLE-PROPOSED |
| | UG CABLE-EXISTING |

| REV | DATE | DETAILS | DRAWN | CHECKD | APPRVD | DRAWING No. | REFERENCE DRAWING TITLE |
|-----|----------|------------------------------|-------|--------|--------|-------------|-------------------------|
| H | 27/01/17 | STREETLIGHT SCHEDULE UPDATED | I.H. | G.J. | K.G. | | |
| G | 08/12/16 | STREETLIGHT OUTREACH CHANGED | I.H. | G.J. | K.G. | | |
| F | 09/11/16 | ISSUED FOR CONSTRUCTION | J.C. | G.J. | K.G. | | |
| E | 07/09/16 | FOR APPROVAL ISSUE | I.H. | G.J. | K.G. | | |
| D | 26/08/16 | FOR TENDER ISSUE | J.C. | G.J. | K.G. | | |
| C | 23/08/16 | UNDERGROUND SERVICES UPDATED | J.C. | G.J. | K.G. | | |
| B | 12/08/16 | DEVELOPER MARKUPS ADDED | J.C. | G.J. | K.G. | | |
| REV | DATE | DETAILS | DRAWN | CHECKD | APPRVD | DRAWING No. | REFERENCE DRAWING TITLE |

delivering the edge

BRISBANE CITY COUNCIL
COUNCIL REF. NO. A004288293
ELECTRICAL CONTRACTOR
CV SERVICES MICHAEL HODGE
PH: 0448 939 985
ELECTRO DESIGNER
GAYAN JAYAWERA
PH: 3871 1139
LOT DESCRIPTION
2 LOTS INTO 132 LOTS CANCELLING
LOT 2 ON RP192319 & LOT 3 ON RP192319

ELECTRO
Technical Consultants
Pty Ltd
SUITE 21, 180 HOGGILL ROAD TARRINGA 4068
PH: 3871 1139 Fax: 3871 1139
g@electro.net.au
ELECTRICITY SUPPLY SPECIALISTS
COPYRIGHT - INTELLECTUAL PROPERTY WILL ONLY
BE LICENSED BY US ONCE PAYMENT IS RECEIVED IN FULL

CERTIFICATION
NAME: KENT GOSDEN
DATE: 08/12/16
RPEQ No: 3179
APPROVED: KENT GOSDEN
DES / DWN: G.J. / J.C.

ELECTRICAL RETICULATION & STREETLIGHTING DESIGN
STAGE 3
28-LOT SUBDIVISION
COMMUNITY LINKS ESTATE
1825 CREEK ROAD
CANNON HILL

SCALE: NTS
DRAWING NUMBER: **K3482-5-1**
ENERGEX PROJECT NUMBER: **S0500488**
SHEET 1 OF 3
REVISION: **H**

A1

FOR CONSTRUCTION

- POP

PRIVATELY OPERATED PAYPHONES
- APS

ASSISTANCE TELEPHONES (EG ELEVATOR AND ROADSIDE PHONES)
- MET

APPLY TO OTHER TYPE OF METERING POINT (any service)
- ATM

ATM
- PRK

BANDSTAND / ROTUNDA / SPORTS FIELD STANDS / OTHER PARK BUILDING
- PSD

POINT OF SALE DEVICE (vending machine, ticket machine)
- TRF

Traffic Lights / Traffic Light Controller / Variable Speed Sign / Traffic Signal
- PBT

Public Transport (bus stop, tram stop, railway station, taxi rank, ferry wharf)
- SWT

Links / Link Pole / MV / HV Links / ABC Links / Dynamic Switch / Airbrake Switch / Isolator
- WAT

Water Infrastructure (storage, pumps, valves water supply, waste water, sewerage stations)
- GAS

Natural Gas Infrastructure
- CAM

Camera (security / traffic)
- CTL

Bridge control, swing bridge, traffic control gates, railway boom gates)
- MOB

Mobile Phone Tower / radio antenna
- LIT

Street Lighting Pole / street light controller
- CAR

Unmanned (council) car park
- PWR

Transformer / Kiosk / Pad Mount Sub-station / Pole Mount Transformer

- NAP-ID

Network Access Point (NAP)
- MPT-ID

Multiport (MPT)
n is the number of ports (eg 4,6,8,12)

- TJL-ID

Splice Joint on a Transit Cable (TJL)
- DJL-ID

Splice Joint on a Distribution Cable (DJL)
- LJL-ID

Splice Joint on a Local Cable (LJL)
- MJL-ID

Splice Joint on a Tether Cable (MJL)
- AJL-ID

Zone Terminal / Splice Joint (AJL)
- FDH-ID

Fibre Distribution Hub-FDH Cabinet with Cabinet ID shown
- PIT-ID

2

Service Drop Access Pit
(650mmX280mmX565mm)
- PIT-ID

5

Network Boundary/Local Network Pit (Single Lid)
(700mmX450mmX650mm)
- PIT-ID

8

Distribution/Local Network Connection Pit
(1360mmX555mmX860mm)
- PIT-ID

9

Fibre Distribution Hub (FDH) Pit
(2000mmX555mmX900mm)
- Existing Telstra manhole
- 5

Existing Telstra Pit (2,3,4,5,6,7,8,9)
- Telstra exchange
- Example of Telstra Major Conduit Layout with Proposed duct marked to be used by NBN
- M

< _ >

NBN MARKER POST
MARKER POST TO BE NUMBERED
- DES

QTY

Example of descriptor box that will show the type of work and the quantity involved
- PCD

Premise Connection Device (PCD)
- POLE-ID

Pole (showing pole identity)
- FAN

AAAA

Fan Access Node site (FAN)
- 138A

RX

CX

Multi Dwelling Unit (MDU)

DEPTH --

ALIGN --

DEPTH OVER ALIGNMENT SYMBOL TO BE USED WITH EVERY MARKER POST

X

Symbol to be used when replacing/removing existing network

CABLE TRAY:

CONDUIT CONFIGURATION

CONDUITS AND DUCTS ARE IN LAYER :
< L460 NBN Support - Underground >
AND TERMINOLOGY CATEGORIZED INTO TWO GROUPS IN THE DRAWING AS PER BELOW:
1- DUCT USED WITH LOCAL NETWORK
2-CONDUIT USED WITH LEAD-IN DROPS
ATTRIBUTES ATTACHED ARE AS SHOWN

CONDUIT SIZE

PIT-ID 9

P100

CONDUIT LENGHT

26.5

PIT-ID 5

CABLE CONFIGURATION

CABLE TYPE:
CABLES DIVIDE INTO FOLLOWING CATEGORIES AND ARE COLOUR CODED:
TRANSIT CABLES COLOUR NO: 1 312F
DISTRIBUTION CABLES COLOUR NO: 190 288F
LOCAL CABLES COLOUR NO: 4 144F
TETHER CABLES COLOUR NO: 3 12F
LEAD IN (DROP) CABLES COLOUR NO: 5 1F

CABLE SIZE:
CABLE SIZE IS THE TOTAL NUMBER OF OPTIC FIBRES IN THE CABLE AND IS DETERMINED BY A NUMBER FOLLOWED BY F (FIBRE) OR R (RIBBON) IN THE MIDDLE OF THE LINE TYPE

576F

CABLE LOCATION:
CABLE LOCATIONS DETERMINES WHERE THE CABLE IS USED AS PER BELOW:
IN-CONDUIT 288F
AERIAL 144F
BURIED 96F

EXAMPLE:
144 FIBRE AERIAL LOCAL CABLE 144F
1 FIBRE BURIED DROP CABLE 1F
432 FIBRE IN-CONDUIT TRANSIT CABLE 48F

LINE TYPES ARE CATEGORIZED INTO 3 TYPES:
1- IN-CONDUIT: (XXXXF) 312F , ...
2- AERIAL: (XXXXF_A) 144_A , ...
3- BURIED: (XXXXF_B) 12_B , ...

FSA Boundary

FSAM Boundary

FDA Boundary

STAFF WORKING ON THIS ESTIMATE PLEASE
NOTE: The location of other authorities services which may affect this work have not been obtained by the estimator. Constructor to obtain service information before commencing.



SAFETY FIRST
SAFETY STARTS WITH YOU

ATTENTION
CONSTRUCTORS DO NOT change or alter job specifications unless first checking with designer.

| REV | DATE | DRAFTER | DESCRIPTION | APPROVED |
|-----|----------|-----------------|-------------------------|-------------|
| C | 04/04/17 | KELSEY WILLIAMS | AS CONSTRUCTED | KENT GOSDEN |
| B | 12/10/16 | KELSEY WILLIAMS | ISSUED FOR CONSTRUCTION | KENT GOSDEN |
| A | 16/08/16 | KELSEY WILLIAMS | INITIAL ISSUE | KENT GOSDEN |

NBNCO APPROVAL RECORD:
SIGNATURE DATE

☐ DD
☐ WD
☐ AB

QUALITY RECORD :

NBNCO DISCLAIMER

THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR THE USE OF NBNCO LIMITED (ABN 86 136 533 741) FOR USE IN MAINTAINING NBNCO FACILITIES. IT HAS NOT BEEN CREATED FOR ANY OTHER USE. IT SHOULD NOT BE SCALED TO LOCATE NBNCO ASSETS. NO WARRANTY IS GIVEN THAT THE INFORMATION IS ACCURATE OR COMPLETE.

NBNCo Limited

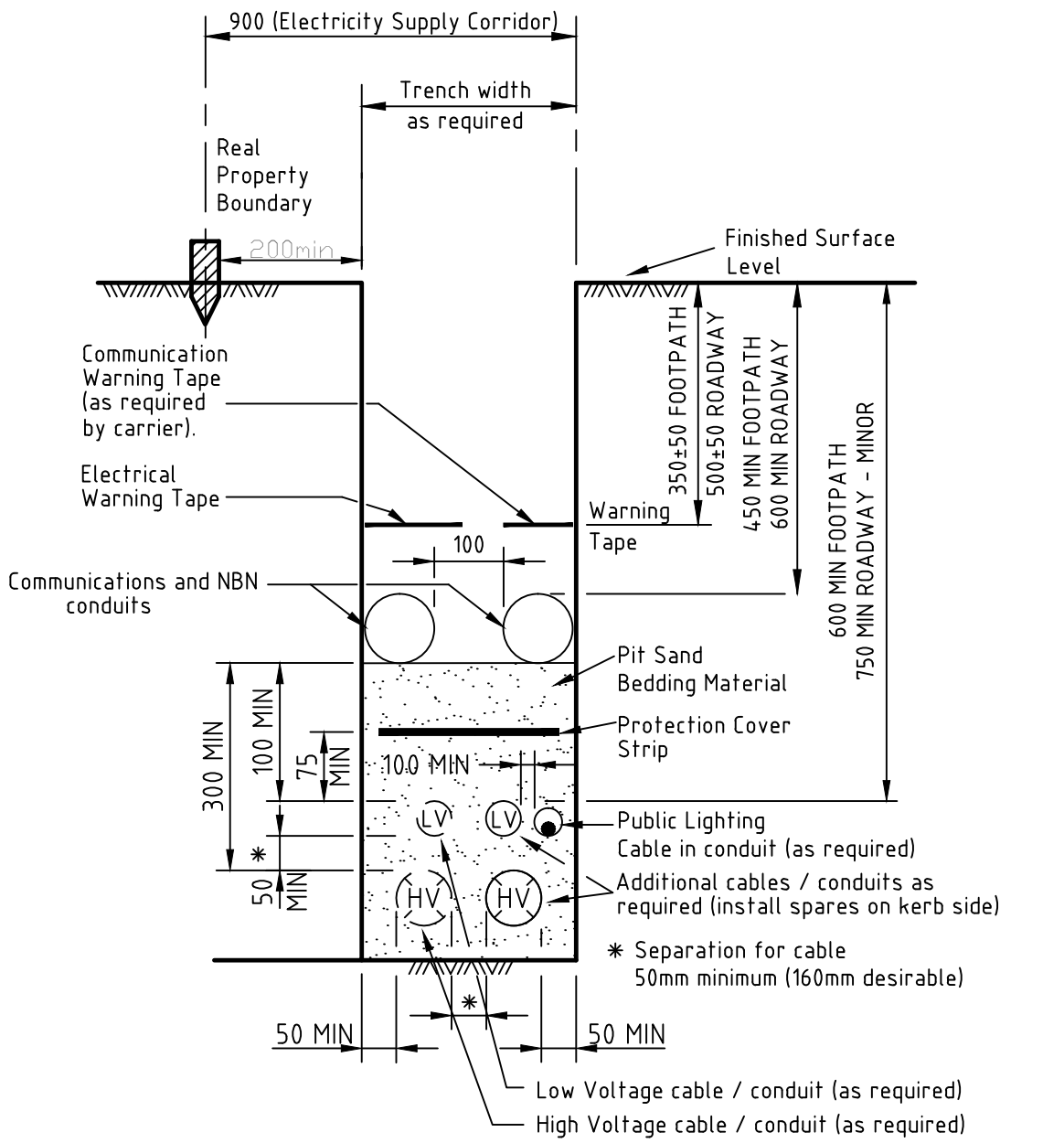
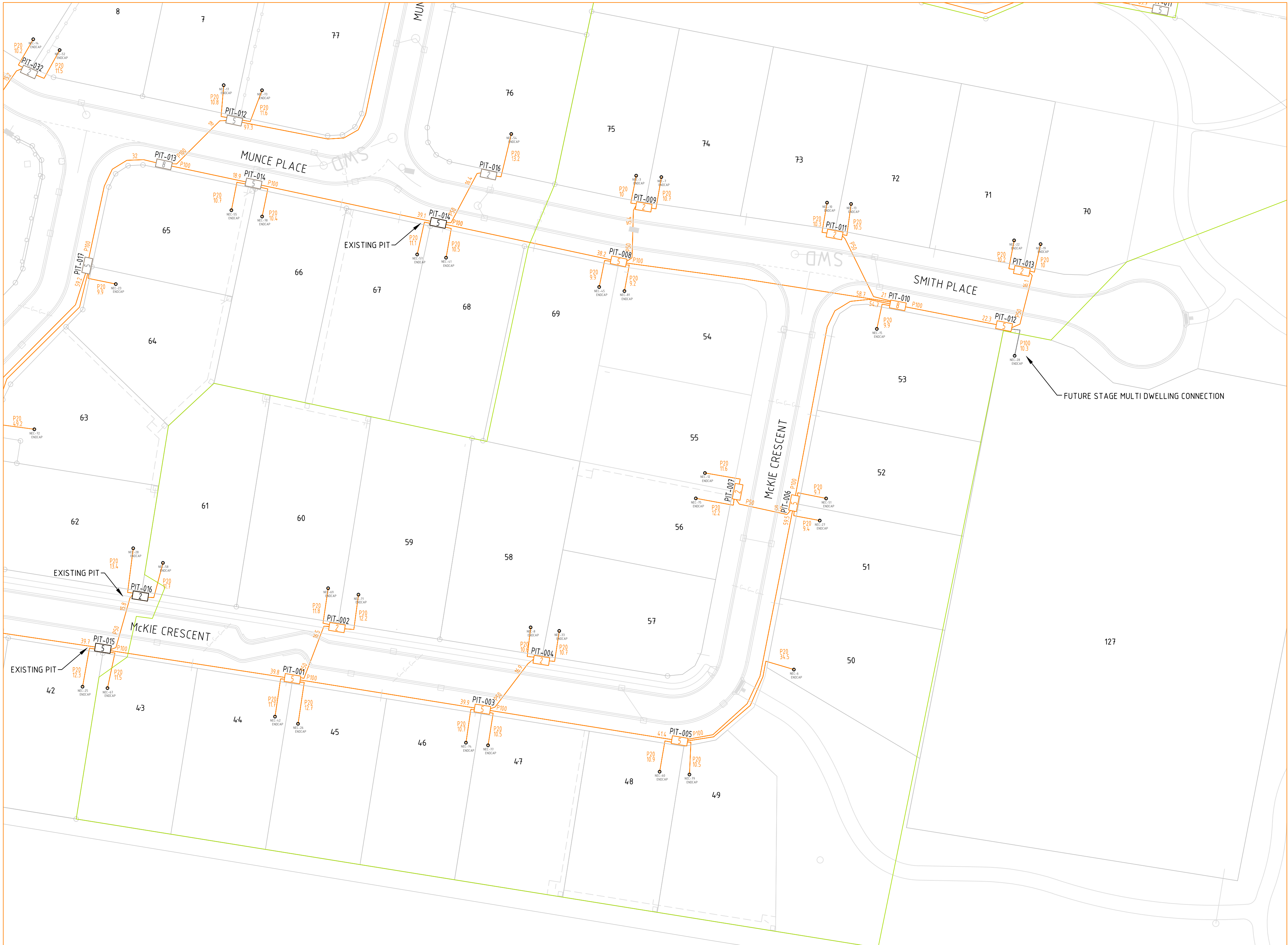
THIS DESIGN HAS BEEN PREPARED BY:
ELECTRO TECHNICAL CONSULTANTS PTY LTD
CONTACT: MAX GOSDEN
Proj. K3482-6

KEY PLAN

SHEET 2

DRAWING TITLE:
NBN PIT AND PIPE DESIGN
CANNON HILL - STAGE 3
CREEK ROAD
CANNON HILL

STATE: QLD REGION: FSA: FSAM: FDA: PROJECT No: AYCA-3LHDCF CADREF No: SCALE 1:500@A1 SHEET No. 1 OF 2 REV. C



ALL CONSTRUCTION TO BE INSTALLED IN SHARED TRENCH UNLESS OTHERWISE SHOWN

AS CONSTRUCTED

Development Information

Development Name: CANNON HILL
Developer Company: CV SERVICES
Development Address: CREEK ROAD CANNON HILL
Authorised Rep: MICHAEL HODGE
Phone: 0403 331 710
E-Mail: michael.hodge@cvservices.com.au
CRM ID: AYCA-3LHDCF
Stage Number: 3

BILL OF MATERIAL

NO OF LOTS: 26

| PITS | | DUCTS | | |
|---------------------------------|-----|-------|-----|-------|
| SIZE | QTY | SIZE | QTY | MTRS |
| 2 | 6 | P100 | 8 | 354.5 |
| 5 | 6 | P50 | 6 | 101.4 |
| 8 | 1 | P23 | 26 | 303.6 |
| 9 | 0 | | | |
| TOTAL NUMBER OF PITS: 13 | | | | |
| TOTAL NUMBER OF CONDUITS: 40 | | | | |
| TOTAL LENGTH OF CONDUITS: 759.5 | | | | |

****ATTENTION****
CONSTRUCTORS DO NOT change or alter job specifications unless first checking with designer.

| REV | DATE | DRAFTER | DESCRIPTION | APPROVED |
|-----|----------|-----------------|-------------------------|-------------|
| C | 04/04/17 | KELSEY WILLIAMS | AS CONSTRUCTED | KENT GOSDEN |
| B | 12/10/16 | KELSEY WILLIAMS | ISSUED FOR CONSTRUCTION | KENT GOSDEN |
| A | 16/08/16 | KELSEY WILLIAMS | INITIAL ISSUE | KENT GOSDEN |

NBNCO APPROVAL RECORD:

| | |
|-----------------------------|-------|
| SIGNATURE | DATE |
| <input type="checkbox"/> DD | _____ |
| <input type="checkbox"/> WD | _____ |
| <input type="checkbox"/> AB | _____ |

QUALITY RECORD :

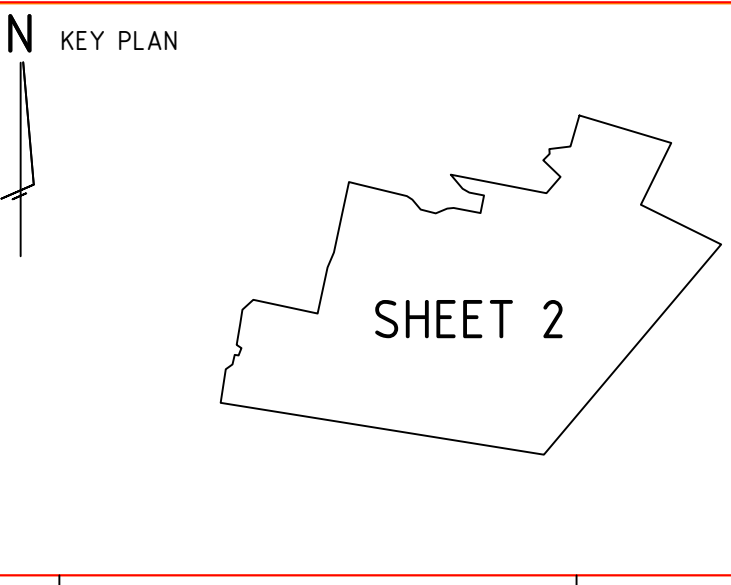
NBNCO DISCLAIMER

THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR THE USE OF NBNCO LIMITED (ABN 86 136 533 741) FOR USE IN MAINTAINING NBNCO FACILITIES. IT HAS NOT BEEN CREATED FOR ANY OTHER USE. IT SHOULD NOT BE SCALED TO LOCATE NBNCO ASSETS. NO WARRANTY IS GIVEN THAT THE INFORMATION IS ACCURATE OR COMPLETE.

NBNCo Limited

THIS DESIGN HAS BEEN PREPARED BY:

ELECTRO TECHNICAL CONSULTANTS PTY LTD
CONTACT: MAX GOSDEN
Proj. K3482-6



DRAWING TITLE:
NBN PIT AND PIPE DESIGN
CANNON HILL - STAGE 3
CREEK ROAD
CANNON HILL

STATE: QLD REGION: _____

FSA: _____ FSAM: _____ FDA: _____

PROJECT No: AYCA-3LHDCF

CADREF No: _____

SCALE: 1:500@A1 SHEET No: 2 OF 2 REV: C