

- 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)
- Penetration**

- 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 6** Distribution/Local Network Connection Pit (Dual Lid) (1360mmX555mmX650mm)
- PIT-ID 8** Distribution/Local Network Connection Pit (1360mmX555mmX860mm)
- PIT-ID 9** Fibre Distribution Hub (FDH) Pit (2000mmX555mmX900mm)
- NTD** Shared Trench
- NTD** nbn NTD
- OBBU** NBN Optional Battery Backup Unit
- PDH** nbn Premises Distribution Hub
- CTL** nbn Cable Transition Location
- FDT** nbn Fibre Distribution Terminal
- FIP** nbn NTD Fire Indicator Panel
- Riser** Riser
- LIFT** nbn NTD LIFT
- AP** Access Panel
- SEC** nbn NTD Security
- CET** nbn Communications Earth Terminal
- DES QTY** Example of descriptor box that will show the type of work and the quantity involved
- nbn manhole**
- Existing Telstra manhole**
- FAN AAAA** Fan Access Node site (FAN)
- 138A<sup>RX</sup><sub>CX</sub>** 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
- PCD** Premise Connection Device (PCD)
- POLE-ID** Pole (showing pole identity)
- 5** Existing Telstra Pit ( 2,3,4,5,6,7,8,9 ) Telstra exchange
- T** Example of Telstra Major Conduit Layout with Proposed duct marked to be used by NBN
- M < - >** NBN MARKER POST MARKER POST TO BE NUMBERED

### 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

### 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 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

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

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



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
B	31/07/20	C.RIGBY	FOR CONSTRUCTION	
A	09/07/20	C.RIGBY	DRAFT FOR REVIEW	

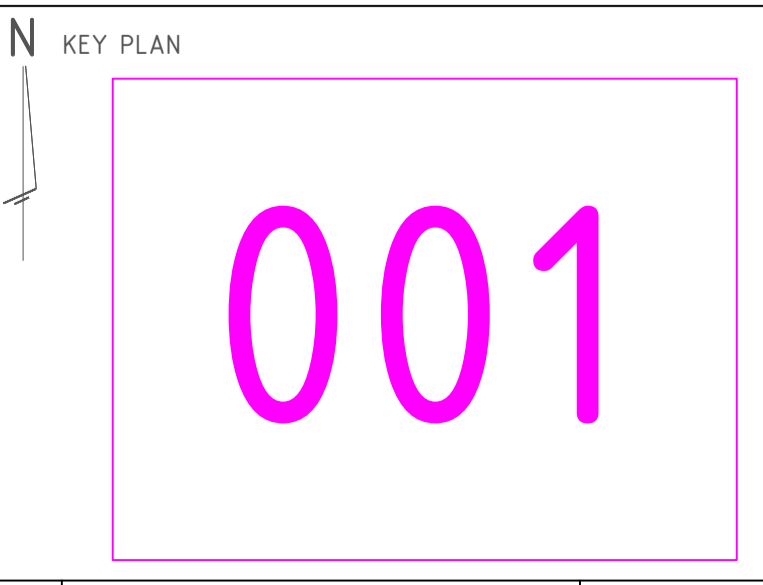
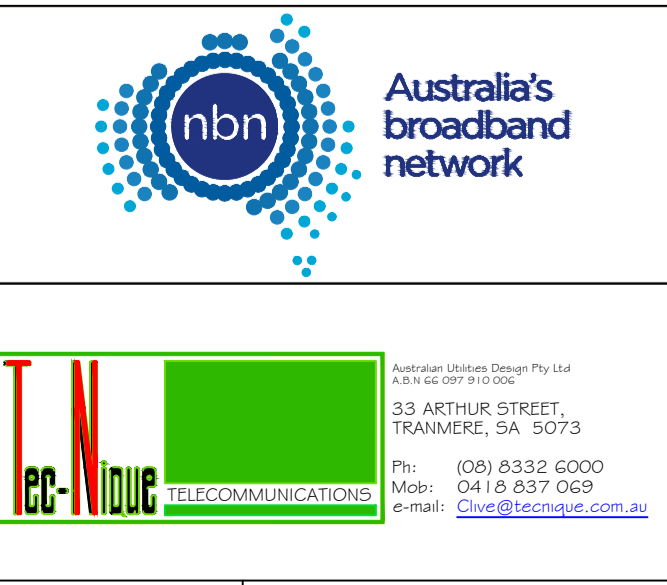
**STRICTLY CONFIDENTIAL**

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.



DRAWING TITLE:  
M000037742  
MIRAVALE - MUSICO  
STAGE 2  
PIT AND PIPE DESIGN

ENABLE#: 279174

STATE: SA	REGION:	
FSA:	SAM:	ADA:
PROJECT No: M000037742		
CADREF No: LF 2053		
SCALE N/A	SHEET No. LEGEND OF	REV. B

**\*\*ATTENTION CONSTRUCTORS\*\***  
Do not change or alter job specifications unless first checking with designer - ph: 0418 837 069

**FOR CONSTRUCTION**

**BILL OF MATERIAL**  
NO OF LOTS: 48

PITS		DUCTS	
SIZE	QTY	SIZE	QTY
2	6	P100	19
5	16	P50	10
6	2	P20	48
8	2		
9	0		

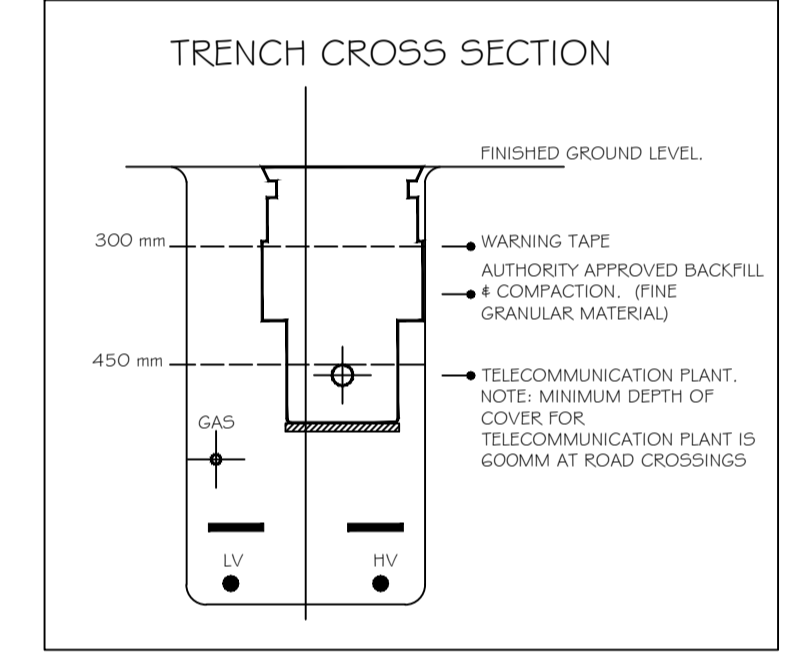
TOTAL NUMBER OF PITS: 26  
TOTAL NUMBER OF MANHOLES: 0  
TOTAL NUMBER OF CONDUITS: 77  
TOTAL LENGTH OF CONDUITS: 1391

- CONSTRUCTION NOTES:**
- ALL P20 LEAD-IN CONDUITS ARE SHOWN IN SCHEMATIC FORM.
  - THE MEASUREMENT SHOWN ON EACH CONDUIT REFERS TO THE LENGTH OF CONDUIT INSTALLED IN THE STREET COMMUNICATIONS TRENCH FROM THE CENTRE OF THE RELEVANT CONNECTING PIT, TO THE POINT WHERE EACH LEAD-IN CONDUIT TURNS TO ENTER EACH PROPERTY.
  - NEW P20 LEAD-INS TO EXTEND 1m INSIDE LOT BOUNDARY.
  - ALL P20 LEAD-INS TO CONTAIN DRAW WIRE FROM CONNECTING PIT AND TO BE CAPPED AT CUSTOMER END.
  - CONTRACTOR TO ENSURE PITS ARE OFFSET ON PROPERTY BOUNDARIES WHERE REQUIRED TO AVOID SITING PITS IN DRIVEWAYS.
  - ANY AMENDED PIT LOCATIONS AND LEAD-INS TO BE MARKED BY CONTRACTOR ON 'REDLINE' AS CONSTRUCTED DWGS.
  - 'REDLINE' DWGS TO BE RETURNED TO DESIGNER ON COMPLETION.

**SDU Development Information**

Development Name: MIRAVALE MUSICO  
Developer Company: LANCER COMMUNITIES  
Development Address: Heaslip Road, Angle Vale, SA  
Authorised Rep: Shaun Bowden  
Phone: 08-8132-1115  
E-Mail: sbowden@lancer.com.au  
nbn Reference Number: M000037742  
Stage Number: 2  
Design Revision: A

- STANDARD SEPARATIONS AND CONSTRUCTION NOTES:**
- PITS SHOULD BE INSTALLED AT LEAST 15.0M AWAY FROM EPR ZONES
  - PITS SHOULD BE INSTALLED 1000MM CLEAR FROM OTHER COMMS PITS
  - CONDUITS SHOULD BE INSTALLED 300MM CLEAR FROM TV CABLES
  - CONDUITS SHOULD BE INSTALLED 500MM CLEAR FROM GAS PIPES 110MM OR LESS
  - CONDUITS SHOULD BE INSTALLED 100MM CLEAR FROM ALL OTHER SERVICES
  - DEPTH OF COVER FOR COMMS CONDUITS:  
ROAD CROSSINGS - 600MM  
VERGE - 450MM  
SERVICE DROP CONDUIT - 300MM



**PIT DIMENSIONS TABLE - By Type & Size.**

PIT TYPE	Length	Width	Depth
P2 Pit	650mm	280mm	565mm
P5 Pit	700mm	450mm	650mm
P6 Pit	1360mm	555mm	650mm
P8 Pit	1360mm	555mm	860mm
P9 Pit	2040mm	550mm	900mm

DEVELOPMENT No. --- / D--- / --  
HUNDRED OF  
IN THE AREA OF  
TOWN OF  
MAP REF.  
GRID REF.

THIS ESTATE HAS BEEN DESIGNED FROM DEVELOPER SUPPLIED PLANS

DRAWING No. : -  
REV : -  
ISSUE DATE : -

**SCOPE OF WORKS:**  
DESIGN RETICULATION OF 48 LOT ESTATE WITH PIT & PIPE TO SUIT NBN GUIDELINES.

**NOTE 1:**  
PROJECT HAS BEEN DESIGNED TO NBNCo. GUIDELINES. ANY CONSTRUCTION CARRIED OUT BY DEVELOPERS/CONSTRUCTORS BASED ON THIS PLAN ARE TO BE CARRIED OUT AT OWN RISK. REFER TO NBNCo. WEB SITE FOR GUIDELINES FOR DEVELOPERS NBN-TE-STO-194.

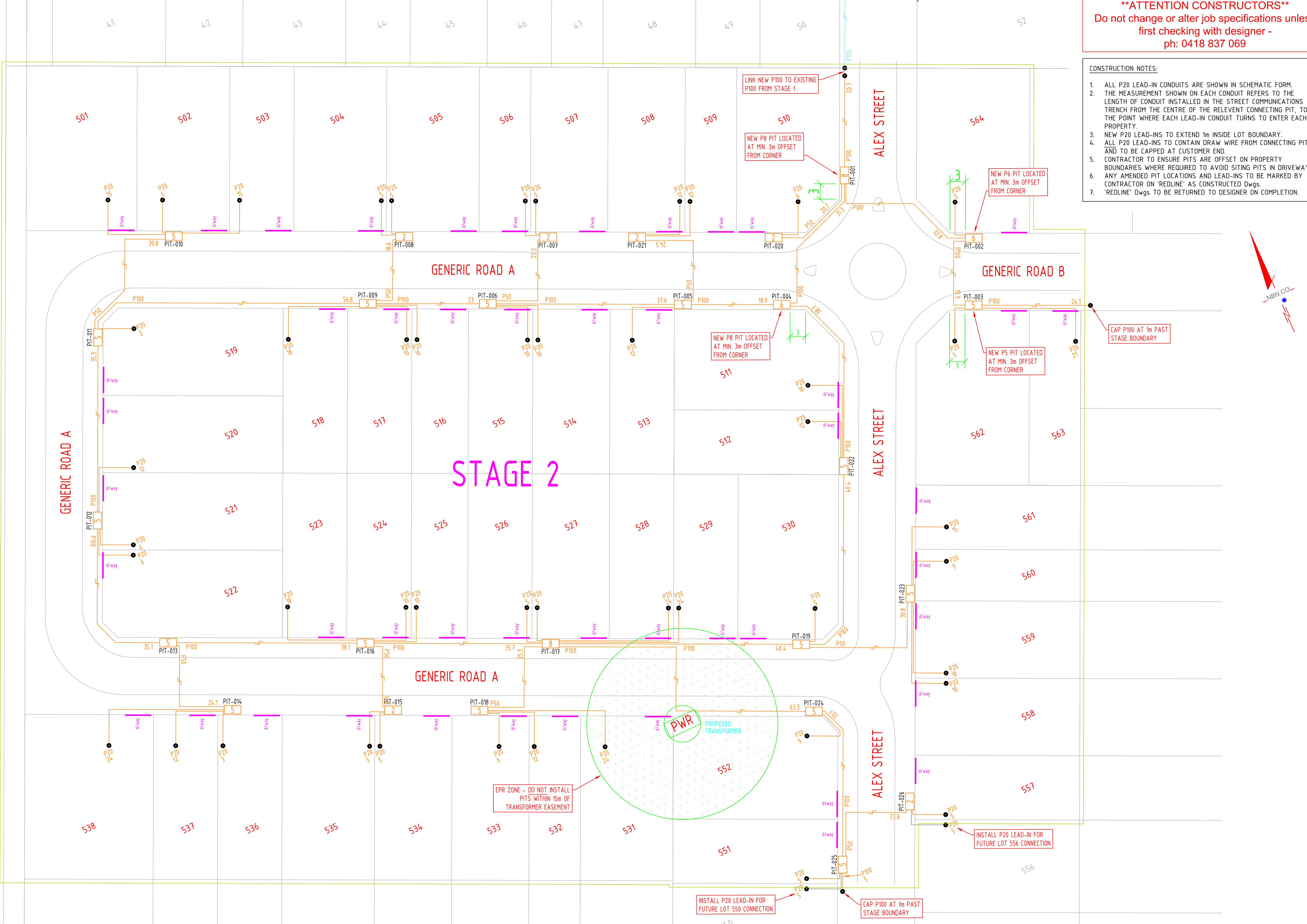
**NOTE 2:**  
ENSURE THAT THE INSTALLATION OF ALL P50 ROAD CROSSINGS ARE SET AS CLOSE TO 90 DEGREES AS POSSIBLE.

**NOTE 3:**  
NO CONDUIT INFRASTRUCTURE INCLUDED IN THIS DESIGN IS TO BE CONNECTED TO ANY EXISTING INFRASTRUCTURE THAT IS NOT OWNED BY THE DEVELOPER.

**NOTE 4:**  
ALL CONDUIT IS LOCAL UNLESS NOTED OTHERWISE.

**NOTE 5:**  
CONTRACTOR TO SEAL AND BURY 100mm CONDUIT AT END OF PROVIDED SHARED TRENCH TO NBNCo. GUIDELINES.

**NOTE 6:**  
REFER TO POWER/ELECTRICAL DESIGN FOR MINIMUM CLEARANCE DISTANCE REQUIRED BETWEEN ELECTRICAL PILLAR OR PIT AND TELECOMMUNICATIONS PIT.



**DIAL BEFORE YOU DIG**  
www.1100.com.au

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
B	31/07/20	C.RIGBY	FOR CONSTRUCTION	
A	09/07/20	C.RIGBY	DRAFT FOR REVIEW	

**STRICTLY CONFIDENTIAL**

NBNC APPROVAL RECORD:

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

QUALITY RECORD:

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

**nbn Australia's broadband network**

33 ARTHUR STREET, TRANMERE, SA 5073  
Ph: (08) 8332 6000  
Mob: 0418 837 069  
Email: [clued@nbn.com.au](mailto:clued@nbn.com.au)

**KEY PLAN**

001

DRAWING TITLE:  
M000037742  
MIRAVALE  
STAGE 2  
PIT AND PIPE DESIGN

ENABLE#: 279174

STATE: SA REGION:

PROJECT No: M000037742

CADREF No: LF 2053

SCALE N/A SHEET No. 002 OF 002 REV. B