

FOR CONSTRUCTION

ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER

CHANGES: YES/NO

CIVIL CONTRACTOR

NAME: _____

SIGNATURE: _____

DATE: _____

SAFETY FIRST
SAFETY STARTS WITH YOU

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. Contractor to obtain service information before commencing.

STANDARD DESIGN NOTES:

- THERE ARE A TOTAL OF 40 SINGLE RESIDENTIAL DWELLING LOTS.
- REFER TO SPA DRAWING 3661-E01 FOR COORDINATION WITH THE ELECTRICAL DESIGN.

LEGEND

PIT-ID 2	NBN Co PIT TYPE 2 PLASTIC PIT OR SIMILAR		ZERO LOT PROPERTY BOUNDARY
PIT-ID 5	NBN Co PIT TYPE 5 PLASTIC PIT OR SIMILAR		SHARED TRENCH
PIT-ID 6	NBN Co PIT TYPE 6 PLASTIC PIT OR SIMILAR		TRANSFORMER / KIOSK / PAD MOUNT SUB-STATION / POLE MOUNT TRANSFORMER
PIT-ID 8	NBN Co PIT TYPE 8 PLASTIC PIT OR SIMILAR		END CAP CONDUIT WITH STATION NO.
5	EXISTING TELSTRA PIT (2,3,4,5,6,7,8,9)		CAP SERVICE CONDUIT (P50/P20) P20=P23 mm NBNCo SERVICE CONDUIT
PIT-ID 8	EXISTING NBN Co PIT		LOCAL CONDUIT (P100/P50)
- -	EXISTING CONDUIT		NBNCo STAGE BOUNDARY

CONDUIT CONFIGURATION

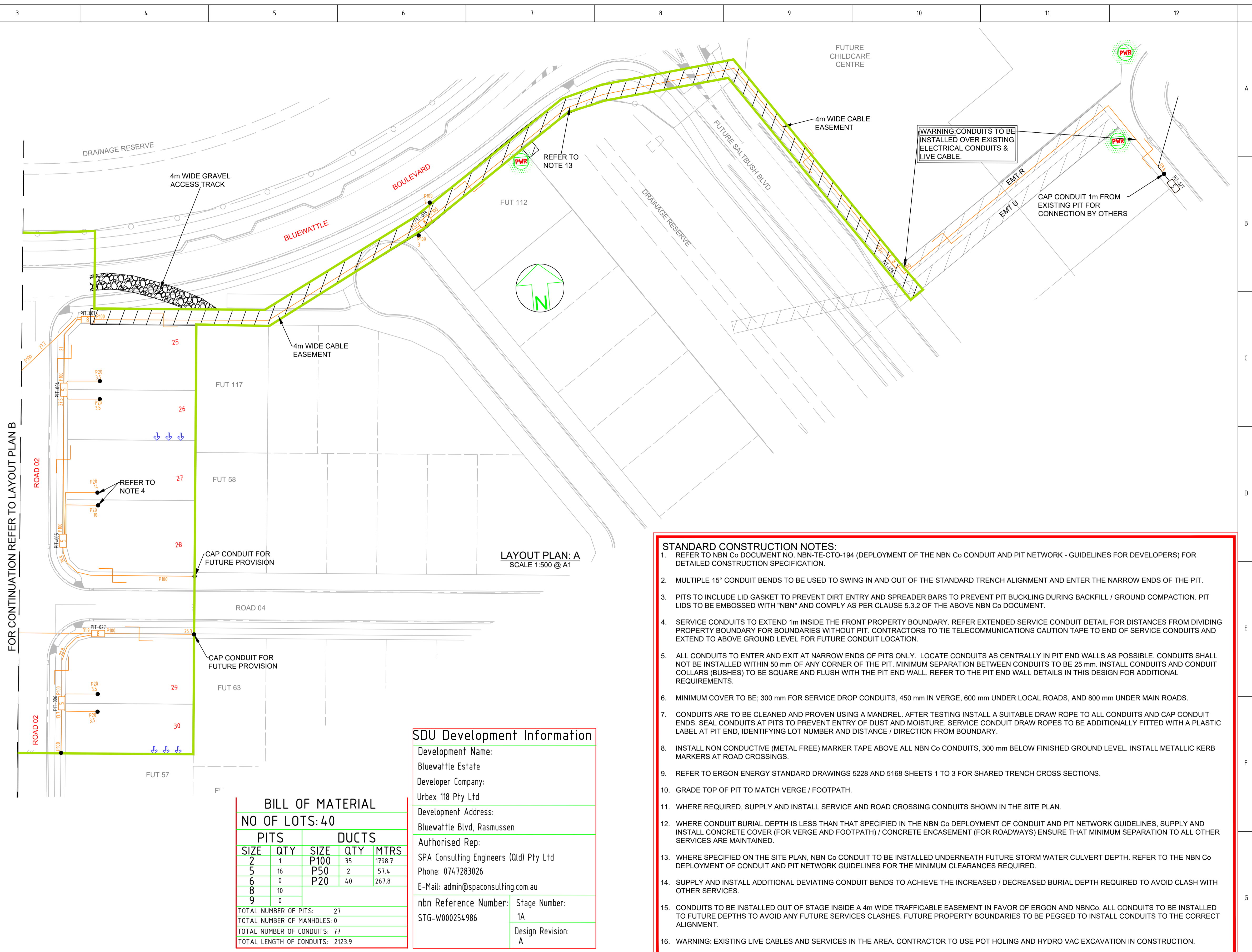
CONDUITS AND DUCTS ARE IN LAYER: <L480 NBN Support - Underground > AND TERMINOLOGY CATEGORISED INTO TWO GROUPS IN THE DRAWINGS AS PER BELOW:

- 1-DUCT USED WITH LOCAL NETWORK
- 2-CONDUIT USED WITH LEAD-IN DROPS

ATTRIBUTES ATTACHED TO CONDUITS ARE AS SHOWN



- NOTE:
- P100 HAS AN INTERNAL DIAMETER OF 104.9 mm AND A MINIMUM WALL THICKNESS OF 4.5 mm
 - P50 HAS AN INTERNAL DIAMETER OF 53 mm AND A MINIMUM WALL THICKNESS OF 3.1 mm
 - P20 HAS AN INTERNAL DIAMETER OF 23.3 mm AND A MINIMUM WALL THICKNESS OF 1.4 mm



STANDARD CONSTRUCTION NOTES:

- REFER TO NBN Co DOCUMENT NO. NBN-TE-CTO-194 (DEPLOYMENT OF THE NBN Co CONDUIT AND PIT NETWORK - GUIDELINES FOR DEVELOPERS) FOR DETAILED CONSTRUCTION SPECIFICATION.
- MULTIPLE 15° CONDUIT BENDS TO BE USED TO SWING IN AND OUT OF THE STANDARD TRENCH ALIGNMENT AND ENTER THE NARROW ENDS OF THE PIT.
- PITS TO INCLUDE LID GASKET TO PREVENT DIRT ENTRY AND SPREADER BARS TO PREVENT PIT BUCKLING DURING BACKFILL / GROUND COMPACTION. PIT LIDS TO BE EMBOSSED WITH "NBN" AND COMPLY AS PER CLAUSE 5.3.2 OF THE ABOVE NBN Co DOCUMENT.
- SERVICE CONDUITS TO EXTEND 1m INSIDE THE FRONT PROPERTY BOUNDARY. REFER EXTENDED SERVICE CONDUIT DETAIL FOR DISTANCES FROM DIVIDING PROPERTY BOUNDARY FOR BOUNDARIES WITHOUT PIT. CONTRACTORS TO TIE TELECOMMUNICATIONS CAUTION TAPE TO END OF SERVICE CONDUITS AND EXTEND TO ABOVE GROUND LEVEL FOR FUTURE CONDUIT LOCATION.
- ALL CONDUITS TO ENTER AND EXIT AT NARROW ENDS OF PITS ONLY. LOCATE CONDUITS AS CENTRALLY IN PIT END WALLS AS POSSIBLE. CONDUITS SHALL NOT BE INSTALLED WITHIN 50 mm OF ANY CORNER OF THE PIT. MINIMUM SEPARATION BETWEEN CONDUITS TO BE 25 mm. INSTALL CONDUITS AND CONDUIT COLLARS (BUSHES) TO BE SQUARE AND FLUSH WITH THE PIT END WALL. REFER TO THE PIT END WALL DETAILS IN THIS DESIGN FOR ADDITIONAL REQUIREMENTS.
- MINIMUM COVER TO BE: 300 mm FOR SERVICE DROP CONDUITS, 450 mm IN VERGE, 600 mm UNDER LOCAL ROADS, AND 800 mm UNDER MAIN ROADS.
- CONDUITS ARE TO BE CLEANED AND PROVEN USING A MANDREL. AFTER TESTING INSTALL A SUITABLE DRAW ROPE TO ALL CONDUITS AND CAP CONDUIT ENDS. SEAL CONDUITS AT PITS TO PREVENT ENTRY OF DUST AND MOISTURE. SERVICE CONDUIT DRAW ROPES TO BE ADDITIONALLY FITTED WITH A PLASTIC LABEL AT PIT END, IDENTIFYING LOT NUMBER AND DISTANCE / DIRECTION FROM BOUNDARY.
- INSTALL NON CONDUCTIVE (METAL FREE) MARKER TAPE ABOVE ALL NBN Co CONDUITS, 300 mm BELOW FINISHED GROUND LEVEL. INSTALL METALLIC KERB MARKERS AT ROAD CROSSINGS.
- REFER TO ERGON ENERGY STANDARD DRAWINGS 5228 AND 5168 SHEETS 1 TO 3 FOR SHARED TRENCH CROSS SECTIONS.
- GRADE TOP OF PIT TO MATCH VERGE / FOOTPATH.
- WHERE REQUIRED, SUPPLY AND INSTALL SERVICE AND ROAD CROSSING CONDUITS SHOWN IN THE SITE PLAN.
- WHERE CONDUIT BURIAL DEPTH IS LESS THAN THAT SPECIFIED IN THE NBN Co DEPLOYMENT OF CONDUIT AND PIT NETWORK GUIDELINES, SUPPLY AND INSTALL CONCRETE COVER (FOR VERGE AND FOOTPATH) / CONCRETE ENCASUREMENT (FOR ROADWAYS) ENSURE THAT MINIMUM SEPARATION TO ALL OTHER SERVICES ARE MAINTAINED.
- WHERE SPECIFIED ON THE SITE PLAN, NBN Co CONDUIT TO BE INSTALLED UNDERNEATH FUTURE STORM WATER CULVERT DEPTH. REFER TO THE NBN Co DEPLOYMENT OF CONDUIT AND PIT NETWORK GUIDELINES FOR THE MINIMUM CLEARANCES REQUIRED.
- SUPPLY AND INSTALL ADDITIONAL DEVIATING CONDUIT BENDS TO ACHIEVE THE INCREASED / DECREASED BURIAL DEPTH REQUIRED TO AVOID CLASH WITH OTHER SERVICES.
- CONDUITS TO BE INSTALLED OUT OF STAGE INSIDE A 4m WIDE TRAFFICABLE EASEMENT IN FAVOR OF ERGON AND NBNC. ALL CONDUITS TO BE INSTALLED TO FUTURE DEPTHS TO AVOID ANY FUTURE SERVICES CLASHES. FUTURE PROPERTY BOUNDARIES TO BE PEGGED TO INSTALL CONDUITS TO THE CORRECT ALIGNMENT.
- WARNING: EXISTING LIVE CABLES AND SERVICES IN THE AREA. CONTRACTOR TO USE POT HOLING AND HYDRO VAC EXCAVATION IN CONSTRUCTION.

SDU Development Information

Development Name:	Bluewattle Estate
Developer Company:	Urbex 118 Pty Ltd
Development Address:	Bluewattle Blvd, Rasmussen
Authorised Rep:	SPA Consulting Engineers (Qld) Pty Ltd
Phone:	074.7283026
E-Mail:	admin@spaconsulting.com.au
nbn Reference Number:	STG-W000254986
Stage Number:	1A
Design Revision:	A

BILL OF MATERIAL

NO OF LOTS: 40				
PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	1	P100	35	1798.7
5	16	P50	2	57.4
6	0	P20	40	267.8
8	10			
9	0			
TOTAL NUMBER OF PITS:		27		
TOTAL NUMBER OF MANHOLES:		0		
TOTAL NUMBER OF CONDUITS:		77		
TOTAL LENGTH OF CONDUITS:		2123.9		



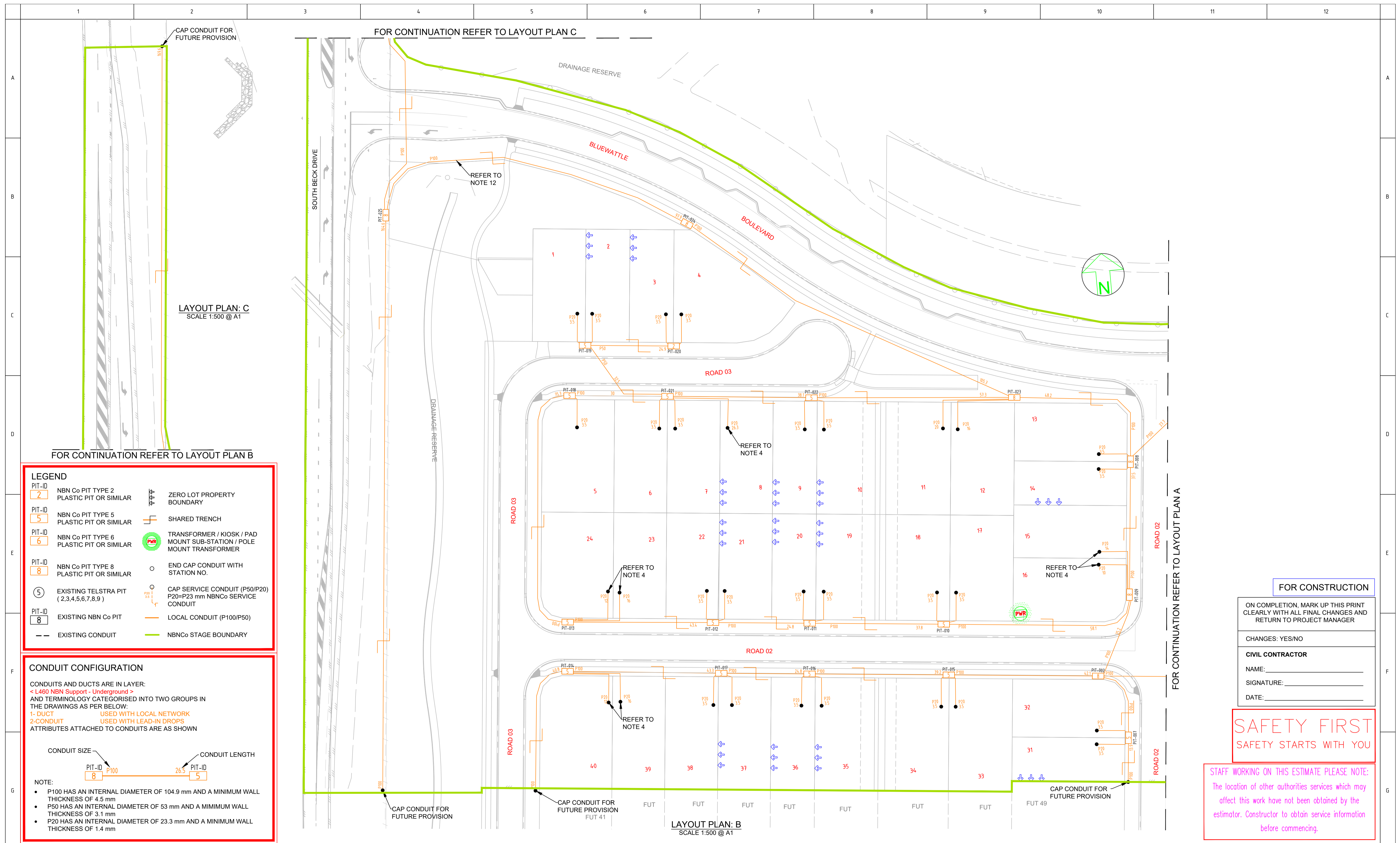
1	18/9/23	SW	FOR CONSTRUCTION	
1	26/7/23	SW	FOR APPROVAL	NBN
REV	DATE	DRAFTER	DESCRIPTION	APPROVED

STRICTLY CONFIDENTIAL

NBNC APPROVAL RECORD:	
<input type="checkbox"/> DD	SIGNATURE _____ DATE _____
<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.	

KEY PLAN

DRAWING TITLE: BLUEWATTLE PRECINCT 1- STAGE 1A NBNC PIT AND PIPE DESIGN LAYOUT PLAN A			
ENABLED:			
STATE:	QLD	REGION:	NQ
PSA:	SAM	ADA:	
PROJECT No:	STG-W000254986		
CADREF No:	3661-T01		
SCALE	SHEET No.	OF	REV.
AS SHOWN	1	3	A



LAYOUT PLAN: C
SCALE 1:500 @ A1

LAYOUT PLAN: B
SCALE 1:500 @ A1

LEGEND

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- -	EXISTING CONDUIT		NBNCo STAGE BOUNDARY

CONDUIT CONFIGURATION

CONDUITS AND DUCTS ARE IN LAYER:
<L480 NBN Support - Underground>
AND TERMINOLOGY CATEGORISED INTO TWO GROUPS IN
THE DRAWINGS AS PER BELOW:

1-DUCT USED WITH LOCAL NETWORK
2-CONDUIT USED WITH LEAD-IN DROPS

ATTRIBUTES ATTACHED TO CONDUITS ARE AS SHOWN

CONDUIT SIZE CONDUIT LENGTH

NOTE:

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FOR CONSTRUCTION

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CLEARLY WITH ALL FINAL CHANGES AND
RETURN TO PROJECT MANAGER

CHANGES: YES/NO

CIVIL CONTRACTOR

NAME: _____

SIGNATURE: _____

DATE: _____

SAFETY FIRST
SAFETY STARTS WITH YOU

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.



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
A	18/9/23	SW	FOR CONSTRUCTION	NBN
1	26/7/23	SW	FOR APPROVAL	NBN

STRICTLY CONFIDENTIAL

NBNCO APPROVAL RECORD:

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

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COMPLETE.

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broadband
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PO Box 864 North Cairns QLD 4870
Email Address: admin@spaconline.com.au
SPA Consulting Engineers Pty Ltd. ACN 110888888

KEY PLAN

DRAWING TITLE:
BLUEWATTLE PRECINCT 1- STAGE 1A
NBNCo PIT AND PIPE DESIGN
LAYOUT PLAN B

ENABLE#:

STATE: QLD REGION: NQ

FS#:

PROJECT No: STG-W000254986

CADREF No: 3661-T02

SCALE SHEET No. OF 3 REV. A