

- NOTES:
- INSTALL FDH PIT AS DIMENSIONED OUTSIDE OF NORMAL ELECTRICAL ALIGNMENT. CONDUITS DEVIATING TO FDH PIT TO BE 15°, 22.5°, 30°, 45° AND 90° BENDS WITH MINIMUM 800mm BEND RADIUS.
  - AT PLANNED FDH LOCATION INSTALL A CAPPED VERTICAL BEND FITTED ON THE FDH CONDUIT AT 1.0m ABOVE FINISHED GROUND LEVEL. INSTALL SAFETY NETTING WITH 3x CAPPED PICKETS AROUND THE FINISHED CONDUIT.

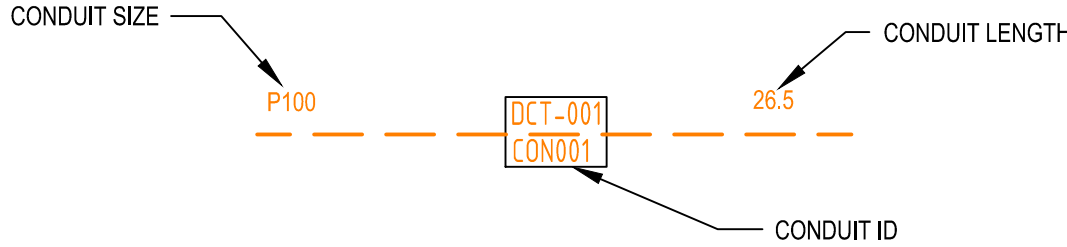
STAFF WORKING ON THIS ESTIMATE PLEASE NOTE:  
The location of other authorities services which may affect this work have not been obtained by the estimator. Constructor to obtain service information before commencing.

**SAFETY FIRST**  
SAFETY STARTS WITH YOU

DETAIL PLAN A : FDH LOCATION  
SCALE 1:25 @ A1

CONDUIT CONFIGURATION

CONDUITS AND DUCTS ARE IN LAYER:  
< L460 NBN Support - Underground >  
AND TERMINOLOGY CATEGORIZED 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 115 mm  
- P50 HAS AN INTERNAL DIAMETER OF 54.2 mm  
- P20 HAS AN INTERNAL DIAMETER OF 23.2 mm

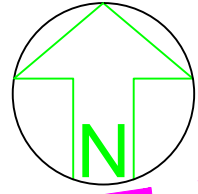
LEGEND

- |           |  |  |  |
|-----------|--|--|--|
|           | TRANSFORMER / KIOSK / PAD MOUNT SUB-STATION / POLE MOUNT TRANSFORMER |  | SHARED TRENCH  |
|           | FIBRE DISTRIBUTION HUB FDH CABINET                                   |  | ZERO LOT PROPERTY BOUNDARY                                     |
| PIT-ID 2  | ACO CABLEMATE TYPE 2 PLASTIC PIT OR SIMILAR                          |  | END CAP CONDUIT WITH STATION NO.                               |
| PIT-ID 5  | ACO CABLEMATE TYPE 5 PLASTIC PIT OR SIMILAR                          |  | CAP SERVICE CONDUIT (P50/P20) P20=P23 mm NBNCo SERVICE CONDUIT |
| PIT-ID 8  | ACO CABLEMATE TYPE 8 PLASTIC PIT OR SIMILAR                          |  | LOCAL CONDUIT (P100/P50)                                       |
| PIT-ID 9  | ACO CABLEMATE TYPE 9 PLASTIC PIT OR SIMILAR                          |  | EXISTING CONDUIT   |
| PIT-ID C8 | EXISTING NBNCo PIT   |  | NBNCo STAGE BOUNDARY   |
|           |  |  | NBNCo LNC BOUNDARY   |

NOTE:

- PITS TO BE LOCATED CLEAR OF THE PILLAR EXCLUSION ZONE.
- PITS TO INCLUDE LID GASKET.
- SERVICE CONDUITS TO EXTEND 1m INSIDE THE FRONT PROPERTY BOUNDARY.
- CONDUITS TO ENTER AND EXIT AT ENDS OF PITS ONLY. LOCATE CONDUITS AS CENTRALLY IN PIT END WALLS AS POSSIBLE. MINIMUM SEPARATION BETWEEN CONDUITS TO BE 25 mm. REFER TO THE PIT END WALL DETAILS 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 AND CAP CONDUIT ENDS. SEAL CONDUITS AT PITS TO PREVENT ENTRY OF DUST AND MOISTURE.
- INSTALL NON CONDUCTIVE (METAL FREE) MARKER TAPE ABOVE ALL NBNCo CONDUITS, 300 mm BELOW FINISHED GROUND LEVEL.
- REFER TO ERGON ENERGY STANDARD DRAWINGS 5228 AND 5168 SHEETS 1 TO 3 FOR SHARED TRENCH CROSS SECTIONS.
- REFER TO NBNCo CO GUIDE - INSTALLING PIT AND CONDUIT INFRASTRUCTURE - GUIDELINE FOR DEVELOPERS FOR DETAILED SPECIFICATION.
- GRADE TOP OF PIT TO MATCH VERGE / FOOTPATH.
- THERE ARE A TOTAL OF 31 RESIDENTIAL LOTS CONSISTING OF 29 SINGLE AND 2 POSSIBLE MULTI DWELLING LOTS (LOT 221 & 222).
- ALL OF THE STAGE IS TO BE FED FROM A NEW FDH TO BE INSTALLED ADJACENT TO LOT 202 IN THIS STAGE OF THE DEVELOPMENT.
- WHERE REQUIRED, SUPPLY AND INSTALL SERVICE AND ROAD CROSSING CONDUIT SHOWN IN THE PIT LAYOUTS.
- WHERE SPECIFIED ON THE SITE PLAN, NBNCo CONDUIT TO BE INSTALLED UNDERNEATH STORM WATER. REFER TO THE NBNCo 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.

CAP CONDUIT AND CONNECT TO EXISTING TELECOMMUNICATION NETWORK



LAYOUT PLAN  
SCALE 1:500 @ A1

AS CONSTRUCTED

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

E	07/11/12	SW	AS CONSTRUCTED	
D	23/08/12	SW	FOR CONSTRUCTION	
C	23/08/12	SW	FOR NBN RE-APPROVAL AS PER RE-DESIGN	
B	16/08/12	SW	REMOVED PIT 014 & ADDED P20 CONDUIT S FROM PIT 015 TO SERVICE LOTS 212,211 & 310.	
A	18/07/12	SW	FOR CONSTRUCTION	
3	30/05/12	SW	PIT 004 CHANGED TO C5. PITS 005,006 & 010CHANGED TO C8. P100 CONDUIT FROM PIT 004 TO STAGE BOUNDARYREMOVED. P100 CONDUIT FROM PIT 016 TO STAGE BOUNDARY	
			RE-ROUTE TO FOLLOW ERGON TRENCH.	
REV	DATE	DRAFTER	DESCRIPTION	APPROVED

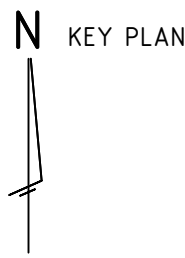
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SIGNATURE	DATE
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<input type="checkbox"/> WD	
<input type="checkbox"/> AB	

QUALITY RECORD :

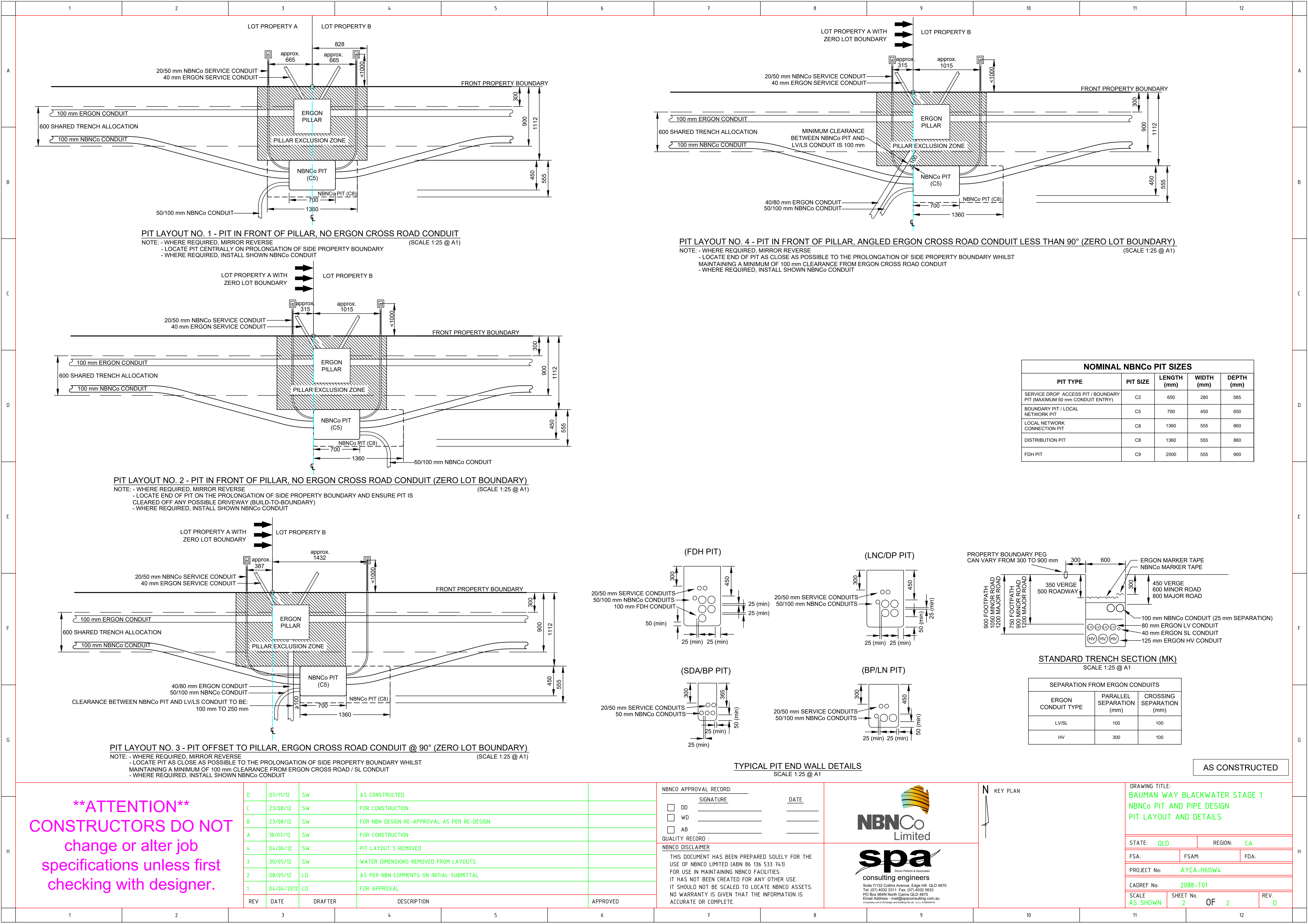
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DRAWING TITLE: BAUMAN WAY BLACKWATER STAGE 1 NBNCo PIT AND PIPE DESIGN SITE PLAN AND DETAIL PLAN A			
STATE: QLD		REGION: CA	
FSA:	FSAM:	FDA:	
PROJECT No: AYCA-H60W4			
CADREF No: 2088-T01			
SCALE AS SHOWN	SHEET No 1	OF 2	REV. E





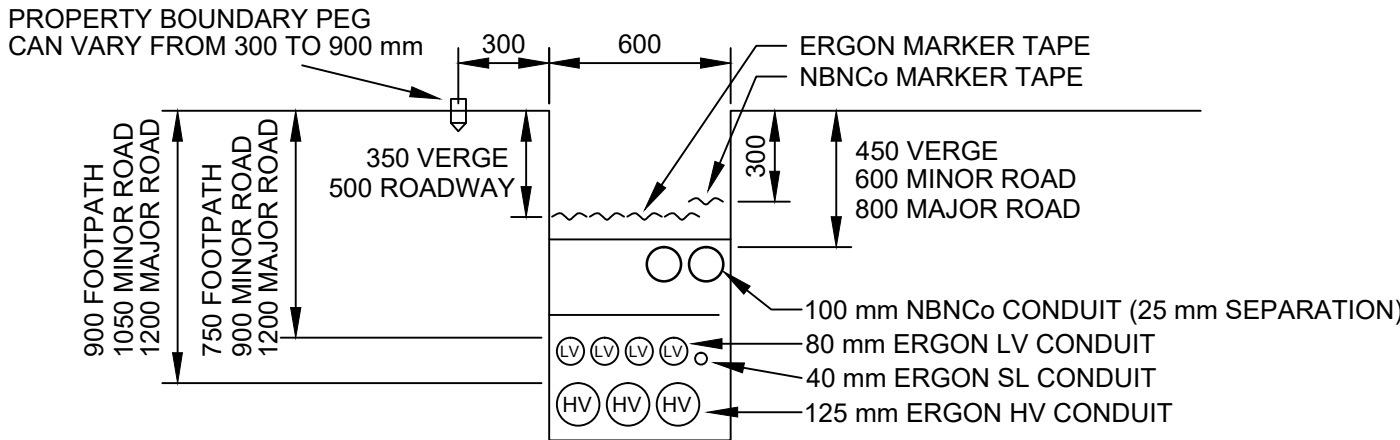
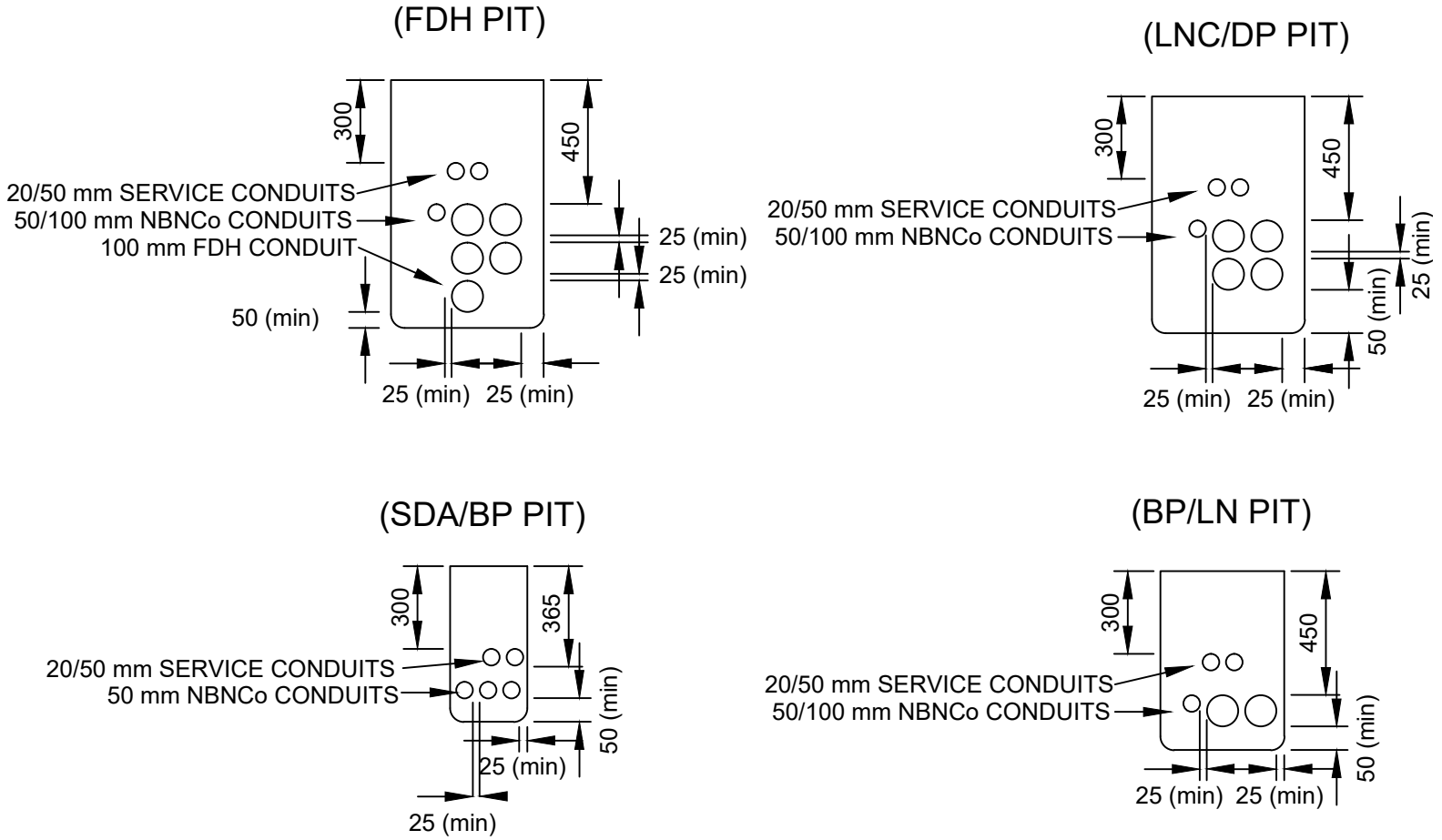
PIT LAYOUT NO. 1 - PIT IN FRONT OF PILLAR, NO ERGON CROSS ROAD CONDUIT  
NOTE: - WHERE REQUIRED, MIRROR REVERSE  
- LOCATE PIT CENTRALLY ON PROLONGATION OF SIDE PROPERTY BOUNDARY  
- WHERE REQUIRED, INSTALL SHOWN NBNC Co CONDUIT  
(SCALE 1:25 @ A1)

PIT LAYOUT NO. 4 - PIT IN FRONT OF PILLAR, ANGLED ERGON CROSS ROAD CONDUIT LESS THAN 90° (ZERO LOT BOUNDARY)  
NOTE: - WHERE REQUIRED, MIRROR REVERSE  
- LOCATE END OF PIT AS CLOSE AS POSSIBLE TO THE PROLONGATION OF SIDE PROPERTY BOUNDARY WHILST MAINTAINING A MINIMUM OF 100 mm CLEARANCE FROM ERGON CROSS ROAD CONDUIT  
- WHERE REQUIRED, INSTALL SHOWN NBNC Co CONDUIT  
(SCALE 1:25 @ A1)

PIT LAYOUT NO. 2 - PIT IN FRONT OF PILLAR, NO ERGON CROSS ROAD CONDUIT (ZERO LOT BOUNDARY)  
NOTE: - WHERE REQUIRED, MIRROR REVERSE  
- LOCATE END OF PIT ON THE PROLONGATION OF SIDE PROPERTY BOUNDARY AND ENSURE PIT IS CLEARED OFF ANY POSSIBLE DRIVEWAY (BUILT-TO-BOUNDARY)  
- WHERE REQUIRED, INSTALL SHOWN NBNC Co CONDUIT  
(SCALE 1:25 @ A1)

PIT LAYOUT NO. 3 - PIT OFFSET TO PILLAR, ERGON CROSS ROAD CONDUIT @ 90° (ZERO LOT BOUNDARY)  
NOTE: - WHERE REQUIRED, MIRROR REVERSE  
- LOCATE PIT AS CLOSE AS POSSIBLE TO THE PROLONGATION OF SIDE PROPERTY BOUNDARY WHILST MAINTAINING A MINIMUM OF 100 mm CLEARANCE FROM ERGON CROSS ROAD / SL CONDUIT  
- WHERE REQUIRED, INSTALL SHOWN NBNC Co CONDUIT  
(SCALE 1:25 @ A1)

NOMINAL NBNC Co PIT SIZES				
PIT TYPE	PIT SIZE	LENGTH (mm)	WIDTH (mm)	DEPTH (mm)
SERVICE DROP / ACCESS PIT / BOUNDARY PIT (MAXIMUM 50 mm CONDUIT ENTRY)	C2	650	280	565
BOUNDARY PIT / LOCAL NETWORK PIT	C5	700	450	650
LOCAL NETWORK CONNECTION PIT	C8	1360	555	860
DISTRIBUTION PIT	C8	1360	555	860
FDH PIT	C9	2000	555	900



SEPARATION FROM ERGON CONDUITS		
ERGON CONDUIT TYPE	PARALLEL SEPARATION (mm)	CROSSING SEPARATION (mm)
LV/SL	100	100
HV	300	100

TYPICAL PIT END WALL DETAILS  
SCALE 1:25 @ A1

AS CONSTRUCTED

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

D	07/11/12	SW	AS CONSTRUCTED
C	23/08/12	SW	FOR CONSTRUCTION
B	23/08/12	SW	FOR NBN DESIGN RE-APPROVAL AS PER RE-DESIGN.
A	18/07/12	SW	FOR CONSTRUCTION
4	04/06/12	SW	PIT LAYOUT 5 REMOVED
3	30/05/12	SW	WATER DIMENSIONS REMOVED FROM LAYOUTS.
2	08/05/12	LD	AS PER NBN COMMENTS ON INITIAL SUBMITTAL
1	04/04/2012	LD	FOR APPROVAL
REV	DATE	DRAFTER	DESCRIPTION

NBNC Co APPROVAL RECORD:

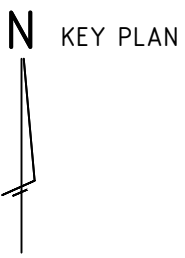
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<input type="checkbox"/> WD	
<input type="checkbox"/> AB	

QUALITY RECORD :

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**NBNC Co** Limited  
**spa** consulting engineers  
Suite 7/132 Collins Avenue, Edge Hill, QLD 4870  
Tel: (07) 4032 3311 Fax: (07) 4032 5633  
PO Box 464N North Cairns QLD 4870  
Email Address: [mail@spaconsltd.com.au](mailto:mail@spaconsltd.com.au)  
A business unit of JIS Design and Drafting Pty Ltd. A.C.N. 112844416



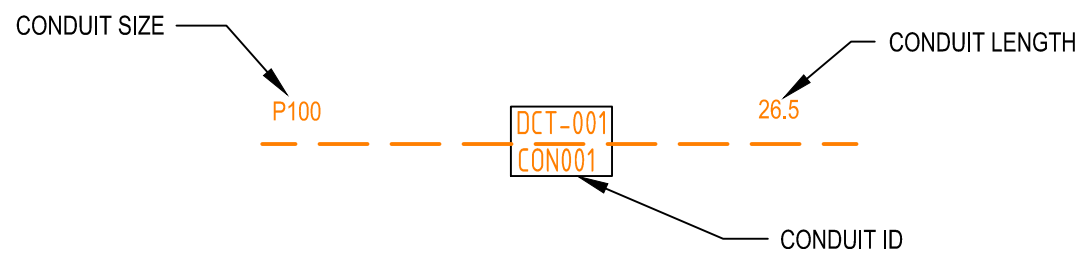
DRAWING TITLE:  
**BAUMAN WAY BLACKWATER STAGE 1**  
**NBNC Co PIT AND PIPE DESIGN**  
**PIT LAYOUT AND DETAILS**

STATE: <b>QLD</b>	REGION: <b>CA</b>	
FSA:	FSAM:	FDA:
PROJECT No:	<b>AYCA-H60W4</b>	
CADREF No:	<b>2088-T01</b>	
SCALE <b>AS SHOWN</b>	SHEET No. <b>2</b> OF <b>2</b>	REV. <b>D</b>



## CONDUIT CONFIGURATION

CONDUITS AND DUCTS ARE IN LAYER:  
< L460 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



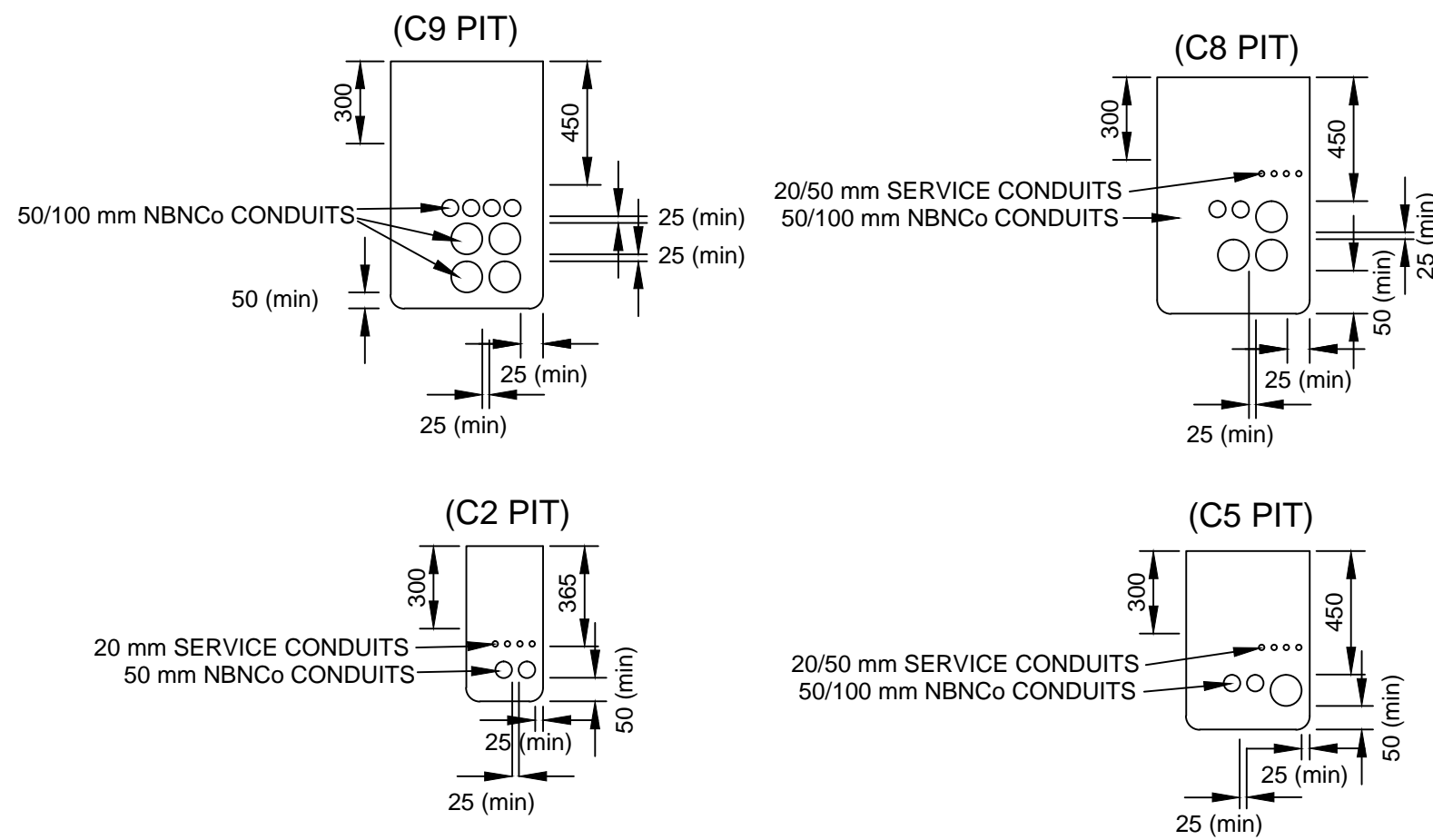
NOTE:  
- P100 HAS AN INTERNAL DIAMETER OF 115 mm  
- P50 HAS AN INTERNAL DIAMETER OF 64.2 mm  
- P20 HAS AN INTERNAL DIAMETER OF 23.2 mm

## LEGEND

	TRANSFORMER / KIOSK / PAD MOUNT SUB-STATION / POLE MOUNT TRANSFORMER		SHARED TRENCH
	FIBRE DISTRIBUTION HUB FDH CABINET		ZERO LOT PROPERTY BOUNDARY
PIT-ID 2	ACO CABLEMATE TYPE 2 PLASTIC PIT OR SIMILAR		END CAP CONDUIT WITH STATION NO.
PIT-ID 5	ACO CABLEMATE TYPE 5 PLASTIC PIT OR SIMILAR		CAP SERVICE CONDUIT (P50/P20) P20=P23 mm NBNC Co SERVICE CONDUIT
PIT-ID 8	ACO CABLEMATE TYPE 8 PLASTIC PIT OR SIMILAR		LOCAL CONDUIT (P100/P50)
PIT-ID 9	ACO CABLEMATE TYPE 9 PLASTIC PIT OR SIMILAR		EXISTING CONDUIT
PIT-ID C8	EXISTING NBNC Co PIT		NBNC Co STAGE BOUNDARY
			NBNC Co LNC BOUNDARY

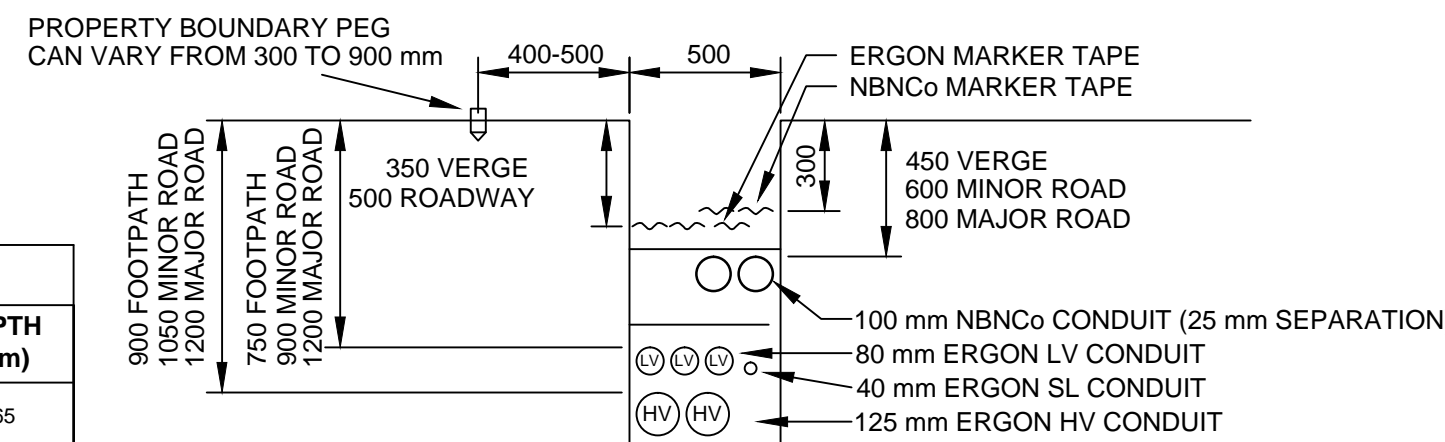
## NOTE:

- PITS TO BE LOCATED CLEAR OF THE PILLAR EXCLUSION ZONE.
- PITS TO INCLUDE LID GASKET.
- SERVICE CONDUITS TO EXTEND 1m INSIDE THE FRONT PROPERTY BOUNDARY.
- CONDUITS TO ENTER AND EXIT AT ENDS OF PITS ONLY. LOCATE CONDUITS AS CENTRALLY IN PIT END WALLS AS POSSIBLE. MINIMUM SEPARATION BETWEEN CONDUITS TO BE 25 mm. REFER TO THE PIT END WALL DETAILS 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 AND CAP CONDUIT ENDS. SEAL CONDUITS AT PITS TO PREVENT ENTRY OF DUST AND MOISTURE.
- INSTALL NON CONDUCTIVE (METAL FREE) MARKER TAPE ABOVE ALL NBNC Co CONDUITS, 300 mm BELOW FINISHED GROUND LEVEL.
- REFER TO ERGON ENERGY STANDARD DRAWINGS 5228 AND 5168 SHEETS 1 TO 3 FOR SHARED TRENCH CROSS SECTIONS.
- REFER TO NBNC Co DOCUMENT NO. NBN-TE-CTO-194 (DEPLOYMENT OF THE NBN Co CONDUIT AND PIT NETWORK - GUIDELINES FOR DEVELOPERS) FOR DETAILED SPECIFICATION.
- GRADE TOP OF PIT TO MATCH VERGE / FOOTPATH.
- THERE IS A POSSIBLE TOTAL OF 41 RESIDENTIAL DWELLINGS OVER 17 LOTS, MADE UP OF 13 SINGLE LOTS AND 4 SUPER LOTS WITH POSSIBLY 7 DWELLINGS EACH.
- ALL OF THE STAGE IS TO BE FED FROM EXISTING FDH INSTALLED IN STAGE 1. REFER TO NBNC Co PROJECT NO: AYCA-H60W4 FOR DETAILS.
- WHERE REQUIRED, SUPPLY AND INSTALL SERVICE AND ROAD CROSSING CONDUIT SHOWN IN THE PIT LAYOUTS.
- WHERE CONDUIT BURIAL DEPTH IS LESS THAN THAT SPECIFIED IN THE NBNC Co DEPLOYMENT OF CONDUIT AND PIT NETWORK GUIDELINES, SUPPLY AND INSTALL CONCRETE COVER (FOR VERGE AND FOOTPATH) / CONCRETE ENCASMENT (FOR ROADWAYS) ENSURE THAT MINIMUM SEPARATION TO ALL OTHER SERVICES ARE MAINTAINED.
- WHERE SPECIFIED ON THE SITE PLAN, NBNC Co CONDUIT TO BE INSTALLED UNDERNEATH STORM WATER. REFER TO THE NBNC 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.



TYPICAL PIT END WALL DETAILS  
SCALE 1:25 @ A1

NOMINAL NBNC Co PIT SIZES				
PIT TYPE	PIT SIZE	LENGTH (mm)	WIDTH (mm)	DEPTH (mm)
SERVICE DROP / ACCESS PIT / BOUNDARY PIT (MAXIMUM 50 mm CONDUIT ENTRY)	C2	650	280	565
BOUNDARY PIT / LOCAL NETWORK PIT	C5	700	450	650
LOCAL NETWORK CONNECTION PIT	C8	1360	555	860
DISTRIBUTION PIT	C8	1360	555	860
FDH PIT	C9	2000	555	900



STANDARD TRENCH SECTION (CA)  
SCALE 1:25 @ A1

SEPARATION FROM ERGON CONDUITS		
ERGON CONDUIT TYPE	PARALLEL SEPARATION (mm)	CROSSING SEPARATION (mm)
LV/SL	100	100
HV	300	100

AS CONSTRUCTED

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**change or alter job**  
**specifications unless first**  
**checking with designer.**

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
E	12/03/13	AD	AS CONSTRUCTED	
D	4/09/12	SW	FOR CONSTRUCTION	
C	3/09/12	SW	FOR NBN RE-APPROVAL AS PER UPDATE WITH AMALGAMATION OF LOTS.	
B	23/08/12	SW	FOR NBN RE-APPROVAL AS PER RE-DESIGN	
A	25/07/12	RB	ISSUED FOR CONSTRUCTION	
2	18/07/12	RB	AMENDED AS PER NBN Co COMMENTS	
1	04/07/12	RB	FOR APPROVAL	

### NBNC APPROVAL RECORD:

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

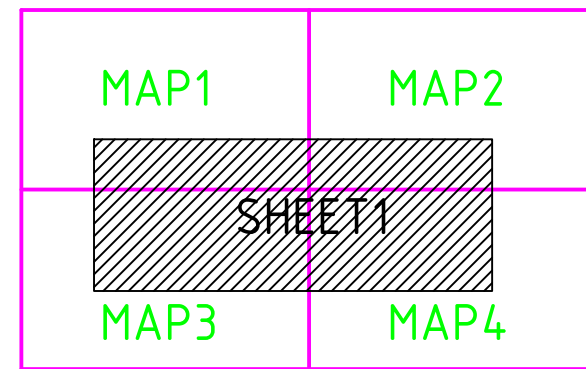
### QUALITY RECORD:

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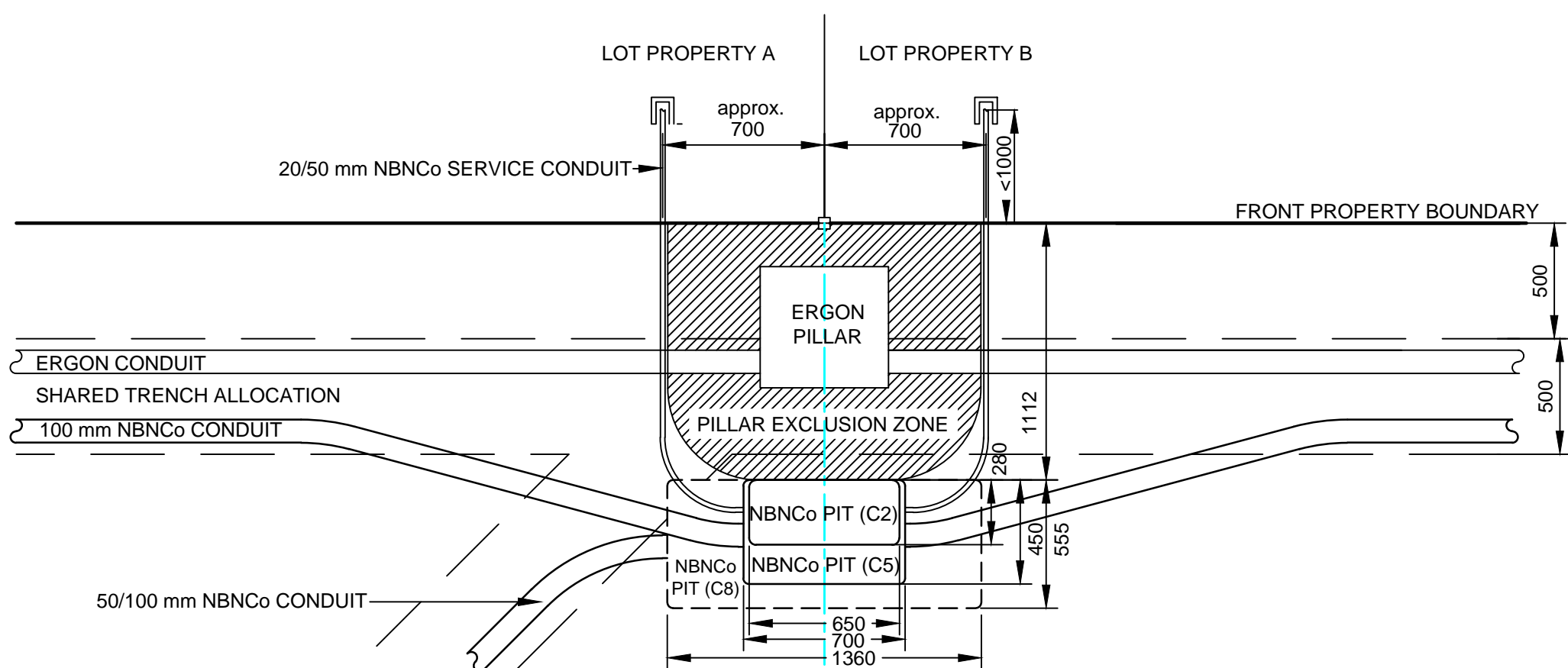
### KEY PLAN



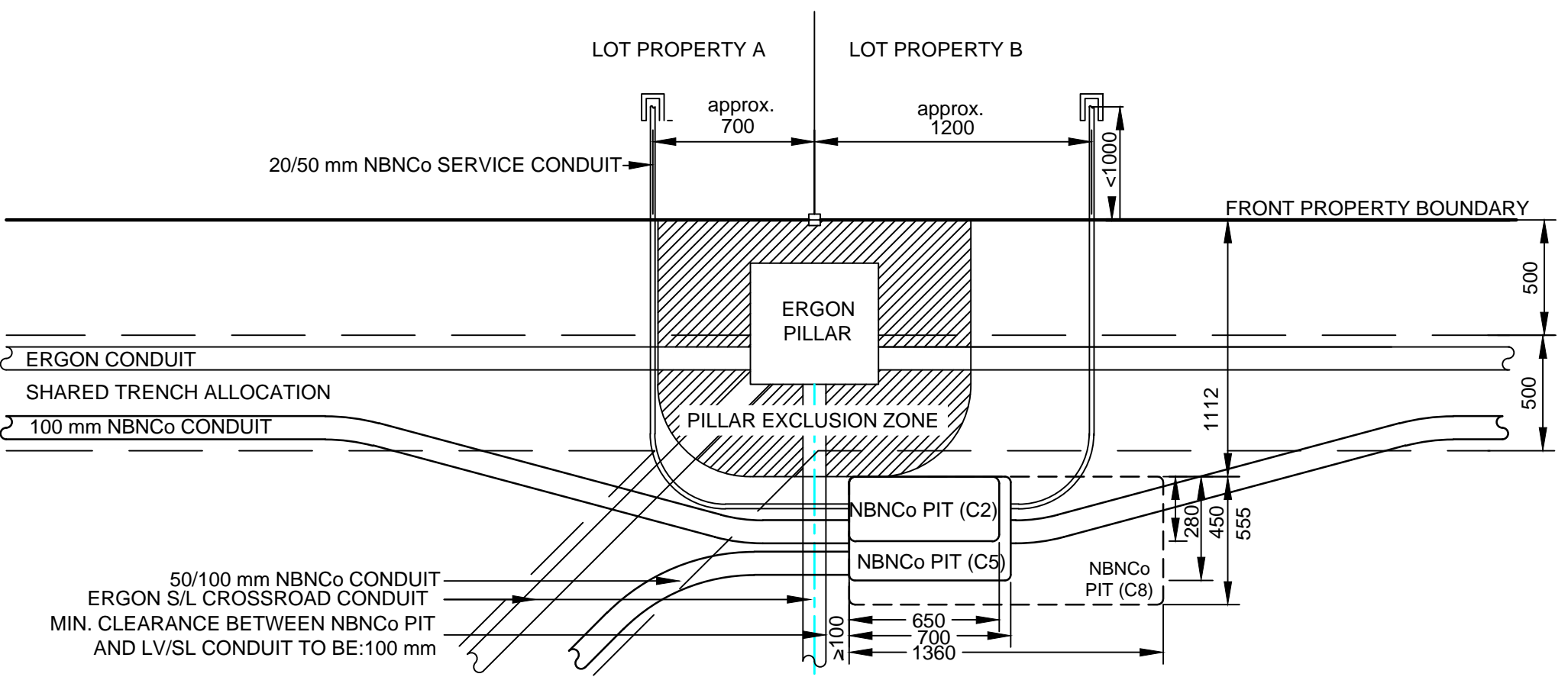
DRAWING TITLE:  
**BAUMAN WAY BLACKWATER STAGE 3 & 4**  
**NBN Co PIT AND PIPE DESIGN**  
**SITE PLAN AND DETAILS**

STATE: QLD	REGION: CA
FSM: FSAM:	FDA:
PROJECT No: AYCA-H60YF	
CADREF No: 2089-T01	
SCALE AS SHOWN	SHEET No. 1 OF 2
REV. E	

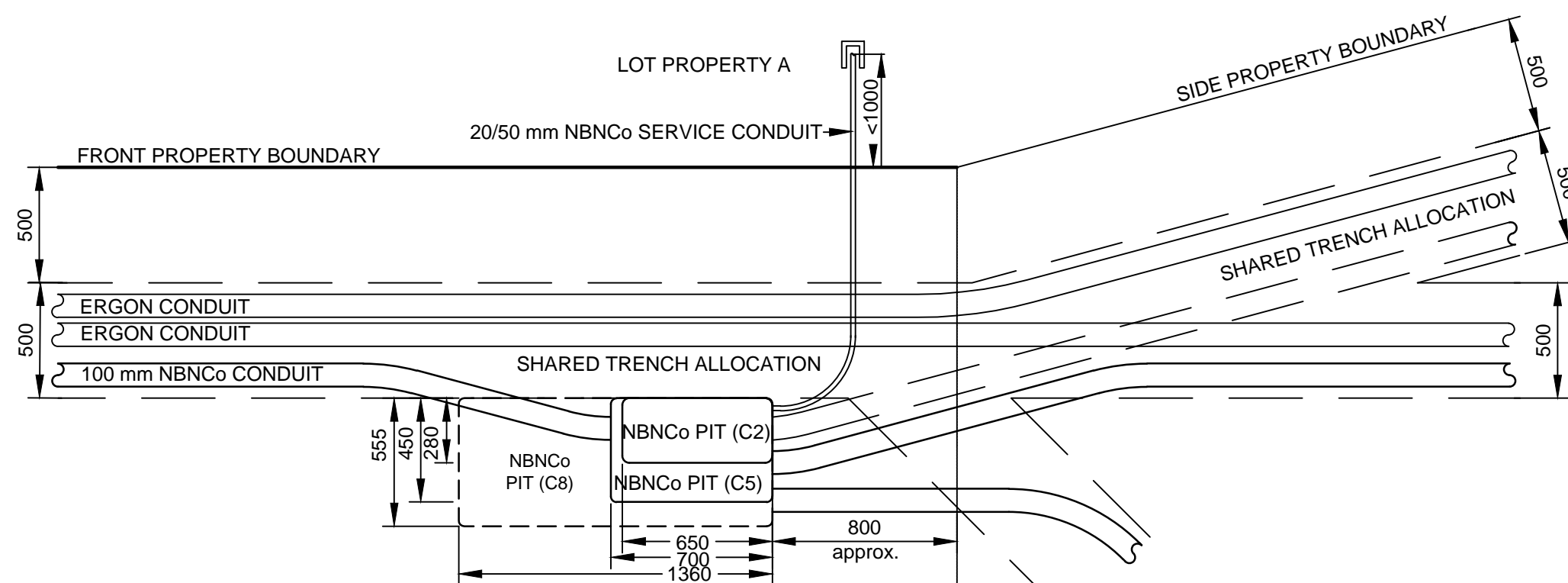




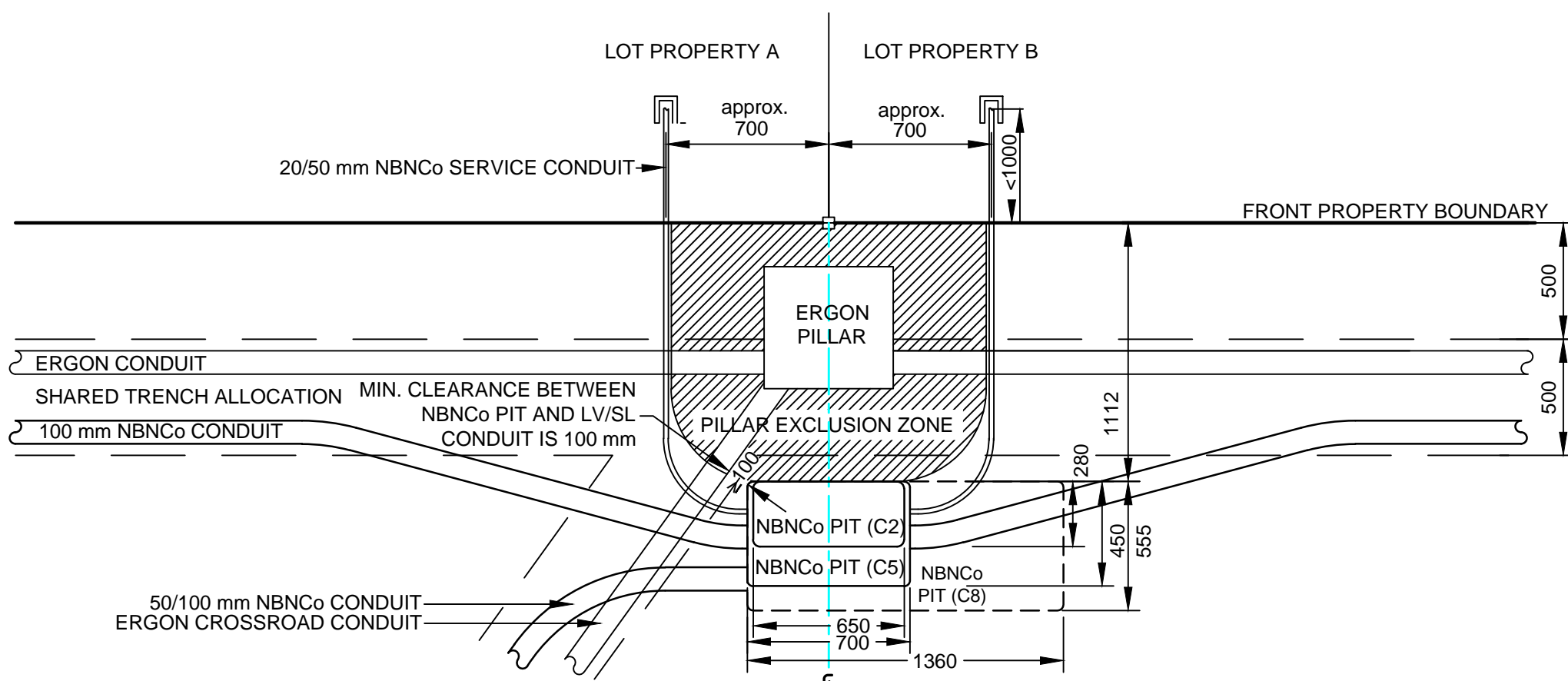
**PIT LAYOUT NO. 2 - PIT IN FRONT OF PILLAR, NO ERGON CROSS ROAD CONDUIT**  
NOTE: - WHERE REQUIRED, MIRROR REVERSE  
- ENSURE PIT TO BE CLEAR OF THE PILLAR EXCLUSION ZONE  
- LOCATE PIT CENTRALLY ON PROLONGATION OF SIDE PROPERTY BOUNDARY  
- WHERE REQUIRED, INSTALL SHOWN NBNCo CONDUIT  
(SCALE 1:25 @ A1)



**PIT LAYOUT NO. 4 - PIT OFFSET TO PILLAR WITH ERGON ANGLED AND A 90° CROSS ROAD CONDUIT**  
NOTE: - WHERE REQUIRED, MIRROR REVERSE  
- ENSURE PIT TO BE CLEAR OF THE PILLAR EXCLUSION ZONE  
- LOCATE PIT AS CLOSE AS POSSIBLE TO THE PROLONGATION OF SIDE PROPERTY BOUNDARY WHILST MAINTAINING A MINIMUM OF 100 mm CLEARANCE FROM ERGON CONDUIT  
- WHERE REQUIRED, INSTALL SHOWN NBNCo CONDUIT  
(SCALE 1:25 @ A1)



**PIT LAYOUT NO. 6 - PIT ON TRUNCATION WITH ANGLED SIDE PROPERTY BOUNDARY**  
NOTE: - WHERE REQUIRED, MIRROR REVERSE  
- LOCATE END OF PIT AS CLOSE AS POSSIBLE TO THE PROLONGATION OF THE PROPERTY TRUNCATION WHILST TAKING IN CONSIDERATION THE SIZE AND RADIUS OF BENDS TO BE USED  
- WHERE REQUIRED, INSTALL SHOWN NBNCo CONDUIT  
(SCALE 1:25 @ A1)



**PIT LAYOUT NO. 5 - PIT OFFSET TO PILLAR, ANGLED ERGON CROSS ROAD CONDUIT LESS THAN 90°**  
NOTE: - WHERE REQUIRED, MIRROR REVERSE  
- ENSURE PIT TO BE CLEAR OF THE PILLAR EXCLUSION ZONE  
- LOCATE CENTER OF PIT AS CLOSE AS POSSIBLE TO THE PROLONGATION OF SIDE PROPERTY BOUNDARY WHILST MAINTAINING A MINIMUM OF 100 mm CLEARANCE FROM ERGON CROSS ROAD CONDUIT  
- WHERE REQUIRED, INSTALL SHOWN NBNCo CONDUIT  
(SCALE 1:25 @ A1)

AS CONSTRUCTED

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**change or alter job**  
**specifications unless first**  
**checking with designer.**

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
D	12/03/13	AD	AS CONSTRUCTED	
C	3/09/12	SW	FOR NBN RE-APPROVAL AS PER UPDATE WITH AMALGAMATION OF LOTS.	
B	23/08/12	SW	REMOVED PIT LAYOUT 9SP. FOR NBN RE-APPROVAL AS PER RE-DESIGN.	
A	25/07/12	RB	ISSUED FOR CONSTRUCTION	
1	04/07/12	RB	FOR APPROVAL	

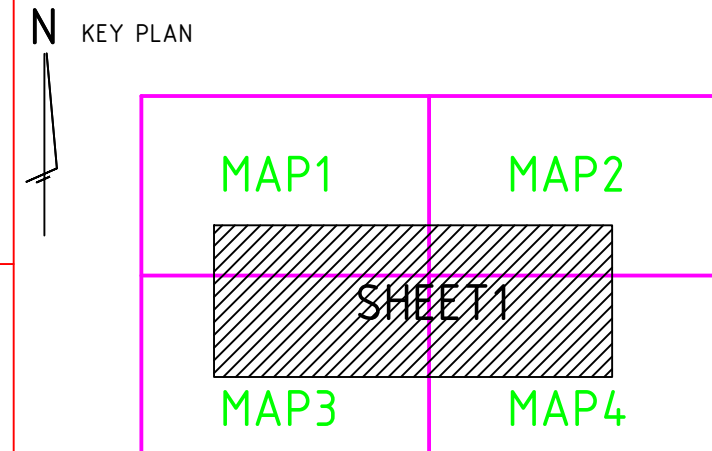
NBNCo APPROVAL RECORD:

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

QUALITY RECORD :

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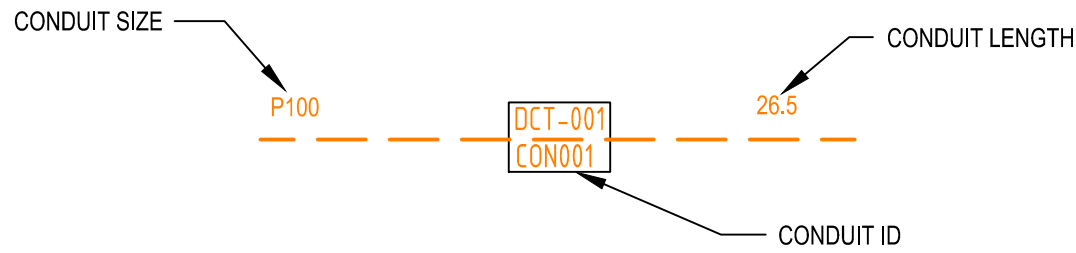
DRAWING TITLE:  
**BAUMAN WAY BLACKWATER STAGE 3 & 4**  
**NBN Co PIT AND PIPE DESIGN**  
**PIT LAYOUT DETAILS**

STATE: QLD	REGION: CA	
FSA:	FSAM:	FDA:
PROJECT No: AYCA-H60YF		
CADREF No: 2089-T01		
SCALE AS SHOWN	SHEET No. 2 OF 2	REV. D



## CONDUIT CONFIGURATION

CONDUITS AND DUCTS ARE IN LAYER:  
< L460 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 115 mm  
- P50 HAS AN INTERNAL DIAMETER OF 54.2 mm  
- P20 HAS AN INTERNAL DIAMETER OF 23.2 mm

## LEGEND

	TRANSFORMER / KIOSK / PAD MOUNT SUB-STATION / POLE MOUNT TRANSFORMER		SHARED TRENCH
	FIBRE DISTRIBUTION HUB FDH CABINET		ZERO LOT PROPERTY BOUNDARY
PIT-ID 2	ACO CABLEMATE TYPE 2 PLASTIC PIT OR SIMILAR		END CAP CONDUIT WITH STATION NO.
PIT-ID 5	ACO CABLEMATE TYPE 5 PLASTIC PIT OR SIMILAR		CAP SERVICE CONDUIT (P50/P20) P20=P23 mm NBNCo SERVICE CONDUIT
PIT-ID 8	ACO CABLEMATE TYPE 8 PLASTIC PIT OR SIMILAR		LOCAL CONDUIT (P100/P50)
PIT-ID 9	ACO CABLEMATE TYPE 9 PLASTIC PIT OR SIMILAR		EXISTING CONDUIT
PIT-ID C8	EXISTING NBNCo PIT		NBNCo STAGE BOUNDARY
			NBNCo LNC BOUNDARY

## NOTE:

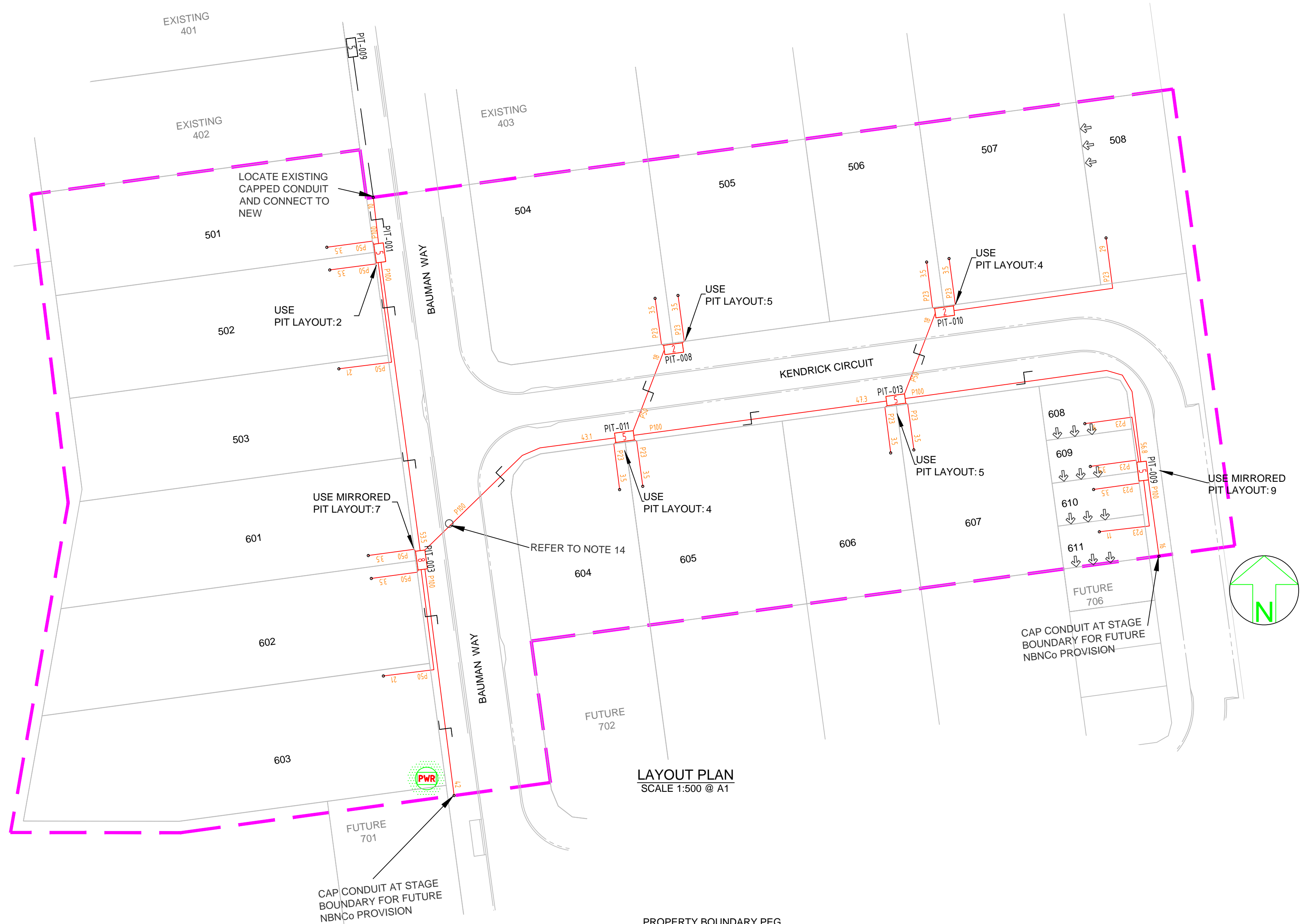
- PITS TO BE LOCATED CLEAR OF THE PILLAR EXCLUSION ZONE.
- PITS TO INCLUDE LID GASKET.
- SERVICE CONDUITS TO EXTEND 1m INSIDE THE FRONT PROPERTY BOUNDARY.
- CONDUITS TO ENTER AND EXIT AT ENDS OF PITS ONLY. LOCATE CONDUITS AS CENTRALLY IN PIT END WALLS AS POSSIBLE. MINIMUM SEPARATION BETWEEN CONDUITS TO BE 25 mm. REFER TO THE PIT END WALL DETAILS 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 AND CAP CONDUIT ENDS. SEAL CONDUITS AT PITS TO PREVENT ENTRY OF DUST AND MOISTURE.
- INSTALL NON CONDUCTIVE (METAL FREE) MARKER TAPE ABOVE ALL NBNCo CONDUITS, 300 mm BELOW FINISHED GROUND LEVEL.
- REFER TO ERGON ENERGY STANDARD DRAWINGS 5228 AND 5168 SHEETS 1 TO 3 FOR SHARED TRENCH CROSS SECTIONS.
- REFER TO NBNCo DOCUMENT NO. NBN-TE-CTO-194 (DEPLOYMENT OF THE NBN CO CONDUIT AND PIT NETWORK - GUIDELINES FOR DEVELOPERS) FOR DETAILED SPECIFICATION.
- GRADE TOP OF PIT TO MATCH VERGE / FOOTPATH.
- THERE IS A POSSIBLE TOTAL OF 55 RESIDENTIAL DWELLINGS OVER 19 LOTS, MADE UP OF 13 SINGLE AND 6 MULTI DWELLING UNITS WITH POSSIBLY 7 DWELLINGS EACH.
- ALL OF THE STAGE IS TO BE FED FROM EXISTING FDH INSTALLED IN STAGE 1. REFER TO NBNCo PROJECT NO: AYCA - H60W4 FOR DETAILS.
- WHERE REQUIRED, SUPPLY AND INSTALL SERVICE AND ROAD CROSSING CONDUIT SHOWN IN THE PIT LAYOUTS.
- WHERE CONDUIT BURIAL DEPTH IS LESS THAN THAT SPECIFIED IN THE NBNCo DEPLOYMENT OF CONDUIT AND PIT NETWORK GUIDELINES, SUPPLY AND INSTALL CONCRETE COVER (FOR VERGE AND FOOTPATH) / CONCRETE ENCASEMENT (FOR ROADWAYS) ENSURE THAT MINIMUM SEPARATION TO ALL OTHER SERVICES ARE MAINTAINED.
- SUPPLY AND INSTALL ADDITIONAL DEVIATING CONDUIT BENDS TO ACHIEVE THE INCREASED/DECREASED BURIAL DEPTH REQUIRED TO AVOID CLASH WITH OTHER SERVICES.

## SAFETY FIRST

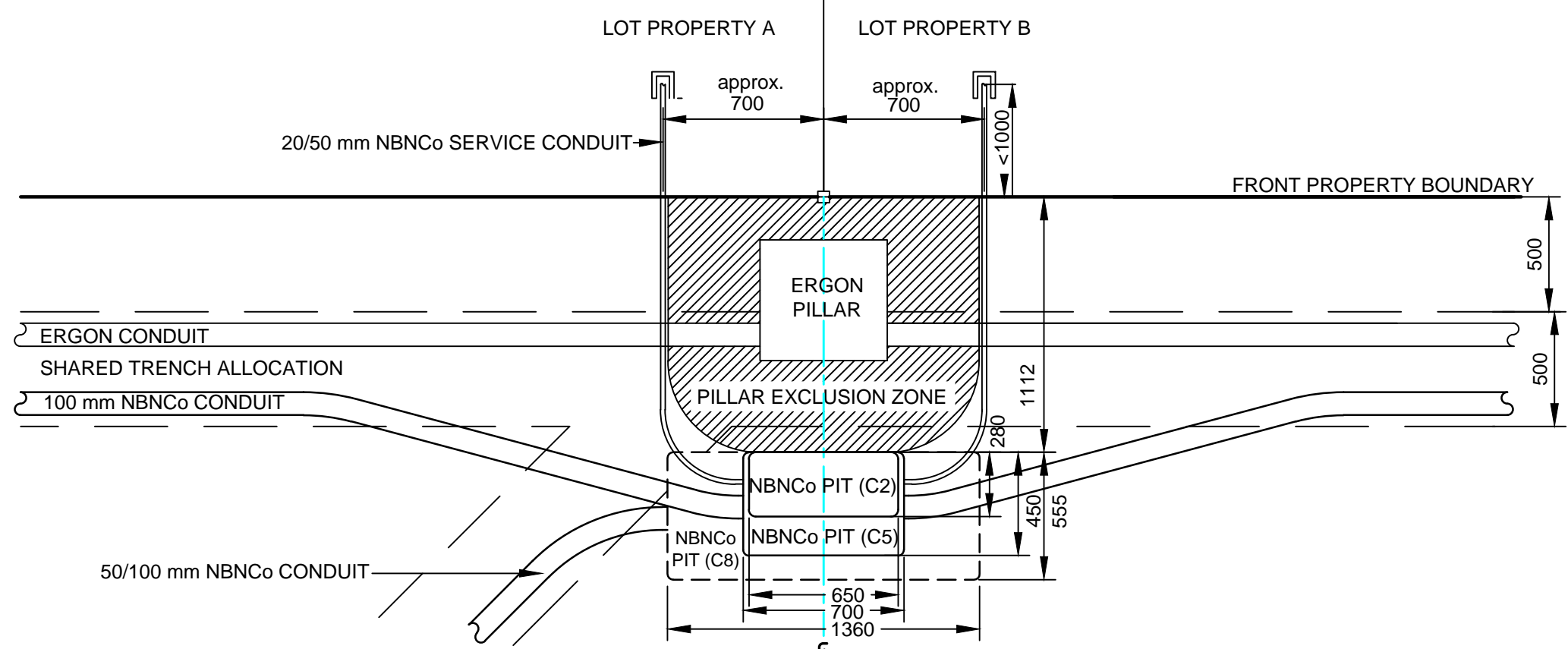
SAFETY STARTS WITH YOU

### STAFF WORKING ON THIS ESTIMATE PLEASE NOTE:

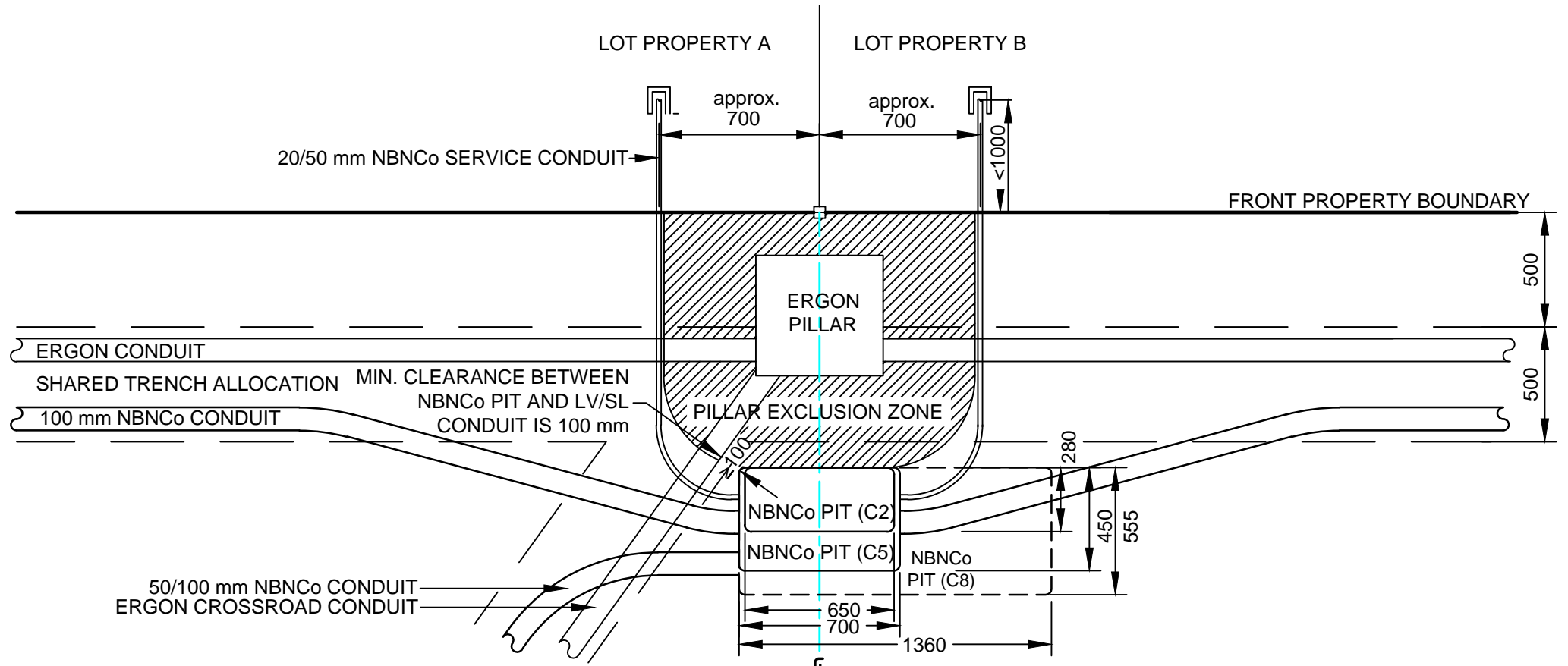
The location of other authorities services which may affect this work have not been obtained by the estimator. Constructor to obtain service information before commencing.



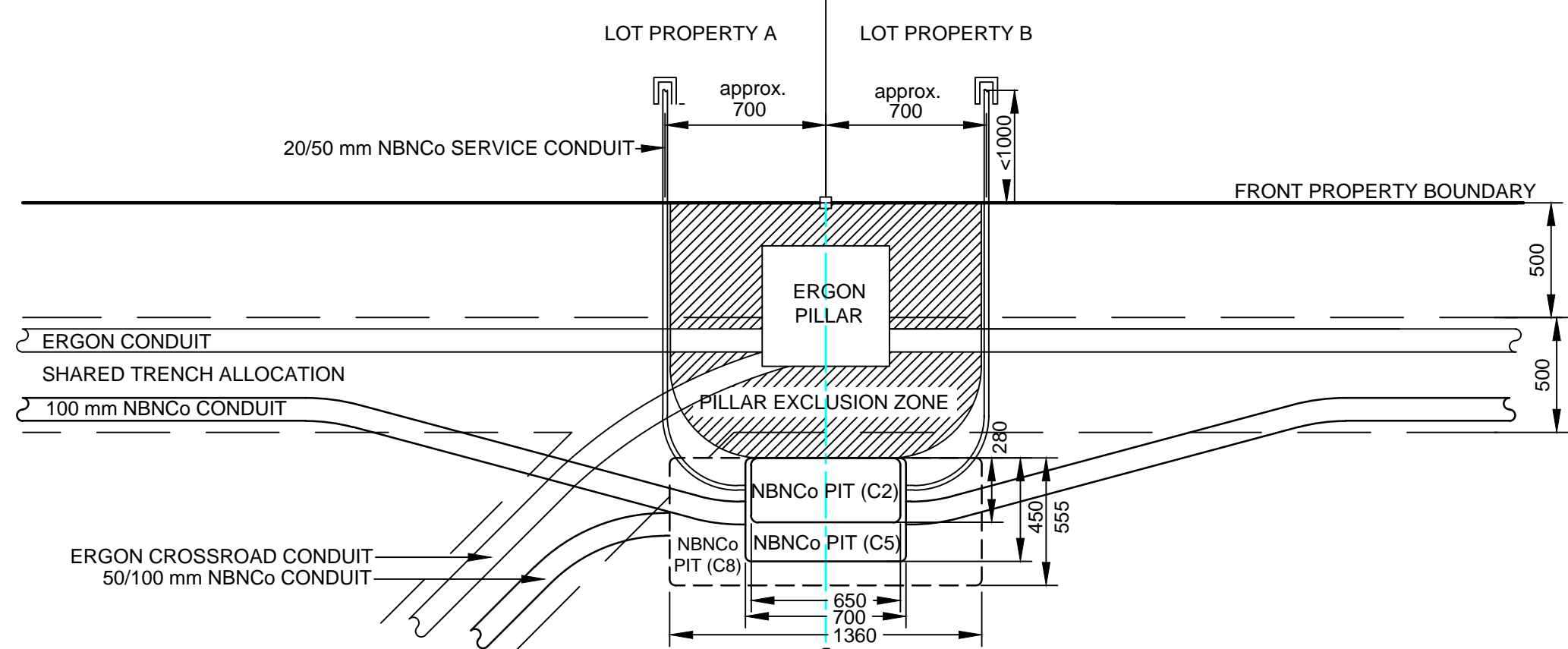




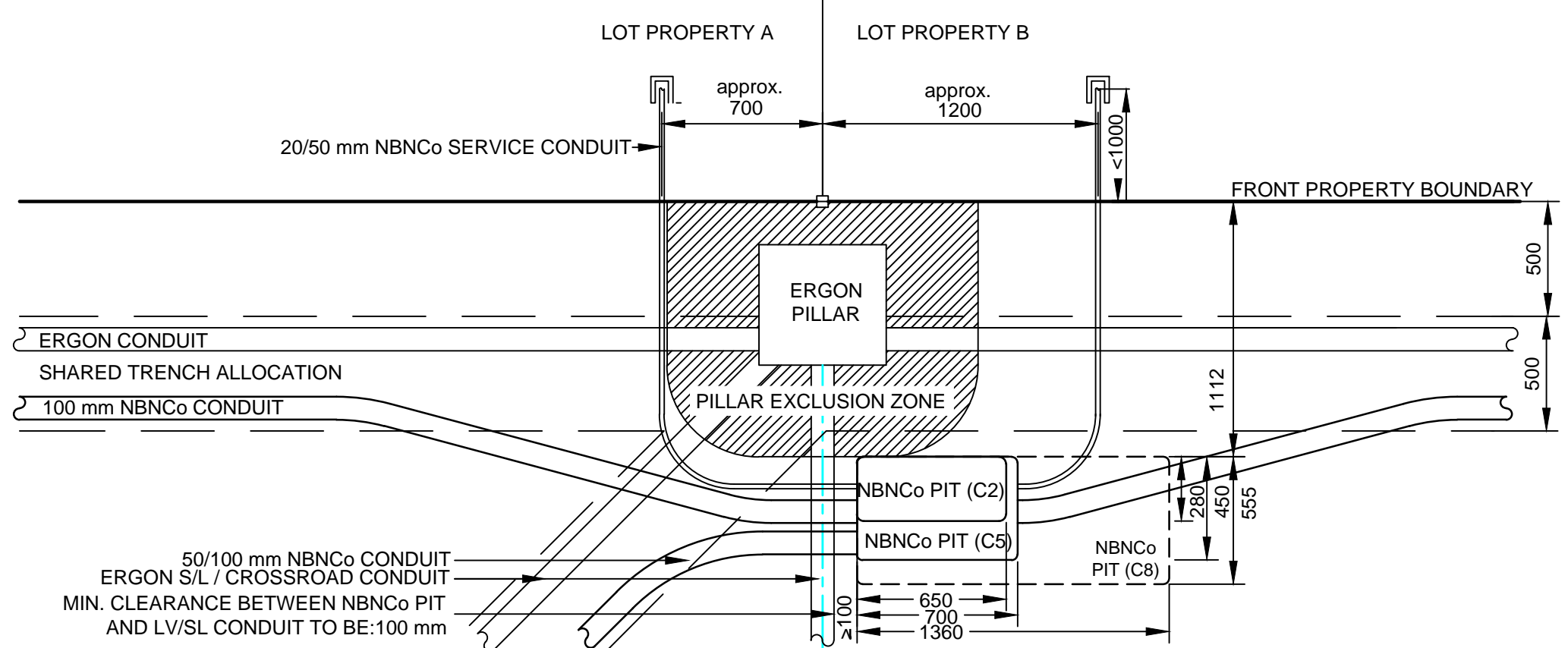
**PIT LAYOUT NO. 2 - PIT IN FRONT OF PILLAR, NO ERGON CROSS ROAD CONDUIT**  
 NOTE: - WHERE REQUIRED, MIRROR REVERSE  
 - ENSURE PIT TO BE CLEAR OF THE PILLAR EXCLUSION ZONE  
 - LOCATE PIT CENTRALLY ON PROLONGATION OF SIDE PROPERTY BOUNDARY  
 - WHERE REQUIRED, INSTALL SHOWN NBNC Co CONDUIT  
 (SCALE 1:25 @ A1)



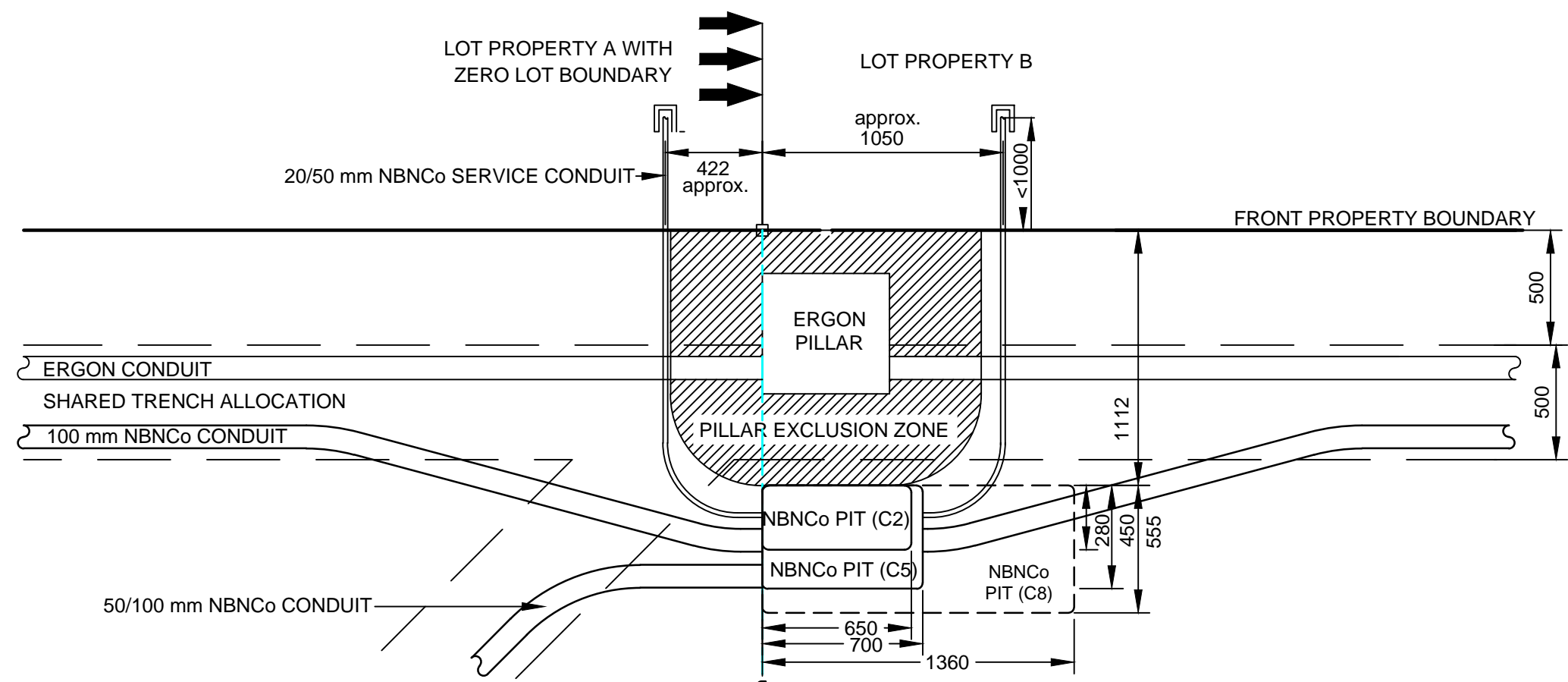
**PIT LAYOUT NO. 5 - PIT OFFSET TO PILLAR, ANGLED ERGON CROSS ROAD CONDUIT LESS THAN 90°**  
 NOTE: - WHERE REQUIRED, MIRROR REVERSE  
 - ENSURE PIT TO BE CLEAR OF THE PILLAR EXCLUSION ZONE  
 - LOCATE CENTER OF PIT AS CLOSE AS POSSIBLE TO THE PROLONGATION OF SIDE PROPERTY BOUNDARY  
 WHILST MAINTAINING A MINIMUM OF 100 mm CLEARANCE FROM ERGON CROSS ROAD CONDUIT  
 - WHERE REQUIRED, INSTALL SHOWN NBNC Co CONDUIT  
 (SCALE 1:25 @ A1)



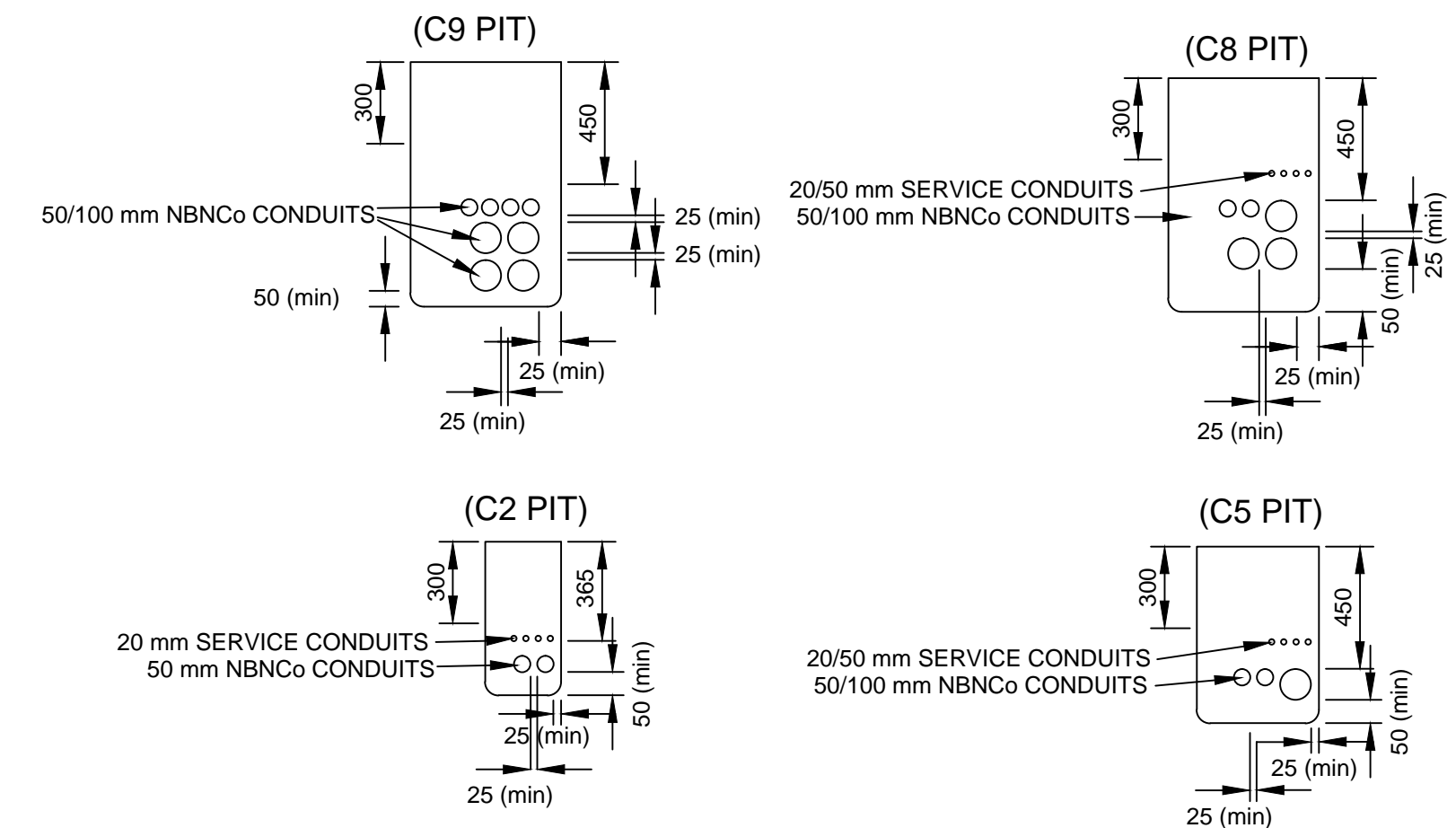
**PIT LAYOUT NO. 7 - PIT IN FRONT OF PILLAR, ADJUSTED ERGON CROSS ROAD CONDUIT**  
 NOTE: - WHERE REQUIRED, MIRROR REVERSE  
 - ENSURE PIT TO BE CLEAR OF THE PILLAR EXCLUSION ZONE  
 - LOCATE PIT CENTRALLY ON PROLONGATION OF SIDE PROPERTY BOUNDARY  
 - WHERE REQUIRED, INSTALL SHOWN NBNC Co CONDUIT  
 (SCALE 1:25 @ A1)



**PIT LAYOUT NO. 4 - PIT OFFSET TO PILLAR WITH ERGON ANGLED AND A 90° CROSS ROAD CONDUIT**  
 NOTE: - WHERE REQUIRED, MIRROR REVERSE  
 - ENSURE PIT TO BE CLEAR OF THE PILLAR EXCLUSION ZONE  
 - LOCATE PIT AS CLOSE AS POSSIBLE TO THE PROLONGATION OF SIDE PROPERTY BOUNDARY WHILST MAINTAINING A MINIMUM OF 100 mm CLEARANCE FROM ERGON CONDUIT  
 - WHERE REQUIRED, INSTALL SHOWN NBNC Co CONDUIT  
 (SCALE 1:25 @ A1)



**PIT LAYOUT NO. 9 - PIT IN FRONT OF PILLAR, NO ERGON CROSS ROAD CONDUIT (ZERO LOT BOUNDARY)**  
 NOTE: - WHERE REQUIRED, MIRROR REVERSE  
 - ENSURE PIT TO BE CLEAR OF THE PILLAR EXCLUSION ZONE  
 - ENSURE PIT TO BE CLEAR OF THE ZERO LOT BOUNDARY  
 - WHERE REQUIRED, INSTALL SHOWN NBNC Co CONDUIT  
 (SCALE 1:25 @ A1)



**TYPICAL PIT END WALL DETAILS**  
 SCALE 1:25 @ A1

AS CONSTRUCTED

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

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
D	18-06-13	SW	AS CONSTRUCTED	
C	24-09-2012	SW	FOR CONSTRUCTION	
B	18-09-2012	SW	FOR NBN RE-APPROVAL AS PER LOT AMALGAMATION.	
A	12-09-2012	AD	ISSUED FOR CONSTRUCTION	
1	23-08-2012	AD	FOR APPROVAL	

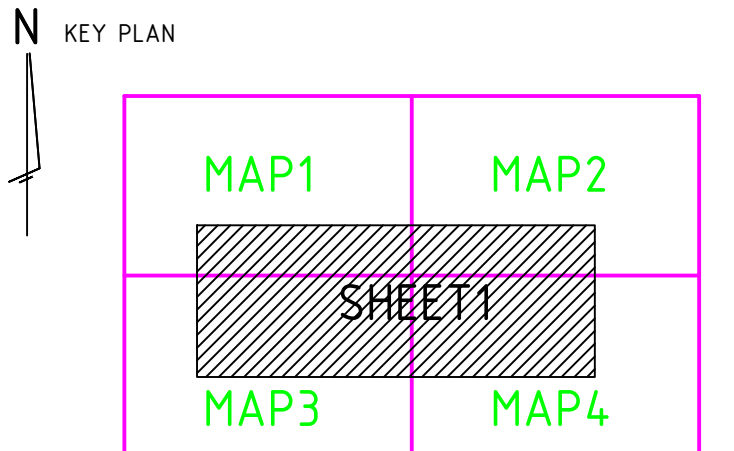
NBNC Co APPROVAL RECORD:

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<input type="checkbox"/> WD	
<input type="checkbox"/> AB	

QUALITY RECORD:

NBNC Co DISCLAIMER

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DRAWING TITLE:  
**BAUMAN WAY BLACKWATER STAGE 5 & 6**  
**NBN Co PIT AND PIPE DESIGN**  
**PIT LAYOUTS AND ENDWALL DETAIL**

STATE: **QLD** REGION: **CA**

FSA: \_\_\_\_\_ FSAM: \_\_\_\_\_ FDA: \_\_\_\_\_

PROJECT No: **AYCA - H60ZH**

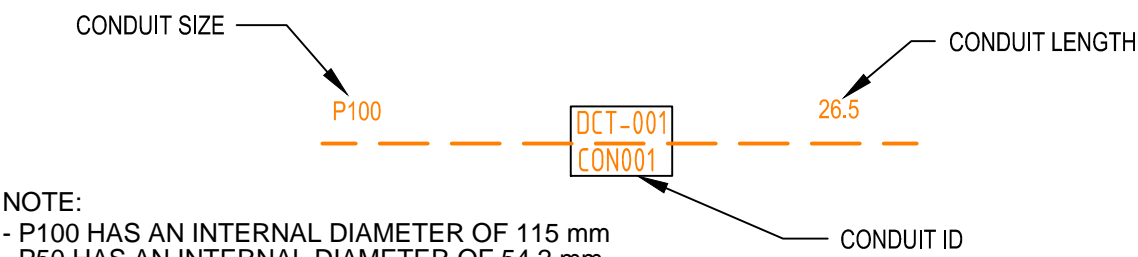
CADREF No: **2090 - T01**

SCALE: **AS SHOWN** SHEET No: **2** OF **2** REV: **0**



## CONDUIT CONFIGURATION

CONDUITS AND DUCTS ARE IN LAYER:  
< L460 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



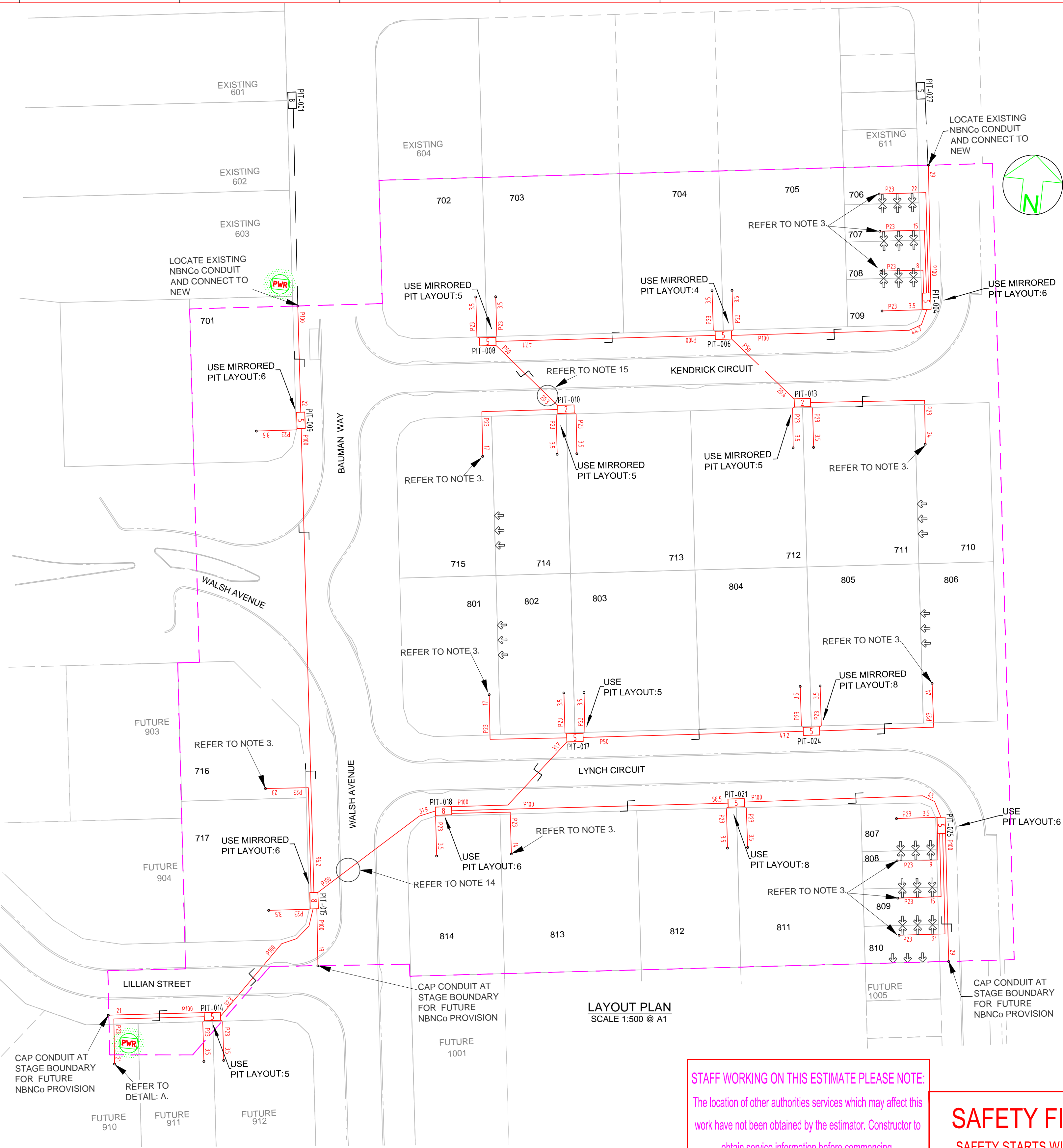
NOTE:  
- P100 HAS AN INTERNAL DIAMETER OF 115 mm  
- P50 HAS AN INTERNAL DIAMETER OF 54.2 mm  
- P20 HAS AN INTERNAL DIAMETER OF 23.2 mm

## LEGEND

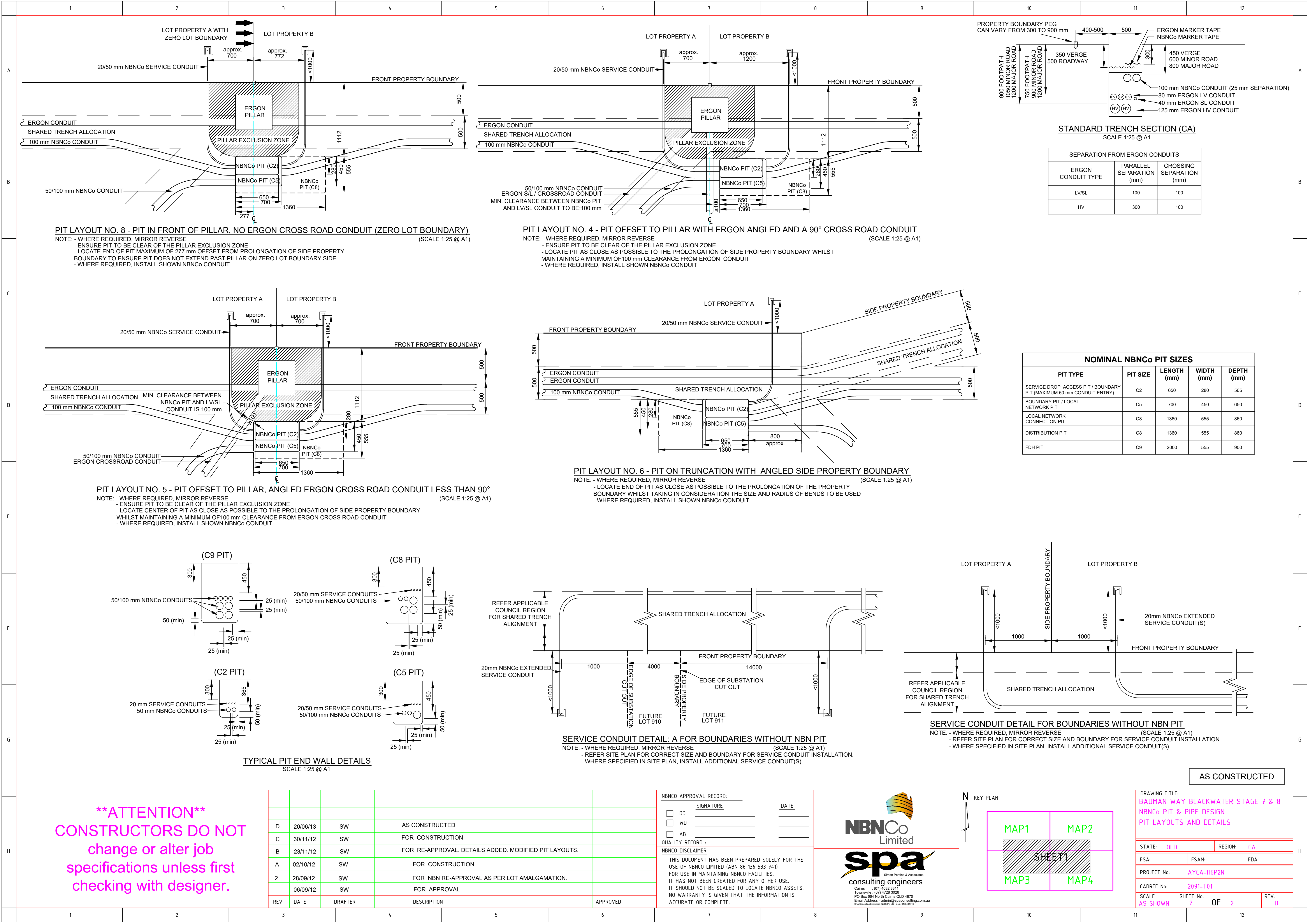
	TRANSFORMER / KIOSK / PAD MOUNT SUB-STATION / POLE MOUNT TRANSFORMER		SHARED TRENCH
	FIBRE DISTRIBUTION HUB FDH CABINET		ZERO LOT PROPERTY BOUNDARY
	ACO CABLEMATE TYPE 2 PLASTIC PIT OR SIMILAR		END CAP CONDUIT WITH STATION NO.
	ACO CABLEMATE TYPE 5 PLASTIC PIT OR SIMILAR		CAP SERVICE CONDUIT (P50/P20) P20=P23 mm NBNC Co SERVICE CONDUIT
	ACO CABLEMATE TYPE 8 PLASTIC PIT OR SIMILAR		LOCAL CONDUIT (P100/P50)
	ACO CABLEMATE TYPE 9 PLASTIC PIT OR SIMILAR		EXISTING CONDUIT
	EXISTING NBNC Co PIT		NBNC Co STAGE BOUNDARY
			NBNC Co LNC BOUNDARY

## NOTE:

- PITS TO BE LOCATED CLEAR OF THE PILLAR EXCLUSION ZONE.
- PITS TO INCLUDE LID GASKET.
- SERVICE CONDUITS TO EXTEND 1m INSIDE THE FRONT PROPERTY BOUNDARY. FOR DISTANCES FROM SIDE PROPERTY BOUNDARY, REFER APPLICABLE PIT LAYOUT DETAILS OR SERVICE CONDUIT DETAIL FOR BOUNDARIES WITHOUT NBN PIT. CONTRACTORS TO TIE TELECOMMUNICATIONS CAUTION TAPE TO END OF SERVICE CONDUITS AND EXTEND TO ABOVE GROUND LEVEL FOR FUTURE CONDUIT LOCATION.
- CONDUITS TO ENTER AND EXIT AT ENDS OF PITS ONLY. LOCATE CONDUITS AS CENTRALLY IN PIT END WALLS AS POSSIBLE. MINIMUM SEPARATION BETWEEN CONDUITS TO BE 25 mm. REFER TO THE PIT END WALL DETAILS 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 AND CAP CONDUIT ENDS. SEAL CONDUITS AT PITS TO PREVENT ENTRY OF DUST AND MOISTURE.
- INSTALL NON CONDUCTIVE (METAL FREE) MARKER TAPE ABOVE ALL NBNC Co CONDUITS, 300 mm BELOW FINISHED GROUND LEVEL.
- REFER TO ERGON ENERGY STANDARD DRAWINGS 5228 AND 5168 SHEETS 1 TO 3 FOR SHARED TRENCH CROSS SECTIONS.
- REFER TO NBNC Co DOCUMENT NO. NBN-TE-CTO-194 (DEPLOYMENT OF THE NBN CO CONDUIT AND PIT NETWORK - GUIDELINES FOR DEVELOPERS) FOR DETAILED SPECIFICATION.
- GRADE TOP OF PIT TO MATCH VERGE / FOOTPATH.
- THERE ARE A TOTAL OF 31 RESIDENTIAL SINGLE DWELLING LOTS.
- THE STAGE IS TO BE FED FROM EXISTING FDH INSTALLED IN STAGE 1. REFER TO NBNC Co PROJECT NO: AYCA-H60W4 FOR DETAILS.
- WHERE REQUIRED, SUPPLY AND INSTALL SERVICE AND ROAD CROSSING CONDUIT SHOWN IN THE PIT LAYOUTS.
- WHERE CONDUIT BURIAL DEPTH IS LESS THAN THAT SPECIFIED IN THE NBNC 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, NBNC Co CONDUIT TO BE INSTALLED UNDERNEATH STORM WATER. REFER TO THE NBNC 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.







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

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
D	20/06/13	SW	AS CONSTRUCTED	
C	30/11/12	SW	FOR CONSTRUCTION	
B	23/11/12	SW	FOR RE-APPROVAL. DETAILS ADDED. MODIFIED PIT LAYOUTS.	
A	02/10/12	SW	FOR CONSTRUCTION	
2	28/09/12	SW	FOR NBN RE-APPROVAL AS PER LOT AMALGAMATION.	
	06/09/12	SW	FOR APPROVAL	

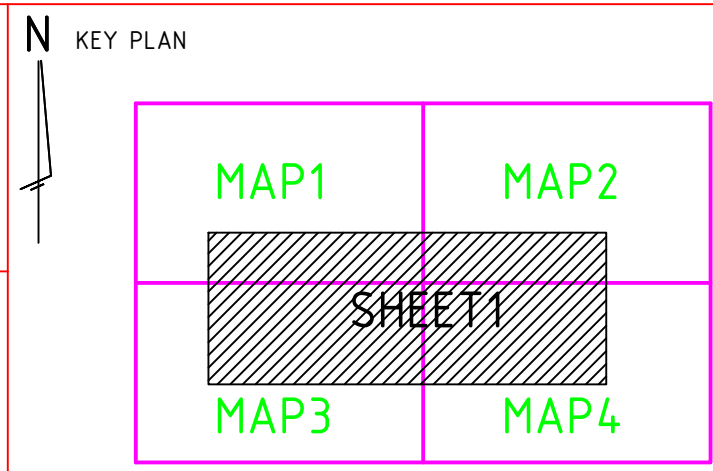
NBNC Co APPROVAL RECORD:

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

QUALITY RECORD:

NBNC Co DISCLAIMER

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DRAWING TITLE:  
**BAUMAN WAY BLACKWATER STAGE 7 & 8**  
**NBNC Co PIT & PIPE DESIGN**  
**PIT LAYOUTS AND DETAILS**

STATE: **QLD** REGION: **CA**

FSa: \_\_\_\_\_ FSAM: \_\_\_\_\_ FDA: \_\_\_\_\_

PROJECT No: **AYCA-H6P2N**

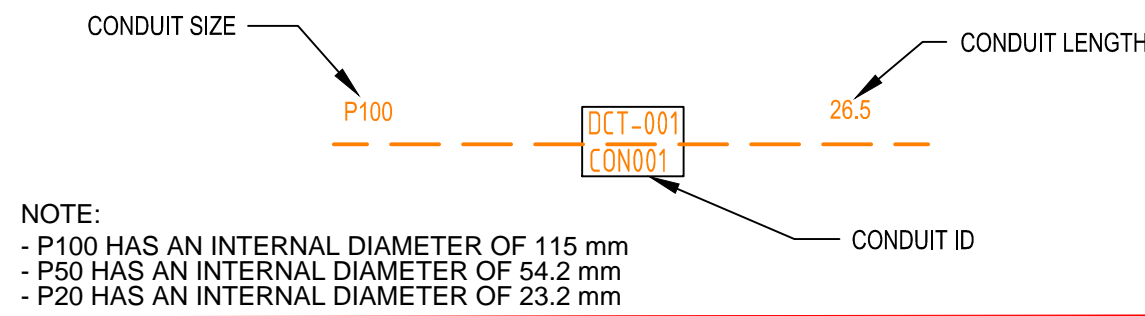
CADRef No: **2091-T01**

SCALE: **AS SHOWN** SHEET No. **2** OF **2** REV. **0**



## CONDUIT CONFIGURATION

CONDUITS AND DUCTS ARE IN LAYER:  
< L460 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:

- PITS TO BE LOCATED CLEAR OF THE PILLAR EXCLUSION ZONE.
- PITS TO INCLUDE LID GASKET.
- SERVICE CONDUITS TO EXTEND 1m INSIDE THE FRONT PROPERTY BOUNDARY. FOR DISTANCES FROM SIDE PROPERTY BOUNDARY, REFER APPLICABLE PIT LAYOUT DETAILS OR SERVICE CONDUIT DETAIL FOR BOUNDARIES WITHOUT NBN PIT. CONTRACTORS TO THE TELECOMMUNICATIONS CAUTION TAPE TO END OF SERVICE CONDUITS AND EXTEND TO ABOVE GROUND LEVEL FOR FUTURE CONDUIT LOCATION.
- CONDUITS TO ENTER AND EXIT AT ENDS OF PITS ONLY. LOCATE CONDUITS AS CENTRALLY IN PIT END WALLS AS POSSIBLE. MINIMUM SEPARATION BETWEEN CONDUITS TO BE 25 mm. REFER TO THE PIT END WALL DETAILS 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 AND CAP CONDUIT ENDS. SEAL CONDUITS AT PITS TO PREVENT ENTRY OF DUST AND MOISTURE.
- INSTALL NON CONDUCTIVE (METAL FREE) MARKER TAPE ABOVE ALL NBNCo CONDUITS, 300 mm BELOW FINISHED GROUND LEVEL.
- REFER TO ERGON ENERGY STANDARD DRAWINGS 5228 AND 5168 SHEETS 1 TO 3 FOR SHARED TRENCH CROSS SECTIONS.
- REFER TO NBNCo DOCUMENT NO. NBN-TE-CTO-194 (DEPLOYMENT OF THE NBN CO CONDUIT AND PIT NETWORK - GUIDELINES FOR DEVELOPERS) FOR DETAILED SPECIFICATION.
- GRADE TOP OF PIT TO MATCH VERGE / FOOTPATH.
- THERE ARE A TOTAL OF 28 SINGLE RESIDENTIAL DWELLINGS.
- ALL OF THE STAGE IS TO BE FED FROM A NEW FDH INSTALLED IN THIS STAGE. REFER TO NBNCo PROJECT NO: AYCA-H6P3V FOR DETAILS..
- WHERE REQUIRED, SUPPLY AND INSTALL SERVICE AND ROAD CROSSING CONDUIT SHOWN IN THE PIT LAYOUTS.
- WHERE CONDUIT BURIAL DEPTH IS LESS THAN THAT SPECIFIED IN THE NBNCo 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.
- SUPPLY AND INSTALL ADDITIONAL DEVIATING CONDUIT BENDS TO ACHIEVE THE INCREASED/DECREASED BURIAL DEPTH REQUIRED TO AVOID CLASH WITH OTHER SERVICES.

## NOMINAL NBNCo PIT SIZES

PIT TYPE	PIT SIZE	LENGTH (mm)	WIDTH (mm)	DEPTH (mm)
SERVICE DROP ACCESS PIT / BOUNDARY PIT (MAXIMUM 50 mm CONDUIT ENTRY)	C2	650	280	565
BOUNDARY PIT / LOCAL NETWORK PIT	C5	700	450	650
LOCAL NETWORK CONNECTION PIT	C8	1360	555	860
DISTRIBUTION PIT	C8	1360	555	860
FDH PIT	C9	2000	555	900

## LEGEND

	TRANSFORMER / KIOSK / PAD MOUNT SUB-STATION / POLE MOUNT TRANSFORMER		SHARED TRENCH
	FIBRE DISTRIBUTION HUB FDH CABINET		ZERO LOT PROPERTY BOUNDARY
	ACO CABLEMATE TYPE 2 PLASTIC PIT OR SIMILAR		END CAP CONDUIT WITH STATION NO.
	ACO CABLEMATE TYPE 5 PLASTIC PIT OR SIMILAR		CAP SERVICE CONDUIT (P50/P20) P20=P23 mm NBNCo SERVICE CONDUIT
	ACO CABLEMATE TYPE 8 PLASTIC PIT OR SIMILAR		LOCAL CONDUIT (P100/P50)
	ACO CABLEMATE TYPE 9 PLASTIC PIT OR SIMILAR		EXISTING CONDUIT
	EXISTING NBNCo PIT		NBNCo STAGE BOUNDARY
			NBNCo LNC BOUNDARY

AS CONSTRUCTED

**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.

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specifications unless first  
checking with designer.

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
B	26/06/13	SW	AS CONSTRUCTED. PIT 013 ADDED AND CONDUITS ROUTES CHANGED.	
A	30/11/12	SW	FOR CONSTRUCTION	
2	26/11/12	SW	FOR APPROVAL. RE-DESIGN AS PER LAYOUT CHANGE.	
1	17/09/12	SW	PRELIMINARY	

## NBNCo APPROVAL RECORD:

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

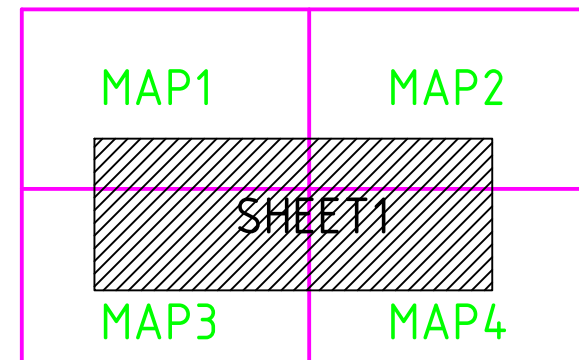
## QUALITY RECORD:

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## KEY PLAN



DRAWING TITLE:  
**BAUMANWAY BLACKWATER STAGE 9 & 10**  
NBNCo PIT & PIPE DESIGN  
SITE PLAN & DETAILS

STATE: QLD		REGION: CA	
FSA:	FSAM:		FDA:
PROJECT No:		AYCA-H6P3V	
CADREF No:		2092-T01	
SCALE	SHEET No.	OF	REV.
AS SHOWN	1	3	A







