

BREEZE ESTATE - STAGES 1 & 2

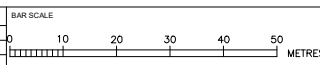
PRESSURE SEWER & RECYCLED WATER



| DRAWING LIST | |
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| WORK-AS-CREATED CERTIFICATION | | | |
|-------------------------------|---|------------------|----------------|
| DEVELOPER: | | | |
| PROJECT SUPERVISOR: | ROSE ATKINS PUMPER (INFRASTRUCTURE) Pty. Ltd. | | |
| CONSTRUCTOR: | ROOMBELL, Pty. Ltd. | | |
| COMPLETED: | AUGUST 2017 | W.A.C. PREPARED: | SEPTEMBER 2017 |

| REV | DESCRIPTION | DATE | APPR. |
|-----|---------------------------------|------------|--------|
| WAC | WORK-AS-CREATED | 26/09/2017 | D.S. |
| 05 | MINOR AMENDMENTS | 10/03/2017 | D.B.F. |
| 04 | GENERAL REVIEW | 08/03/2017 | D.B.F. |
| 03 | 2200 LITRE TANK LOCATIONS ADDED | 12/04/2016 | D.B.F. |
| 02 | ADDITIONAL ISOLATION VALVES | 04/03/2016 | D.B.F. |
| 01 | NEW ARRANGEMENT ROADS 1 & 2 | 23/02/2016 | D.B.F. |



| CLIENT PROJECT |
|---|
| PROPOSED HYDRAULIC SERVICES LAYOUT WELLS STREET, PITT TOWN |



North Western Surveys
 Surveyors, Engineers & Water Servicing Coordinators
 1/11 Romford Road, P.O. Box 1045, Blacktown N.S.W. 2148
 Phone: 9831-2040 Fax: 9822-5716 Email: nws@nwsurveys.com.au

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|-----------|--------|-----------------|------|-------------------|-------|
| SURVEYED: | N/A | GRID: | | DATUM: | |
| DRAWN: | D.B.F. | DRAFTING CHECK: | S.G. | HORIZONTAL RATIO: | 1:500 |
| DESIGNED: | D.B.F. | DESIGN CHECK: | S.H. | VERTICAL RATIO: | |

| | | | | | | |
|--------------------------------|--|--|--|------------------|---------------|--------------------------|
| PROJECT SUPERVISOR: A. LORRAIN | | | | DATE: 26/09/2017 | REVISION: WAC | PROJECT REFERENCE: 15370 |
|--------------------------------|--|--|--|------------------|---------------|--------------------------|

SHEET
1
OF 7
SHEETS

PRESSURE SEWER CONSTRUCTION NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH, BUT NOT LIMITED TO, THE PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA-07-2007, POLYTHENE PIPELINE CODE WSA 01-2004, PRESSURE SEWER SOLUTIONS Pty Ltd MASTERPLAN DRAWINGS & FLOW SYSTEMS (F.S.) REQUIREMENTS.
2. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, COMPLY WITH THE CURRENT APPLICABLE AUSTRALIAN STANDARDS & COMPLY WITH F.S. REQUIREMENTS.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
4. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES SUCH AS DUCTING FOR WATER OF ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORK.
5. PRESSURE MAIN SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007.
6. ALL POLYETHYLENE MAINS SHALL BE JOINED BY ELECTROFUSION TECHNIQUES IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS.
7. MAINS TO BE LAID GENERALLY 2.8m P.L. EXCEPT WHERE OTHERWISE SHOWN. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTPATHS & 1200mm FOR ROAD CROSSINGS. MAXIMUM PIPE COVER SHALL BE 1500mm, UNLESS SPECIFIED ON THE DESIGN PLANS OR APPROVAL IS OBTAINED FROM THE F.S. REPRESENTATIVE.
8. MAINS CROSSING UNDER DRIVEWAYS (SEALED, PAVED OR DECORATIVE) TO USE TRENCHLESS TECHNOLOGIES.
9. ALL MAINS LAID IN (TRAFFICABLE) CARRIAGEWAYS SHALL BE BACKFILLED WITH 20:1 STABILISED SAND CEMENT MIX.
10. MAINS WITHIN 2m OF ELECTRICITY OR POWER POLES TO USE TRENCHLESS TECHNOLOGIES UNLESS AGREED TO BY A F.S. REPRESENTATIVE.
11. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED AS A SUBSTITUTE.
12. ALL HOUSE LATERALS SHALL BE DN40 (PE100 PN16).
13. FLUSHING POINTS SHALL CONFORM WITH THE FOLLOWING:
TYPE 1: FLUSHING PIT SHALL BE POLYPROPYLENE WITH LIGHT DUTY COVER. 50mm 316S/S PIPE WITH BALL VALVE FOR SIZES DN125 & SMALLER.
14. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL PRIOR TO BACKFILLING.
15. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
16. ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (CLOCKWISE CLOSING) & SHALL BR RESTRAINED IN ACCORDANCE WITH WAT-1207.
17. UPON COMPLETION ALL SURFACES MUST BE RESTORED AS CLOSE AS PRACTICAL TO THE CONDITION THEY WERE PRIOR TO COMMENCEMENT. THE CONSTRUCTOR IS REQUIRED TO EXTENSIVELY PHOTOGRAPH THE SITE PRIOR TO COMMENCEMENT.
18. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED BY THE DESIGNER & APPROVAL FOR BACKFILLING GIVEN BY THE F.S. REPRESENTATIVE. THE CONTRACTOR WILL PROVIDE FLOW SYSTEMS WITH M.G.A. COORDINATES OF THE INSTALLATION.
19. BOUNDARY KITS SHALL BE 316 STAINLESS STEEL BALL VALVE & SWING CHECK VALVE MOND NOV (CLASS 16), COMPLETE WITH OPEN BASE ACCESS BOX WITH LD.
20. ALL MAINS ARE TO BE FLUSHED WITH WATER TO REMOVE DEBRIS PRIOR TO COMMISSIONING.
21. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO F.S. REQUIREMENTS.
22. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE SEWERAGE CODE OF AUSTRALIA (CLAUSE 22.3.4.4) ARE:
TRAFFICABLE:
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: NIL (REFER NOTE 8)
NON-TRAFFICABLE:
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 8 TESTS
23. ALL TANKS TO BE MONO 2200 LITRE CAPACITY (PSS-VMS 150B PRL).

RECYCLED WATER CONSTRUCTION NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH, BUT NOT LIMITED TO, THE WATER SUPPLY CODE OF AUSTRALIA - WSA-03-2002.2 (SYDNEY WATER EDITION, PRESSURE SEWER SOLUTIONS Pty Ltd MASTERPLAN DRAWINGS & FLOW SYSTEMS REQUIREMENTS
https://flowsystems.com.au/governance/Land_Housing/Flow_Systems_Supplementary_Manual_to_WSSA.pdf).
2. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, COMPLY WITH THE CURRENT APPLICABLE AUSTRALIAN STANDARDS & COMPLY WITH FLOW SYSTEMS REQUIREMENTS.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
4. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES SUCH AS DUCTING FOR WATER OF ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORK.
5. MAINS TO BE LAID GENERALLY 2.3m P.L. EXCEPT WHERE OTHERWISE SHOWN. MINIMUM PIPE COVER SHALL BE 600mm IN FOOTPATHS & 1000mm FOR ROAD CROSSINGS. MAXIMUM PIPE COVER SHALL BE 1500mm, UNLESS SPECIFIED ON THE DESIGN PLANS OR APPROVAL IS OBTAINED FROM THE FLOW SYSTEMS REPRESENTATIVE.
6. MAINS CROSSING UNDER DRIVEWAYS (SEALED, PAVED OR DECORATIVE) TO USE TRENCHLESS TECHNOLOGIES.
7. ALL MAINS LAID IN (TRAFFICABLE) CARRIAGEWAYS SHALL BE BACKFILLED WITH 20:1 STABILISED SAND CEMENT MIX.
8. MAINS WITHIN 2m OF ELECTRICITY OR POWER POLES TO USE TRENCHLESS TECHNOLOGIES UNLESS AGREED TO BY A FLOW SYSTEMS REPRESENTATIVE.
9. MARKER TAPE AND TRACING WIRE SHALL BE INSTALLED TO FLOW SYSTEMS REQUIREMENTS.
10. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
11. UPON COMPLETION ALL SURFACES MUST BE RESTORED AS CLOSE AS PRACTICAL TO THE CONDITION THEY WERE PRIOR TO COMMENCEMENT. THE CONSTRUCTOR IS REQUIRED TO EXTENSIVELY PHOTOGRAPH THE SITE PRIOR TO COMMENCEMENT.
12. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED BY THE DESIGNER & APPROVAL FOR BACKFILLING GIVEN BY THE FLOW SYSTEMS REPRESENTATIVE. THE CONTRACTOR WILL PROVIDE FLOW SYSTEMS WITH M.G.A. COORDINATES OF THE INSTALLATION.
13. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
14. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO FLOW SYSTEMS REQUIREMENTS.
15. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE SEWERAGE CODE OF AUSTRALIA (CLAUSE 22.3.4.4) ARE:
TRAFFICABLE:
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: NIL (REFER NOTE 7)
NON-TRAFFICABLE:
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 10 TESTS
16. ALL PROPERTY (MAIN TO METERS TO BE CONSTRUCTED TO FLOW SYSTEMS INSTALLATION REQUIREMENTS BY A LICENSED PLUMBER. THE WORKS ARE TO BE INSTALLED IN ACCORDANCE WITH THE CURRENT SYDNEY WATER PROPERTY (MAIN TO METERS) SERVICE INSTALLATIONS TECHNICAL REQUIREMENTS, NSW CODE OF PRACTICE FOR PLUMBING & DRAINAGE, AS/NZS3500 & https://flowsystems.com.au/governance/Land_Housing/Flow_Systems_Supplementary_Manual_to_WSSA.pdf).

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| 01 | NEW ARRANGEMENT ROADS 1 & 2 | 23/02/2016 | D.B.F. | |

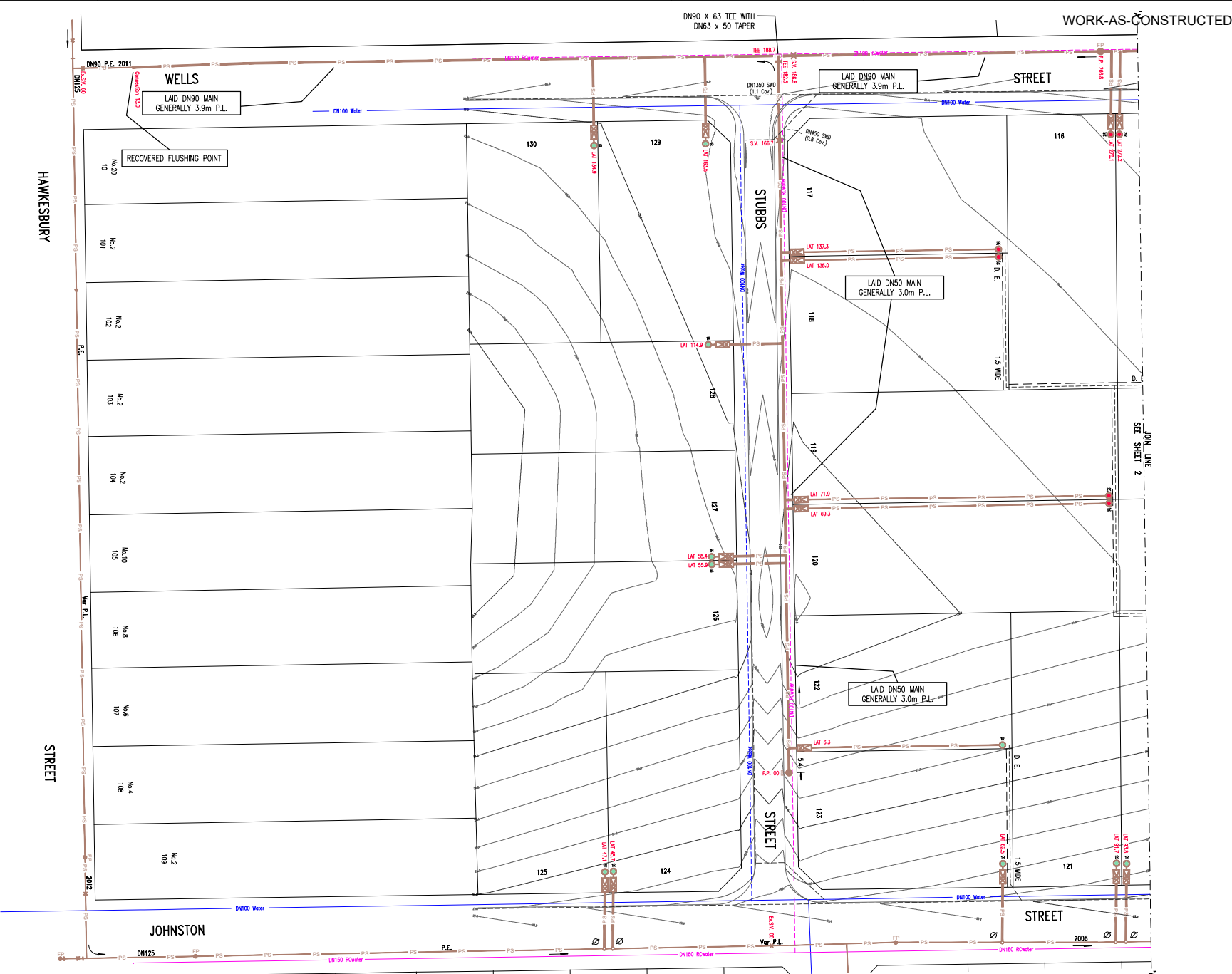
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| CLIENT PROJECT | |
| THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AND APPROVED BY PRINCIPAL CERTIFYING AUTHORITY | |

North Western Surveys
 Surveyors, Engineers & Water Servicing Coordinators
 1/11 Romford Road, P.O. Box 1045, Blacktown N.S.W. 2148
 Phone: 9831-2040 Fax: 9822-5716 Email: nws@nwsurveys.com.au

| | | | |
|-----------|-----------------|-------------------|--|
| SURVEYED: | GRD: | DATUM: | TITLE: |
| N/A | | | PROPOSED HYDRAULIC SERVICES WELLS STREET, PITT TOWN |
| DRAWN: | DRAFTING CHECK: | HORIZONTAL RATIO: | |
| D.B.F. | S.G. | 1:500 | |
| DESIGNED: | DESIGN CHECK: | VERTICAL RATIO: | |
| D.B.F. | S.H. | | |

| | | | |
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| PROJECT MANAGER: | DATE: | REVISION: | PROJECT REFERENCE: |
| A. LORRAIN | 26/09/2017 | WAC | 15370 |

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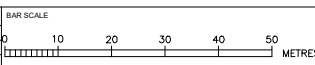


⊗ DENOTES DN125 X 40 TAPPING SADDLE

PIPE SCHEDULE

| SIZE | TYPE | CLASS | LENGTH |
|------|-------|-------|--------|
| DN90 | PE100 | PN16 | 398.2 |
| DN50 | PE100 | PN16 | 377.0 |
| DN40 | PE100 | PN16 | 892 |

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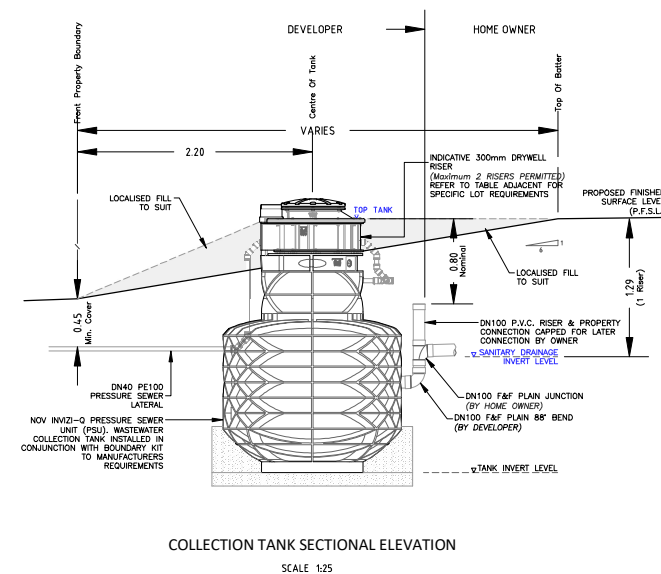
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| DRAWN: D.B.F. | DRAFTING CHECK: S.G. | HORIZONTAL RATIO: 1:500 |
| DESIGNED: D.B.F. | DESIGN CHECK: S.H. | VERTICAL RATIO: |

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|---|---------------------|------------------|-----------------------------|
| TITLE PLAN OF PROPOSED PRESSURE SEWER INFRASTRUCTURE WELLS STREET, PITT TOWN L.G.A. HAWKESBURY | | | |
| PROJECT MANAGER: A. LORRAIN | DATE: 26/09/2017 | REVISION: WAC | PROJECT REFERENCE: 15370 |

SHEET
3
 OF 7 SHEETS

| PRESSURE SEWER COLLECTION TANK LEVEL DETAILS | | | | | | | | |
|--|--------------------------|-----------|--------------------------|-------------------------------------|--------------------------------------|---------------------------------------|---|--|
| BREEZE ESTATE - STAGE 1 & 2 | | | | | | | | |
| LCT NUMBER | COLLECTION TANK LOCATION | TANK SIZE | P.F.S.L AT TANK LOCATION | QUANTITY OF DRYWELL RISERS REQUIRED | TOP OF COLLECTION TANK LID (P.F.S.L) | DESIGN SANITARY DRAINAGE INVERT LEVEL | TOP OF COLLECTION TANK LID * [Work-As-Constructed] | CALCULATED SANITARY DRAINAGE INVERT LEVEL [Work-As-Constructed] |
| 101 | FRONT | 2200L | 23.69 | 1 | 23.77 | 22.18 | 24.09 | 22.31 |
| 102 | FRONT | 2200L | 23.71 | 1 | 23.86 | 22.20 | 24.08 | 22.30 |
| 103 | REAR | 2200L | 23.55 | 1 | 23.63 | 22.34 | 23.97 | 22.49 |
| 104 | REAR | 2200L | 23.48 | 1 | 23.56 | 22.27 | 23.90 | 22.42 |
| 105 | REAR | 2200L | 23.22 | 1 | 23.30 | 22.01 | 23.59 | 22.11 |
| 106 | | | | | | | | |
| 107 | FRONT | 2200L | 22.48 | | 22.63 | 21.64 | 22.93 | 21.75 |
| 108 | FRONT | 2200L | 22.80 | 1 | 22.88 | 21.59 | 23.17 | 21.69 |
| 109 | FRONT | 2200L | 24.68 | 1 | 24.76 | 23.47 | 23.99 | 22.51 |
| 110 | FRONT | 2200L | 23.18 | 1 | 23.26 | 21.97 | 23.56 | 22.08 |
| 111 | FRONT | 2200L | 24.23 | 1 | 24.31 | 22.72 | 24.65 | 22.87 |
| 112 | FRONT | 2200L | 24.10 | 1 | 24.18 | 22.59 | 24.64 | 22.86 |
| 113 | FRONT | 2200L | 23.96 | 1 | 24.04 | 22.45 | 24.29 | 22.51 |
| 114 | FRONT | 2200L | 23.92 | 1 | 24.00 | 22.41 | 24.31 | 22.53 |
| 115 | FRONT | 2200L | 24.15 | 1 | 24.23 | 22.60 | 24.78 | 23.00 |
| 116 | FRONT | 2200L | 24.18 | 1 | 24.26 | 22.67 | 24.79 | 23.01 |
| 117 | REAR | 2200L | 24.51 | 1 | 24.59 | 23.00 | 25.02 | 23.24 |
| 118 | REAR | 2200L | 24.64 | 1 | 24.72 | 23.13 | 25.03 | 23.25 |
| 119 | REAR | 2200L | 24.69 | 1 | 24.77 | 23.18 | 25.12 | 23.34 |
| 120 | REAR | 2200L | 24.75 | 1 | 24.83 | 23.24 | 25.13 | 23.35 |
| 121 | FRONT | 2200L | 23.22 | 1 | 23.30 | 22.01 | 23.55 | 22.07 |
| 122 | REAR | 2200L | 24.23 | 1 | 24.31 | 23.02 | 24.63 | 23.15 |
| 123 | FRONT | 2200L | 23.39 | 1 | 23.47 | 22.18 | 23.67 | 22.19 |
| 124 | FRONT | 2200L | 23.83 | 1 | 23.91 | 22.62 | 24.14 | 22.66 |
| 125 | FRONT | 2200L | 23.85 | 1 | 23.93 | 22.64 | 24.14 | 22.66 |
| 126 | FRONT | 2200L | 25.03 | 1 | 25.11 | 23.82 | 25.58 | 24.10 |
| 127 | FRONT | 2200L | 25.05 | 1 | 25.13 | 23.84 | 25.60 | 24.12 |
| 128 | FRONT | 2200L | 24.86 | 1 | 24.94 | 23.65 | 25.25 | 23.77 |
| 129 | FRONT | 2200L | 24.83 | 1 | 24.91 | 23.62 | 25.20 | 23.72 |
| 130 | FRONT | 2200L | 25.06 | 1 | 25.14 | 23.85 | 25.43 | 23.95 |

* COLLECTION TANK LEVEL PROVIDED TO G.P.S. ACCURACY ONLY. THE BUILDER IS REQUIRED TO CONFIRM DRAINAGE CONSTRAINTS PRIOR TO MAKING CONNECTION TO TANK.



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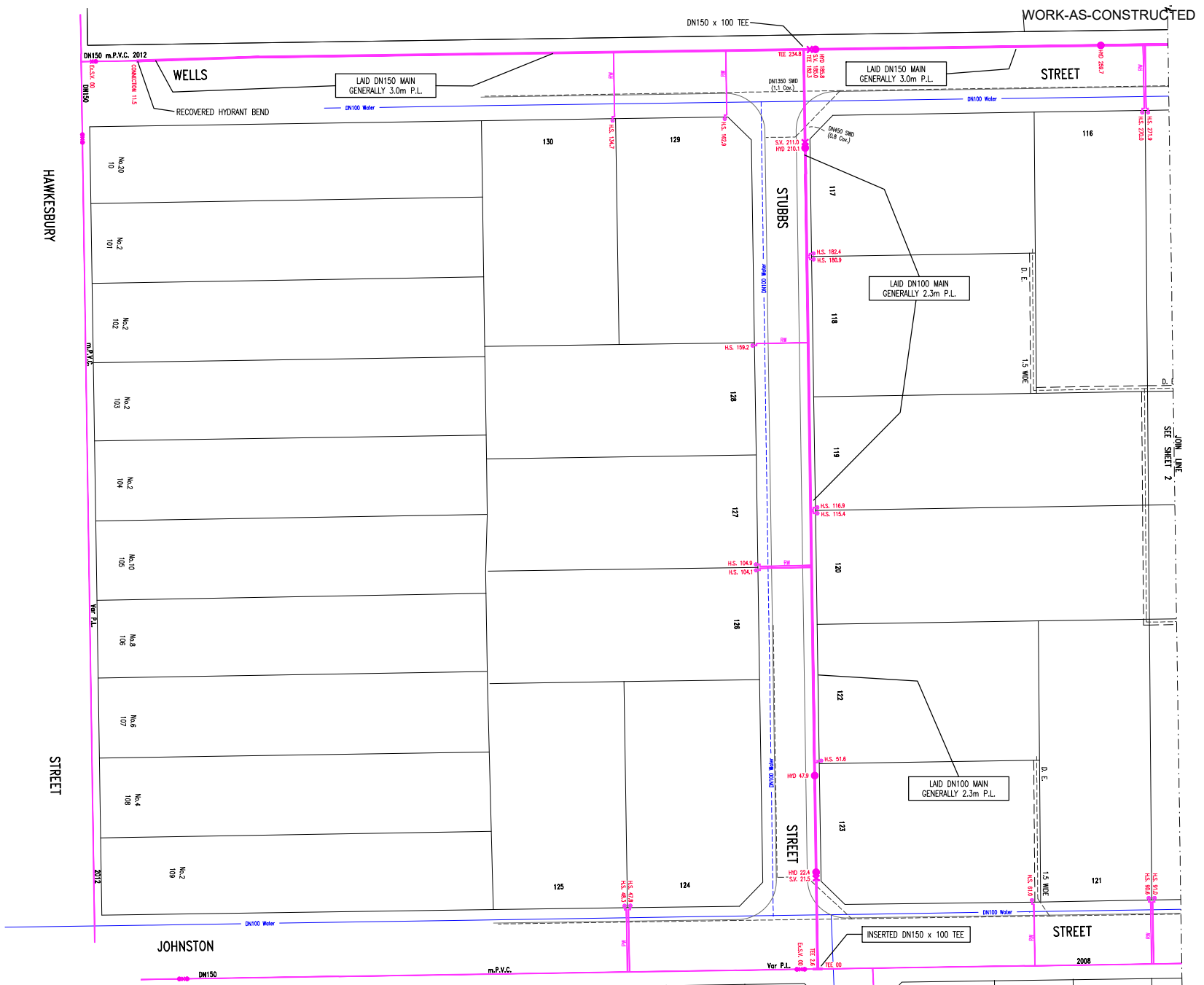
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| DRAWN: D.B.F. | DRAFTING CHECK: S.G. | HORIZONTAL RATIO: 1:500 | PROPOSED HYDRAULIC SERVICES WELLS STREET, PITT TOWN |
| DESIGNED: D.B.F. | DESIGN CHECK: S.H. | VERTICAL RATIO: | |

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| PROJECT MANAGER: A. LORRAIN | DATE: 26/09/2017 | REVISION: WAC | PROJECT REFERENCE: 15370 |
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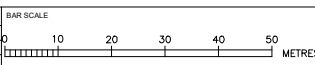
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PIPE SCHEDULE

| SIZE | TYPE | CLASS | LENGTH |
|-------|----------|-------|--------|
| DN150 | m.P.V.C. | PN16 | 428.5 |
| DN100 | m.P.V.C. | PN16 | 469.6 |

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| CLIENT PROJECT |
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| PLAN OF PROPOSED RECYCLED WATER INFRASTRUCTURE WELLS STREET, PITT TOWN L.G.A. HAWKESBURY |

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| DRAWN | DRAFTING CHECK | HORIZONTAL RATIO | DESIGNED |
| D.B.F. | S.G. | 1:500 | S.H. |
| DESIGNED | DESIGN CHECK | VERTICAL RATIO | PROJECT MANAGER |
| D.B.F. | S.H. | | A. LORRAIN |

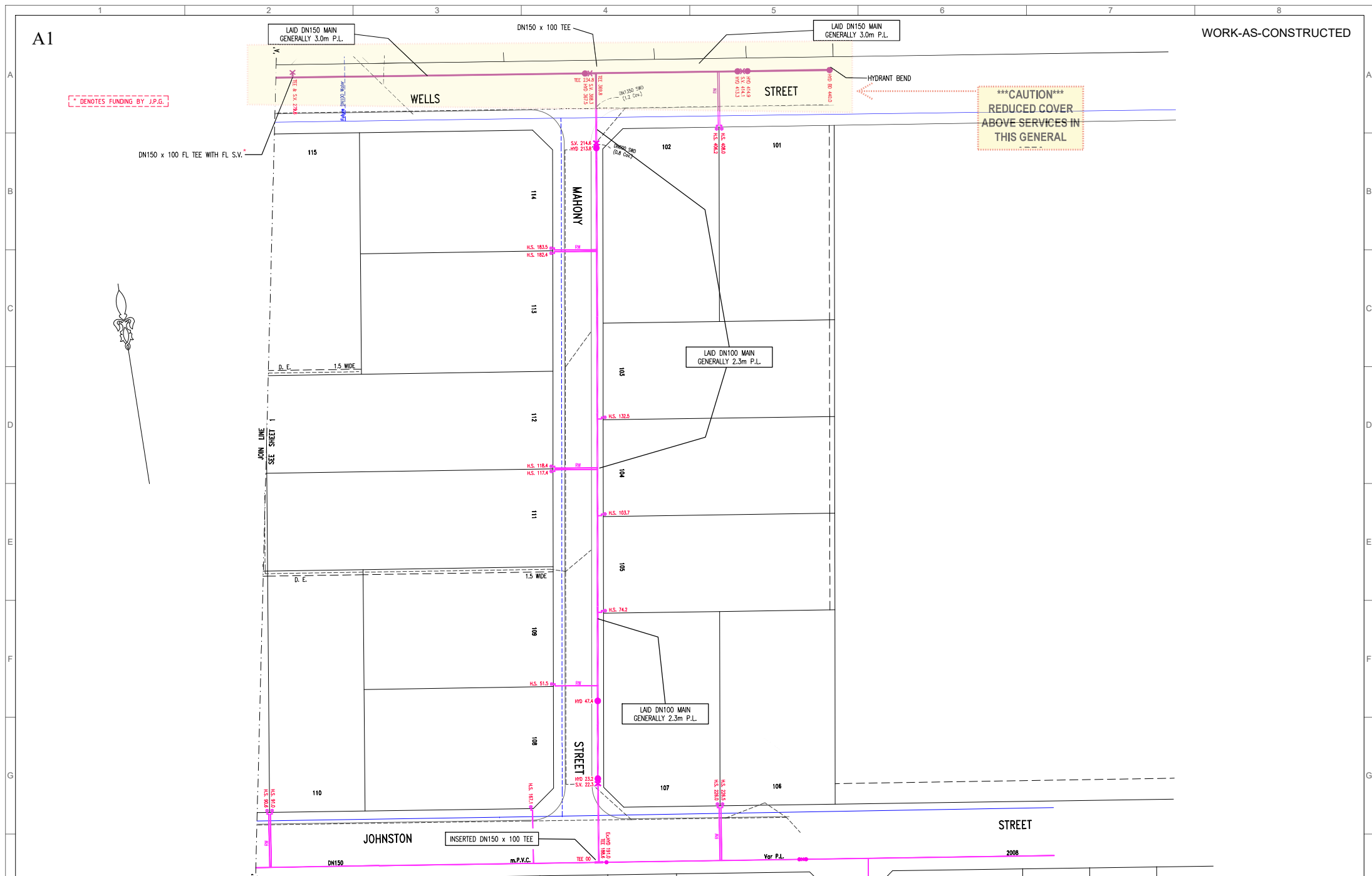
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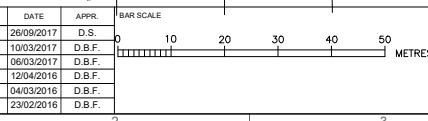
WORK-AS-CONSTRUCTED

* DENOTES FUNDING BY J.P.G.

CAUTION
REDUCED COVER
ABOVE SERVICES IN
THIS GENERAL



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| CLIENT PROJECT | PLAN OF PROPOSED RECYCLED WATER INFRASTRUCTURE WELLS STREET, PITT TOWN LGA: HAWKESBURY |
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SHEET
7
OF 7 SHEETS