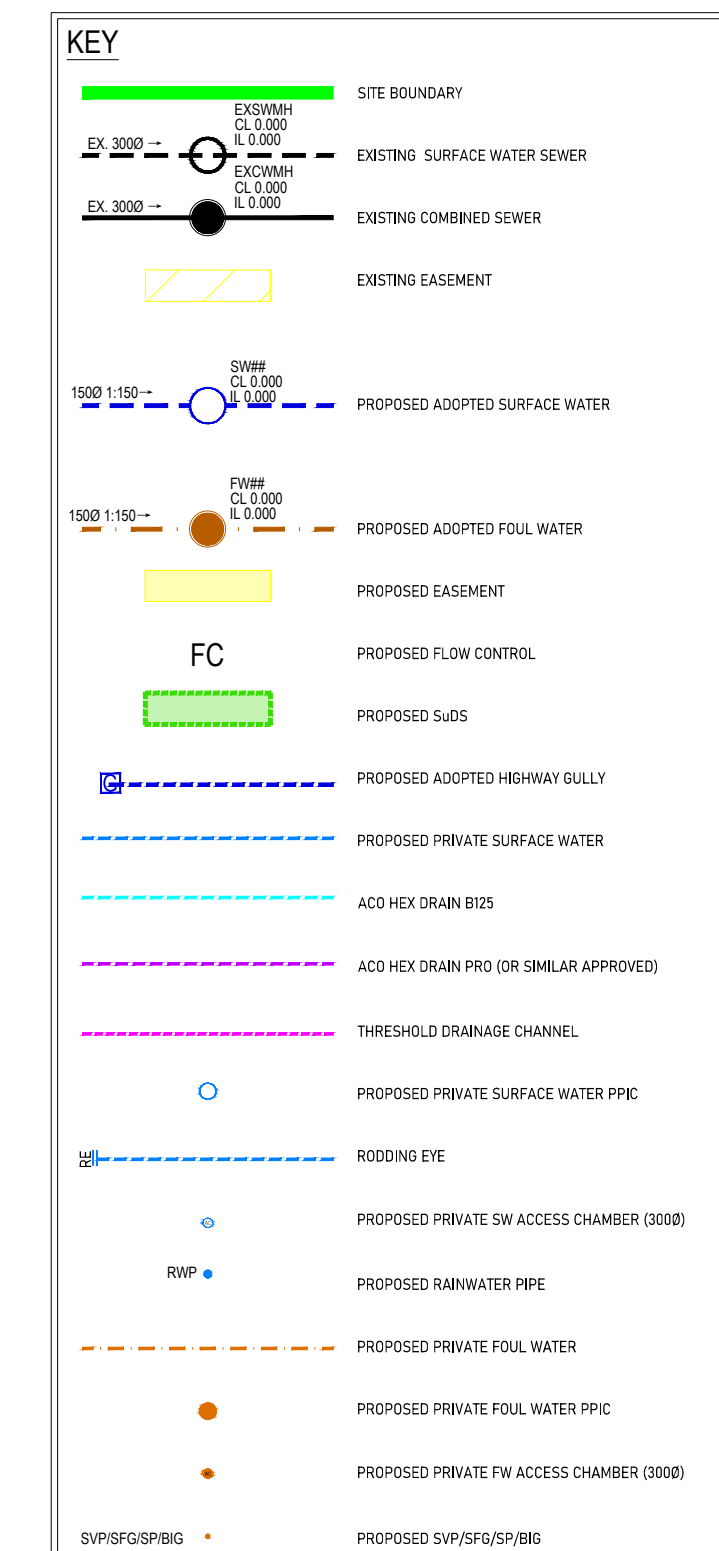


[illegible]

| DESIGN NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>ALL WORKS TO COMPLY WITH CURRENT VERSIONS OF THE FOLLOWING DOCUMENTS:</p> <p>DESIGN MANUAL FOR ROADS AND BRIDGES (2008)</p> <p>SPECIFICATION FOR HIGHWAY WORKS (SHW)</p> <p>LOCAL AUTHORITY DESIGN GUIDANCE AND SPECIFICATION</p> <p>PROVIDE TO COMMENCE WORKS THE CONTRACTOR SHOULD INVESTIGATE AND LOCATE AS NEARLY AS POSSIBLE TO THE EXISTING UTILITY RECORDS AND ASSESS THE DEPTHS AND REQUIREMENTS FOR LOWERING, DIVERSION AND PROTECTION WITH THE RELEVANT UNDERGART. ALL WORKS WITHIN THE PUBLIC HIGHWAY NEED LOCAL AUTHORITY REQUIREMENTS.</p> <p>CONSIDER TO ANY FOR ROAD OPENING NOTICES ETC AS REQUIRED</p> <p>CBR VALUE NOT AVAILABLE, ROAD CONSTRUCTION DETAIL SUBJECT TO CONFIRMATION OF CBR VALUES. CONTRACTOR TO ALLOW FOR LAB TESTS TO BE UNDERTAKEN IN AGREEMENT WITH THE LOCAL AUTHORITY ENGINEER.</p> <p>PROPOSED LINES HAVE BEEN BASED ON THE EXISTING TOPOGRAPHICAL SURVEY PROVIDED BY THE LOCAL AUTHORITY ENGINEER.</p> <p>PROPOSED DRAINAGE TAKEN ON THE LATEST AVAILABLE AIRTEL PHOTO PROVIDED BY THE CLIENT. SLOPES GREATER THAN 1 IN 4 MAY REQUIRE STABILISATION. GEOTECHNICAL ENGINEER TO BE CONSULTED.</p> |

**DRAINAGE NOTES:**

- ALL SLOPES 10% OR LESS OTHERWISE STATED.
- ALL PLOTS TO BE ADAPTED TO CONFORM TO 10% UNLESS OTHERWISE STATED.
- ALL PLOTS IN 3"X6" OR IDEAL TO HAVE DRAIN COVERS & CONCRETE BARRIERS.
- ALL PLOTS IN 10"X12" OR GREATER REQUIRE CONCRETE BARRIERS TO CONSTRUCTION.
- CONNECTIONS TO CONFORM TO COVER A MINIMUM LEVEL OF PROPOSED CONNECTION POINT PRIOR TO CONSTRUCTION.
- THE NIGHT LEVELS OF THE EXISTING SYSTEMS ARE TO BE VERIFIED PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORK. ANY VARIATION FROM THE EXISTING SYSTEMS SHALL BE NOTED.
- EXISTING MANHOLES TO BE MODIFIED TO ACCOMMODATE THE PROPOSED LATERAL CONNECTIONS.
- CONNECTIONS TO APPLY TO THE WATER AUTHORITY FOR THE SECTION 10 APPROVAL. TO MAKE THE CONNECTIONS, SLOPES ARE TO BE AS HIGH AS COMMON PRACTICE VERTICALITY.
- ALL STUD PIPES ARE TO BE CAPED.
- ALL EXISTING PIPES ARE TO BE REMOVED TO SUFFICIENT UNLESS OTHERWISE REFERRED TO MANHOLE SCHEDULE FOR FURTHER INFORMATION.
- ALL EXISTING FILTER DRAINAGE TO BE REMOVED BACK INTO PLOT DRAINAGE.
- STONE FILLED DRAIN DRAINS REQUIRED IN BACK GARDENS WHERE FALLING TOWARDS PROPERTY.
- FLOW DRAINAGE WORKS APPLICATION OR EQUIVALENT TO BE MADE TO THE LOCAL AUTHORITY PRIOR TO START OF WORK.

**PIPE MATERIALS**

- 150-2250: UPVC PIPES TO BE BSI KITEMARKED AND CERTIFIED TO WS 4-35-01 & BS EN1347.
- 300-8000: HDPE PIPES TO BE BSI KITEMARKED AND CERTIFIED TO MS 4-35-01 & BS EN1347.
- 675-13500: CONCRETE PIPES TO BE BSI KITEMARKED, CLASS 120 CONCRETE & CERTIFIED TO BS5911 & 1915.

**SUBJECT TO LOCAL AUTHORITY &  
WATER AUTHORITY APPROVAL**

**DRAINAGE SUMMARY:**

- **EXISTING DRAINAGE**
  - THERE IS A COMBINED SEWER CROSSING SITE, SEWER SIZE AND INVERT LEVELS ARE TO BE CONFIRMED

**SURFACE WATER**

- SURFACE WATER DISCHARGE FROM SITE IS RESTRICTED TO GRAB GREENFIELD EQUIVALENT OF 20/15
- SURFACE WATER FROM SITE TO DISCHARGE INTO THE EXISTING WATERCOURSE ALONG SOUTHERN BOUNDARY OF SITE AT PESTICIDE RIDE
- RUNOFF FROM NORTHERN PARTS OF SITE IS TO DISCHARGE INTO BASIN 1 AND BASIN 2 WHERE IT IS TO BE RESTRICTED TO 70/45 AND 34/25 A 10 YEAR + 40% CLIMATE CHANGE STORM
- DISCHARGE FROM BASIN 1 AND BASIN 2 AND RUNOFF FROM SOUTHERN SITE IS TO DISCHARGE INTO BASIN 3 WHERE IT IS TO BE RESTRICTED TO 20/15 AND DISCHARGE INTO WATERCOURSE
- SURFACE WATER ATTENUATION FOR ALL STORM EVENTS UP TO AND INCLUDING 100% 100 YEAR EVENT + 40% CLIMATE CHANGE AND 10% DEEP IS TO BE 30 MIN PREHOLD
- ALL CLIMATE CHANGE TO BE OFFERED FOR APPROVAL VIA 31A AGREEMENT

CLIMATE CHANGE SUBS TO BE

- FOULED WATER FROM PROPOSED DEVELOPMENT IS TO DISCHARGE INTO THE EXISTING COMBINED SEWER CROSSING THE SITE VIA A CONNECTION INTO EXISTING MANHOLE MH3.
- AN ALLOWANCE HAS BEEN MADE FROM FOULED FLOWS ENTERING SITE FROM AREA OF LI2 LOCATED TO WEST OF DEVELOPMENT SITE.
- THE AREA OF LI2 LOCATED TO NORTH OF DEVELOPMENT SITE CAN DISCHARGE DIRECTLY INTO THE COMBINED SEWER WITHIN LI2 NORTH OF THE DEVELOPMENT SITE.

|            |                                     |    |    |   |
|------------|-------------------------------------|----|----|---|
| 10.09.2026 | RE AND THRESHOLD DRAIN ADDED TO KEY | NA | AE | 5 |
| 07.09.2026 | AMENDED TO SUIT VSTRY COMMENTS      | NA | AE | 4 |
| 28.08.2026 | UPDATED TO SUIT NEW LAYOUT          | SR | AE | 3 |
| 29.07.2026 | PLOT DRAINAGE ADDED                 | NA | AE | 2 |
| 18.03.2026 | FIRST ISSUE                         | NA | AE | 1 |

|      |           |       |         |     |
|------|-----------|-------|---------|-----|
| Date | Revisions | Drawn | Checked | Rev |
|------|-----------|-------|---------|-----|

|            |        |
|------------|--------|
| Dwg Status | TENDER |
|------------|--------|



NORTH EAST 

0791 2585432

WORKSHIRE

CONSULTING ENGINEERS

WWW.RWD.GROUP  
INFO@RWD.GROUP

|        |  |
|--------|--|
| Client |  |
|--------|--|

VISTRY GROUP

|         |  |
|---------|--|
| Project |  |
|---------|--|

SHAW LANE

CARLTON

| Title |
|-------|
|-------|

PROPOSED DRAINAGE LAYOUT  
SHEET NO. 11-11

OVERALL PLAN

|              |                  |          |            |                 |
|--------------|------------------|----------|------------|-----------------|
| DO NOT SCALE | Scale @ A0:1:500 | Drawn NA | Checked AE | Date 18.03.2006 |
|--------------|------------------|----------|------------|-----------------|

|        |       |        |      |     |   |
|--------|-------|--------|------|-----|---|
| Job No | 24307 | Dwg No | D200 | Rev | 5 |
|--------|-------|--------|------|-----|---|

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| 21001 | 21000 | 0 |
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