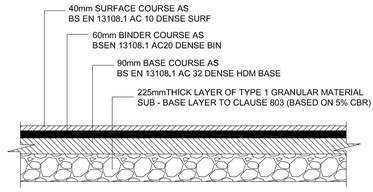
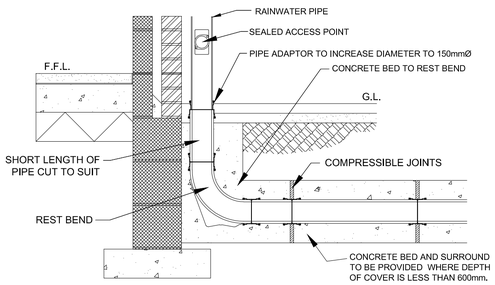


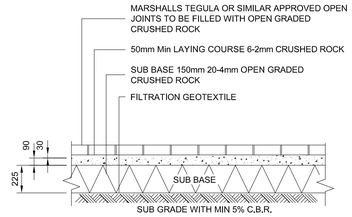

## 600mmØ PPIC INSPECTION CHAMBER (NON-TRAFFICKED AREAS)



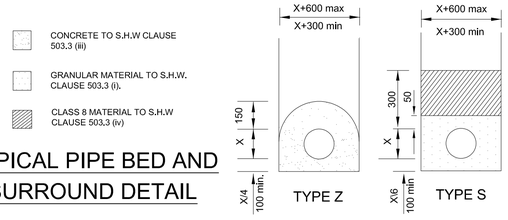

## TYPICAL CAR PARK CONSTRUCTION



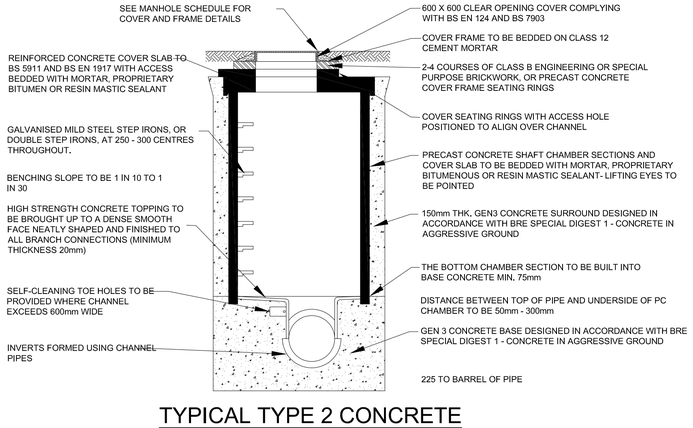

## TYPICAL RWP CONNECTION DETAIL




## TYPICAL CAR PARKING PERMEABLE PAVING CONSTRUCTION MARSHALLS TEGULA SYSTEM OR SIMILAR APPROVED




## TYPICAL PIPE BED AND SURROUND DETAIL




## TYPICAL TYPE 2 CONCRETE MANHOLE (PCC) DETAIL

MAX DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 0m - 3m

# DRAINAGE NOTES

1. ALL ADOPTABLE DRAINAGE WORKS TO SEWERS AND LATERAL DRAINS TO BE IN ACCORDANCE WITH SEWERS FOR ADOPTION 7th EDITION
2. THE LOCATION OF ALL EXISTING SEWERS ARE SHOWN AS APPROXIMATE ONLY THE CONTRACTOR IS TO SATISFY HIMSELF THAT ALL NECESSARY SURVEY WORKS HAVE BEEN COMPLETED PRIOR TO EXCAVATIONS COMMENCING ONSITE
3. FOR NON VEHICULAR TRAFFICKED AREAS THE BEDDING SPECIFICATION FOR ALL ADOPTABLE DRAINS SHALL BE CLASS "S". FOR PIPES LOCATED BELOW VEHICULAR TRAFFICKED AREAS WITH A DEPTH TO INVERT >1.2m BED AND SURROUND SPECIFICATION IS TO BE CLASS "Z"
4. PIPES TO BE BEDDED ON, OR CRADLED WITH, CONCRETE SHALL BE SUPPORTED ON PRECAST CONCRETE SETTING BLOCKS, THE TOP FACE OF EACH BLOCK BEING COVERED WITH 2 LAYERS OF COMPRESSIBLE PACKING.
5. CONCRETE PROVIDED AS A PROTECTION TO PIPES SHALL BE GRADE GEN3 (C20), PLACED TO THE REQUIRED DEPTH IN ONE OPERATION. WHERE PIPES WITH FLEXIBLE JOINTS ARE USED, CONCRETE PROTECTION SHALL BE INTERRUPTED OVER ITS FULL CROSS-SECTION AT EACH PIPE JOINT BY A SHAPED COMPRESSIBLE FILLER.
6. GRANULAR PIPE SURROUND MATERIAL, WHERE REQUIRED, IS TO BE PLACED AND COMPACTED OVER THE FULL WIDTH OF THE TRENCH IN LAYERS NOT EXCEEDING 150mm BEFORE COMPACTION, TO A FINISHED THICKNESS OF 300mm ABOVE THE CROWN OF THE PIPES
7. ALL PIPES TO BE LAID SOFFIT TO SOFFIT.
8. ALL LINES OF DRAINAGE INDICATED ARE PROVISIONAL ONLY AND THE EXACT POSITIONS OF ALL DRAINS MAY BE ALTERED TO SUIT AND DETERMINED ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY REVISIONS ARE TO BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
9. THE DEVELOPER MUST SELF-VET AND CERTIFY THAT THE DESIGN CRITERIA, MATERIAL STANDARDS AND WORKMANSHIP SPECIFICATIONS FOR THE PROPOSED ADOPTABLE SEWERS ARE IN ACCORDANCE WITH THOSE SET OUT IN 'SEWERS FOR ADOPTION' 7th EDITION (SFA 7th), AND UNITED UTILITIES AS THE STATUTORY SEWERAGE UNDERTAKER.
10. ALL PRECAST CONCRETE MANHOLE COMPONENTS SHALL BE IN ACCORDANCE WITH BS5911 Pt3 & BSEN 1917:2002.
11. INSITU CONCRETE TO BE GEN3 AND BE IN ACCORDANCE WITH BS EN 206-1 AND BS 8500.1
12. CONSTRUCTION JOINTS IN CONCRETE SURROUNDS MUST NOT BE WITHIN 150 OF CHAMBER SHAFT RING JOINTS.
13. ALL MANHOLE COVERS AND FRAMES SHALL COMPLY WITH BS. EN 124.
14. THE CONSTRUCTION SHOWN IS FOR NORMAL GROUND CONDITIONS.
15. WORKMANSHIP TO COMPLY TO BS 8000 PART 14 CODE OF PRACTICE FOR BELOW GROUND DRAINAGE AND SUPPLEMENTARY SPECIFICATIONS.
16. ANY CHANGE OF PIPE DIAMETER OR PIPE DIRECTION TO BE WITHIN THE MANHOLE CHAMBER
17. MANHOLE LEVELS TO BE FLUSH WITH EXTERNAL SURFACING AND 150mm BELOW FFL.
18. EXACT INVERT AND COVER LEVELS TO BE CONFIRMED ONSITE
19. DETAILS ONLY INTENDED AS A GUIDE EXACT SPECIFICATIONS TO BE OBTAINED FORM INDIVIDUAL MANUFACTURERS

| Rev | Date | Revision Details | By | Chkd | Appd |
|---|---|---|---|---|---|
| P2 | Nov 20 | LLFA COMMENTS ADDED | | | |
| P1 | Nov 20 | FIRST ISSUE | | | |

Client

Project
SMITHY GREEN NEWHEY

Title
PROPOSED DRAINAGE ARRANGEMENT
SHEET 2 OF 2

| Drawing No. | Revision |
|---|---|
| 20/001 | P2 |

| Scale | N.T.S | Date | NOVEMBER 2020 |
|---|---|---|---|
| Drawn | Chk | App | |