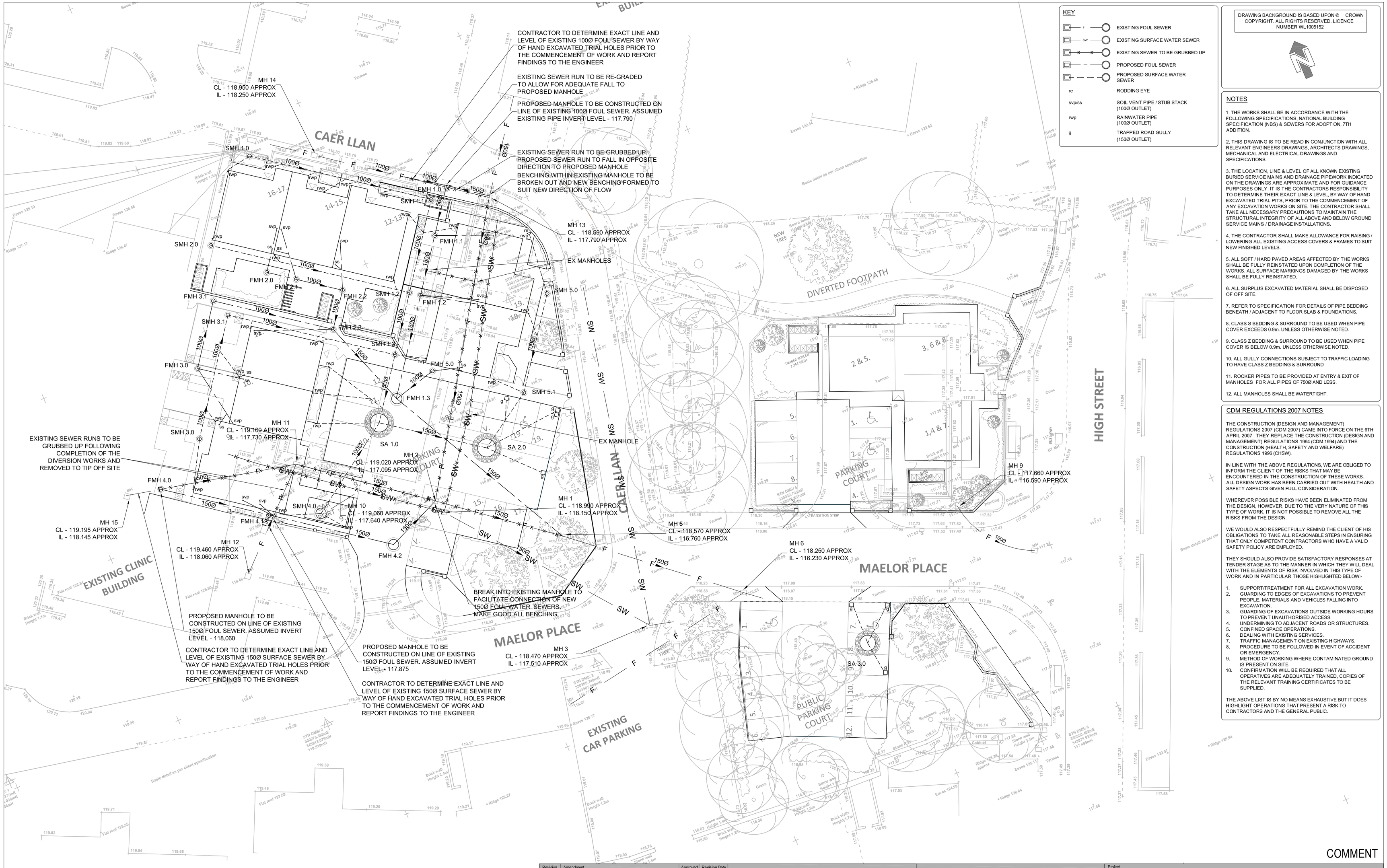


## KEY

- EXISTING FOUL SEWER
- EXISTING SURFACE WATER SEWER
- EXISTING SEWER TO BE GRUBBED UP
- PROPOSED FOUL SEWER
- PROPOSED SURFACE WATER SEWER
- re — RODDING EYE
- svp/ss — SOIL VENT PIPE / STUB STACK (100Ø OUTLET)
- rwp — RAINWATER PIPE (100Ø OUTLET)
- g — TRAPPED ROAD GULLY (150Ø OUTLET)

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## NOTES

1. THE WORKS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, NATIONAL BUILDING SPECIFICATION (NBS) & SEWERS FOR ADOPTION, 7TH ADDITION.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS, ARCHITECTS DRAWINGS, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.

3. THE LOCATION, LINE & LEVEL OF ALL KNOWN EXISTING BURIED SERVICE MAINS AND DRAINAGE PIPEWORK INDICATED ON THE DRAWINGS ARE APPROXIMATE AND FOR GUIDANCE PURPOSES ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXACT LINE & LEVEL, BY WAY OF HAND EXCAVATED TRIAL PITS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS ON SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALL ABOVE AND BELOW GROUND SERVICE MAINS / DRAINAGE INSTALLATIONS.

4. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR RAISING / LOWERING ALL EXISTING ACCESS COVERS & FRAMES TO SUIT NEW FINISHED LEVELS.

5. ALL SOFT / HARD PAVED AREAS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED UPON COMPLETION OF THE WORKS. ALL SURFACE MARKINGS DAMAGED BY THE WORKS SHALL BE FULLY REINSTATED.

6. ALL SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF SITE.

7. REFER TO SPECIFICATION FOR DETAILS OF PIPE BEDDING BENEATH / ADJACENT TO FLOOR SLAB & FOUNDATIONS.

8. CLASS S BEDDING & SURROUND TO BE USED WHEN PIPE COVER EXCEEDS 0.9m. UNLESS OTHERWISE NOTED.

9. CLASS Z BEDDING & SURROUND TO BE USED WHEN PIPE COVER IS BELOW 0.9m. UNLESS OTHERWISE NOTED.

10. ALL GULLY CONNECTIONS SUBJECT TO TRAFFIC LOADING TO HAVE CLASS Z BEDDING & SURROUND

11. ROCKER PIPES TO BE PROVIDED AT ENTRY & EXIT OF MANHOLES FOR ALL PIPES OF 750Ø AND LESS.

12. ALL MANHOLES SHALL BE WATERTIGHT.

## CDM REGULATIONS 2007 NOTES

THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2007 (CDM 2007) CAME INTO FORCE ON THE 6TH APRIL 2007. THEY REPLACE THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 1994 (CDM 1994) AND THE CONSTRUCTION (HEALTH, SAFETY AND WELFARE) REGULATIONS 1996 (CHSW).

IN LINE WITH THE ABOVE REGULATIONS, WE ARE OBLIGED TO INFORM THE CLIENT OF THE RISKS THAT MAY BE ENCOUNTERED IN THE CONSTRUCTION OF THESE WORKS. ALL DESIGN WORK HAS BEEN CARRIED OUT WITH HEALTH AND SAFETY ASPECTS GIVEN FULL CONSIDERATION.

WHEREVER POSSIBLE RISKS HAVE BEEN ELIMINATED FROM THE DESIGN, HOWEVER, DUE TO THE VERY NATURE OF THIS TYPE OF WORK, IT IS NOT POSSIBLE TO REMOVE ALL THE RISKS FROM THE DESIGN.

WE WOULD ALSO RESPECTFULLY REMIND THE CLIENT OF HIS OBLIGATIONS TO TAKE ALL REASONABLE STEPS IN ENSURING THAT ONLY COMPETENT CONTRACTORS WHO HAVE A VALID SAFETY POLICY ARE EMPLOYED.

THEY SHOULD ALSO PROVIDE SATISFACTORY RESPONSES AT TENDER STAGE AS TO THE MANNER IN WHICH THEY WILL DEAL WITH THE ELEMENTS OF RISK INVOLVED IN THIS TYPE OF WORK AND IN PARTICULAR THOSE HIGHLIGHTED BELOW:-

1. SUPPORT/TREATMENT FOR ALL EXCAVATION WORK.
2. GUARDING TO EDGES OF EXCAVATIONS TO PREVENT PEOPLE, MATERIALS AND VEHICLES FALLING INTO EXCAVATION.
3. GUARDING OF EXCAVATIONS OUTSIDE WORKING HOURS TO PREVENT UNAUTHORISED ACCESS.
4. UNDERMINING TO ADJACENT ROADS OR STRUCTURES.
5. CONFINED SPACE OPERATIONS.
6. DEALING WITH EXISTING SERVICES.
7. TRAFFIC MANAGEMENT ON EXISTING HIGHWAYS.
8. PROCEDURE TO BE FOLLOWED IN EVENT OF ACCIDENT OR EMERGENCY.
9. METHOD OF WORKING WHERE CONTAMINATED GROUND IS PRESENT ON SITE.
10. CONFIRMATION WILL BE REQUIRED THAT ALL OPERATIVES ARE ADEQUATELY TRAINED, COPIES OF THE RELEVANT TRAINING CERTIFICATES TO BE SUPPLIED.

THE ABOVE LIST IS BY NO MEANS EXHAUSTIVE BUT IT DOES HIGHLIGHT OPERATIONS THAT PRESENT A RISK TO CONTRACTORS AND THE GENERAL PUBLIC.

COMMENT

| Revision | Amendment | Approved | Revision Date |
|---|---|---|---|
| | | | |

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

RLD CONSTRUCTION

OPUS
Wrexham Office
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Opus House, Yale Business Village
Wrexham Technology Park,
Wrexham LL13 7YL

| Drawn | Designed | Approved | Revision Date |
|---|---|---|---|
| JR | JR | GNT | MAY '14 |

| Project No. | Scale |
|---|---|
| V-R6129.00 | 1:200 |

Project: MAELOR PLACE
RUABON

Sheet: PROPOSED FOUL AND SURFACE WATER DRAINAGE LAYOUT

| Drawing No. | Sheet. No. | Revision |
|---|---|---|
| V-R6129.00/500 | 01 | A |

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