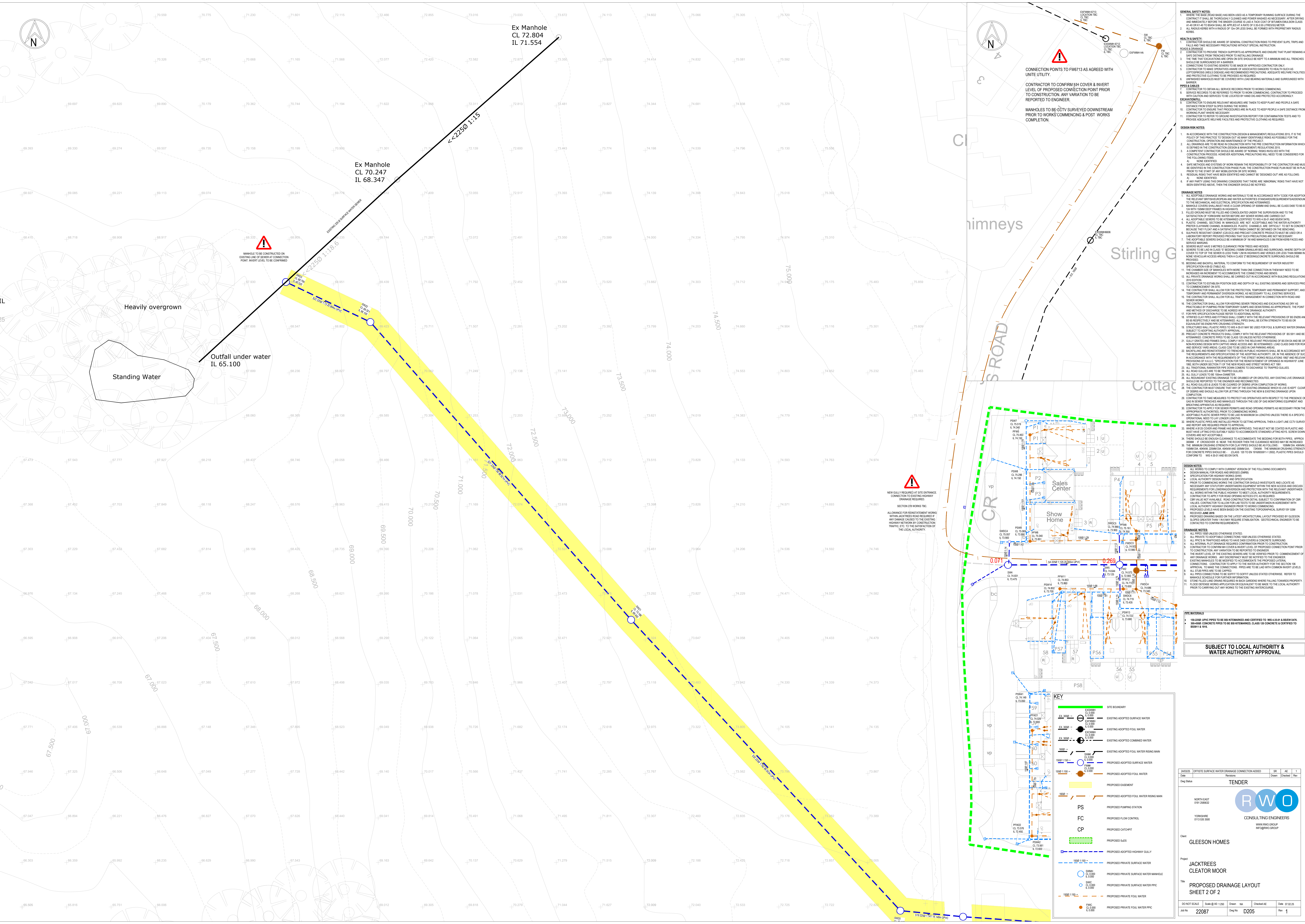




- GENERAL SAFETY NOTES:**
1. THE BASE ROAD BASE HAS BEEN USED AS A TEMPORARY RUNNING SURFACE DURING THE CONSTRUCTION OF THE DRAINAGE. IT SHALL BE THOROUGHLY CLEANED AND POWER WASHED AS NECESSARY AFTER DRAINING THE ROAD. THE BASE ROAD SHALL BE REPAIRED TO ITS ORIGINAL STANDARD AS SOON AS POSSIBLE.
 2. CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM THE TRENCHES PRIOR TO REMOVAL OF THE TRENCHES.
 3. THE TIME THAT EXCAVATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURVEILLED BY A COMPETENT PERSON.
 4. CONTRACTOR TO TAKE OPERATIONAL MEASURES TO PREVENT COLLAPSE OF EXISTING ADJACENT TRENCHES.
 5. CONTRACTOR TO TAKE OPERATIONAL MEASURES TO PREVENT COLLAPSE OF EXISTING ADJACENT TRENCHES.
 6. UNWISHERED MANHOLES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIERS.
- PIES & CABLES:**
1. CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKS COMMENCING.
 2. SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND AND NOT PROTECTED ACCORDINGLY.
- EXCAVATION:**
1. CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM EXCAVATIONS DURING THE WORKS.
 2. CONTRACTOR TO ENSURE THAT PROTECTIVE MEASURES ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING AREAS WHERE NECESSARY.
 3. CONTRACTOR TO REFER TO GROUND INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WEARABLE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.
- DESIGN RISK NOTES:**
1. IN ACCORDANCE WITH THE CONSTRUCTION DESIGN & MANAGEMENT REGULATIONS 2015, IF THE RISK OF THIS PRACTICE TO PERSONS OUT AS MANY IDENTIFIABLE RISKS AS POSSIBLE FOR THE CONSTRUCTION OPERATION AND MAINTENANCE OF THE PROJECT.
 2. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PRELIMINARY INFORMATION WHICH IS SUPPLIED TO THE CONTRACTOR.
 3. A COMPETENT CONTRACTOR SHOULD BE AWARE OF NORMAL RISKS INVOLVED WITH THE CONSTRUCTION OF THE PROJECT. HOWEVER, ADDITIONAL PRECAUTIONS WILL NEED TO BE CONSIDERED FOR THE FOLLOWING ITEMS:
 4. SAFE METHODS AND SYSTEMS OF WORK REMAIN THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE IDENTIFIED IN THE CONSTRUCTION PHASE PLAN. THE CONSTRUCTION PHASE PLAN MUST BE IN PLACE PRIOR TO THE START OF ANY MOBILIZATION OR SITE WORKS.
 5. RESIDUAL RISKS THAT HAVE BEEN IDENTIFIED AND CANNOT BE ELIMINATED OUT ARE AS FOLLOWS:
 6. A - NONE IDENTIFIED.
 7. B - NONE IDENTIFIED.
 8. IF ANY PARTY USING THIS DRAWING CONSIDERS THAT THERE ARE UNKNOWN RISKS THAT HAVE NOT BEEN IDENTIFIED ABOVE, THEN THE ENGINEER SHOULD BE NOTIFIED.

- DRAINAGE NOTES:**
1. ALL ACCEPTABLE DRAINAGE WORKS MATERIALS TO BE IN ACCORDANCE WITH 'CODE FOR ADOPTION' TO THE RELEVANT BRITISH/STANDARD AND WATER AUTHORITIES STANDARDS/REQUIREMENTS/STANDARDS.
 2. MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 600MM AND SHALL BE CLASS D40 TO BS EN 124 WITH 100MM DEEP FRAMES IN HIGHWAYS.
 3. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF CONCRETE WORKER BEFORE ANY OTHER WORKS ARE CARRIED OUT.
 4. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND THE WATER AUTHORITY PREFER CLAYWARE CHANNEL MANHOLES PLASTIC CHANNELS ARE DEFECTIVE TO SET IN CONCRETE BECAUSE THEY FLAY AND A CATERPILLAR FINISH CANNOT BE OBTAINED ON THE SIDINGS.
 5. ALL PLASTIC RESISTANT CHANNEL (C200) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDING PROOF THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
 6. THE ACCEPTABLE COVERINGS SHOULD BE A MINIMUM OF 100 AND MANHOLES 500 FROM ROAD FACES AND SERVICE MANSIONS.
 7. SEWERS MUST HAVE 5 METRES CLEARANCE FROM TREES AND HEDGES.
 8. SEWERS TO BE Laid IN CLASS 7 BEDDING (1000 GRANULAR BED) AND SURROUND, WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1200 IN HIGHWAYS AND VEHICLES IS LESS THAN 1000 IN NON-HIGHWAY AREAS. CLASS C200 CAN BE USED IN NON-HIGHWAY AREAS.
 9. STRUCTURED WALL PLASTIC PIPES SHALL BE USED FOR FOUL SURFACE WATER DRAINAGE SUBJECT TO ADOPTING AUTHORITY APPROVAL.
 10. PRECAST CONCRETE PRODUCTS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS 8011 AND BE IDENTIFIED. CONCRETE PIPES TO BE CLASS 100 UNLESS NOTED OTHERWISE.
 11. GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124 AND BE IDENTIFIED. NON-HIGHWAY DESIGN WITH COPTIVE (HIND) ACCESS AND BE IDENTIFIED. LOAD CLASS D40 FOR ROAD AND SERVICE TANKS AREAS. CLASS C200 CAN BE USED IN NON-HIGHWAY AREAS.
 12. THE MINIMUM COVERING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 1000MM DIA. 4000N. 1500MM DIA. 4000N. 2000MM DIA. 4000N AND 2500MM DIA. 4000N. THE MINIMUM COVERING STRENGTH FOR CONCRETE PIPES SHOULD BE: CLASS 100 TO BS 1988:BS EN 12002. PLASTIC PIPES SHOULD CONFORM TO BS 4761 AND BS EN 12002.
 13. ALL TRADITIONAL RAINWATER PIPE DOWN COVERS TO DISCHARGE TO STRAPPED GULLIES.
 14. ALL ROAD GULLIES ARE TO BE TRAPPOLES.
 15. ALL GULLY LEADS TO BE 100MM DIA.
 16. ALL ROADWATER COVERS TO BE 1000MM DIA. OR GREATER AND TO BE IDENTIFIED.
 17. ALL ROADWATER COVERS TO BE 1000MM DIA. OR GREATER AND TO BE IDENTIFIED.
 18. THE CONTRACTOR MUST ENSURE THAT ANY OF THE EXISTING DRAINAGE WHICH IS KEPT CLEAR OF DEBRIS AND SHOULD BE KEPT CLEAR FOR BETTER THROUGH THE NEW EXISTING DRAINAGE UPON COMPLETION.
 19. CONTRACTOR TO TAKE MEASURES TO PROTECT HIS OPERATIVES WITH RESPECT TO THE PRESENCE OF GAS IN SEWER TRENCHES AND MANHOLES THROUGH THE USE OF GAS MONITORING EQUIPMENT AND BEARING APPARATUS AS REQUIRED.
 20. CONTRACTOR TO APPLY FOR SEWER PERMITS AND ROAD OPENING PERMITS AS NECESSARY FROM THE APPROPRIATE AUTHORITIES PRIOR TO COMMENCING WORKS.
 21. ADOPTABLE PLASTIC SEWER PIPES TO BE Laid IN A MINIMUM 30 LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO VARY COVER LENGTHS.
 22. WHERE PLASTIC PIPES ARE INSTALLED PRIOR TO GETTING APPROVAL THEN A LIGHT LANE CCTV SURVEY AND REPORT ARE REQUIRED PRIOR TO APPROVAL.
 23. MUST HAVE FITTING SIZES SAFETY. NEED TO ACCOMMODATE STANDARD FITTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.
 24. THERE SHOULD BE SUFFICIENT CLEARANCE TO ACCOMMODATE THE BEDDING FOR BOTH PIPES. APPROX 100MM. IF DISCREPANCY IN BEDDING THE COVER THEN THE CLEARANCE NEEDS MAY BE REDUCED.
 25. THE MINIMUM COVERING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 1000MM DIA. 4000N. 1500MM DIA. 4000N. 2000MM DIA. 4000N AND 2500MM DIA. 4000N. THE MINIMUM COVERING STRENGTH FOR CONCRETE PIPES SHOULD BE: CLASS 100 TO BS 1988:BS EN 12002. PLASTIC PIPES SHOULD CONFORM TO BS 4761 AND BS EN 12002.

- DESIGN NOTES:**
1. ALL WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
 2. DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB).
 3. SPECIFICATION FOR HIGHWAY WORKS (SPE).
 4. LOCAL AUTHORITY DESIGN GUIDE AND SPECIFICATION.
 5. PRIOR TO COMMENCING WORKS THE CONTRACTOR SHOULD INVESTIGATE AND LOCATE AS NECESSARY ANY STATUTORY UNDERTAKERS EQUIPMENT WITHIN THE NEW ACCESS AND DISCUSS REQUIREMENTS FOR UNDERTAKING WORKS AND PROTECTION WITH THE RELEVANT UNDERTAKER.
 6. ALL WORKS WITHIN THE PUBLIC HIGHWAY TO MEET LOCAL AUTHORITY REQUIREMENTS.
 7. CONTRACTOR TO APPLY FOR ROAD OPENING NOTICES ETC AS REQUIRED.
 8. GRI VALVE NOT AVAILABLE. ROAD CONSTRUCTION DETAIL. SUBJECT TO CONFIRMATION OF GRI VALVE. CONTRACTOR TO APPLY FOR ROAD OPENING NOTICES ETC AS REQUIRED.
 9. LOCAL AUTHORITY HIGHWAY ENGINEER PRIOR TO WORKS COMMENCING.
 10. PROPOSED DRAINAGE BASED ON THE LATEST ARCHITECTURAL LAYOUT PROVIDED BY GLEESON HOMES.
 11. SLOPES GREATER THAN 1 IN 4 MAY REQUIRE STABILIZATION. GEOTECHNICAL ENGINEER TO BE CONSULTED TO CONFIRM REQUIREMENTS.

- DRAINAGE NOTES:**
1. ALL PIPES 1000 UNLESS OTHERWISE STATED.
 2. ALL PIPES IN UNPAVED AREAS TO HAVE D40 COVERS & CONCRETE SURROUND.
 3. ALL INTERNAL LOT DRAINAGE REQUIRES CONFIRMATION PRIOR TO CONSTRUCTION.
 4. CONTRACTOR TO CONFIRM MAN COVER INVERT LEVELS. REGULATED CONNECTION POINT PRIOR TO CONSTRUCTION. ANY VARIATION TO BE REPORTED TO ENGINEER.
 5. THE INVERT LEVELS OF THE SEWERS ARE TO BE IDENTIFIED IN AGREEMENT WITH THE EXISTING MANHOLES TO BE MOVED TO ACCOMMODATE THE PROPOSED DRAINAGE.
 6. ANY DISCREPANCY MUST BE NOTIFIED TO THE ENGINEER.
 7. CONTRACTOR TO APPLY TO THE WATER AUTHORITY FOR THE SECTION 106 APPROVAL TO MAKE THE CONNECTIONS. PIPES ARE TO BE Laid WITH COMMON INVERT LEVELS.
 8. ALL STUB PIPES ARE TO BE CARRIED.
 9. ALL PIPES CONNECTING TO BE SLOPED TO SLOPE UNLESS STATED OTHERWISE. REFER TO MANHOLE SCHEDULE FOR FURTHER INFORMATION.
 10. STONE FILL AND DRAIN REQUIRED IN BACK GARDENS WHERE FALLING TOWARDS PROPERTY.
 11. FLOOD DEFENSE WORKS APPLICATION OR EQUIVALENT TO BE MADE TO THE LOCAL AUTHORITY PRIOR TO CARRYING OUT ANY WORKS TO THE EXISTING WATERCOURSE.

- PIPE MATERIALS:**
- 1. 150-2250 UPVC PIPES TO BE BS 8011 MARKED AND CERTIFIED TO BS 4361 & BS EN 12002.
 - 2. 300-600 CONCRETE PIPES TO BE BS 8011 MARKED. CLASS 100 CONCRETE & CERTIFIED TO BS EN 12002 & BS EN 12002.

SUBJECT TO LOCAL AUTHORITY & WATER AUTHORITY APPROVAL

STATUS	DATE	BY	CHK	AE	REV
1	22/08/23	22087	22087	22087	1

TENDER

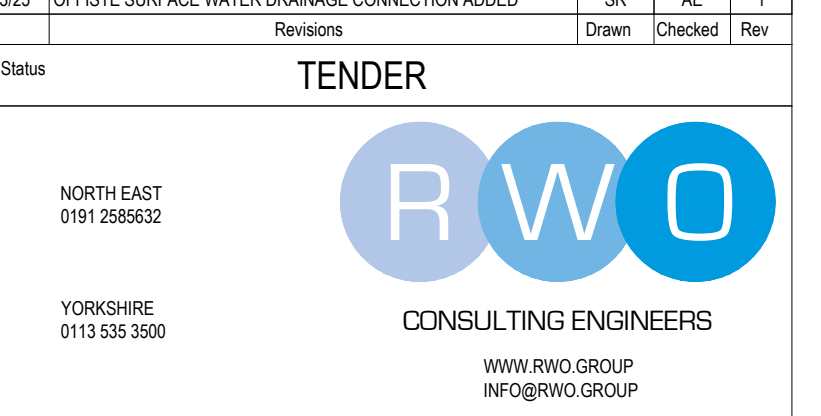
CLIENT

PROJECT

TITLE

NO NOT SCALE Scale @ 1:250 Drawn: N/A Checked: AE Date: 07/02/23

Job No 22087 **Draw No** D205 **Rev** 1



GLEESON HOMES

JACK TREES CLEATOR MOOR

PROPOSED DRAINAGE LAYOUT SHEET 2 OF 2