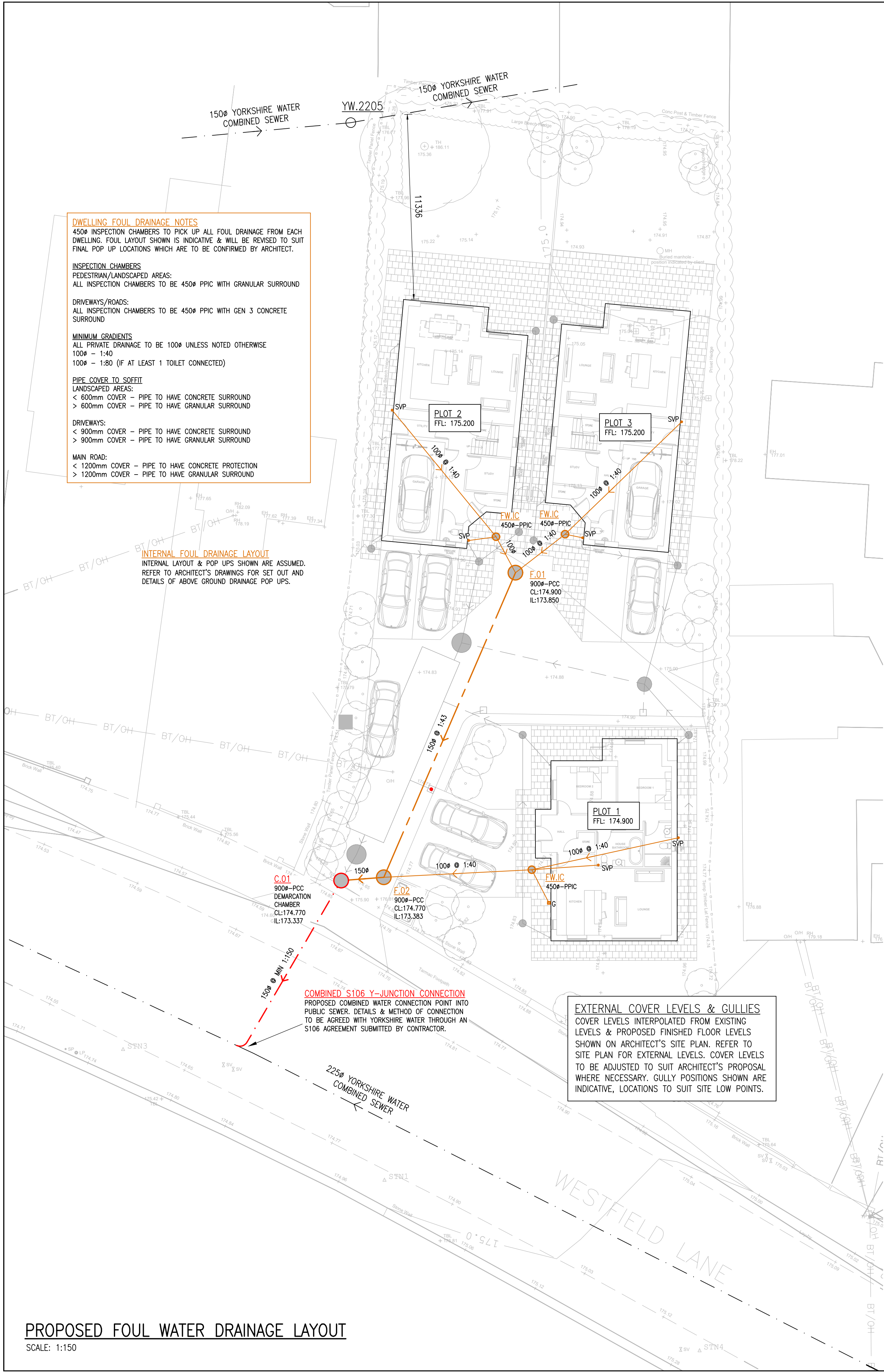




DWELLING FOUL DRAINAGE NOTES
450# INSPECTION CHAMBERS TO PICK UP ALL FOUL DRAINAGE FROM EACH DWELLING. FOUL LAYOUT SHOWN IS INDICATIVE & WILL BE REVISED TO SUIT FINAL POP UP LOCATIONS WHICH ARE TO BE CONFIRMED BY ARCHITECT.

INSPECTION CHAMBERS
PEDESTRIAN/LANDSCAPED AREAS:
ALL INSPECTION CHAMBERS TO BE 450# PPIC WITH GRANULAR SURROUND

DRIVEWAYS/ROADS:
ALL INSPECTION CHAMBERS TO BE 450# PPIC WITH GEN 3 CONCRETE SURROUND

MINIMUM GRADIENTS
ALL PRIVATE DRAINAGE TO BE 100# UNLESS NOTED OTHERWISE
100# - 1:40
100# - 1:80 (IF AT LEAST 1 TOILET CONNECTED)

PIPE COVER TO SOFFIT
LANDSCAPED AREAS:
< 600mm COVER - PIPE TO HAVE CONCRETE SURROUND
> 600mm COVER - PIPE TO HAVE GRANULAR SURROUND

DRIVEWAYS:
< 900mm COVER - PIPE TO HAVE CONCRETE SURROUND
> 900mm COVER - PIPE TO HAVE GRANULAR SURROUND

MAIN ROAD:
< 1200mm COVER - PIPE TO HAVE CONCRETE PROTECTION
> 1200mm COVER - PIPE TO HAVE GRANULAR SURROUND

INTERNAL FOUL DRAINAGE LAYOUT
INTERNAL LAYOUT & POP UPS SHOWN ARE ASSUMED. REFER TO ARCHITECT'S DRAWINGS FOR SET OUT AND DETAILS OF ABOVE GROUND DRAINAGE POP UPS.

COMBINED S106 Y-JUNCTION CONNECTION
PROPOSED COMBINED WATER CONNECTION POINT INTO PUBLIC SEWER. DETAILS & METHOD OF CONNECTION TO BE AGREED WITH YORKSHIRE WATER THROUGH AN S106 AGREEMENT SUBMITTED BY CONTRACTOR.

EXTERNAL COVER LEVELS & GULLIES
COVER LEVELS INTERPOLATED FROM EXISTING LEVELS & PROPOSED FINISHED FLOOR LEVELS SHOWN ON ARCHITECT'S SITE PLAN. REFER TO SITE PLAN FOR EXTERNAL LEVELS. COVER LEVELS TO BE ADJUSTED TO SUIT ARCHITECT'S PROPOSAL WHERE NECESSARY. GULLY POSITIONS SHOWN ARE INDICATIVE, LOCATIONS TO SUIT SITE LOW POINTS.

LEGEND.

- EXISTING FOUL SEWERS
- NEW BRANCH FOUL SEWERS
- NEW MAIN FOUL SEWERS
- CONCRETE ENCASED FW SEWER
- F.XX NEW FOUL MANHOLE
- EXISTING FOUL RISING MAIN
- FOUL RISING MAIN
- EXISTING COMBINED SEWERS
- NEW COMBINED SEWERS
- C.XX NEW COMBINED MANHOLE
- SVP SOIL VENT PIPE (RODDABLE ACCESS)
- g INTERNAL GULLY (TRAPPED & RODDABLE)
- SS STUB STACK
- BD VERTICAL BACK DROP
- DP TRAPPED & RODDABLE CHANNEL DRAIN
- RE RODDING EYE
- +++++ ABANDONED SEWER TO BE REMOVED

ADDITIONAL FOUL WATER DRAINAGE NOTES:

- LOCATION OF ALL EXISTING DRAINAGE TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF WORKS AS IT IS APPROXIMATELY TRANSLATED FROM SURVEY DRAWING.
- CONTRACTOR TO CHECK INVERT LEVELS AND DETAILS OF ALL OUTFALL LOCATIONS PRIOR TO COMMENCING DRAINAGE WORKS. ENGINEER TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- ALL DRAINAGE AT MANHOLES/ACCESS CHAMBERS TO CONNECT WITH SOFFITS LEVEL UNLESS OTHERWISE NOTED. MANHOLE INVERT LEVELS SHOWN ON PLAN ARE THAT OF LOWEST OUTGOING PIPE.
- ALL FOUL DRAINAGE TO BE 100mm DIA. UNLESS OTHERWISE NOTED.
- ALL INTERNAL 100mm DIA. STACKS TO BE LAID AT FALLS NOT SHALLOWER THAN 1:40 TO SUIT CONNECTION INTO MAIN NETWORK OR NOT SHALLOWER THAN 1:80 IF AT LEAST 1 WC IS CONNECTED.
- WHERE AN SVP/TOILET IS LOCATED AT THE HEAD OF A RUN, IT SHOULD CONNECT DIRECTLY TO THE INSPECTION CHAMBER MAIN CHANNEL RATHER THAN USING A BRANCH CONNECTION. WHERE MULTIPLE SVPS/TOILETS ARE PRESENT, THE STACK SERVING THE MOST TOILETS OR CARRYING THE HIGHEST FLOW SHOULD BE CONNECTED TO THE MAIN CHANNEL WHERE POSSIBLE.
- ALL FOUL BRANCH CONNECTIONS TO BE MADE USING OBLIQUE 45° CONNECTION IN THE DIRECTION OF FLOW OF THE MAIN LINE WHERE POSSIBLE.
- FOR INTERNAL FOUL CONNECTIONS WITHOUT A TOILET/SINK/UTILITY WHERE OBLIQUE CONNECTIONS ARE NOT POSSIBLE, 87.5° CURVED SQUARE BRANCH CONNECTIONS TO BE USED IN DIRECTION OF FLOW OF MAIN LINE.
- FOUL RODDING POINTS SHOULD BE PROVIDED, ABOVE SPILLOVER LEVEL OF CONNECTED APPLIANCES, IN DISCHARGE STACKS TO GIVE ACCESS TO ANY LENGTH OF PIPE WHICH CANNOT BE REACHED FROM ANY OTHER PART OF THE NETWORK.
- ALL DRAINAGE WITHIN 300mm OF UNDERSIDE OF STRUCTURAL SLAB TO HAVE FULL GEN 3 CONCRETE BED AND SURROUND.
- ALL INTERNAL MANHOLE & INSPECTION CHAMBERS TO HAVE SCREW DOWN DOUBLE SEAL ACCESS COVERS.
- ALL INTERNAL & EXTERNAL FOUL WATER INSPECTION CHAMBERS SITUATED IN AREAS WITHOUT VEHICULAR ACCESS TO BE TYPE 3 CHAMBERS WITH 150mm DOT TYPE 1 SURROUND UNLESS NOTED OTHERWISE.
- ALL EXTERNAL FOUL WATER INSPECTION CHAMBERS SITUATED IN AREAS WITH VEHICULAR ACCESS TO BE TYPE 3 CHAMBERS WITH GEN 3 CONCRETE SURROUND UNLESS NOTED OTHERWISE.
- ALL TYPE 3 INSPECTION CHAMBERS WHERE DEPTH TO INVERT OF CHAMBER IS > 1m SHALL HAVE COVER FRAME WITH ACCESS RESTRICTED TO 350mm DIA. OR 300x300mm SQUARE.
- ALL EXTERNAL FOUL WATER MANHOLES TO BE MIN. 1200mm DIA. WIDE WALL (125mm THICK) TYPE 2 PRECAST CONCRETE CHAMBERS UNLESS NOTED OTHERWISE.
- MANHOLE COVER LEVELS ARE SUBJECT TO CONFIRMATION OF FINAL EXTERNAL & INTERNAL LEVELS.
- THE LOAD CLASS OF ALL COVERS, GRATINGS, GULLIES, CHANNELS & FRAMES TO CHAMBERS TO SUIT THEIR LOCATION AS FOLLOWS (REFER TO MANHOLE SCHEDULE FOR CONFIRMATION):
 - A15 - INTERNAL LOCATIONS
 - B125 - EXTERNAL WITH PEDESTRIAN ACCESS ONLY
 - C250 - EXTERNAL LIGHTLY TRAFFICKED AREAS
 - D400 - MAIN ROADS/HIGHWAYS
 - E600 - HGV/LOADING BAY AREAS
- GRATINGS IN PEDESTRIAN AREAS TO HAVE HEEL SAFE ANTI-SLIP COVERS.
- TREE ROOT PROTECTION REQUIRED TO ALL DRAINAGE RUNS WITHIN 5m OF EXISTING OR PROPOSED TREES, DETAILS T.B.C BY LANDSCAPE ARCHITECT.
- ALL DRAINAGE & PUMP FIXTURES AND FITTINGS MUST BE COMPATIBLE WITH THE COMPOSITION OF EFFLUENT BEING CONVEYED.
- ALL PROPRIETARY ITEMS TO BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.
- REFERENCE SHOULD BE MADE TO ARCHITECT & M&E ENGINEERS DRAWINGS FOR ABOVE GROUND DRAINAGE DETAILS & SET-OUT.
- ALL EXISTING DRAINAGE THAT IS MADE REDUNDANT AS A RESULT OF THE WORKS TO BE GRUBBED UP AND REMOVED.
- THE LAYOUT OF PIPELINES, MANHOLES ETC. IS DESIGNED TO SUIT THE PERMANENT CASE. ADDITIONAL LOADS OVER & ABOVE THOSE DESIGNED FOR MAY ARISE DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL PROVIDE ANY NECESSARY TEMPORARY PROTECTION TO ENSURE THAT PIPELINES, MANHOLES ETC. ARE NOT DAMAGED DURING THE CONSTRUCTION PHASE.

NOTES

- DO NOT SCALE FROM THIS DRAWING, UTILISE ONLY NUMBERED DIMENSIONS.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS, NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- UNLESS NOTED OTHERWISE, THIS DRAWING IS FOR PLANNING APPROVAL.
- ALL DRAINAGE TO BE TO THE SATISFACTION OF THE LOCAL AUTHORITY BUILDING CONTROL AND MAIN DRAINAGE SECTIONS ON MATTERS INVOLVING PUBLIC SEWERS.
- ALL PIPEWORK, BENDS AND JUNCTIONS TO BE EXTRA STRENGTH VITRIFIED CLAY TO BS 65:1991 (SURFACE WATER ONLY) & BS EN 295, OR PVCu TO BS EN 1401-1. TO BE AGREED WITH RELEVANT AUTHORITY.
- INVERT LEVELS ON EXISTING DRAINS & OUTFALLS TO BE CHECKED PRIOR TO COMMENCEMENT OF WORKS.
- TRENCH WIDTHS GENERALLY-- AS SMALL AS PRACTICABLE BUT NOT LESS THAN PIPE DIAMETER +300mm OR LARGER IF SPECIFIED. TRENCH SIDES MUST BE VERTICAL FROM BOTTOM UP TO 300mm ABOVE CROWN OF PIPE.
- WHERE DRAINAGE PIPES HAVE LESS THAN 1.2m COVER IN TRAFFICKED AREAS AND LESS THAN 600mm UNDER LANDSCAPED AREAS PIPES SHALL HAVE A FULL CLASS 2 CONCRETE SURROUND. CONCRETE PROTECTION TO BE DISCONTINUED AT EACH PIPE JOINT WITH COMPRESSIBLE MATERIAL. ALL OTHER FLEXIBLE PIPES TO HAVE CLASS S GRANULAR BEDDING DETAIL UNLESS OTHERWISE NOTED. ALL OTHER RIGID PIPES TO HAVE CLASS B GRANULAR BEDDING DETAIL UNLESS OTHERWISE NOTED.
- GRANULAR BEDDING:
 - 10mm SINGLE SIZED COARSE AGGREGATE SHALL BE USED ON PIPES NOT EXCEEDING 140mm DIAMETER.
 - 2-14mm WELL GRADED COARSE AGGREGATE MAY BE USED ON PIPES EXCEEDING 140mm BUT NOT EXCEEDING 400mm DIAMETER.
 - 4-20mm WELL GRADED COARSE AGGREGATE MAY BE USED ON PIPES EXCEEDING 400mm DIAMETER.
 - THE DEPTH OF GRANULAR BEDDING UNDER THE PIPES SHALL BE X/6 OR 150mm, WHICHEVER IS GREATER, WHERE X=EXTERNAL DIAMETER OF THE PIPE.
- ADOPTABLE PUBLIC SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH SEWAGE SECTOR GUIDANCE APPENDIX C.
- ALL PRIVATE DRAINAGE WORKS SHALL BE IN ACCORDANCE WITH "THE BUILDING REGULATIONS APPROVED DOCUMENT H" AND BRITISH STANDARD BS EN 752.
- ALL NEW DRAINAGE TO BE TESTED PRIOR TO BACKFILL OF THE TRENCHES & PRIOR TO HANDOVER TO THE SATISFACTION OF THE BUILDING CONTROL INSPECTOR.
- THE CONTRACTOR MUST LIAISE WITH THE LOCAL AUTHORITY MAIN DRAINAGE SECTION PRIOR TO COMMENCEMENT OF WORK ON PUBLIC DRAINAGE.
- TRENCH BACKFILL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 250mm ONCE 300mm COVER HAS BEEN PROVIDED TO THE TOP OF PIPE.
- THE CONTRACTOR SHALL ALLOW IN HIS RATES FOR MAINTAINING FLOW IN PUBLIC SEWERS AT ALL TIMES DURING DIVERSION WORKS INCLUDING TEMPORARY PUMPING AND ALSO KEEPING EXCAVATIONS FREE FROM GROUNDWATER INCLUDING PUMPING AND FORMATION OF TEMPORARY SUMPS.
- THE CONTRACTOR SHALL MAKE PROVISIONS FOR AND LIAISE WITH ALL RELEVANT STATUTORY BODIES FOR THE MANAGEMENT OF TRAFFIC WHILE CARRYING OUT WORKS IN THE PUBLIC HIGHWAY.
- THE CONTRACTOR IS TO SATISFY HIMSELF TO THE POSITION AND AND DEPTH OF THE PUBLIC UTILITIES AND ALLOW FOR TEMPORARY SUPPORT, PROTECTION AND DIVERSION WORKS AS NECESSARY. THE CONTRACTOR SHALL ALSO INCLUDE FOR ANY TRIAL PIT EXCAVATIONS NECESSARY.
- BACKFILL TO EXCAVATIONS IN PUBLIC HIGHWAYS TO BE WELL COMPACTED GRANULAR TYPE 1 TO CL.803 OF THE DTP SPECIFICATION FOR HIGHWAY WORKS 2009.
- ALL EXTERNAL GULLIES TO BE 375mm DIA. MINIMUM, PRECAST CONCRETE, HEAVY DUTY, KITE MARKED & ANTI-THEFT.

PROPOSED FOUL WATER DRAINAGE LAYOUT

SCALE: 1:150

PROJECT 64 WESTFIELD LANE, CLECKHEATON, BD19 6DR				
TITLE PROPOSED FOUL DRAINAGE LAYOUT				
PROJECT No. WA-1079	DRAWING No. D-01	AMENDMENT -	DATE DRAWN MAY '26	DRAWN BY MH
Amendment Note				

49 Savile Park Road
Halifax, Hx1 2ex
info@wadesignconsultants.co.uk
0788683779