



DRAINAGE NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATION.
- NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING SHALL BE ALLOWED UNLESS PRIOR WRITTEN CONSENT HAS BEEN OBTAINED.
- OR TYPICAL DRAINAGE DETAILS REFER TO MOUCHEL DRAWING 1065730/ST/101
- ALL WORK TO COMPLY WITH THE RELEVANT CLAUSES OF B.S. EN 752: 1998 BUILDING DRAINAGE, THE SEWERS FOR ADOPTION CURRENT EDITION & PART H OF THE BUILDING REGULATIONS.
- PRIOR TO COMMENCEMENT OF THE WORKS THE CONTRACTOR SHALL:-
 - CONFIRM THE LOCATION AND LEVEL OF THE PROPOSED DRAINAGE OUTFALLS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
 - CARRY OUT AN INTERNAL SURVEY OF THE OUTFALL CHAMBERS AND PROVIDE DETAILED DIMENSIONED SKETCHES OF EACH FOR THE ENGINEERS CONSIDERATION.
- ALL PIPES BUILT INTO THE MANHOLE INVERTS SHALL BE INSTALLED WITH SOFFITS LEVEL UNLESS SHOWN OTHERWISE.
- CONNECTIONS TO FOUL TERMINAL FITTINGS SHALL BE IN 100mm NOMINAL BORE PIPE.
- ALL MANHOLES AND CONNECTIONS PASSING THROUGH WALLS TO BE FITTED WITH ROCKER PIPES.
- WHERE PIPES PASS THROUGH WALLS, REINFORCED CONCRETE LINTELS TO BE PROVIDED ABOVE PIPE TO FULL WIDTH OF WALL PROVIDING MIN. 50mm CLEARANCE ALL ROUND. MIN. BEARING OF LINTEL TO BE 150mm. SEAL WALL WITH RIGID SHEET EITHER SIDE AND INFILL VOIDS WITH COMPRESSIBLE SEALANT.
- COVER LEVELS SHOWN ARE APPROXIMATE AND SHALL BE ADJUSTED ON SITE BY THE CONTRACTOR TO SUIT THE FINAL LEVELS. THE CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION OF THE FINISHED COVER AND INVERT LEVELS OF ALL MANHOLES.
- THE CONTRACTOR SHALL CONTROL ACCURATE LINE AND LEVEL OF PIPE LAYING BY USE OF AN OPTICAL LASER.
- THE CONTRACTOR SHALL PROTECT THE PIPELINE FROM TEMPORARY CONSTRUCTION LOADS WHICH MAY BE IN EXCESS OF THE SERVICE LOADS.
- PIPEWORK AND PIPE BEDDING SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS EXCEPT WHERE NOTED OTHERWISE:

CLAYWARE PIPES AND FITTINGS TO BS EN 295
HEP WORTH SUPERSLEEVE ON BEDDING CLASS AS STATED IN THE SPECIFICATION
- PIPEWORK WITH LESS THAN 600mm COVER FROM FINISHED LEVEL, IN AREAS OF VEHICULAR LOADING, SHALL BE PROTECTED WITH A 150mm C20 CONCRETE SURROUND. FLEXIBLE JOINTS SHALL BE MAINTAINED AT EACH PIPE JOINT BY THE USE OF COMPRESSIVE SHEET CUT TO FIT THE PIPE PROFILE.
- TRENCHES IN AREAS RECEIVING VEHICULAR LOADING SHALL BE BACKFILLED WITH 6F2 GRANULAR FILL.
- TRENCHES WITHIN 1m OF LOAD BEARING WALLS AND BELOW LEVEL OF FOOTING ARE TO BE FILLED WITH CONCRETE AT LEAST TO THE LEVEL OF THE UNDERSIDE OF THE FOUNDATION. WHERE THE DISTANCE IS MORE THAN 1m FROM THE WALL, THE CONCRETE FILL SHOULD BE TO A LEVEL BELOW THE UNDERSIDE OF THE FOUNDATION EQUAL TO THE DISTANCE FROM THE WALL TO THE NEAR SIDE OF THE TRENCH LESS 150mm.
- SOFT SPOTS IN THE TRENCH FORMATION SHALL BE REMOVED AND REPLACED WITH GRANULAR BEDDING UNLESS INSTRUCTED OTHERWISE.
- UNLESS NOTED OTHERWISE MANHOLE COVERS, CHANNEL GRATINGS AND ROAD GRATINGS SHALL BE DUCTILE IRON TO BS EN 124 BLACK COATED AS FOLLOWS:-

HIGHWAYS	CLASS D400
HARD SURFACING AREAS	CLASS D400
LANDSCAPED AREAS	CLASS B125
- ALL EXTERNAL MANHOLE COVERS IN HARD LANDSCAPED AREAS TO BE RECESSED TO RECEIVE LANDSCAPE FINISHES. CONTRACTOR TO LIAISE WITH LANDSCAPE ARCHITECT.
- INTERNAL MANHOLE COVERS TO BE DOUBLE SEALED SCREWED DOWN COVERS AND SHALL HAVE A BADGE TO INDICATE FOUL OR STORM WATER.
- THE CONTRACTOR SHALL REGULATE EXISTING COVERS AND FRAMES TO THE PROPOSED LEVELS INDICATED.
- TWO SETS OF MANHOLE LIFTING KEYS SHALL BE HANDED OVER TO THE CLIENT ON COMPLETION OF THE WORKS.
- LATERAL CONNECTIONS IN BETWEEN MANHOLE RUNS SHALL BE FORMED BY USING PURPOSE MADE JUNCTION FITTINGS. BEND FITTINGS SHALL BE PROVIDED WHERE APPROPRIATE TO DIRECT THE FLOW INTO MAIN RUNS.
- THE CONTRACTOR SHALL SERVE ALL STATUTORY NOTICES AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY AND STATUTORY UNDERTAKER FOR WORKS IN EXISTING PUBLIC HIGHWAYS AND FOR CONNECTIONS TO PUBLIC SEWERS.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LIAISE WITH THE HIGHWAY AND SEWERAGE AUTHORITIES FOR APPROVALS, INTERIM INSPECTION, SNAGGING AND FINAL INSPECTIONS OF THEIR WORK.
- THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING STATUTORY UNDERTAKERS APPARATUS AND SERVICE CONNECTIONS ADJACENT TO AND CROSSING THE WORKS BY TRIAL PITS PRIOR TO COMMENCING MACHINE DIG.
- AT THE CONCLUSION OF THE WORKS THE CONTRACTOR SHALL PROVIDE A MARKED UP DRAWING TO RECORD ANY AS-BUILT VARIATIONS NOT SHOWN ON THE DRAWINGS.

LEGEND

SW	SW	EXISTING SURFACE WATER DRAINAGE
FW	FW	EXISTING FOUL DRAINAGE
FW	FW	EXISTING COMBINED DRAINAGE
SW	SW	EXISTING SURFACE WATER DRAINAGE TO BE REMOVED
FW	FW	EXISTING FOUL DRAINAGE TO BE REMOVED
R.E. (ROOFTOP EYE)	B.D. (BACK DROP)	NEW SURFACE WATER DRAINAGE
NEW MANHOLE	B.D. (BACK DROP)	NEW FOUL DRAINAGE
		NEW COMBINED DRAINAGE
RWP		RAINWATER DOWNPIPE
		ACCESS FOR ROOFING THE BELOW-GROUND BRANCH DRAIN IS TO BE PROVIDED AT ALL RWP LOCATIONS
		CONNECTION TO ABOVE-GROUND FOUL SYSTEM (REFER TO ARCHITECT / SERVICES CONSULTANT FOR SETTING OUT AND TYPE OF APPLIANCE / FITTING. ACCESS FOR ROOFING OF THE BELOW-GROUND DRAIN RUN IS TO BE PROVIDED AT ALL POP-UP LOCATIONS)
G 25.500		G = NEW ROAD GULLY WITH COVER LEVEL
EX. G*		EX. G* = EXISTING GULLY TO BE RETAINED. CONTRACTOR TO ALLOW FOR ADJUSTING COVER LEVEL TO SUIT NEW PRESENT LEVEL.

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A	Issued for Planning Approval	PB 12/04/16	NA 12/04/16	NA 12/04/16

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