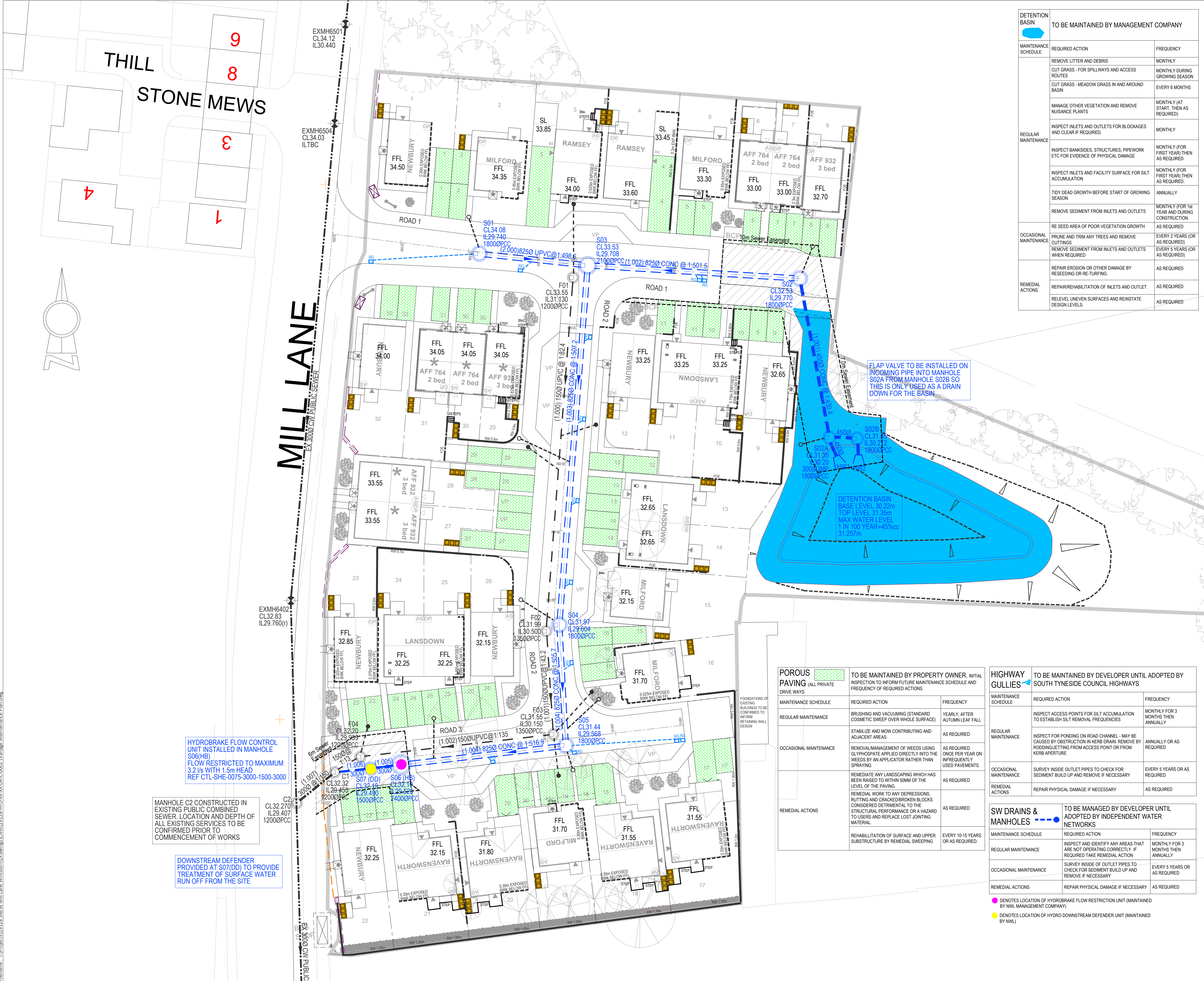




HYDROBRAKE FLOW CONTROL UNIT INSTALLED IN MANHOLE S06(HB) FLOW RESTRICTED TO MAXIMUM 3.2 l/s WITH 1.5m HEAD REF CTL-SHE-0075-3000-1500-3000

MANHOLE C2 CONSTRUCTED IN EXISTING PUBLIC COMBINED SEWER. LOCATION AND DEPTH OF ALL EXISTING SERVICES TO BE CONFIRMED PRIOR TO COMMENCEMENT OF WORKS

DOWNSTREAM DEFENDER PROVIDED AT S07(DD) TO PROVIDE TREATMENT OF SURFACE WATER RUN OFF FROM THE SITE

MAINTENANCE SCHEDULE	REQUIRED ACTION	FREQUENCY
REGULAR MAINTENANCE	BRUSHING AND VACUUMING (STANDARD COSMETIC SWEEP OVER WHOLE SURFACE)	YEARLY, AFTER AUTUMN LEAF FALL
OCCASIONAL MAINTENANCE	REMOVAL/MANAGEMENT OF WEEDS USING GLYPHOSATE APPLIED DIRECTLY INTO THE WEEDS BY AN APPLICATOR RATHER THAN SPRAYING	AS REQUIRED, ONCE PER YEAR ON INFREQUENTLY USED PAVEMENTS.
REMEDIAL ACTIONS	REHABILITATION OF SURFACE AND UPPER SUBSTRUCTURE BY REMEDIAL SWEEPING	EVERY 10-15 YEARS OR AS REQUIRED.

MAINTENANCE SCHEDULE	REQUIRED ACTION	FREQUENCY
REGULAR MAINTENANCE	INSPECT ACCESS POINTS FOR SILT ACCUMULATION TO ESTABLISH SILT REMOVAL FREQUENCIES	MONTHLY FOR 3 MONTHS THEN ANNUALLY
OCCASIONAL MAINTENANCE	INSPECT FOR PONDING ON ROAD CHANNEL - MAY BE CAUSED BY OBSTRUCTION IN KERB DRAIN. REMOVE BY RODDING/JETTING FROM ACCESS POINT OR FROM KERB APERTURE	ANNUALLY OR AS REQUIRED
REMEDIAL ACTIONS	SURVEY INSIDE OUTLET PIPES TO CHECK FOR SEDIMENT BUILD UP AND REMOVE IF NECESSARY	EVERY 5 YEARS OR AS REQUIRED

MAINTENANCE SCHEDULE	REQUIRED ACTION	FREQUENCY
REGULAR MAINTENANCE	INSPECT AND IDENTIFY ANY AREAS THAT ARE NOT OPERATING CORRECTLY. IF REQUIRED TAKE REMEDIAL ACTION	MONTHLY FOR 3 MONTHS THEN ANNUALLY
OCCASIONAL MAINTENANCE	SURVEY INSIDE OF OUTLET PIPES TO CHECK FOR SEDIMENT BUILD UP AND REMOVE IF NECESSARY	EVERY 5 YEARS OR AS REQUIRED
REMEDIAL ACTIONS	REPAIR PHYSICAL DAMAGE IF NECESSARY	AS REQUIRED

- DENOTES LOCATION OF HYDROBRAKE FLOW RESTRICTION UNIT (MAINTAINED BY NWL MANAGEMENT COMPANY)
- DENOTES LOCATION OF HYDRO DOWNSTREAM DEFENDER UNIT (MAINTAINED BY NWL)

DETENTION BASIN	TO BE MAINTAINED BY MANAGEMENT COMPANY	
MAINTENANCE SCHEDULE	REQUIRED ACTION	FREQUENCY
REGULAR MAINTENANCE	REMOVE LITTER AND DEBRIS	MONTHLY
	CUT GRASS - FOR SPILLWAYS AND ACCESS ROUTES	MONTHLY DURING GROWING SEASON
	CUT GRASS - MEADOW GRASS IN AND AROUND BASIN	EVERY 6 MONTHS
	MANAGE OTHER VEGETATION AND REMOVE NUISANCE PLANTS	MONTHLY (AT START, THEN AS REQUIRED)
	INSPECT INLETS AND OUTLETS FOR BLOCKAGES AND CLEAR IF REQUIRED.	MONTHLY
	INSPECT BANKSIDES, STRUCTURES, PIPEWORK ETC FOR EVIDENCE OF PHYSICAL DAMAGE	MONTHLY (FOR FIRST YEAR) THEN AS REQUIRED.
OCCASIONAL MAINTENANCE	INSPECT INLETS AND FACILITY SURFACE FOR SILT ACCUMULATION	MONTHLY (FOR FIRST YEAR) THEN AS REQUIRED.
	TIDY DEAD GROWTH BEFORE START OF GROWING SEASON	ANNUALLY
	REMOVE SEDIMENT FROM INLETS AND OUTLETS	MONTHLY (FOR 1st YEAR AND DURING CONSTRUCTION.
REMEDIAL ACTIONS	RE SEED AREA OF POOR VEGETATION GROWTH	AS REQUIRED
	PRUNE AND TRIM ANY TREES AND REMOVE CUTTINGS	EVERY 2 YEARS (OR AS REQUIRED)
	REMOVE SEDIMENT FROM INLETS AND OUTLETS WHEN REQUIRED	EVERY 5 YEARS (OR AS REQUIRED)

- NOTES
- ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT WATER SERVICES ASSOCIATION 'SEWERS FOR ADOPTION' AND ADOPTING WATER AUTHORITY/SEWERAGE AGENCY REQUIREMENTS AND SPECIFICATIONS.
 - ALL PRIVATE DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BUILDING REGULATIONS 2002 EDITION.
 - CONTRACTOR TO ESTABLISH POSITION SIZE AND DEPTH OF ALL EXISTING SEWERS AND SERVICES PRIOR TO COMMENCEMENT ON SITE.
 - THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT, AND TEMPORARY AND PERMANENT DIVERSION WORKS, AS NECESSARY TO ALL EXISTING SERVICES.
 - THE CONTRACTOR SHALL ALLOW FOR ALL TRAFFIC MANAGEMENT IN CONNECTION WITH ROAD AND SEWER WORKS.
 - THE CONTRACTOR SHALL ALLOW FOR KEEPING SEWER TRENCHES AND EXCAVATIONS AS DRY AS PRACTICABLE BY PUMPING FROM TEMPORARY SUMPS AND DEWATERING AS APPROPRIATE. THE POINT AND METHOD OF DISCHARGE TO BE AGREED WITH THE DRAINAGE AUTHORITY.
 - PIPES UP TO AND INCLUDING 300mm TO BE UNPLASTICISED PVC. PIPES 375mm AND GREATER TO BE CONCRETE CLASS H.
 - ALL PIPEWORK TO BE 100mm DIAMETER UNLESS NOTED OTHERWISE.
 - INSITU AND PRECAST CONCRETE UNITS SHALL HAVE SULPHATE RESISTING PORTLAND CEMENT TO BS 4027, UNLESS AGREED OTHERWISE WITH THE ADOPTING AUTHORITY.
 - PRECAST CONCRETE PRODUCTS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS 5911 AND BE KITEMARKED. CONCRETE PIPES TO BE CLASS H UNLESS NOTED OTHERWISE.
 - MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN124. HAVE MINIMUM 675 x 675 CLEAR OPENINGS WITH 150 DEEP FRAMES UNLESS OTHERWISE SPECIFIED. MANHOLE COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITHOUT CUSHION INSERTS AND BE KITEMARKED. LOAD CLASS D400 IN VEHICULAR TRAFFICKED AREAS AND LOAD CLASS B125 IN FOOTWAYS AND PEDESTRIAN AREAS.
 - GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN124 AND BE OF A NON-ROCKING DESIGN WITH CAPTIVE HINGE ACCESS AND BE KITEMARKED. LOAD CLASS D400 FOR ROADS REGULARLY CARRYING FAST MOVING HEAVY VEHICLES. CLASS C250 TO BE USED IN LESSER TRAFFICKED AREAS eg. ESTATE ROADS, CUL-DE-SACS, RESIDENTIAL CAR PARKING AREAS ETC.
 - CLASS 2 BEDDING DETAIL SHALL BE PROVIDED WHERE COVER TO THE PIPE BARREL IS LESS THAN 1.2M IN VEHICULAR TRAFFICKED AREAS AND 0.9M ELSEWHERE. TO ALL ROAD GULLY CONNECTIONS AND WITHIN AREAS OF DEEP ROOTING VEGETATION.
 - WHERE CLASS 2 TRENCH BEDDING DETAIL IS USED, THE CONCRETE BED AND SURROUND SHALL BE DISCONTINUED AT EACH PIPE JOINT OVER THE FULL CROSS SECTION BY MEANS OF A SHAPED COMPRESSIBLE FILLER.
 - SELECTED BACKFILL MATERIAL SHALL CONSIST OF UNIFORM MATERIAL FREE FROM STONES LARGER THAN 40mm, CLAY LUMPS LARGER THAN 15mm, TREE ROOTS, ORGANIC MATTER AND FROZEN SOIL. SELECTED BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING 225mm, EACH LAYER COMPACTED TO FORM A STABLE TRENCH BACKFILL.
 - GENERAL BACKFILL MATERIAL TO BE FREE FROM STONES LARGER THAN 40mm. GENERAL BACKFILL MATERIAL IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm THICKNESS AND EACH LAYER COMPACTED BY HAND. NO MECHANICAL COMPACTION OF FILL MATERIAL SHALL BE PERMITTED WITHIN 300mm ABOVE THE CROWN/BARREL OF THE PIPE.
 - BACKFILLING AND REINSTATEMENT TO TRENCHES IN PUBLIC HIGHWAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE ADOPTING AUTHORITY, OR, IN THE ABSENCE OF SUCH, IN ACCORDANCE WITH THE REQUIREMENTS OF THE STREET WORKS REGULATIONS 1992 AND RELEVANT PROVISIONS OF H.A.U.C. 'SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS' JUNE 1992, BOTH UNDER SECTION 71 OF THE NEW ROADS AND STREET WORKS ACT 1991.
 - BACKFILL TO DRAINAGE TRENCHES IN HARD PAVED AREAS SHALL BE G.S.B. TYPE 1.
 - ALL RW DOWNCOMERS TO DISCHARGE TO TRAPPED GULLIES
 - ALL ROAD GULLIES ARE TO BE TRAPPED GULLIES
 - ALL GULLY LEADS TO BE 150mm DIAMETER.
 - ALL REDUNDANT EXISTING DRAINAGE TO BE GRUBBED UP OR GROUTED. ANY EXISTING LIVE DRAINAGE SHOULD BE REPORTED TO THE ENGINEER AND RECONNECTED.
 - ALL ROAD GULLIES & LEADS TO BE CLEARED OF DEBRIS UPON COMPLETION OF WORKS.
 - ANY EXISTING DRAINAGE WHICH BECOMES UNDER TRAFFICKED AREAS IN THE NEW SCHEME SHOULD BE SUBJECT TO THE FOLLOWING REMEDIAL PROVISIONS: WHERE DEPTH OF COVER IS LESS THAN 1200MM, THE EXISTING PIPEWORK SHALL BE EXPOSED & SURROUNDED WITH 150MM CONCRETE AS CLASS 2" BEDDING. WHERE THE EXISTING MANHOLE COVER & FRAME IS NOT AS MANHOLE DETAIL A OR B, OR TO BS487 GRADE A, OR EN124 CLASS D, THEN IT SHOULD BE CHANGED FOR SUCH.
 - THE CONTRACTOR MUST ENSURE THAT ANY OF THE EXISTING DRAINAGE WHICH IS LIVE IS KEPT CLEAR OF DEBRIS AND SHOULD ALLOW FOR JETTING THROUGH THE NEW & EXISTING DRAINAGE UPON COMPLETION.
 - 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 BREATHING APPARATUS AS REQUIRED.
 - CONTRACTOR TO APPLY FOR SEWER PERMITS AND ROAD OPENING PERMITS AS NECESSARY FROM THE APPROPRIATE AUTHORITIES, PRIOR TO COMMENCING WORKS.

SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES

P06	ROAD 1 AND PLOTS 17-21	19/01/24	MP	-- --
P05	LAYOUT UPDATED SUB STN AMENDED	12/01/24	MP	-- --
P04	LAYOUT UPDATED, CL, S07 & S06	20/12/23	MP	-- --
P03	LAYOUT UPDATED	24/11/23	MP	-- --
P02	LAYOUT UPDATED	28/09/23	MP	-- --
P01	INITIAL ISSUE	15/09/23	MP	-- --
Rev.	Revision Notes	Date	Drawn By	Checked Approved

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PROJECT
MILL LANE
WHITBURN

TITLE
PROPOSED DRAINAGE
MAINTENANCE PLAN

HYDROCK PROJECT NO.	SCALE @ A1	
C-29128	1:250	
STATUS DESCRIPTION	SUITABLE FOR INFORMATION	STATUS S2
DRAWING NO.	29128-HYD-XX-XX-DR-C-0002	REVISION P06