

- ALL RWP/SVP/SS CONNECTIONS ARE TO BE 1000 UNLESS STATED OTHERWISE
- ALL SS/SVP'S ARE TO HAVE RODDABLE ACCESS FROM ABOVE GROUND
- ALL AC'S ARE TO BE 600Ø & MINIMUM 750mm DEEP UNLESS NOTED OTHERWISE
- ARCHITECT TO CONFIRM IF MANHOLE COVERS IN PAVED AREAS ARE TO BE RECESSED TO ACCEPT SURFACE FINISHES
- ALL 'POP-UP' SETTING OUT IS PROVIDED BY THE ARCHITECT
- PRELIMINARY SUBJECT TO CONFIRMATION OF UNITED UTILITIES AND LLFA ACCEPTANCE OF DISCHARGE CONNECTION LOCATIONS AND FLOW RATES

- SITE COMMENTS**
- 01** STEEP SLOPES SO LIKELY BACK OF RETAINING WALL DRAINAGE REQUIRED AND SCHOOL IDENTIFIED DRAINAGE ISSUES IN THIS AREA SO MAKE ALLOWANCES FOR ADDITIONAL DRAINAGE IN THIS SLOPED AREA
 - 02** ALLOWANCE FOR DITCH AT BASE OF SLOPE AT LOWER LEVEL THAN ADJACENT CAR PARK/PROPOSED DEVELOPMENT LEVELS TO PREVENT SURFACE WATER RUNOFF FROM SLOPE ENDOUCHING UPON ADJACENT DEVELOPMENT. ALLOWANCE FOR PERFORATED UNDERDRAIN IN DITCH
 - 03** EXISTING SPORTS HALL BUILDING, MUJGA AND TENNIS COURTS TO REMAIN. CONFIRMATION REQUIRED IF EXISTING DRAINAGE IS TO REMAIN OR IF THESE AREAS ARE TO BE DEMOLISHED. ALLOWANCE TO BE MADE TO ENSURE EXISTING SCHOOL BUILDING CAN REMAIN IN USE DURING DEMOLITION OF EXISTING SCHOOL BUILDING PRIVATE DRAINAGE WITHIN PROPOSED SITE BOUNDARY CAN BE ABANDONED AND GRUBBED UP.
 - 04** ASSUMED EXISTING FOUL PIPELINE RUNNING NORTH TO SOUTH THROUGH GRASSED AREA CAN BE RE-USED. ALLOWANCE TO BE MADE TO REPAIR/REPLACE EXISTING FOUL PIPELINE.
 - 05** ASSUMED EXISTING SPORTS PITCH DRAINAGE IT TO REMAIN AS PER EXISTING SCENARIO
 - 06** ALLOWANCE TO BE MADE FOR DIVERSION OF EXISTING FOUL AND SURFACE WATER DRAINAGE AROUND PROPOSED SCHOOL BUILDING. THIS IS TO ENSURE EXISTING SCHOOL BUILDING CAN REMAIN IN USE DURING CONSTRUCTION OF NEW BUILDING. ONCE EXISTING SCHOOL BUILDING IS DEMOLISHED ALL EXISTING PRIVATE DRAINAGE CAN BE ABANDONED AND GRUBBED UP.

- ASSUMED THAT ALL EXISTING DRAINAGE SERVING THE LANDSCAPED AREAS TO THE NORTH OF THE SITE TO REMAIN AND CONTINUE TO DISCHARGE AS PER THE EXISTING SCENARIO. ENVISAGED THAT ANY PROPOSED BACK OF RETAINING WALL DRAINAGE/LAND DRAINAGE THAT IS REQUIRED IN THIS AREA CAN DRAIN INTO THE EXISTING CULVERTED WATERCOURSE AND WILL THEREFORE NOT BE TAKEN THROUGH THE PROPOSED SURFACE WATER DRAINAGE NETWORK.
- PROPOSED CLASS 1 FULL RETENTION SEPARATOR. REFER TO AJP DRAWING SRP1051-AJP-22-05-C-1304 FOR DETAILS.
- AREA OF PERMEABLE MACADAM. REFER TO AJP DRAWING SRP1051-AJP-22-05-C-1304 FOR DETAILS.
- LOCATION AND DEPTHS OF ALL EXISTING SERVICES TO BE IDENTIFIED AND CONFIRMED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY POTENTIAL CLASHES BETWEEN EXISTING SERVICES AND PROPOSED DRAINAGE TO BE HIGH LIFTED TO ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- PROPOSED HYDROBRAKE CHAMBER BY HYDRO INTERNATIONAL OR SIMILAR APPROVED TO RESTRICT DISCHARGE TO REQUIRED RATE. DESIGN HEAD: 1.8 m. DESIGN HEAD: 0.4m.
- PROPOSED SURFACE WATER CONNECTION TO EXISTING PRIVATE SURFACE WATER MANHOLE. GRAVITY CONNECTION SUBJECT TO CONFIRMATION OF LEVEL OF EXISTING PRIVATE SEWER. PROPOSED CONNECTION IS ALSO SUBJECT TO DETAILED DRAINAGE DESIGN AND LLFA APPROVALS.
- CCTV SURVEYS HAVE CONFIRMED THAT THE EXISTING OUTFALL PIPELINE DISCHARGES INTO THE TRIBUTARY OF LANGWOOD BROOK.
- EXISTING SURFACE WATER DRAIN AND CULVERTED WATERCOURSE TO REMAIN AS PER EXISTING AND IS THEREFORE TO CONTINUE TO DRAIN THE EXISTING SPORTS PITCH AREA.

- CCTV SURVEYS HAVE INDICATED THAT THIS EXISTING SURFACE WATER DRAIN IS LIKELY TO DRAIN AREAS OUTSIDE OF THE SITE BOUNDARY AND THEREFORE THE EXISTING DRAIN IS TO REMAIN AND BE DIVERTED AROUND PROPOSED WORKS.
- EXISTING PRIVATE DRAINAGE TO REMAIN IN PLACE AND IN USE UNTIL DEMOLITION OF EXISTING SCHOOL BUILDING. ALLOWANCE TO BE MADE TO TEMPORARILY DIVERT EXISTING FOUL AND SURFACE WATER DRAINAGE AROUND PROPOSED NEW SCHOOL BUILDING TO ENSURE EXISTING SCHOOL BUILDING CAN REMAIN IN USE. AFTER DEMOLITION OF EXISTING SCHOOL BUILDING PRIVATE DRAINAGE WITHIN PROPOSED SITE BOUNDARY CAN BE ABANDONED AND GRUBBED UP.
- CCTV SURVEYS HAVE INDICATED THAT THE EXISTING CULVERTED WATERCOURSE DOES NOT SERVE AREAS OUTSIDE OF PROPOSED SITE BOUNDARY. DESPITE THIS, THE EXISTING CULVERTED WATERCOURSE IS TO REMAIN AS PER THE EXISTING SCENARIO AS IT IS LIKELY TO DRAIN SOME LANDSCAPED AREAS FROM WITHIN THE EXISTING SITE BOUNDARY.
- PROPOSED DIVERSION OF EXISTING CULVERTED WATERCOURSE AROUND PROPOSED WORKS.
- PROPOSED FOUL WATER DIVERSION REQUIRED TO ENSURE EXISTING SCHOOL BUILDING CAN REMAIN IN USE WHILE NEW BUILDING IS BEING CONSTRUCTED.
- PROPOSED SURFACE WATER DIVERSION REQUIRED TO ENSURE EXISTING SCHOOL BUILDING CAN REMAIN IN USE WHILE NEW BUILDING IS BEING CONSTRUCTED.
- PROPOSED FOUL WATER CONNECTION TO EXISTING PRIVATE FOUL WATER MANHOLE. GRAVITY CONNECTION SUBJECT TO CONFIRMATION OF LEVEL OF EXISTING PRIVATE SEWER. PROPOSED CONNECTION IS ALSO SUBJECT TO DETAILED DRAINAGE DESIGN AND LLFA APPROVALS.
- CCTV SURVEYS HAVE CONFIRMED THAT THE EXISTING FOUL OUTFALL PIPELINE DISCHARGES INTO THE ADJACENT PUBLIC COMBINED WATER SEWER.
- ASSUMED EXISTING PITCH DRAINAGE TO REMAIN.
- CCTV SURVEYS HAVE CONFIRMED THAT THE EXISTING OUTFALL PIPELINE DISCHARGES INTO THE TRIBUTARY OF LANGWOOD BROOK.
- EXISTING SURFACE WATER DRAIN AND CULVERTED WATERCOURSE TO REMAIN AS PER EXISTING AND IS THEREFORE TO CONTINUE TO DRAIN THE EXISTING SPORTS PITCH AREA.



- GENERAL NOTES**
- SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
 - ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION AND UNITED UTILITIES DETAILS & GUIDELINES.
 - THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPTABLE HIGHWAYS SHALL BE 150mm.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARD TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE RATES SHALL INCLUDE FOR HAND DIG AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CDM REGULATIONS AT ALL TIMES.
 - THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1.0m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES.
 - EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES.
 - ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES.
 - ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS).
 - ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A., NHBC OR THE NETWORK OPERATOR AS APPLICABLE.
 - WHERE 'ULTRA RIP' (UPVC) PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION.
 - A CLASS 3 BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1M OF HIGHWAY SHALL AS DIRECTED BY THE HIGHWAY AUTHORITY BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL. 4.3.4.
 - SLAB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE.
 - ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED CLAY UNLESS NOTED OTHERWISE.
 - ALL MANHOLE COVERS TO BE RECESSED TO ACCEPT FINISH AS DETAILED BY LANDSCAPE ARCHITECT.
 - SLOW REST BENDS TO BE USED IN ALL LOCATIONS MADE UP FROM 2No. 45 DEG BENDS (600mm TO INVERT FROM FL).
 - MANHOLE POSITIONS AND ACCESS COVERS TO BE ACCURATELY SET-OUT BY LANDSCAPE ARCHITECT TO SUIT EXTERNAL FINISHES.
 - ALL DRAINS CAST THROUGH FOUNDATIONS TO HAVE ROCKER PIPES ON BOTH SIDES OF FOUNDATION.
 - ALL POP UP POSITIONS TO BE CONFIRMED SET OUT DIMENSIONS TO BE AGREED & PROVIDED BY OTHERS.
 - ALL DISCHARGE RATES TO BE CONFIRMED BY M&E DESIGNER.
 - ALL SURFACE WATER COLLECTION FEATURES TO BE CONFIRMED BY THE LANDSCAPE ARCHITECT.
 - STORAGE HAS BEEN PROVIDED IN A CELLULAR STORAGE TANK AND UP-SIZED MANHOLES AND PIPES.
 - EXISTING SEWER DEPTHS HAVE BEEN APPROXIMATED FROM LIMITED INFORMATION. NEW CONNECTIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION OF ANY DRAINAGE WORKS.
 - LANDSCAPE ARCHITECT TO CONFIRM GULLY AND DRAINAGE CHANNEL LOCATIONS TO LANDSCAPED AREAS.
 - FOUL NETWORK TO BE CONFIRMED FOLLOWING CONFIRMATION OF BRANCH CONNECTION POINTS FROM BUILDING M&E DESIGNER.
 - CCTV SURVEY OF EXISTING SITE DRAINAGE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY WORKS STARTING ON SITE.

- LEGEND**
- PROPOSED SURFACE WATER MANHOLE
 - PROPOSED FOUL WATER MANHOLE
 - PROPOSED FOUL WATER PPIC
 - PROPOSED SURFACE WATER DRAINAGE
 - PROPOSED SURFACE WATER PERFORATED PIPE
 - PROPOSED FOUL WATER DRAINAGE
 - PROPOSED DIVERSION OF EXISTING SURFACE WATER DRAINAGE
 - PROPOSED DIVERSION OF EXISTING FOUL WATER DRAINAGE
 - PROPOSED DIVERSION OF EXISTING CULVERTED WATERCOURSE
 - PROPOSED PERMEABLE MACADAM WITH PERFORATED UNDERDRAINS 300mm THICK TYPE 3 POROUS MATERIAL (MIN 30% POROSITY)
 - PROPOSED RAIN GARDENS WITH PERFORATED UNDERDRAINS
 - PROPOSED RAIN ATTENUATION TANK
 - PROPOSED ROAD GULLY
 - VENT PIPE - LOCATION TO BE CONFIRMED BY ARCHITECT
 - PROPOSED YARD GULLY
 - PROPOSED FLOOR GULLY
 - EXISTING PRIVATE SURFACE WATER SEWER
 - EXISTING ABANDONED PRIVATE SURFACE WATER SEWER
 - EXISTING PRIVATE FOUL WATER SEWER
 - EXISTING ABANDONED PRIVATE FOUL WATER SEWER
 - SITE BOUNDARY

REV	DATE	DESCRIPTION	BY	CHK	APP
P08	10.10.2023	UPDATED TO SUB LATEST SITE LAYOUT	JRS	PL	PL
P07	06.09.2023	REV UPDATED	JRS	PL	PL
P06	20.04.2023	STAGE 4 ISSUE	JRS	PL	PL
P04	24.02.2023	UPDATED FOR PLANNING	JRS	JP	PL
P03	16.12.2022	STAGE 3 ISSUE	JRS	JRS	PL
P02	01.12.2022	STAGE 2 ISSUE	JRS	JRS	PL
P01	01.09.2022	PRELIMINARY ISSUE	JRS	JRS	PL
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS

STAGE 4

CLIENT: **TILBURY DOUGLAS**

ARCHITECT: **ELLIS WILLIAMS ARCHITECTS**

PROJECT: **ALL SAINTS RC HIGH SCHOOL RAWTENSTALL**

TITLE: **BELOW GROUND DRAINAGE OUTLINE DRAINAGE STRATEGY**

STATUS	PROJECT No.	PROJECT	ORIGIN	FUNCTION	SPECIAL FORM	DATE	DRAWING No.	REV
S3	222-089	SRP1051-AJP-ZZ-00-D-C-1000	JRS	JRS	JRS	APPROVED	08	AUG 2022

SCALE: 1:500

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