

NOTE:
FOUL GULLIES MARKED FGx TO BE KESSEL ODOUR STOP TYPE.

FOUL GULLIES TO BE PROVIDED IN BASE OF EACH WEIGHBRIDGE AND CONNECT INTO FUEL/OIL INTERCEPTOR - DETAILS TBC UPON RECEIPT OF WEIGHBRIDGE DETAIL DRAWINGS.

FOUL DRAINAGE INDICATED ADJACENT TO VEHICLE MAINTENANCE UNIT FOR CONNECTION TO VEHICLE PITS - ALL DETAILS TBC.

TANKED DIT TYPE 3 SUB-BASE TO CENTRAL BAYS OF CARPARK BAYS TO CONTINUE UNDER CENTRAL FOOTWAY.

CONNECTING PIPES FROM GATICS SUBJECT TO CHANNEL DESIGN BY ALUMASC WMS.

PROPOSED SPEL VEHICLE WASH/CLASS 2 FULL RETENTION PETROL/OIL SEPARATOR MODEL W2500/2000. ALLOW FOR A 250mm THK GRADE C28/35 CONCRETE BED AND SURROUND ON 450mm THK DIT TYPE 1 SUB-BASE TOGETHER WITH A SOLAR POWERED AUDIBLE AND VISUAL SEPARATOR ALARM MOUNTED WITHIN THE MAINTENANCE BUILDING OR FIXED TO THE YARD SLAB EXACT LOCATION OF SEPARATOR ALARM AND SEPARATOR VENT PIPE TO BE AGREED. INSTALLATION TO BE IN ACCORDANCE WITH THE MANUFACTURES REQUIREMENTS. CL 157.823

PROPOSED SPEL VEHICLE WASH SILT SEPARATOR MODEL S1800/12. ALLOW FOR A 250mm THK GRADE C28/35 CONCRETE BED AND SURROUND ON 450mm THK DIT TYPE 1 SUB-BASE. INSTALLATION TO BE IN ACCORDANCE WITH THE MANUFACTURES REQUIREMENTS. CL 157.820

FOR SEWER DIVERSION LAYOUT, MANHOLE SCHEDULE & DETAILS REFER TO Drg No. T_24_2757-56-01 - Drainage Diversion Enabling Works.

FOR SEWER DIVERSION LAYOUT, MANHOLE SCHEDULE & DETAILS REFER TO Drg No. T_24_2757-56-01 - Drainage Diversion Enabling Works.

HOLD ITEMS:
FOUL TO MAINTENANCE BUILDING WORKSHOP AREA AND WEIGHBRIDGE AREA TBC BY CLIENT.

Ex. HIGHWAYS DRAIN OUTFALL PIPE DIA AND INVERTS TAKEN FROM TIER ENVIRONMENTAL TRIAL HOLE INVESTIGATIONS.

NOTE: CELLULAR ATTENUATION SYSTEMS. ALL CELLULAR ATTENUATION SYSTEMS TO BE FULLY ENCAPSULATED WITH A 1mm THICK IMPERMEABLE MEMBRANE WITH ALL JOINTS TO BE FULLY WELDED. VENT PIPES TO BE LOCATED IN SOFT LANDSCAPED AREAS (EXACT NUMBER TO BE AGREED WITH SYSTEM MANUFACTURER). ACCESS POINTS AND INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

PROPOSED SPEL PURACECTOR FULL RETENTION SEPARATOR - MODEL P700 12/12. ALLOW FOR A 300mm THK GRADE C28/35 CONCRETE BED AND 250mm THK SURROUND ON 450mm THK DIT TYPE 1 SUB-BASE TOGETHER WITH A SOLAR POWERED AUDIBLE AND VISUAL SEPARATOR ALARM SECURED TO A 750x50 x 150mm THK GRADE C28/35 CONCRETE BASE ON 300mm THK DIT TYPE 1 SUB-BASE. EXACT LOCATION OF SEPARATOR ALARM AND SEPARATOR VENT PIPE TO BE AGREED. INSTALLATION TO BE IN ACCORDANCE WITH THE MANUFACTURES REQUIREMENTS. CL 155.035

BACKUP GENERATOR TO HAVE FULL PERIMETER ACO S1500 DRAINAGE CHANNEL CONNECTED TO SPEL PURACECTOR POOL INTERCEPTOR CONNECTED TO THE FOUL DRAINAGE NETWORK.

CELLULAR ATTENUATION SYSTEM 1 TO CATER FOR THE 1 IN 100 YEAR EVENT +40% FOR CLIMATIC CHANGE 1600.0m² x 0.85m DEEP TO PROVIDE 1292.0m³.
CL 154.988 (Min. - Varies)
IL 154.112 (Top of Unit)
IL 153.262 (Base of Unit)

CELLULAR ATTENUATION SYSTEM 2 TO CATER FOR THE 1 IN 100 YEAR EVENT +40% FOR CLIMATIC CHANGE 2400.0m² x 1.25m DEEP TO PROVIDE 2850.0m³.
CL 154.995 (Min. - Varies)
IL 154.000 (Top of Unit)
IL 153.000 (Base of Unit)

FILLING STATION AREA TO BE DESIGNED IN ACCORDANCE WITH: APEA Guidance for Design, Construction, Modification, Maintenance and Decommissioning of Filling Stations. (Blue Book 9th Edition)

OUTLET HEADWALL, ALTHON H20C C PRECAST HEADWALL C/W CRANKED GRATING, 3 SIDED KEY CLAMP HANDRAIL WITH ANTI SCOUR RENO MATTRESS OR ROCK ROLL PROTECTION TO BED AND EMBANKMENT. IL: 153.000

PROPOSED 2.021m DEEP ATTENUATION BASIN TO ACHIEVE A VOLUME OF 638.70m³ REQUIRED TO CATER FOR THE 1 IN 100 YEAR EVENT +40% FOR CLIMATIC CHANGE. SLOPE SIDES TO BE AT A GRADIENT OF 1 IN 5. ATTENUATION BASIN FINISH/VEGETATION TO BE ADVISED BY LANDSCAPER.
Top of Basin = 155.021
Base of Basin = 153.000
Water Level (1 IN 100YR + 40%CC) = 154.372
Water Level (1 IN 110YR) = 153.206

Notes

- THIS DRAWING IS THE COPYRIGHT OF TIER CONSULT GROUP AND CANNOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN CONSENT FROM THE COMPANY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS', ENGINEERS' AND SPECIALIST'S DRAWINGS TOGETHER WITH THE APPROPRIATE SPECIFICATION.
- ALL DIMENSIONS ARE IN MILLIMETRES UNO, FOR THE PURPOSES OF CONSTRUCTION THIS DRAWING MUST NOT BE SCALED AND ONLY WRITTEN DIMENSIONS USED. IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER IN WRITING.
- THE WORKS SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING SPECIFICATION.
- THE LOCATION LINE & LEVEL OF ALL KNOWN EXISTING DRAINAGE PIPEWORK INDICATED ON THE DRAWINGS ARE APPROXIMATE AND FOR GUIDANCE PURPOSES ONLY.
- CONNECTION TO THE EXISTING PUBLIC SEWERS WILL BE SUBJECT TO THE RELEVANT APPROVALS FROM THE STATUTORY UNDERTAKER.
- IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXACT LINE AND LEVEL, BY WAY OF HAND EXCAVATED TRIAL PITS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS ON SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND MAINTAIN THE STRUCTURAL INTEGRITY OF ALL ABOVE AND BELOW GROUND SERVICE INSTALLATIONS.
- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THROUGHOUT THE DURATION OF THE CONTRACT A FULL TRAFFIC MANAGEMENT SYSTEM TO ENSURE SAFE PASSAGE OF VEHICLES/PEDESTRIANS IN THE VICINITY OF THE WORKS. ALL TRAFFIC SIGNS, SIGNALS, BARRIERS ETC. SHALL BE IN ACCORDANCE WITH CHAPTER 8 OF THE TRAFFIC SIGNS MANUAL.
- THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR DEALING WITH AND DISPOSING OF GROUND/SURFACE WATER ENCOUNTERED DURING EXCAVATIONS.
- ALL SOFT / HARD PAVED AREAS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED FOLLOWING THE INSTALLATION OF ALL DRAINAGE WORKS. ALL SURFACE MARKINGS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED.
- ALL SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED IN A DESIGNATED AREA ON SITE.
- UPON COMPLETION OF THE WORKS THE CONTRACTOR SHALL PROVIDE AS BUILT SETTING OUT CO-ORDINATE AND LEVEL INFORMATION ALONG WITH A FULL CCTV REPORT AND LAYOUT.
- PIPEWORK WITH LESS THAN 1200mm OF COVER IN TRAFFICED AREAS TO BE CONCRETE ENCASED. (BEDDING CLASS 2)
- PIPEWORK WITH MORE THAN 1200mm OF COVER TO HAVE CLASS 5 GRANULAR BED AND SURROUND.
- POLYPROPYLENE INSPECTION CHAMBERS OF 4500 x 1.2m DEEP TO BE FITTED WITH A REDUCED ACCESS FITTING.
- SOIL STACKS - WHERE STAKES SERVE MULTIPLE STOREYS THE STACK REST BEND IS TO BE MINIMUM 750mm BELOW THE LOWEST BRANCH CONNECTION. WHERE SEPARATE STACKS ARE PROVIDED FOR GROUND FLOOR, REST BENDS MAY BE 450mm MINIMUM BELOW THE LOWEST CONNECTION.
- SVF CONNECTIONS TO BE 100mm DIA UNO.
- ALL FO AND RWP LOCATIONS TO BE TO BE COMPLETE WITH A LOW LEVEL ACCESS PLATE FOR ROODING.
- WHERE PROPOSED DRAINAGE PIPEWORK RUNS ARE IN CLOSE PROXIMITY TO THE NEW FOUNDATIONS, THE CONTRACTOR SHALL ALLOW FOR EXTENDING THE DEPTH OF NEW FOUNDATIONS IN LEAN MIX CONCRETE DOWN TO THE PROPOSED PIPE BEDDING LEVEL.
- THE HYDRAULIC DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH CIBRA REPORT C753 THE SUDS MANUAL AND THE HYDRAULIC DESIGN OF PIPELINES AND OTHER CONDUITS HAS BEEN CARRIED OUT IN ACCORDANCE WITH BS EN 16933-7.

Legend:

- RED LINE BOUNDARY.
- Ex. FOUL PUBLIC SEWER.
- Ex. SURFACE WATER HIGHWAY SEWER.
- Ex. SURFACE WATER HIGHWAY SEWER TO BE DIVERTED AND GRUBBED UP.
- DIVERGENT ROUTE OF EX. SURFACE WATER HIGHWAY SEWER & ASSOCIATED MANHOLES.
- PROPOSED SURFACE WATER DRAIN. (TYPICALLY 1000 FROM RWP AND 1500 FROM HG/SU UNO)
- PROPOSED SURFACE WATER INSPECTION CHAMBER / MANHOLE.
- PROPOSED LINE DRAINAGE CHANNEL.
- PROPOSED TRAPPED ROAD GULLY.
- PROPOSED SIPHONIC RAINWATER PIPE.
- PROPOSED RAINWATER DOWN PIPE.
- PROPOSED PERMEABLE SURFACING TO PARKING BAYS - DIT TYPE 3 OR TYPE 1x TANKED WITH AN IMPERMEABLE MEMBRANE WITH UNDER FILTER DRAIN.
- PROPOSED SURFACE WATER CELLULAR ATTENUATION SYSTEM.
- PROPOSED FOUL DRAIN (1000 UNO).
- PROPOSED FOUL RISING MAIN.
- PROPOSED FOUL INSPECTION CHAMBER / MANHOLE.
- PROPOSED FOUL OUTLET.

NOTE:

- ALL SURFACE WATER CHAMBERS ARE TO BE PCC WITH D400 COVERS UNO.
- ALL FOUL CHAMBERS ARE TO BE MIN 4500 HD PPIC WITH D400 COVERS (C250 IN SOFT LANDSCAPED AREAS) UNO.
- ALL DRAINAGE WITH LESS THAN 750 COVER IS TO BE ENCASED IN MIN 150THK C32/19 CONCRETE.
- ALL GATICS UNITS TO HAVE ACCESS BOX AT HEAD OF RUNS AND SILT BOX AT OUTLET LOCATIONS SUBJECT TO DESIGN BY ALUMASC WMS.
- VENT PIPES FROM INTERCEPTORS TO BE SITED IN SOFT LANDSCAPED AREAS.
- MANHOLE COVERS IN PAVED AREAS ARE TO BE RECESSED.
- ACO CHANNELS WITHIN CARPARK ARE TO BE 150SD WITH HEEL GUARD GRATINGS AND SUMP AT OUTFALL LOCATIONS.



TYPICAL D400 (min 600 x 600) SIPHONIC BREAK CHAMBER MANHOLE COVER.

Rev	Date	By	Description	Chk	App
P5	31.07.2025	CCF	Updated to suit L&F&A comments	CCF	PJB
P4	13.05.2025	CCF	Client name updated	CCF	PJB
P3	08.05.2025	CCF	Updated to suit latest site plan	CCF	PJB
P2	08.04.2025	CCF	Updated to suit latest site plan	CCF	PJB
P1	02.05.2024	CCF	Preliminary Issue	JH	PJB

PRELIMINARY



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PROJECT EXCELLENCE.

Drawing Title:
PROPOSED DRAINAGE LAYOUT.

SHEET 1.

Drawing No:	Drawn By:	Drawing Start Date:
T_24_2757	C.C. FITTON	25.01.2024

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P5