

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 D/T TYPE 3 SUB-BASE TO CENTRAL BAYS OF CARPARK BAYS TO CONTINUE UNDER CENTRAL FOOTWAY.

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

ALL DUCTS / VENTS ARE TO BE DOUBLED UP TO ALL INTERCEPTORS, AND PUMP CHAMBERS.

PROPOSED SPEL VEHICLE WASH SILT SEPARATOR MODEL 57800/12. ALLOW FOR A 250mm THK GRADE C28/35 CONCRETE BED AND SURROUND ON 450mm THK D/T TYPE 1 SUB-BASE. CL

PROPOSED SPEL VEHICLE WASH CLASS 2 FULL RETENTION PETROL/OIL SEPARATOR MODEL WDS200/2000. ALLOW FOR A 250mm THK GRADE C28/35 CONCRETE BED AND SURROUND ON 450mm THK D/T 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. CL

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

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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 12/150. ALLOW FOR A 300mm THK GRADE C28/35 CONCRETE BED AND 250mm THK SURROUND ON 450mm THK D/T TYPE 1 SUB-BASE TOGETHER WITH A SOLAR POWERED AUDIBLE AND VISUAL SEPARATOR ALARM SECURED TO A 750sq x 150mm THK GRADE C28/35 CONCRETE BASE ON 300mm THK D/T 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.

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)

ALL DUCTS / VENTS ARE TO BE DOUBLED UP TO ALL INTERCEPTORS, AND PUMP CHAMBERS.

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 SIRS 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

1 No. INLET HEADWALL - ALTHON H20C PRECAST HEADWALL C/W CRANKED GRATING, 3 SIDED KEY CLAMP HANDRAIL WITH ANTI SCOUR RENO MATTRESS OR ROCK ROLL PROTECTION TO BED AND ENKAMMENT. IL: 153.072

PROPOSED SPEL PURACECTOR CLASS 1 FORECOURT SEPARATOR MODEL P700 12/150. ALLOW FOR A 300mm THK GRADE C28/35 CONCRETE BED AND SURROUND ON 450mm THK D/T TYPE 1 SUB-BASE TOGETHER WITH A SOLAR POWERED AUDIBLE AND VISUAL SEPARATOR ALARM SECURED TO A 750sq x 150mm THK GRADE C28/35 CONCRETE BASE ON 300mm THK D/T 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. IL: 154.883

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

PROPOSED SPEL PURACECTOR FULL RETENTION SEPARATOR MODEL P700 12/150. ALLOW FOR A 300mm THK GRADE C28/35 CONCRETE BED AND 250mm THK SURROUND ON 450mm THK D/T TYPE 1 SUB-BASE TOGETHER WITH A SOLAR POWERED AUDIBLE AND VISUAL SEPARATOR ALARM SECURED TO A 750sq x 150mm THK GRADE C28/35 CONCRETE BASE ON 300mm THK D/T 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. MAX CL 155.867 MIN CL 155.500

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.
- ALL LEVELS ARE IN METRES UNO & TO OS DATUM.
- 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 EXCOURATED 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 SOIL STACKS 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.
- SVP 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 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.
- DIVERTED ROUTE OF Ex. SURFACE WATER HIGHWAY SEWER & ASSOCIATED MANHOLES.
- PROPOSED SURFACE WATER DRAIN. (TYPICALLY 1000 FROM RWP AND 1500 FROM FSU UNO).
- PROPOSED SURFACE WATER INSPECTION CHAMBER / MANHOLE.
- PROPOSED LINE DRAINAGE CHANNEL.
- PROPOSED TRAPPED ROAD GULLY, E600.
- PROPOSED SIPHONIC RAINWATER PIPE.
- PROPOSED RAINWATER DOWN PIPE.
- PROPOSED PERMEABLE SURFACING TO PARKING BAYS - D/T 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 E600 COVERS UNO.
- ALL FOUL CHAMBERS ARE TO BE MIN 4500 HD PPIC WITH E600 COVERS (C250 IN SOFT LANDSCAPED AREAS) UNO.
- ALL DRAINAGE WITH LESS THAN 750 COVER IS TO BE ENCASED IN MIN 150THK C32/40 CONCRETE.
- ALL GATICS UNITS TO HAVE ACCESS BOX AT HEAD OF RUNS AND SILT BOX OUT AT LOCATIONS SUBJECT TO DESIGN BY ALLUMASC 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 UTILISED WITH HEEL GUARD GRATINGS AND SUMP AT OUTFALL LOCATIONS.



TYPICAL E600 (min 600 x 600) SIPHONIC BREAK CHAMBER MANHOLE COVER.

Rev	Date	By	Description	Chk	App
P8	09.09.2023	CCF	Surface water outfall details updated	CCF	PJB
P5	31.07.2023	CCF	Updated to suit LFA 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	03.05.2024	CCF	Preliminary Issue	JH	PJB

PRELIMINARY

Rev	Date	By	Description	Chk	App
S0	15.05.2024	CCF	Surface water outfall details updated	CCF	PJB
S1	15.05.2024	CCF	Client name updated	CCF	PJB
S2	15.05.2024	CCF	Updated to suit latest site plan	CCF	PJB
S3	15.05.2024	CCF	Updated to suit latest site plan	CCF	PJB
S4	15.05.2024	CCF	Updated to suit latest site plan	CCF	PJB
S5	15.05.2024	CCF	Updated to suit latest site plan	CCF	PJB

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Project Title:
PROPOSED DRAINAGE LAYOUT.
SHEET 1.

Drawing No: T_24_2757-55-02

Drawing Scale: 1:500 @ A0

Drawing Start Date: 25.01.2024

Tier Project Number: T_24_2757

Drawing No: T_24_2757-55-01

Revision: P5

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