

GENERAL NOTES

- CONFIRM ALL LEVELS ON SITE PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR IS TO LOCATE AND PROTECT ALL EXISTING SERVICES WHETHER SHOWN ON THE PLANS OR NOT.
 IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE EXACT LOCATIONS OF ALL
- 3. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE EXACT LOCATIONS OF ALL SERVICES & INFORM ALL RELEVANT AUTHORITIES PRIOR TO ANY EXCAVATION.

 4. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE EXISTING FOOTINGS ARE NOT UNDERWINED.

 5. DESIGN & INSTALLATION OF ANY TEMPORARY SHORING THAT MAY BE REQUIRED IS THE RESPONSIBILITY OF THE CONTRACTOR.

 6. GRADE ALL DRIVEWAYS AND COURTYARDS TO DRAIN TO STORMWATER PITS.

- ALL PVC PIPES TO BE SEWER GRADE OR EQUIVALENT
- MIN GRADE ON ALL PIPES 1% (1 in 100) U.N.O.

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 5. STEEL GRATES TO BE GALVANISED HEAVY DUTY.

 10. PROVIDE SEALED FLUSHING POINT ON INLET AND OUTLET PIPES FROM TANK.

 11. PROVIDE ADDITIONAL FLUSHING POINTS ON ALL CHARGED LINES TO ALLOW PERIODICAL CLEANING OF PIPEWORK.

 12. CLEAN-OUT PITS ARE TO BE INSPECTED MONTHLY AND ANY LEAKS REPAIRED IMMEDIATELY. LEAKING PIPEWORK OR PITS MAY LEAD TO DAMAGE TO HOUSE SOLINDATIONS.
- FOUNDATIONS.

EROSION CONTROL NOTES

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TEMPORARY PROTECTION FROM WIND AND WATER EROSION WILL BE UNDERTAKEN
ON LANDS WHERE WORKS ARE UNLIKELY TO PROCEED FOR PERIODS OF AT LEAST
TWO MONTHS AND FINAL SHAPING HAS NOT BEEN COMPLETED (EG. TOPSOIL
STOCKPIES). THIS MAY BE ACHIEVED WITH A VEGETATIVE COVER. A RECOMMENDED
LISTING OF PLANT SPECIES FOR TEMPORARY COVER IS:

	DATS/RYECORN @ 10 KG/HA
	OATS/RYECORN @ 20 KG/HA JAPANESE MILLET @ 10 KG/HA
FOOT AND VEHICLE AD TRACEIC CHOILED DE IC	EDT ALVAY EDOM ANY DELIABILITATED

AND VEHICULAR TRAFFIC SHOULD BE KEPT AWAY FROM ANY REHABILITATED AREAS WHERE PRACTICAL.

- AREAS WHILE FARALLISAL.
 DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS ARE TO BE KEPT MOIST (NOT
 WET) BY SPRINKLING WITH WATER FOR DUST CONTROL.
 FINAL SITE LANDSCAPING WILL BE UNDERTAKEN ON EACH PRECINCT/AREA AS SOON AS
 POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION

DRAINAGE NOTES

- SELECTION AND INSTALLATION OF PITS, PIPES, TANKS AND TRENCHES SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF AS/NZS3500 (ALL PARTS), LOCAL AND STATUTORY REQUIREMENTS UNLESS NOTED OTHERWISE.

 THE CONTRACTOR SHALL IDENTIFY AND LOCATE ALL SERVICES PRIOR TO CONSTRUCTION. SEDIMENT AND EROSION CONTROLS TO BE PROVIDED IN ACCORDANCE WITH ALL LOCAL
- AND STATUTORY REGULATIONS. WHERE REQUIRED, STORMWATER EASEMENTS SHALL BE OBTAINED BY THE OWNER. ALL NEGOTIATIONS / COMPENSATION PAYMENTS AND THE INTEGRATION OF ANY FASEMENTS.
- NEGOTIATIONS / COMPENSATION PAYMENTS AND THE INTEGRATION OF ANY EASEMENTS INTO THE TITLE DOCUMENTS SHALL BE BY THE OWNER UNIESS AGREED OTHERWISE. REFER TO ARCHITECT FOR BUILDING AND DRIVEWAY SETOUT. DOWN PIPE LOCATIONS ARE INDICATIVE ONLY, REFER TO ARCHITECT FOR FINAL LOCATIONS. CONNECT ALL DOWN PIPES TO STORTWATER SYSTEM, WHETHER SHOWN OR OTHERWISE, IN ACCORDANCE WITH THE FOLLOWING TABLE:
- CATCHMENT AREA PIPE SIZE JP TO 150 SQUARE METRES 100 DIAMETER PIPE 150 TO 500 SQUARF METRES 150 DIAMETER PIPE 500 TO 1000 SQUARE METRES 225 DIAMETER PIPE OVER 1000 SQUARE METRES REFER TO ENGINEER
- PIPE POSITIONS ARE INDICATIVE ONLY. FINAL POSITIONS TO BE DETERMINED ON SITE
- PIPE POSITIONS ARE INDICATIVE ONLY. FINAL POSITIONS TO BE DETERMINED ON SIT AND SHALL CONFORM WITH THE INTENT OF THIS DESIGN.

 THE ENGINEER SHALL BE ADVISED IF ANY EXISTING STRUCTURES ARE WITHIN THE ZONE OF INFLUENCE OF ANY EXCAVATION. ANY REQUIRED UNDER-PINNING OR PIERING SHALL BE PROVIDED.

 WHERE EXCAVATING ADJACENT TO BOUNDARIES ADEQUATE SHORING SHALL BE
- PROVIDED.

 10. THE CONTRACTOR SHALL ENSURE THAT ALL NEW STRUCTURES ARE FOUNDED BELOW THE ZONE OF INFLUENCE OF ANY EXCAVATIONS WHETHER THEY BE FOR PIPELINES TANKS OR OTHER DRAINAGE FACILITIES.
- PIPELINES, LANKS OR O HER DRAINAGE FACILITIES.
 UNLESS NOTED DITHERWISE, THE MAXIMM DEVIATION FROM NOMINATED LEVELS
 SHALL BE +/- 10mm, EXCEPT IN INSTANCES WHERE SUCH A DEVIATION COULD
 HAVE ADVERSE EFFECTS, IN WHICH CASE, THE ENGINEER SHALL BE CONSULTED.
 LOAD CLASS FOR COVERS/GRATES SHALL BE IN ACCORDANCE WITH AS3996 1992.
 COMMON CASES FOR RESIDENTIAL SITES ARE SUMMARISED IN THE FOLLOWING
 TABLE:

ADLL:				
CLASS	LOADING	DESCRIPTION		
c		FOR USE IN PEDESTRIAN ACCESS WITH OCCASIONAL MOTOR VEHICLES, WITH WHEEL LOADS NOT EXCEEDING 3.7 TONNES.		
		OF TOWNS IN MINOR RESIDENTIAL ROADS & CUL-DE-SACS CARRYING SLOW MOVING COMMERCIAL VEHICLES (GENERATING NO IMPACT LOADING) WHERE WHEEL LOADS WILL NOT EXCEED		

- 13. UNTIL COMPLETION OF ALL WORKS, THE CONTRACTOR SHALL FIRSTLY FILTER ALL
- . UNTIL COMPLETION OF ALL WORKS, THE CONTRACTOR SHALL HISTLY FILTER ALL STORMWATER IN ACCORDANCE WITH APPROVED DETAILS TO ENSURE THE REMOVAL OF ALL CONCRETE AND PLASTERING FINES, AND OTHER BUILDING SITE POLLUTANTS. THE CONTRACTOR SHALL SEEK DIRECTION BEFORE COMMENCING ANY EXCAVATION THAT MAY RESULT IN DAMAGE TO ANY EXISTING TREES.

 RETAINING STRUCTURES SHALL BE PROVIDED AS REQUIRED IN ORDER TO ACHIEVE THE LEVELS NOMINATED ON THE DRAWINGS. THESE STRUCTURES SHALL COMPLY WITH ALL LOCAL AND STATUTORY REGULATIONS, AND MAY REQUIRE DESIGN BY AN PRIGNIEFE
- ENGINEER. 16. THE CONTRACTOR SHALL ADEQUATELY SHIELD PIPES AGAINST CONSTRUCTION AND
- PERMANENT LOADS. WHERE ADEQUATE COVER CANNOT BE PROVIDED. PIPES SHALL
- DERMANENT LOADS. WHERE ADEQUATE COVER CANNOT BE PROVIDED, PIPES SHALL
 BE ENCASED IN CONCRETE.

 1. UNLESS NOTED OTHERWISE, WHERE A PIT INVERT IS BELOW THE INVERT OF THE
 LOWEST OUTLET PIPE, THE CONTRACTOR SHALL EITHER PROVIDE DRAINAGE HOLES
 IN THE BASE OF THE PIT OR ELSE FILL THE BASE OF THE PIT WITH MASS
 CONCRETE TO THE INVERT OF THE LOWEST DUTLET PIPE.

 18. WHERE REQUIRED BY REQUILATIONS, STEP IRONS IN ACCORDANCE WITH AS1657
 SHALL BE INSTALLED IN DEEP PITS / TANKS TO ALLOW ACCESS FOR
 MAINTENANCE. PIT COVERS OVER DEEP PITS SHALL BE (FILLO-PRODEPE') BY
 BOLTING THEM DOWN, EXCEPT WHERE THE COVER WEIGHS OVER 30kg.

 19. ALL IMPERVIOUS SURFACES SHALL BE GRADED SUCH THAT THEY ARE FREE
 DRAINING, YARD PITS SHALL BE PROVIDED AS REQUIRED.

 20. YARDS SHALL BE GRADED TO FALL TO PITS UNLESS INDICATED OTHERWISE (eg. BY
 DESIGN CONTOURS, SPOT LEVELS OR A NOTE).

 21. UPON COMPLETION, PIPE / PIT EXCAVATIONS SHALL BE BACKFILLED WITH SUITABLE
 MATERIAL AND COMPACTED TO A DENSITY EQUIVALENT TO THE SURROUNDING
 NATURAL MATERIAL.

- NATURAL MATERIAL.
 22. WHERE REQUIRED BY THE PRINCIPAL CERTIFYER, WORK-AS-EXECUTED DETAILS
- SHALL BE PREPARED BY A REGISTERED SURVEYOR / CHARTERED PROFESSIONAL ENGINEER VERIFYING THAT THE DRAINAGE SYSTEM HAS BEEN CONSTRUCTED IN
- ENGINEER VERIFYING THAT THE DRAINAGE SYSTEM HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE DRAININGS. ANY DEVIATIONS FROM THE APPROVED PLANS SHALL BE NOTED AND BROUGHT TO THE ATTENTION OF THE ENGINEER. ADEQUATE INSPECTIONS SHOULD BE CARRIED OUT DURING THE COURSE OF CONSTRUCTION.

 23. WHERE AN ENGINEER'S CERTIFICATE WILL BE REQUIRED, THE ENGINEER SHALL BE CALLED ON TO INSPECT THE WORKS PRIOR TO ANY CONCRETE POURS, PRIOR TO BACKFILLING AROUND ANY TANKS, AND AT THE COMPLETION OF WORKS. THE ENGINEER SHALL BE GIVEN A MINIMUM OF 24 HOURS NOTICE BEFORE AN INSPECTION IS DECUMED. S REQUIRED.
- 24 ANY PROPOSED ALTERATIONS TO THE DETAILS SHOWN ON THE DRAWINGS SHALL
- 24. ANY PROPOSED ALTERATIONS TO THE DETAILS SHOWN ON THE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

 25. LEAF SCREENS, SILT CONTROLS AND ANY OTHER POLLUTANT CONTROL DEVICES SHALL BE REGULARLY SERVICED TO ENSURE THAT THE DRAINAGE SYSTEM REMAINS UNBLOCKED AND OPERATES AS ORIGINALLY INTENDED.

 26. OVERLAND FLOW PATHS SHALL BE REGULARLY MAINTAINED AND KEPT FREE OF OBSTRUCTIONS TO THE FLOW OF WATER.

 27. SUBSOIL DRAINAGE LINES SHALL BE PROVIDED BEHND RETAINING WALLS AND OTHER AREAS AS REQUIRED TO RELIEVE HYDROSTATIC PRESSURE AND DRAIN GROLING WATERS. COMMETCHINGT THE PRANAGE SYSTEM IN SICH A WAY AS TO
- GROUND WATERS. CONNECT INTO THE DRAINAGE SYSTEM IN SUCH A WAY AS TO AVOID BACKFLOW OF STORMWATER INTO THE SUBSOIL DRAINAGE LINE. IF IN DOUBT PEEED TO ENGINEED
- REFER TO ENGINEER.

 28. NEW FENCES, RETAINING WALLS AND OTHER LANDSCAPING ITEMS SHALL BE DETAILED IN SUCH A WAY SO AS TO AVOID IMPOUNDING OR DIVERTING SURFACE WATERS ON ADJOINING PROPERTIES.

 29. PIPE CLASSES AND TRENCH CONSTRUCTION SHALL BE ASSESSED IN ACCORDANCE WITH AS3725-1989 "LOADS ON BURIED CONCRETE PIPE" OR AS2566-1 "BURIED FLEXBILE PIPE PART 1 STRUCTURAL DESIGN" AND SHALL TAKE ACCOUNT OF ANTICIPATED LOADINGS FROM TRAFFIC AND SOIL.

DRAINAGE PLUMBER NOTES

- ACTUAL LAYOUT OF DOWNPIPES AND MINOR DRAINAGE TO BE CONFIRMED BY THE PLUMBER. ALL WORKS ARE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLUMBER, ALL WORRS AND TO BE IN ACCOUNTING TO THE STATE OF THE STATE OF WATER TO DRAIN TO RAINWATER TANKS.

 CONNECT OVERFLOW FROM RAINWATER TANKS TO SITE DRAINAGE SYSTEM.

 GRADE YARDS AND COURTYARDS TO DRAIN TO YARD PITS.

Α	04/12/23	ISSUED FOR D.A. APPLICATION			
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SD 04/12/23 1:100 B.S. CLARKE B.Eng,MIEAust DRAINAGE DETAILS & NOTES **A1** 14978 002