

LEGEND

- SW —

— RW —

— / — / — / —

— S —

— W —

— o — o — o — o — o — o —

CO

GTD

RHS

RWH

SW

SWP
- STORMWATER

RAINWATER

SUBSOIL DRAINAGE

AUTHORITY SEWER MAIN

AUTHORITY COLD WATER MAIN

TEMPORARY SEDIMENT FENCE

CLEAROUT

GRATED TRENCH DRAIN

RECTANGULAR HOLLOW SECTION

RAINWATER HEAD

STORMWATER

STORMWATER PIT

- ST
100

SWP

GTD

CO
- FLOW TO ABOVE

SERVICE TYPE

SERVICE SIZE

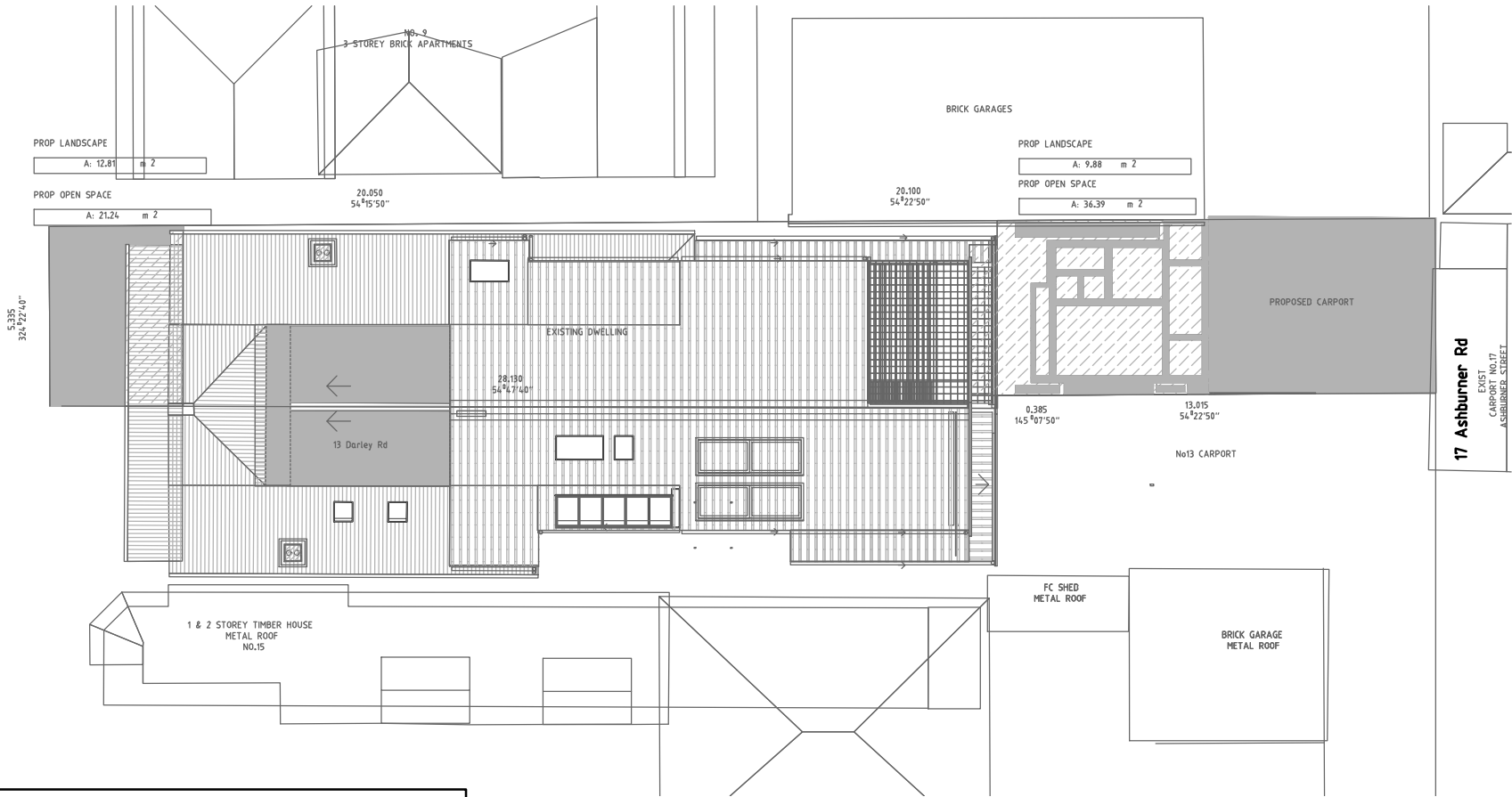
FLOW TO BELOW

STORMWATER GRATED PIT

GRATED TRENCH DRAIN

PIPE PENETRATING

CLEAROUT



STORMWATER NOTES

- COLEBROOK-WHITE ROUGHNESS $k = 0.015\text{mm}$ FOR POLYVINYL CHLORIDE PIPE (PVC) & 0.15mm FOR GALVANISED MILD STEEL (GMS).
- COLEBROOK-WHITE ROUGHNESS $k = 0.15\text{mm}$ FOR FIBRE REINFORCED CONCRETE(FRC) & 0.60mm FOR REINFORCED CONCRETE PIPE (RCP).
- A MINIMUM PIPE SLOPE OF 1.00% IS ASSUMED FOR CALCULATION PURPOSES.
- SURFACE LEVELS BASED ON ARCHITECTURAL & SURVEY DRAWINGS.
- CONFIRM PRACTICALITY OF PIPE INSTALLATION & ADVISE OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.
- STORMWATER DRAINAGE $< 300\text{Ø}$ TO BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS LAID ON GRANULAR BEDDING TO AS/NZS3500.3.
- STORMWATER DRAINAGE $> 225\text{Ø}$ TO BE CLASS 2 FIBRE REINFORCED CONCRETE WITH RUBBER RING JOINTS LAID ON GRANULAR BEDDING TO AS3500.3.
- SUBSOIL DRAINAGE (WHERE REQUIRED) TO BE SLOTTED UPVC WITH FILTER SOCK LAID IN FREE-DRAINING GRANULAR MATERIAL.
- CONFIRM ALL SUBSOIL DRAINAGE REQUIREMENTS PRIOR TO CONSTRUCTION & CONNECT DOWNSTREAM OF DETENTION TANK OUTLET WHERE APPLICABLE.
- ALL DRAINAGE TO BE MIN 100Ø UNLESS NOTED OTHERWISE.
- ALL RAINWATER OUTLETS TO BE 100Ø FLAT GRATE EQUAL TO SPECIALITY PLUMBING SUPPLIES TRUFLO SERIES (TEL 02 9416 8031).
- ALL DOWNPIPES DRAINING TO THE DETENTION SYSTEM SHALL BE MADE WATERTIGHT BELOW THE MAXIMUM WATER STORAGE LEVEL.
- DETENTION TANK PIPE CONNECTIONS SHALL BE PROVIDED WITH FLEXIBLE JOINTS TO ACCOMMODATE LONG-TERM SETTLEMENT AS PER AS/NZS3500.3 CLAUSE 7.3.3.
- BUILDER TO PROVIDE 'AS BUILT' DRAWINGS OF ALL RELEVANT DRAINAGE WORKS AS REQUIRED FOR CERTIFICATION PURPOSES.
- ANY PROPOSED CHANGE TO DETENTION DISCHARGE CONTROL SHALL BE SUBMITTED TO CONSULTANT FOR APPROVAL PRIOR TO INSTALLATION.
- FINAL DRAINAGE LAYOUT SHALL BE MARKED ON AS-BUILT DRAWINGS AS REQUIRED FOR CERTIFICATION & REFERENCE PURPOSES.
- ANY EASEMENTS, POSITIVE COVENANTS OR OTHER LEGAL INSTRUMENTS TO BE ARRANGED & REGISTERED BY SURVEYOR OR OTHER APPROVED AGENT.

NOTE:
THE BUILDER SHALL ENSURE THAT ALL ITEMS INDICATED ON THE APPROVED DRAWINGS (SUCH AS ORIFICE PLATE AT THE CORRECT LEVEL, REMOVABLE DEBRIS SCREEN, STEP RUNGS, ETC) HAVE BEEN INSTALLED PRIOR TO FINAL INSPECTION & MEASUREMENT BY A REGISTERED SURVEYOR OR OTHER APPROVED AGENT. ENGINEERING CERTIFICATION WILL NOT BE ISSUED IF DOCUMENTED VERIFICATION OF CRITICAL ITEMS (INCLUDING STORAGE VOLUME) IS NOT PROVIDED.

PRIOR TO THE BACKFILLING OF ABSORPTION PITS OR OTHER UNDERGROUND HYDRAULIC STRUCTURES WHICH ARE NOT READILY ACCESSIBLE, INLINE HYDRAULIC SERVICES ARE TO BE NOTIFIED AND ENGAGED TO ATTEND SITE TO REVIEW THE INSTALLATION AND A SURVEYOR SHALL BE REQUIRED TO VERIFY THE DIMENSIONS OF THE PIT. A MINIMUM OF TWO DAYS' NOTICE SHOULD BE PROVIDED PRIOR TO THE INSPECTION BEING SCHEDULED. IN ADDITION, THE BUILDING CONTRACTOR IS TO PROVIDE AN AS-BUILT DRAWING INDICATING ANY VARIATIONS TO THE APPROVED DESIGN, TOGETHER WITH SIGNED WRITTEN ADVICE STATING THAT THE WORKS HAVE BEEN CARRIED OUT WITH THE INTENT OF THE DESIGN. IF THIS IS NOT DONE, INLINE HYDRAULIC SERVICES WILL NOT BE ABLE TO PROVIDE COMPLIANCE CERTIFICATION.

ALL SIGN OFF/CERTIFICATIONS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE NCC AND AUSTRALIAN STANDARDS AND ANY OTHER RECORDS PROVIDED TO FACILITATE SIGN OFFS FOR OCCUPATION CERTIFICATE.		
A	01.12.22	DEVELOPMENT APPLICATION
No	Date	Details
Amendments		

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Project

11 DARLEY ROAD
MANLY

Drawing

HYDRAULIC SERVICES
SITE PLAN, LEGEND &
STORMWATER NOTES

Scale

1:200

Drawn

POK/PM

Date

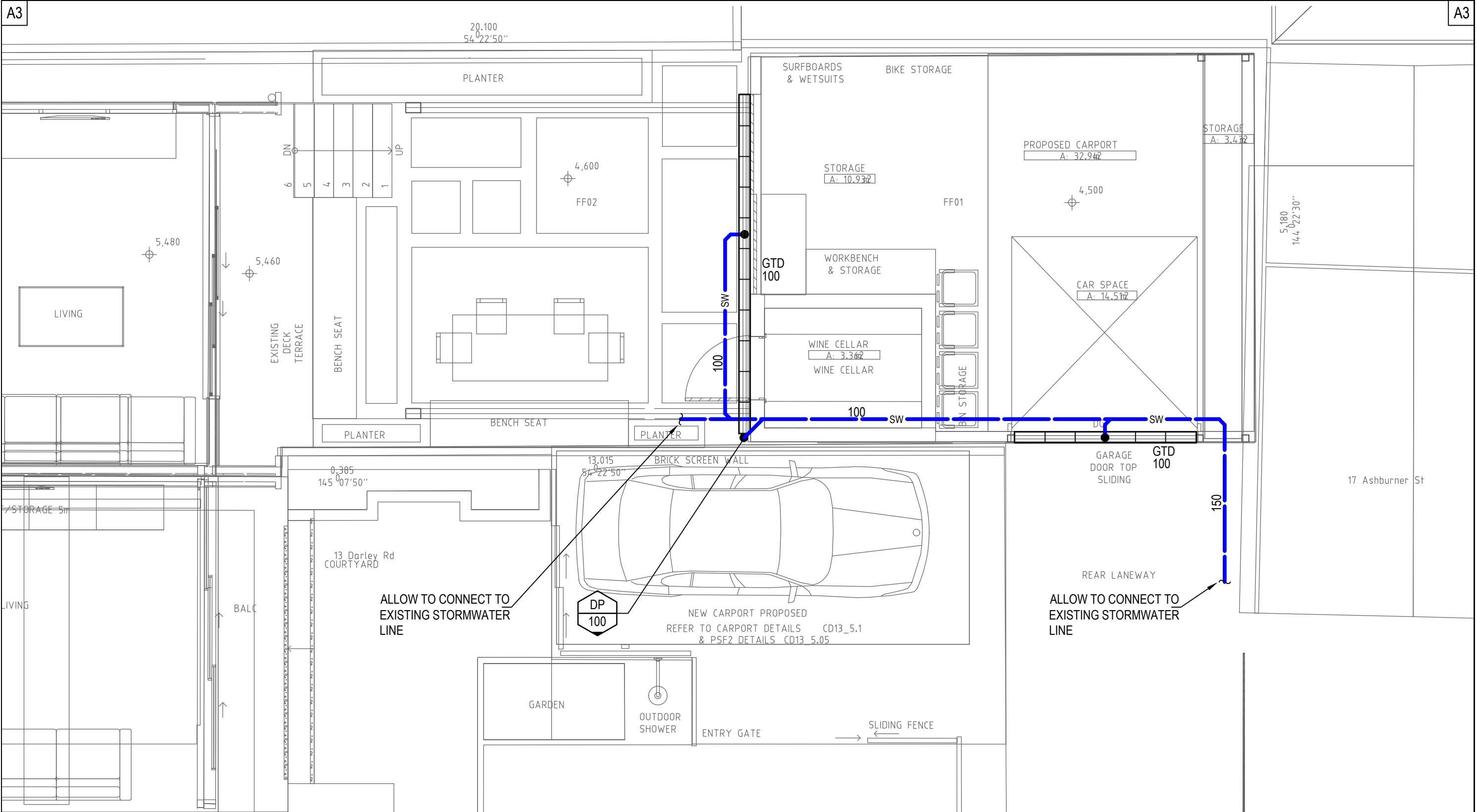
20.10.22

Project No.

22246

Drawing No / Revision

HDA01 / A



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**11 DARLEY ROAD
MANLY**

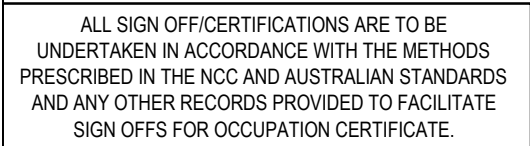
Drawing

**HYDRAULIC SERVICES
GROUND FLOOR PLAN**

INLINE
HYDRAULIC SERVICES

Scale	1:50	Drawn	POK/PM
Date	20.10.22		
Project No.	22246		
Drawing No / Revision	HDA02 / A		

A3



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11 DARLEY ROAD
MANLY



R T R A D I O L O G I C A L S E R V I C E S	Scale	1:50	Drawn	POK/PM
	Date	20.10.22		
	Project No.	22246		
	Drawing No / Revision	HDA03 / A		

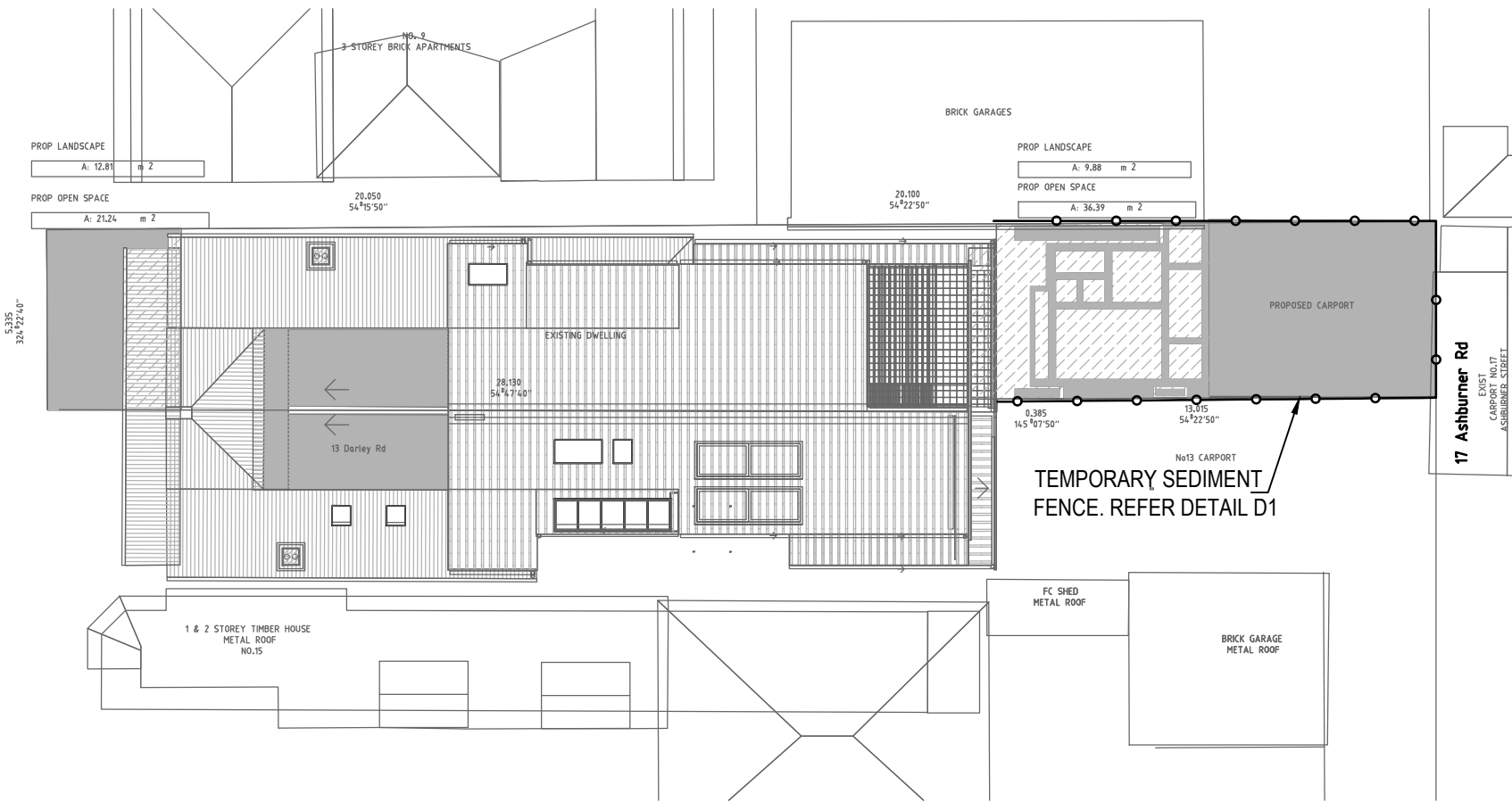
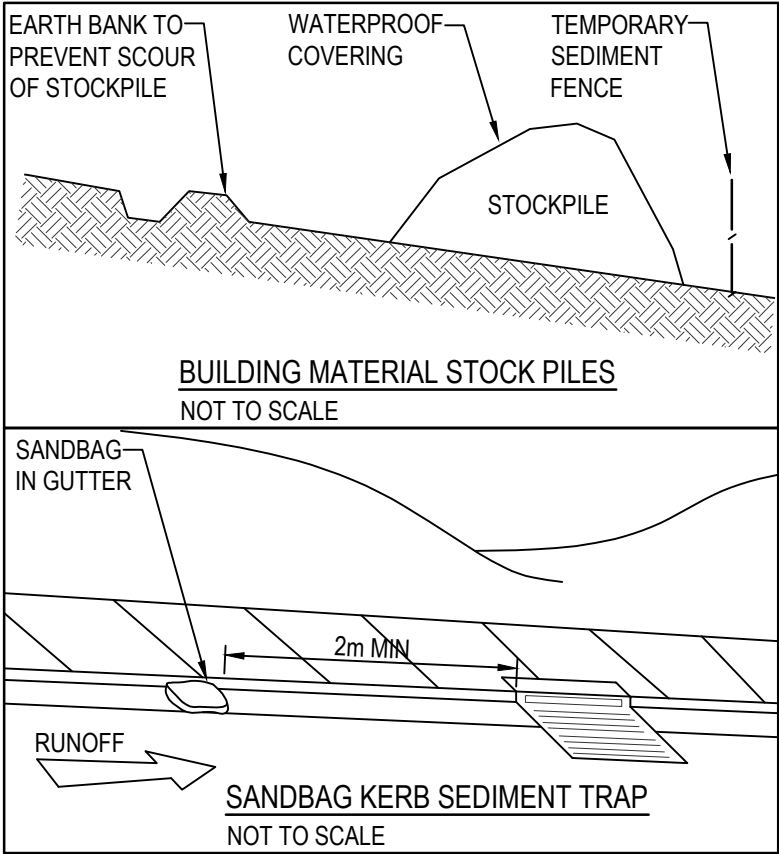
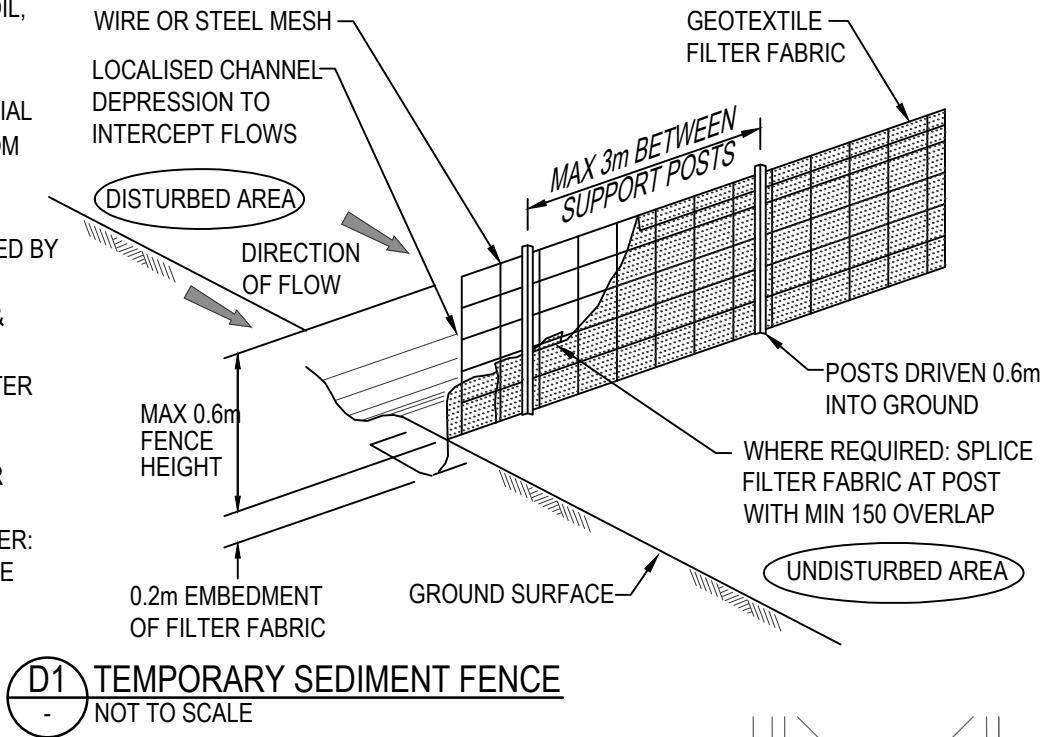
SOIL & WATER MANAGEMENT NOTES

- 1. REFER TO DETAIL FOR CONSTRUCTION OF TEMPORARY SEDIMENT FENCE.
- 2. ALL PITS & PIPEWORK ASSOCIATED WITH PROPOSED DRAINAGE SYSTEMS SHALL BE KEPT FREE OF SOIL, WATER & DEBRIS FOR THE DURATION OF THE CONSTRUCTION WORKS.
- 3. ALL LOOSE IMPORTED FILL & EXCAVATED MATERIAL SHALL BE STOCKPILED AS FAR AS POSSIBLE FROM SEDIMENT FENCES PRIOR TO FINAL PLACEMENT, COMPACTION OR REMOVAL FROM SITE.
- 4. EXCESSIVE SEDIMENT BUILDUP SHALL BE AVOIDED BY REGULAR MAINTENANCE OF SEDIMENT FENCES.
- 5. WHERE APPLICABLE, APPROVED LANDSCAPING & REVEGETATION OF DISTURBED AREAS SHALL COMMENCE AT THE EARLIEST OPPORTUNITY AFTER COMPLETION OF EARTHWORKS OPERATIONS.

CONSTRUCTION OF SEDIMENT FENCE & ANY OTHER SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH MANAGING URBAN STORMWATER: SOILS & CONSTRUCTION COMMONLY KNOWN AS THE 'BLUE BOOK'.
INTERNET REFERENCE:
<http://www.landcom.com.au/publications.aspx>

DESIGN PARAMETERS FOR SEDIMENT FENCE

MAX DRAINAGE AREA = 0.6000ha
MAX SLOPE GRADIENT = 50%
MAX SLOPE LENGTH = 60m



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Project

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MANLY



Drawing

HYDRAULIC SERVICES
SEDIMENT & EROSION
CONTROL PLAN

Scale	1:200	Drawn	POK/PM
Date	20.10.22		
Project No.	22246		
Drawing No / Revision	HDA04 / A		