CONSULTANT'S DRAWINGS AND SPECIFICATIONS.

- NO DIMENSIONS ARE TO BE OBTAINED BY SCALING FROM DRAWINGS. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER
- ALL WORKS TO BE IN ACCORDANCE WITH UNIVERSITY OF SYDNEY, CITY OF SYDNEY AND ROADS AND MARITIME STANDARDS AND SPECIFICATIONS
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND CODES OF PRACTICE, COUNCIL STANDARDS AND ROADS AND MARITIME REQUIREMENTS EXCEPT WHERE VARIED BY THE DRAWINGS. THE APPLICABLE STANDARDS SHALL BE THE REFERENCED STANDARDS CURRENT AT DATE OF DRAWING ISSUE
- THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS ONLY AS SUPPLIED BY A REGISTERED SURVEYOR.
- 7. ALL EXISTING STRUCTURES, SERVICES AND UTILITIES ARE TO BE LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS. THE LOCATION OF EXISTING SERVICES SHOWN ON PLANS ARE INDICATIVE ONLY BASED ON INFORMATION PROVIDED TO ARUP AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. THE RESPONSIBILITY FOR LOCATING, AVOIDANCE AND WHERE NECESSARY, TEMPORARY PROTECTION OF THESE EXISTING SERVICES IS THAT OF THE CONTRACTOR.
- ALL TESTING IS TO BE CARRIED OUT BY A NATA REGISTERED LABORATORY. TESTING METHODS ARE TO BE IN ACCORDANCE WITH THE APPLICABLE AUSTRALIAN STANDARD.
- ON COMPLETION OF THE WORKS THE CONTRACTOR SHALL PROVIDE AN AS-CONSTRUCTED SURVEY OF THE SITE.

SURVEY

 SURVEY FOR THIS DESIGN IS SUPPLIED BY: **AAM SURVEY**

SUITE 2, 33 WATERLOO ROAD, MACQUARIE PARK NSW 2113 PHONE: 02 8879 1600 FAX: 02 8879 1633

RPS AUSTRALIA EAST PTY LTD

LEVEL 13, 255 PITT STREET, SYDNEY NSW 2000

PHONE: 02 9248 9800 FAX: 02 9248 9810 CONNECTIONS TO EXISTING GAS AND WATER HAS BEEN DESIGNED FROM

- EASTERN AVENUE AS-BUILT INFORMATION BY: **AXIS PLUMBING** 10 NELSON AVENUE, PADSTOW NSW 2211
- PHONE: 02 9708 5666 FAX: 02 9708 5655 ARUP DOES NOT GUARANTEE THE ACCURACY OF THESE SURVEYS OR COMPLETENESS OF THE SURVEY BASE

GENERAL ABANDONMENT DECOMMISSIONING NOTES

- SERVICES WILL BE RELOCATED ACCORDING TO PHASES AND TIMING OF THE PROPOSED WORKS.
- THIS DRAWING SHOWS EXISTING SERVICES THAT HAVE BEEN DOCUMENTED BY THE SURVEYOR
- SERVICES MUST BE CAPPED OFF BEFORE BEING REMOVED OR RELOCATED
- 4. THE FOOTPRINT OF THE PROPOSED BUILDING HAS BEEN SHOWN INDICATIVELY ONLY AND IS SUBJECT TO ONGOING DESIGN DEVELOPMENT THE CONTRACTOR SHALL VERIFY WITH THE UNIVERSITY OF SYDNEY THAT THE BUILDING FOOTPRINT AND POSITION IS ACCURATE BEFORE PROCEEDING WITH CONSTRUCTION.
- REFER TO ARBORIST REPORT AND FINAL LANDSCAPE LAYOUT REGARDING TREES TO BE RETAINED AND ANY PROTECTIVE DETAILS.
- PROPOSED ELECTRICAL UTILITIES ARE SHOWN FOR COORDINATION ONLY REFER TO ELECTRICAL DESIGN DRAWINGS FOR FINAL DESIGN AND PROPOSED ELECTRICAL UTILITY LOCATIONS.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS.
- ALL WORK ON PUBLIC PROPERTY, PROPERTY WHICH IS TO BECOME PUBLIC PROPERTY, OR ANY WORK WHICH IS TO COME UNDER THE CONTROL OF THE STATUTORY AUTHORITY IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY THE CONTRACTOR SHALL OBTAIN THESE REQUIREMENTS FROM THE AUTHORITY. WHERE THE REQUIREMENTS OF THE AUTHORITY ARE DIFFERENT TO THE DRAWINGS AND SPECIFICATIONS, THE REQUIREMENTS OF THE AUTHORITY SHALL BE APPLICABLE.
- FOR ALL TEMPORARY BATTERS REFER TO GEOTECHNICAL REPORT PREPARED BY DOUGLAS PARTNERS REPORT ON DETAILED SITE INVESTIGATION - PROPOSED CHAU CHAK WING MUSEUM, DATED APRIL
- 10. WHERE DECOMMISSIONED/ABANDON CONDUIT IS CONNECTED TO LIVE PIPE OR PIT. THE LIVE SERVICE MUST BE REPAIRED AT THE CONNECTION POINT AND SURVEYED FOR AS BUILT DRAWINGS
- 11. ALL EXISTING REDUNDANT SERVICES ARE TO BE REMOVED ENTIRELY (GRUBBED OUT) AFTER ISOLATION UNLESS NOTED OTHERWISE ON PLANS. 12. BOTH THE DOWNSTREAM AND UPSTREAM END OF
- DECOMMISSIONED/ABANDONED SERVICE MUST BE SEALED WITH MASS CONCRETE PLUGS AND SURVEYED FOR AS BUILT DRAWINGS. 13. DECOMMISSIONED/ABANDONED CONDUITS MUST BE BACKFILLED WITH A SAND CEMENT/GROUT SLURRY WITH SPECIFIED SLUMP OF 230MM AND

MAX 10MM AGGREGATE.

EARTHWORKS

1. SELECTED MATERIAL FOR USE AS GENERAL FILL SHALL BE UNIFORM IN CLASSIFICATION, WELL GRADED, COARSE, GRANULAR AND FREE DRAINING. MAXIMUM PARTICLE SIZE 75mm. COMPACTED IN 150 MAX LAYERS TO

- OBTAIN 100% SMDD AS DETERMINED BY TEST AS 1289.5.1.1 THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORKS INCLUDING SHORING AND BATTERS. ALL TEMPORARY WORKS ARE TO BE DESIGNED IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND CODES OF PRACTICE BY A SUITABLY QUALIFIED ENGINEER.
- FILLING IS TO BE UNDERTAKEN IN MAXIMUM 150mm LOOSE LAYERS AT DEPTHS 500mm BELOW PROPOSED SUBGRADE. COMPACTION TO BE TO A MINIMUM DRY DENSITY RATIO OF 98% STANDARD; INCREASING TO 100% ABOVE SUBGRADE. MOISTURE CONTENT TO BE WITHIN 2% OF SOMC.
- 4. FOR SITE GEOTECHNICAL ASSESMENT REFER TO GEOTECHNICAL REPORT PREPARED BY DOUGLAS PARTNERS REPORT ON DETAILED SITE INVESTIGATION - PROPOSED CHAU CHAK WING MUSEUM, DATED APRIL
- EXCAVATED SURFACES ARE TO BE CHECKED FOR SOFT OR COMPRESSIBLE ZONES. SUCH ZONES ARE TO BE OVER EXCAVATED TO A MINIMUM DEPTH OF 300mm BELOW THE SOFT MATERIAL AND REPLACED WITH COMPACTED SELECTED MATERIAL IN ACCORDANCE WITH NOTE 1

PAVEMENTS

 PAVEMENT MATERIALS AND CONSTRUCTION ARE TO BE IN ACCORDANCE WITH THE RELEVANT DETAILS AND ROADS AND MARITIME SPECIFICATIONS.

- 2. THE CONTRACTOR SHALL MAKE SMOOTH THE CONNECTION WITH EXISTING PAVEMENTS. A CONSTRUCTION TOLERANCE OF 3mm FOR VERTICAL DIFFERENCES IS ALLOWABLE OR 5mm WHERE EDGES ARE ROUNDED OR BEVELLED. GAPS MUST NOT EXCEED 5mm IN WIDTH.
- ALL SURFACES TO BE FREE DRAINING AT ALL TIMES.
- THE CONTRACTOR SHALL UNDERTAKE PROOF ROLLING OF THE COMPACTED EARTHWORKS AT DESIGN SUBGRADE LEVEL AND OF THE COMPACTED SUBBASE/ BASE MATERIAL AT TOP OF SUBBASE AND TOP OF BASE. PROOF ROLLING SHALL BE PROVIDED BY PEDESTRIAN ROLLER AND INTENSITY OF LOADING OF AT LEAST 7 TONNE PER METRE WIDTH ROLLER OR EQUIVALENT
- 5. IN-SITU DENSITY TESTS SHALL BE UNDERTAKEN ON ALL LAYERS OF PAVEMENT MATERIAL INCLUDING SUBGRADE, SUB BASE AND BASE
- FILL MATERIAL FOR PAVEMENT FORMATIONS BELOW SELECT MATERIAL ZONE SHALL COMPRISE CLEAN FILL FREE OF CONTAMINANTS, WELL GRADED, GRANULAR, BE FREE FROM STONES LARGER THAN 75mm MAXIMUM DIMENSION, AND HAVE 4 DAYS SOAKED CBR > 15% COMPACTED TO 98% SMDD AT +/-2% OPTIMUM MOISTURE CONTENT.
- TRIMMER BARS ARE TO BE PROVIDED AT ALL PENETRATIONS AND RE-ENTRANT CORNERS.
- 10mm WIDTH EXPANSION JOINTS ARE TO BE PROVIDED AT ALL INTERFACES BETWEEN CONCRETE/ PAVED SURFACES AND ADJACENT BUILDINGS OR
- 9. ASPHALT PAVEMENTS
 - a. AC SHALL COMPLY WITH ROADS AND MARITIME SPECIFICATION R117 & R106 AND AS 2734 AND THE CURRENT ROADS AND MARITIME SPECIFICATIONS.
 - b. PRIMERS SHALL CONSIST OF PRIMING CLASS CUT-BACK BITUMEN, COMPLYING WITH AS 2157 AND ROADS AND MARITIME SPECIFICATION PART 3261. PRIMERS ARE TO BE APPLIED BY MECHANICAL SPRAYER. SMALL AREAS MAY BE HAND SPRAYED WITH ATTACHMENT TO THE MECHANICAL SPRAY EQUIPMENT. APPLICATION IS TO BE IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE NATIONAL ASSOCIATION OF AUSTRALIAN STATE ROAD
 - AUTHORITIES (NAASRA) PUBLICATION "PRINCIPLES AND PRACTICE OF BITUMINOUS SURFACING, VOLUME 1, SPRAYED WORK", CARE SHALL BE TAKEN TO AVOID OVER-SPRAYING OF ADJACENT CONCRETE SURFACES. OVER-SPRAY SHALL BE REMOVED AND THE SURFACE RETURNED TO THE EQUIVALENT CONDITION PRIOR TO SPRAYING.
- 12. ALL BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH ROADS AND MARITIME FORM 3051 COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST FOR 50m3 OF BASE COURSE MATERIAL PLACED.
- ALL SUB-BASE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH ROADS AND MARITIME FORM 3051 AND 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m3 OF SUB-BASE COURSE MATERIAL PLACED.
- 14. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH ROADS AND MARITIME FORM 3051 AND 3051.1 WILL BE CONSIDERED, SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF THE SUPERINTENDENT. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.

SID (SAFETY IN DESIGN)

CONTRACTOR TO BE AWARE EXISTING SERVICES ARE LOCATED WITHIN THE SITE. LOCATION OF ALL SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORKS. CONTRACTOR TO CONFIRM WITH RELEVANT AUTHORITY REGARDING MEASURES TO BE TAKEN TO ENSURE SERVICES ARE PROTECTED OR PROCEDURES ARE IN

PLACE TO DEMOLISH AND/OR RELOCATE.

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CONTRACTOR TO BE AWARE EXISTING STRUCTURES MAY EXIST WITHIN THE SITE. TO PREVENT DAMAGE TO EXISTING STRUCTURE(S) AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING STRUCTURE(S), UNDERMINING AND EXISTING BUILDING ZONE OF INFLUENCE MUST BE CONSIDERED PRIOR TO ANY EXCAVATION.

EXISTING TREES

EXISTING STRUCTURES

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CONTRACTOR TO BE AWARE EXISTING TREES EXIST WITHIN THE SITE WHICH NEED TO BE PROTECTED. TO PREVENT DAMAGE TO TREES AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING TREES. ADVICE NEEDS TO BE SOUGHT FROM ARBORIST AND/OR LANDSCAPE ARCHITECT ON MEASURES REQUIRED TO PROTECT TREES.

GROUNDWATER

CONTRACTOR TO BE AWARE GROUND WATER LEVELS ARE CLOSE TO EXISTING SURFACE LEVEL. WHERE REQUIRED TEMPORARY DE-WATERING SHALL BE UNDERTAKEN AT THE CONTRACTOR'S EXPENSE

EXCAVATION

DEEP EXCAVATIONS DUE TO SEWER DRAINAGE WORKS IS REQUIRED. CONTRACTOR TO ENSURE SAFE

WORKING PROCEDURE ARE IN PLACE FOR WORKS. ALL EXCAVATIONS TO BE FENCED OFF AND BATTERS ADEQUATELY SUPPORTED TO APPROVAL OF GEOTECHNICAL ENGINEER.

GROUND CONDITIONS

CONTRACTOR TO BE AWARE OF THE SITE GEOTECHNICAL CONDITIONS. REFER TO GEOTECHNICAL REPORT FOR DETAILS.

HAZARDOUS MATERIALS

EXISTING ASBESTOS PRODUCTS AND CONTAMINATED MATERIAL MAY BE PRESENT ON SITE. CONTRACTOR TO ENSURE ALL HAZARDOUS MATERIALS ARE IDENTIFIED PRIOR TO COMMENCING WORKS. SAFE WORKING PRACTICES AS PER RELEVANT AUTHORITY TO BE ADOPTED AND APPROPRIATE PPE TO BE USED WHEN HANDLING ALL HAZARDOUS MATERIALS. REFER TO GEOTECHNICAL/ENVIRONMENTAL REPORT FOR DETAILS. REFER TO UNIVERSITY OF SYDNEY FOR FURTHER DETAILS.

CONFINED SPACES

CONTRACTOR TO BE AWARE OF POTENTIAL HAZARDS DUE TO WORKING IN CONFINED SPACES SUCH AS STORMWATER PITS, TRENCHES AND/OR TANKS. CONTRACTOR TO PROVIDE SAFE WORKING METHODS AND USE APPROPRIATE PPE WHEN ENTERING CONFINED SPACES.

CONTRACTOR TO BE AWARE MANUAL HANDLING MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ENSURE MANUAL HANDLING PROCEDURES AND ASSESSMENTS ARE IN PLACE PRIOR COMMENCING WORKS.

TO FOOTPATHS AND ROADWAYS. CONTRACTOR TO ERECT

WATER POLLUTION

CONTRACTOR TO ENSURE APPROPRIATE MEASURES ARE TAKEN TO PREVENT POLLUTANTS FROM CONSTRUCTION WORKS CONTAMINATING THE SURROUNDING ENVIRONMENT. SITE ACCESS/EGRESS

CONTRACTOR TO BE AWARE SITE WORKS OCCUR IN CLOSE PROXIMITY

AND PUBLIC. VEHICLE MOVEMENT CONTRACTOR TO SUPPLY AND COMPLY WITH TRAFFIC MANAGEMENT PLAN AND PROVIDE ADEQUATE SITE TRAFFIC CONTROL INCLUDING A

CERTIFIED TRAFFIC MARSHALL TO SUPERVISE VEHICLE MOVEMENTS

APPROPRIATE BARRIERS AND SIGNAGE TO PROTECT SITE PERSONNEL

WHERE NECESSARY CAMPUS INFRASTRUCTURE AND SERVICES

ALL WORK MUST BE UNDERTAKEN IN ACCORDANCE WITH CIS GUIDELINES AND REQUIREMENTS, CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE PRIOR TO ANY WORKS COMMENTING ON SITE.

DRAINAGE

- 1. THE LOCATION AND LEVEL OF ALL SERVICES WHICH CROSS PROPOSED DRAIN LINES MUST BE CONFIRMED PRIOR TO CONSTRUCTION AND BE CHECKED FOR CONFLICT. ANY CONFLICTS TO BE RESOLVED PRIOR TO COMMENCING WORKS.
- WHERE A CONNECTION IS TO BE MADE TO AN EXISTING DRAINAGE PIPE OR STRUCTURE, THE LEVEL OF THAT PIPE OR STRUCTURE MUST BE CONFIRMED PRIOR TO THE CONSTRUCTION OF THE NEW DRAIN LINE.
- DRAINAGE LINES ARE TO BE LAID AT A MINIMUM GRADE OF 0.5% OR AS OTHERWISE SHOWN ON THE LONGITUDINAL SECTIONS. INSTALLATION, BEDDING AND BACKFILLING OF ALL DRAINAGE PIPES SHALL
- BE IN ACCORDANCE WITH ROADS AND MARITIME MD.R11.A01.B HS3 UNO. PIPES SHALL BE CONNECTED TO PITS SUCH THAT THE PIPE IS CENTRED
- ON THE PIT FACE. 6. SURFACE LEVELS FOR PITS AND MANHOLES SHALL BE THE CENTRE OF THE STRUCTURES, UNLESS SHOWN OTHERWISE ON DETAIL PLANS OR
- ROADS AND MARITIME/ COUNCIL STANDARD DRAWINGS. ALL EXPOSED EDGES ARE TO HAVE 20mm x 20mm CHAMFER. GRATE FRAME MUST PROVIDE FIRM SUPPORT TO ALL SIDES ENSURING
- GRATES ARE SECURE. ALL GRATES IN ROADWAYS ARE TO BE CLASS D, BICYCLE TYRE PENETRATION RESISTANT IN ACCORDANCE WITH CLAUSE 3.3.6 OF AS 3996:2005, UNO. ALL GRATES IN FOOTWAYS ARE TO BE CLASS D AND
- HEELSAFE, UNO. 10. ALL PITS ARE TO BE PRECAST CONCRETE, CONSTRUCTED TO AS 3500.3, BENCHED AND STREAMLINED, UNO. PITS OVER 1.2m IN DEPTH TO BE PROVIDED WITH STEP IRONS IN ACCORDANCE WITH AS 1657. REFER TO ROADS AND MARITIME DRAWING MD.R11.B47.B FOR DETAILS. INSTALL PIPEWORK WITH MINIMUM 20mm FALL ACROSS PITS. MAXIMUM PIT DEPTH

J K

11. PIPE JOINT TO BE PROVIDED 600mm FROM EXTERNAL FACE OF STORMWATER PITS FOR PIPES ≤ 450mm. FOR PIPES > 450mm, PIPE JOINT IS TO BE PROVIDED 1200mm FROM FACE OF STORMWATER PITS.

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12. ALL GRATED DRAINS, PITS AND PROPRIETARY PRODUCTS ARE TO BE INSTALLED TO THE MANUFACTURER'S SPECIFICATIONS. DESIGNATED PRODUCTS CAN BE SUBSTITUTED WITH EQUIVALENT PRODUCTS, BUT MUST FIRST BE SUBMITTED TO THE UNIVERSITY FOR APPROVAL.

ELECTRICAL

- THE CONTRACTOR SHALL AND CHECK AND INVESTIGATE ALL EXISTING SERVICES WITHIN THE FOOTPRINT OF THE NEW BUILDING AND IN SURROUNDING AREAS TO DETERMINE THE AFFECT DUE THE NEW BUILDING'S WORKS.
- 2. CONTRACTOR TO IDENTIFY ALL EXISTING UNDERGROUND CABLING IN THE WORKS AREA WHICH MAY CONSIST OF CABLING FOR:
- STREET LIGHTING:
- CABLING SUPPLYING THE EXISTING BUILDING/S WHICH ARE TO BE DEMOLISHED;
- CABLING RETICULATING THROUGH THE WORKS AREA; AND ANY OTHER CABLING NOT SHOWN ON THE SURVEY DRAWINGS (IF
- THE CONTRACTOR SHALL MAKE SAFE, DISCONNECT AND REMOVE ALL
- ELECTRICAL CABLING SUPPLYING THE EXISTING BUILDING. CONTRACTOR TO RE ROUTE EXISTING UNDERGROUND CABLING WHICH
- UNDERGROUND WORKS. THE EXISTING CABLING SHOWN ON THESE DRAWINGS ARE AS PER THE

RETICULATES THROUGH THE WORKS AREA IF AFFECTED BY THE

- CONDUCTED SITE SURVEY, CONTRACTOR TO CHECK AND CONFIRM. DESIGN RESPONSIBILITY FOR THE PROPOSED SERVICES IS SHOWN ON PLAN, THE MAIN CONTRACTOR IS RESPONSIBLE FOR CHECKING THAT DESIGN MODIFICATIONS ARE COORDINATED AND SUBMITTED TO
- UNIVERSITY OF SYDNEY FOR APPROVAL PRIOR TO COMMENCEMENT. CONTRACTOR TO PROVIDE TRENCHING AND BACKFILLING FOR THE NEW UNDERGROUND INSTALLATION. IF THERE IS ANY MAJOR DEVIATION IN THE PROPOSED ROUTE OF UNDERGROUND CABLING DUE TO SITE CONDITIONS, ADVISE THE PROJECT MANAGER.
- CONTRACTOR TO MAINTAIN THE SPECIFIED UNDERGROUND CONDUIT DEPTH IN THE TRENCH THROUGHOUT THE CONDUIT TRENCH ROUTE. FOLLOW THE GROUND GRADIENT AND OBTAIN ALL THE LANDSCAPE ELEVATIONS AND SECTIONS PRIOR TO TRENCHING AND BACKFILLING.
- CONTRACTOR TO INSTALL THE CONDUITS ENTERING A BUILDING AT A UNIFORM GRADIENT FALLING TOWARD THE PIT TO AVOID WATER FLOW FROM THE PIT TO THE INSIDE OF THE BUILDING.
- 10. CONTRACTOR TO INSTALL NEW PITS IF REQUIRED BY THE CABLE RE ROUTING WORKS. COVER OF THE PIT SHALL BE LEVEL WITH THE PROPOSED FINISHED GROUND LEVEL. REFER TO LANDSCAPE DRAWINGS FOR FINISHED GROUND LEVELS AND INSTALL THE PIT AT THE MOST APPROPRIATE LOCATION.
- 11. CONTRACTOR TO ALLOW FOR THE PIT CLASS TO SUIT THE PIT INSTALLATION AREA.
- 12. CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES WORKING ON THE ENABLING WORKS.
- 13. CONTRACTOR TO ALLOW FOR A PIT ON EVERY CONDUIT CHANGE OF DIRECTION OR EVERY 50MTRS STRAIGHT LENGTH. ALLOW FOR LONG SWEEP BENDS IF REQUIRED.
- 14. CONTRACTOR TO PROVIDE AS INSTALLED DRAWINGS AS REQUIRED BY THE UNIVERSITY OF SYDNEY.
- 15. CONTRACTOR TO ENSURE ALL APPROPRIATE SAFETY MEASURES ARE PROVIDED FOR OPEN TRENCHES AND PITS. 16. CONTRACTOR TO MAINTAIN MINIMUM CLEARANCE REQUIRED BY THE
- STANDARDS BETWEEN THE ELECTRICAL AND COMMUNICATION SERVICES. 17. FOR ANY NEW UNDERGROUND CONDUITS, CONTRACTOR TO COORDINATE

WITH THE NEW BUILDING'S WORKS TO KEEP THE CONDUITS CLEAR OF THE

FOOTPRINT OF THE NEW BUILDING. 18. CONTRACTOR TO REINSTATE FINISHES - ROADS, FOOTPATHS, LANDSCAPING ETC. IN ACCORDANCE WITH THE DETAILS PROVIDED AND THE UNIVERSITY OF SYDNEY REQUIREMENTS.

SUSTAINABILITY

THE CIVIL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE UNIVERSITY OF SYDNEY'S SUSTAINABILITY FRAMEWORK, REFER TO NDY "SUSTAINABILITY FRAMEWORK" REPORT FOR REQUIREMENTS

THE UNIVERSITY OF SYDNEY CIS

EXCAVATION STANDARD CIS HYDRAULICS STANDARD PERMIT TO DIG FORM

ROADS AND MARITIME MODEL DRAWINGS

INSTALLATION OF BURIED CONCRETE PIPES TYPE HS3 MD.R11.A01.B

SUPPORT **GULLY PIT TYPE SA** MD.R11.B01.A.1

MD.R11.B03.A.1 PRECAST CONCRETE LINTELS FOR TYPE SA GULLY PITS

SA GRATE AND FRAME (SMALL) MD.R11.B05.A.2 PITS - INSPECTION MD.R11.B40.A.1

MD.R11.B47.B INDIVIDUAL RUNG LADDER (STEP IRONS)

R33 TRENCH DRAINS PAVEMENT MARKING R141

FOR DRAINAGE PITS

ROADS AND MARITIME SPECIFICATIONS

STORMWATER DRAINAGE R23 PLASTIC FLEXIBLE PIPES

SYDNEY WATER DEEMED TO COMPLY DRAWINGS

DTC-2000 MAINTENANCE HOLES CONSTRUCTION NOTES

MISCELLANEOUS DETAILS

DTC-2120 DN100 PVC-U - PROPERTY CONNECTION SEWER FOR SINGLE PROPERTY DTC-2251 MAINTENANCE HOLES - PRECAST DN1050 - DN1200 NOTES, **INSTRUCTIONS & DRAWING LIST**

DTC-2252 DN1050 MAINTENANCE HOLES - PRECAST FOR DN150 - DN225 SEWERS <6M DEEP GENERAL ARRANGEMENT</p>

DTC-2255 MAINTENANCE HOLES - PRECAST RING SPACERS AND DN1050

STRAIGHT BACK TAPER PLAN AND REINFORCEMENT DETAILS DTC-2256 MAINTENANCE HOLES - PRECAST DN1050 AND DN1200 SHAFT RING

DTC-2257 DN1050 & DN1200 MAINTENANCE HOLES - PRECAST BASE SLAB FOR DN150 - DN225 SEWERS GENERAL PLAN AND REINFORCEMENT

DTC-2259 MAINTENANCE HOLES - PRECAST PIPEWORK PENETRATION DETAILS DTC-2259 MAINTENANCE HOLES - PRECAST PRECAST COMPONENTS

DTC-2262 MAINTENANCE HOLES - PRECAST DN1050 AND DN1200 SCHEDULE

EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR IS TO INFORM ALL BUILDERS AND SUB CONTRACTORS OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO ROADWAYS AND WATERWAYS.
- THE CONTRACTOR IS TO IMPLEMENT AN APPROPRIATE ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SPILL/ POLLUTION CONTAINMENT AND TREATMENT PROCEDURES. THE CONTRACTOR IS TO ENSURE THAT ANY SPILL/POLLUTION COLLECTED IN THE STORMWATER SUMP IS IMMEDIATELY TREATED.
- WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, i.e. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED
- STRUCTURE. ALL SOIL AND WATER CONTROL MEASURES IN ACCORDANCE WITH LANDCOM'S SOIL AND CONSTRUCTION MANUAL VOLUME 1, MARCH 2004.
- ('BLUE BOOK'). WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE;
 - a. INSTALL SOIL AND WATER MANAGEMENT WORKS. STRIP AND STOCKPILE TOPSOIL AND ALSO SCARIFY AND REMOVE
 - EXISTING BITUMEN SURFACING.
 - c. CARRY OUT BULK EARTHWORKS. d. TOPSOIL AND REHABILITATE WHERE REQUIRED IMMEDIATELY AFTER COMPLETION.
 - e. UNDERTAKE REMAINING SITE WORKS IN ACCORDANCE WITH ENGINEERING PLANS
 - f. REMOVE SOIL AND WATER MANAGEMENT WORKS NOT REQUIRED FOR OTHER STAGES OF CONSTRUCTION ONCE UPSTREAM SURFACES ARE STABILISED TO THE SATISFACTION OF THE
- DUST CONTROL MEASURES SHALL BE IMPLEMENTED CONTINUOUSLY DURING CONSTRUCTION WORKS TO THE SATISFACTION OF THE
- SUPERINTENDENT. STOCKPILE LOCATIONS TO BE DEPENDENT ON THE LOAD OUT LOCATION AND THE POINT OF EXCAVATION. STOCKPILE LOCATIONS TO BE MARKED
- ON THE SITE PLAN AT THE SITE OFFICE AS THE PROJECT PROGRESSES. THE CONTRACTOR SHALL MAINTAIN A LOG BOOK DETAILING:

SUPERINTENDENT.

- RECORDS OF ALL RAINFALL (i.e. DAILY RAINFALL)
- CONDITION OF SOIL AND WATER MANAGEMENT CONTROL MEASURES. ANY ADDITIONAL REMEDIAL WORKS REQUIRED. THE LOG BOOK SHALL BE MAINTAINED ON A WEEKLY BASIS AND BE MADE

AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. THE ORIGINAL

- LOG BOOK SHALL BE ISSUED TO THE PROJECT MANAGER AT THE COMPLETION OF THE WORKS.
- 10. CONTROL MEASURES AFFECTED BY WORKS ARE TO BE RE-ESTABLISHED PRIOR TO THE COMPLETION OF EACH DAYS WORK. 11. ALL CONTROL MEASURES ARE TO BE CLEANED AND MAINTAINED AT LEAST
- WEEKLY OR AFTER EVERY RAINFALL EVENT. 12. FOLLOWING THE COMPLETION AND RESTORATION OF SITE, THE CONTRACTOR IS TO REMOVE ALL CONTROL MEASURES
- BE HANDED OVER IN A CLEAN CONDITION AT THE COMPLETION OF THE CONTRACT MAINTENANCE PERIOD. 14. ALL STORMWATER PITS TO BE COVERED OR DROP INLET SEDIMENT TRAPS

13. PERMANENT DRAINAGE STRUCTURES INCLUDING PIPES AND PITS ARE TO

- SHALL BE PROVIDED. KERB INLET TRAPS ARE TO BE INSTALLED AFTER COMPLETION OF PAVING.
- 15. ALL SERVICE TRENCHES MUST BE FILLED IN AND COMPACTED
- IMMEDIATELY AFTER SERVICES HAVE BEEN LAID. 16. ROADS AND FOOTPATHS AFFECTED BY THE WORKS MUST BE SWEPT CLEAN DAILY. SOILS MUST BE RETAINED BEHIND CONTROL DEVICES.
- 17. CONTRACTOR MUST ENSURE THAT ALL VEHICLES LEAVING SITE ARE HOSED DOWN (OR SIMILAR) TO REMOVE SEDIMENT. 18. SITE ENTRY/ EXIT TO BE INSTALLED WITH RUMBLE GRIDS.

0 |14/11/2017 JE | MR | DC www.arup.com.au Issue Date Ву Chkd Chkd Ву Issue Date Ву Chkd

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University of Sydney Chau Chak Wing Museum **Enabling Works**

General Notes and Legend

Not to scale Drawing Status 248177 Tender Drawing No

TE-EW-ARP-0002

Issue

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