

NOTES

1.

ALL WORKS TO BE IN ACCORDANCE WITH SW TECHNICAL SPECIFICATION - CIVIL UNO.
2.

ALL PIPES/FITTINGS/VALVES/OTHER PRODUCTS TO BE IN ACCORDANCE WITH EPS 500 OR EPS 501 UNO.
3.

ALL CONSTRUCTION JOINTS TO BE SCABBLED TO EXPOSE AGGREGATE AND CLEANED WITH A WIRE BRUSH. SATURATE SURFACE WITH WATER AND REMOVE EXCESS WATER PRIOR TO CASTING.
4.

GRIND BACK EXPOSED REINFORCEMENT OR FIXINGS TO BE FLUSH WITH EXISTING CONCRETE SURFACE AND PATCH WITH 'SIKADUR31' OR APPROVED EQUIVALENT
5.

THE DESIGN IS SUITABLE FOR:

TYPE 1 PRECAST ROOF SLAB - CLASS B COVER

AREAS WITHIN PRIVATE PROPERTIES, AND PUBLIC PLACES, PEDESTRIAN MALLS AND FOOTWAYS NOT SUBJECTED TO VEHICULAR LOADING AND PREVENTED FROM ACCIDENTAL VEHICLE LOADING BY MEANS OF PHYSICAL BARRIERS (e.g. BOLLARDS, TRAFFIC BARRIERS, OR KERBS HIGHER THAN 300mm).

TYPE 2 PRECAST ROOF SLAB - CLASS D COVER

FOOTWAY AND DRIVEWAYS IN AREAS ZONED RESIDENTIAL NOT RESTRICTED TO VEHICLES, PARKLAND WITH NO RESTRICTION TO VEHICULAR ACCESS AND ROAD CARRIAGEWAYS & DRIVEWAYS WITH A TRAFFIC LOAD UP TO W80 WHEEL LOAD AND A160 AXLE LOAD.
6.

COMPETENT STRUCTURAL ENGINEER MUST COMPLETE A SITE-SPECIFIC STRUCTURAL ASSESSMENT OF THE EXISTING MAINTENANCE HOLE, INCLUDING A CONDITION ASSESSMENT PRIOR TO CONSTRUCTION, TO SATISFY THE NECESSARY LOADING AS SET OUT IN NOTE 5. FINDINGS OF STRUCTURAL ASSESSMENT MUST BE DOCUMENTED IN A REPORT. IF EXISTING MH IS FOUND TO BE UNSUITABLE FOR RAISING, CONTACT SYDNEY WATER.

7.

FOR DN375 AND DN450 SEWERS, ALL INTERNAL SURFACES (EXCLUDING BENCHING) OF MAINTENANCE HOLES MUST BE PROVIDED WITH A PROTECTIVE COATING IN ACCORDANCE WITH WSA 201 AND SYDNEY WATER SUPPLEMENT. COATING SYSTEM MUST BE CPL, EUH OR NOV.

FOR DN150 - DN300 SEWERS, ALL INTERNAL SURFACES (EXCLUDING BENCHING) OF MAINTENANCE HOLES AT THE DISCHARGE OF PUMPED FLOWS AND THE NEXT TWO MAINTENANCE HOLES DOWNSTREAM OF A PUMPED DISCHARGE MUST BE PROVIDED WITH A PROTECTIVE COATING / LINING IN ACCORDANCE WITH WSA 201 AND SYDNEY WATER SUPPLEMENT. COATING SYSTEM MUST BE CPL, EUH.
8.

CONDUCT PROTECTIVE COATING ASSESSMENT OF THE EXISTING MAINTENANCE HOLE TO ENSURE COMPATIBILITY WITH NEW PROTECTIVE COATING. INTERFACE BETWEEN NEW AND EXISTING COATING MUST BE FREE OF GAPS AND MAINTAIN INTEGRITY OF COATING SYSTEM.
9.

STEP IRONS MUST BE ADDED TO SUIT EXISTING SYSTEM WHERE NECESSARY.
10.

CONFIRM LOCATION OF EXISTING REINFORCEMENT BARS PRIOR TO DRILLING OF HOLES TO AVOID CLASHING.
11.

MINIMUM CLEAR AND UNOBSTRUCTED VERTICAL WORKING SPACE ABOVE MAINTENANCE HOLE TO BE AS FOLLOWS SUBJECT TO SITE SPECIFIC SAFETY IN DESIGN:
FOR SEWER ≤ DN300: NO ABOVE GROUND OBSTRUCTIONS WITHIN 1m OF MH ACCESS COVER
FOR SEWER > DN300: NO ABOVE GROUND OBSTRUCTIONS WITHIN ZONE OF INFLUENCE (AS DEFINED IN SYDNEY WATER TECHNICAL GUIDELINES - BUILDING OVER AND ADJACENT TO PIPE ASSETS)
12.

HEIGHT OF MAINTENANCE HOLE FROM OUTLET PIPE INVERT TO THE TOP OF MH COVER MUST NOT EXCEED 10000 mm.

13.

CONTRACTOR MUST ENSURE FLOW ISOLATION/FLOW MANAGEMENT PLAN IS APPROVED BY SYDNEY WATER AND UNDER EXECUTION PRIOR TO WORKS COMMENCING.
14.

CONTRACTOR MUST ENSURE EXISTING MAINTENANCE HOLE AND SEWER IS PROTECTED DURING CONSTRUCTION.
15.

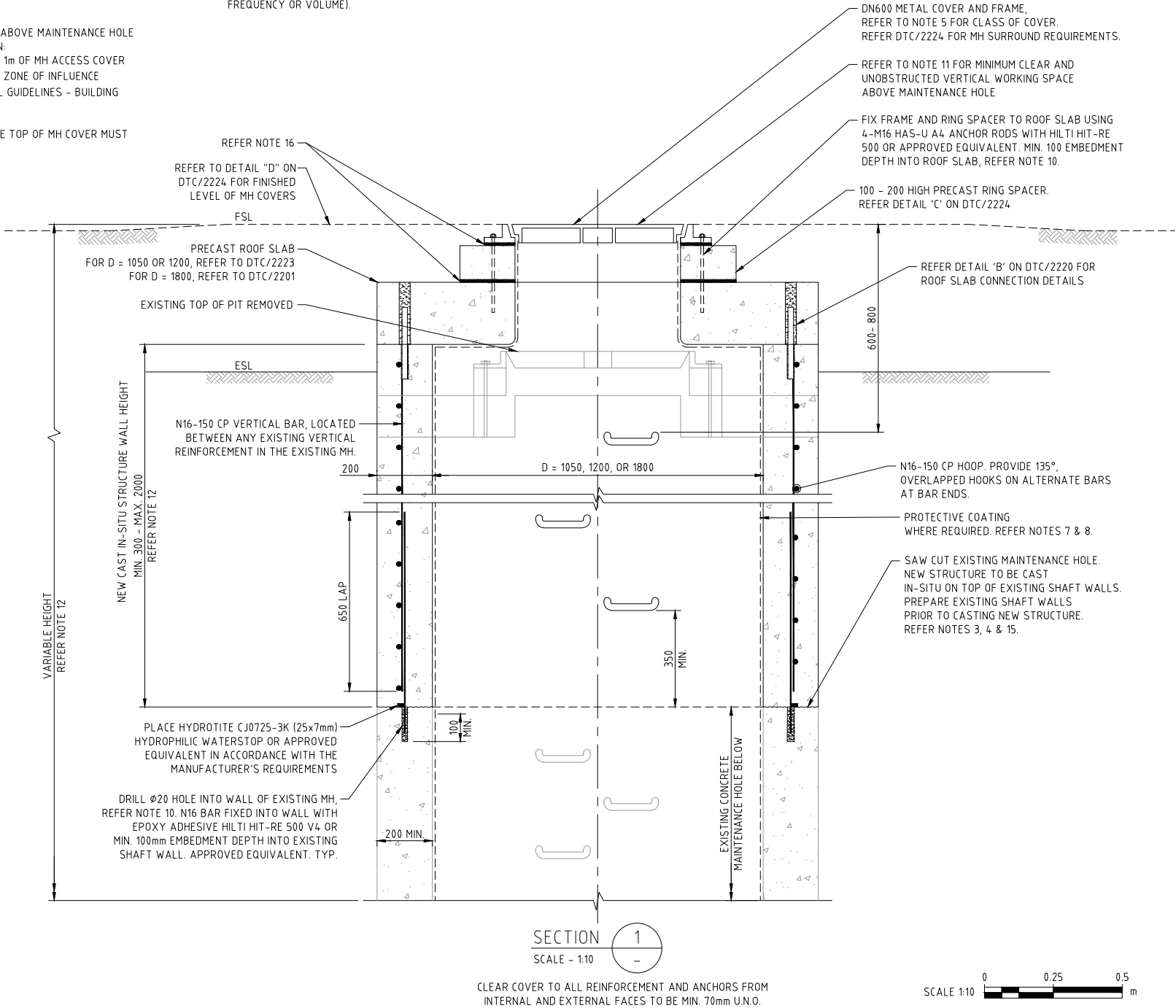
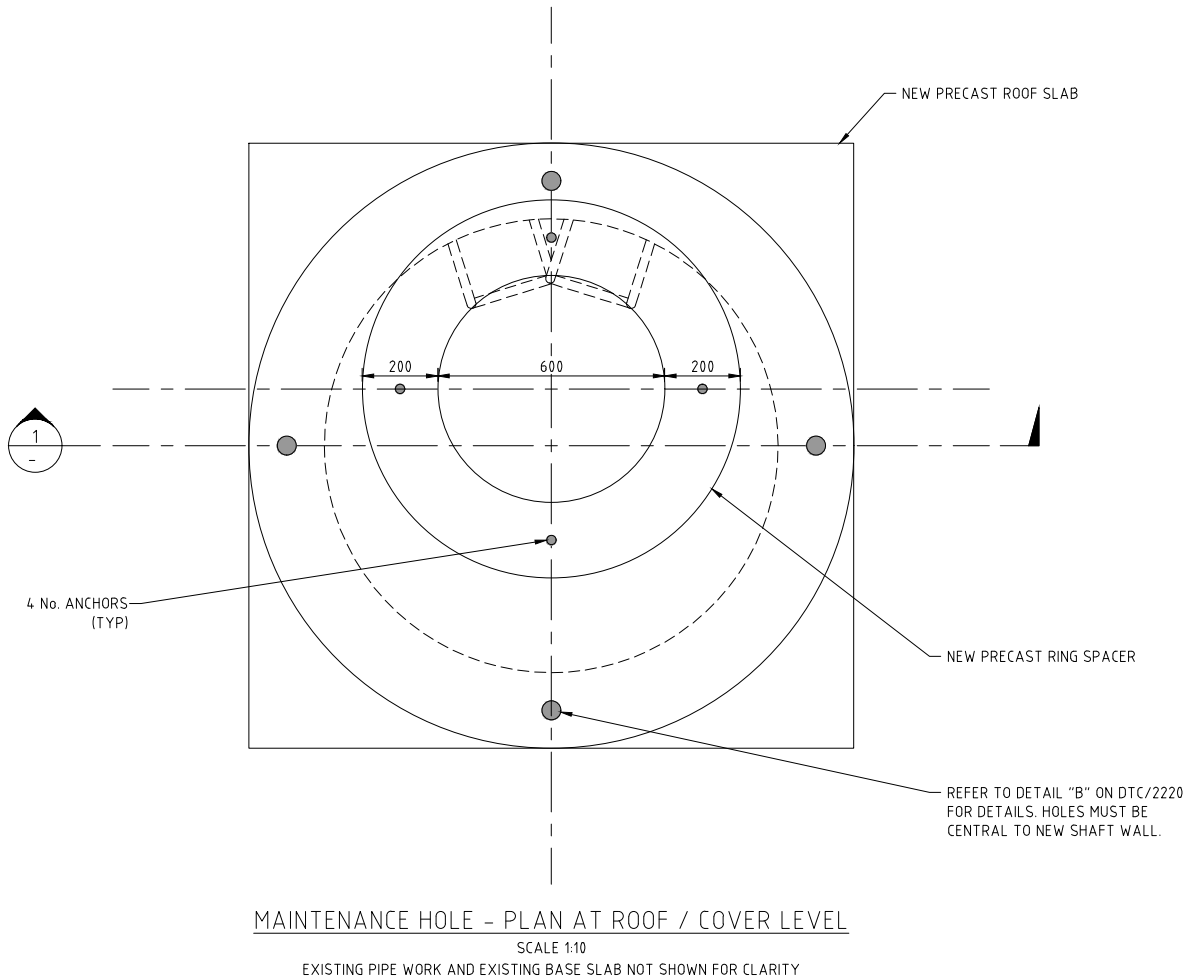
CONTRACTOR MUST LOCATE EXISTING HORIZONTAL SHAFT REINFORCEMENT CLOSEST TO DESIRED CUT HEIGHT. CUT DIRECTLY BELOW THIS REINFORCEMENT TO MAXIMISE DEPTH FOR PLACEMENT OF NEW REINFORCEMENT.
16.

10mm THICK 'SIKADUR-31' EPOXY MORTAR OR APPROVED EQUIVALENT. SCABBLE AND PRIME SURFACES WITH 'SIKADUR-32' OR APPROVED EQUIVALENT PRIOR TO APPLICATION OF EPOXY MORTAR. APPLY 'SIKADUR-31' WHILE 'SIKADUR-32' IS STILL TACKY.
17.

CONTRACTOR MUST SEEK AND RECEIVE APPROVAL FROM SYDNEY WATER PRIOR TO COMMENCING WORKS TO ENSURE THAT ANY CHANGES TO THE MAINTENANCE HOLE COVER LEVEL DO NOT HAVE ADVERSE IMPACTS ON NETWORK PERFORMANCE (E.G. OVERFLOW FREQUENCY OR VOLUME).

REFERENCE DRAWINGS

DTC/2000	MAINTENANCE HOLES - CAST IN-SITU CONSTRUCTION NOTES
DTC/2201	DN1800 MAINTENANCE HOLES CAST IN-SITU REINFORCED CONCRETE SEWERS DN500 - DN750 DEPTH TO INVERT 1.6m TO 10m
DTC/2220	MAINTENANCE HOLES DETAILS - SHEET 1
DTC/2221	MAINTENANCE HOLES DETAILS - SHEET 2
DTC/2222	MAINTENANCE HOLES DETAILS - SHEET 3
DTC/2223	DN1200 MAINTENANCE HOLES - ROOF SLAB DESIGN
DTC/2224	MAINTENANCE HOLE DETAILS - COVER AND SPACER DETAILS



Sydney
WATER

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APPROVED

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ENGINEERING MODERNISATION MANAGER

ENGINEERING & TECHNICAL SUPPORT

A
LETTER

ORIGINAL ISSUE

DETAILS OF ISSUE / AMENDMENT

NS

31/07/24

APP'D

DATE

DEEMED TO COMPLY DRAWINGS

RAISING OF EXISTING
MAINTENANCE HOLES >300mm
SEWERS ≤DN450

DTC

2231

ISSUE

A

DATE

31/07/24

SCALE 1:10
0 0.25 0.5 m