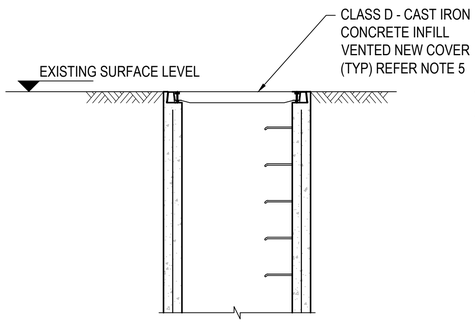
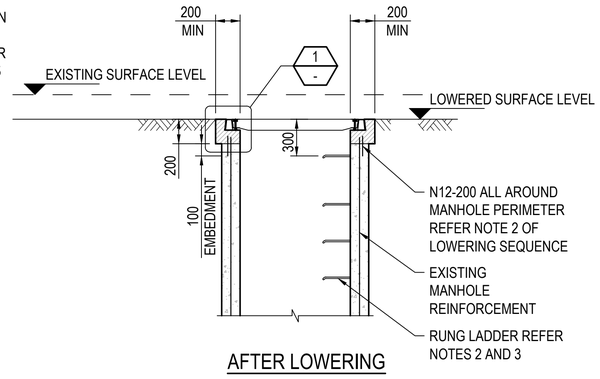


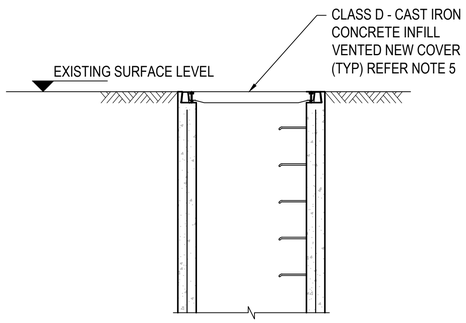
EXISTING



AFTER LOWERING

LOWERING EXISTING SHAFT SEQUENCE:

1. EXCAVATE TO 300 BELOW FINAL LEVEL.
2. REMOVE EXISTING SHAFT TO 200 BELOW FINAL LEVEL. LEAVE REINFORCEMENT PROJECTING OR ALTERNATELY DRILL AND ANCHOR N12 BARS 100mm EMBEDMENT INTO CONCRETE WALL.
3. CAST ON TOP OF WALLS TO FINAL LEVEL NEW CLASS D, REFER NOTE 5.
4. SMOOTH TROWEL CONCRETE.
5. BACKFILL TO FINAL LEVEL.



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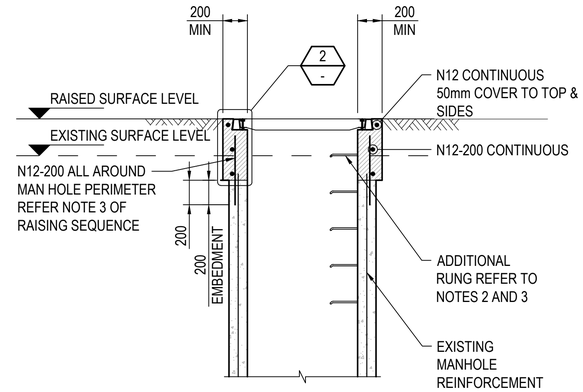


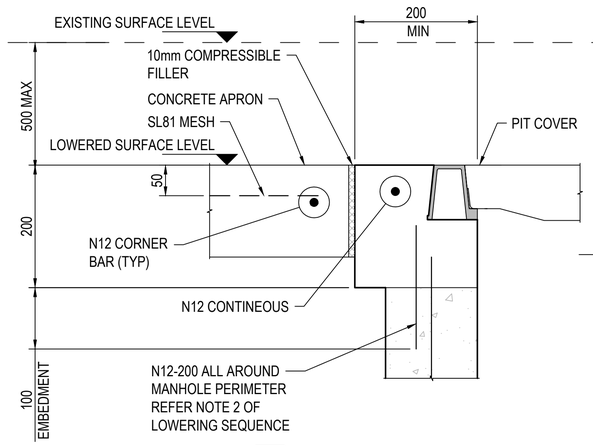
AFTER RAISING

RAISING EXISTING SHAFT SEQUENCE:

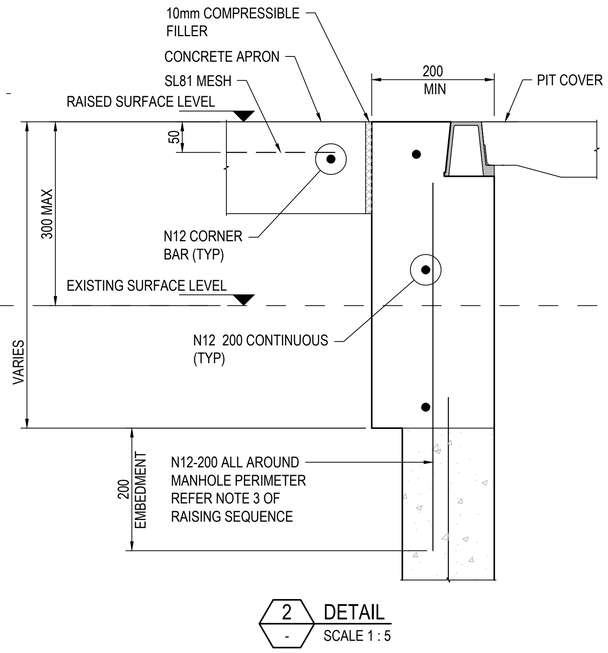
1. EXCAVATE SOIL 200 BELOW EXISTING LEVEL.
2. CUT WALLS OFF SHAFT AT UNDERSIDE OFCOVER FRAME.
3. DRILL N12 AT 200 EMBEDMENT INTO SHAFT WALL.
4. FORM UP WALL 200 WIDE AT FINAL LEVEL AND CAST IN NEW CLASS D COVER FRAME, REFER NOTE 5.
5. BACKFILL TO FINAL LEVEL.

NOTES:

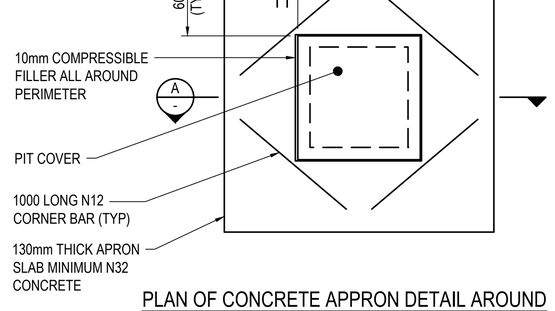
1. LOWERING/RAISING EXISTING MANHOLE COVERS SHALL BE WITHIN -500 AND +300mm MAXIMUM. FOR LOWERING AND RAISING OUTSIDE PROVIDED RANGE, MANHOLES TO BE ASSESSED BY STRUCTURAL ENGINEER.
2. THE RESULTANT DISTANCE FROM TOP OF MANHOLE TO THE FIRST STEP TO BE EVALUATED & ADDITIONAL RUNGS TO BE PROVIDED IN CONJUNCTION WITH MELBOURNE WATER APPROVAL.
3. PROVIDE NEW STEP IRONS IN CASE EXISTING STEP IRONS DO NOT COMPLY WITH DRG 7251/08/416 AS A RESULT OF LOWERING OR RISING MANHOLE COVERS.
4. THE REQUIRED LOAD CAPACITY OF THE COVER/MANHOLE SHALL BE ASSESSED FOR ANY CHANGED CONDITIONS.
5. PROVIDE NEW MANHOLE COVERS CLASS D CAST IRON, CONCRETE INFILL VENTED COVERS. MANHOLE COVER CLASS TO BE IN ACCORDANCE WITH AS 3996. VENTS IN COVERS TO BE FORMED IN MANUFACTURING PROCESS, NOT ON SITE.
6. BOLT DOWN COVER IN SURCHARGE SITUATIONS, SUBJECT TO MELBOURNE WATER APPROVAL.
7. IT IS THE DESIGNER'S RESPONSIBILITY TO ENSURE THAT THE NOMINATED MELBOURNE WATER STANDARD DRAWINGS ARE SUITABLE FOR PROJECT USE.
8. DESIGN ENGINEER TO CARRY OUT SAFETY IN DESIGN RISK ASSESSMENT FOR ANY DESIGN INCORPORATING MELBOURNE WATER STANDARD DRAWINGS.
9. FOR MANHOLES LOCATED IN NON-PAVED AREAS, PROVIDE 600mm CONCRETE APRON SURROUND ALL AROUND THE MANHOLE AS SHOWN IN CONCRETE APRON DETAIL PLAN.



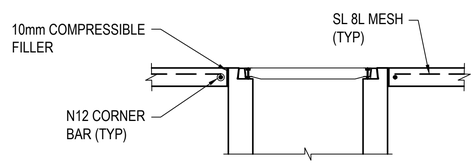
1 - DETAIL
SCALE 1 : 5



2 - DETAIL
SCALE 1 : 5



PLAN OF CONCRETE APPRON DETAIL AROUND MANHOLE / JUNCTION PIT



A - SECTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APPD	DATE
A	FIRST REVISION			RD	VY	RM	25.11.15

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Melbourne Water
DRAINAGE STANDARD DRAWINGS

DRAFTER	DESIGNER	DESIGN MANAGER APPROVAL	PROJECT MANAGER APPROVAL
RD	GT	RM	VY
DRAFTING CHECK	ENGINEERING REVIEW		
BS	VY		

TITLE **MANHOLE COVER LOWERING (UP TO 500 mm) AND RAISING (UP TO 300 mm) DETAILS**

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
SCALE NTS	A1	7251/08/417	A
		CODE MWC DRAWING NUMBER	REV