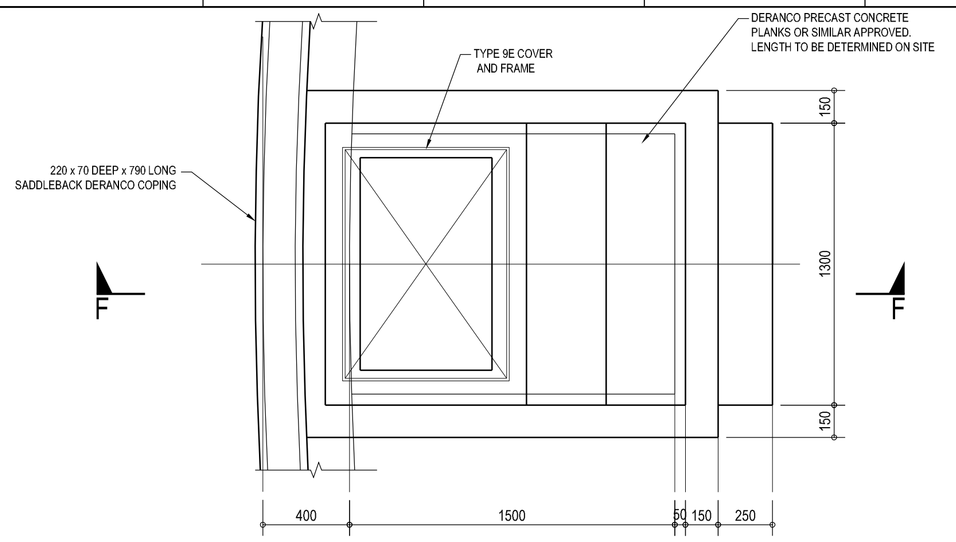
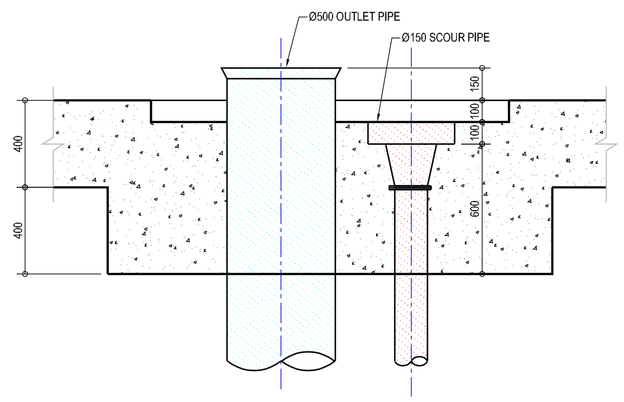


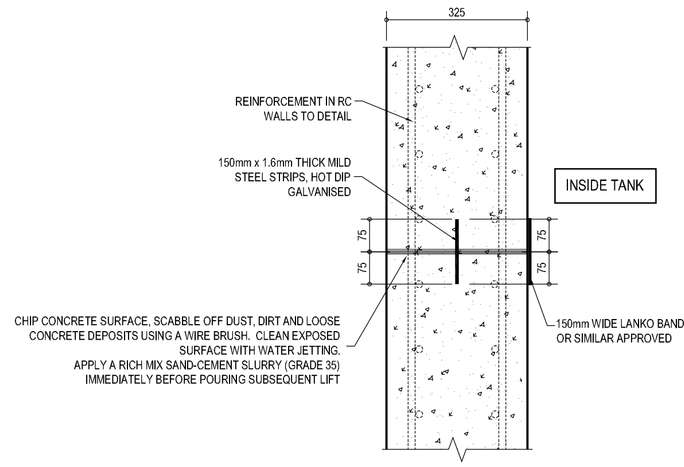
PLAN VIEW: COVER AND FRAME

SCALE: 1:20



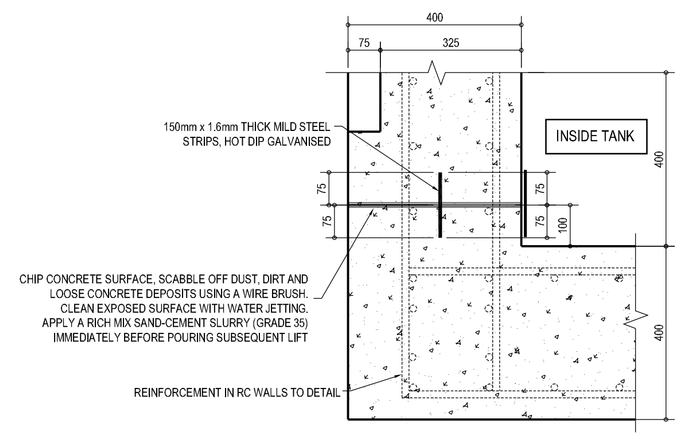
SECTION S1-S1

SCALE: 1:20



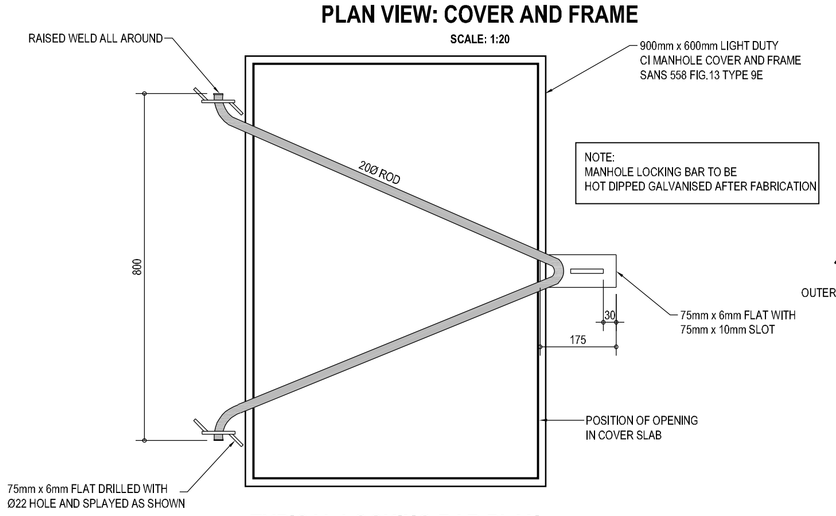
DETAIL 1 (TYPICAL) HORIZONTAL CONSTRUCTION JOINT IN WALL

SCALE: 1:10



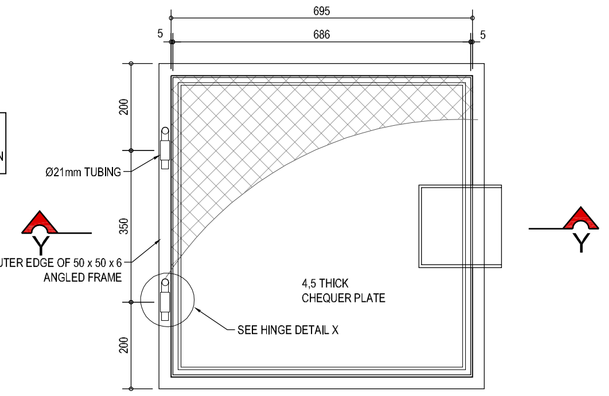
DETAIL 2 (TYPICAL) KICKER HORIZONTAL CONSTRUCTION JOINT IN WALL

SCALE: 1:10



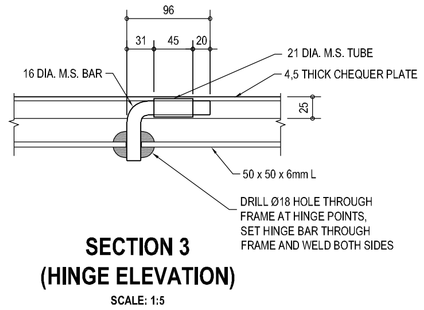
TYPICAL LOCKING BAR PLAN

SCALE: 1:10



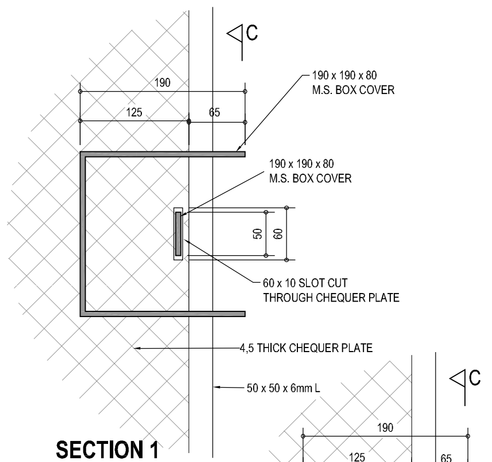
PLAN OF COVER

SCALE: 1:10



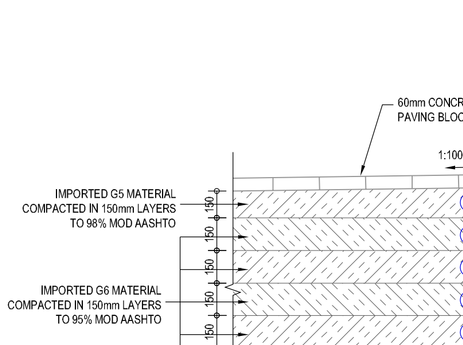
SECTION 3 (HINGE ELEVATION)

SCALE: 1:5



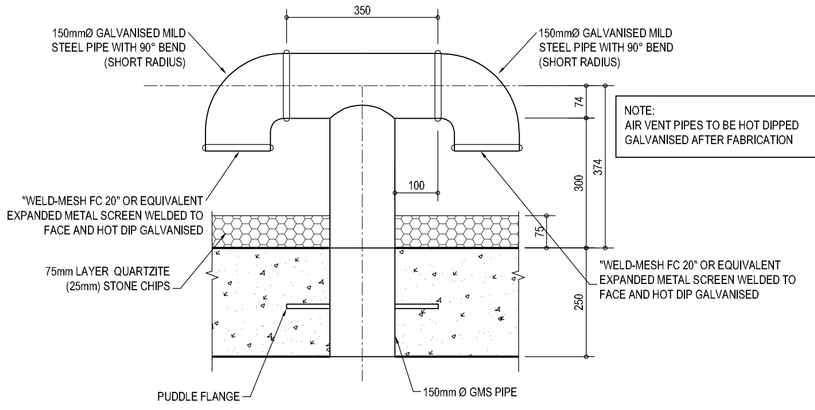
SECTION 1 (PLAN)

SCALE: 1:5



DETAIL 3: LAYERWORKS UNDER PAVING (TYPICAL)

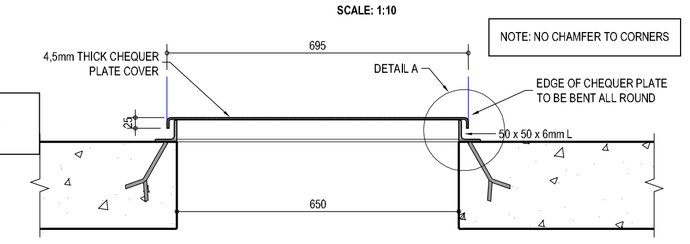
SCALE: 1:20



ROOF AIRVENT DETAIL

SCALE: 1:10

NOTE:
AIR VENT PIPES TO BE HOT DIPPED
GALVANISED AFTER FABRICATION



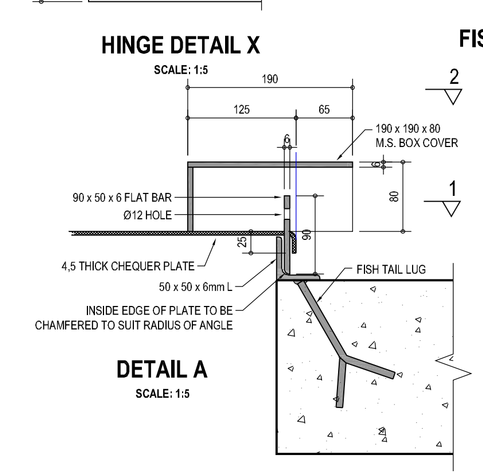
NOTE: NO CHAMFER TO CORNERS

SECTION Y-Y

SCALE: 1:10

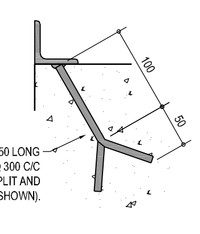
PLAN OF FRAME

SCALE: 1:10



HINGE DETAIL X

SCALE: 1:5

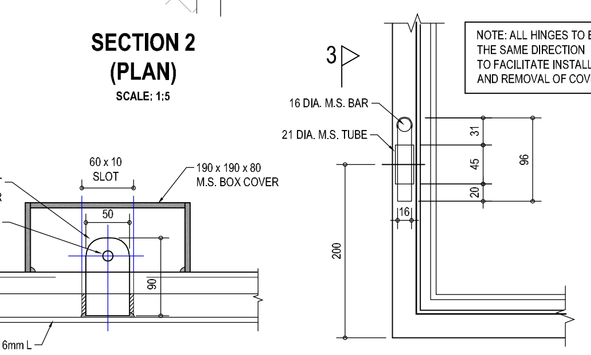


FISH TAIL DETAIL

SCALE: 1:5

DETAIL A

SCALE: 1:5



SECTION C (ELEVATION)

SCALE: 1:5

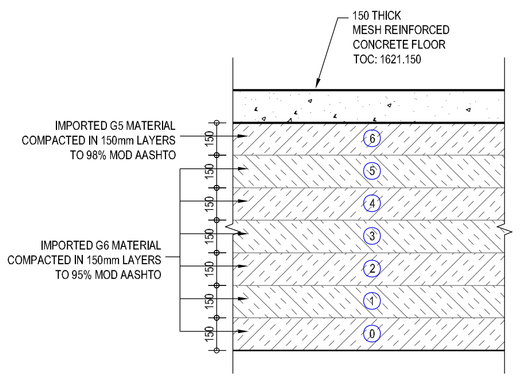
SECTION 2 (PLAN)

SCALE: 1:5

NOTE: ALL HINGES TO BE IN
THE SAME DIRECTION
TO FACILITATE INSTALLATION
AND REMOVAL OF COVER

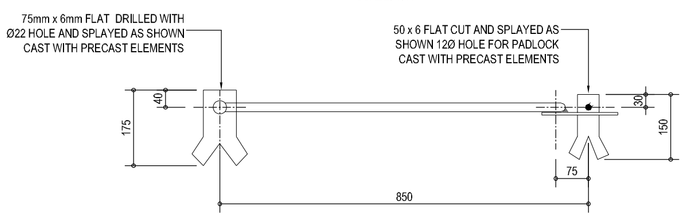
HINGE DETAIL X

SCALE: 1:5



DETAIL 4: LAYERWORKS FLOOR (TYPICAL)

SCALE: 1:20



LOCKING BAR SECTION

SCALE: 1:10

NOTE:
A. ALL PARTS TO BE HOT DIP GALVANIZED AFTER FABRICATION. MOONLOCK PADLOCK TO BE INCLUDED IN DETAIL.
B. ALL DIMENSIONS IN MILLIMETERS
C. 15mm SP x 120 (OR SIMILAR) CLOSED CELL FOAM TO BE WRAPPED AROUND ALL PIPEWORK PASSING THROUGH CONCRETE. D. FLANGE DRILLING TO BE BS 4505 TABLE 16
E. STEP IRONS TO BE AT 300mm c/c IN BOTH DIRECTIONS AND ALIGNED TO SUIT OPENINGS.

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND PROJECT SPECIFICATIONS.
2. DIMENSIONS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
4. 50mm BLINDING LAYER TO BE PLACED BELOW ALL GROUND LEVEL SLABS UNLESS OTHERWISE INDICATED.
5. ALL EXCAVATIONS TO BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONCRETE BEING PLACED.
6. ALLOWABLE BEARING PRESSURE UNDER FOUNDATIONS TBA
7. COMPACTION RESULTS OF INSITU MATERIAL UNDER STRUCTURES TO BE SUBMITTED AND APPROVED BY THE ENGINEER BEFORE CONCRETE WORKS COMMENCES.
8. CONTRACTOR TO CONFIRM LEVELS AND DIMENSIONS WITH THE ENGINEER BEFORE CONSTRUCTION.
9. ALL STEELWORK TO BE HOT DIP GALVANISED,UNLESS OTHERWISE INDICATED.
10. POSITIONS AND SIZES OF ALL HOLES, POCKETS, DUCTS, ETC. MUST BE DETERMINED ON SITE BETWEEN THE CIVIL AND MECHANICAL CONTRACTOR.
11. ALL BOLTS, WASHERS, NUTS, ETC. SHALL BE STAINLESS STEEL NOTWITHSTANDING THESE REQUIREMENTS, THE CONTRACTOR SHALL VERIFY THAT THE MATERIAL OF THE BOLTS, WASHERS AND NUTS USED WILL NOT CAUSE ANY GALVANIC ACTION BETWEEN ITSELF AND THE SURROUNDING MATERIAL. SHOULD GALVANIC ACTION BE POSSIBLE, THE CONTRACTOR SHALL PROVIDE SUITABLE NON-METALLIC SLEEVES AND WASHERS FOR SUCH BOLTS.
12. ALL CONCRETE SHALL BE OF THE FOLLOWING GRADE AND MIN. 28 DAY CUBE STRENGTH (UNLESS OTHERWISE STATED):- -
    FOUNDATION 40 MPa / 19mm
    WALLS 40 MPa / 19mm
    MASS CONCRETE 20 MPa / 19
    FLOORS 40 MPa / 19mm
13. CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS
    FOUNDATIONS 50mm
    WALLS 50mm
    FLOORS 50mm
    COLUMNS 50mm
    NOTE THAT CLEAR CONCRETE COVER MUST BE MAINTAINED BY THE USE OF CONCRETE COVER BLOCKS MANUFACTURED FROM CONCRETE WITH THE SAME STRENGTHS AS THE UNITS IN WHICH IT IS INCORPORATED ON THE BASIS OF A MINIMUM OF ONE (1) COVER BLOCK PER 0.75 SQUARE METRE.
14. ALL REINFORCEMENT SHALL COMPLY WITH SABS 920, TYPE C, CLASS 2 GRADE 1.
15. WHERE IT IS NECESSARY TO UTILIZE CONSTRUCTION JOINTS, SUCH JOINTS SHALL BE INSPECTED BY THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
16. UNLESS OTHERWISE STATED THE CORNERS OF ALL EXPOSED CONCRETE SHALL BE PROVIDED WITH A 25mm x 25mm CHAMFER.
17. THE DEGREE OF ACCURACY SHALL BE IN ACCORDANCE WITH SABS 1200 G LEVEL III
18. HAND RAILING MUST NOT BE PAINTED.
19. ALL UNFORMED SURFACES SHALL BE AS FOLLOWS:-
    FLOOR INVERTS: STEEL TROWELLED
    WALL TOPS: WOOD FLOATED
    TOP SURFACES OF FOUNDATIONS
    INSIDE STRUCTURE: STEEL TROWELLED
    TOP SURFACES OF FOUNDATIONS
    OUTSIDE STRUCTURE: WOOD FLOATED
20. ALL PIPEWORK AND FITTINGS THROUGH CONCRETE TO BE MANUFACTURED FROM uPVC WITH A MINIMUM OF 350mm LENGTH BETWEEN WALL AND SOCKET, UNLESS OTHERWISE INDICATED.
21. ALL CONCRETE SHALL BE MADE WITH ORDINARY PORTLAND CEMENT WITH 30% FLY ASH CEMENT OR SIMILAR APPROVED CEMENT EXTENDER.
22. WATER:CEMENT RATIO NOT TO EXCEED 0,5:1
23. THE CEMENT CONTENT : 325 kg/m³ -450kg/m³
24. NO OPEN FERRELS ARE PERMITTED. ALL SHUTTERS TO BE SUPPORTED USING AN APPROVED EMBEDDED BOLT SYSTEM.
25. NO FINES CONCRETE TO BE FLOATED TO SMOOTH FINISH.
26. CONCRETE CUBE TESTS TO BE TAKEN AND RESULTS TO BE SUBMITTED TIMEOUSLY TO ENGINEER FOR PERUSAL, RECORDS AND QUALITY MONITORING.
27. ALL LATANCE TO BE REMOVED FROM CONSTRUCTION JOINTS AND CLEANED THOROUGHLY.

THESE NOTES SERVE AS AN ADDENDUM TO THE SPECIFICATION IN THE BILL OF QUANTITIES (BOQ). IN THOSE CASES WHERE THE BOQ SPECIFICATIONS DIFFER FROM THESE NOTES, THESE NOTES SHALL TAKE PREFERENCE

ON ORIGINAL

0 5 10 15 20 25 30 40 50MM

Refer To Drawing No:

Key Plan:

Engineer:

KEON CONSULTING ENGINEERS
TECHNO DESIGNS
Civil Structural & Transport Engineers

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Client:

Johannesburg Water

JOHANNESBURG WATER
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Engineer:
G. Kucherera Pr Eng (20110431)

Drawn By:	Designed By:	Checked By:
A. Moodley	G. Kucherera	G. Kucherera
Signature:	Signature:	Signature:
Date: February 2022	Date: February 2022	Date: February 2022

No	Date	Revisions	Chd	Appd
T0	2023.09.14	ISSUED FOR TENDER	GK	GK

Project: JW14406 - LINBRO PARK TOWER (WITH ASSOCIATED WORKS)

Description: 3.0ML WATER TOWER: DETAILS (9 OF 9)

Issued For: TENDER

Size:	Scale:	Sheet No:	Original Date:
A1	As Shown	9 OF 9	February 2022

Project No:	Drawing No:	Revision:
C01486	SC-09	T0