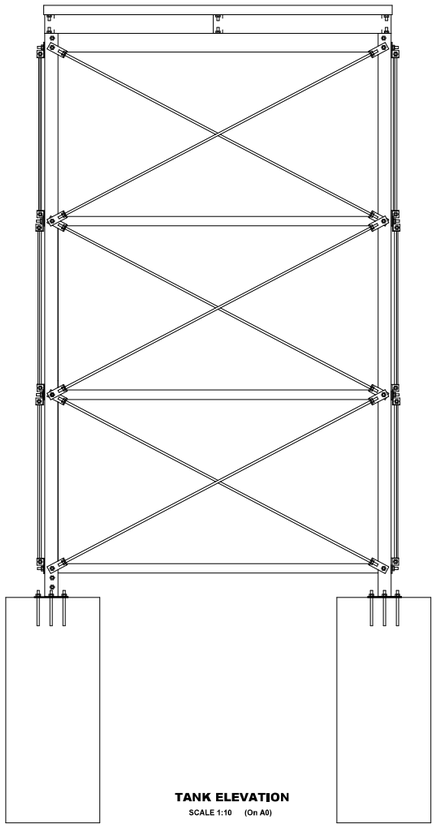
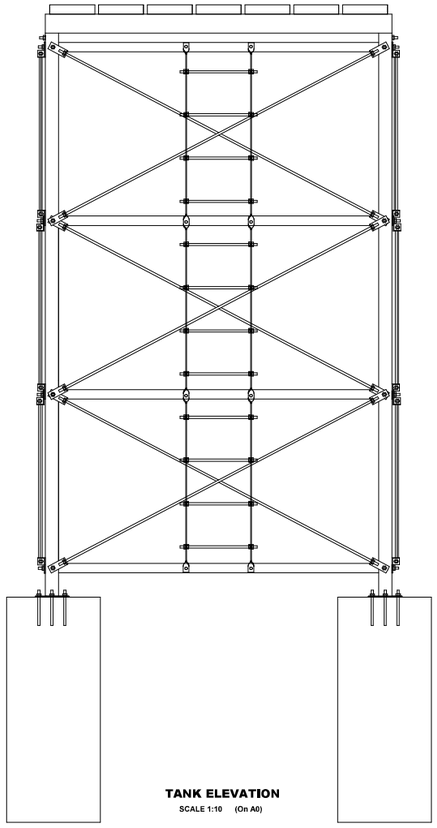
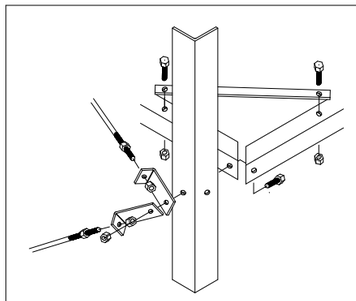


TANK ELEVATION
SCALE 1:10 (On A0)



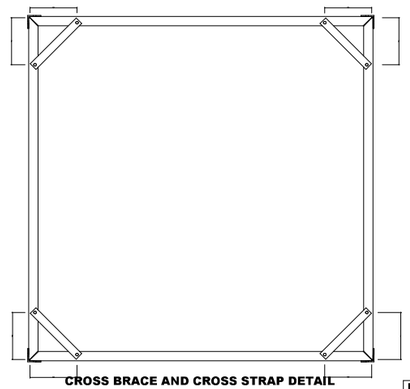
TANK ELEVATION
SCALE 1:10 (On A0)



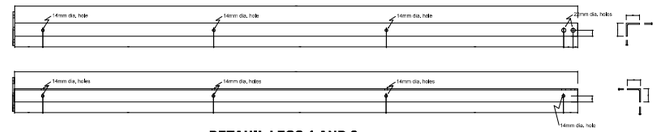
ASSEMBLY OF CROSS BRACES, TIE RODS AND CORNER STRAPS

COMPONENT LIST

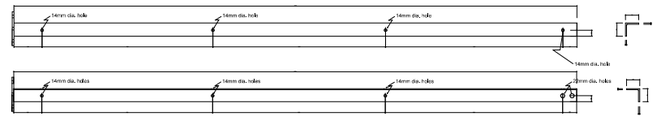
Components	Size	Quantity
Main legs	Angle iron 70 * 70 * 6mm of 3000mm in length	4
Base Plate	Mild steel flat plat 180 * 180 * 10mm thick	4
Cross Brace	Angle iron 50 * 50 * 5mm of 1820mm in length	16
Bolt: Cross Brace - Tierod	M12 * 45mm with nut and spring washer	32
Tie Rods	M12 with 100mm thread at each side at 1930mm length with 4 nuts each	24
Tie Rod Brackets	Flat bar 30 * 5mm at 130mm lengths with a 30mm 90 degree bend	24
Cross Straps for corners	Flat bar 30 * 5mm at 345mm lengths	12
Bolt for Cross Straps	M12 * 25mm with nut and spring washer	24
Bottom channel for platform channel	Lipped Channel 100 * 50 * 20 * 3mm at 1846mm length	2
Bolt for bottom channel	M20 * 40mm length with nut and spring washer	8
Platform Channel	Lipped Channel 100 * 50 * 20 * 3mm at 1846mm length	3
Bolt for platform channel	M12 * 25mm with nut and spring washer	6
Platform Timber	Timber 240 * 50 mm at 1900mm length	7
Bolt for platform timber	M10 * 75mm length with nut and spring washer	14
Ladder leg	Flatbar 30 * 5mm twisted at 90 degree at every cross brace	2
Ladder step	M12 * 400mm length with 50mm thread both sides and 4 nuts.	12
Spacer for ladder	15mm int. dia. galv. pipe of 3mm thickness and 50mm length.	8
Bolt for ladder	M12 * 75mm with nut and spring washer.	8



CROSS BRACE AND CROSS STRAP DETAIL
SCALE 1:10 (On A0)



DETAUIL LEGS 1 AND 3
SCALE 1:10 (On A0)



DETAUIL LEGS 2 AND 4
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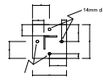
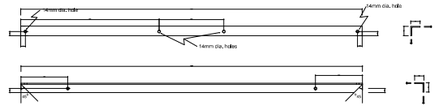
CROSS STRAP
SCALE 1:10 (On A0)



BASE PLATE
SCALE 1:10 (On A0)

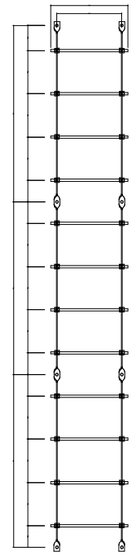


CROSS BRACE
SCALE 1:10 (On A0)

LADDER SPACER
SCALE 1:10 (On A0)

ROD BRACKET
SCALE 1:10 (On A0)

TIE ROD
SCALE 1:10 (On A0)



LADDER
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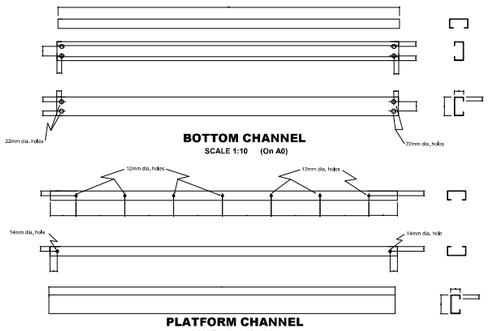
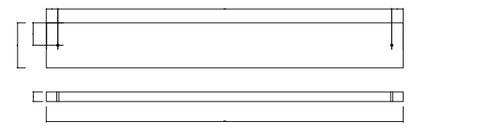
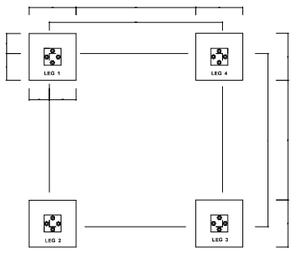


BOTTOM CHANNEL
SCALE 1:10 (On A0)

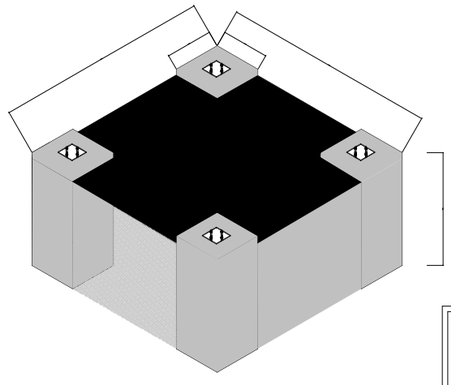
PLATFORM CHANNEL
SCALE 1:10 (On A0)



PLATFORM TIMBER
SCALE 1:10 (On A0)



BASE DETAIL
NOT TO SCALE



FOUNDATION DIMENSIONS
NOT TO SCALE

NOTE:

WORKSHOP DRAWINGS TO BE PREPARED BY CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE.

ERECTION INSTRUCTIONS

1. Prepare foundations.
2. Pour concrete. Concrete mix is 1 part cement, 2 parts sand, 4 parts stone. Ensure that foundations are 100% level and allow to cure for 7 days.
3. Tankstand is assembled horizontally on flat, level ground adjacent to the foundations, with the base closest to the foundations. Only hand tighten bolts at this stage (do not fit platform timbers at this stage).
4. Fit all cross braces, tie rods and cross straps, ensuring that the stand remains square.
5. Starting from one of the stand sides, tighten the first two tie rods on the first 1m module. (The rods are considered tight once it takes up tention).
6. Repeat step 5 on the directly opposite side.
7. Repeat step 5. first on the one remaining side, then on the other.
8. Repeat steps 5, 6 and 7 on the following 1m modules until completed.
9. All remaining bolts on the tank stand may now be tightened.
10. Fit platform timbers.
11. Tie a suitable length of tube to the two main legs just below the lowest cross brace to form a pivot.
12. Attache the pivot to two stakes driven into the ground to prevent the stand sliding forward during hauling up.
13. Attach a suitable length of rope or cable to the stand top and attach guuide ropes to serve as acnhors.
14. Raise the stand by pushing upwards on the underside and hauling on the rope or cable to get the stand upright.
15. When the stand reaches the vertical position remove the tube that served as the pivot, now the stand must be positioned in the centres of each foundation and the tank stand must be checked with a plumb to test of vertide.
16. Drill the anchor holes and fix the stand to the foundation with chemical fasteners.

	SPECIAL NOTES:				
		S KONDLO (CHIEF ENGINEER) OCTOBER 2024 (DATE APPROVED)	**DEPARTMENT OF AGRICULTURE** **PROVINCE OF THE EASTERN CAPE** ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	**MPAYIPHELI 1000 BROILER HOUSE**	SCALE NTS INDEX NO.
				ELEVATED TANK STANK	A3 ORIGINAL PLAN NO. SHEET 6 OF 8