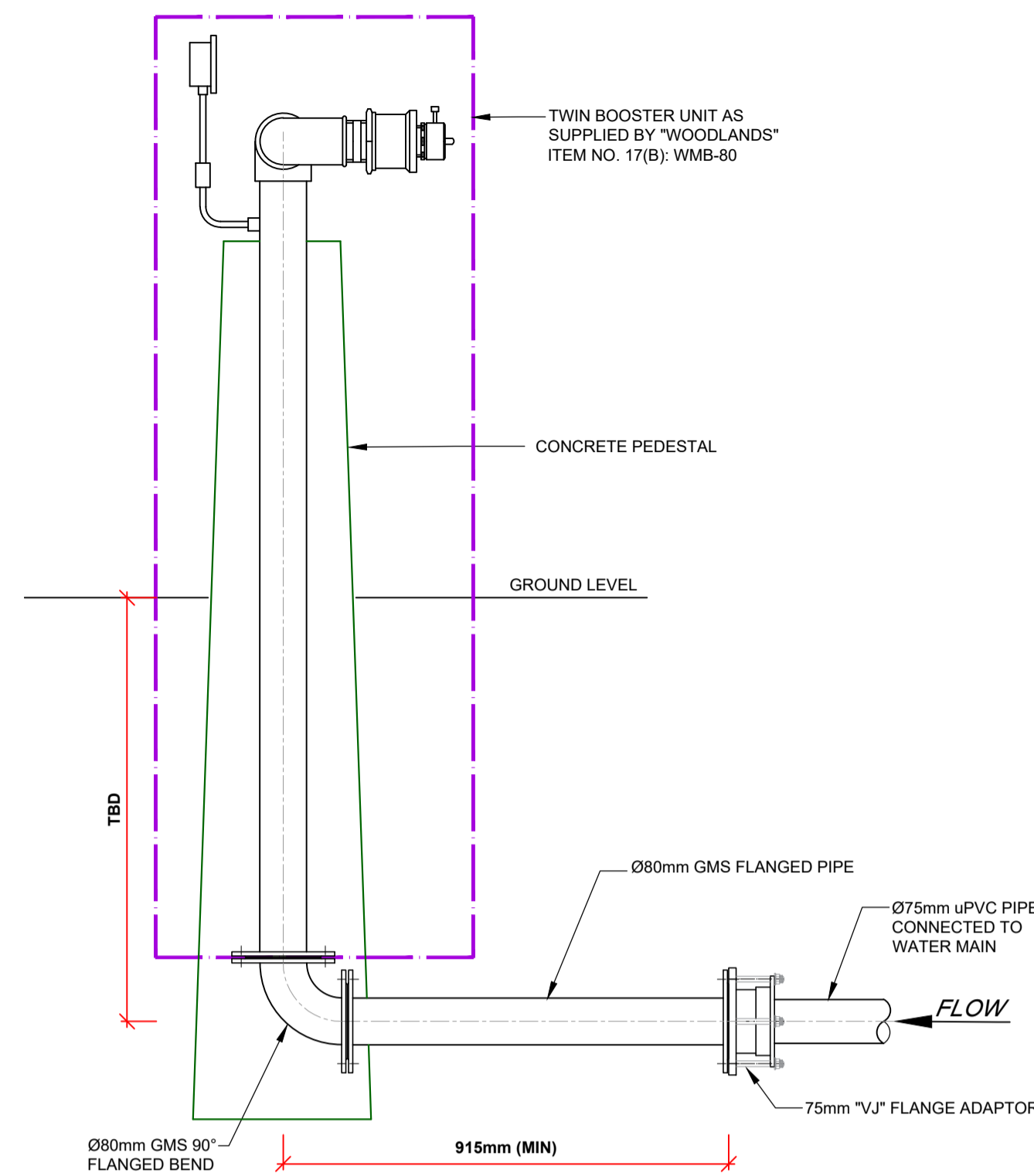


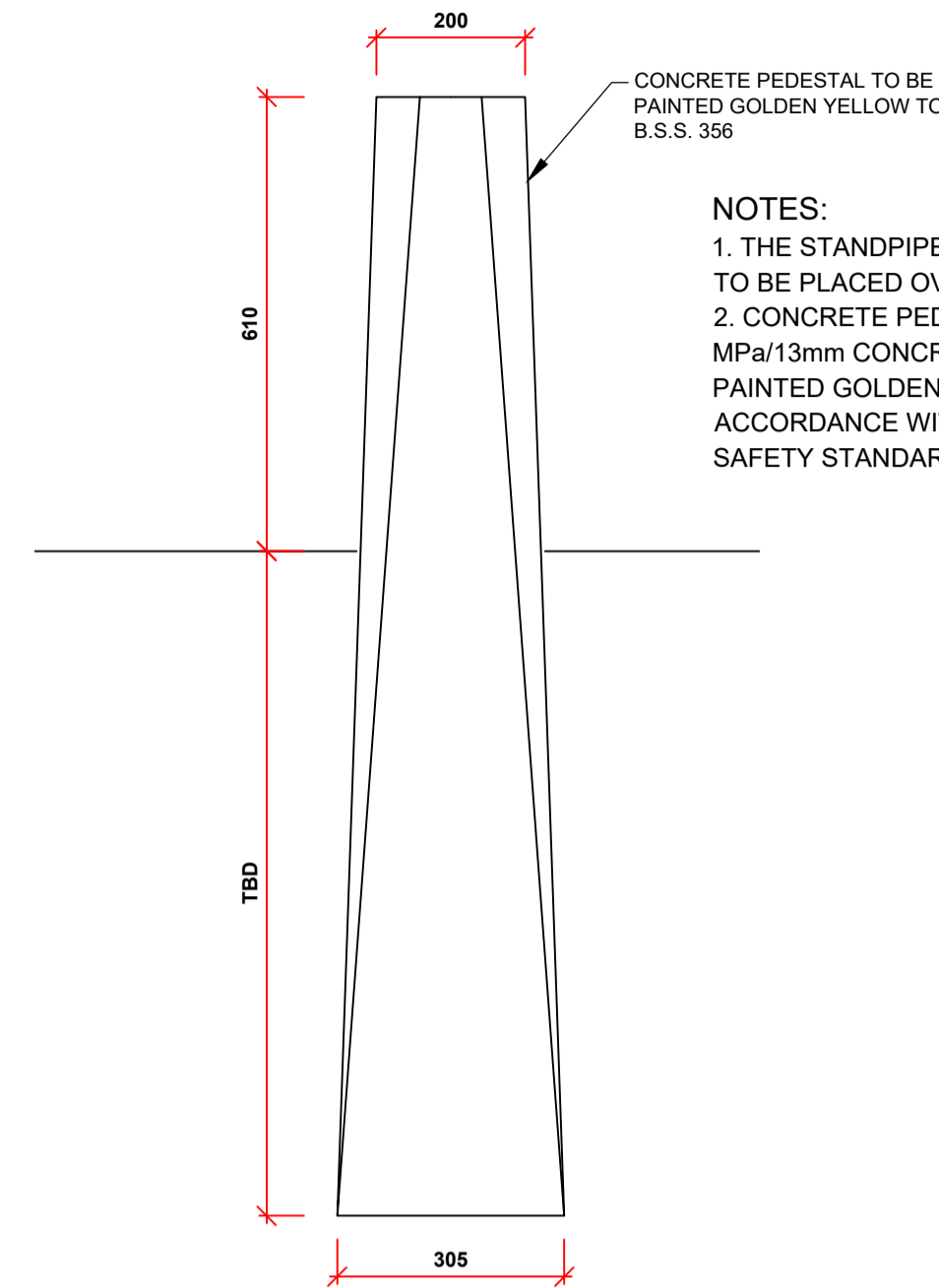
ELEVATION OF TWIN BOOSTER HYDRANT CONNECTION

SCALE 1 : 10



SECTION THROUGH TWIN BOOSTER HYDRANT CONNECTION

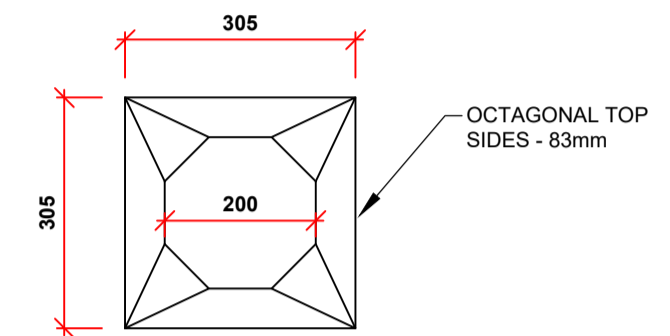
SCALE 1 : 10



ELEVATION OF TWIN BOOSTER HYDRANT PEDESTAL

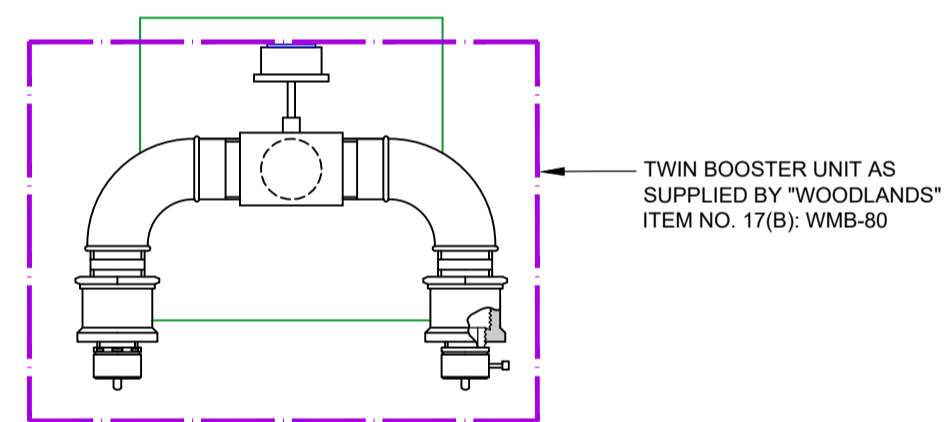
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NOTES:
 1. THE STANDPIPE IS NOT PERMITTED TO BE PLACED OVER THE WATER MAIN.
 2. CONCRETE PEDESTAL TO BE 25 MPa/13mm CONCRETE AND TO BE PAINTED GOLDEN YELLOW IN ACCORDANCE WITH B.S.S. (BASIC SAFETY STANDARDS) 356



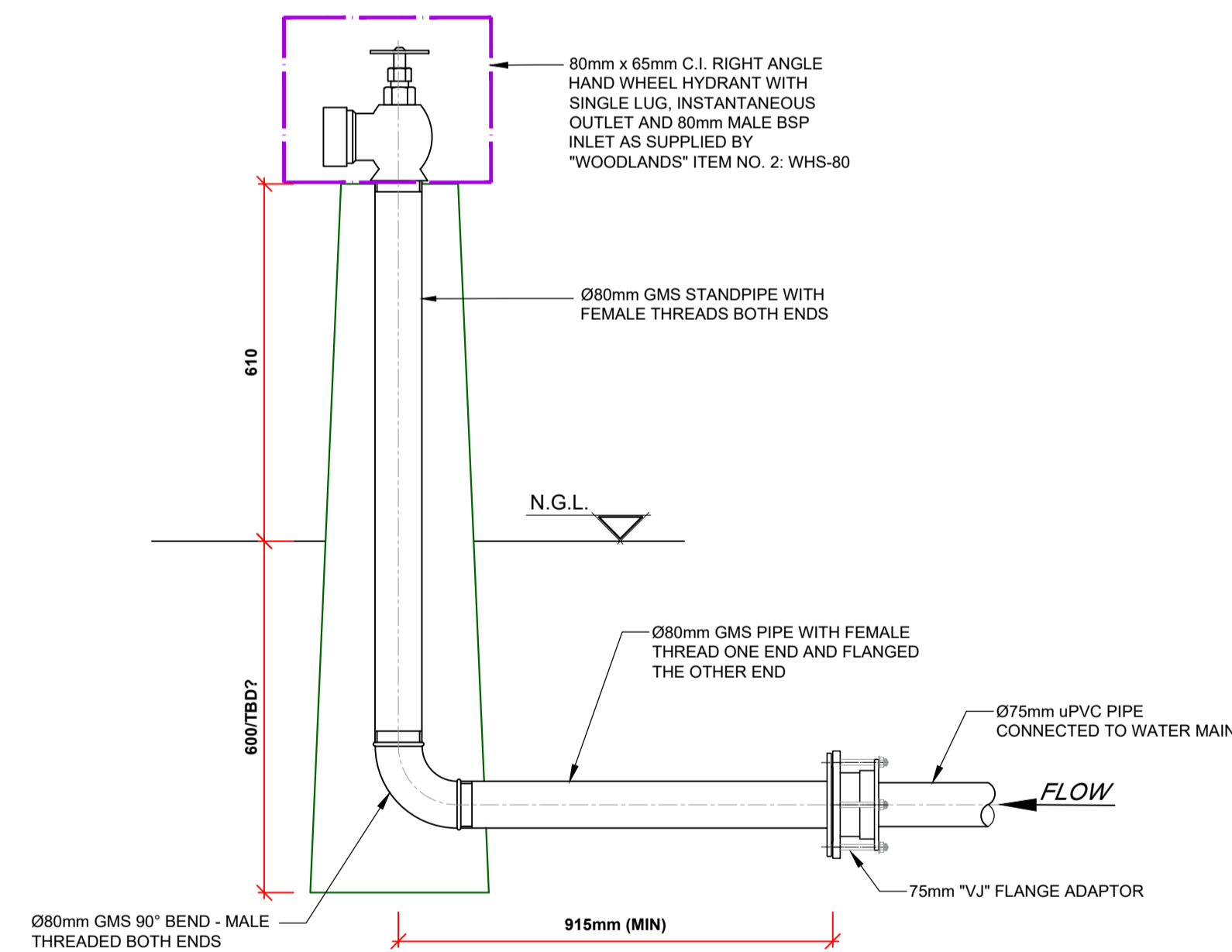
PLAN OF TWIN BOOSTER HYDRANT PEDESTAL

SCALE 1 : 10



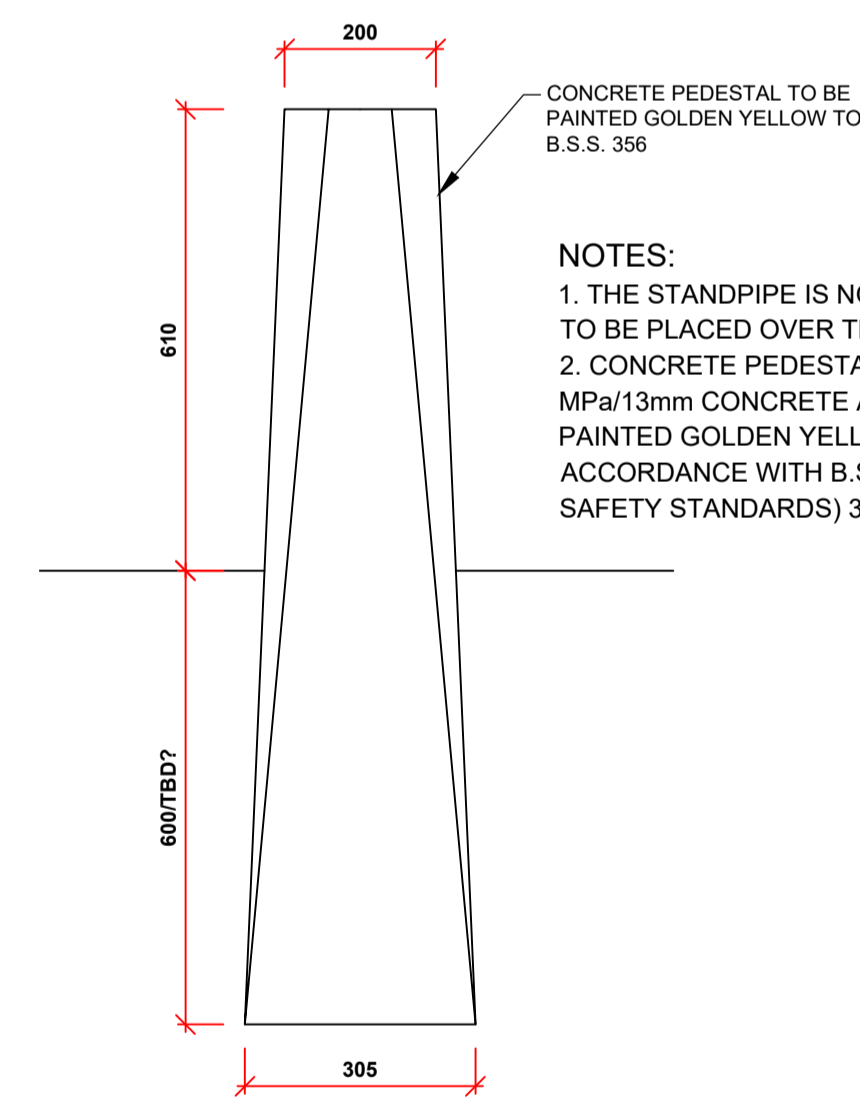
PLAN OF TWIN BOOSTER/SUCTION HYDRANT CONNECTION

SCALE 1 : 10



TYPICAL SECTION THROUGH FIRE HYDRANT

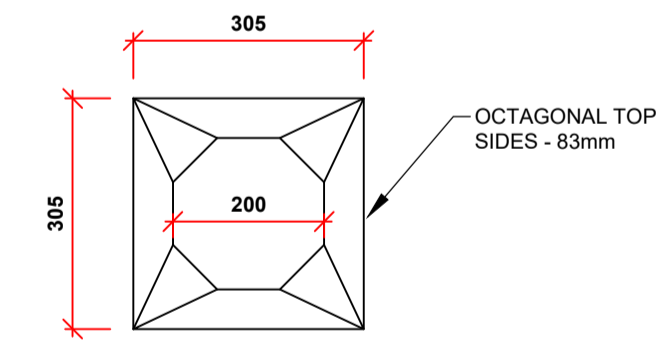
SCALE 1 : 10



ELEVATION OF FIRE HYDRANT PEDESTAL

SCALE 1 : 10

NOTES:
 1. THE STANDPIPE IS NOT PERMITTED TO BE PLACED OVER THE WATER MAIN.
 2. CONCRETE PEDESTAL TO BE 25 MPa/13mm CONCRETE AND TO BE PAINTED GOLDEN YELLOW IN ACCORDANCE WITH B.S.S. (BASIC SAFETY STANDARDS) 356



PLAN OF FIRE HYDRANT PEDESTAL

SCALE 1 : 10

NOTE:

- GMS - GALVANISED MILD STEEL
uPVC - UNPLASTICISED POLYVINYL CHLORIDE
TBD - TO BE DETERMINED
- APPLY 2 No. COATS OF BITUMEN AT AREAS WHERE STEEL IS IN CONTACT WITH CONCRETE FOR COMMON PENETRATION, PRIOR TO CASTING CONCRETE.

General Notes:

- All dimensions and levels are to be checked on site and where applicable to match the existing structure.
- Any discrepancies or contradictions on the drawings are to immediately be reported to the Engineer.
- All dimensions are in millimeters. Drawings are not to be scaled.
- All dimensions shown on the drawings are to be set out on site on the horizontal plane.
- A complete set of drawings to be available on site at all times.
- The contractor is responsible for the correct setting out on site and to ensure that the setting out details are in accordance with the drawings.
- All drawings are to be read in conjunction with the architect's details and drawings.
- The contractor is responsible for checking that the reinforcement is fixed and maintained in the correct position before and during the casting of concrete.
- Finished structure is to comply with the latest amendments of SANS 10400.
- No concrete may be cast without the approval from the Engineer and a minimum of 48 hours' notice is to be given to the Engineer prior to an inspection on site.
- All reinforcing steel to comply with SANS 0920 as follows:
 - R - Plain round mild steel bars of strength 250MPa.
 - Y - High yield deformed steel bars of strength 450MPa.
- 282-2004.
13. Symbols:
 - T - Top
 - M - Middle
 - B - Bottom
 - EW - Each way
 - Y10 - 400mm
 - Y12 - 480mm
 - Y16 - 640mm
 - Y20 - 800mm
 - 15. Minimum cover to reinforcing steel bars unless otherwise stated on drawings are as follows:
 - Column bases - 75mm
 - Columns - 40mm
 - Strip foundations - 50mm
 - Slabs - 40mm
 - Raft foundations - 40mm
 - Beams - 40mm
 - Staircases - 40mm
 - Walls - 40mm
 - 16. Max slump for all concrete to be 75mm unless otherwise stated on drawings.
 - 17. All concrete to be 25/19 MPa unless otherwise stated on drawings. Contractor to provide Engineer with test results for 3 x test cubes. All concrete to be vibrated when placed on site.
 - 18. Concrete to be cured on site by daily watering for a period of seven (7) days.
 - 19. All concrete works supporting brickwork to be cured for a minimum of three (3) days prior to any construction of brickwork commencing.
 - 20. Minimum compressive strength of bricks shall be 7MPa in accordance with SANS 10400 unless otherwise stated on the drawings.
 - 21. Clay bricks to be thoroughly wetted before use.
 - 22. A slip joint comprising of 2 by layers 3 ply malthoid must be provided between all loadbearing brickwork and the concrete structure.
 - 23. A 10mm soft joint must be provided between all non loadbearing brickwork and the concrete structure.
 - 24. The specification for fill material to be as follows:
 - Contain no organic material.
 - Contain no stone with a dimension of larger than two thirds of the layer being compacted.
 - A ρ of not exceeding 10 and a CBR of at least 15% at 93% MOD A.A.S.H.T.O. and be capable of being compacted to 98% MOD A.A.S.H.T.O.
 - Swell at 100% MOD A.A.S.H.T.O. shall not exceed 1.5%.
 - 25. A sample of fill material together with test results to be provided to Engineer prior to construction.

Removal of formwork & supports from concrete:	Days:
Beam sides	2
Deck plates - props left under	7
Beam soffits - props left under	12
Removal of slab props	17
Removal of beam props	21

NB: The above does not include any adjustment for loading (excluding normal loading) being applied above the structural element.

Revision Details

No.	Date	Description	By

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PROUDLY SOUTH AFRICAN

FOR APPROVAL

Client: **REDLINE GROUP**

Project: **NAHOON VALLEY DEVELOPMENT**

Drawing Title: **TWIN BOOSTER/SUCTION HYDRANT CONNECTION & ABOVE GROUND FIRE HYDRANT DETAILS**

Designed: **N. Weyer**

Drawn: **N. Weyer**

Checked: **D. De Wet**

Revision: **0**

Scale: **As Shown**

Size: **A1**

Date: **06 July 2022**

Drawing No.: **S222150-WD-04**