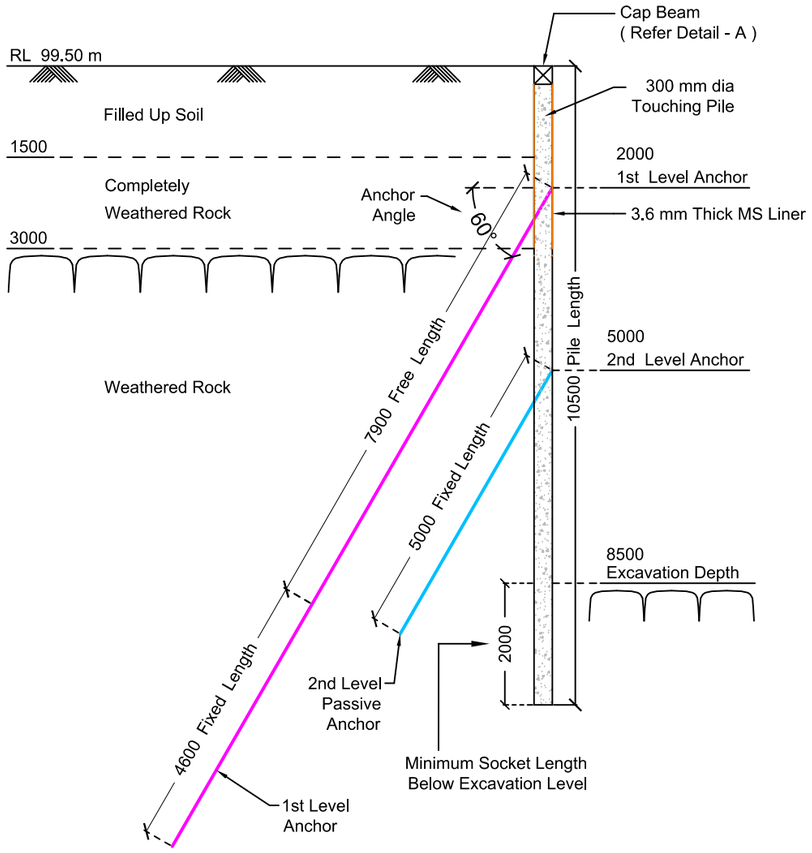
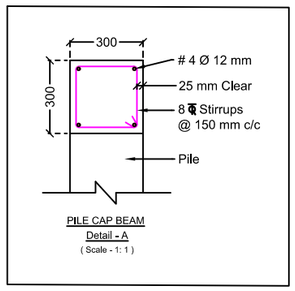
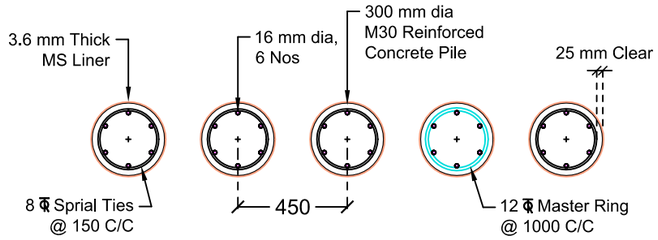


Typical Pile Section

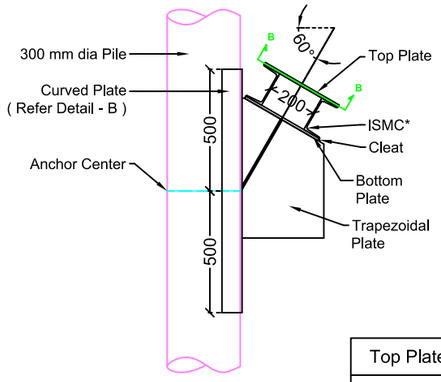


PILE CAP BEAM
Detail - A
(Scale - 1: 1)

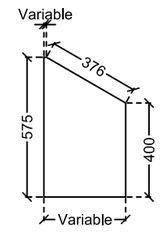
Anchor Details	1st Lvl	2nd Lvl Passive Anchor
Anchor Capacity	400 kN	--
Anchor c/c Distance	2.70 m	2.70 m
Anchor Hole Dia	112.50 mm	112.50 mm
HT Strands of 12.7 mm dia	5 Nos	#1-32 mm Ø FE 500
Free Length	7.90 m	--
Fixed Length	4.60 m	--
Total Length	12.50 m	--
Fixed Length Grout	Non Shrink High Strength Cemetaceous Grout such as Conbextra GP2 or Equivalent	



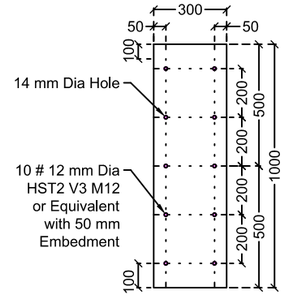
Note :- Reinforcing Steel Fe 500
Pile Reinforcement Details



Section A-A
Typical Details of
Waller Beam

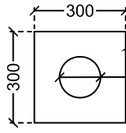


Trapezoidal Plate Details



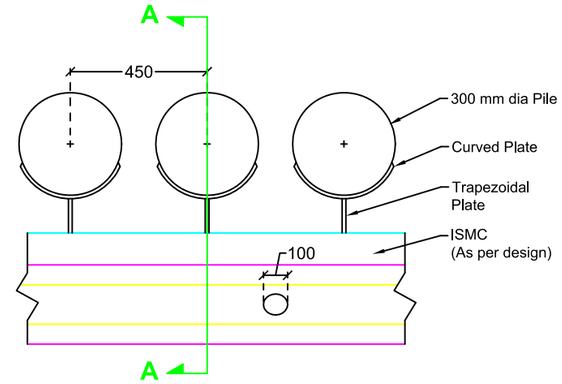
MS Curved Plate
(Straightened)
Detail - B

Top Plate	350 mm X 10 mm
Bottom Plate	350 mm X 10 mm
Curved Plate	8 mm Thick
Trapezoidal Plate	10 mm Thick
Channel	ISMC 150
Connection Bolts	As per M/s Hilti or - - equivalent design

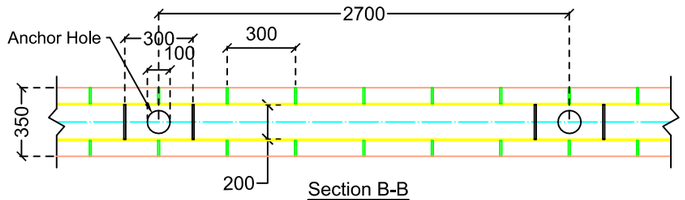


Details of Thrust Plate

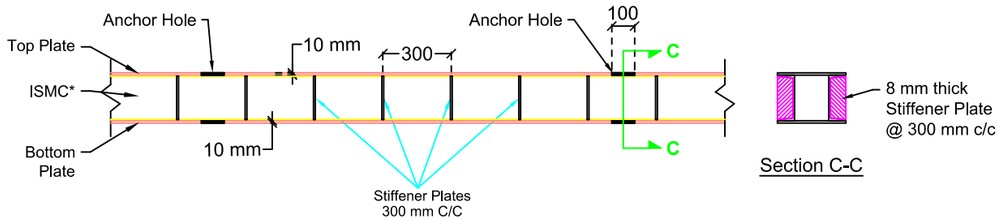
* Bearing plate shall be provided by the anchoring vendor as per requirements.



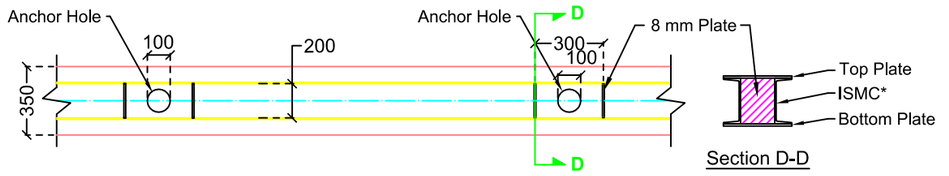
Top View



Section B-B



Section C-C



Section D-D
* As per design

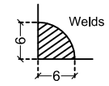
GENERAL NOTES FOR RETAINING PILES :

A3

1) Grade of Concrete shall be M30 grade with 10 mm downgraded aggregates for pile & pile cap.
2) Minimum Cement Content shall not be less than 350 Kg/m³.
3) Maximum water cement content = 0.45.
4) Slump of pile concrete shall be between 150 mm to 180 mm.
5) Cement used shall be Ordinary Portland Cement.
6) Minimum pile length shall be as shown in drawing.
7) Reinforcement shall be HYSD Steel of grade 500. Clear cover to main reinforcement shall be 25 mm (side and bottom).
8) Main reinforcement shall be levelled at bottom by placing additional master link at bottom. This is permit free flow of Tremie concrete.
9) If pile is more than 12.00 m long, then splice will be required. Splice shall be provided for 50% of bars at a section in the upper part of pile.
10) Spiral reinforcement shall be of 8 mm dia and provided with pitch of 150 mm.
11) Master rings shall be provided every 1000 mm c/c and shall be of 12 mm diameter.
12) Pile cut off level shall be at least 100 mm above bottom of pile cap. Overflow of concrete shall be done for at least 1 m length of pile above pile cut off level.
13) Alignment and Verticality of pile shall be checked repeatedly & maintained carefully. Eccentricity (shift) of pile in any direction shall not exceed 75 mm.
14) Sides of pile bore shall be supported adequately by permanent MS liner up to rock top level from existing ground level. This shall be ensured by Contractor and Supervising authority.
15) During installation of piles, if any variation is found in sub soil stratification then, it should be informed to consultants.
16) To connect all piles, pile cap shall be provided at existing ground level.
17) All dimensions are in mm otherwise mentioned in the drawing.
18) Ground Water likely to seep through gaps. If colour of seepage water turns turbid, site engineer should inform consultants immediately.
19) Excavation shall be carried out only in dry season.
20) It should not allow water to stagnant outside the retaining piles.
21) In case of washing of soil from the gaps between piles, immediately cement grouting shall be carried out behind the retaining piles to avoid soil erosion.
22) Stacking of excavated soil or construction materials by the side of retaining piles shall not be carried out. Movement of heavy construction machinery such as cranes, earth movers, etc shall be restricted for atleast 10 m from outer face of retaining piles.

GENERAL NOTES FOR WALLER BEAMS :

1) All Joints shall be of 6 mm fully fillet welded.
2) C G of members to match.
3) All dimensions are in milimeters.
4) All welds are 6 mm fillets cont. all around of shape and conform to IS 816, 819, 1024, 1261, 9595 as applicable.
5) All structural steel to conform IS 2062:1999



6) All welding electrodes to conform IS 814 (Part I & II) 1974,
   (a) IS 1395-1971 as applicable
   (b) Welding electrodes should be of min 3 & 5 mm dia and manufactured by reputed vendor.
7) This is typical details drawing.
8) The contractor should study it, get acquainted with it and prepare a detailed fabrication drawing for submission to engineer. The drawing should be revised based on comments from engineer for final submission. The work should be done as per actual layout done at site and fabrication drawing duly approved by the engineer.
9) Dimensions on drawing to be checked at site.
10) Fabrication to start after making full scale layout at site.
11) Stability of the structure during erection is contractors responsibility.
12) C G of waller beam and bearing plate should be matched.

REV :	DESCRIPTION :	DATE :	SIGNATURE :
R1	Issued For Approval	21-10-2026	
R0	Good for Construction	07-10-2026	
R0	Issued For Approval	12-08-2026	

NAME OF OWNER :
M/s Jehangir Hospital

NAME OF PROJECT :
Proposed Hospital Building at Pune.
--

DRAWING TITLE :
Retaining Pile Section and Waller Beam Details
--

SIGNATURE & ADDRESS OF CONSULTANT

Sub Surface Consultants PRIVATE LIMITED
503, 5th Floor, Lotus Plaza CHSL, Opp Navjeevan Blood Bank, Gokhale Road, Naupada, Thane (W) 400602 ; Tel : 022 - 4974 7328 ; E-mail :- svgeocons@gmail.com

NORTH LINE	REVISION	JOB NO : 2320-2026-160	SCALE : NOT TO SCALE
	R1	DWG NO : 2320/26-27/160/01	DRAWN BY : MG
		DATE : 12 - 08 - 2026	CHKD BY : MH