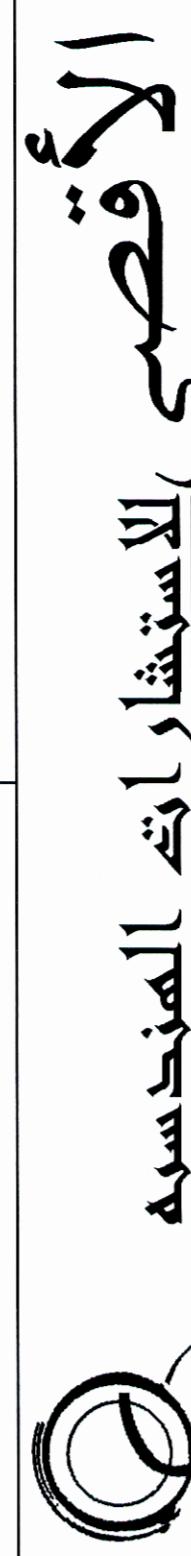


STRUCTURAL NOTES

- 1 Concrete mix will be S.R.C below slab lvl . O.P.C. above slab lvl.
  - 2 Design of foundation is based on allowable safe soil bearing capacity of 200 KN/m<sup>2</sup>
  - 3 Cover to outer layer of reinforcement is to be 65mm all conc. below gr.lvl.
  - 4 specifiedheight yeld hot rolled bars shall comply with B.S. 4461 or equivalent.
  - 5 are comply with B.S.4449 or equivalent.
  - 6 All concrete up to top of structural gr.slab sulphate resistant cement.
  - 7 and above that these will be hollow blocks.
  - 8 All vertical faces of concrete and block work below ground floor slab shall be painted with 2 coat 1mm thick bitumin paint.
  - 9 All concrete surfaces and block work below ground floor shall be wrapped with 1000gauge polythene membrane.
  - 10 For splicing lap length shall be minimum 50x diameter of bar.
  - 11 At no section more than 25% of bars shall be spliced.
  - 12 All cover blocks shall be circular and made of the same grade of concrete as the member where it is used.
  - 13 Strength of concrete mix (A) S.R.C. 30 N/mm<sup>2</sup> minimum cement content 370 kg/m<sup>3</sup> for all conc. below gr.lvl.
  - 14 Strength of concrete mix (B) O.P.C. 25 N/mm<sup>2</sup> minimum cement content 350/kgm<sup>3</sup> for all conc. on super structure.
  - 15 Minimum cover to reinforcement is 25 mm for slabs, interior beams and columns 40 mm for exterior beams and columns.

1. ALL SLABS ARE 150mm THK. UNLESS OTHERWISE NOTED
2. DISTRIBUTION REINFORCEMENT AT TOP NOT SHOWN ON  
ON THIS LAYOUT. HOWEVER PROVIDE Y10@200c/c FOR CLARIFICATION.
3. PROVIDE BRC MESH A 252 AT TOP OF UNREINFORCED PORTION  
OF SLAB THK. 200 OR MORE.
4. FOR STRUCTURAL NOTES, SCHEDULE OF FOOTING, COL., BEAM  
REF. DRG NO S-02
5. ALL BATHROOM SLABS AT FIRST FLOOR LVL. TO BE DROPED  
200mm TO BE SHOWN AS HATCHED

UPDA Reg.No./Grade:	545/A	Qatar ID No.:	27481802237
Validity:	JUNE 6, 2014	Validity:	MAY 04, 2014



# **Al- AQSA** Engineering Consultancy (Q.E.C)

UPDA Reg.No./Grade:	35/A	Qatar ID No.:	26381800356
Validity:	NOVEMBER 12, 2014	Validity:	MAY 13, 2014

ENG ADNAN FAHAD AL NAIMI

मानविकी

# AGRI GREEN

# FACTORY(G) OFFICE(G+1) STORE AND DINING ROOM



Location: <b>INDUSTRIAL AREA</b>		PIN No:
Area:	81	Street:

Revision:	00	Dwg. No.:
Date:	11-2012	S06

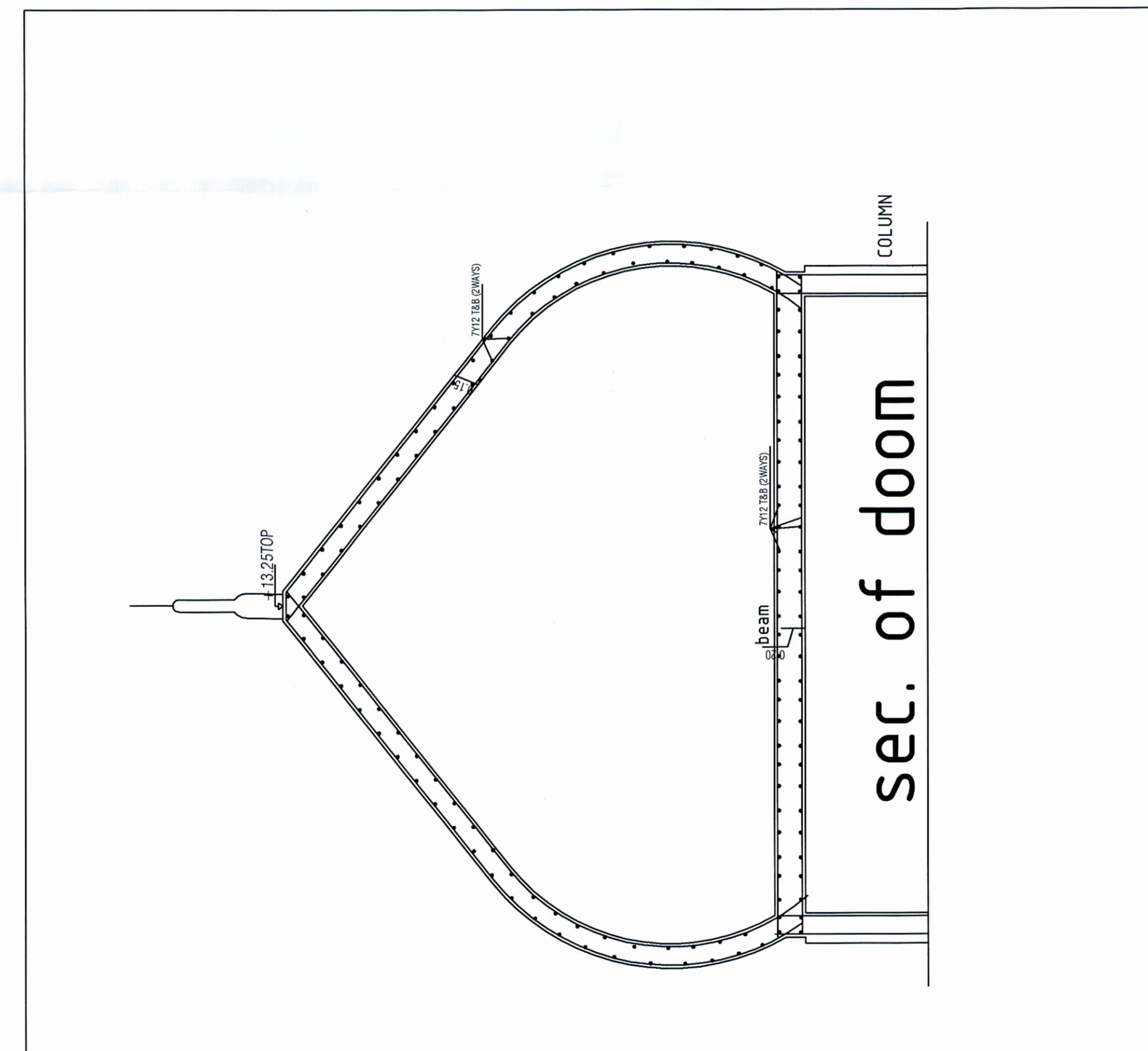
The diagram illustrates the cross-section of a typical joint between two hollow core slabs. The layers from top to bottom are:

- WATER PROOFING
- CONCRETE LAYER (7cm) WITH STEEL MESH 142
- SLAB THICKNESS
- SCREED CONCRETE

The joints between the hollow core slabs are shown as vertical slots filled with concrete. The hollow cores of the slabs are indicated by circles.

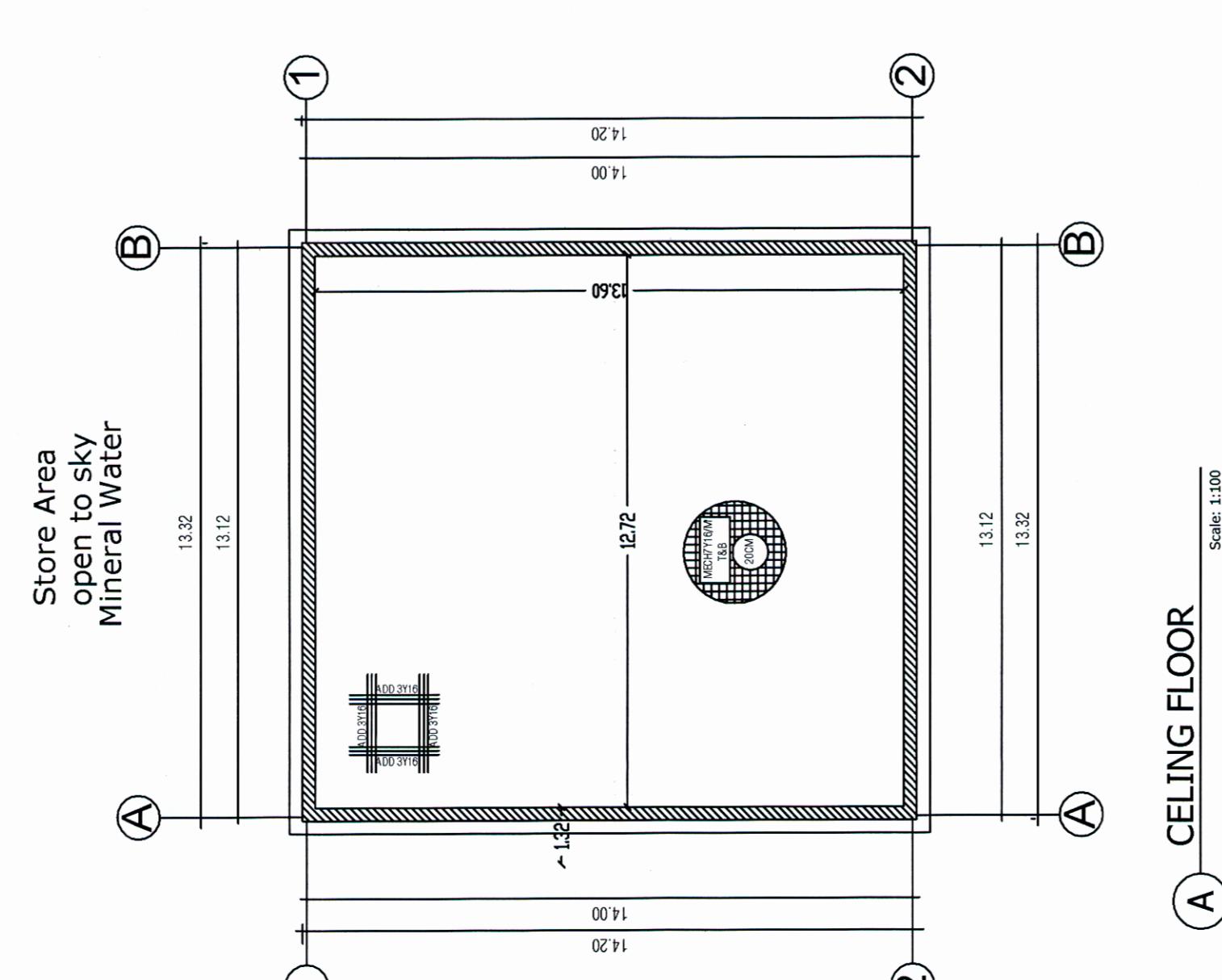
TYPICAL JOINT DETAILS OF HOLLOW CORE SLAB ( HCS )

U . NTS



This architectural floor plan illustrates a complex building layout across multiple levels. The plan includes several rooms labeled B1 through B5, and a central staircase labeled S1. Key features include:

- Rooms:** B1, B2, B3, B4, B5.
- Staircase:** S1.
- Dimensions:**
  - Horizontal dimensions: 3.00, 1.90, 1.90, 3.00, 1.751, 2.80, 2.80, 1.00, 0.682, 1.74, 1.03, 2.89, 2.40, 1.06, 2.40, 3.20, 3.20, 3.00, 3.00, 1.847.
  - Vertical dimensions: 16.18, 2.98, 3.05, 3.65, 3.10, 3.20, 16.18.
- Structural Notes:**
  - 7 T16 mm M(T&B) 16mm M (T&B)
  - 7 T14 mm A' 14mm A'
  - B2 AT LANDING
  - C90°
  - 16mm M (T&B)



BLE OF RIBS&H. BEAMS

TABLE OF CEILING

TYPE	THICKNESS CM	REINFORCEMENT				REMARKS
		BOTTOM SHORT	TOP SHORT	BOTTOM LONG	TOP LONG	
S1	15	Y 10@15 cm c/c	Y 12@17 cm c/c	Y 10@17 cm c/c	Y 12@20 cm c/c	Two Layers

*THEORY OF RIBS&H. BEAMS*

Size cm	Reinforcement				SHRINKAGE	Type	Size cm	Bottom	Top	Stirrups	REMARKS
	Bottom	Top	CON.	Add. At Mid.	CON.	Add. At SUP. IF CON.					
20*40	3Y16	-	2Y16	1Y16	6 Y 8/m		HB1	60*30	6Y16	6Y14	7 Y 8/m(2-Set)
20*60	2Y16	2Y16	2Y16	2Y16	6 Y 8/m		HB2	40*35	4Y14	4Y14	6 Y 8/m
20*60	3Y16	2Y18	3Y16	2Y16	6 Y 8/m		HB3	60*35	6Y16	6Y14	7 Y 8/m(2-Set)
20*60	3Y18	2Y18	3Y16	2Y16	6 Y 8/m		HB4	150*35	15Y20	15Y18	7 Y 10/m(3-Set)
							R1	1115*35	2Y12	1Y12	6 Y 8/m

Size	cm	Reinforcement				SHR
		Bottom	Top	CON.	Add. At SUP. IF CON.	
20*40	3Y16	-	2Y16	1Y16	6 Y 8/m	2Y
20*60	2Y16	2Y16	2Y16	2Y16	6 Y 8/m	2Y
20*60	3Y16	2Y16	3Y16	2Y16	6 Y 8/m	2Y
20*60	3Y18	2Y18	3Y16	2Y16	6 Y 8/m	2Y