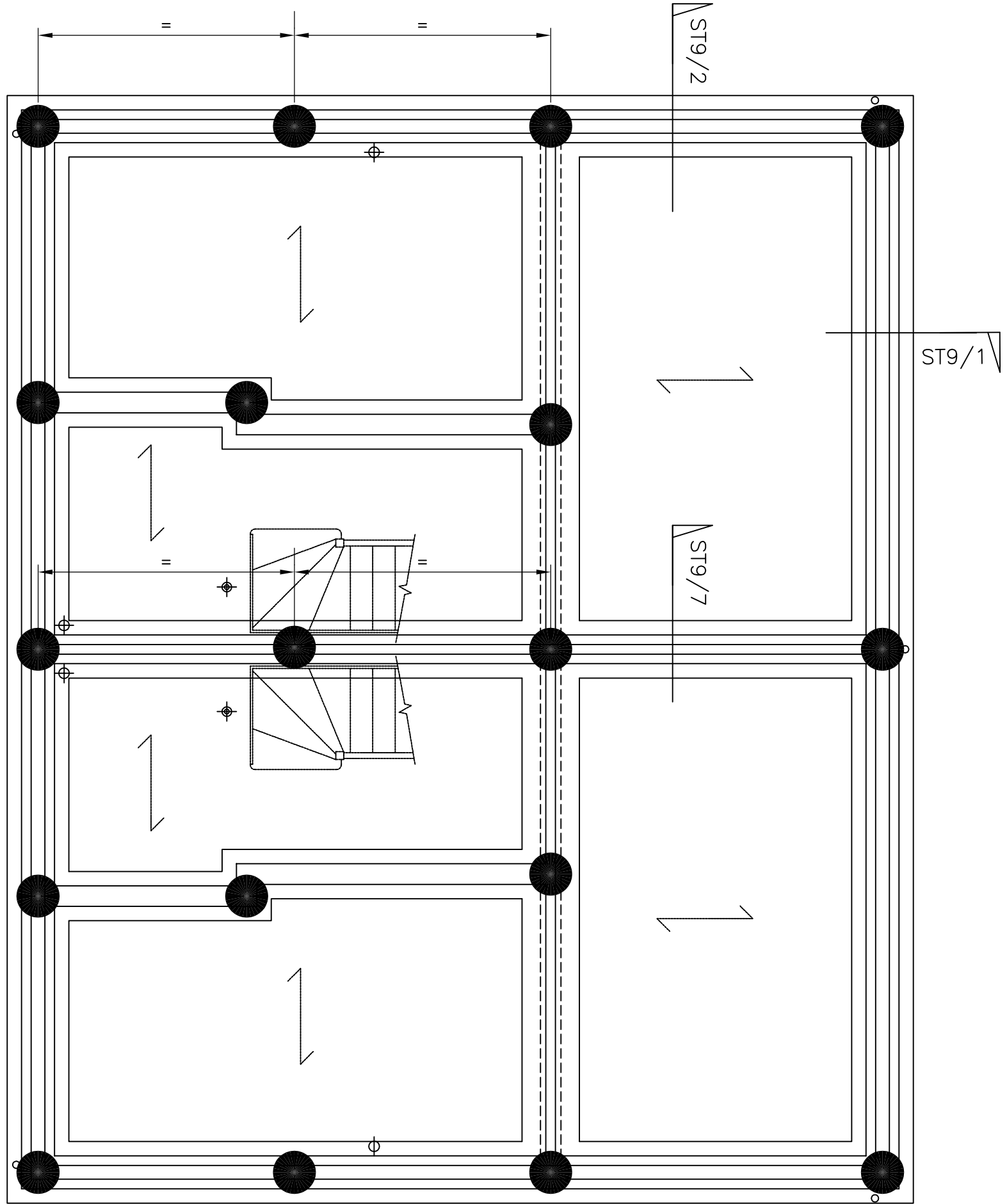
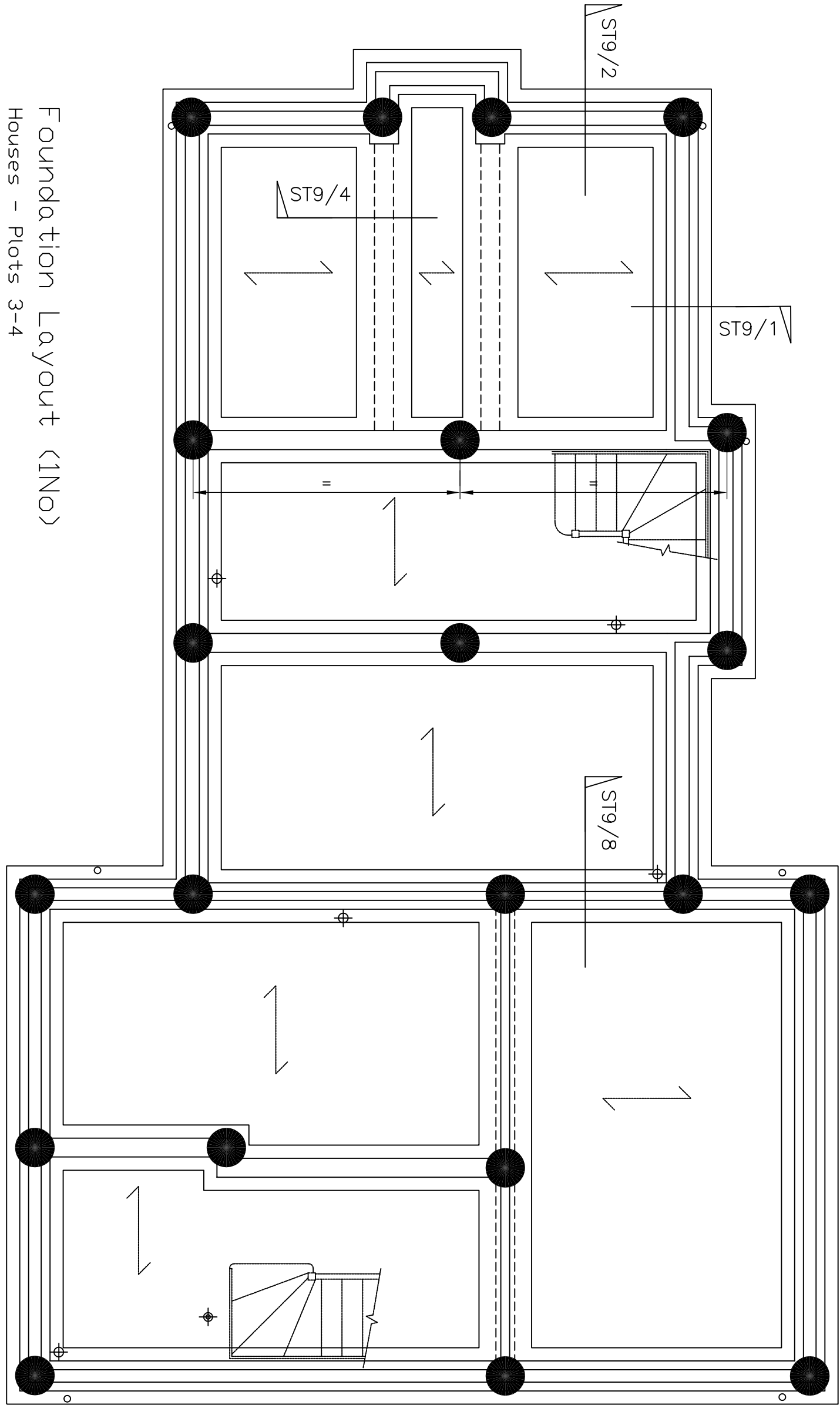
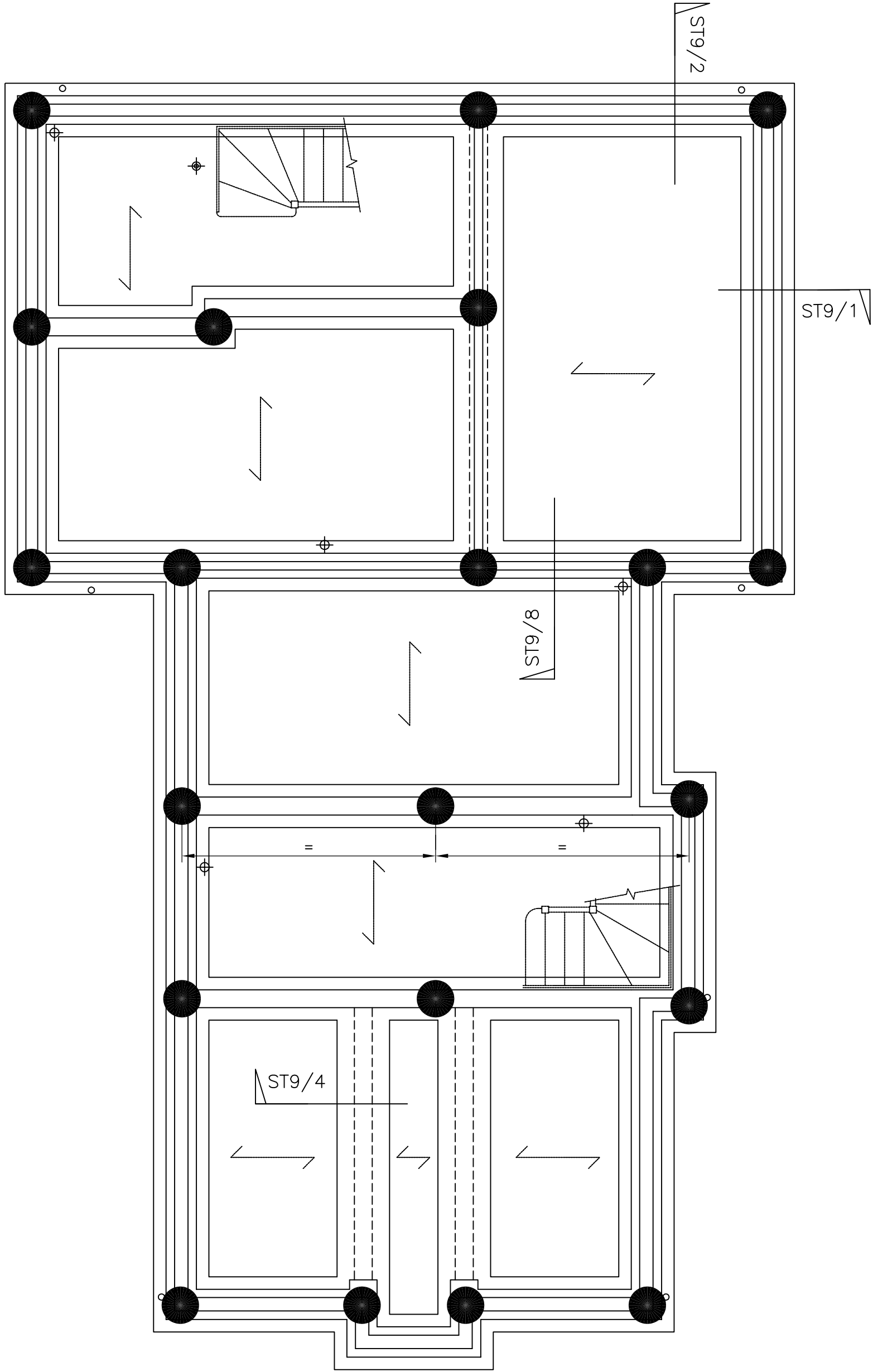




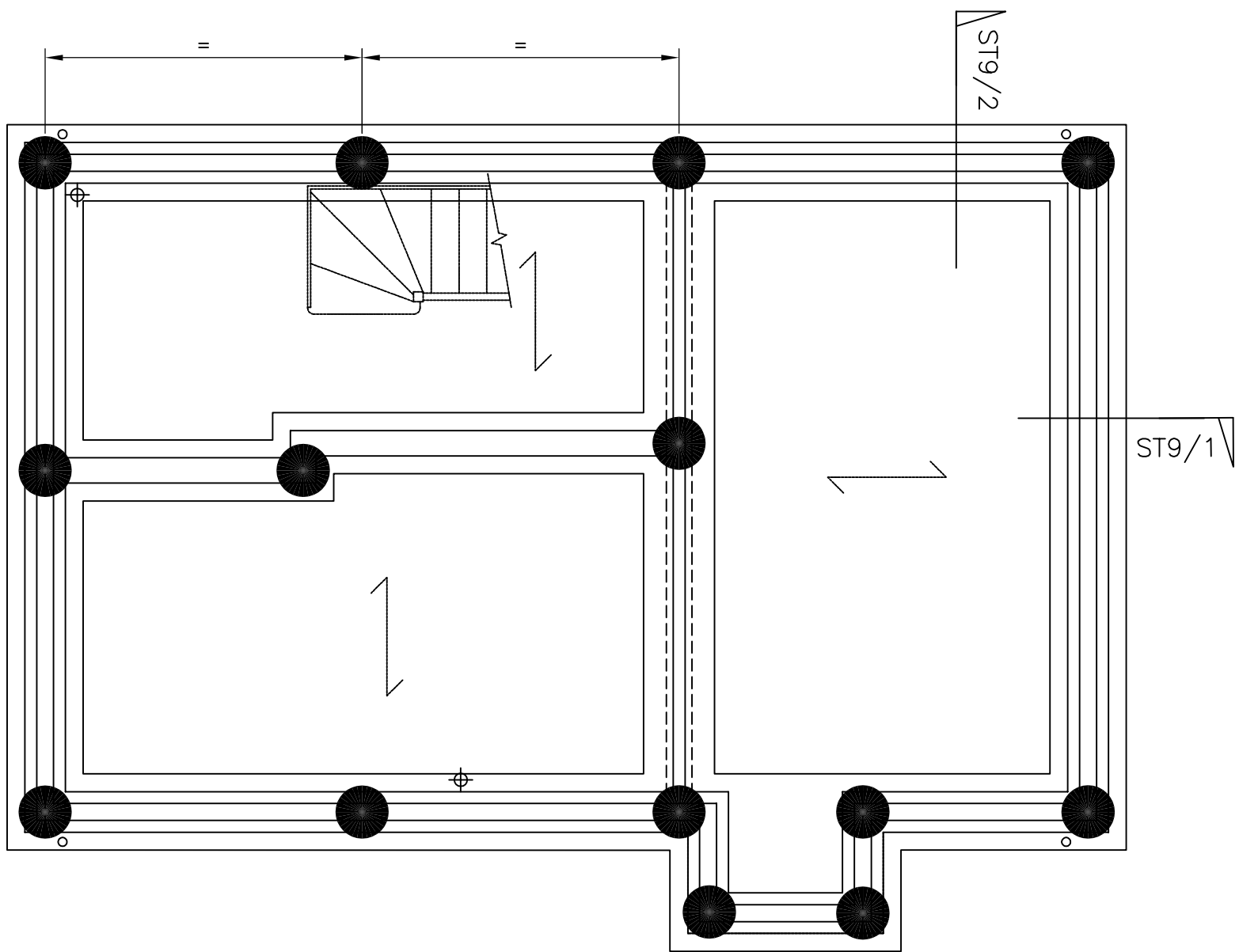
Foundation Layouts (7No)  
Houses - Plots 1-2, 7-8, 9-10, 43-44, 45-46, 47-48 & 51-52



Foundation Layout (1No)  
Houses - Plots 3-4



Foundation Layout (1No)  
Houses - Plots 5-6



Foundation Layout (1No)  
House - Plot 11

NOTES:

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3. ANY DIMENSIONS/LEVELS INDICATED 'ref' REFER TO ASSUMED/EXISTING DIMENSIONS WHICH ARE TO BE SITE CHECKED PRIOR TO THE COMMENCEMENT OF ANY WORK.

PILING NOTES

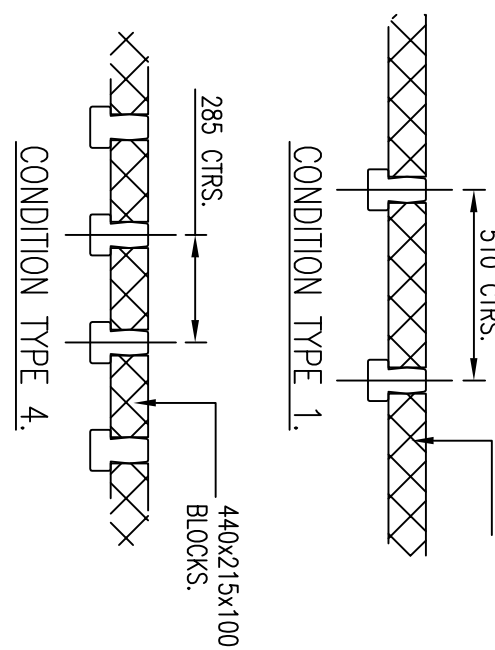
- P1. ALL PILES TO BE DESIGNED, CONSTRUCTED AND TESTED BY THE PILING SUBCONTRACTOR IN ACCORDANCE WITH THE PARTICULAR SPECIFICATION FOR PILING WORKS.
  - P2. PILE DIAMETERS SHOWN ARE 450mm DIAMETER AND SHOULD NOT BE ALTERED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER AS PILES HAVE BEEN SET OUT AND PILE CAPS DETAILED ON THE BASIS OF THE PILE DIAMETERS INDICATED.
  - P3. CONCRETE FOR THE PILES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS FOR CLASS DS-1/AC-1 CONDITIONS OF EXPOSURE AS CLASSIFIED IN BRE SPECIAL DIBEST 1.
  - P4. SUFFICIENT REINFORCEMENT LENGTH ABOVE PILE CUT OFF LEVEL TO BE PROVIDED TO ENSURE SUFFICIENT CONTINUITY OF LOAD PATH INTO THE PILE CAPS FOR ALL LOAD CASES.
  - P5. ALL SETTING OUT DIMENSIONS ARE TO CENTRE LINE OF PILES UNLESS NOTED OTHERWISE.
  - P6. THE LOAD CAPACITIES SHOWN ARE UNFACTORED WORKING LOADS AND DO NOT INCLUDE FOR DOWN DRAG DUE TO NEGATIVE SKIN FRICTION OR THE SELF WEIGHT OF THE PILE. THE PILING SUBCONTRACTOR SHALL MAKE DUE ALLOWANCE WITHIN HIS DESIGN FOR THE SELF WEIGHT OF THE PILE AND THE EFFECTS OF NEGATIVE SKIN FRICTION.
  - P7. ALL PILES SHALL BE DESIGNED TO RESIST A NOMINAL MOMENT EQUAL TO THE PILE CAPACITY MULTIPLIED BY AN ECCENTRICITY OF 75mm.
  - P8. PILES TO PENETRATE 75mm INTO UNDERSIDE OF GROUND BEAM.
- CONCRETE NOTES:
- B1. ALL CONCRETE FOR SUBSTRUCTURE TO BE GRADE RC40 IN ACCORDANCE WITH CLASS DS-1/AC-1 TO BRE SPECIAL DIBEST 1.
  - B2. ALL STRUCTURAL CONCRETE TO BE CAST AGAINST FORMWORK OR ON 50mm BUNDING CONCRETE.
  - B3. FORMED SURFACES - THE IRREGULARITIES IN THE FINISH SHALL BE NO GREATER THAN THOSE OBTAINED FROM THE USE OF THE WROUGHT THICKNESS SQUARE EDGE BOARDS ARRANGED IN A UNIFORM PATTERN. THE FINISH IS INTENDED TO BE LEFT AS STRUCK BUT IMPERFECTIONS SUCH AS FINS AND PROTRUSIONS SHALL BE REMOVED BY GRINDING OR BY THE APPROVAL OF THE ENGINEER.
  - B4. UNFORMED SURFACES - AFTER THE CONCRETE HAS HARDENED SUFFICIENTLY THE UNFORMED SURFACE SHALL BE FLOATED BY HAND TO PRODUCE A UNIFORM SURFACE FREE FROM SORED MARKS.

- GROUND FLOOR NOTES:
- G1. ALL BLOCKWORK BELOW GROUND FLOOR LEVEL TO BE 10N/m<sup>2</sup> COMPRESSIVE STRENGTH DENSE CONCRETE BLOCKS [MORTAR DESIGNATION (ii) UNO.].
  - G2. GROUND FLOOR LOADINGS:-  
FLOOR SWT (ASSUMED) = 2.5 kN/m<sup>2</sup>  
FLOOR FINISHES = 1.9kN/m<sup>2</sup>  
STUD PARTITIONS = 1.0 kN/m OR 1.0 kN/m<sup>2</sup>  
IMPOSED = 1.5 kN/m<sup>2</sup> (GARAGE 2.5kN/m<sup>2</sup>)

KEY:

- INDICATES 215 THICK STEEPER WALLS
- INDICATES BLOCKWORK INTERNAL WALL
- INDICATES SPAN DIRECTION OF 155 DP. PCC BEAM AND BLOCK FLOOR SYSTEM.
- INDICATES SPAN DIRECTION OF 150M THICK RC60ADE C40 DS-3/AC-3 INSTIU CONCRETE SLAB WITH A393 WESH TOP & BTM 40mm COVER

FLOOR BEAM CONDITION TYPES



TOC 675mm  
BELOW FFL

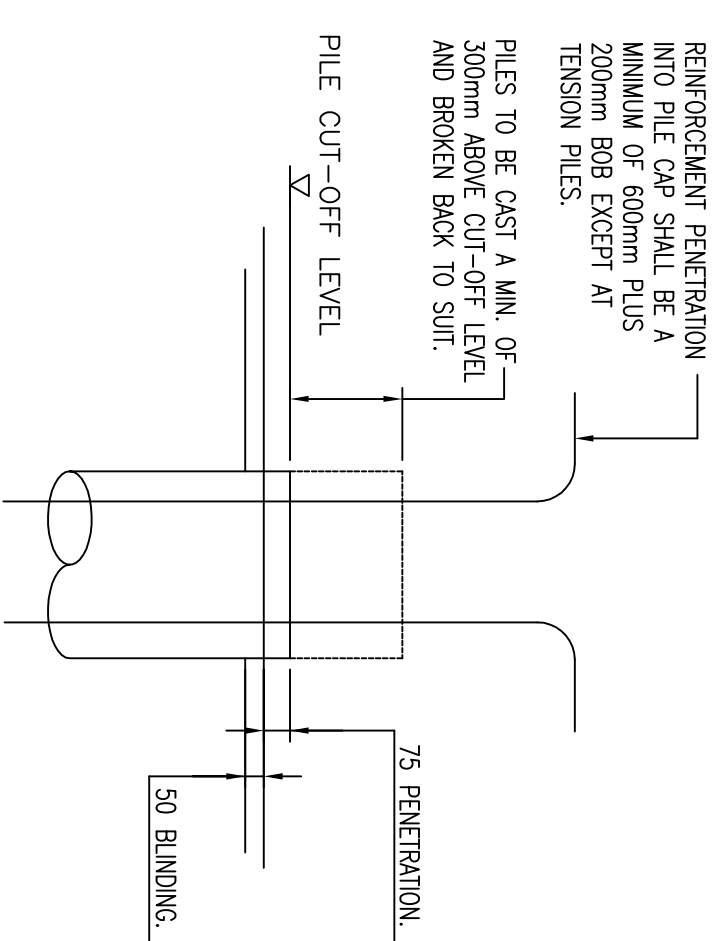
REFER TO MAKE DRAWINGS AND EXTERNAL WORKS DRAWINGS FOR LOCATION OF SERVICE ENTRY POINTS.

ALL GROUND BEAMS ARE 600 WIDE x 500 DEEP UNLESS NOTED OTHERWISE

GROUND BEAM REINFORCEMENT  
ESTIMATE 175 kg/m<sup>3</sup>

REFER TO HDL STANDARD  
Drg. Nos. ST 2 & 9

PILE REINFORCEMENT  
PENETRATION DETAIL:  
N.T.S.



PILE CUT-OFF LEVEL = 1.1m BELOW FFL

PILE LEGEND

No. OFF

350 kN WORKING CAPACITY PILE (450 DIA)

TOTAL 182

PRELIMINARY

| Version                    | Amendment   | Drawn and date | Checked and date | Approved and date |
|----------------------------|-------------|----------------|------------------|-------------------|
| P1                         | PRELIMINARY | HD/06.14       | HD/06.14         | HD/06.14          |
| ORIGINAL DRAWING SIZE - A1 |             |                |                  |                   |
| CAD REF. : X-REFS : .      |             |                |                  |                   |

|                                                           |  |                                                       |  |
|-----------------------------------------------------------|--|-------------------------------------------------------|--|
| Client<br><b>FORGMAN HOMES LTD</b>                        |  | Project<br><b>RAVELAGH ROAD, HANANT</b>               |  |
| Drawing Title<br><b>SubSTRUCTURE/GROUND FLOOR LAYOUTS</b> |  | Drawing No.<br><b>43-44, 45-46, 47-48 &amp; 51-52</b> |  |
| Drawing Scale<br><b>1:50 @ A1</b>                         |  | Drawing Date<br><b>14-2260-101</b>                    |  |
| Drawing Author<br><b>Structural Engineers</b>             |  | Drawing Date<br><b>14-2260-101</b>                    |  |

NOTES:

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PILING NOTES

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- P3. CONCRETE FOR THE PILES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS FOR CLASS DS-1/AC-1 CONDITIONS OF EXPOSURE AS CLASSIFIED IN BRE SPECIAL DIGEST 1.
- P4. SUFFICIENT REINFORCEMENT LENGTH ABOVE PILE CUT OFF LEVEL TO BE PROVIDED TO ENSURE SUFFICIENT CONTINUITY OF LOAD PATH INTO THE PILE CAPS FOR ALL LOAD CASES.
- P5. ALL SETTING OUT DIMENSIONS ARE TO CENTRE LINE OF PILES UNLESS NOTED OTHERWISE.
- P6. THE LOAD CAPACITIES SHOWN ARE UNFACTORED WORKING LOADS AND DO NOT INCLUDE FOR DOWN DRAG DUE TO NEGATIVE SKIN FRICTION OR THE SELF WEIGHT OF THE PILE. THE PILING SUBCONTRACTOR SHALL MAKE DUE ALLOWANCE WITHIN HIS DESIGN FOR THE SELF WEIGHT OF THE PILE AND THE EFFECTS OF NEGATIVE SKIN FRICTION.
- P7. ALL PILES SHALL BE DESIGNED TO RESIST A NOMINAL MOMENT EQUAL TO THE PILE CAPACITY MULTIPLIED BY AN ECCENTRICITY OF 75mm.
- P8. PILES TO PENETRATE 75mm INTO UNDERSIDE OF GROUND BEAM.
- CONCRETE NOTES:
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- B2. ALL STRUCTURAL CONCRETE TO BE CAST AGAINST FORMWORK OR ON 50mm BUNDING CONCRETE.
- B3. FORMED SURFACES – THE IRREGULARITIES IN THE FINISH SHALL BE NO GREATER THAN THOSE OBTAINED FROM THE USE OF THE WROUGHT THICKNESS SQUARE EDGE BOARDS ARRANGED IN A UNIFORM PATTERN. THE FINISH IS INTENDED TO BE LEFT AS STRUCK BUT IMPERFECTIONS SUCH AS FINS AND SPALLS OR DISCOLORATION SHALL BE MADE GOOD TO THE APPROVAL OF THE ENGINEER.
- B4. UNFORMED SURFACES – AFTER THE CONCRETE HAS HARDENED SUFFICIENTLY THE UNFORMED SURFACE SHALL BE FLOATED BY HAND TO PRODUCE A UNIFORM SURFACE FREE FROM SORED MARKS.

- REINFORCEMENT PENETRATION INTO PILE CAP SHALL BE A MINIMUM OF 600mm PLUS 200mm BOB EXCEPT AT TENSION PILES.
- PILES TO BE CAST A MIN. OF 50mm ABOVE FINISHED LEVEL AND BROKEN BACK TO SOIL.
- 75 PENETRATION.
- 50 BUNDING.

PILE REINFORCEMENT PENETRATION DETAIL:

N.T.S.

PILE CUT-OFF LEVEL = 1.1m BELOW FFL

PILE LEGEND

No. OFF

350 kN WORKING CAPACITY PILE (450 DIA)

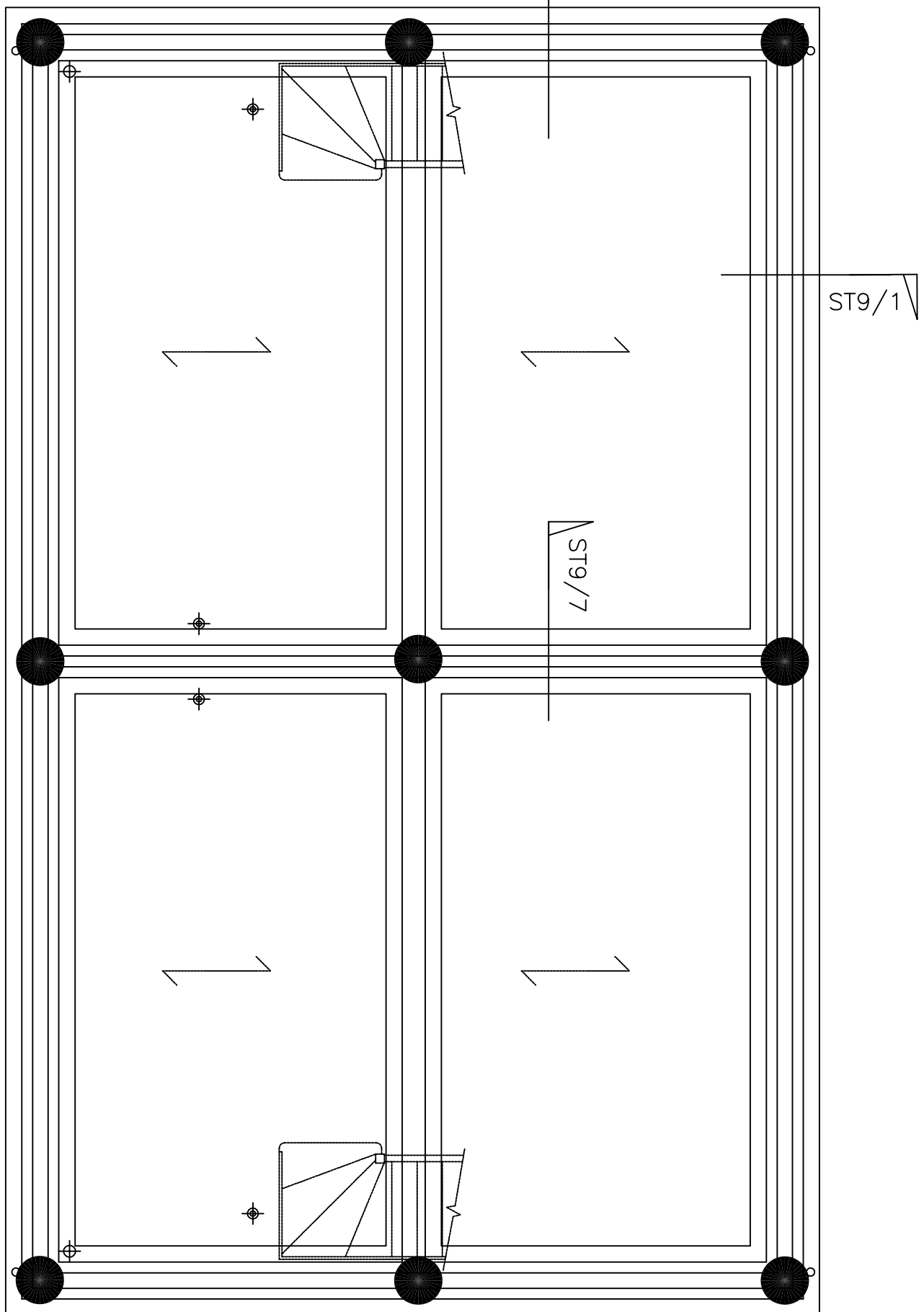
107

TOTAL 107

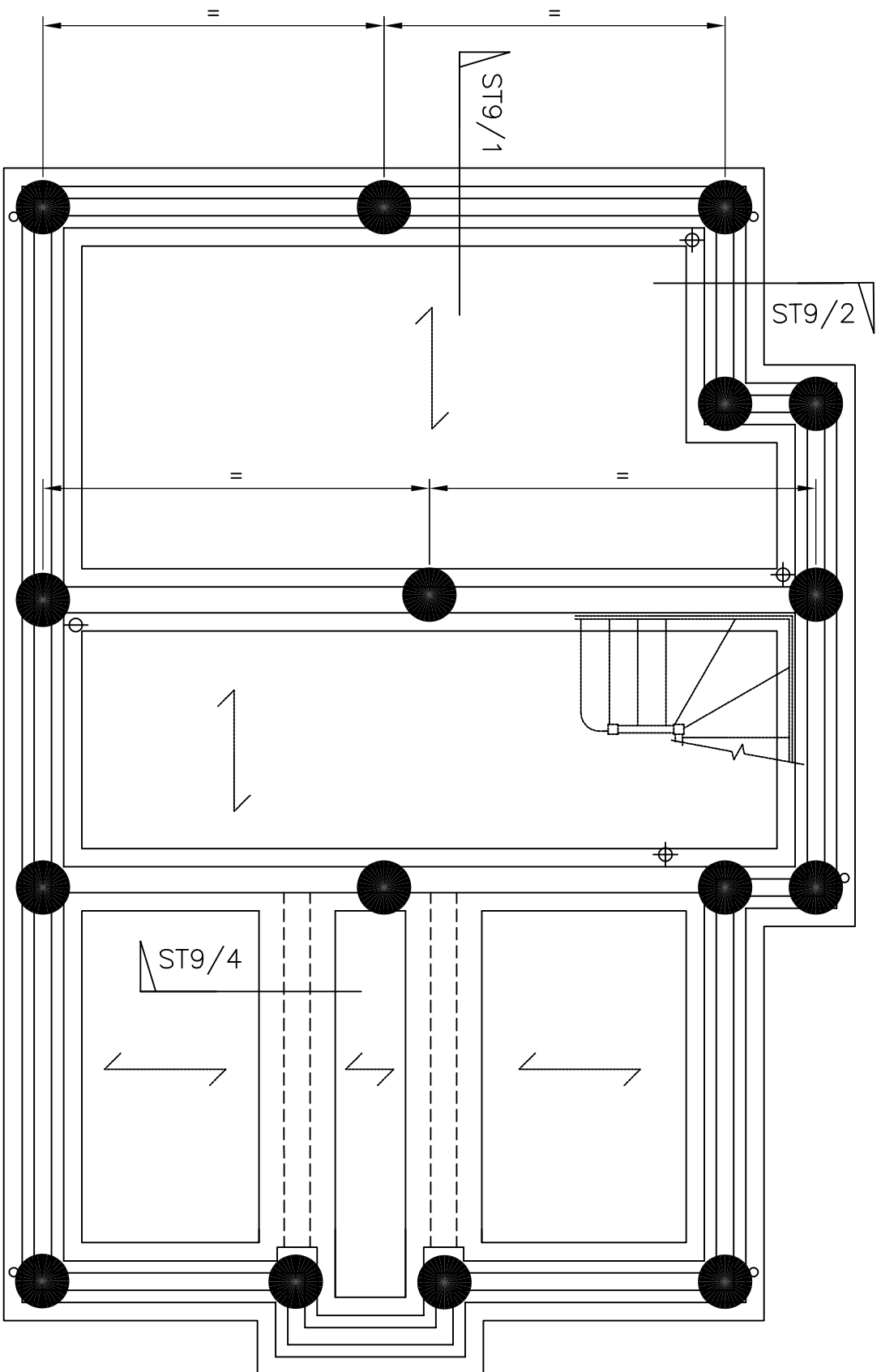
PRELIMINARY

|                            |             |                |                |                |
|----------------------------|-------------|----------------|----------------|----------------|
| P1                         | PRELIMINARY | HDL/06.14      | HDL/06.14      | HDL/06.14      |
| Version                    | Amendments  | Issue and date | Issue and date | Issue and date |
| ORIGINAL DRAWING SIZE - A1 |             |                |                |                |
| CAD REF.                   |             | X-REFS :       |                |                |

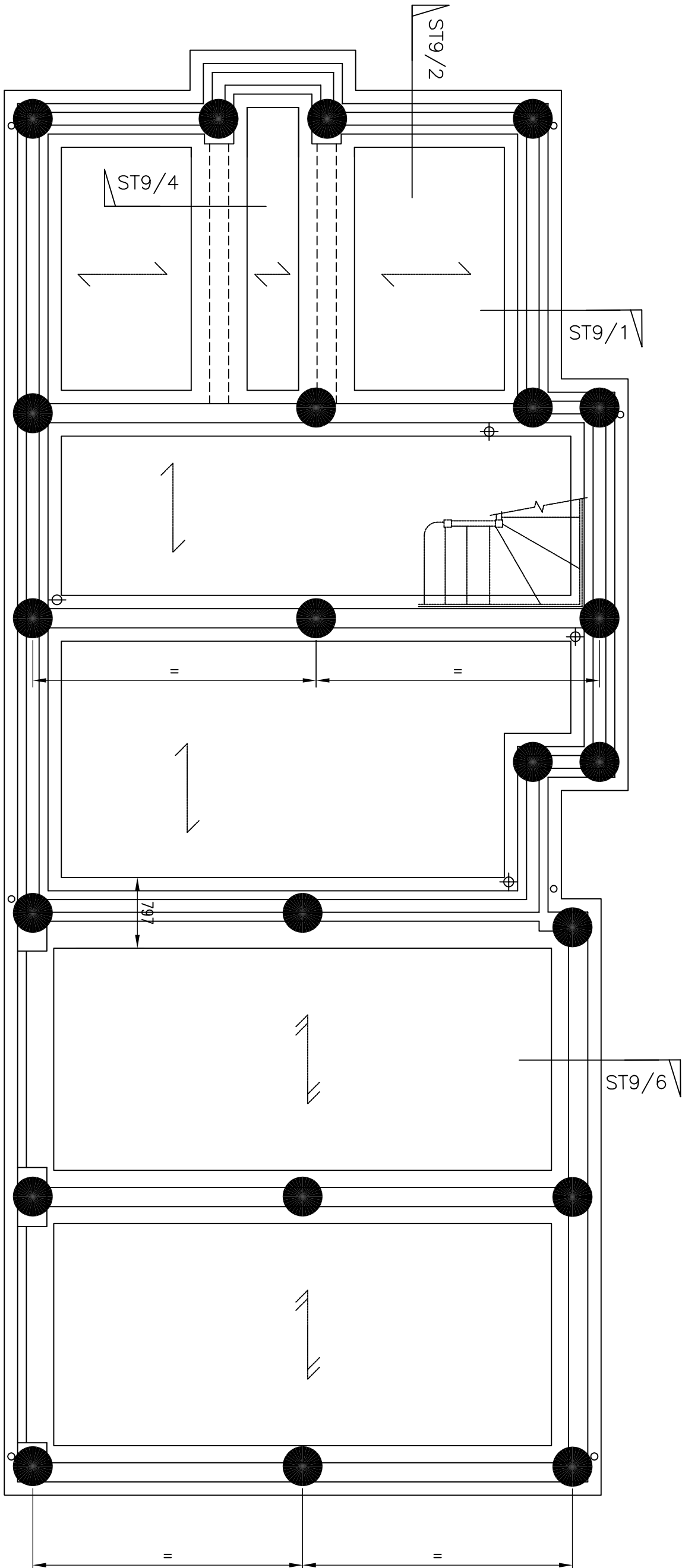
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|----------------------|--|-----------------------------------|--|--|
| Client               |  | FOREMAN HOMES LTD                 |  |  |
| Project              |  | RANELAGH ROAD, HAVANT             |  |  |
| Drawing Title        |  | SUBSTRUCTURE/GROUND FLOOR LAYOUTS |  |  |
| Plots                |  | 12-13, 14, 15, 16, 17, 71 & 77    |  |  |
| Company              |  | HAMILL DAVIES LIMITED             |  |  |
| Purpose              |  | PRELIMINARY                       |  |  |
| Designed             |  | 1:50 @ A1                         |  |  |
| Drawing Number       |  | 14-2260-102                       |  |  |
| Version              |  | P1                                |  |  |
| Structural Engineers |  | Telephone 01489 893 596           |  |  |



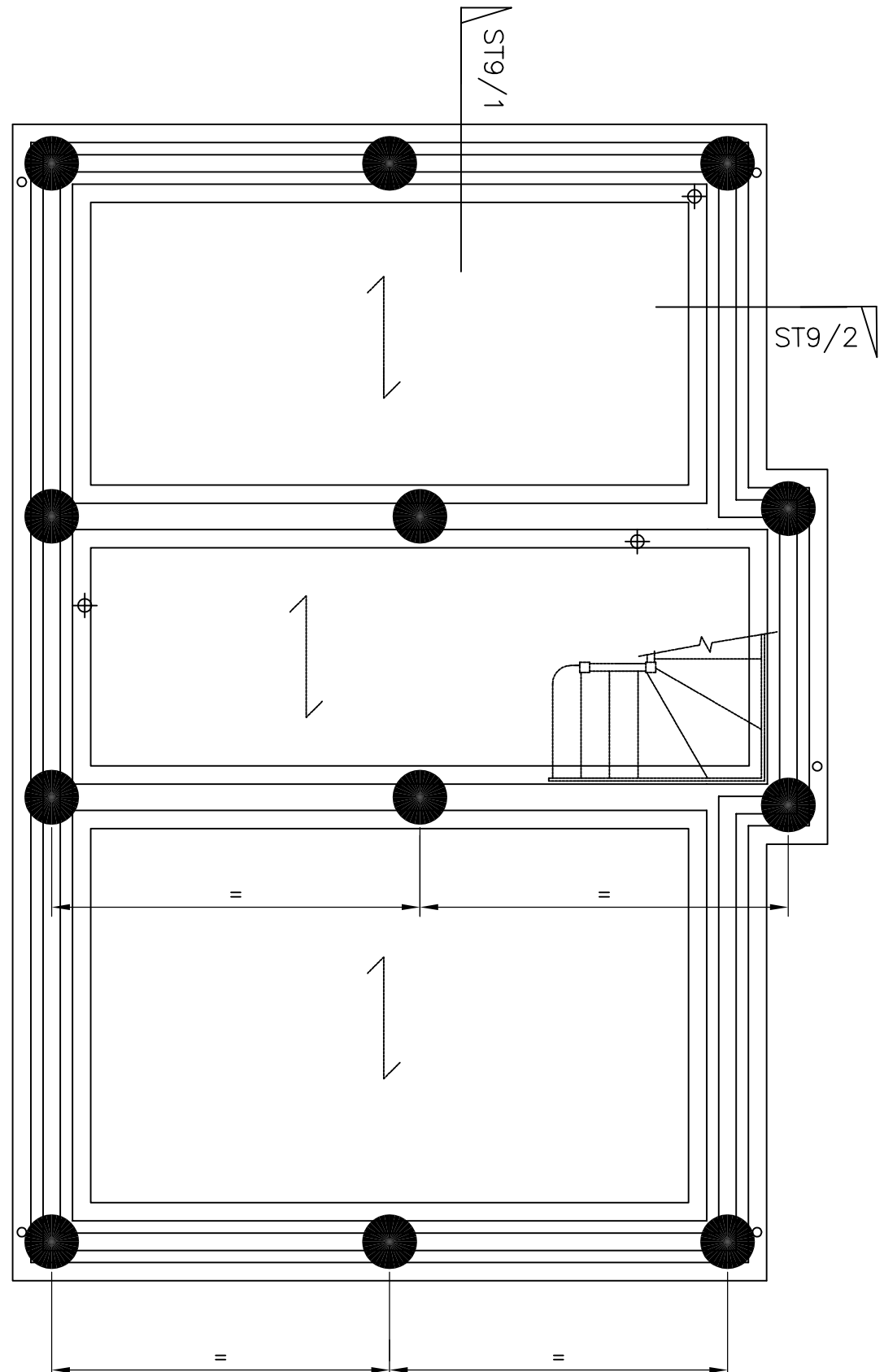
Foundation Layout (1No)  
Houses - Plots 12-13



Foundation Layout (4No)  
Houses - Plots 15, 17, 71 & 77



Foundation Layout (1No)  
House - Plot 16



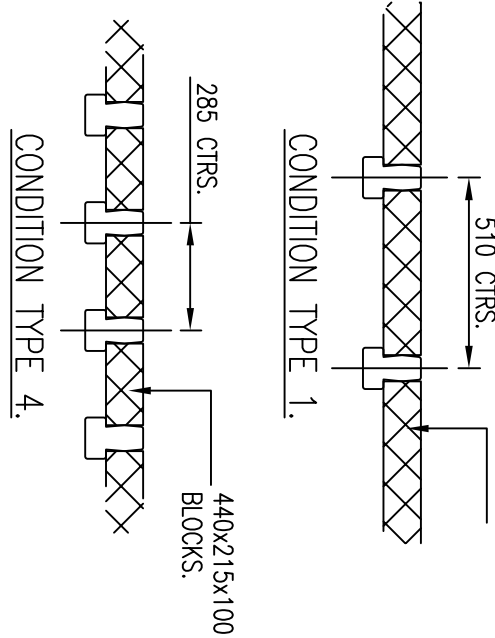
Foundation Layout (1No)  
House - Plot 14

- GROUND FLOOR NOTES:
- G1. ALL BLOCKWORK BELOW GROUND FLOOR LEVEL TO BE 10N/mm<sup>2</sup> COMPRESSIVE STRENGTH DENSE CONCRETE BLOCKS [MORTAR DESIGNATION (m) UNO.].
- G2. GROUND FLOOR LOADINGS:-  
FLOOR SMT (ASSUMED) = 2.5 kN/m<sup>2</sup>  
FLOOR FINISHES = 1.9kN/m<sup>2</sup>  
STUD PARTITIONS = 1.0 kN/m OR 1.0 kN/m<sup>2</sup>  
IMPOSED = 1.5 kN/m<sup>2</sup> (GARAGE 2.5kN/m<sup>2</sup>)

KEY:

- INDICATES 215 THICK STEEPER WALLS
- INDICATES BLOCKWORK INTERNAL WALL
- INDICATES SPAN DIRECTION OF 155 DP. PCC BEAM AND BLOCK FLOOR SYSTEM.
- INDICATES SPAN DIRECTION OF 150M THICK RC SLAB DS-3/AC-3 INSTITU CONCRETE SLAB WITH A393 WESH TOP & BTM 40mm COVER

FLOOR BEAM CONDITION TYPES



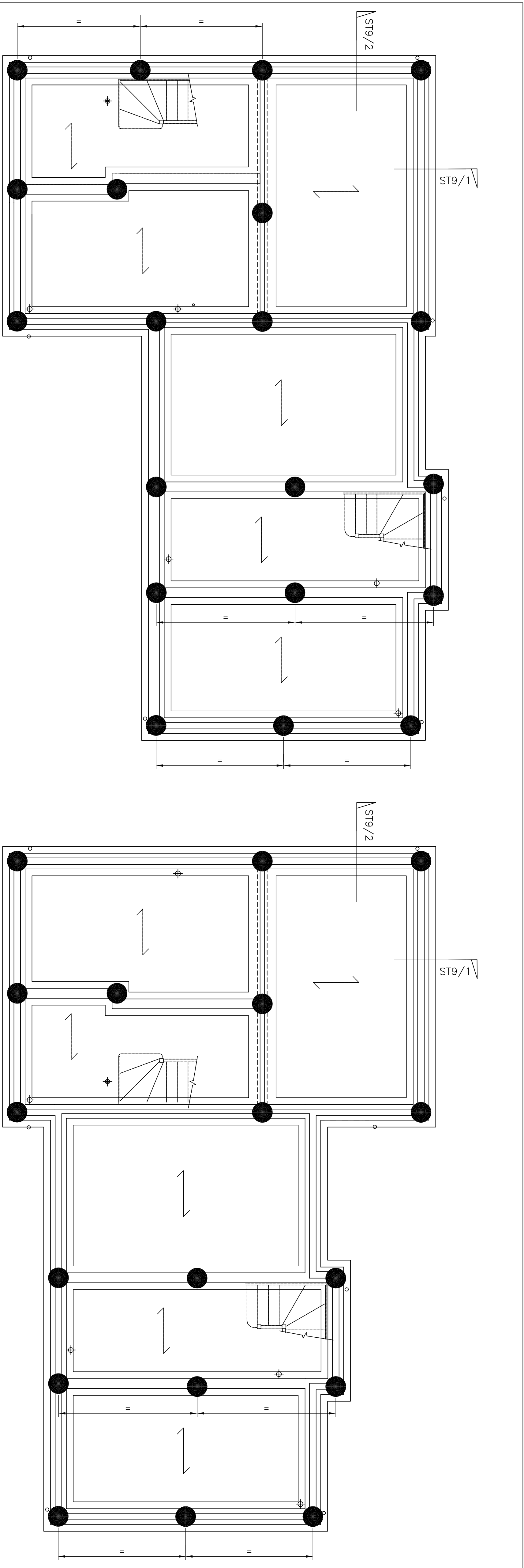
TOC 675mm  
BELOW FFL

REFER TO MAKE DRAWINGS AND EXTERNAL WORKS DRAWINGS FOR LOCATION OF SERVICE ENTRY POINTS.

ALL GROUND BEAMS ARE 600 WIDE x 500 DEEP UNLESS NOTED OTHERWISE

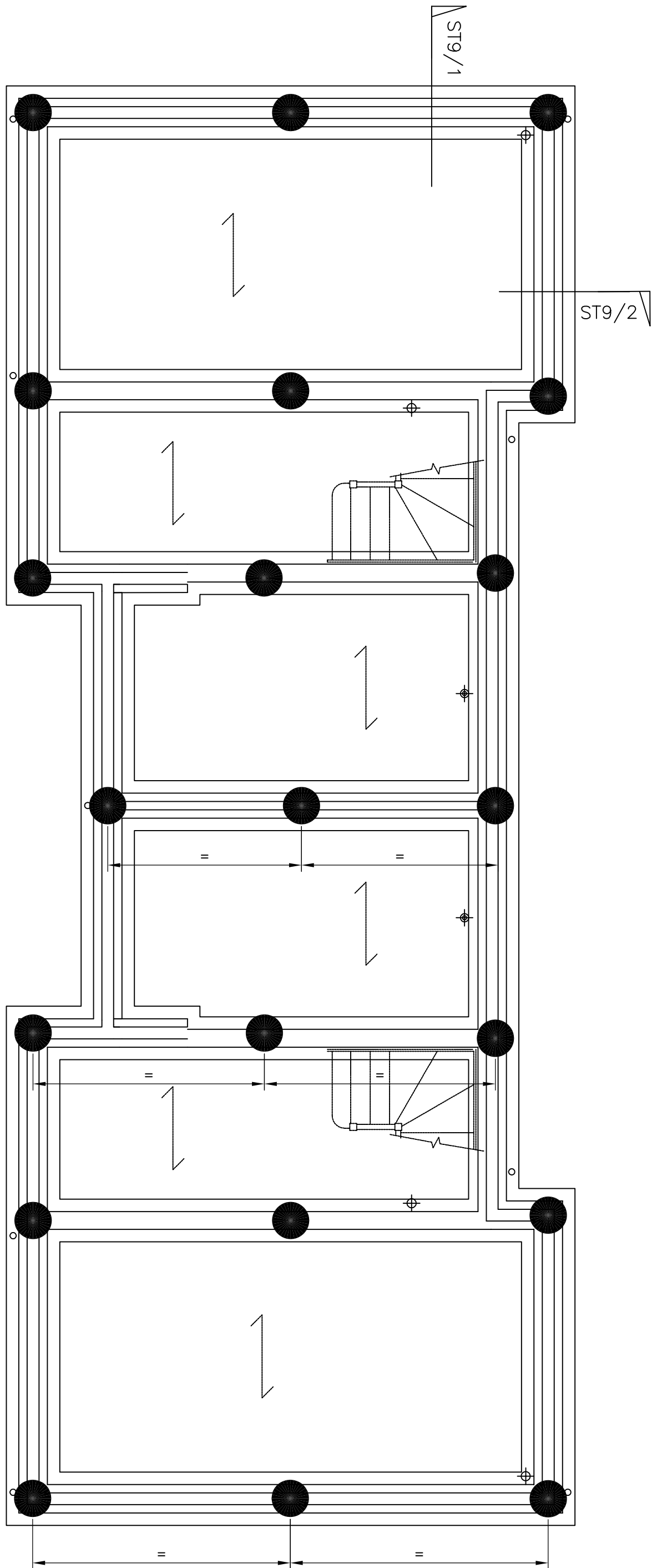
GROUND BEAM REINFORCEMENT  
ESTIMATE 175 kg/m<sup>3</sup>

REFER TO HDL STANDARD  
Drg. Nos. ST 2 & 9



Foundation Layout (1No)  
Houses – Plots 18-19

Foundation Layout (1No)  
Houses – Plots 20-21



Foundation Layout (5No)  
Houses – Plots 22-23, 24-25, 32-33, 34-35 & 36-37

NOTES:

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PILING NOTES

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  - P8. PILES TO PENETRATE 75mm INTO UNDERSIDE OF GROUND BEAM.
- CONCRETE NOTES:
- B1. ALL CONCRETE FOR SUBSTRUCTURE TO BE GRADE RC40 IN ACCORDANCE WITH CLASS DS-1/AC-1 TO BRE SPECIAL DIGEST 1.
  - B2. ALL STRUCTURAL CONCRETE TO BE CAST AGAINST FORMWORK OR ON 50mm BUNDLING CONCRETE.
  - B3. FORMED SURFACES – THE IRREGULARITIES IN THE FINISH SHALL BE NO GREATER THAN THOSE OBTAINED FROM THE USE OF THE WROUGHT THICKNESS SQUARE EDGE BOARDS ARRANGED IN A UNIFORM PATTERN. THE FINISH IS INTENDED TO BE LEFT AS STRUCK BUT IMPERFECTIONS SUCH AS FINS AND SPALLS AND DISCOLORATION SHALL BE MADE GOOD TO THE APPROVAL OF THE ENGINEER.
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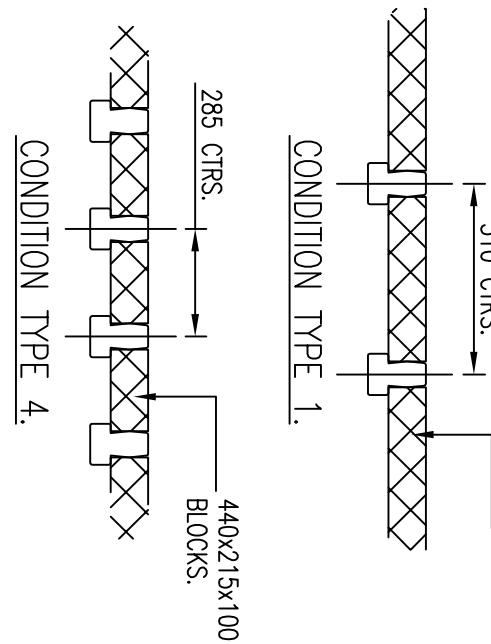
GROUND FLOOR NOTES:

- G1. ALL BLOCKWORK BELOW GROUND FLOOR LEVEL TO BE 10N/m<sup>2</sup> COMPRESSIVE STRENGTH DENSE CONCRETE BLOCKS [MORTAR DESIGNATION (m) UNO.]
- G2. GROUND FLOOR LOADINGS:-  
FLOOR SWT (ASSUMED) = 2.5 kN/m<sup>2</sup>  
FLOOR FINISHES = 1.9kN/m<sup>2</sup>  
STUD PARTITIONS = 1.0 kN/m OR 1.0 kN/m<sup>2</sup>  
IMPOSED = 1.5 kN/m<sup>2</sup> (GARAGE 2.5kN/m<sup>2</sup>)

KEY:

- INDICATES 215 THICK STEEPER WALLS
- INDICATES BLOCKWORK INTERNAL WALL
- INDICATES SPAN DIRECTION OF 155 DP PCC BEAM AND BLOCK FLOOR SYSTEM
- INDICATES SPAN DIRECTION OF 150W THICK RC SHAPE C40 DS-3/AC-3 INSITU CONCRETE SLAB WITH A393 WESH TOP & BTM 40mm COVER

FLOOR BEAM CONDITION TYPES



TOC 675mm  
BELOW FFL

REFER TO MAKE DRAWINGS AND EXTERNAL WORKS DRAWINGS FOR LOCATION OF SERVICE ENTRY POINTS.

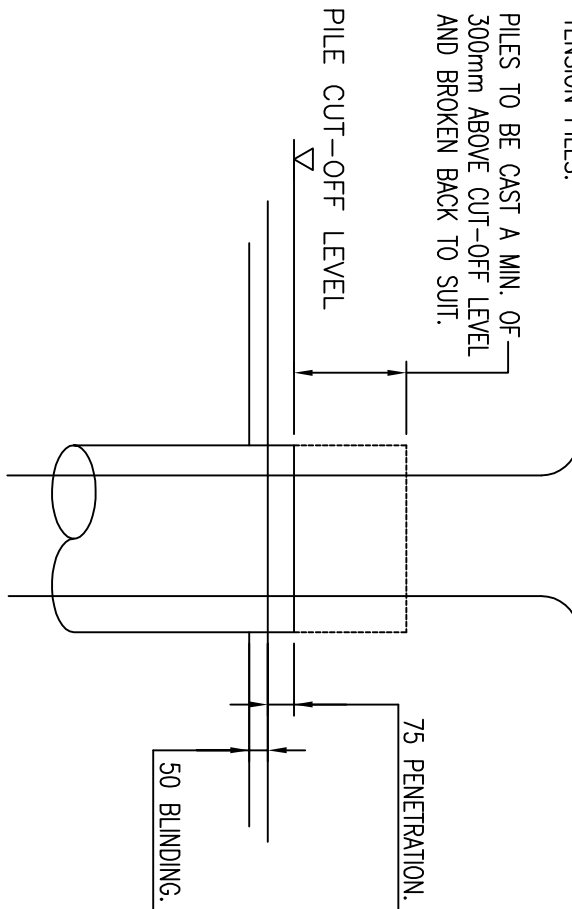
ALL GROUND BEAMS ARE 600 WIDE x 500 DEEP UNLESS NOTED OTHERWISE

GROUND BEAM REINFORCEMENT  
ESTIMATE 175 kg/m<sup>3</sup>

REFER TO HDL STANDARD  
Drg. Nos. ST 2 & 9

PILE REINFORCEMENT  
PENETRATION DETAIL.

N.T.S.



PILE CUT-OFF LEVEL = 1.1m BELOW FFL

PILE LEGEND

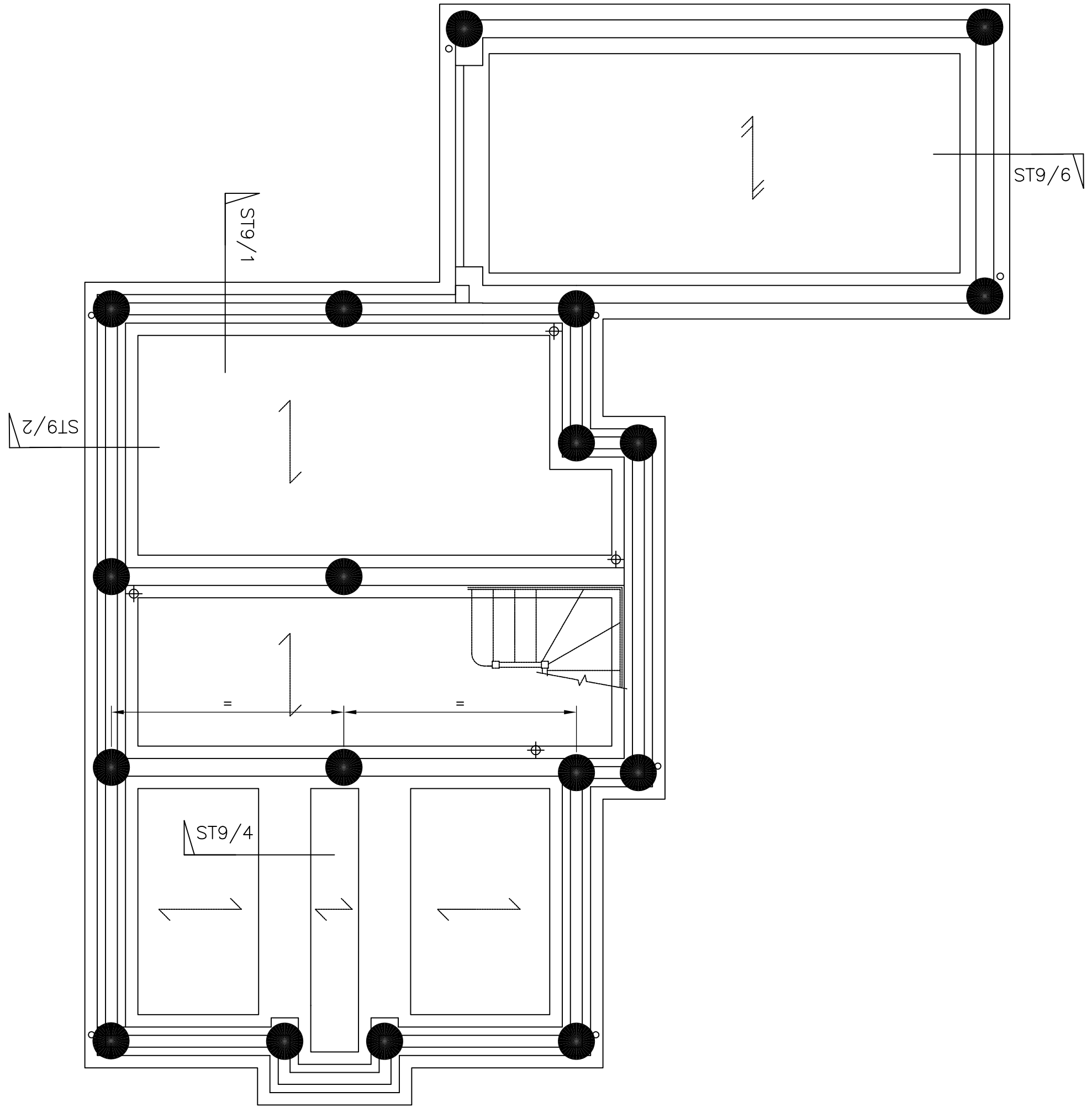
350 kN WORKING CAPACITY PILE (450 DIA)

TOTAL 143

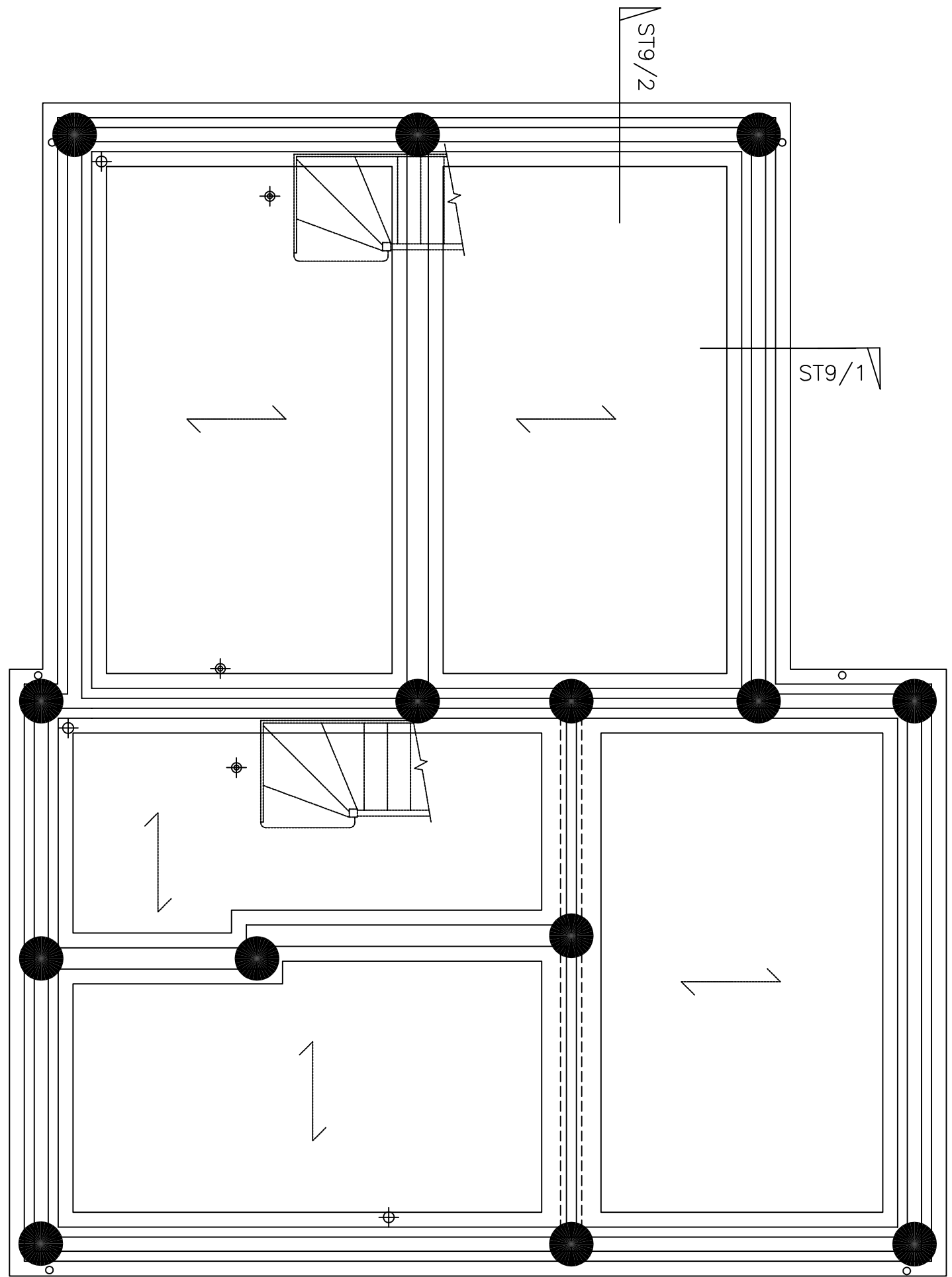
PRELIMINARY

| Version                    | Revised     | Drawn    | Checked  | Approved |
|----------------------------|-------------|----------|----------|----------|
| P1                         | PRELIMINARY | HD/06.14 | HD/06.14 | HD/06.14 |
| ORIGINAL DRAWING SIZE - A1 |             |          |          |          |
| CADD REF. : X-RECS :       |             |          |          |          |

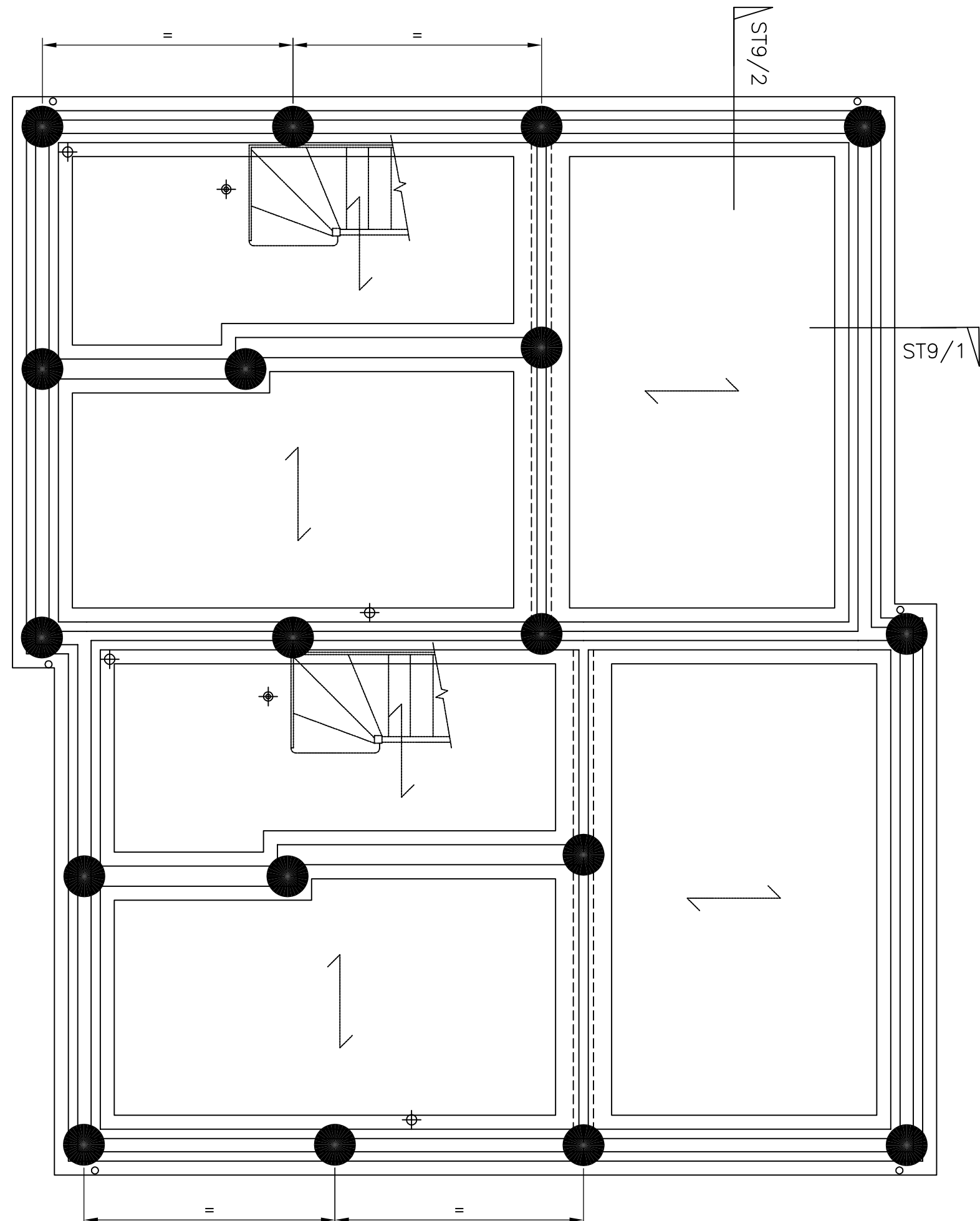
|                                            |  |                                                         |  |
|--------------------------------------------|--|---------------------------------------------------------|--|
| Client: FORGLAN HOMES LTD                  |  | Project: RANELAGH ROAD, HAVANT                          |  |
| Drawing: SUBSTRUCTURE/GROUND FLOOR LAYOUTS |  | Plots: 18-19, 20-21, 22-23, 24-25, 32-33, 34-35 & 36-37 |  |
| HAMILL DAVIES LIMITED                      |  | Purpose: PRELIMINARY                                    |  |
| Consulting Civil                           |  | Drawn: HDL                                              |  |
| Working Office: SWANMORE                   |  | Designed: 1:50 @ A1                                     |  |
| Telephone: 01489 893 596                   |  | Drawing Number: 14-2260-103                             |  |
|                                            |  | Version: P1                                             |  |



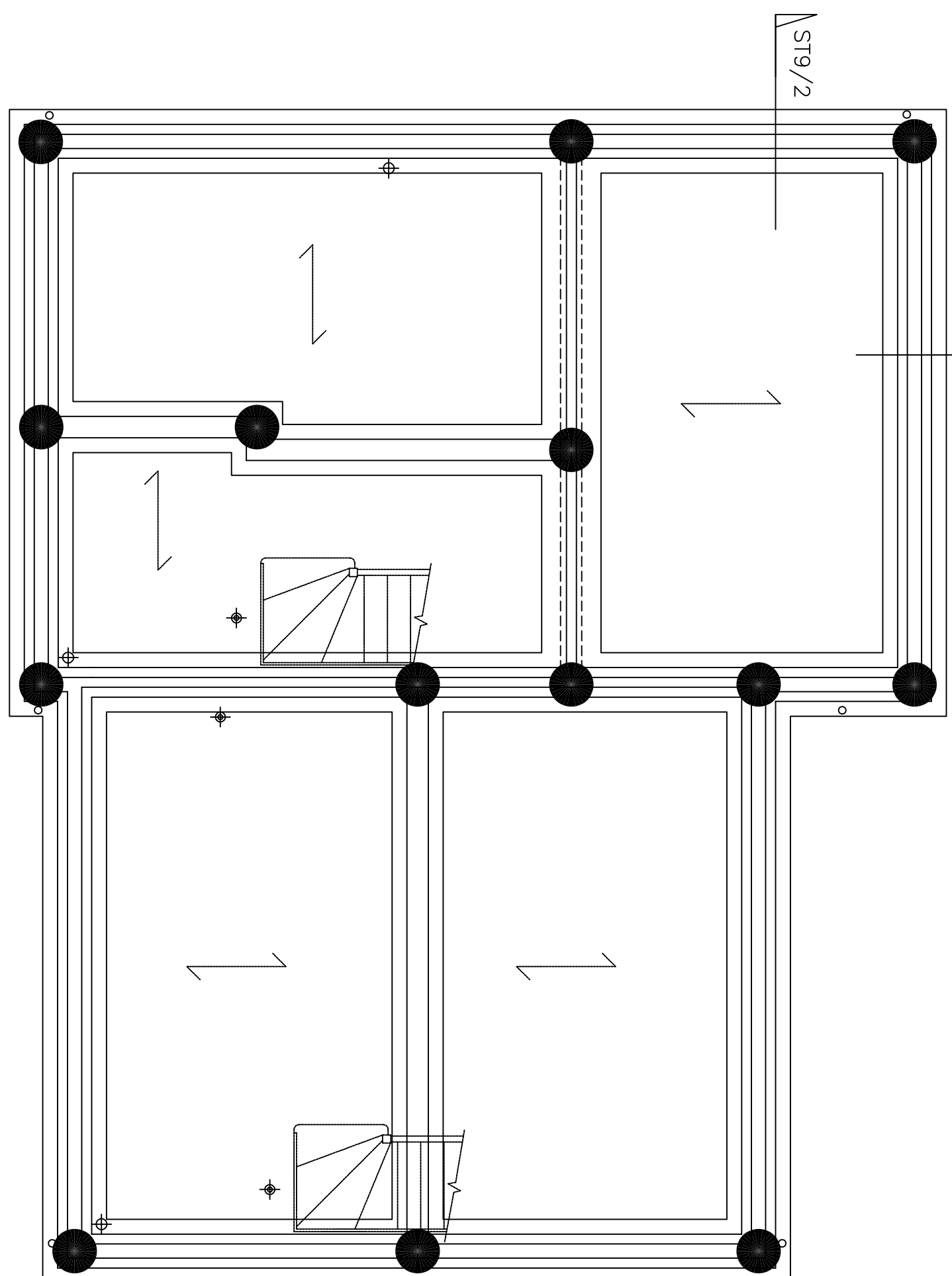
Foundation Layout (1No)  
House - Plot 42



Foundation Layout (1No)  
Houses - Plots 53-54



Foundation Layout (1No)  
Houses - Plots 49-50



Foundation Layout (1No)  
Houses - Plots 55-56

NOTES:

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- P8. PILES TO PENETRATE 75mm INTO UNDERSIDE OF GROUND BEAM.

CONCRETE NOTES:

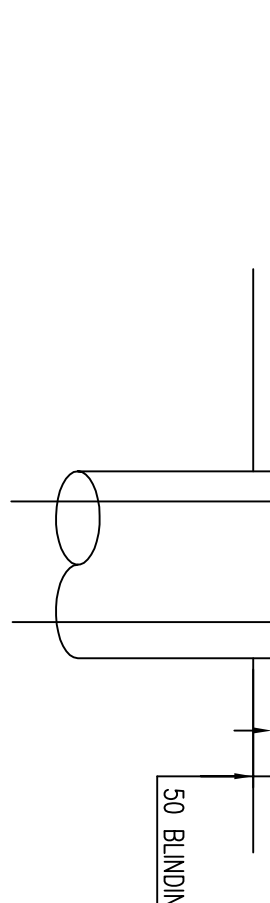
- B1. ALL CONCRETE FOR SUBSTRUCTURE TO BE GRADE RC40 IN ACCORDANCE WITH CLASS DS-1/AC-1 TO BRE SPECIAL DIGEST 1.
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- B3. FORMED SURFACES - THE IRREGULARITIES IN THE FINISH SHALL BE NO GREATER THAN THOSE OBTAINED FROM THE USE OF THE WROUGHT THICKNESS SQUARE EDGE BOARDS ARRANGED IN A UNIFORM PATTERN. THE FINISH IS INTENDED TO BE LEFT AS STRUCK BUT IMPERFECTIONS SUCH AS FINS AND SPALLS OR DISCOLORATION SHALL BE MADE GOOD TO THE APPROVAL OF THE ENGINEER.
- B4. UNFORMED SURFACES - AFTER THE CONCRETE HAS HARDENED SUFFICIENTLY THE UNFORMED SURFACE SHALL BE FLOATED BY HAND TO PRODUCE A UNIFORM SURFACE FREE FROM SORED MARKS.

REINFORCEMENT PENETRATION INTO PILE CAP SHALL BE A MINIMUM OF 600mm PLUS 200mm BOB EXCEPT AT TENSION PILES.

PILES TO BE CAST A MIN. OF 500mm ABOVE CUT OFF LEVEL AND BROKEN BACK TO SOIL.

75 PENETRATION.

50 BUNDING.



PILE REINFORCEMENT  
PENETRATION DETAIL.

N.T.S.

PILE CUT-OFF LEVEL = 1.1m BELOW FFL

| PILE LEGEND |                                        | No. OFF |
|-------------|----------------------------------------|---------|
|             | 350 kN WORKING CAPACITY PILE (450 DIA) | 64      |
| TOTAL       |                                        | 64      |

PRELIMINARY

| Version                    | Author/checked | Drawn     | Checked   | Approved  |
|----------------------------|----------------|-----------|-----------|-----------|
| P1                         | PRELIMINARY    | HDJ/06.14 | HDJ/06.14 | HDJ/06.14 |
| ORIGINAL DRAWING SIZE - A1 |                |           |           |           |
| X-REFS :                   |                |           |           |           |
| CAD REF.                   |                |           |           |           |

**HDL**  
HAMILL DAVIES  
LIMITED  
Consulting Civil  
Structural Engineers

Client: FOREMAN HOMES LTD

Project: RANELAGH ROAD, HAVANT

Drawing Title: SUBSTRUCTURE/GROUND FLOOR LAYOUTS  
PLOTS 42, 49-50, 53-54, & 55-56

Purpose: PRELIMINARY

Drawn: HDJ, Scale: 1:50 @ A1

Designed: [Signature]

Working Dates: SWANMORE 14-2260-104

Telephone: 01489 893 596

REFER TO HDL STANDARD  
Drg. Nos. ST 2 & 9

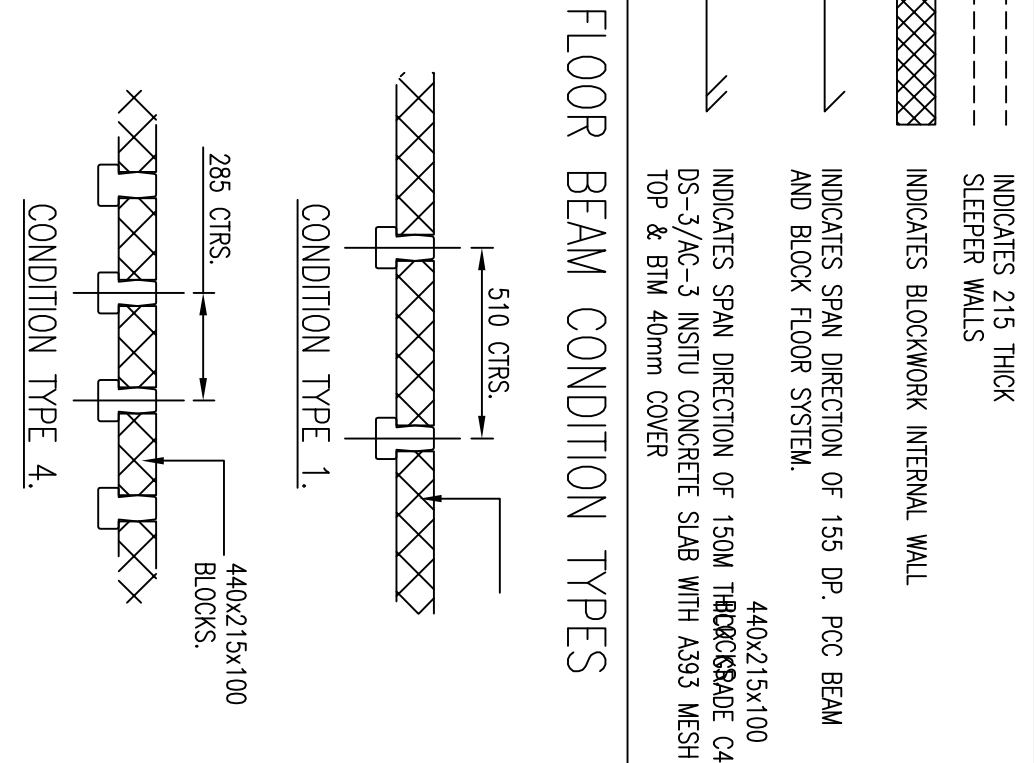
GROUND BEAM REINFORCEMENT  
ESTIMATE 175 kg/m<sup>3</sup>

REFER TO MAKE DRAWINGS AND EXTERNAL  
WORKS DRAWINGS FOR LOCATION OF SERVICE  
ENTRY POINTS.

ALL GROUND BEAMS ARE 600 WIDE x 500  
DEEP UNLESS NOTED OTHERWISE

TOC 675mm  
BELOW FFL

FLOOR BEAM CONDITION TYPES



- GROUND FLOOR NOTES:
- G1. ALL BLOCKWORK BELOW GROUND FLOOR LEVEL TO BE 10N/m<sup>2</sup> COMPRESSIVE STRENGTH DENSE CONCRETE BLOCKS [MORTAR DESIGNATION (ii) UNO<sub>2</sub>].
  - G2. GROUND FLOOR LOADINGS:-  
FLOOR SWT (ASSUMED) = 2.5 kN/m<sup>2</sup>  
FLOOR FINISHES = 1.9kN/m<sup>2</sup>  
STUD PARTITIONS = 1.0 kN/m OR 1.0 kN/m<sup>2</sup>  
IMPOSED = 1.5 kN/m<sup>2</sup> (GARAGE 2.5kN/m<sup>2</sup>)

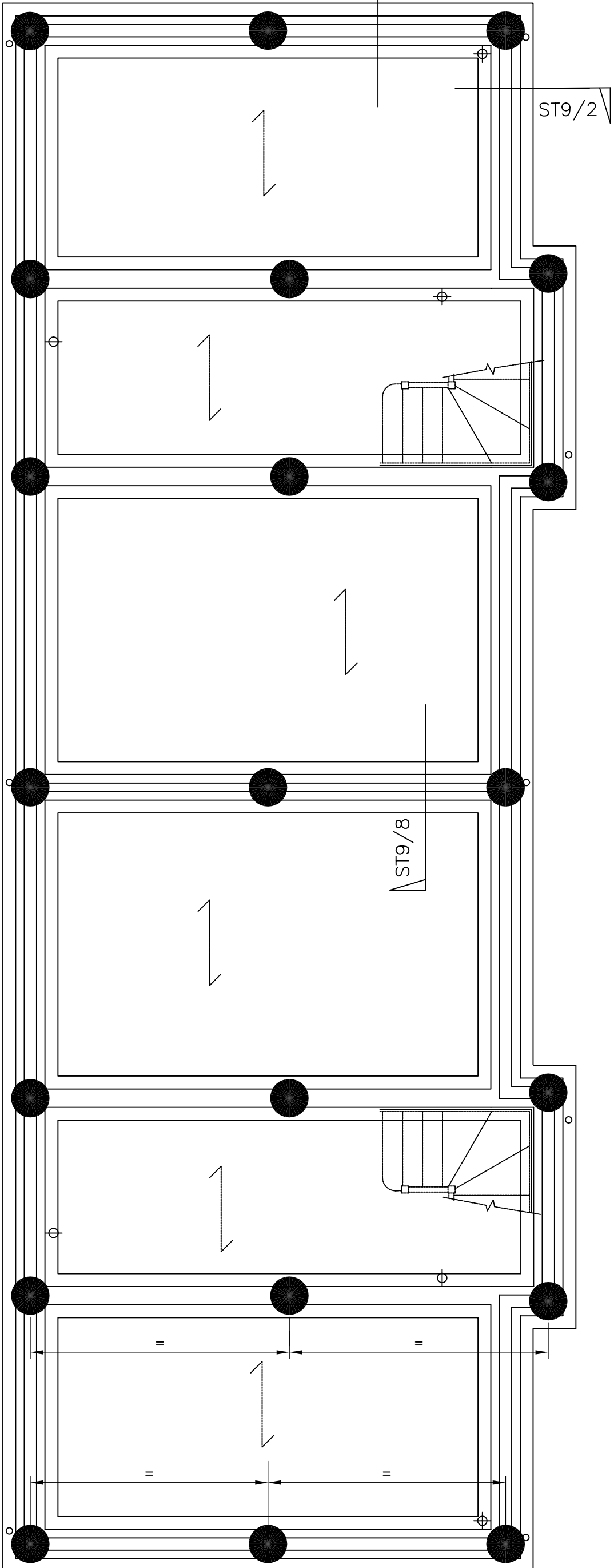
KEY:

NOTES:

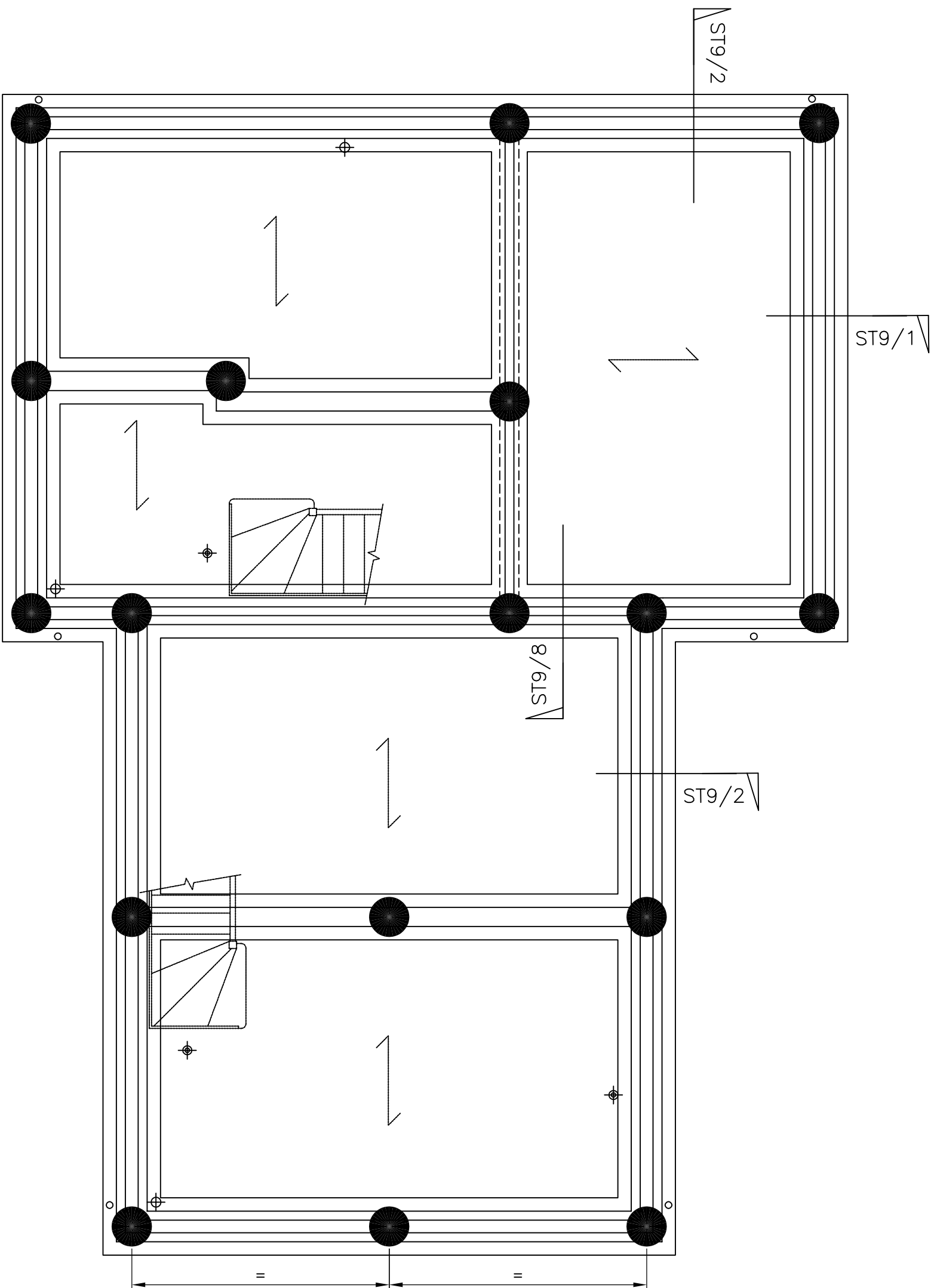
1. THIS DRAWING IS COPYRIGHT AND SHOULD NOT BE REPRODUCED WITHOUT APPROVAL.
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3. ANY DIMENSIONS/LEVELS INDICATED 'rel' REFER TO ASSUMED/EXISTING DIMENSIONS WHICH ARE TO BE SITE CHECKED PRIOR TO THE COMMENCEMENT OF ANY WORK.

PILING NOTES

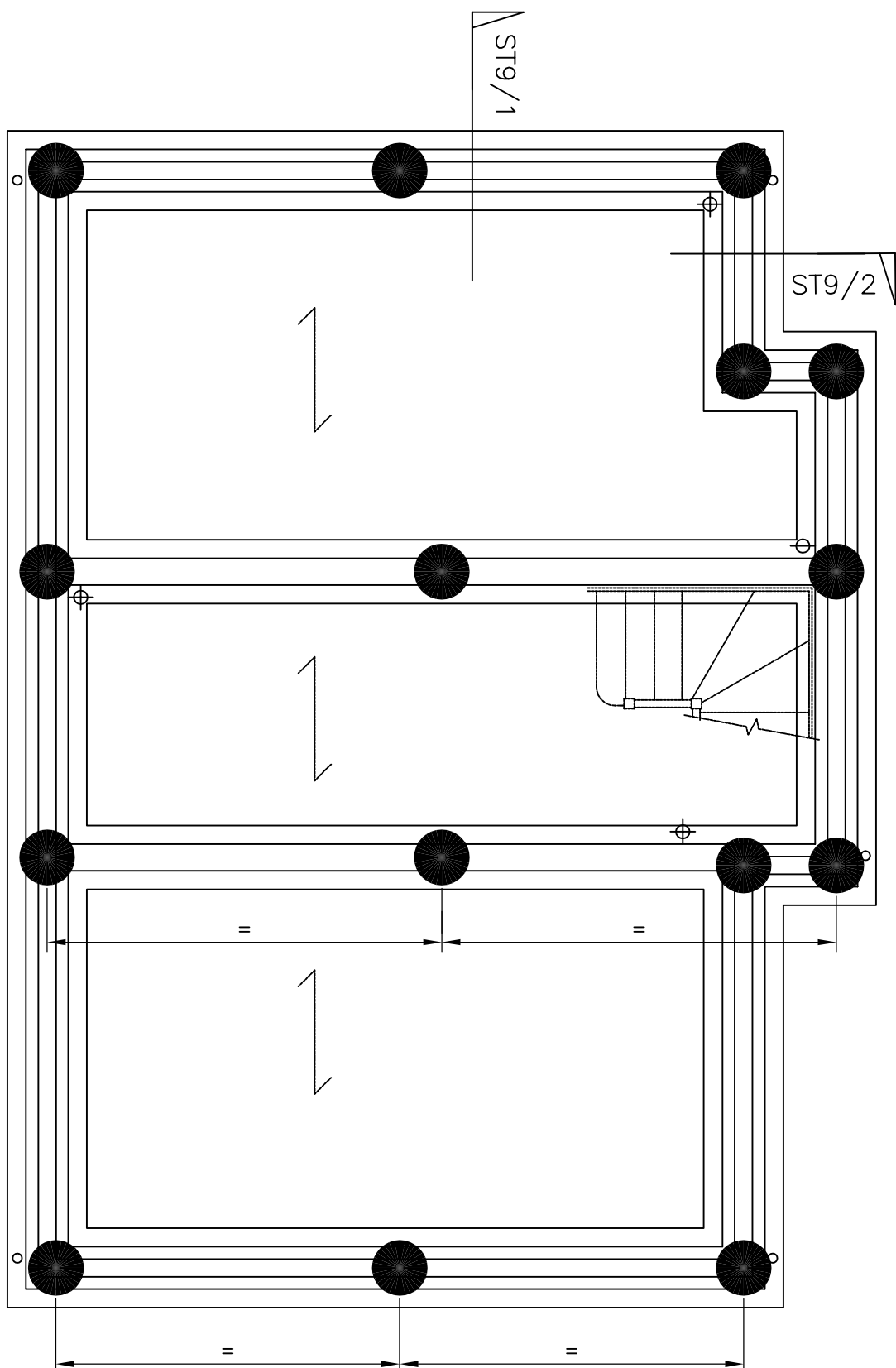
- P1. ALL PILES TO BE DESIGNED, CONSTRUCTED AND TESTED BY THE PILING SUBCONTRACTOR IN ACCORDANCE WITH THE PARTICULAR SPECIFICATION FOR PILING WORKS.
- P2. PILE DIAMETERS SHOWN ARE 450mm DIAMETER AND SHOULD NOT BE ALTERED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER AS PILES HAVE BEEN SET OUT AND PILE CAPS DETAILED ON THE BASIS OF THE PILE DIAMETERS INDICATED.
- P3. CONCRETE FOR THE PILES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS FOR CLASS DS-1/AC-1 CONDITIONS OF EXPOSURE AS CLASSIFIED IN BRE SPECIAL DIGEST 1.
- P4. SUFFICIENT REINFORCEMENT LENGTH ABOVE PILE CUT OFF LEVEL TO BE PROVIDED TO ENSURE SUFFICIENT CONTINUITY OF LOAD PATH INTO THE PILE CAPS FOR ALL LOAD CASES.
- P5. ALL SETTING OUT DIMENSIONS ARE TO CENTRE LINE OF PILES UNLESS NOTED OTHERWISE.
- P6. THE LOAD CAPACITIES SHOWN ARE UNFACTORED WORKING LOADS AND DO NOT INCLUDE FOR DOWN DRAG DUE TO NEGATIVE SKIN FRICTION OR THE SELF WEIGHT OF THE PILE. THE PILING SUBCONTRACTOR SHALL MAKE DUE ALLOWANCE WITHIN HIS DESIGN FOR THE SELF WEIGHT OF THE PILE AND THE EFFECTS OF NEGATIVE SKIN FRICTION.
- P7. ALL PILES SHALL BE DESIGNED TO RESIST A NOMINAL MOMENT EQUAL TO THE PILE CAPACITY MULTIPLIED BY AN ECCENTRICITY OF 75mm.
- P8. PILES TO PENETRATE 75mm INTO UNDERSIDE OF GROUND BEAM.
- CONCRETE NOTES:
- B1. ALL CONCRETE FOR SUBSTRUCTURE TO BE GRADE RC40 IN ACCORDANCE WITH CLASS DS-1/AC-1 TO BRE SPECIAL DIGEST 1.
- B2. ALL STRUCTURAL CONCRETE TO BE CAST AGAINST FORMWORK OR ON 50mm BUNDING CONCRETE.
- B3. FORMED SURFACES - THE REGULARITIES IN THE FINISH SHALL BE NO GREATER THAN THOSE OBTAINED FROM THE USE OF THE WROUGHT THICKNESS SQUARE EDGE BOARDS ARRANGED IN A UNIFORM PATTERN. THE FINISH IS INTENDED TO BE LEFT AS STRUCK BUT IMPERFECTIONS SUCH AS FINS AND SPALLS AND DISCOLORATION SHALL BE MADE GOOD TO THE APPROVAL OF THE ENGINEER.
- B4. UNFORMED SURFACES - AFTER THE CONCRETE HAS HARDENED SUFFICIENTLY THE UNFORMED SURFACE SHALL BE FLOATED BY HAND TO PRODUCE A UNIFORM SURFACE FREE FROM SORED MARKS.



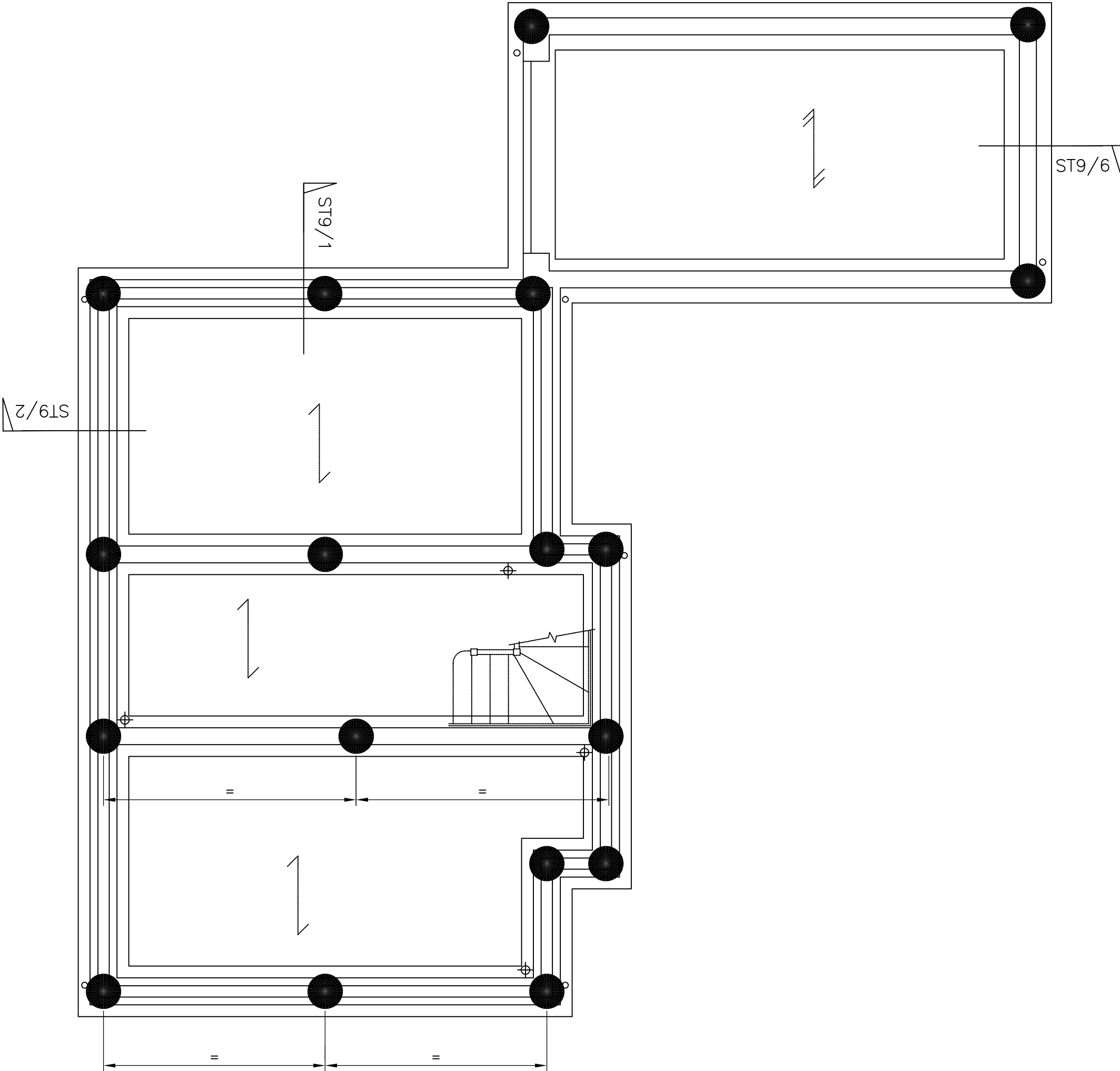
Foundation Layout (1No)  
Houses - Plots 72-73



Foundation Layout (1No)  
Houses - Plots 57-58



Foundation Layout (1No)  
House - Plot 70



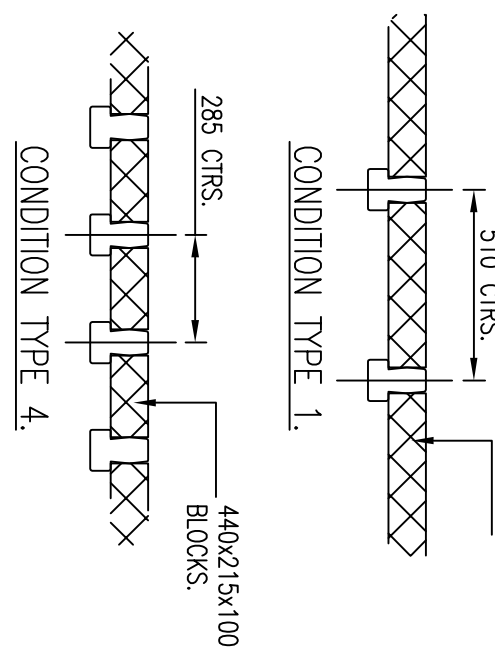
Foundation Layout (1No)  
House - Plot 69

- GROUND FLOOR NOTES:
- G1. ALL BLOCKWORK BELOW GROUND FLOOR LEVEL TO BE 10N/m<sup>2</sup> COMPRESSIVE STRENGTH DENSE CONCRETE BLOCKS [MORTAR DESIGNATION (ii) UNO.].
- G2. GROUND FLOOR LOADINGS:-  
FLOOR SWT (ASSUMED) = 2.5 kN/m<sup>2</sup>  
FLOOR FINISHES = 1.9kN/m<sup>2</sup>  
STUD PARTITIONS = 1.0 kN/m OR 1.0 kN/m<sup>2</sup>  
IMPOSED = 1.5 kN/m<sup>2</sup> (GARAGE 2.5kN/m<sup>2</sup>)

KEY:

- INDICATES 215 THICK STEEPER WALLS
- INDICATES BLOCKWORK INTERNAL WALL
- INDICATES SPAN DIRECTION OF 155 DP PCC BEAM AND BLOCK FLOOR SYSTEM.
- INDICATES SPAN DIRECTION OF 150M THICK RC40 DS-3/AC-3 INSITU CONCRETE SLAB WITH A393 WESH TOP & BTM 40mm COVER

FLOOR BEAM CONDITION TYPES



TOC 675mm  
BELOW FFL

REFER TO MAKE DRAWINGS AND EXTERNAL WORKS DRAWINGS FOR LOCATION OF SERVICE ENTRY POINTS.

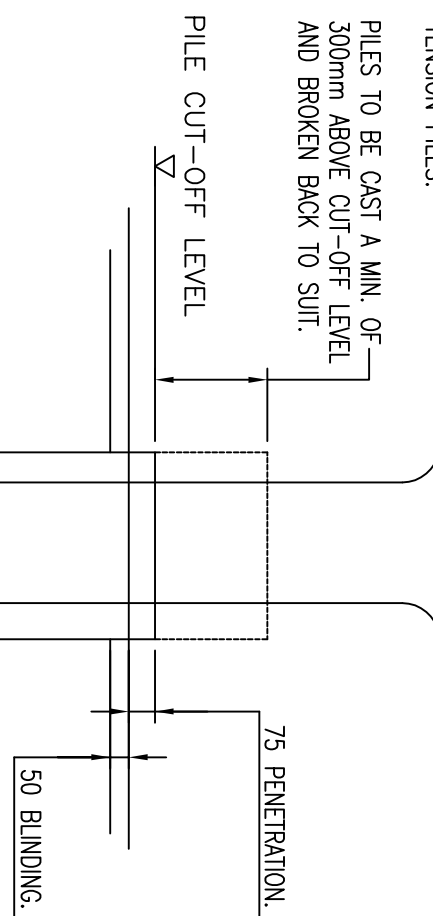
ALL GROUND BEAMS ARE 600 WIDE x 500 DEEP UNLESS NOTED OTHERWISE

GROUND BEAM REINFORCEMENT  
ESTIMATE 175 kg/m<sup>3</sup>

REFER TO HDL STANDARD  
Drg. Nos. ST 2 & 9

PILE REINFORCEMENT  
PENETRATION DETAIL.

N.T.S.



PILE CUT-OFF LEVEL = 1.1m BELOW FFL

PILE LEGEND

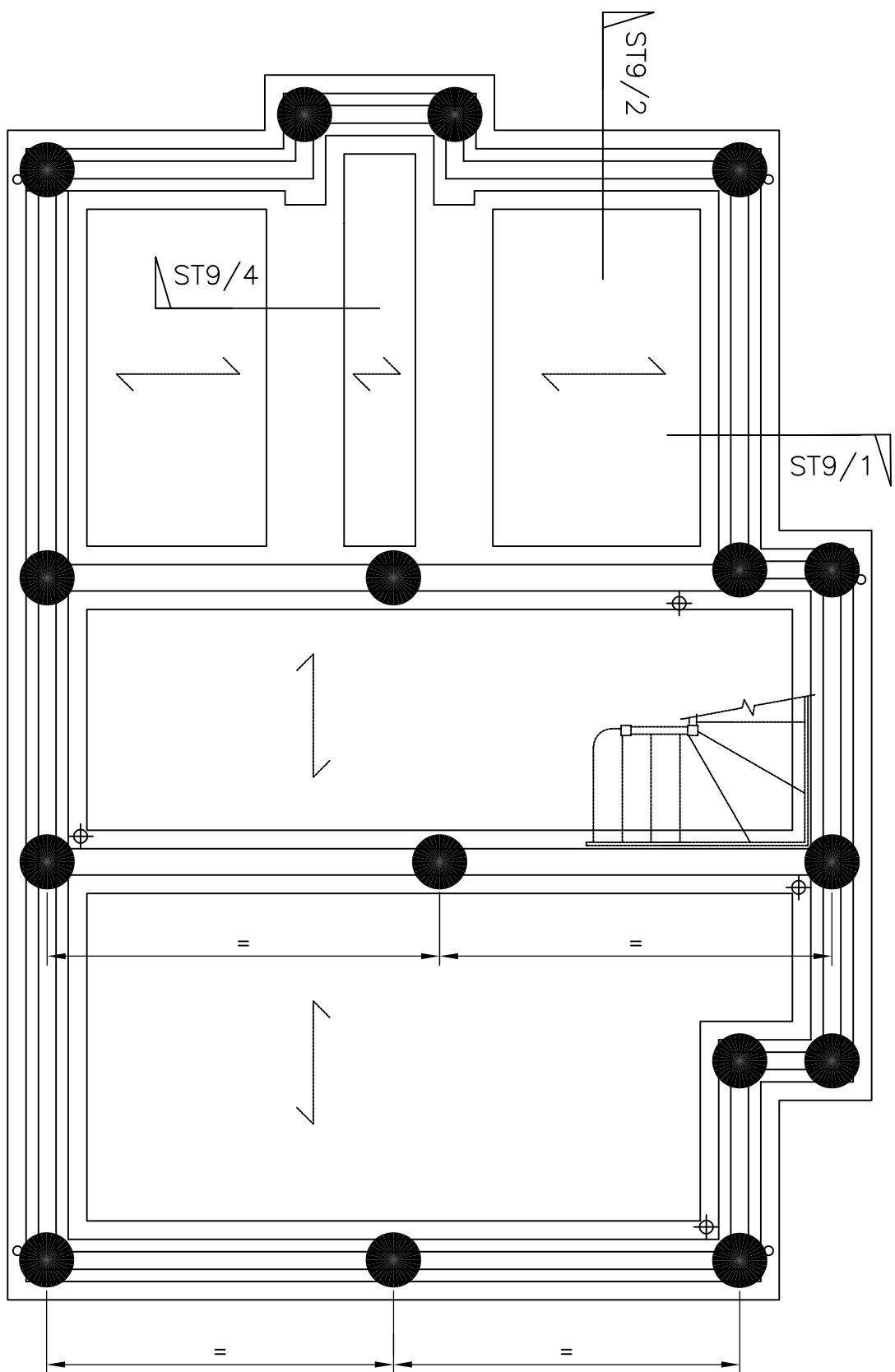
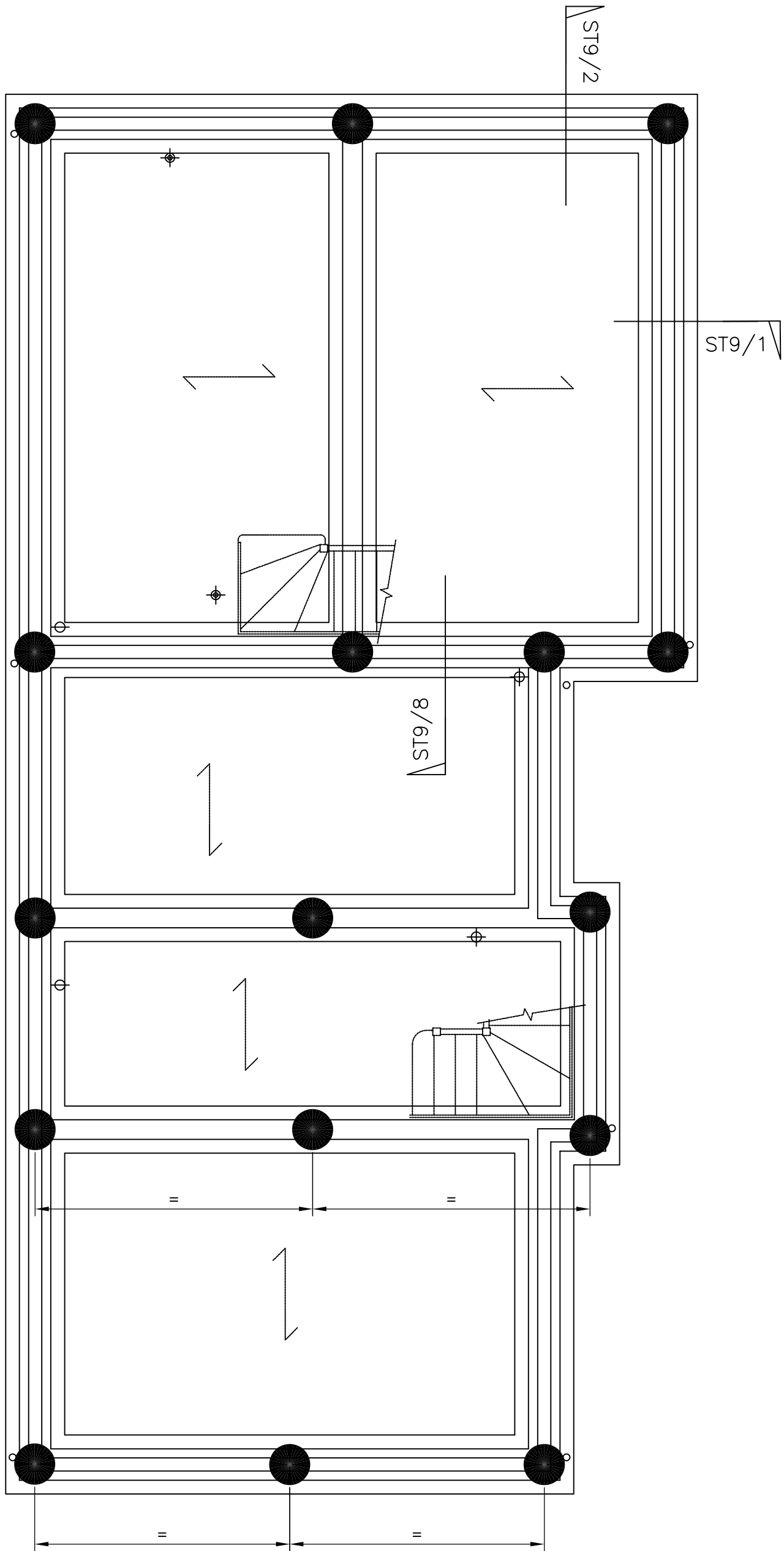
350 kN WORKING CAPACITY PILE (450 DIA)

TOTAL 71

PRELIMINARY

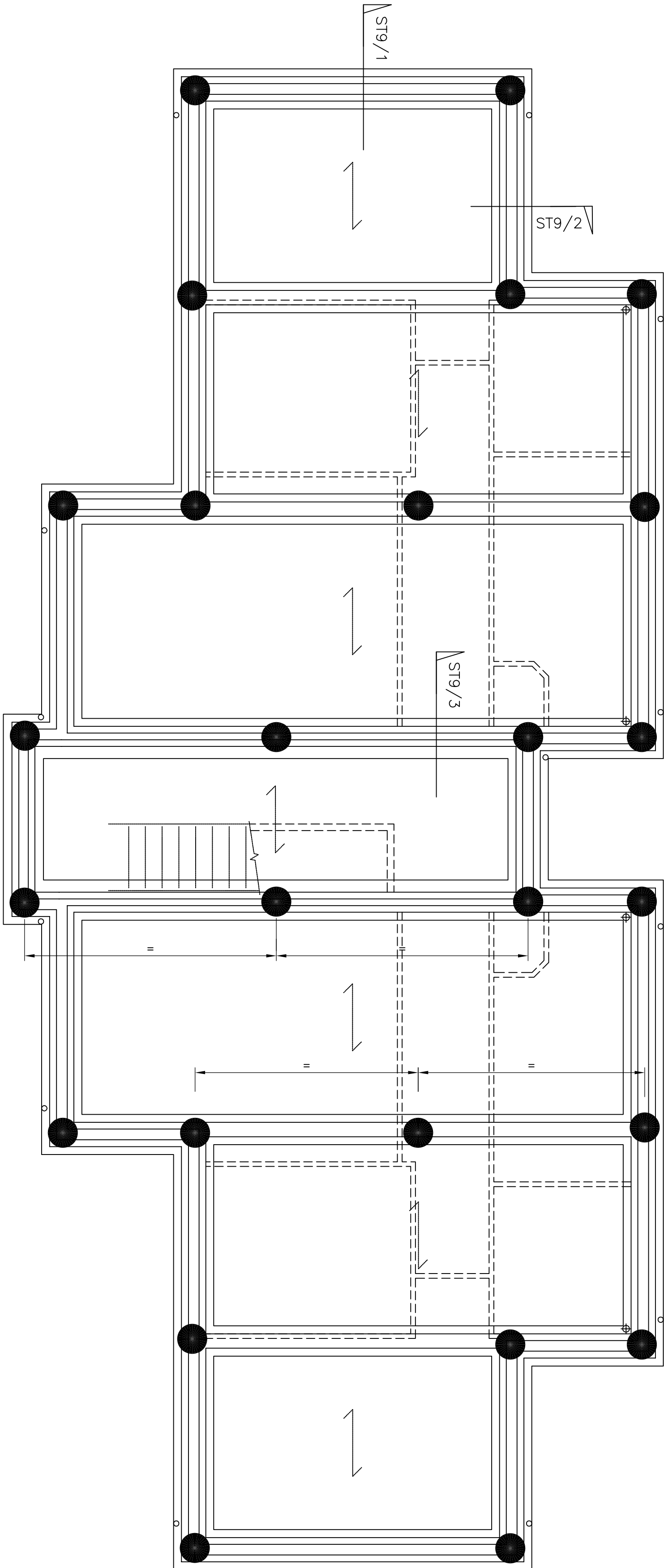
| Version                    | Author/checked | Drawn and date | Checked and date | Approved and date |
|----------------------------|----------------|----------------|------------------|-------------------|
| P1                         | PRELIMINARY    | HDJ/06.14      | HDJ/06.14        | HDJ/06.14         |
| ORIGINAL DRAWING SIZE - A1 |                |                |                  |                   |
| X-REFS: .                  |                |                |                  |                   |
| CDO REF: .                 |                |                |                  |                   |

|                                                  |  |                                |  |
|--------------------------------------------------|--|--------------------------------|--|
| Client: FOREMAN HOMES LTD                        |  | Project: RANELAGH ROAD, HAVANT |  |
| Drawing Title: SUBSTRUCTURE/GROUND FLOOR LAYOUTS |  | Plots 57-58, 69, 70, & 72-73   |  |
| HAMILL DAVIES LIMITED                            |  | Purpose: PRELIMINARY           |  |
| Consulting Civil                                 |  | Drawn: HDJ                     |  |
| Working Office: SWANMORE                         |  | Designed: 1:50 @ A1            |  |
| Telephone: 01489 893 596                         |  | Drawing Number: 14-2260-105    |  |
|                                                  |  | Version: P1                    |  |

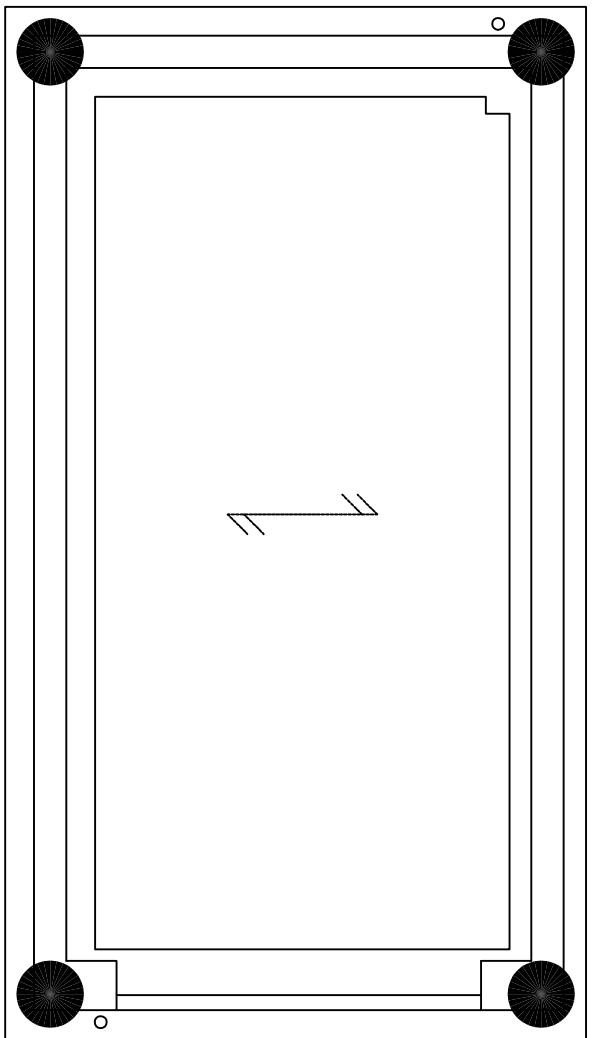


Foundation Layout (1No)  
Houses - Plots 74-75

Foundation Layout (3No)  
Houses - Plots 76, 78 & 79



Block Q



Foundation Layout (1No)  
Garage - Plot 70

NOTES:

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2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE ARCHITECT'S DRAWINGS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF BOTH PARTIES IMMEDIATELY.
3. ANY DIMENSIONS/LEVELS INDICATED 'rel' REFER TO ASSUMED/EXISTING DIMENSIONS WHICH ARE TO BE SITE CHECKED PRIOR TO THE COMMENCEMENT OF ANY WORK.

PILING NOTES

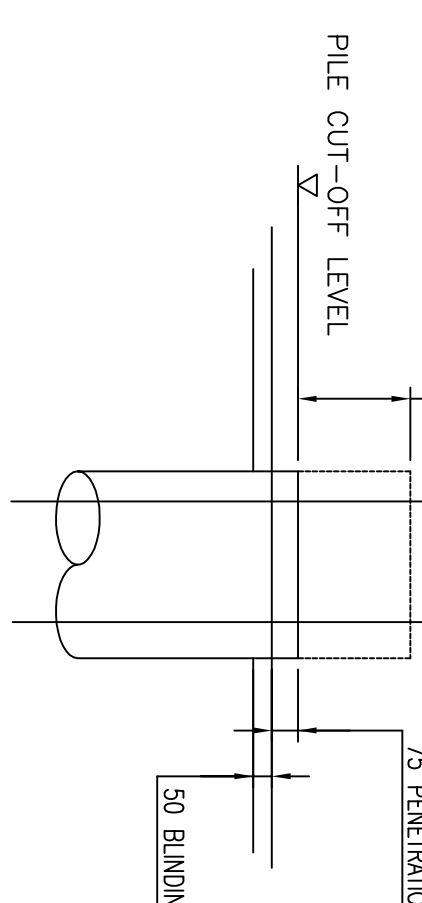
- P1. ALL PILES TO BE DESIGNED, CONSTRUCTED AND TESTED BY THE PILING SUBCONTRACTOR IN ACCORDANCE WITH THE PARTICULAR SPECIFICATION FOR PILING WORKS.
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- P4. SUFFICIENT REINFORCEMENT LENGTH ABOVE PILE CUT OFF LEVEL TO BE PROVIDED TO ENSURE SUFFICIENT CONTINUITY OF LOAD PATH INTO THE PILE CAPS FOR ALL LOAD CASES.
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- P7. ALL PILES SHALL BE DESIGNED TO RESIST A NOMINAL MOMENT EQUAL TO THE PILE CAPACITY MULTIPLIED BY AN ECCENTRICITY OF 75mm.
- P8. PILES TO PENETRATE 75mm INTO UNDERSIDE OF GROUND BEAM.

CONCRETE NOTES:

- B1. ALL CONCRETE FOR SUBSTRUCTURE TO BE GRADE RC40 IN ACCORDANCE WITH CLASS DS-1/AC-1 TO BRE SPECIAL DIBEST 1.
- B2. ALL STRUCTURAL CONCRETE TO BE CAST AGAINST FORMWORK OR ON 50mm BUNDING CONCRETE.
- B3. FORMED SURFACES - THE IRREGULARITIES IN THE FINISH SHALL BE NO GREATER THAN THOSE OBTAINED FROM THE USE OF THE WROUGHT THICKNESS SQUARE EDGE BOARDS ARRANGED IN A UNIFORM PATTERN. THE FINISH IS INTENDED TO BE LEFT AS STRUCK BUT IMPERFECTIONS SUCH AS FINS AND SPALLS OR DISCOLORATION SHALL BE MADE GOOD TO THE APPROVAL OF THE ENGINEER.
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REINFORCEMENT PENETRATION INTO PILE CAP SHALL BE A MINIMUM OF 600mm PLUS 200mm BOB EXCEPT AT TENSION PILES.

PILES TO BE CAST A MIN. OF 500mm BELOW CUT OFF LEVEL AND BROKEN BACK TO SOIL.



PILE REINFORCEMENT  
PENETRATION DETAIL.

N.T.S.

PILE CUT-OFF LEVEL = 1.1m BELOW FFL

| PILE LEGEND |                                        | No. OFF |
|-------------|----------------------------------------|---------|
|             | 350 kN WORKING CAPACITY PILE (450 DIA) | 94      |
| TOTAL       |                                        | 94      |

PRELIMINARY

|                            |             |            |           |           |
|----------------------------|-------------|------------|-----------|-----------|
| P1                         | PRELIMINARY | HD./06.14  | HD./06.14 | HD./06.14 |
| Version                    |             | Amendments | and date  | and date  |
| ORIGINAL DRAWING SIZE - A1 |             | X-REFS: .  |           |           |
| CDO REF.                   |             | .          |           |           |

|                      |  |                                   |              |                  |
|----------------------|--|-----------------------------------|--------------|------------------|
| Client               |  | FOREMAN HOMES LTD                 |              |                  |
| Project              |  | RANELAGH ROAD, HAVANT             |              |                  |
| Drawing Title        |  | SUBSTRUCTURE/GROUND FLOOR LAYOUTS |              |                  |
| Plots                |  | 74-75, 76, 78, 79                 |              |                  |
| Garage Plot          |  | 70 & BLOCK Q                      |              |                  |
| Company              |  | HAMILL DAVIES LIMITED             |              |                  |
| Purpose              |  | PRELIMINARY                       | Drawn: HDL   | Scale: 1:50 @ A1 |
| Drawing Number       |  | 14-2260-106                       | Designed: P1 | Version: P1      |
| Structural Engineers |  | Telephone: 01489 893 596          |              |                  |

TOC 675mm  
BELOW FFL

REFER TO MAKE DRAWINGS AND EXTERNAL  
WORKS DRAWINGS FOR LOCATION OF SERVICE  
ENTRY POINTS.

ALL GROUND BEAMS ARE 600 WIDE x 500  
DEEP UNLESS NOTED OTHERWISE.

GROUND BEAM REINFORCEMENT  
ESTIMATE 175 kg/m<sup>3</sup>

REFER TO HDL STANDARD  
Drg. Nos. ST 2 & 9

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- P7. ALL PILES SHALL BE DESIGNED TO RESIST A NOMINAL MOMENT EQUAL TO THE PILE CAPACITY MULTIPLIED BY AN ECCENTRICITY OF 75mm.
- P8. PILES TO PENETRATE 75mm INTO UNDERSIDE OF GROUND BEAM.
- CONCRETE NOTES:
- B1. ALL CONCRETE FOR SUBSTRUCTURE TO BE GRADE RC40 IN ACCORDANCE WITH CLASS DS-1/AC-1 TO BRE SPECIAL DIBEST 1.
- B2. ALL STRUCTURAL CONCRETE TO BE CAST AGAINST FORMWORK OR ON 50mm BUNDING CONCRETE.
- B3. FORMED SURFACES – THE IRREGULARITIES IN THE FINISH SHALL BE NO GREATER THAN THOSE OBTAINED FROM THE USE OF THE WROUGHT THICKNESS SQUARE EDGE BOARDS ARRANGED IN A UNIFORM PATTERN. THE FINISH IS INTENDED TO BE LEFT AS STRUCK BUT IMPERFECTIONS SUCH AS FINS AND PROTRUDING DISCONTINUITIES SHALL BE MADE GOOD TO THE APPROVAL OF THE ENGINEER.
- B4. UNFORMED SURFACES – AFTER THE CONCRETE HAS HARDENED SUFFICIENTLY THE UNFORMED SURFACE SHALL BE FLOATED BY HAND TO PRODUCE A UNIFORM SURFACE FREE FROM SORED MARKS.

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GROUND FLOOR NOTES:

G1. ALL BLOCKWORK BELOW GROUND FLOOR LEVEL TO BE 10N/m<sup>2</sup> COMPRESSIVE STRENGTH DENSE CONCRETE BLOCKS [MORTAR DESIGNATION (ii) U.N.O.].

G2. GROUND FLOOR LOADINGS:-  
FLOOR SMT (ASSUMED) = 2.5 kN/m<sup>2</sup>  
FLOOR FINISHES = 1.9kN/m<sup>2</sup>  
FLOOR PARTITIONS = 1.0 kN/m<sup>2</sup> OR 1.0 kN/m<sup>2</sup>  
IMPOSED = 1.5 kN/m<sup>2</sup> (GARAGE 2.5kN/m<sup>2</sup>)

## KEY:

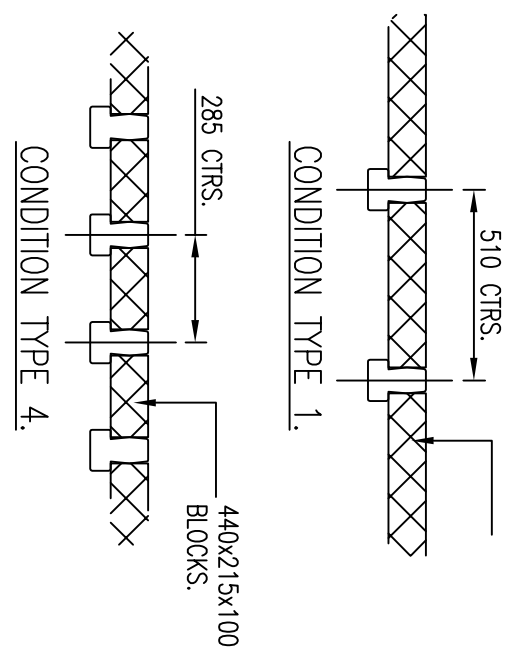
INDICATES 215 THICK  
SLEEPER WALLS

INDICATES BLOCKWORK INTERNAL WALL

INDICATES SPAN DIRECTION OF 155 DP. PCC BEAM  
AND BLOCK FLOOR SYSTEM.

INDICATES SPAN DIRECTION OF 150MM THICK RC600 C40  
DS-3/AC-3 INSTITU CONCRETE SLAB WITH A393 WESH  
TOP & BTM 40mm COVER

## FLOOR BEAM CONDITION TYPES



TOC 675mm  
BELOW FFL

REFER TO MAKE DRAWINGS AND EXTERNAL  
WORKS DRAWINGS FOR LOCATION OF SERVICE  
ENTRY POINTS.

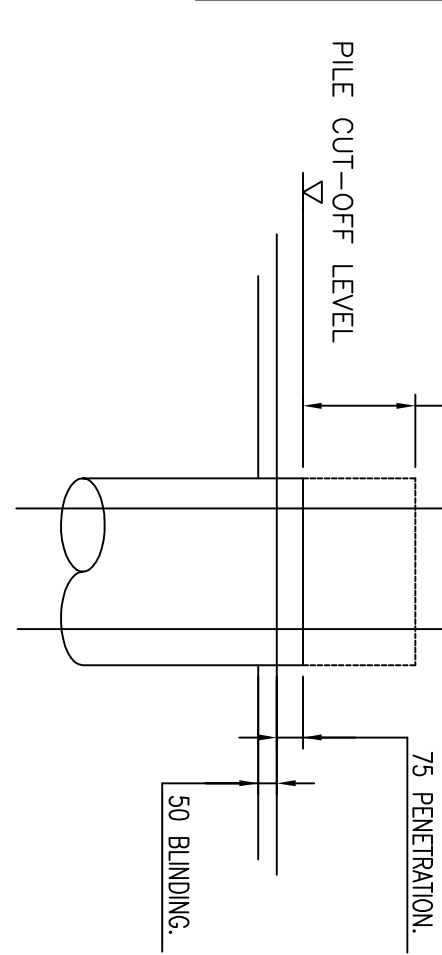
ALL GROUND BEAMS ARE 600 WIDE x 500  
DEEP UNLESS NOTED OTHERWISE

GROUND BEAM REINFORCEMENT  
ESTIMATE 175 kg/m<sup>3</sup>

REFER TO HDL STANDARD  
Drg. Nos. ST 2 & 9

PILE REINFORCEMENT  
PENETRATION DETAIL:

N.T.S.



PILE CUT-OFF LEVEL = 1.1m BELOW FFL

PILE LEGEND

NO. OFF

350 kN WORKING CAPACITY PILE (450 DIA)

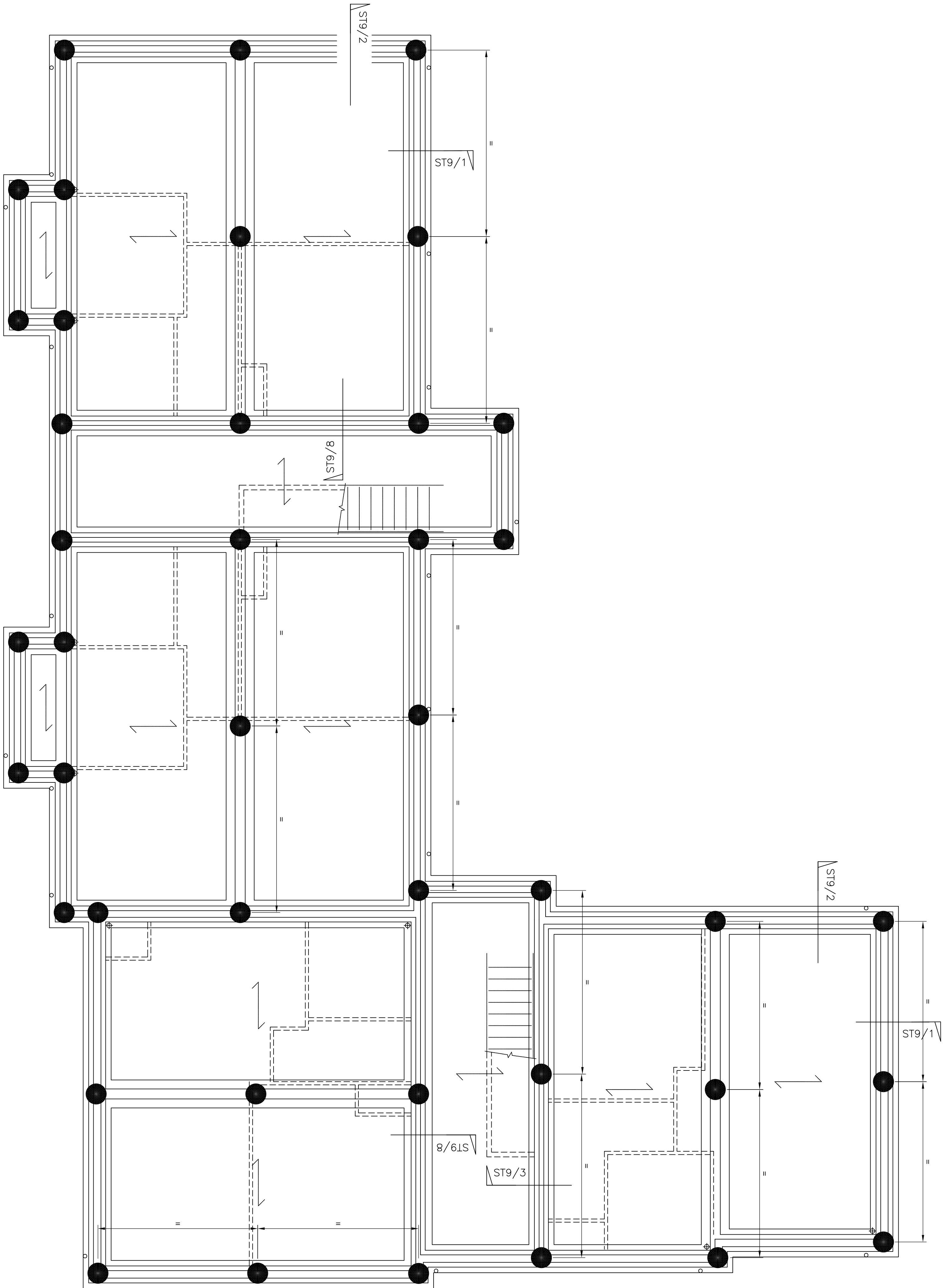
33

TOTAL 33

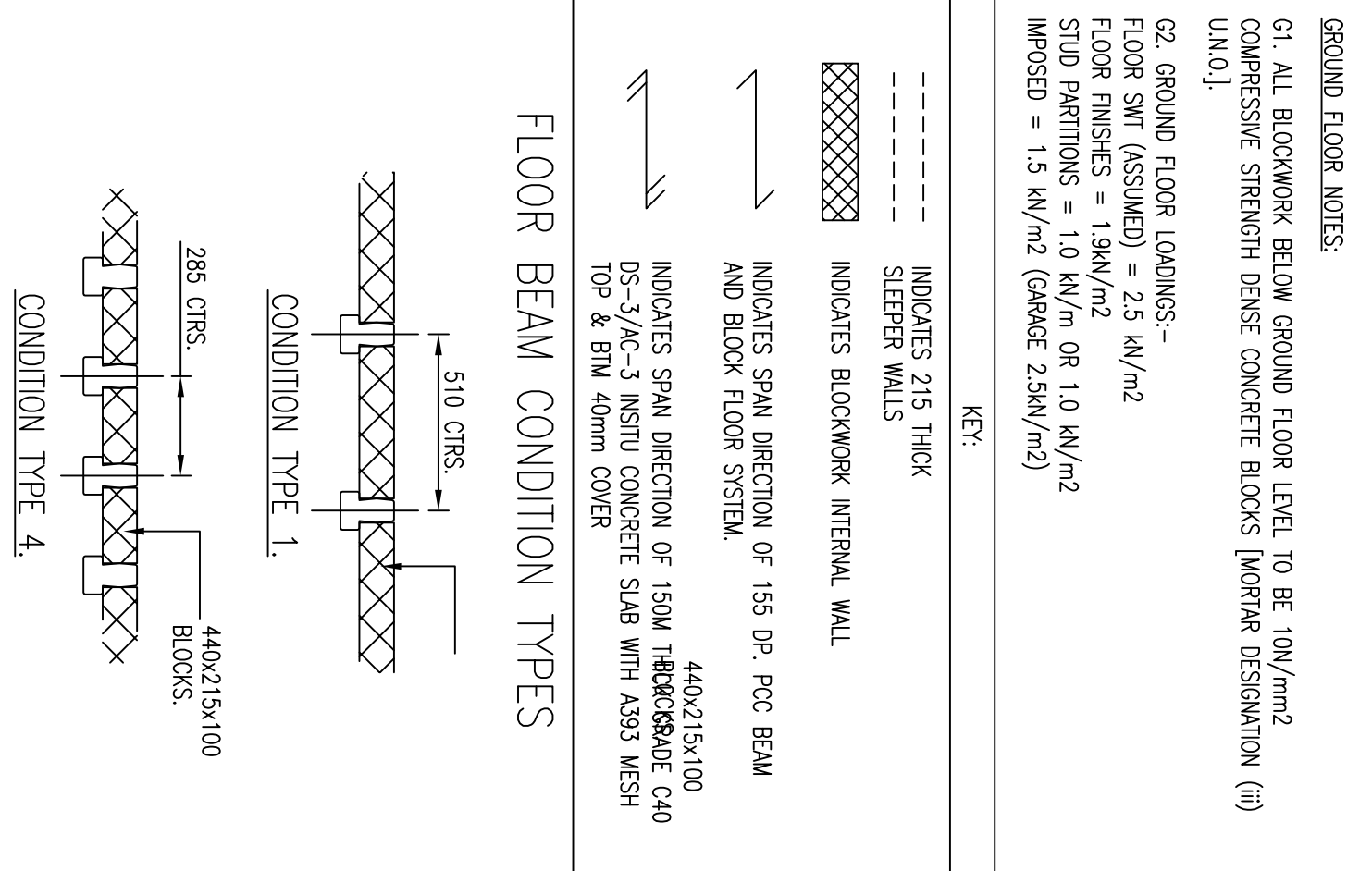
PRELIMINARY

| Version                    | Amended     | Drawn and Date | Checked and Date | Approved and Date |
|----------------------------|-------------|----------------|------------------|-------------------|
| P1                         | PRELIMINARY | HDJ/06.14      | HDJ/06.14        | HDJ/06.14         |
| ORIGINAL DRAWING SIZE - A1 |             |                |                  |                   |
| X-REFS: .                  |             |                |                  |                   |
| CDO REF: .                 |             |                |                  |                   |

|                                                                   |  |                                |                          |
|-------------------------------------------------------------------|--|--------------------------------|--------------------------|
| Client: FOREMAN HOMES LTD                                         |  | Project: RANELAGH ROAD, HAVANT |                          |
| Drawing Title: SUBSTRUCTURE/GROUND FLOOR LAYOUT                   |  | Block: R                       |                          |
| Purpose: PRELIMINARY                                              |  | Drawn: HDJ                     | Scale: 1:50 @ A1         |
| Drawing Number: 14-2260-107                                       |  | Designed: P1                   | Version: P1              |
| Hamill Davies Limited<br>Consulting Civil<br>Structural Engineers |  | Working Office: SWANMORE       | Telephone: 01489 893 596 |



Block P



TOC 675mm  
BELOW FFL

REFER TO MAKE DRAWINGS AND EXTERNAL  
WORKS DRAWINGS FOR LOCATION OF SERVICE  
ENTRY POINTS.

ALL GROUND BEAMS ARE 600 WIDE x 500  
DEEP UNLESS NOTED OTHERWISE

GROUND BEAM REINFORCEMENT  
ESTIMATE 175 kg/m<sup>3</sup>

REFER TO HDL STANDARD  
Drg. Nos. ST 2 & 9

NOTES:

1. THIS DRAWING IS COPYRIGHT AND SHOULD NOT BE REPRODUCED WITHOUT APPROVAL.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE ARCHITECT'S DRAWINGS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF BOTH PARTIES IMMEDIATELY.
3. ANY DIMENSIONS/LEVELS INDICATED 'rel' REFER TO ASSUMED/EXISTING DIMENSIONS WHICH ARE TO BE SITE CHECKED PRIOR TO THE COMMENCEMENT OF ANY WORK.

PILING NOTES

- P1. ALL PILES TO BE DESIGNED, CONSTRUCTED AND TESTED BY THE PILING SUBCONTRACTOR IN ACCORDANCE WITH THE PARTICULAR SPECIFICATION FOR PILING WORKS.
- P2. PILE DIAMETERS SHOWN ARE 450mm DIAMETER AND SHOULD NOT BE ALTERED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER AS PILES HAVE BEEN SET OUT AND PILE CAPS DETAILED ON THE BASIS OF THE PILE DIAMETERS INDICATED.
- P3. CONCRETE FOR THE PILES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS FOR CLASS DS-1/AC-1 CONDITIONS OF EXPOSURE AS CLASSIFIED IN BRE SPECIAL DIGEST 1.
- P4. SUFFICIENT REINFORCEMENT LENGTH ABOVE PILE CUT OFF LEVEL TO BE PROVIDED TO ENSURE SUFFICIENT CONTINUITY OF LOAD PATH INTO THE PILE CAPS FOR ALL LOAD CASES.
- P5. ALL SETTING OUT DIMENSIONS ARE TO CENTRE LINE OF PILES UNLESS NOTED OTHERWISE.
- P6. THE LOAD CAPACITIES SHOWN ARE UNFACTORED WORKING LOADS AND DO NOT INCLUDE FOR DOWN DRAG DUE TO NEGATIVE SKIN FRICTION OR THE SELF WEIGHT OF THE PILE. THE PILING SUBCONTRACTOR SHALL MAKE DUE ALLOWANCE WITHIN HIS DESIGN FOR THE SELF WEIGHT OF THE PILE AND THE EFFECTS OF NEGATIVE SKIN FRICTION.
- P7. ALL PILES SHALL BE DESIGNED TO RESIST A NOMINAL MOMENT EQUAL TO THE PILE CAPACITY MULTIPLIED BY AN ECCENTRICITY OF 75mm.
- P8. PILES TO PENETRATE 75mm INTO UNDERSIDE OF GROUND BEAM.

CONCRETE NOTES:

- B1. ALL CONCRETE FOR SUBSTRUCTURE TO BE GRADE RC40 IN ACCORDANCE WITH CLASS DS-1/AC-1 TO BRE SPECIAL DIGEST 1.
- B2. ALL STRUCTURAL CONCRETE TO BE CAST AGAINST FORMWORK OR ON 50mm BUNDING CONCRETE.
- B3. FORMED SURFACES - THE IRREGULARITIES IN THE FINISH SHALL BE NO GREATER THAN THOSE OBTAINED FROM THE USE OF THE WROUGHT THICKNESS SQUARE EDGE BOARDS ARRANGED IN A UNIFORM PATTERN. THE FINISH IS INTENDED TO BE LEFT AS STRUCK BUT IMPERFECTIONS SUCH AS FINS AND SPALLS OR DISCOLORATION SHALL BE MADE GOOD TO THE APPROVAL OF THE ENGINEER.
- B4. UNFORMED SURFACES - AFTER THE CONCRETE HAS HARDENED SUFFICIENTLY THE UNFORMED SURFACE SHALL BE FLOATED BY HAND TO PRODUCE A UNIFORM SURFACE FREE FROM SORED MARKS.

REINFORCEMENT PENETRATION INTO PILE CAP SHALL BE A MINIMUM OF 600mm PLUS 200mm BOB EXCEPT AT TENSION PILES.

PILES TO BE CAST A MIN. OF 50mm BELOW CUT OFF LEVEL AND BROKEN BACK TO SOIT.

75 PENETRATION  
50 BUNDING.

PILE REINFORCEMENT  
PENETRATION DETAIL:

N.T.S.

PILE CUT-OFF LEVEL = 1.1m BELOW FFL

| PILE LEGEND                            | No. OFF |
|----------------------------------------|---------|
| 350 kN WORKING CAPACITY PILE (450 DIA) | 42      |
| TOTAL                                  | 42      |

PRELIMINARY

| Version                    | Approved    | Drawn and Date | Checked and Date | Revised and Date |
|----------------------------|-------------|----------------|------------------|------------------|
| P1                         | PRELIMINARY | HDJ/06.14      | HDJ/06.14        | HDJ/06.14        |
| ORIGINAL DRAWING SIZE - A1 |             |                |                  |                  |
| X-REFS: .                  |             |                |                  |                  |
| CADD REF: .                |             |                |                  |                  |

|                                                 |  |                                |  |
|-------------------------------------------------|--|--------------------------------|--|
| Client: FOREMAN HOMES LTD                       |  | Project: RANELAGH ROAD, HAVANT |  |
| Drawing Title: SUBSTRUCTURE/GROUND FLOOR LAYOUT |  | Block P                        |  |
| HAMILL DAVIES LIMITED                           |  | Consulting Civil               |  |
| Drawing Author: SWANMORE                        |  | Drawing Number: 14-2260-108    |  |
| Telephone: 01489 893 596                        |  | Version: P1                    |  |