

GENERAL NOTES

No foundation may be cast before the Engineer has inspected the excavations and approved them in writing.

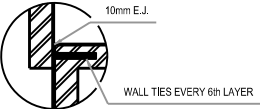
Unsuitable material under foundations shall be removed to a depth approved by the Engineering office and replaced with mass concrete.

All excavations and/or trenches deeper than 1,5m shall be shored for safety purposes.

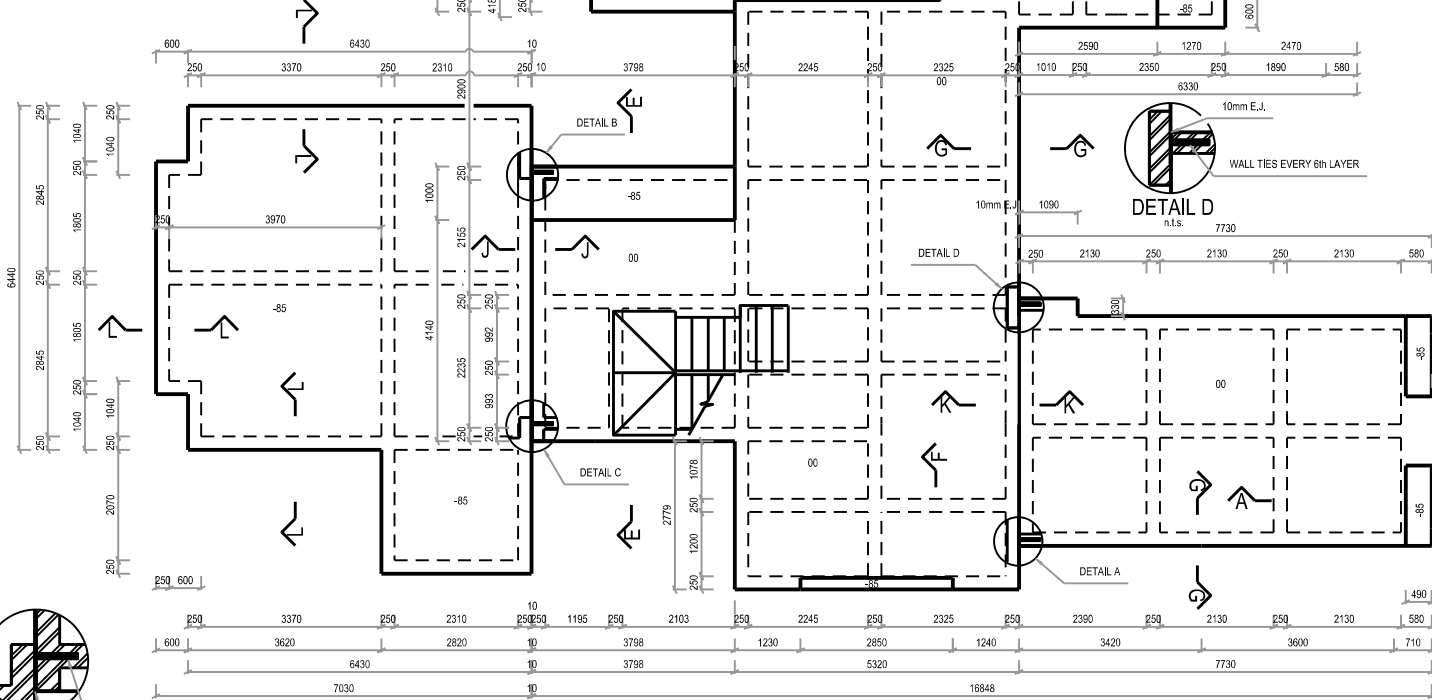
Extreme caution must be taken when excavating around the foundations of any existing walls or columns.

Extreme caution should be exercised when excavating to the same level as the underside of an existing foundation.

Never excavate below the level of any existing foundation.

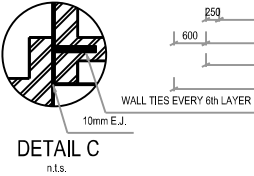


DETAIL B
n.l.s.

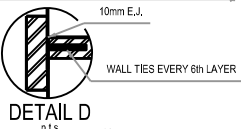


FOUNDATION LAYOUT PLAN
Scale 1:50

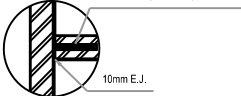
FOR SECTIONS SEE PLAN KCE-2016-14-S02



DETAIL C
n.l.s.



DETAIL D
n.l.s.



DETAIL A
n.l.s.

NOTES AND SPECIFICATIONS

CONCRETE

All visible sharp edges to be filled 20 x 20 mm unless detailed or specified otherwise on the drawings.

All concrete work shall be constructed in accordance with the requirements of the SABS 1200 G series, SABS 0100, COLTO and the National Building Regulations unless otherwise noted on the drawings.

Concrete shall be "strength Grade concrete (MPa)"/"maximum stone size (mm)" as specified below unless otherwise noted:

Foundations	Grade 25/19
Slabs	Grade 25/19
Reinforced Masonry Fill	Grade 25/10

No concrete may be placed if ambient temperatures are at or below 4°C.

The Contractor shall ensure that all reinforcement is properly held in position and shall also maintain the correct concrete cover during concreting, utilizing approved spacers (not stones, offcut reinforcement, etc.) at all times. Concrete cover for reinforcing steel in concrete:

25mm	Top of all internal slabs
25mm	Bottom of slab
25mm	Column stirrups
25mm	Beam stirrups
40mm	Column main bars
50mm	Footings
75mm min.	Bottom of slabs on fill

All concrete shall be mechanically compacted through the use of vibrators.

Concrete shall be cast continuously. If stoppages of more than 40 minutes are unavoidable, construction joints shall be formed in the positions and according to the details provided by the Engineer.

All structural concrete shall be continuously cured for at least 7 days using methods approved by the Engineer.

Concrete cube tests shall be taken by an independent Engineer may also undertake informal Schmidt-hammer tests on concrete from time to time.

Concrete slump for unreinforced concrete shall be not greater than 100mm.

laboratory approved by the Engineer, although the Mixing, transport and placement of concrete shall be

Stripping of formwork:

Beam sides and unloaded columns: 1 day
Beam soffits and slabs : 7 days (props remaining in place for a further 14 days).

AMENDMENTS			
NR.	DATE	DESCRIPTION	AMENDMENT DONE BY:
01	Oct 18	Change strip to raft foundation at garage	DS

PROJECT STATUS			
<input type="radio"/> CONCEPT DRAWING	<input type="radio"/> TENDER DRAWING	<input checked="" type="radio"/> APPROVED FOR CONSTRUCTION DRAWING	<input type="radio"/> AS BUILT DRAWING

PROJECT ENGINEER:	201270171	21-10-2016
DJ STEENKAMP		
INTERNAL NAME SURNAME	KCSA PL. No.	DATE

CONSULTANT DETAIL:	
	
OK 2011/061594/23 Tel: +27 82 786 4724 Fax: +27 13 752 4311 Email: design@kumazi.co.za PO Box 26581, Netzspruit, 1200 No. 12 Suikerriet Street, Central Park, Unit 25, Netzspruit, 1200	


CLIENT DETAIL:	
Name:	Mr & Mrs Lewies

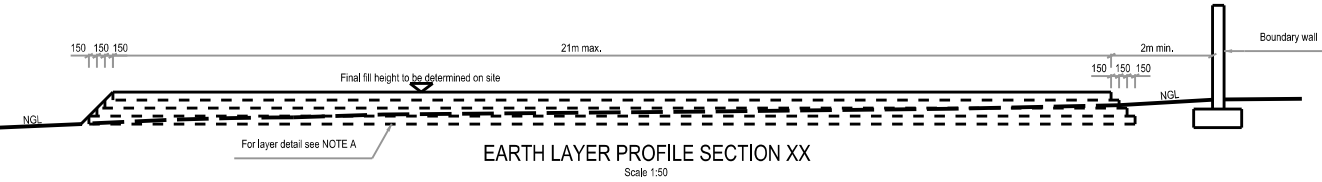
Cell: 083 647 4901	email: mlewies@gmail.com
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DESCRIPTION OF PROJECT:	
PROPOSED NEW HOUSE ON ERF 1827 LOUWLRDIA X34 CANDLEWOODS COUNTRY ESTATE	

DESCRIPTION OF DRAWING:	
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FOUNDATION LAYOUT PLAN

CONTRACT No. :		PROJECT No. :	
		KCE-2016-14	
DATE :	SCALE :	ORIGINAL PAPER SIZE :	
21 - 10 - 2016	AS SHOWN	A1	
DRAWING NO. :		SHEET NO. :	
KCE-2016-14-S01		1	
		 REVISION	



EARTH LAYER PROFILE SECTION XX
Scale 1:50

No foundation may be cast before the Engineer has inspected the excavations and approved them in writing.

Unsuitable material under foundations shall be removed to a depth approved by the Engineering office and replaced with mass concrete.

Extreme caution must be taken when excavating around the foundations of any existing walls or columns.

Extreme caution should be exercised when excavating to the same level as the underside of an existing foundation.

Never excavate below the level of any existing foundation.



Scale 1:50

CONCRETE

All visible sharp edges to be filleted 20 x 20 mm unless detailed or specified otherwise on the drawings.

All concrete work shall be constructed in accordance with the requirements of the SABS 1200 G series, SABS 0100, COLTO and the National Building Regulations unless otherwise noted on the drawings.

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Slabs	Grade 25/19
Reinforced Masonry Fill	Grade 25/10

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25mm	Beam stirrups
40mm	Column main bars
50mm	Footings
75mm min.	Bottom of slabs on fill

All concrete shall be mechanically compacted through the use of vibrators.

Concrete shall be cast continuously. If stoppages of more than 40 minutes are unavoidable, construction joints shall be formed in the positions and according to the details provided by the Engineer.

All structural concrete shall be continuously cured for at least 7 days using methods approved by the Engineer.

Concrete cube tests shall be taken by an independent Engineer may also undertake informal Schmidt-hamm tests on concrete from time to time

Concrete slump for unreinforced concrete shall be not greater than 100mm.

Stripping of formwork:
Beam sides and unloaded columns: 1 day
Beam soffits and slabs : 7 days (props remaining in place for a further 14 days).

AMENDMENTS			
NRL	DATE	DESCRIPTION	AMENDMENT DONE BY
W01	Dec 17	SUPERCEED BEAMS 7 & 12 - CHANGE TO BEAM 9, 10 & 11	GS

<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
CONCEPT DRAWING	TENDER DRAWING	APPROVED FOR CONSTRUCTION	AS BUILT DRAWING

PROJECT ENGINEER:		
DJ STEENKAMP	201270171	21-10-2016
INITIALS AND SURNAME	ECSA Pr. No.	DATE

CONCRETE DETAIL:



CK 2011/061584/23
Tel: +27 82 786 4724
Fax: +27 13 752 4311
Email: design@kumazi.co.za
PO Box 26591, Nelspruit, 1200
No. 12 Suikeriet Street, Central Park, Unit 29, Nelspruit, 1200

CLIENT DETAIL:


Name: Mr & Mrs Lewies

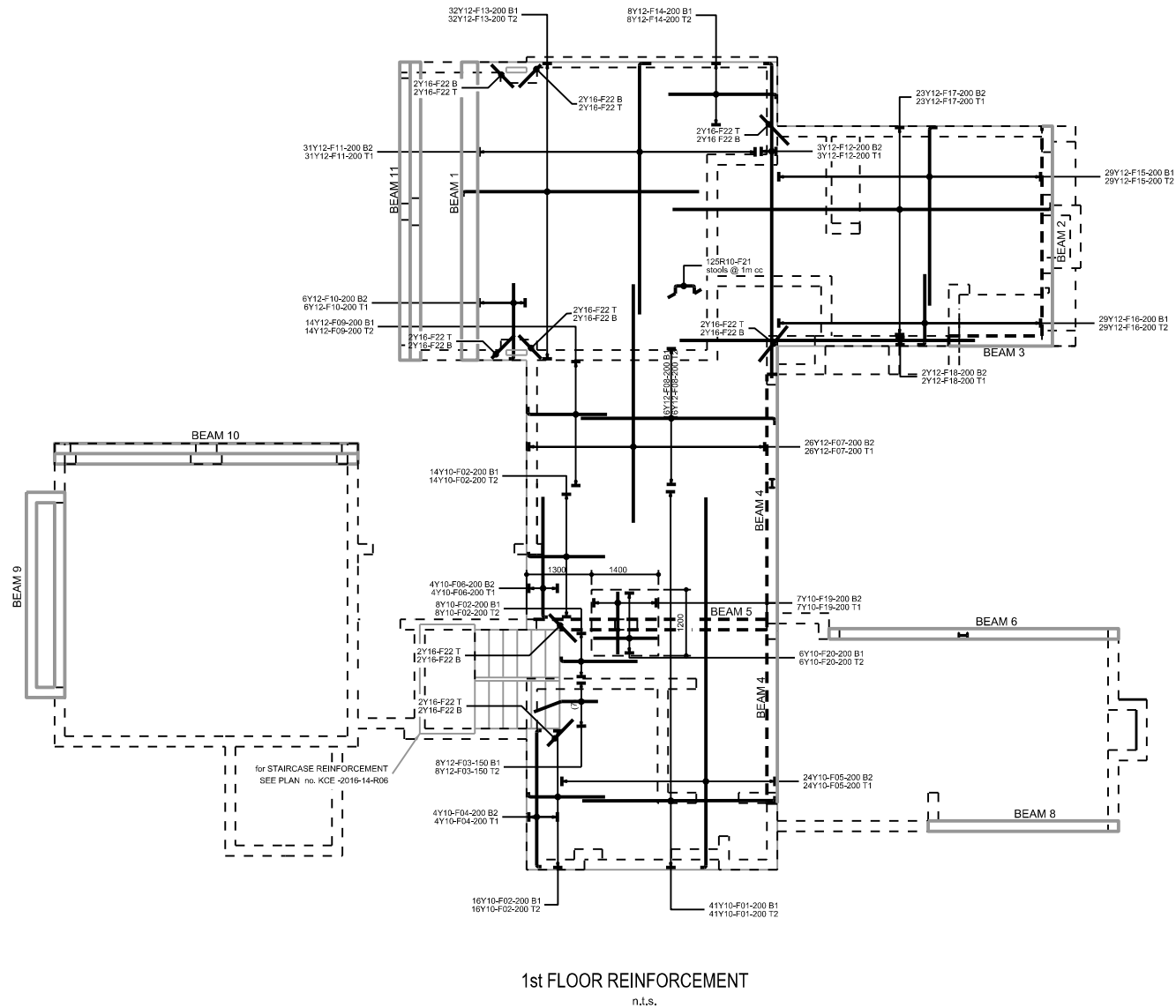
Cel: 083 647 4901 email: mlewies@gmail.com

PROPOSED NEW HOUSE
ON ERF 1827
LOUWLARDIA X34
CANDLEWOODS COUNTRY ESTATE

DESCRIPTION OF DRAWING:	
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1st FLOOR SLAB & BEAM
LAYOUT

CONTRACT NO.:		PROJECT NO.:	
		KCE-2016-14	
DATE:	SCALE:	ORIGINAL PAPER SIZE:	
21 - 10 - 2016	AS SHOWN	A1	
DRAWING NO.		SHEET NO.	
KCE-2016-14-S03		1	
		 REVISION	



NOTES AND SPECIFICATIONS

LEGEND:

Y: ROUND DEFORMED HIGHTENSILE STEEL BARS
R: ROUND MILD STEEL BARS
FS: STANDARD MESH REINFORCEMENT
EW: EACH WAY
ABR: ALTERNATE BARS REVERSED
ALT: ALTERNATE
STG: STAGGERED
T1: LOWEST OF TOP LAYERS
T2: SECOND LOWEST OF TOP LAYERS
B2: SECOND LOWEST OF BOTTOM LAYERS
B1: LOWEST OF BOTTOM LAYERS
NF: NEAR FACE
FF: FAR FACE
HOR: HORIZONTAL
VERT: VERTICAL
NTS: NOT TO SCALE



AMENDMENTS

NR.	DATE	DESCRIPTION	AMENDMENT DONE BY:

PROJECT STATUS

<input type="radio"/> CONCEPT DRAWING	<input type="radio"/> TENDER DRAWING	<input checked="" type="radio"/> APPROVED FOR CONSTRUCTION DRAWING	<input type="radio"/> AS BUILT DRAWING
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PROJECT ENGINEER: DJ STEENKAMP	2012070171	21-10-2016
INITIALS AND SIGNATURE	KCEA PL. NO.	DATE

CONSULTANT DETAIL:
 CK 2011061594/23 Tel: +27 82 786 4724 Fax: +27 13 752 4311 Email: design@kumazi.co.za PO Box 26561, Nelspruit, 1200 No. 12 Suikerriet Street, Central Park, Unit 25, Nelspruit, 1200


CLIENT DETAIL:
Name: Mr & Mrs Lewies

Cell: 083 647 4901	email: mlewies@gmail.com
--------------------	--------------------------

DESCRIPTION OF PROJECT:
PROPOSED NEW HOUSE ON ERF 1827 LOUWLRDIA X34 CANDLEWOODS COUNTRY ESTATE

DESCRIPTION OF DRAWING:

1ST FLOOR SLAB
REINFORCEMENT

CONTRACT No. :		PROJECT No. :	
		KCE-2016-14	
DATE :	SCALE :	ORIGINAL PAPER SIZE :	
21 - 10 - 2016	AS SHOWN	A1	
DRAWING NO.	SHEET NO.		
KCE-2016-14-R04	1	REVISION	

GENERAL NOTES

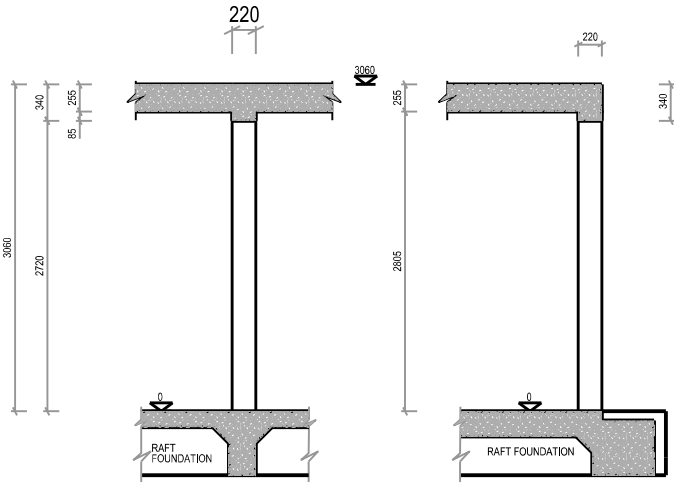
No foundation may be cast before the Engineer has inspected the excavations and approved them in writing.
Unsuitable material under foundations shall be removed to a depth approved by the Engineering office and replaced with mass concrete.

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Extreme caution must be taken when excavating around the foundations of any existing walls or columns.

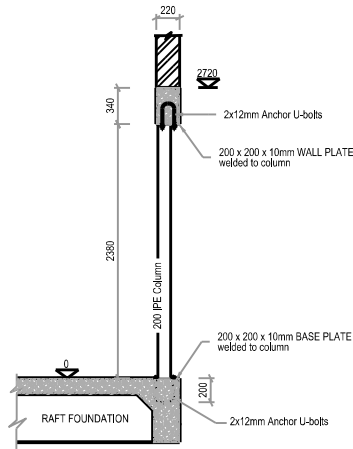
Extreme caution should be exercised when excavating to the same level as the underside of an existing foundation.

Never excavate below the level of any existing foundation.

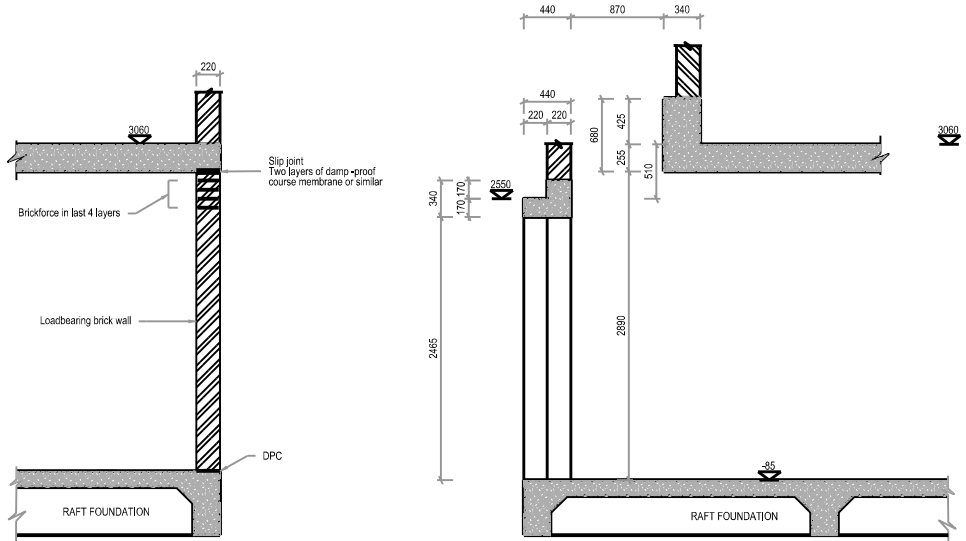


SECTION F-F
Scale 1:25

SECTION K-K
Scale 1:25

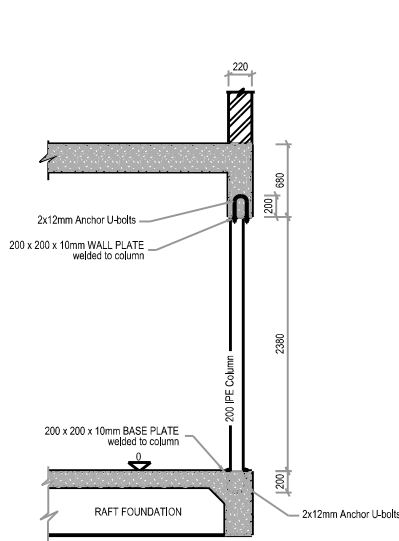


SECTION H-H
Scale 1:25

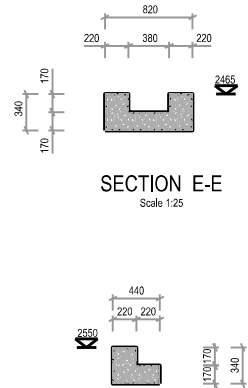


TYPICAL WALL / FLOOR SECTION
Scale 1:25

SECTION G-G
Scale 1:25

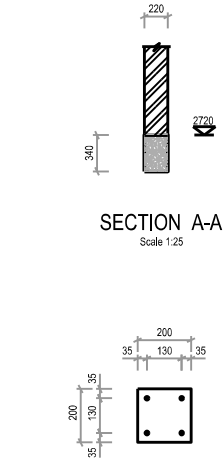


SECTION J-J
Scale 1:25



SECTION E-E
Scale 1:25

SECTION D-D
Scale 1:25



SECTION A-A
Scale 1:25

COLUMN BASE / WALL PLATE PLAN
Scale 1:10

NOTES AND SPECIFICATIONS

CONCRETE
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All concrete work shall be constructed in accordance with the requirements of the SABS 1200 G series, SABS 0100, COLTO and the National Building Regulations unless otherwise noted on the drawings.
Concrete shall be "strength Grade concrete (MPa)"/ "maximum stone size (mm)" as specified below unless otherwise noted:
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Slabs Grade 25/19
Reinforced Masonry Fill Grade 25/13

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Concrete cover for reinforcing steel in concrete:
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25mm Beam stirrups
40mm Column main bars
50mm Footings
75mm min. Bottom of slabs on fill

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Concrete shall be cast continuously. If stoppages of more than 40 minutes are unavoidable, construction joints shall be formed in the positions and according to the details provided by the Engineer.

All structural concrete shall be continuously cured for at least 7 days using methods approved by the Engineer.
Engineer may also undertake informal Schmidt-hammer

Concrete cube tests shall be taken by an independent tests on concrete from time to time.
Concrete slump for unreinforced concrete shall be not greater than 100mm.

Beam sides and unloaded columns: 1 day
Mixing, transport and placement of concrete shall be Shipped for work:
Beam soffits and slabs: 7 days (props remaining in place for a further 14 days).
surface of the concrete is as shown on the drawings.
The quality of formwork shall be such that the finished

FOUNDATION LEVELS:
Foundation levels will be finalised by the Engineer on Site and shall be at least 500mm below natural ground level for strip foundations and at least 900mm for column footings, unless instructed otherwise by the Engineer or where suitable hard founding material is found at shallower depth, sufficient however to fully cover the proposed foundation(s).

AMENDMENTS			
NR.	DATE	DESCRIPTION	AMENDMENT DONE BY
W01	Dec-17	SECTION D & G	

PROJECT STATUS			
<input type="radio"/> CONCEPT DRAWING	<input type="radio"/> TENDER DRAWING	<input checked="" type="radio"/> APPROVED FOR CONSTRUCTION DRAWING	<input type="radio"/> AS BUILT DRAWING
PROJECT ENGINEER:		201270171	21-10-2016
INITIALS AND SURNAME		BCSA P. No.	DATE

CONSULTANT DETAIL:	
	
CK 2011/061584/23 Tel: +27 82 786 4724 Fax: +27 13 732 4311 Email: design@kumazi.co.za PO Box 26591, Nelspruit, 1200 No. 12 Suikerriet Street, Central Park, Unit 20, Nelspruit, 1200	

CLIENT DETAIL:	
Name:	Mr & Mrs Lewies
Cel: 083 647 4901	email: mlewies@gmail.com

DESCRIPTION OF PROJECT:	
PROPOSED NEW HOUSE ON ERF 1827 LOUWALDIA X34 CANDLEWOODS COUNTRY ESTATE	

DESCRIPTION OF DRAWING:	
1st FLOOR SLAB & BEAM SECTIONS	

CONTRACT No.:		KCE-2016-14	
DATE:	SCALE:	ORIGINAL PAPER SIZE:	
21 - 10 - 2016	AS SHOWN	A1	
DRAWING NO.	SHEET NO.		
KCE-2016-14-S04	1		
		REVISION	

GENERAL NOTES

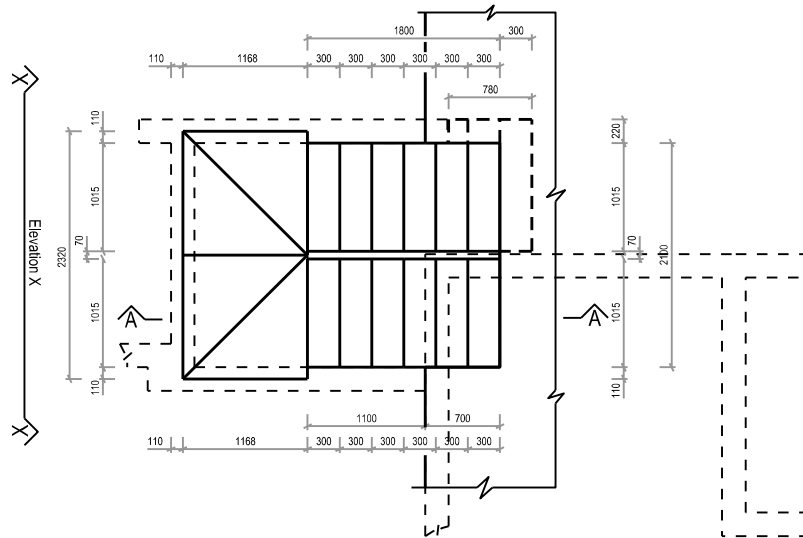
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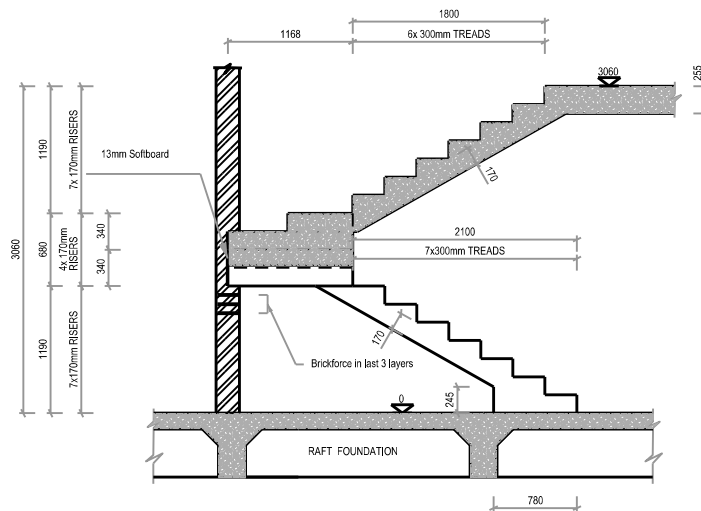
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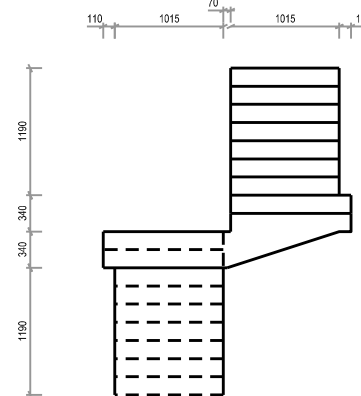
Never excavate below the level of any existing foundation.



STAIRCASE PLAN
Scale 1:25



SECTION A-A



ELEVATION X
Scale 1:25

NOTES AND SPECIFICATIONS

CONCRETE
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Beam sides and unloaded columns: 1 day
Mixing, transport and placement of concrete shall be
Stripping of formwork:
Beam soffits and slabs: 7 days (props remaining in place for a further 14 days).
surface of the concrete is as shown on the drawings.
The quality of formwork shall be such that the finished

FOUNDATION LEVELS:
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AMENDMENTS		
NR.	DATE	DESCRIPTION

PROJECT STATUS			
<input type="radio"/> CONCEPT DRAWING	<input type="radio"/> TENDER DRAWING	<input checked="" type="radio"/> APPROVED FOR CONSTRUCTION DRAWING	<input type="radio"/> AS BUILT DRAWING

PROJECT ENGINEER:	201270171	21-10-2016
INITIALS AND SURNAME	BCSA P. No.	DATE

CONSULTANT DETAIL:




Kumazi
Consulting Engineers

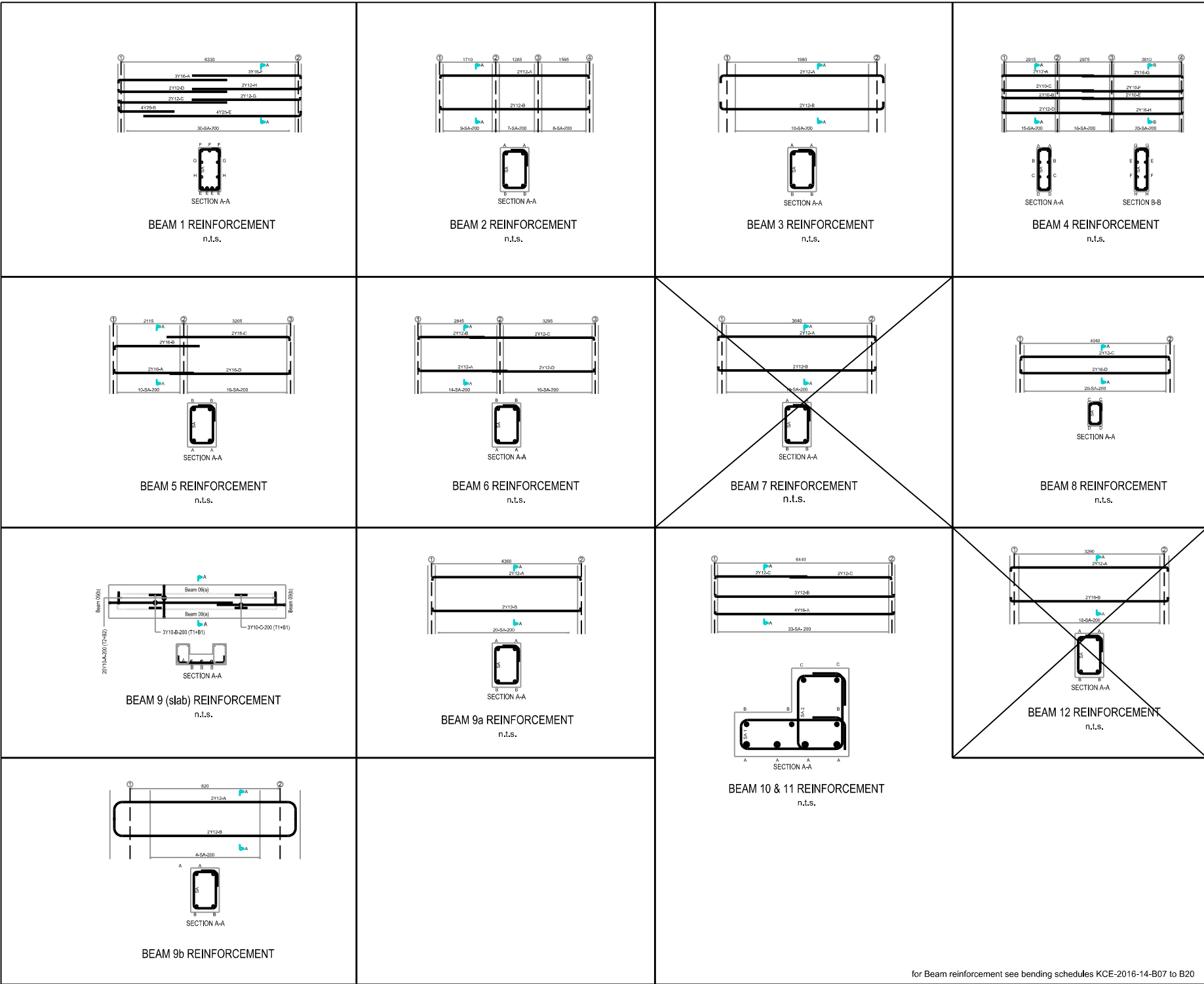
CK 2011/061584/23
Tel: +27 82 786 4724
Fax: +27 13 732 4311
Email: design@kumazi.co.za
No. 12 Suikerriet Street, Central Park, Unit 20, Nelspruit, 1200


CLIENT DETAIL:	Mr & Mrs Lewies
Name:	
Cel: 083 647 4901	email: mlewies@gmail.com

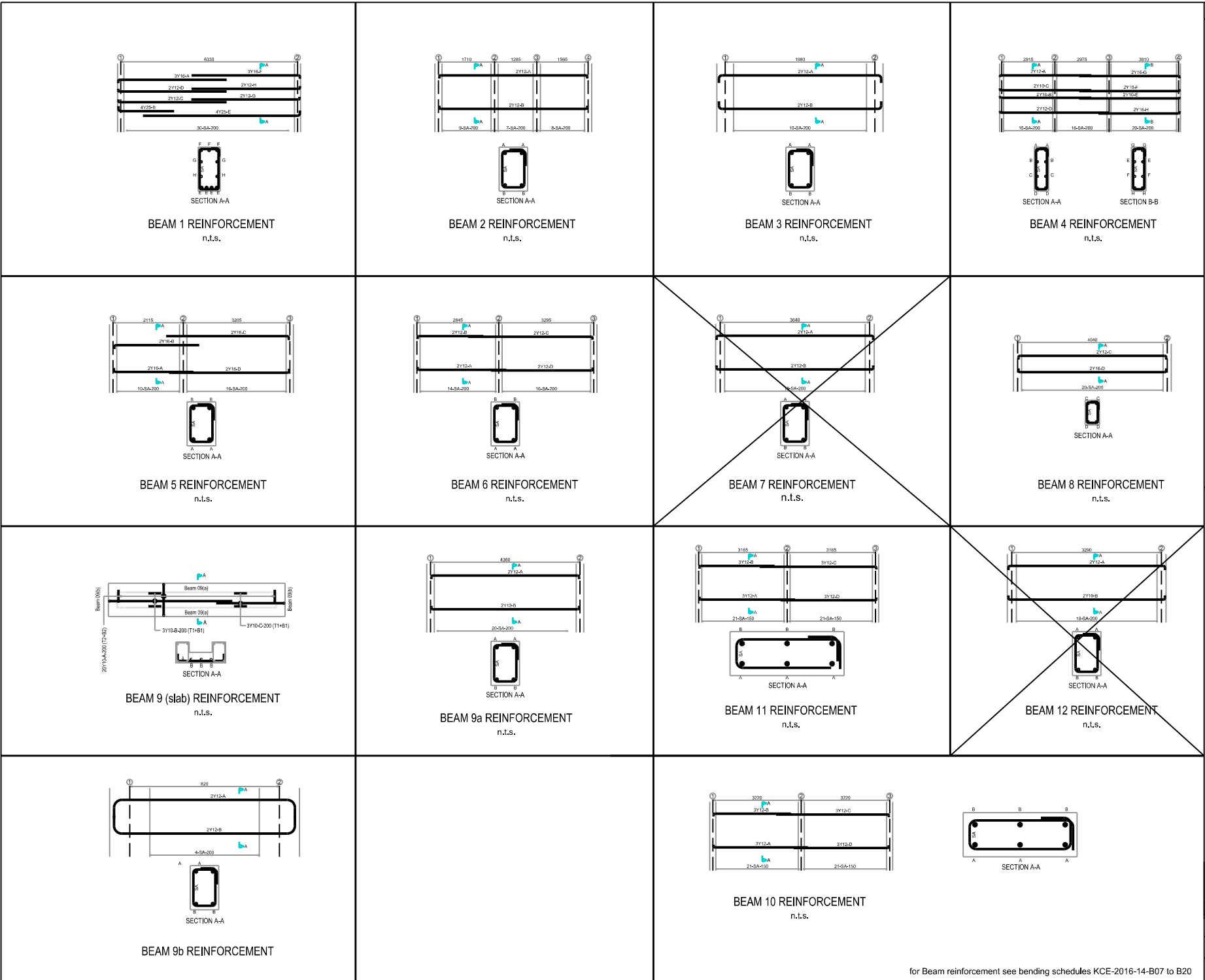
DESCRIPTION OF PROJECT:	PROPOSED NEW HOUSE ON ERF 1827 LOUWLRDIA X34 CANDLEWOODS COUNTRY ESTATE
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DESCRIPTION OF DRAWING:	
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CONTRACT No. :		PROJECT No. : KCE-2016-14	
DATE : 21 - 10 - 2016	SCALE : AS SHOWN	ORIGINAL PAPER SIZE: A1	
DRAWING NO. KCE-2016-14-S05		SHEET NO. 1	 REVISION



NOTES AND SPECIFICATIONS			
LEGEND:			
Y: ROUND DEFORMED HIGHTENSILE STEEL BARS			
R: ROUND MILD STEEL BARS			
FS: STANDARD MESH REINFORCEMENT			
EW: EACH WAY			
ABR: ALTERNATE BARS REVERSED			
ALT: ALTERNATE			
STG: STAGGERED			
T1: LOWEST OF TOP LAYERS			
T2: SECOND LOWEST OF TOP LAYERS			
B2: SECOND LOWEST OF BOTTOM LAYERS			
B1: LOWEST OF BOTTOM LAYERS			
NF: NEAR FACE			
FF: FAR FACE			
HOR: HORIZONTAL			
VERT: VERTICAL			
NTS: NOT TO SCALE			
			



NOTES AND SPECIFICATIONS

LEGEND:

Y: ROUND DEFORMED HIGHTENSILE STEEL BARS
R: ROUND MILD STEEL BARS
FS: STANDARD MESH REINFORCEMENT
EW: EACH WAY
ABR: ALTERNATE BARS REVERSED
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B2: SECOND LOWEST OF BOTTOM LAYERS
B1: LOWEST OF BOTTOM LAYERS
NF: NEAR FACE
FF: FAR FACE
HOR: HORIZONTAL
VERT: VERTICAL
NTS: NOT TO SCALE

T2

T1

B2

B1

AMENDMENTS			
NR.	DATE	DESCRIPTION	AMENDMENT DONE BY
001	2017	SUPERCED BEAM 7&12	

PROJECT STATUS

☐ CONCEPT DRAWING

☐ TENDER DRAWING

☒ APPROVED FOR CONSTRUCTION DRAWING

☐ AS BUILT DRAWING

PROJECT ENGINEER:
DJ STEENKAMP

20170711

21-10-2016

INITIALS AND SIGNATURE

ECBA PL. NO.

DATE

CONSULTANT DETAIL:

CK 2011/061594/23
Tel: +27 82 786 4724
Fax: +27 13 752 4311
Email: design@kumazi.co.za
PO Box 26561, Nelspruit, 1200
No. 12 Suikerriet Street, Central Park, Unit 25, Nelspruit, 1200

CLIENT DETAIL:

Name:

Mr & Mrs Lewies

Cell:

083 647 4901

email:

mlewie@gmail.com

DESCRIPTION OF PROJECT:

PROPOSED NEW HOUSE
ON ERF 1827
LOUWLARDIA X34
CANDLEWOODS COUNTRY ESTATE

DESCRIPTION OF DRAWING:

1ST FLOOR SLAB BEAM
REINFORCEMENT

CONTRACT No.:

PROJECT No:

DATE:

SCALE:

ORIGINAL PAPER SIZE:

DRAWING NO.:

SHEET NO.:

REVISION

for Beam reinforcement see bending schedules KCE-2016-14-B07 to B20