

- THE TYPE AND ORIGIN OF THE STONE, SAND AND CEMENT SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CONSTRUCTION. STONE FOR FOUNDATION SHALL BE 10MM TO 20MM STONE FOR ALL OTHER CONCRETE WITH SHALL BE 10MM**
- ALL OTHER PRESCRIBED CONCRETE MIXES TO BE DESIGNED BY A RECOGNISED INSTITUTE AND APPROVED BY THE ENGINEER**
- C CONCRETE CURING FOR TOP REINFORCING**  
BASIS : -75MM  
COLUMNS TO LINKS) : -25MM
- D CONSTRUCTION JOINTS: THE POSITION AND FORM METHOD OF ALL CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL**
- THE DEGREE OF ACCURACY SHALL BE GRADE B FOR FOUNDATIONS AND GRADE C FOR ALL OTHER LOTTS OR CONSTRUCTION**
- ALL REINFORCEMENT AND FOUNDATIONS TO LOAD BEARING WALLS, COLUMN BASES AND RETAINING WALLS, TO BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE CONCRETE IS CAST. THE ENGINEER SHALL BE GIVEN 24-HOUR NOTICE BEFORE THE INSPECTION. THE INSPECTION SHALL ONLY BE CARRIED OUT IF IT IS PROVED THAT THE SPACER BLOCK POSITION AND THE REINFORCEMENT CHECKED BY THE CONTRACTOR BEFOREHAND.**
- ALL FOUNDATION DEPTHS AND EXCAVATIONS SHALL BE CONFIRMED BY THE CONTRACTOR TO BE TO BE MINIMUM 100MM DEPTHS BELOW THE SURFACE BEDS.**
- ALL FOUNDATION BROWKROWK TO BE REINFORCED WITH BRICK FORCE AND CONCRETE REINFORCING TO BE FILLED WITH MASS CONCRETE TO SURFACE BED LEVELS.**
- 3. SURFACE BEDS:**
- A CURING TO BE CONTINUOUSLY FOR A MINIMUM OF 5 DAYS**
- B CONSTRUCTION JOINTS TO BE CUT WITHIN 48 HOURS OF THE POSITION AND FORM METHOD OF ALL CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL**
- C ALL CONCRETE SURFACE BEDS AND FLOORS TO BE Laid ON A LAYER OF OPC, ON 50mm WELF COMPACT CLEAN SAND BLINDING, ON SUITABLE AND APPROVED FILL MATERIAL, COMPACTED TO THE FOLLOWING**
- SELECTED AND APPROVED FILL TO A MIN. 8% MAX. MOISTURE
  - THE MAXIMUM ALLOWABLE OPC READING NOT TO EXCEED 15%W/BM
  - CEMENT TO MIN. 10% MAX. MOISTURE
  - THE MAXIMUM ALLOWABLE OPC READING NOT TO EXCEED 12%W/BM
  - ALL FILLING OF MATERIAL TO BE CLEANED OF IMPURITIES OR ORGANIC MATERIALS
- D THE FILLING MATERIAL TO BE PLACED AND COMPACTED LAYERS NOT EXCEEDING 200MM DEPT.**
- 4. BRICKWORK:**
- NO DIMENSIONS TO BE SCALED FROM THIS DRAWING**
- A ALL LOAD BEARING WALLS AS INDICATED TO BE IN PLACED BEFORE ALL REINFORCING TO BE CAST. THE STRUCTURE IS CAST NO HORIZONTAL CHANGES IN LOAD BEARING WALLS**
- B ALL BRICKS IN LOAD BEARING WALLS TO HAVE AN MINIMUM STRENGTH OF 7 MPA. ALL MORTAR USED IN LOAD BEARING WALLS TO BE CLASS TYPE AS SPECIFIED IN SABS 014**
- D VERTICAL EXPANSION JOINTS TO BE CONSTRUCTED BETWEEN THE BRICK WALLS AND THE RC COLUMN OR CONCRETE WALLS. ALL WALLS TO BE REINFORCED WITH 200MM DIA. GALVANIZED HOOP IRON STRIPS AND EXTENDED EVERY FOURTH COURSE. THESE HOOP IRON STRIPS TO BE 100MM WIDE AND 10MM THICK. THE STRUCTURE TO SHOT DRIVEN WALLS AND EXTENDED FOR A MINIMUM 450mm**
- E ALL CAVITY WALLS TO BE REINFORCED WITH BUTTERFLY REINFORCEMENT AT A RATE OF PER M<sup>2</sup>**
- D BRICK WALLS IN GENERAL TO BE REINFORCED WITH BRICK FORCE IN EVERY FOURTH COURSE. BRICK FORCE ALSO TO BE PLACED IN THE FIRST TWO COURSES ABOVE THE FOUNDATION AND OVER DOORS AND IN THE FIRST TWO TOP COURSES BELOW ALL WINDOW OPENINGS**
- B AND BRICKS IN NON-LOAD BEARING WALLS TO HAVE MINIMUM STRENGTH OF 7 MPA. ALL MORTAR IN LOAD BEARING WALLS OF CLASS TYPE AS SPECIFIED**
- 5. RC SLABS:**
- A ALL REINFORCING CONCRETE TO BE 25MM AND TO BE MECHANICALLY VIBRATED.**
- C CONCRETE CURING FOR TOP REINFORCING**  
COLLARS TO LINKS) : -25mm  
BEAMS (TOP AND BOTTOM) : -30mm (TOP)  
-25mm (BOTTOM)  
SLAB : -25mm (TOP)  
-20mm (BOTTOM)  
-20mm  
ENSURE COVER BLOCKS OF PLASTIC TYPE OR SIMILAR APPROVAL
- C ALL CONCRETE TO BE MOST CURED FOR 4 DAYS MIN. AFTER POURING TEST CURES TO BE MADE AND TESTED IN ACCORDANCE TO SABS METHODS 801, 802 AND 803**
- D REINFORCING CONCRETE ELEMENTS TO BE PROPEDED TO SPECIFICATION OF SABS 014 AND TO BE SUBMITTED TO THE ENGINEER FOR LONG AS THERE ARE BUILDING WORK TAKING PLACE OUT OF THE CONSTRUCTION PERIOD**
- E CHARACTERISTIC 28 DAY COMPRESSIVE STRENGTH STRUCTURAL REINFORCED CONCRETE ELEMENTS**  
RC COLUMNS : -25MPA  
RC BEAM : -25 MPa  
RC SLAB : -25 MPa  
RC STAIRS : -25 MPa
- F THE MINIMUM LAP LENGTH TO ALL REINFORCING (AS X DIAMETER OF REBAR)**
- G CURING: CONTINUOUSLY FOR A MINIMUM OF 5 DAYS**
- H FORM WORK CLASSIFICATION : - SMOOTH**
- J ALL REINFORCEMENT TO BE INSPECTED AND APPROVED BY AN ENGINEER BEFORE CONCRETE IS CAST. THE ENGINEER SHALL BE GIVEN 24-HOUR NOTICE BEFORE THE INSPECTION. THE INSPECTION SHALL ONLY BE CARRIED OUT IF IT IS PROVED THAT THE SPACER BLOCK POSITION AND THE REINFORCEMENT CHECKED BY THE CONTRACTOR BEFOREHAND.**
- K ALL LOAD BEARING WALLS AS INDICATED TO BE IN PLACED BEFORE ANY RELATES CONCRETE STRUCTURE IS CAST. NO HORIZONTAL CHANGES IN LOAD BEARING WALLS**
- L NON-LOAD BEARING WALLS NOT TO BE BUILT TO SUFFIT OF**

UNITRADE 1211 CC trading as  
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TEL 028 313 2600  
7 MAGNOLIA STREET  
NORTH CLIFF  
HERMANUS  
7200

SIGNATURE: STRUCTURAL ENGINEER

.....Pr.Eng.

Client  
OVERSTRAND MUNICIPALITY

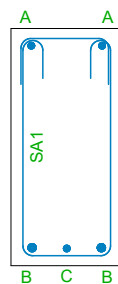
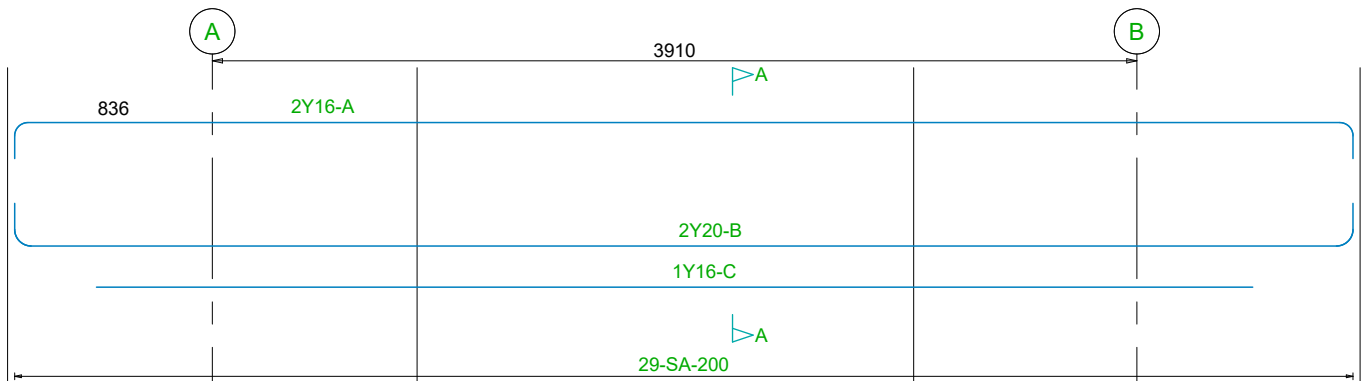
Project  
ALTERATIONS AND ADITIONS TO  
OVERSTRAND MUNICIPALITY  
ON ERF 730  
1 ROYAL STREET  
HERMANUS

Drawing description  
RC FIRST FLOOR SLAB  
BOTTOM AND TOP REINFORCING  
GENERAL LAYOUT

Drawn by	I.B	Date
Checked by	I.W	22 SEPTEMBER 2020
Scale	as shown	

Drawing No.	H4739 / 02	REV.NO	0
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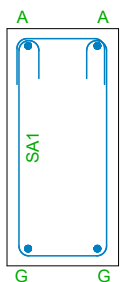
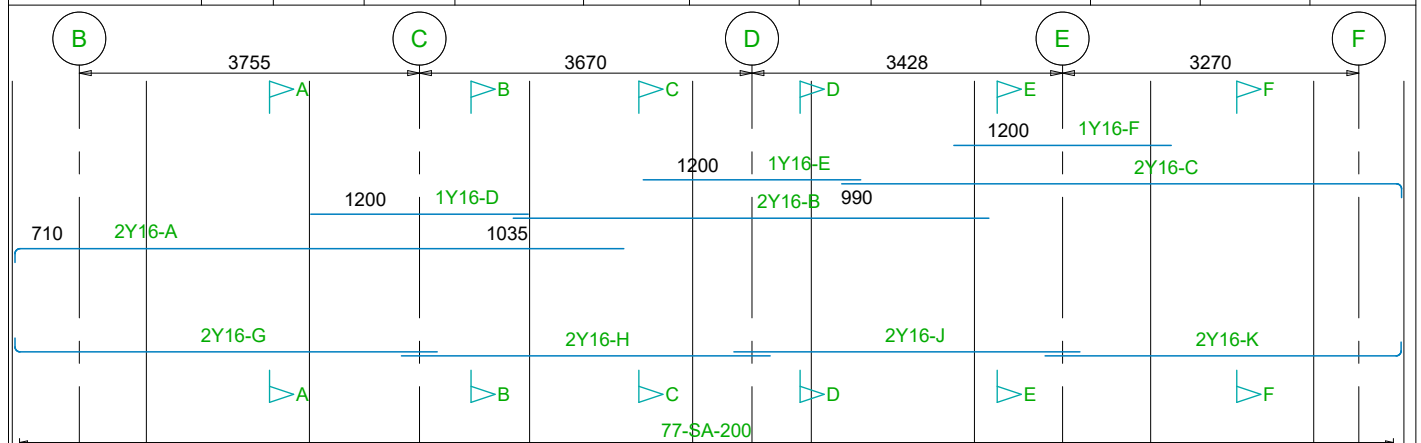
MEMBER	No OF	BARS PER MEMB	DIA	LENGTH	TOTAL NUM- BER	MARK	S C	BENDING				
								A	B	C	D	E/r
BEAM 01 280 X 595 (A-B)	2	2	Y16	5900	4	A	35	5660	220			
		2	Y20	5950	4	B	35	5660				
		1	Y16	4900	2	C	20					
		29	R10	1500	58	SA1	72	540				
		29	R10	450	58	SA2	35	220				
BEAM 03 280 X 595 (F-G)												



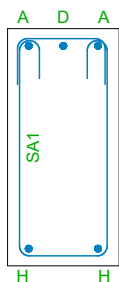
SECTION A-A

	8	10	12	16	20	25	32	40	TOT	Date	22 Sep 2020
R		70							70	Det by	I. B
Y				53	59				111	Ref Dwg	H4739 / 01
TOT		70		53	59				181	Job No	H4739
 UNITRADE 1211 CC trading as <b>OVERBERG CONSULTING ENGINEERS</b> 7 MAGNOLIA STREET NORTHCLIFF HERMANUS 7200 TEL 028 313 2600 CEL 083 325 9930										Revision	0
										Schedule No	BM-01
<b>OVERSTRAND MUNICIPALITY</b> <b>ERF 730 1 ROYAL STREET</b> <b>RC BEAM REINFORCING</b>											

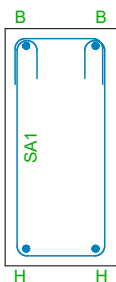
MEMBER	No OF	BARS PER MEMB	DIA	LENGTH	TOTAL NUM- BER	MARK	S C	BENDING				
								A	B	C	D	E/r
BEAM 02 280 X 595 (B-C-D-E-F)	1	2	Y16	6850	2	A	34	6720				
		2	Y16	5250	2	B	20					
		2	Y16	6300	2	C	34	6180				
		1	Y16	2400	1	D	20					
		1	Y16	2400	1	E	20					
		1	Y16	2400	1	F	20					
		2	Y16	4800	2	G	34	4660				
		2	Y16	4050	2	H	20					
		2	Y16	3800	2	J	20					
		2	Y16	4050	2	K	34	3930				
		77	R10	1500	77	SA1	72	540	220			
		77	R10	450	77	SA2	35	220				



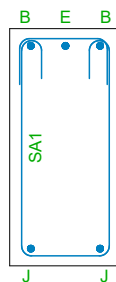
SECTION A-A



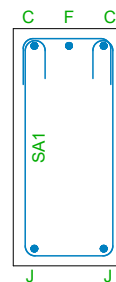
SECTION B-B



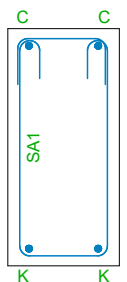
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

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R		93							93	Det by	I. B
Y				122					122	Ref Dwg	H4739 / 01
TOT		93		122					215	Job No	H4739



7 MAGNOLIA STREET  
NORTHCLIFF  
HERMANUS  
7200

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**OVERSTRAND MUNICIPALITY**  
**ERF 730 1 ROYAL STREET**  
**RC BEAM REINFORCING**

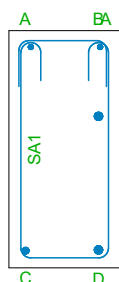
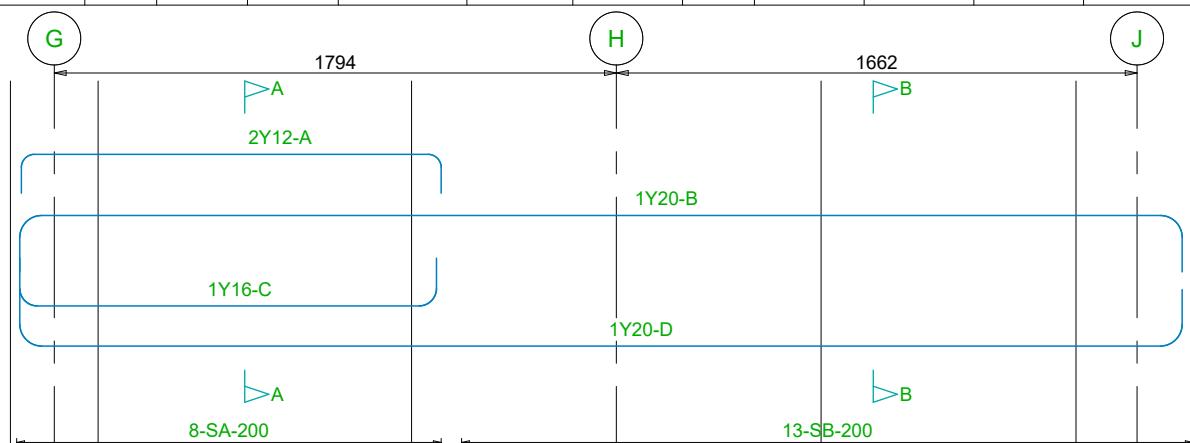
Revision

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Schedule No

BM-02


MEMBER	No OF	BARS PER MEMB	DIA	LENGTH	TOTAL NUM- BER	MARK	S C	BENDING				
								A	B	C	D	E/r
BEAM 04 280 X 595 (G-H)	1	2	Y12	1550	2	A	35	1340				
		1	Y20	4000	1	B	35	3710				
		1	Y16	1600	1	C	35	1330				
		1	Y20	4000	1	D	35	3710				
BEAM 05 155 X 425 (H-J)		8	R10	1500	8	SA1	72	540	220			
		8	R10	450	8	SA2	35	220				
		13	Y10	1050	13	SB	81	360	90			



SECTION A-A

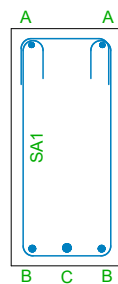
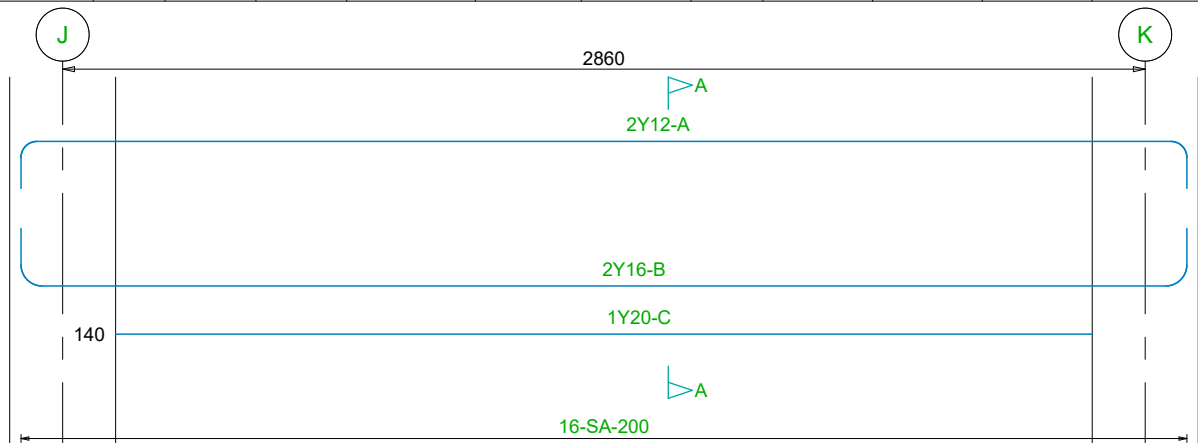


SECTION B-B

	8	10	12	16	20	25	32	40	TOT	Date	23 Sep 2020
R		10							10	Det by	I. B
Y		8	3	3	20				33	Ref Dwg	H4739 / 01
TOT		18	3	3	20				43	Job No	H4739
 UNITRADE 1211 CC trading as <b>OVERBERG CONSULTING ENGINEERS</b> 7 MAGNOLIA STREET NORTHCLIFF HERMANUS 7200 TEL 028 313 2600 CEL 083 325 9930										Revision	0
										Schedule No	BM-03

OVERSTRAND MUNICIPALITY  
ERF 730 1 ROYAL STREET  
RC BEAM REINFORCING

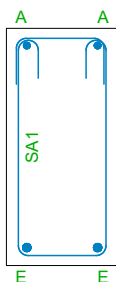
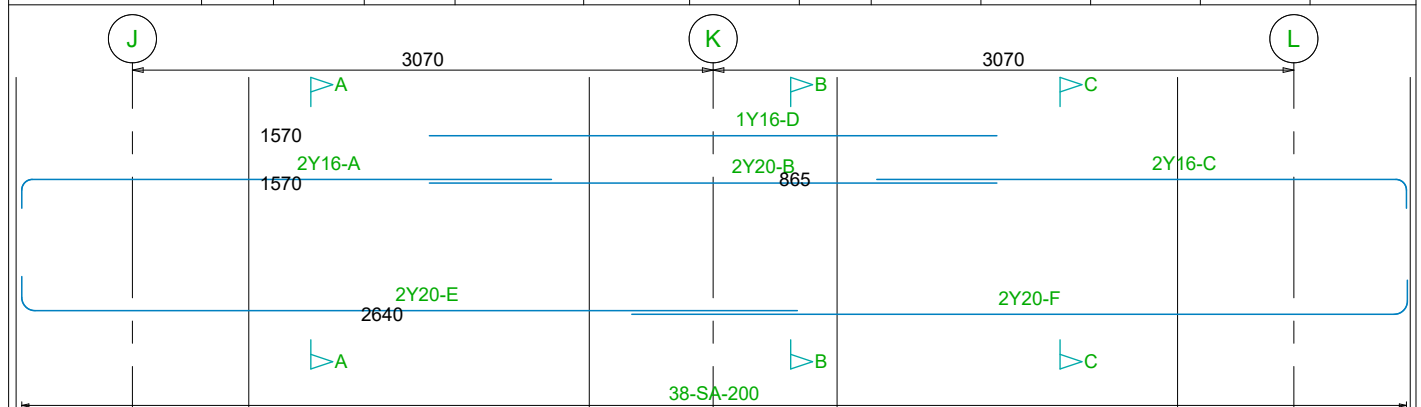
MEMBER	No OF	BARS PER MEMB	DIA	LENGTH	TOTAL NUM- BER	MARK	S C	BENDING				
								A	B	C	D	E/r
BEAM 06 280 X 595 (J-K)	2	2	Y12	3300	4	A	35	3080	220			
		2	Y16	3350	4	B	35	3080				
		1	Y20	2550	2	C	20					
		16	R10	1500	32	SA1	72	540				
		16	R10	450	32	SA2	35	220				
BEAM 08 280 X 595 (M-N)												



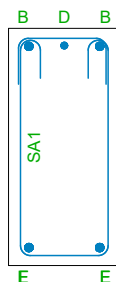
SECTION A-A

	8	10	12	16	20	25	32	40	TOT	Date	23 Sep 2020
R		38							38	Det by	I. B
Y			12	21	13				45	Ref Dwg	H4739 / 01
TOT		38	12	21	13				84	Job No	H4739
 UNITRADE 1211 CC trading as <b>OVERBERG CONSULTING ENGINEERS</b> 7 MAGNOLIA STREET NORTHCLIFF HERMANUS 7200 TEL 028 313 2600 CEL 083 325 9930										Revision	0
										Schedule No	BM-04
<b>OVERSTRAND MUNICIPALITY</b> <b>ERF 730 1 ROYAL STREET</b> <b>RC BEAM REINFORCING</b>											

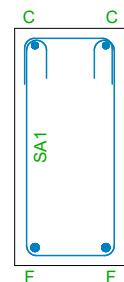
MEMBER	No OF	BARS PER MEMB	DIA	LENGTH	TOTAL NUM- BER	MARK	S C	BENDING				
								A	B	C	D	E/r
BEAM 07 280 X 595 (K-L-M)	1	2	Y16	2950	2	A	34	2800	220			
		2	Y20	3000	2	B	20					
		2	Y16	2950	2	C	34	2800				
		1	Y16	3000	1	D	20					
		2	Y20	4250	2	E	34	4100				
		2	Y20	4250	2	F	34	4100				
		38	R10	1500	38	SA1	72	540				
		38	R10	450	38	SA2	35	220				



SECTION A-A



SECTION B-B



SECTION C-C

	8	10	12	16	20	25	32	40	TOT	Date	23 Sep 2020
R		46							46	Det by	I. B
Y				23	57				80	Ref Dwg	H4739 / 01
TOT		46		23	57				126	Job No	H4739



7 MAGNOLIA STREET  
NORTHCLIFF  
HERMANUS  
7200

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**OVERSTRAND MUNICIPALITY**  
**ERF 730 1 ROYAL STREET**  
**RC BEAM REINFORCING**

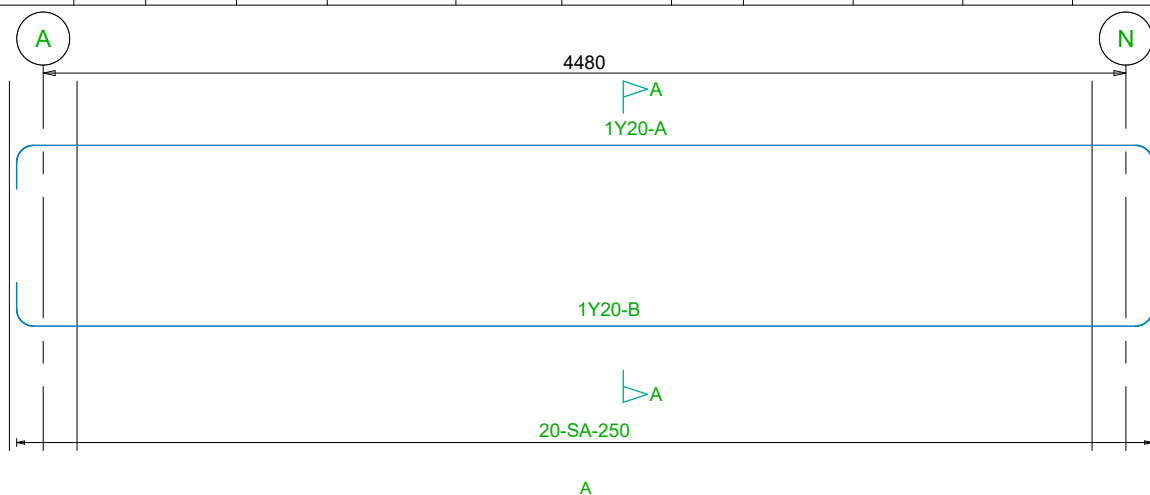
Revision

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Schedule No

BM-05

MEMBER	No OF	BARS PER MEMB	DIA	LENGTH	TOTAL NUM- BER	MARK	S C	BENDING				
								A	B	C	D	E/r
BEAM 09 125 X 425 (N-P-A)	1	1	Y20	5000	1	A	35	4700	90			
		1	Y20	5000	1	B	35	4700				
		20	R10	1050	20	SA	81	360				



SECTION A-A

	8	10	12	16	20	25	32	40	TOT	Date	23 Sep 2020
R		13							13	Det by	I. B
Y					25				25	Ref Dwg	H4739 / 01
TOT		13			25				38	Job No	H4739
 UNITRADE 1211 CC trading as <b>OVERBERG CONSULTING ENGINEERS</b> 7 MAGNOLIA STREET NORTHCLIFF HERMANUS 7200 TEL 028 313 2600 CEL 083 325 9930										Revision	0
										Schedule No	BM-06

OVERSTRAND MUNICIPALITY  
ERF 730 1 ROYAL STREET  
RC BEAM REINFORCING

MEMBER			No OF	BARS PER MEMB	DIA.	LENGTH		TOTAL NUM- BER	MARK	S C	B E N D I N G				
											A	B	C	D	E/r
RC SLAB BOTTOM REINFORCING			1	16	Y12	4850	16	01	35	4660					
				12	Y12	4950	12	02	34	4840					
				12	Y12	7750	12	03	20						
				12	Y12	4000	12	04	34	3870					
				16	Y12	3900	16	05	35	3690					
				17	Y12	5850	17	06	35	5620					
				37	Y12	2950	37	07	35	2760					
				22	Y12	5850	22	08	35	5620					
TOP REINFORCING				36	Y12	3950	36	09	55	300	190	3100	190		
				12	Y12	2150	12	10	55	300	190	1265	190		
				20	Y12	2150	20	11	55	300	190	1265	190		
				38	Y12	2250	38	12	55	300	190	1400	190		
				52	Y12	2250	52	13	55	300	180	1400	180		
				20	Y12	4450	20	14	55	300	180	3620	180		
				26	Y12	3600	26	15	55	300	180	2760	180		
				STOOLS				30	Y12	950	30	ST01	83	250	190