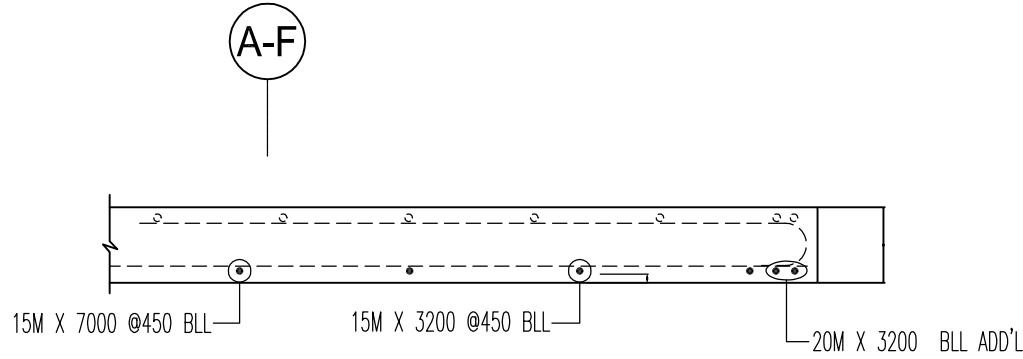
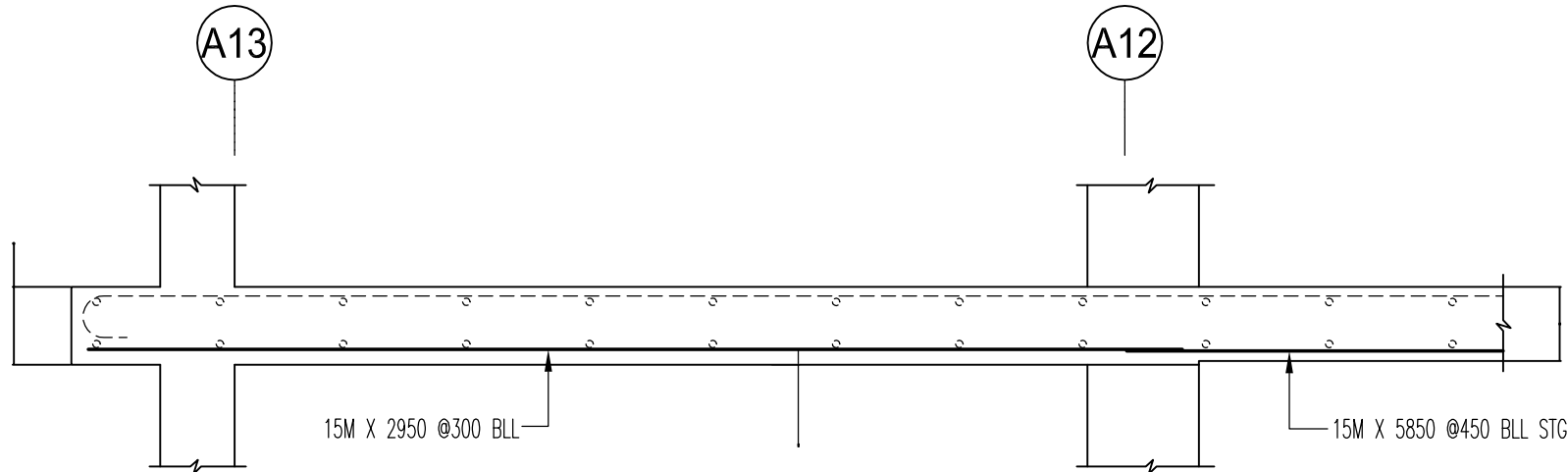


2nd FLOOR SLAB BLL
SCALE: 1:100

PLEASE USE LATEST DWGS FOR STAIR OPENINGS AND UPDATED REINFORCING DETAILS

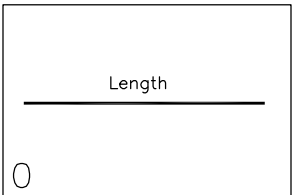


SECTION 1
SCALE: 1:20



SECTION 2
SCALE: 1:20

Release Code: R9.0A L2 BLL P#1-3 BENDING DETAILS.														
Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'	J'
	351	15M	5850			5850								
	14	15M	7650			7650								
	32	15M	6850			6850								
	14	15M	6000			6000								
	2	15M	7000			7000								
	58	15M	3200			3200								
	12	15M	3900			3900								
	54	15M	2950			2950								
	6	15M	1250			1250								
	24	15M	5100			5100								
	6	20M	4000			4000								
	66	15M	4500			4500								
	10	15M	4200			4200								
	36	20M	3200			3200								
	8	20M	3900			3900								
	8	20M	4500			4500								
	12	15M	340			340								
	4	15M	2300			2300								
	4	15M	3700			3700								
	4	15M	2000			2000								



DRAWING REVIEW
This review of this drawing does not in any way relieve the contractor of responsibility for its accuracy or for compliance with the contract documents.

No comment	See comment
Amend & Resubmit	Rejected See Remarks

Submission No. 15066
Project No. AE
By AE
Date 01 Jun 2021
JABLONSKY, AST AND PARTNERS
Consulting Engineers
3 Concorde Gate, North York, ON M3C 4H8

* ELEVATIONS AND DIMENSIONS SHOWN ARE FOR VERIFICATION PURPOSES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION		
* ALL CONFIRMS/VERIFIES WILL BE ASSUMED CORRECT AND APPROVED AS IS UNLESS COMMENTED ON THE APPROVAL DWGS		
LEGEND		
ALT = ALTERNATE	FS = FORM SAVER	OF = OUTSIDE FACE
BOT = BOTTOM	GID = GROUT IN DOWELS	SC = SAW CUT END
BIS = BEND INTO SLAB	H = HORIZONTAL	STG = STAGGER
CB = CORNER BAR	IF = INSIDE FACE	T = TOP
CTS = CUT TO SUIT SITE COND.	LL = LOWER LAYER	THR/2 = THREAD END
DWL = DOWELS	MD = MIDDLE	THR/2 = THREAD ZENOS
EE = EACH END	MIN = MINIMUM	UL = UPPER LAYER
EF = EACH FACE	NF = NEAR FACE	W/n = UNLESS NOTED
EJ = EXPANSION JOINT	OC = ON CENTER	V = VERTICAL
ES = EACH SIDE	TT = TEMP. TIES	
EW = EACH WAY		
STRAIGHT BARS LABEL FORMAT		
7 B15M X 3600		
QUANTITY	LENGTH	
BENT BARS LABEL FORMAT		
7 B15M B1501		
QUANTITY	SIZE	BAR MARK
GRADES OF STEEL		
B = GRADE 400B		
C = GRADE 500C		
CS = CRACK RESISTANT		
SS = STAINLESS		
W = WELDABLE		

NOTES

1. ALL STEEL TO BE GRADE 400W
2. STRENGTH OF CONCRETE
35MPa - SLABS

3. CONCRETE COVER:
TIES
SLAB (T&B)

-- 40mm
-- 25mm

4. COMPRESSION LAP SPLICE

BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

5. TENSION LAP SPLICE (Ls) & DEVELOPMENT LENGTH (Ld)
(FOR WALL OR COL & Ld IN CAP OR FTG.)

BAR SIZE	fc=25		fc=30		fc=35	
	L.s	L.d	L.s	L.d	L.s	L.d
10M	380	330	350	300	320	300
15M	570	490	520	400	480	370
20M	750	650	690	530	640	490
25M	1170	1010	1070	830	990	770
30M	1410	1210	1290	990	1190	920
35M	1640	1410	1500	1160	1390	1070

MANSTEEL
R.E.B.A.R.

MANSTEEL REBAR
105 Industrial Road, Richmond Hill,
Ontario L4C 2Y4 Canada
Phone: 905-737-9797
Fax: 905-737-9704
Email: info@mansteelrebar.com

PROJECT
FORESTSIDE TOWNHOUSES
-BRAMPTON, ON

PART OF STRUCTURE
L2 SLAB BLL P#1,2,3

CUSTOMER:
ROYAL PINE HOMES

Project no. 2177
SCALE: AS SHOWN
DRAWING No. R9.0A




SCALE: 1:100

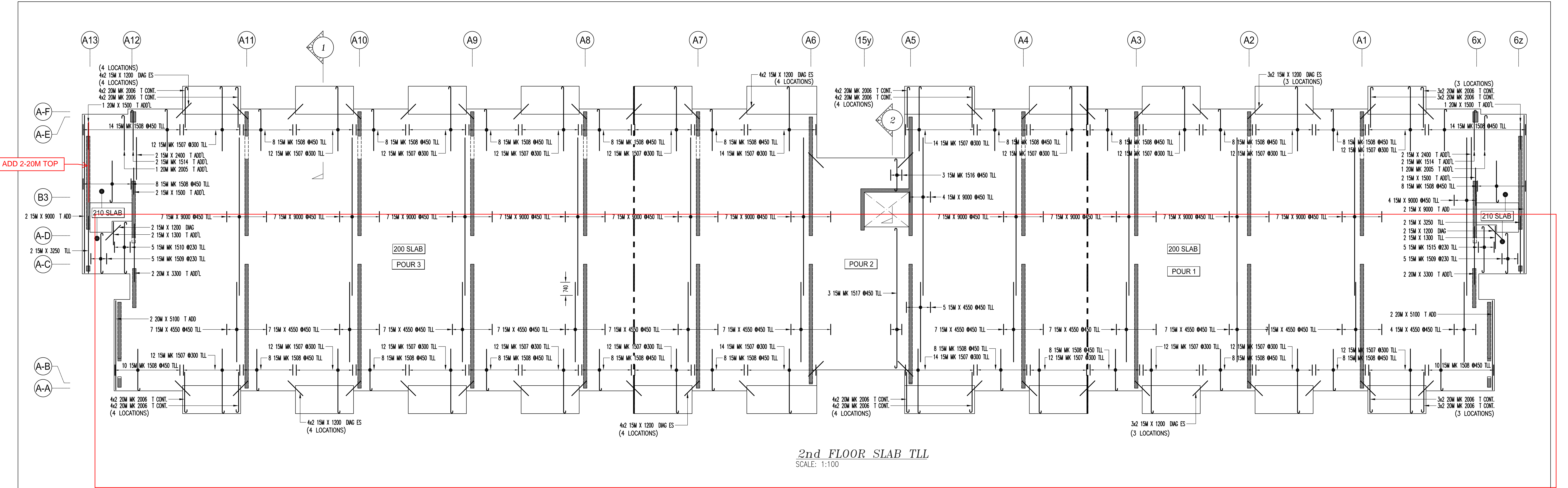
Length

SECTION 1
SCALE: 1:20

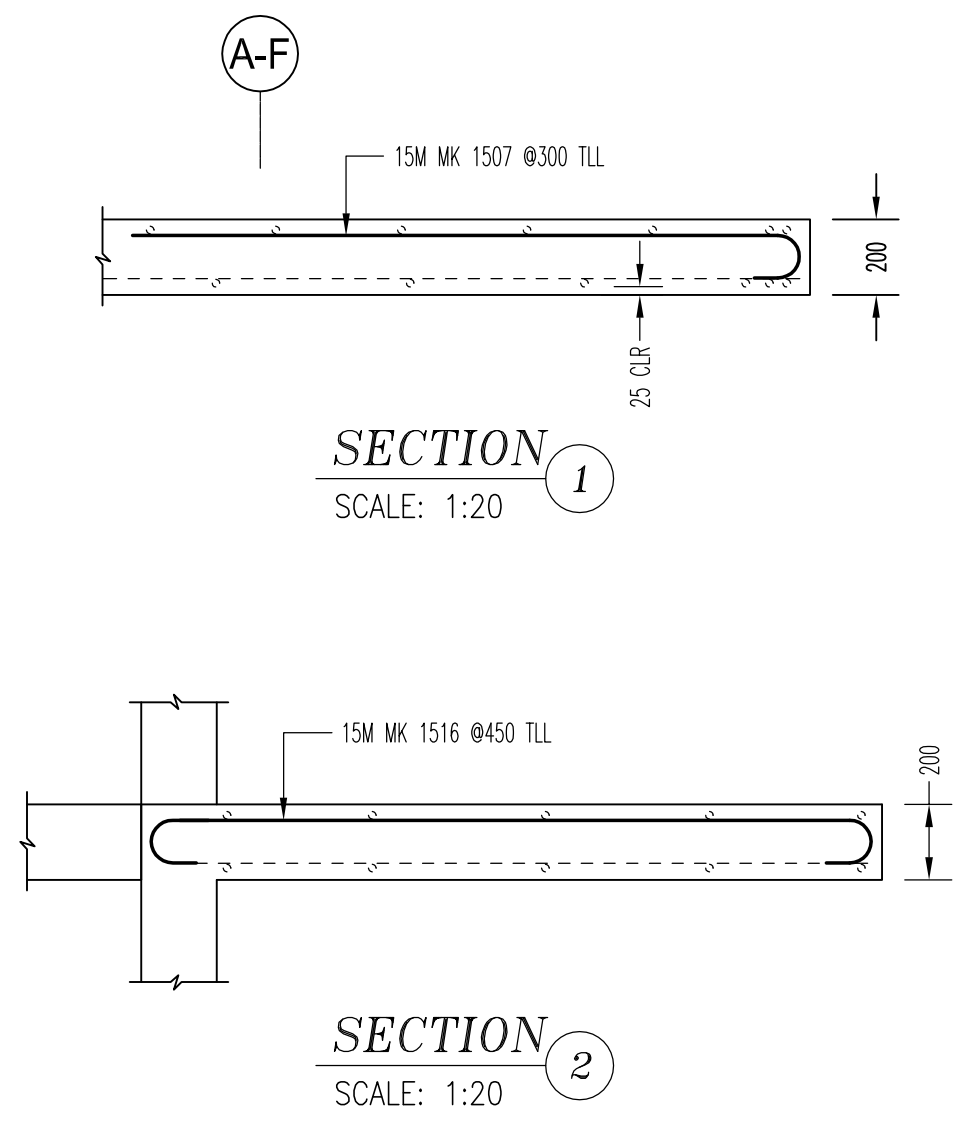
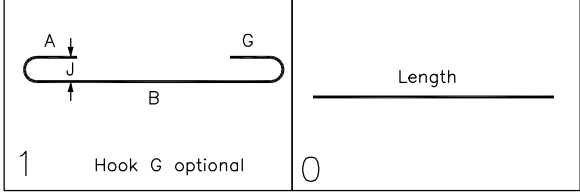
SECTION 2
SCALE: 1:20

PROJECT		FORESTSIDE TOWNHOUSES -BRAMPTON, ON	
PART OF STRUCTURE		L2 SLAB BUL P#1,2,3	
CUSTOMER : ROYAL PINE HOMES		Project no. : 2177	
		SCALE: AS SHOWN	
		DRAWING No.	
DETAILED BY: JU	BAR LIST No.	R9.0B 	
CHECKED BY:			

BAR SIZE	fc=25		fc=30		fc=35	
	L.S	L.d	L.S	L.d	L.S	L.d
10M	380	330	350	300	320	300
15M	570	490	520	400	480	370
20M	750	650	690	530	640	490
25M	1170	1010	1070	830	990	770
30M	1410	1210	1290	990	1190	920
35M	1640	1410	1500	1160	1390	1070



Release Code: R9.0C TLL P#1-3 BENDING DETAILS.													
Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'
4 20M	3300		3300										
8 15M	9000		9000										
7 15M	4550		4550										
4 15M	1300		1300										
4 20M	5100		5100										
2 20M	1500		1500										
4 15M	1500		1500										
4 15M	3250		3250										
4 15M	2400		2400										
9 15M	1200		1200										
2006	88 20M	2520 1	220	2300									160
1507	272 15M	3850 1	180	3670									130
1508	208 15M	2550 1	180	2370									130
1509	10 15M	2660 1	180	2380									130
1510	5 15M	3290 1	180	2930									130
1515	5 15M	3000 1	180	2640									130
2005	2 20M	2220 1	220	2000									160
1514	4 15M	2480 1	180	2280									130
1517	3 15M	8360 1	180	8000									130
1516	3 15M	2270 1	180	850									130



DRAWING REVIEW

This review of this drawing does not in any way relieve the contractor of responsibility for its accuracy or for compliance with the contract documents.

No comment

See comment

Amend & Resubmit

Rejected See Remarks

Submission No. 19065

Project No. AF

By 01 Jun 2021

JABLONSKY, AST AND PARTNERS Consulting Engineers 3 Concorde Gate, North York, ON M3C 4H9

NOTES		4, COMPRESSION LAP SPLICE		5, TENSION LAP SPLICE (L.S.) & DEVELOPMENT LENGTH (Ld) (FOR WALL OR COL & Ld IN CAP OR FTG.)	
1, ALL STEEL TO BE GRADE 400W					
2, STRENGTH OF CONCRETE 35MPa - SLABS					
3, CONCRETE COVER: TIES 40mm SLAB (T&B) 25mm					
BAR SIZE	STANDARD LAP (mm)	BAR SIZE	fc=25 L.S. L.d	fc=30 L.S. L.d	fc=35 L.S. L.d
10M	300	10M	380	330	350
15M	440	15M	570	490	520
20M	590	20M	750	650	690
25M	730	25M	1170	1010	1070
30M	880	30M	1410	1290	1190
35M	1030	35M	1640	1410	1500

ELEVATIONS AND DIMENSIONS SHOWN ARE FOR VERIFICATION PURPOSES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION

ALL CONFIRMS/VERIFIES WILL BE ASSUMED CORRECT AND APPROVED AS IS UNLESS COMMENTED ON THE APPROVAL DRWS

LEGEND

ALT = ALTERNATE
BOT = BOTTOM
BIS = BEND INTO SLAB
CB = CORNER BAR
CTS = CUT TO SUIT SITE COND.
DWL = DOWELS
EE = EACH END
EF = EACH FACE
EJ = EXPANSION JOINT
ES = EACH SIDE
EW = EACH WAY

FF = FAR FACE
FS = FORM SAVER
GID = GROUT IN DOWELS
H = HORIZONTAL
IF = INSIDE FACE
LL = LOWER LAYER
MD = MIDDLE
MIN = MINIMUM
NF = NEAR FACE
OC = ON CENTER

OF = OUTSIDE FACE
SC = SAW CUT END
STG = STAGGER
STR = STIRRUPS
T = TOP
THR/2 = THREAD END
THR/2 = THREAD ZENOS
UL = UPPER LAYER
U/N = UNLESS NOTED
V = VERTICAL
TT = TIE/TIES

STRAIGHT BARS LABEL FORMAT

7 B15M X 3600

QUANTITY

LENGTH

BENT BARS LABEL FORMAT

7 B15M B1501

QUANTITY

SIZE

BAR MARK

GRADES OF STEEL

B = GRADE 400W
C = GRADE 500W
CRB = CRACK RESISTANT
G = GRADE 600W
S = STAINLESS
W = WELDABLE

FOR APPROVAL

MAY/26/21

BY

MANSTEEL

REBAR

MANSTEEL REBAR

105 Industrial Road, Richmond Hill, Ontario L4C 2Y4 Canada
Phone: 905-737-9797
Fax: 905-737-9704
Email: info@mansteelrebar.com

PROJECT

FORESTSIDE TOWNHOUSES -BRAMPTON, ON

PART OF STRUCTURE

L2 SLAB TLL P#1,2,3

CUSTOMER

ROYAL PINE HOMES

Project no.

2177

SCALE

AS SHOWN

DRAWING No.

R9.0C


Detailed By

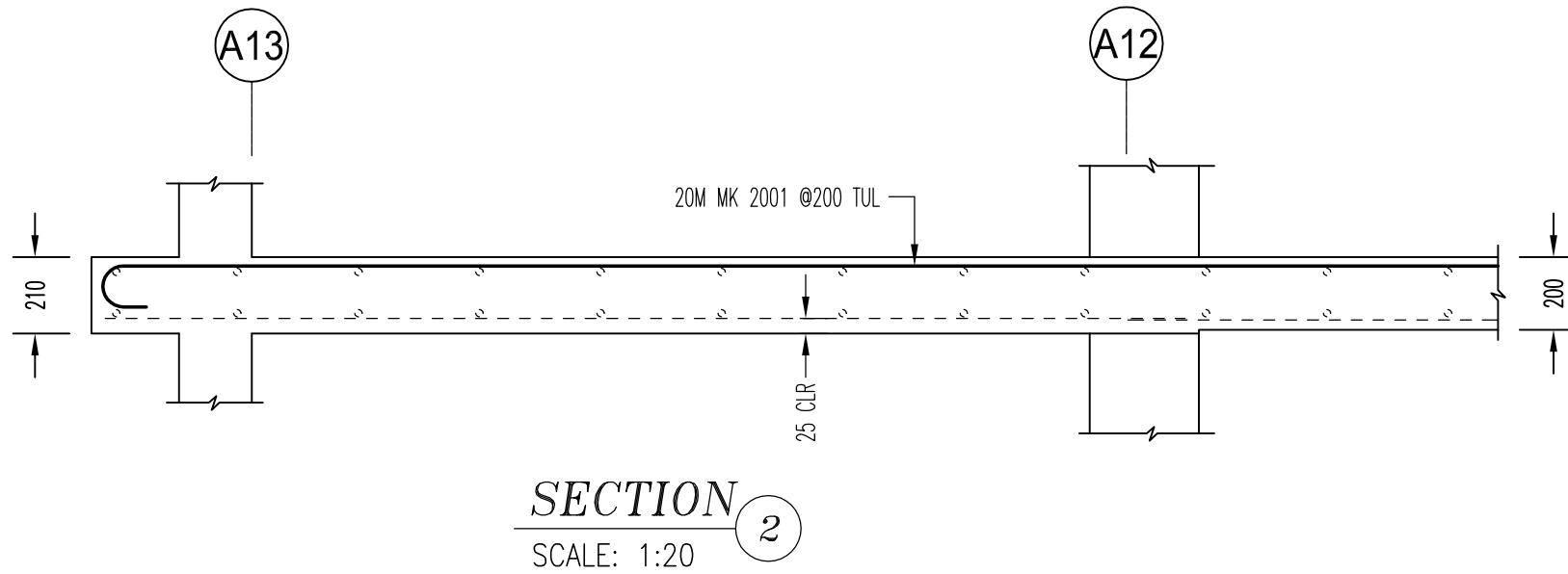
JU

Bar List No.

Checked By



	<p>Length _____</p>
<p>1 Hook G optional</p>	<p>0</p>



- * ELEVATIONS AND DIMENSIONS SHOWN ARE FOR VERIFICATION PURPOSES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION
- * ALL CONFORMS/VERIFIES WILL BE ASSUMED CORRECT AND APPROVED AS UNLESS COMMENTED ON THE APPROVAL DRWGOS

LEGEND

ALT = ALTERNATE	FT = FOOT	OF = OFF
BS = BEND INTO	FS = FUSE	OSW = SW OUT END
BSB = BEND INTO SLAB	GD = GROUND IN DOWELS	STG = STAGGER
BSL = BEND INTO SLAB	HS = HANG STAYS	STR = STRAIGHT
CD = CONTROL	I = INSIDE FACE	T = TOP
CDL = CONTROL JOINT	LL = LOWER LAYER	THR/2 = THROAT ENDS
CDLW = CONTROL JOINT	MD = MIDDLE	UL = UPPER LAYER
ED = EACH FACE	MM = MINIMUM	U = UPPER
ES = EACH SIDE	NC = NEAR FACE	UNL = UNLESS NOTED
ESL = EACH SIDE	OC = ON CENTER	V = VERTICAL
ESLW = EACH SIDE		W = WELDED

The logo for Mansteel Rebar is presented in a clean, professional layout. On the left, the words "MANSTEEL" and "REBAR" are stacked vertically in a bold, sans-serif font, separated by a stylized graphic of a rebar with green spiral ribs. To the right, the company name "MANSTEEL REBAR" is displayed in a large, bold, serif font. Below this, the company's address, phone, fax, and email information are listed in a smaller, sans-serif font.

CUSTOMER :		Project no. 2177				
ROYAL PINE HOMES		SCALE: AS SHOWN				
<table border="1"> <tr> <td>DETAILED BY: JU</td> <td rowspan="2">BAR LIST No.</td> </tr> <tr> <td>CHECKED BY:</td> </tr> </table>		DETAILED BY: JU	BAR LIST No.	CHECKED BY:	DRAWING No. <div style="display: flex; align-items: center; justify-content: center;"> R9.0D </div>	
DETAILED BY: JU	BAR LIST No.					
CHECKED BY:						

BAR SIZE	fc=25		fc=30		fc=35	
	L.S	L.d	L.S	L.d	L.S	L.d
10M	380	330	350	300	320	300
15M	570	490	520	400	480	370
20M	750	650	690	530	640	490
25M	1170	1010	1070	830	990	770
30M	1410	1210	1290	990	1190	920
35M	1640	1410	1500	1160	1390	1070