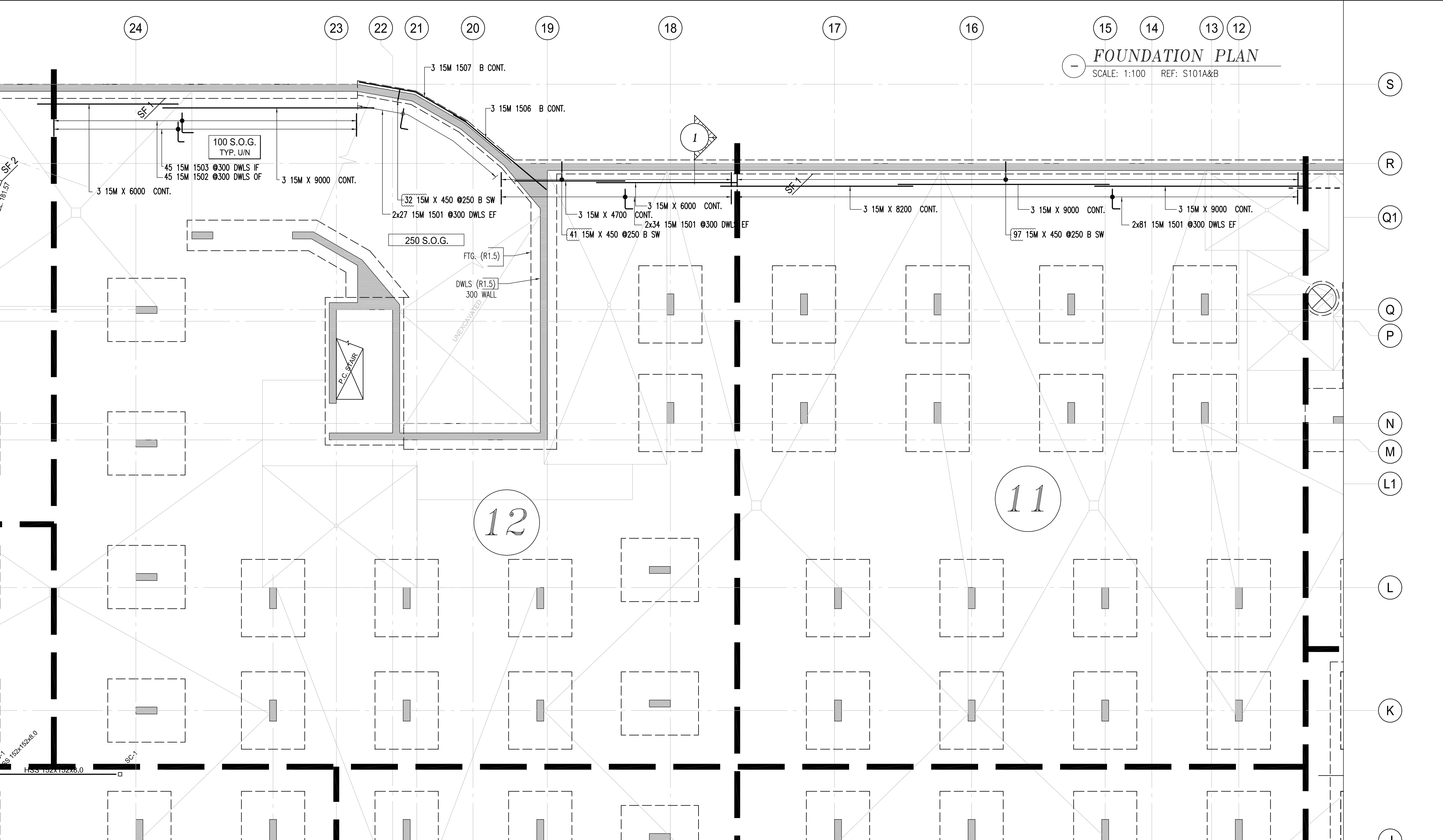
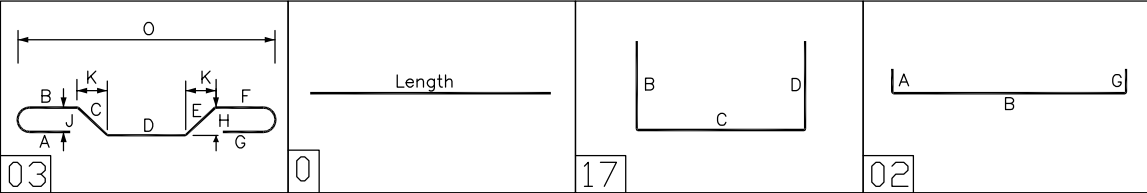




Release Code: R2.4 STRIP FTG P#11,12 BENDING DETAILS.												
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'
170	15M	450	450									
3	15M	4700	4700									
6	15M	6000	6000									
9	15M	9000	9000									
3	15M	8200	8200									
1501	284	15M	1000	17			330		850			
1506	3	15M	5090	3			4460		630		120	610
1507	3	15M	4930	3			2500		2430		840	2280
1502	45	15M	1330	17			480		850			4780
1503	45	15M	1110	2		260	850					



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. Project No. 19066	
By AF	
Date 23 Apr 2021	
JABLONSKY, AST AND PARTNERS Consulting Engineers 3 Concorde Gate, North York, ON M3C 4H9	

- * 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 DRWGS

LEGEND		
ALT = ALTERNATE	FF = FAR FACE	OF = OUTSIDE FACE
BOT = BOTTOM	FS = FORM SAVER	SC = SAW CUT END
BIS = BEND INTO SLAB	GID = GROUT 'N DOWELS	STG = STAGGER
CB = CORNER BAR	H = HORIZONTAL	STR = STRIPS
CJS = CONTROL JOINT	IF = INSIDE FACE	T = TOP
CUT = CUT TO SUIT SITE COND.	LL = LOWER LAYER	THR/1 = THREAD LENG
DWL = DOWELS	MD = MIDDLE	THR/2 = THREAD ZENDS
EE = EACH END	MIN = MINIMUM	UL = UPPER LAYER
EF = EACH FACE	NF = NEAR FACE	UNLESS NOTED
EJ = EXPANSION JOINT	OC = ON CENTER	V = VERTICAL
ES = EACH SIDE	TT = TIE	W = WELDABLE
EW = EACH WAY		

STRAIGHT BARS LABEL FORMAT		BENT BARS LABEL FORMAT	GRADES OF STEEL
7 B15M X 3600	7 B15M B1501	7 B15M B1501	B = GRADE 400W
GRADE	GRADE	GRADE	C = EPOXY COATED
QUANTITY	QUANTITY	QUANTITY	D = DFR
			S = GALVANIZED
			W = WELDABLE

FOR APPROVAL APR/21/21 JU

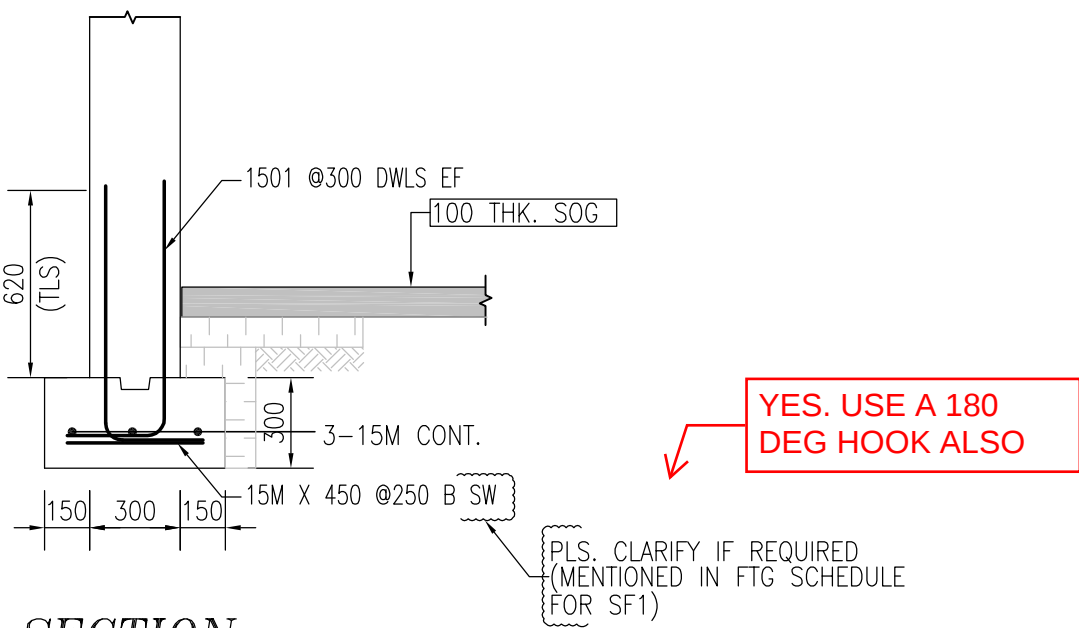
ISSUE REMARKS DATE BY

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
STRIP FOOTINGS P#11,12

CUSTOMER : ROYAL PINE HOMES
Project no. 2177
SCALE: AS SHOWN
DRAWING No. R2.4
DETAILED BY: JU
BAR LIST No.
CHECKED BY:



SECTION 1
SCALE: 1:25
REF: S/5201

NOTES

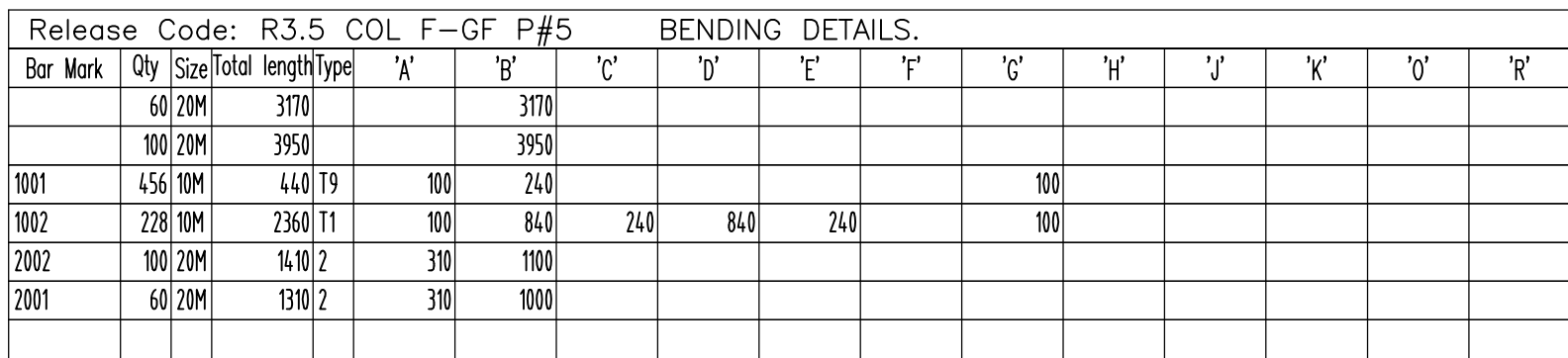
1. ALL STEEL TO BE GRADE 400W
2. STRENGTH OF CONCRETE
35MPa - FOOTINGS
35MPa - INTERIOR COLUMNS & WALLS
3. CONCRETE COVER:
FTG., FND. CAST AGAINST EARTH --- 75mm
TIES --- 30mm

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	490	380	450	350	420	320
15M	740	570	670	520	620	480
20M	980	750	890	690	830	640
25M	1530	1170	1390	1070	1290	990
30M	1830	1410	1670	1290	1550	1190
35M	2130	1640	1950	1500	1800	1390



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0	FOR APPROVAL	APR/21/21	ju
ISSUE	REMARKS	DATE	BY

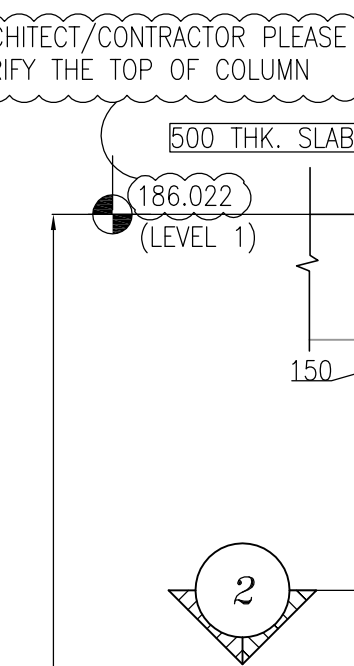
PROJECT	FORESTSIDE TOWNHOUSES -BRAMPTON, ON
PART OF STRUCTURE	COLUMNS FTG-GF -P#5

CUSTOMER :		Project no. 2177	
ROYAL PINE HOMES		SCALE: AS SHOWN	
		DRAWING No.	
DETAILED BY: JU	BAR LIST No.	R3.4	
CHECKED BY:			

1, ALL STEEL TO BE GRADE 400W
2, STRENGTH OF CONCRETE
35MPa - INTERIOR COLUMNS & WALLS

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

BAR SIZE	fc=25		fc=30		fc=35	
	L.S	L.d	L.S	L.d	L.S	L.d
10M	490	380	450	350	420	320
15M	740	570	670	520	620	480
20M	980	750	890	690	830	640
25M	1530	1170	1390	1070	1290	990
30M	1830	1410	1670	1290	1550	1190
35M	2130	1640	1950	1500	1800	1390



			
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PROJECT		FORESTSIDE TOWNHOUSES -BRAMPTON, ON	
PART OF STRUCTURE		COLUMNS FTG-GF -P#6	
CUSTOMER :		Project no. 2177	
ROYAL PINE HOMES		SCALE: AS SHOWN	
DETAILED BY: JU		DRAWING No. R3.5 	
CHECKED BY:			
BAR LIST No.			

Submission No. _____
Project No. **19066**
By **AF**
Date **23 Apr 2021**

JABLONSKY, AST AND PARTNERS
Consulting Engineers
3 Concorde Gate, North York, ON M3C 4H5

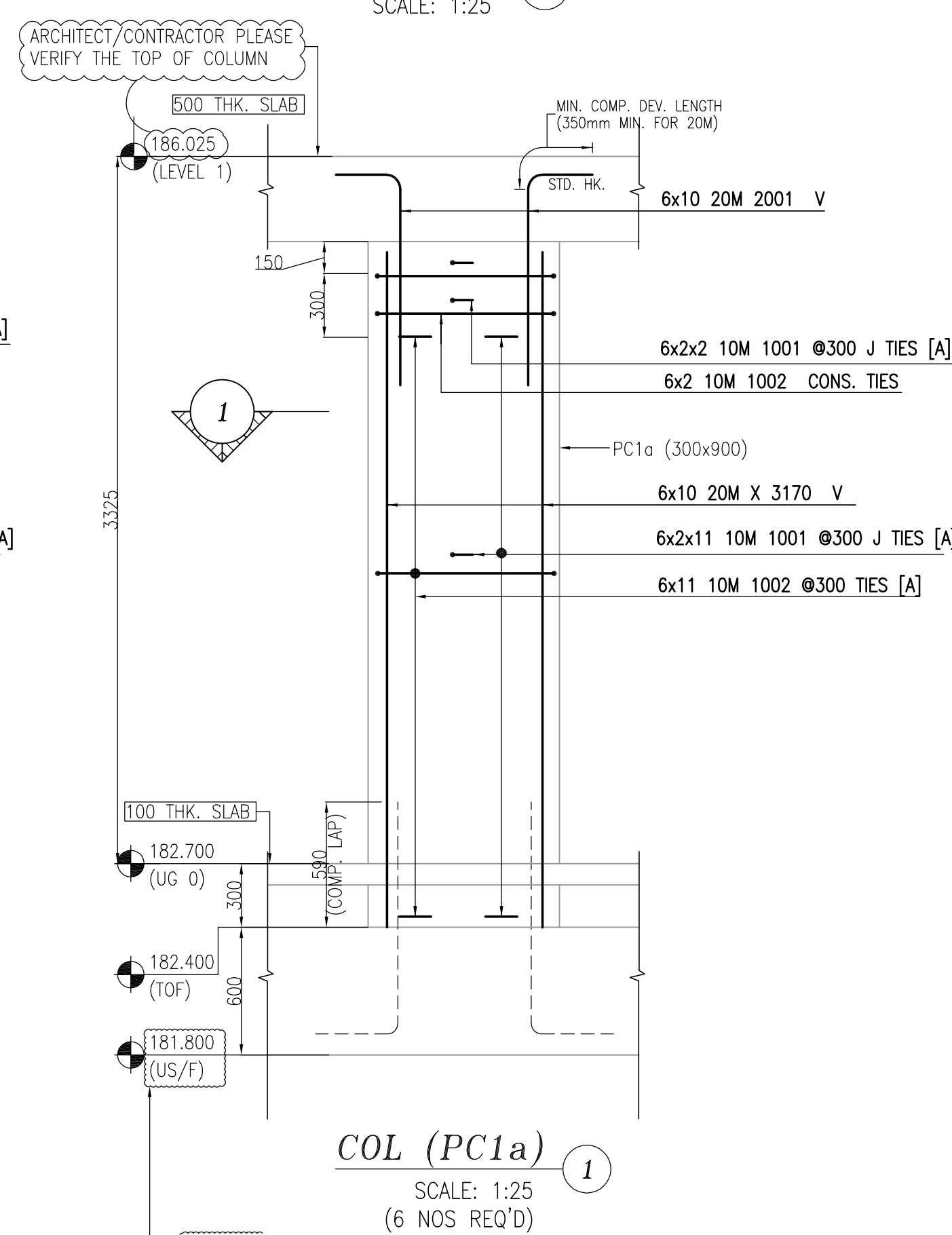
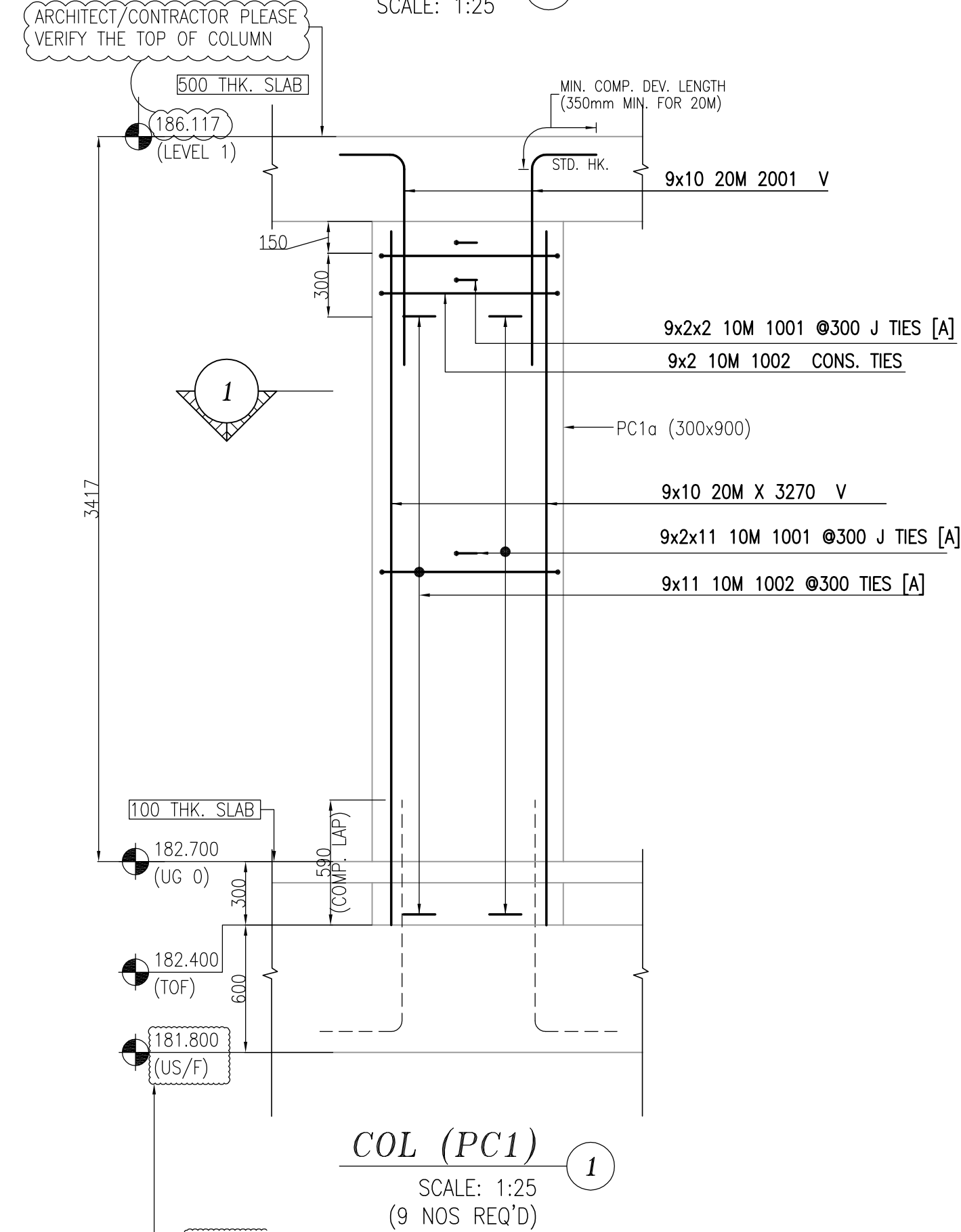
-- 30mm

30M	880
35M	1030

BAR SIZE	fc=25		fc=30		fc=35	
	L.S	L.d	L.S	L.d	L.S	L.d
10M	490	380	450	350	420	320
15M	740	570	670	520	620	480
20M	980	750	890	690	830	640
25M	1530	1170	1390	1070	1290	990
30M	1830	1410	1670	1290	1550	1190
35M	2130	1640	1950	1500	1800	1390

BAR SIZE	fc=25		fc=30		fc=35	
	L.S	L.d	L.S	L.d	L.S	L.d
10M	490	380	450	350	420	320
15M	740	570	670	520	620	480
20M	980	750	890	690	830	640
25M	1530	1170	1390	1070	1290	990
30M	1830	1410	1670	1290	1550	1190
35M	2130	1640	1950	1500	1800	1390

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



			
T9	T1	O	02

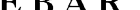
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LEGEND					
ALT =	ALTERNATE	FF =	FAR FACE	OF =	OUTSIDE FACE
BOT =	BOTTOM	FS =	FORM SAVER	SC =	SAW CUT END
BIS =	BEND INTO SLAB	GD =	GROUT IN DOWELS	STG =	STAGGER
CBS =	CORNER BAR	H =	HORIZONTAL	STIR =	STIRRUPS
CJ =	CONTROL JOINT	I =	INSIDE FACE	T	TOP
CS =	CUT TO SUIT SITE COND.	IF =	INSIDE FACE	TH/1 =	THICK 1END
DWL =	DOWELS	L =	LOWER LAYER	TH/2 =	THICK 2ENDS
EE =	EACH END	MD =	MID	UL =	UPPER LAYER
EF =	EACH FACE	MIN =	MINIMUM	u/n =	UNLESS NOTED
ES =	EXPANSION JOINT	NF =	NEAR FACE	V	VERTICAL
EJ =	EACH SIDE	OF =	ON CENTER	T	TEMP. LYS
EW =	EACH WAY				

STRAIGHT BARS LABEL FORMAT	BENT BARS LABEL FORMAT	GRADES OF STEEL
7 B15M X 3600 QUANTITY GRADE LENGTH	7 B15M B1501 QUANTITY GRADE SIZE BAR MARK	A = GRADE 400R E = EPOXY COATED G = GFRP S = GALVANIZED T = STAINLESS W = WELDABLE

0	FOR APPROVAL	APR/21/21	J
ISSUE	REMARKS	DATE	BY

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
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PROJECT		FORESTSIDE TOWNHOUSES -BRAMPTON, ON	
PART OF STRUCTURE		COLUMNS FTG-GF -P#8	
CUSTOMER : ROYAL PINE HOMES		Project no. 2177	
		SCALE: AS SHOWN	
		DRAWING No.	
DETAILED BY: <u> JU </u>	BAR LIST No.		
CHECKED BY:	R3.7 		

1, ALL STEEL TO BE GRADE 400W
2, STRENGTH OF CONCRETE
35MPa - INTERIOR COLUMNS & WALLS

-- 30mm

PROJECT		FORESTSIDE TOWNHOUSES -BRAMPTON, ON	
PART OF STRUCTURE		COLUMNS FTG-GF -P#8	
CUSTOMER : ROYAL PINE HOMES		Project no. 2177	
		SCALE: AS SHOWN	
		DRAWING No.	
DETAILED BY: <u> JU </u>	BAR LIST No.		
CHECKED BY:	R3.7 		