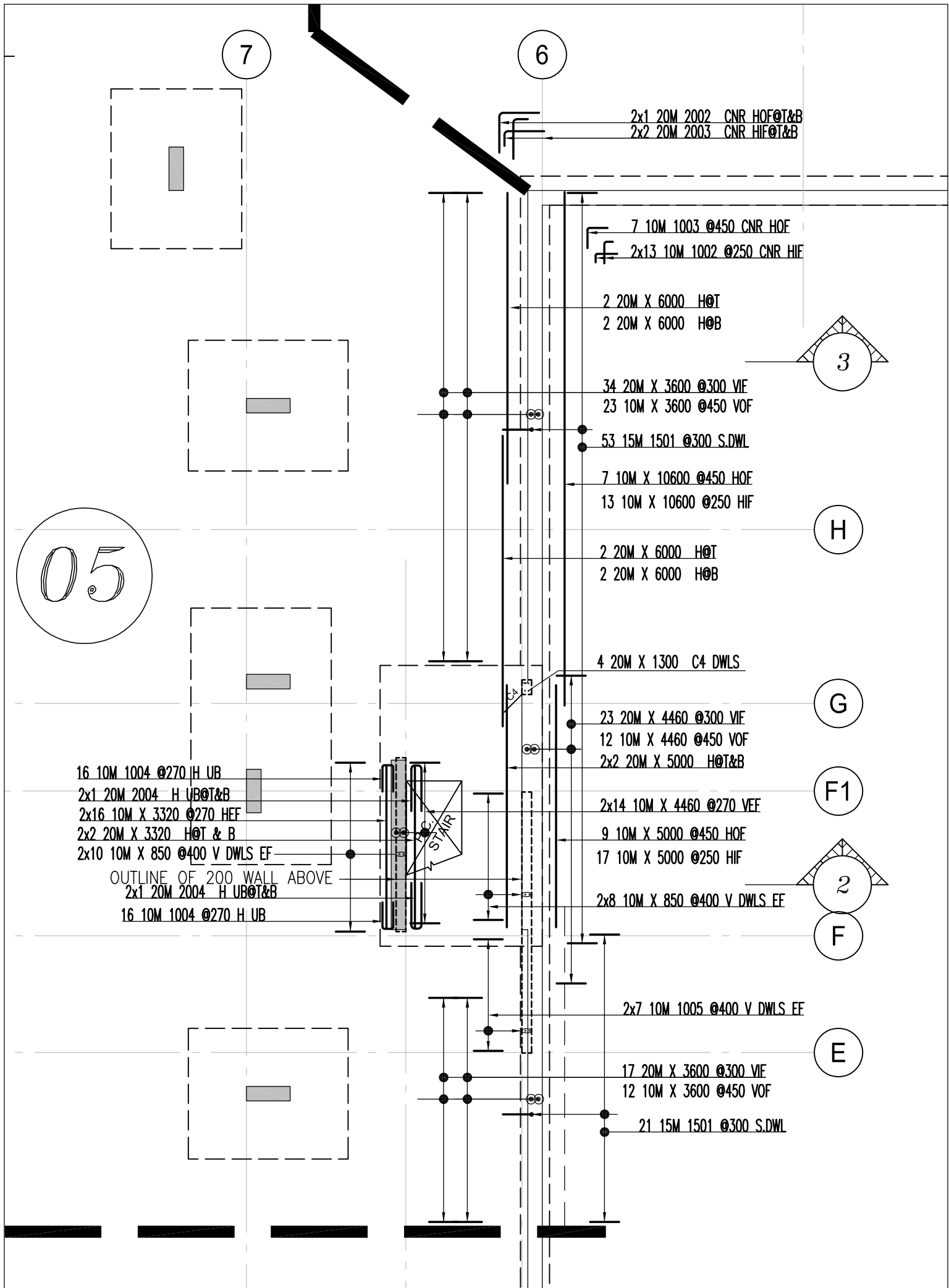
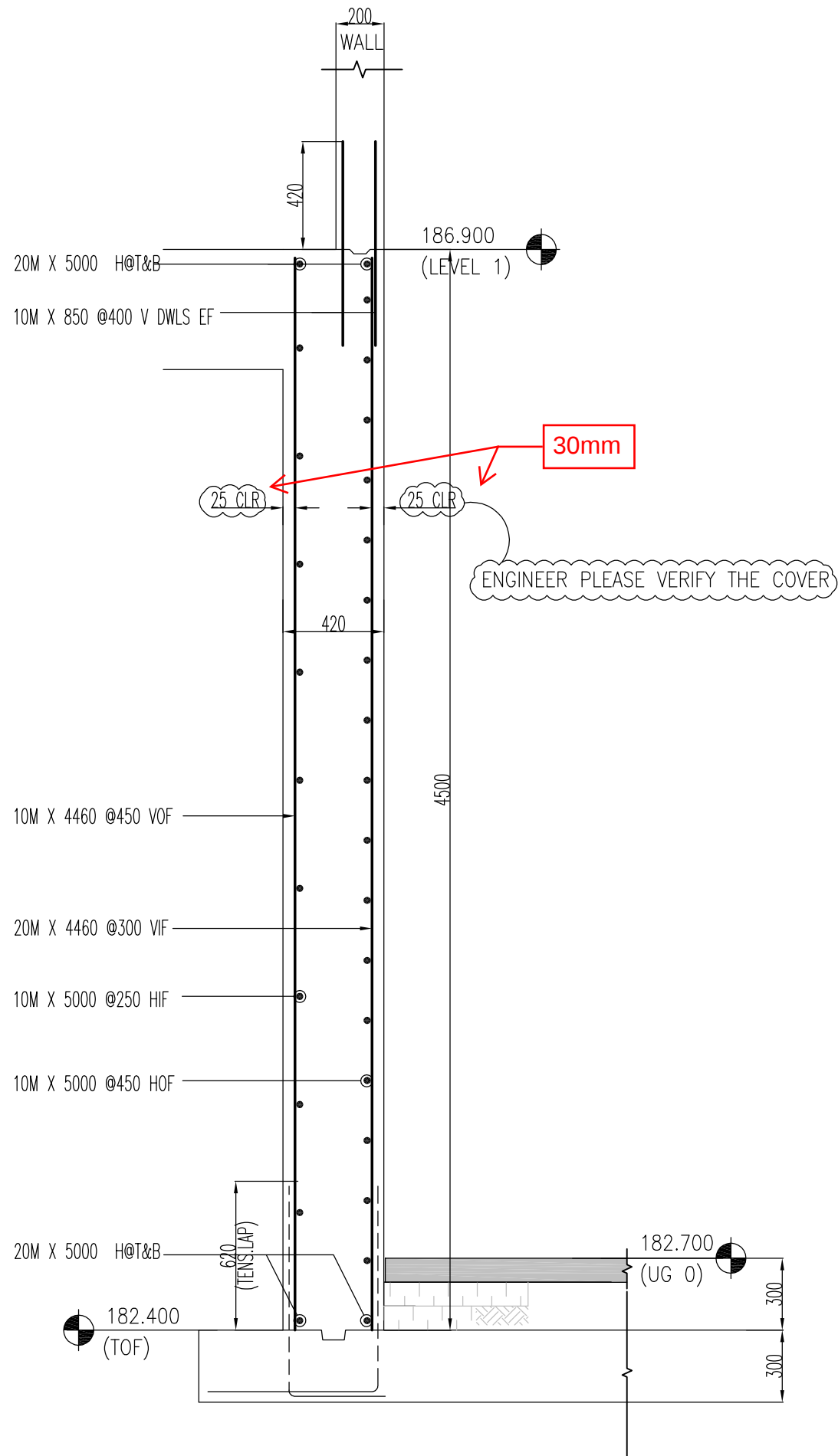
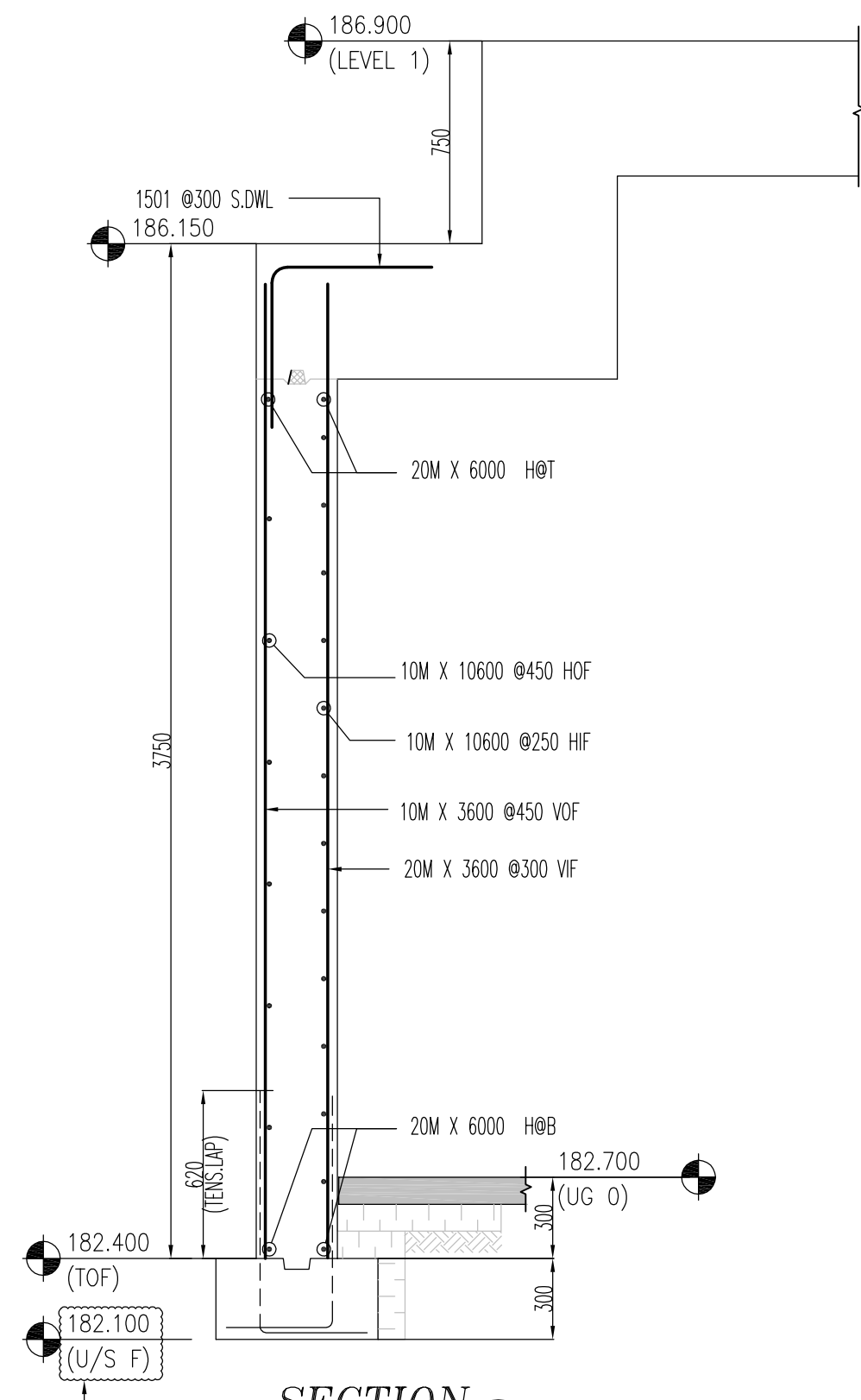




EXTERNAL WALL PLAN
SCALE: 1:100



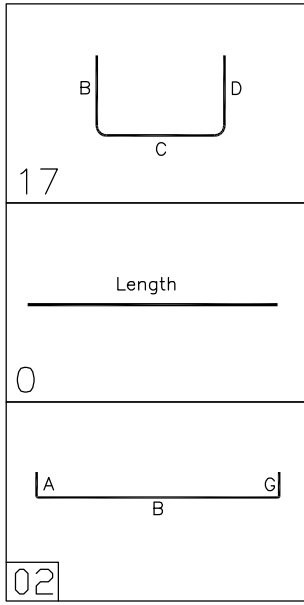
SECTION 2
SCALE: 1:25
REF: 8/S201



SECTION 3
SCALE: 1:25
NOTE 3/S101A INDICATE THE T.O.F. TO BE 300 BELOW SOG (182.40)
BUT U/S FTG EL. SHOWN ON PLAN AS 1130 BELOW SOG (181.57)

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. 19066	
Project No. AE	
By 28 Apr 2021	
Date	
JABLONSKY, AST AND PARTNERS Consulting Engineers 3 Concorde Gate, North York, ON M3C 4H9	

Release Code: R4.2 EXT WALL F-GF P#5BENDING DETAILS.													
Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'
4 20M	1300					1300							
8 20M	6000					6000							
35 10M	3600					3600							
51 20M	3600					3600							
20 10M	10600					10600							
26 10M	5000					5000							
4 20M	5000					5000							
23 20M	4460					4460							
28 10M	4460					4460							
4 20M	3320					3320							
32 10M	3320					3320							
36 10M	850					850							
12 10M	4460					4460							
7 10M	840	17				420	420						
1004	32 10M	1330	17			550	230	550					
1002	26 10M	630	2		180	450							
1005	16 10M	1100	2		180	920							
2002	2 20M	1660	17			830	830						
1501	74 15M	1200	17			600	600						
2003	4 20M	1140	2		310	830							
2004	4 20M	2150	17			950	230	950					



NOTES

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

3. CONCRETE COVER:
TIES

-- 30mm

4. COMPRESSION LAP SPICE

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

5. TENSION LAP SPICE (L.S) & 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

- * 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	FF = FAR FACE	OF = OUTSIDE FACE
AL = ALTERNATE	FS = FORM SAVER	SC = SAW CUT END
BL = BOTTOM	GD = GROUT IN DOWELS	STG = STAGGER
BS = BEND INTO SLAB	H = HORIZONTAL	STR = STIRRUPS
CB = CORNER BAR	IF = INSIDE FACE	T = TOP
CJ = CONTROL JOINT	LL = LOWER LAYER	THR/1 = THREAD 1END
CTS = CUT TO SUIT SITE COND.	MD = MIDDLE	THR/2 = THREAD 2ENDS
DWL = DOWELS	MIN = MINIMUM	UL = UPPER LAYER
EE = EACH END	NF = NEAR FACE	U/N = UNLESS NOTED
EF = EACH FACE	OC = ON CENTER	V = VERTICAL
EJ = EXPANSION JOINT		TT = TEMP. TIES
ES = EACH SIDE		
EW = EACH WAY		

STRAIGHT BARS LABEL FORMAT	BENT BARS LABEL FORMAT	GRADES OF STEEL
7 B15M X 3600	7 B15M B1501	BB = GRADE 400W
QUANTITY	QUANTITY	CC = COATED
LENGTH	BAR MARK	CRS = CRANKED
		SS = STAINLESS
		W = WELDABLE

FOR APPROVAL	APR/21/21	JJ
ISSUE	REMARKS	DATE
		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 EXTERIOR WALLS -FTG-GF P#5	
CUSTOMER : ROYAL PINE HOMES	Project no. 2177 SCALE: AS SHOWN DRAWING No. R4.2
DETAILED BY: JJ CHECKED BY:	BAR LIST No.



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 **15 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 CONFORMS/VERIFIES WILL BE ASSUMED CORRECT AND APPROVED AS IS UNLESS COMMENTED ON THE APPROVAL DRWGS

LEGEND		FF = FARM FACE		OF = OUTSIDE FACE	
AS	ALTERNATE	FS = FORM SAVER	SC = SAW CUT END	SC	STAGGER
BS	BOTTOM	GB = GROUT IN DOWELS	SH = SHUTTLE	STR	STRIPS
CS	CORNER	H = HORIZONTAL	TH = THREAD	TH	THREAD
CS	CONTROL JOINT	IS = INSIDE FACE	UL = UPPER LEVEL	UN	UNLESS NOTED
CS	CORNER BOLT	L = LOWER LEVEL	U/L	UPPER LEVEL	U/L
DWL	DOWEL	M = MIDDLE	W	WELD	W
EW	EACH END	MIN = MINIMUM	TEMP	TEMP. TIMES	TEMP
EF	EACH FACE	NF = NEAR FACE			
EJ	EXPANSION JOINT	OC = ON CENTER			
ES	EACH SIDE				
EW	EACH WAY				

STRAIGHT BARS LABEL FORMAT		BENT BARS LABEL FORMAT		GRADES OF STEEL	

NO.	REVISION	DATE	BY
1	REV PER FINAL ELEVATION DWGS & ADDED ZONE BARS	JUN/09/21	JU
2	REV PER COMM. -FOR FAB.	MAY/10/21	JU
3	FOR APPROVAL	APR/21/21	JU

ISSUE	REMARKS	DATE	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	MANSTEEL  REBAR
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PROJECT		
FORESTSIDE TOWNHOUSES -BRAMPTON, ON		
PART OF STRUCTURE		
SHEAR WALLS -FTG-GF P#6,7		
CUSTOMER :		Project no. 2177
ROYAL PINE HOMES		SCALE: AS SHOWN
		DRAWING No.
DETAILED BY: JU	BAR LIST No.	R5.1
CHECKED BY:		2

NOTES

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

- 3, CONCRETE COVER:
TIES

-- 30mm

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

- #### 4. COMPRESSION LAP SPLICE

- 5, TENSION LAP SPLICE (L.S) & DEVELOPMENT LENGTH (L_d)
(FOR WALL OR COL & L_d IN CAP OR FTG.)

BAR SIZE	fc=25		fc=30		fc=35	
	L.S	L.d	L.S	L.d	L.S	L.d
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20M	980	750	890	690	830	640
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30M	1830	1410	1670	1290	1550	1190
35M	2130	1640	1950	1500	1800	1390

SHEAR WALLS -FTG-GF P#6,7		
CUSTOMER :		Project no. 2177
ROYAL PINE HOMES		SCALE: AS SHOWN
DRAWING No. R5.1	BAR LIST No. 2	
PREPARED BY: JJ CHECKED BY:		