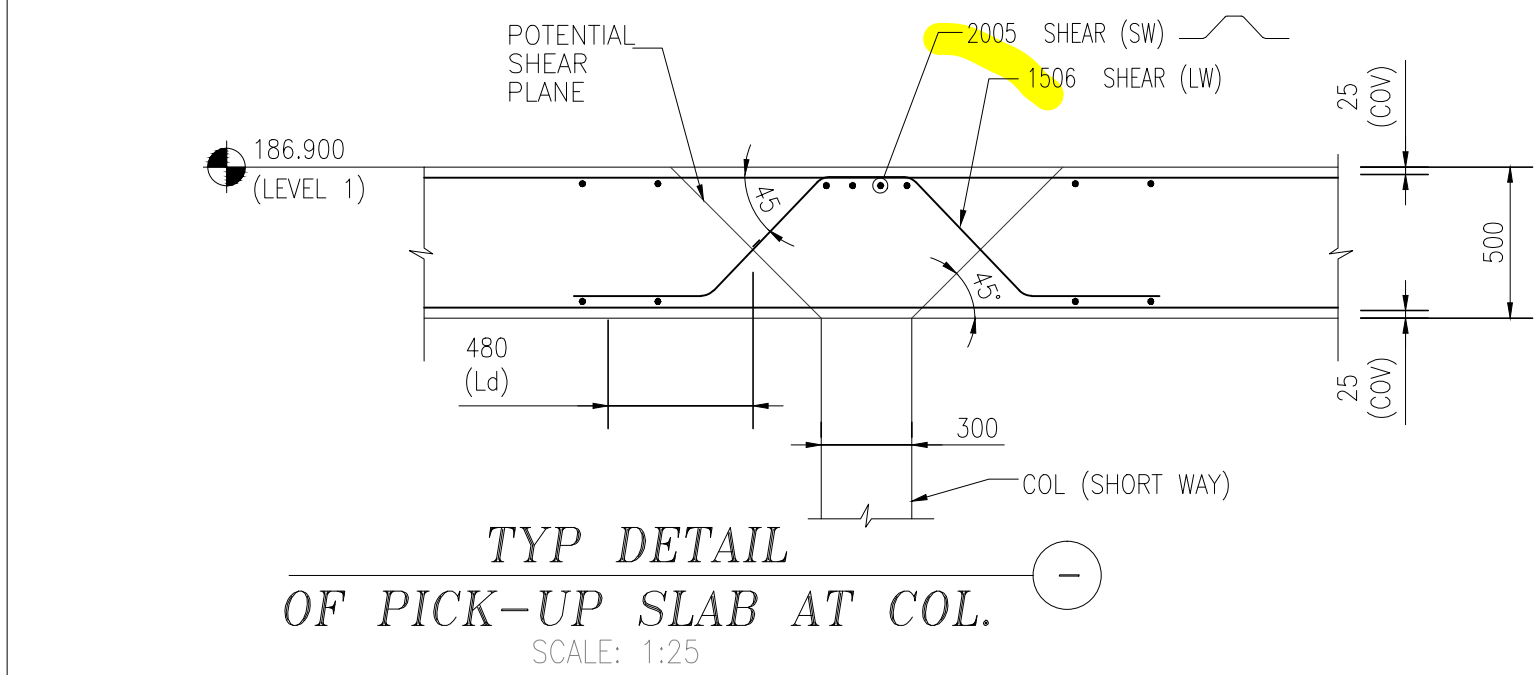
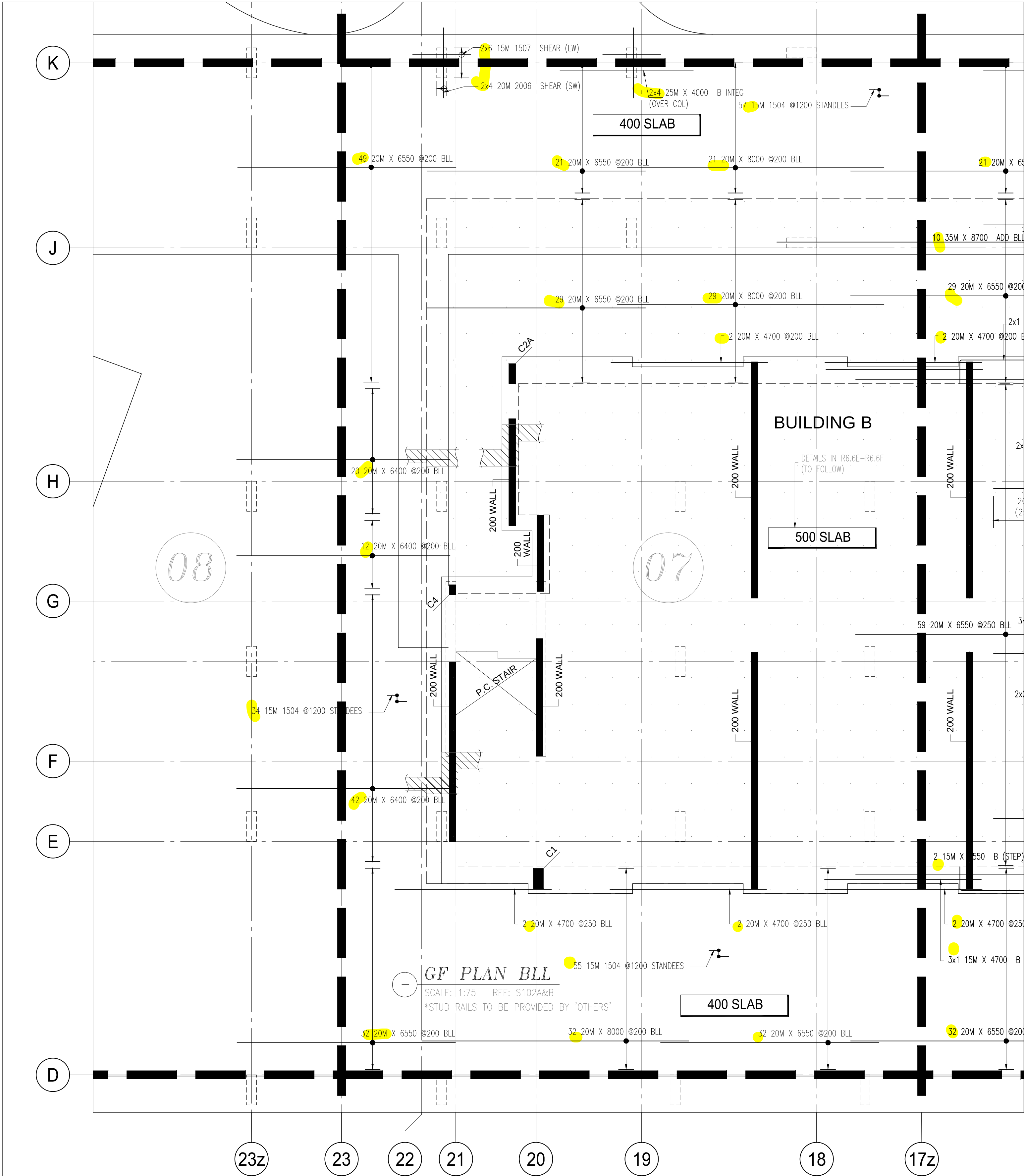
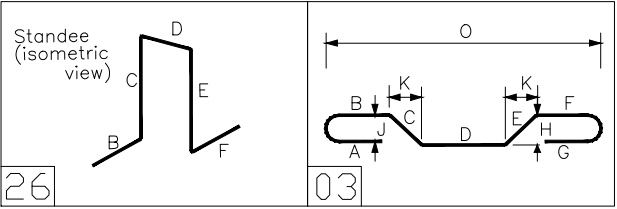




Release Code: R6.6A GF BLL(1) P#7				BENDING DETAILS.											
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'I'	'J'	'K'
163	20M	6550	6550			6550									
82	20M	8000	8000			8000									
6	20M	4700	4700			4700									
74	20M	6400	6400			6400									
8	25M	4000	4000			4000									
154	145	15M	1300	26		300	250	200	250	300					
1507	12	15M	2020	3		450	410	300	410	450		310		270	1740
2006	8	20M	2360	3		650	380	300	380	650		290		250	2100



DRAWING REVIEW

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✓	No comment	See comment
	Amend & Resubmit	Rejected See Remarks

Submission No. _____
Project No. **19066**
By **MB**
Date **17 Aug 2021**

JABLONSKY, AST AND PARTNERS
Consulting Engineers
1129 Leslie Street Don Mills, Ont. M3C 2K5

- 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 DRGWS

LEGEND			STRAIGHT BARS LABEL FORMAT			BENT BARS LABEL FORMAT			GRADES OF STEEL		
ALT = ALTERNATE	FF = FAR FACE	OF = OUTSIDE FACE	7	B15M	X 3600	7	B15M	B1501	B = GRADE	300 = 300	
BOT = BOTTOM	FS = FORM SAVER	SC = SAW CUT END	GRADE		LENGTH	SIZE		MARK	P = EPOXY COATED		
BIS = BEND INTO SLAB	GID = GROUT IN DOWELS	STG = STAGGER	QUANTITY						S = GALVANIZED		
CB = CORNER BAR	H = HORIZONTAL	STR = STIRRUPS							W = WELDABLE		
CIS = CONTROL JOINT	IF = INSIDE FACE	T = TOP									
CJS = CUT TO SUIT SITE COND.	LL = LOWER LAYER	THR/2 = THREAD LENG									
DWL = DOWELS	MD = MIDDLE	THR/2 = THREAD LENG									
EE = EACH END	MIN = MINIMUM	UL = UPPER LAYER									
EF = EACH FACE	NF = NEAR FACE	V = VERTICAL									
EJ = EXPANSION JOINT	OC = ON CENTER	TT = TEMP. TIES									
ES = EACH SIDE											
EW = EACH WAY											

FOR APPROVAL	AUG/16//21	JU
ISSUE	REMARKS	DATE
		BY

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

PROJECT	FORESTSIDE TOWNHOUSES -BRAMPTON, ON
PART OF STRUCTURE	G.F. SLAB BLL P#7 [400 SLAB]
CUSTOMER :	ROYAL PINE HOMES
DETAILED BY: JU	BAR LIST No.
CHECKED BY:	

Project no. 2177

SCALE: AS SHOWN

DRAWING No.

R6.6A

NOTES

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

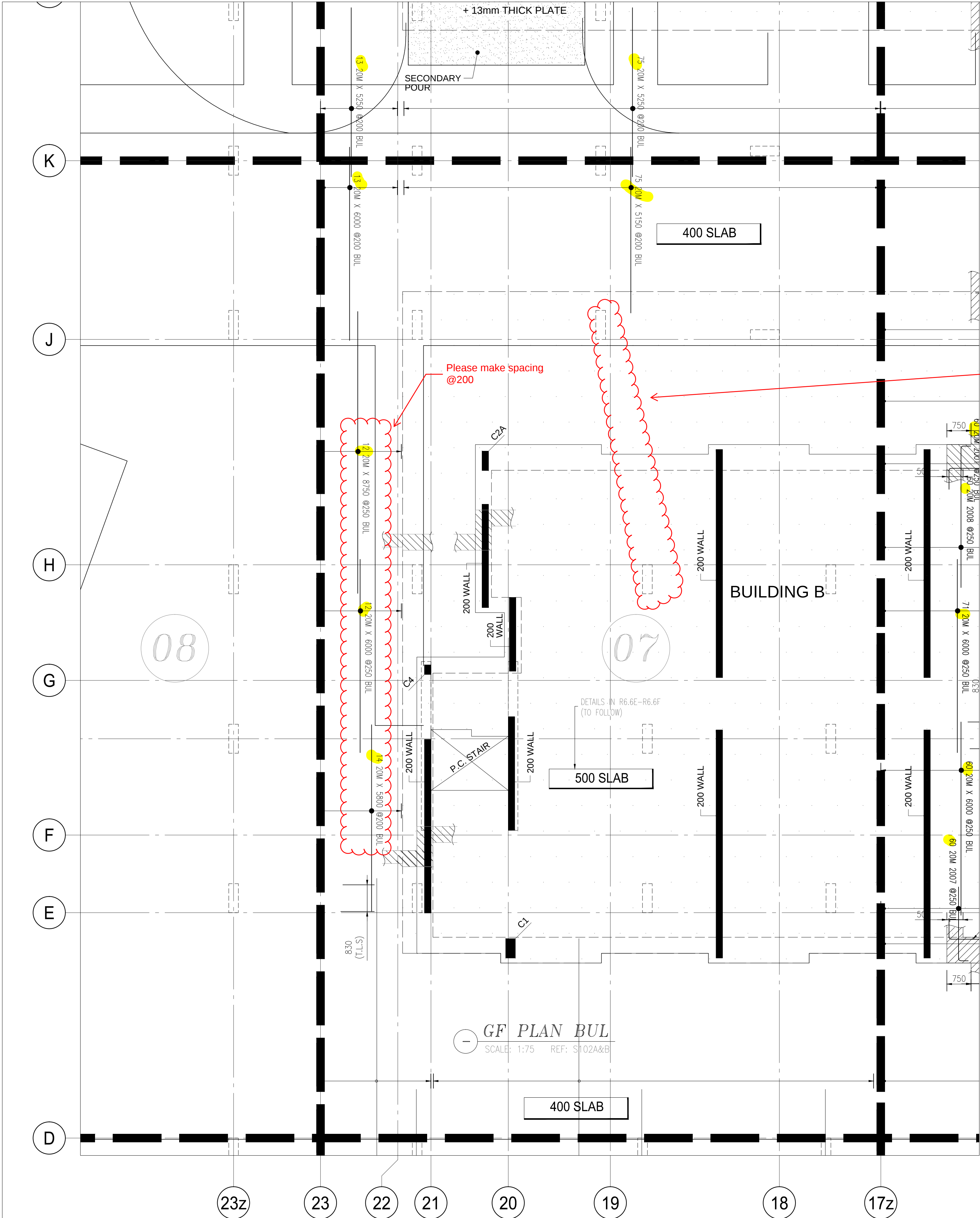
- CONCRETE COVER:
SLAB T --- 25mm
SLAB B --- 25mm

4. COMPRESSION LAP SPLICE

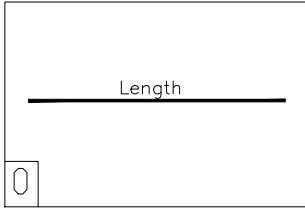
BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

5. TENSION LAP SPLICE (L.S) & DEVELOPMENT LENGTH (Ld)

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



Release Code: R6.6B GF BUL(1) P#7 BENDING DETAILS.											
Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'
	12	20M	8750			8750					
	14	20M	5800			5800					
	25	20M	6000			6000					
	75	20M	5150			5150					
	88	20M	5250			5250					



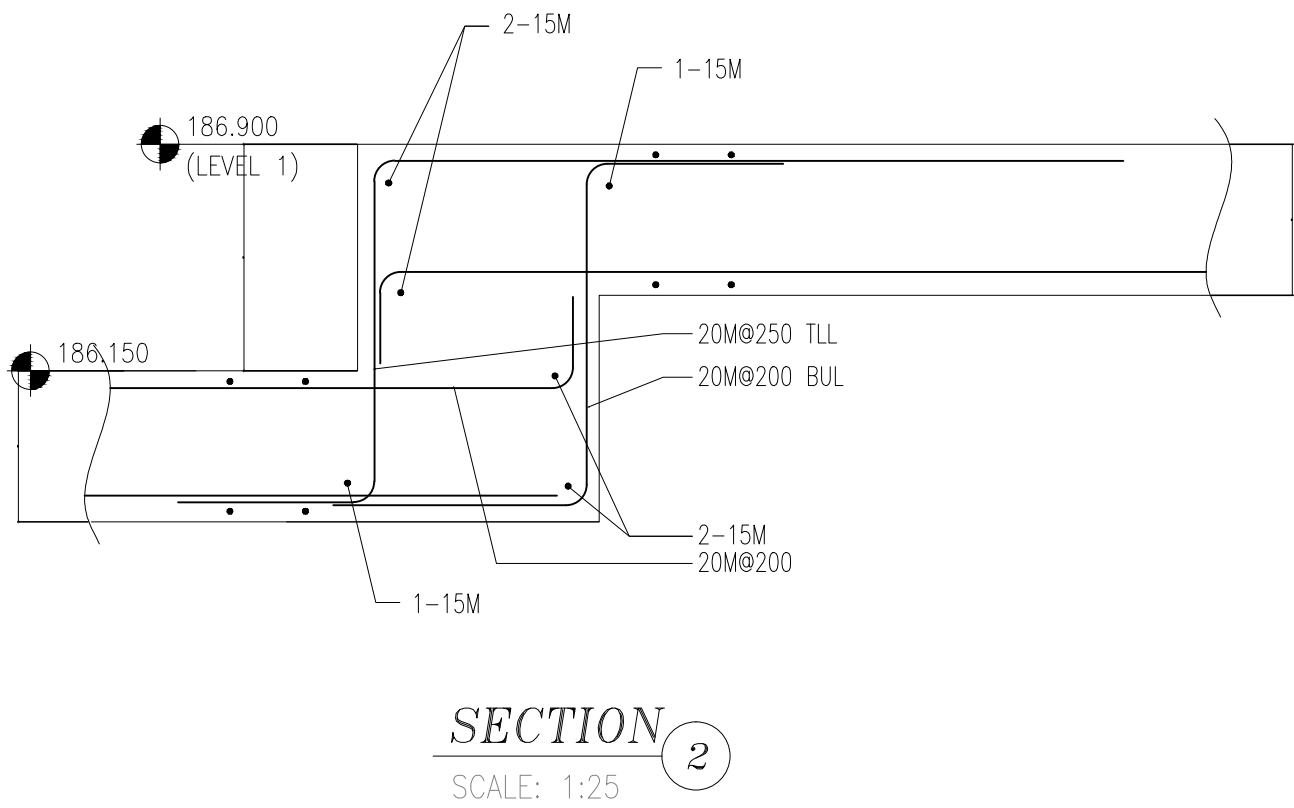
DRAWING REVIEW

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No comment	☒	See comment
Amend & Resubmit	☐	Rejected See Remarks

Submission No. _____
Project No. **19066**
By **MB**
Date **17 Aug 2021**

JABLONSKY, AST AND PARTNERS
Consulting Engineers
1129 Leslie Street Don Mills, Ont. M3C 2K5



NOTES		4. COMPRESSION LAP SPLICE		5. TENSION LAP SPLICE (L.S) & DEVELOPMENT LENGTH (Ld)	
1. ALL STEEL TO BE GRADE 400W					
2. STRENGTH OF CONCRETE					
35MPa - SLAB					
35MPa - INTERIOR COLUMNS & WALLS					
3. CONCRETE COVER:					
SLAB T	-- 25mm				
SLAB B	-- 25mm				
		BAR SIZE	STANDARD LAP (mm)	BAR SIZE	
		10M	300	L.S	L.d
		15M	440	L.S	L.d
		20M	590	L.S	L.d
		25M	730	L.S	L.d
		30M	880	L.S	L.d
		35M	1030	L.S	L.d

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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	GID = GROUT IN DOWELS	STG = STAGGER
CB = CORNER BAR	H = HORIZONTAL	STR = STIRRUPS
CS = CONTROL JOINT	IF = INSIDE FACE	T = TOP
CS = CUT TO SUIT SITE COND.	LL = LOWER LAYER	THR/1 = THREAD LENG
DWL = DOWELS	MD = MIDDLE	THR/2 = THREAD ZENOS
EE = EACH END	MIN = MINIMUM	UL = UPPER LAYER
EF = EACH FACE	NF = NEAR FACE	V = VERTICAL
EJ = EXPANSION JOINT	OC = ON CENTER	TT = TEMP. TIES
ES = EACH SIDE		
EW = EACH WAY		

STRAIGHT BARS LABEL FORMAT

7 B15M X 3600

GRADE QUANTITY LENGTH

BENT BARS LABEL FORMAT

7 B15M B1501

GRADE QUANTITY LENGTH BAR MARK

GRADES OF STEEL

B = GRADE 400W	CS = CRACK CONTROL
F = FIBER	CR = CRACK CONTROL
S = STAINLESS	CR = CRACK CONTROL
W = WELDABLE	

FOR APPROVAL	AUG/16/21	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

PROJECT

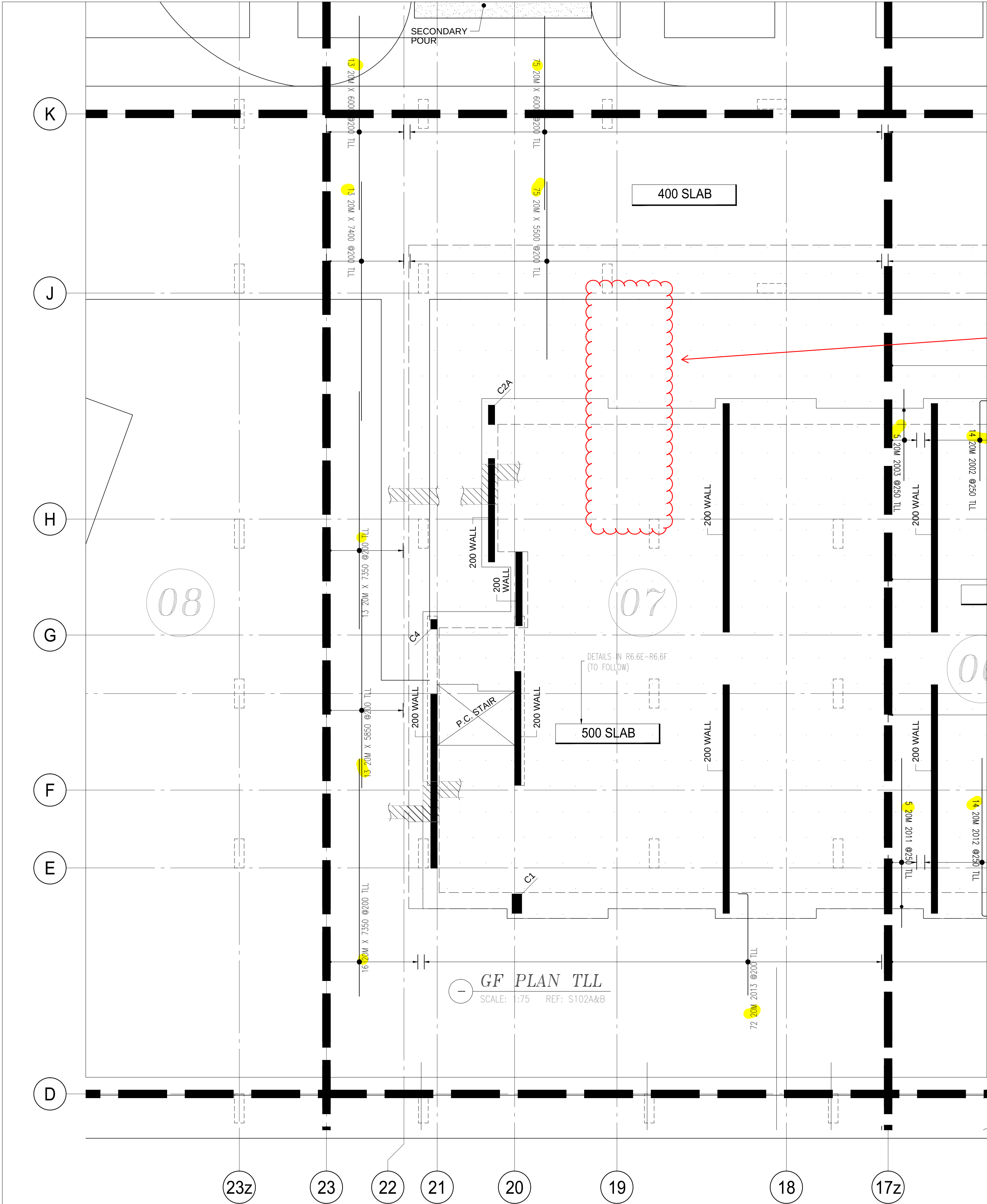
FORESTSIDE TOWNHOUSES

-BRAMPTON, ON

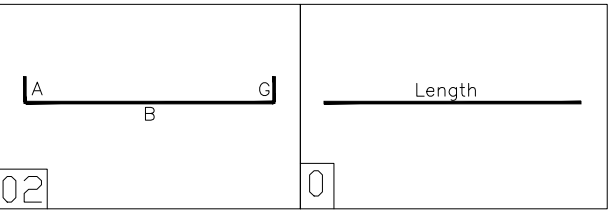
PART OF STRUCTURE

G.F SLAB BUL P#7 [400 SLAB]

CUSTOMER :	Project no. 2177
ROYAL PINE HOMES	SCALE: AS SHOWN
DETAILED BY: JU	DRAWING No.
CHECKED BY:	R6.6B



Release Code: R6.6D GF TLL(1) P#7										BENDING DETAILS.									
Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'	J'	K'	L'	M'	N'	O'
	13	20M	7400			7400													
	88	20M	6000			6000													
	28	20M	7350			7350													
	13	20M	5850			5850													
	75	20M	5500			5500													
2013	72	20M	3460	2		310	3150												



DRAWING REVIEW
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No comment	☒ See comment
Amend & Resubmit	Rejected See Remarks

Submission No. 19066
Project No. 19066
By MB
Date 17 Aug 2021
JABLONSKY, AST AND PARTNERS
Consulting Engineers
1129 Leslie Street Don Mills, Ont. M3C 2K5

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

STRAIGHT BARS LABEL FORMAT
7 B15M X 3600
GRADE QUANTITY LENGTH

BENT BARS LABEL FORMAT
7 B15M B1501
GRADE QUANTITY LENGTH

GRADES OF STEEL
B = GRADE 400W
C = GRADE 500W
F = GRADE 600W
S = GRADE 700W
W = GRADE 800W

NOTES

- ALL STEEL TO BE GRADE 400W
- STRENGTH OF CONCRETE
35MPa - SLAB
35MPa - INTERIOR COLUMNS & WALLS
- CONCRETE COVER:
SLAB T
SLAB B

-- 25mm
-- 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 (L.S) & DEVELOPMENT LENGTH (Ld)

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
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FORESTSIDE TOWNHOUSES
-BRAMPTON, ON

PROJECT
PART OF STRUCTURE
G.F SLAB TLL P#7 [400 SLAB]

CUSTOMER :
ROYAL PINE HOMES

Project no. 2177
SCALE AS SHOWN
DRAWING No.
R6.6D