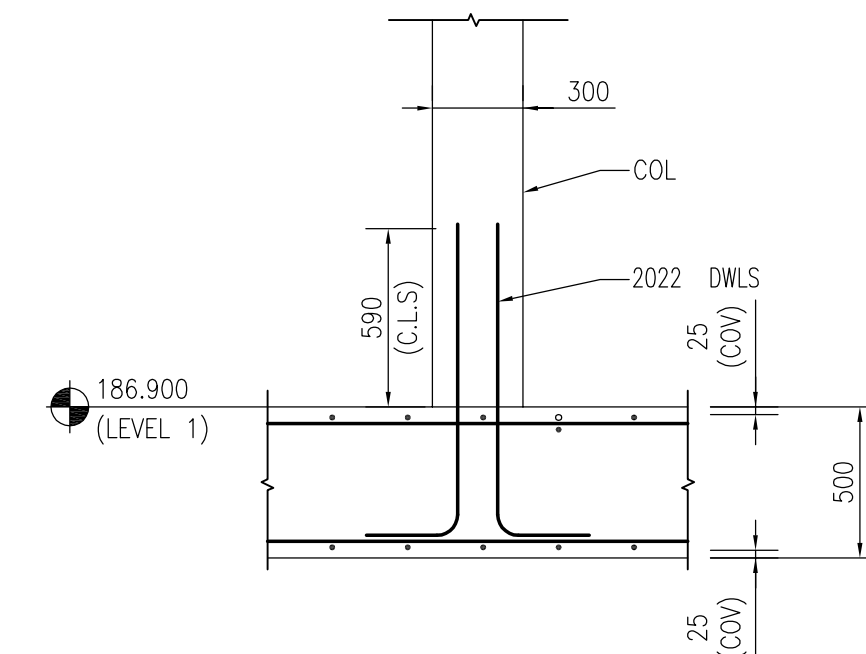
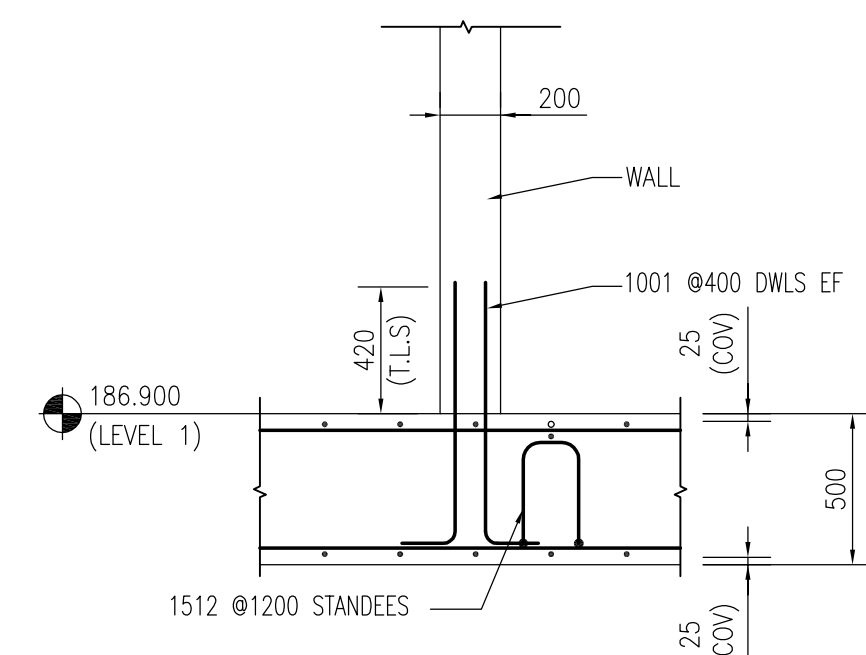


Release Code: R6.0A G-BLL P#1					BENDING DETAILS												
Bar Mark	Qty	Size	Total length	type	'a'	'b'	'c'	'd'	'e'	'f'	'g'	'h'	'j'	'k'	'o'	'r'	
	43	20M	6100				6100										
	54	20M	8450				8450										
	220	20M	6550				6550										
	56	20M	9550				9550										
	23	20M	8250				8250										
	36	20M	7500				7500										
	7	20M	3300				3300										
	5	20M	7320				7320										
	10	20M	10050				10050										
	16	20M	4700				4700										
	2	20M	3250				3250										
	8	15M	4700				4700										
	1	15M	8450				8450										
	8	15M	6550				6550										
	1	15M	9550				9550										
	2	15M	7500				7500										
	4	20M	3100				3100										
	2	15M	3100				3100										
1001	276	10M	1050	2		180		870									
1512	391	15M	1500	26			300	350	200	350	300						
1511	115	15M	1400	26			300	250	200	350	300						
1002	11	10M	850	17			600	450	600								
1003	11	10M	850	17			700	350	500								
1505	2	15M	3510	2		260	3250										
1508	19	15M	3400	17			2680	720									
1506	1	15M	6380	2		260	6120										
1507	20	15M	1820	17			1800	720									
1509	2	15M	8500	2		260	8240										
1513	72	15M	2300	3			450	550	300	550	450		410		310	1940	
2023	48	20M	2540	3			600	520	300	520	600		390		350	2280	
1514	18	15M	2020	3			450	410	300	410	450		310		270	1740	
2024	12	20M	2360	3			650	380	300	380	650		290		250	2100	
2022	12	20M	1950	2		310	1040										
1515	2	15M	2250	17			1500	750									
1510	1	15M	4160	17			3440	720									

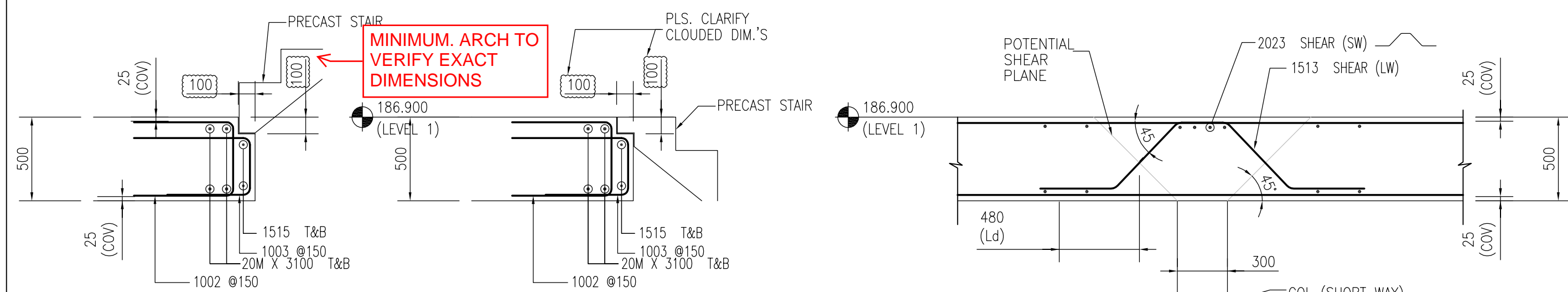
DRAWING REVIEW		
<p>This review of this drawing does not in any way relieve the contractor of responsibility for its accuracy or for compliance with the contract documents.</p>		
No comment	<input checked="" type="checkbox"/>	See comment
Amend & Resubmit	<input type="checkbox"/>	Rejected See Remarks
<p>Submission No. _____</p> <p>Project No. 19066</p> <p>By AF</p> <p>Date 25 May 2021</p>		
<p>JABLONSKY, AST AND PARTNERS Consulting Engineers 100 Concorde Drive, North York, ON M3C 4H9</p>		



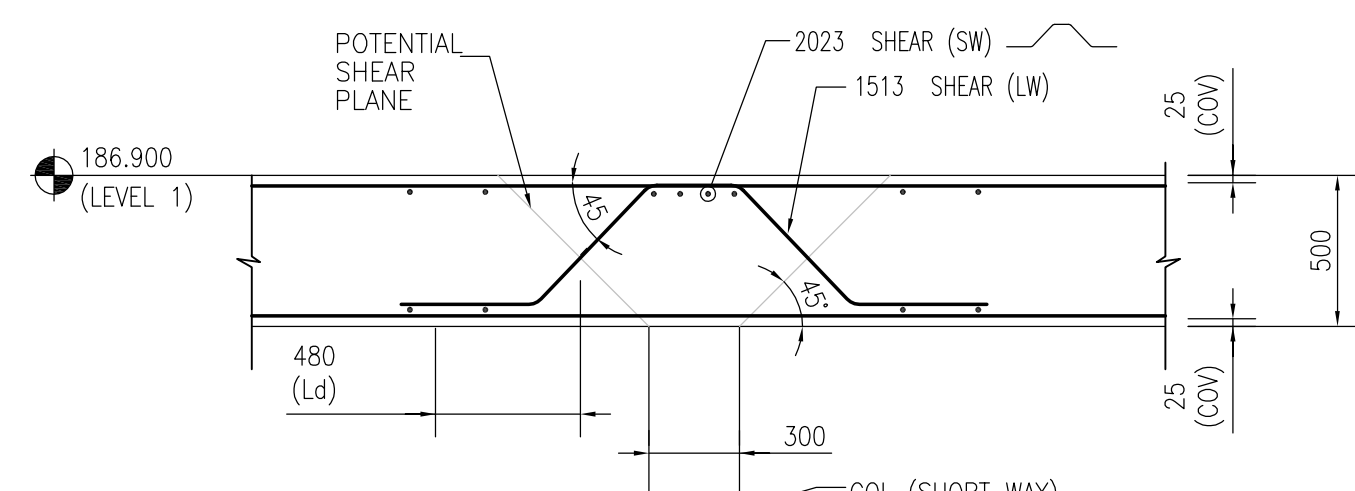
SECTION 1A
SCALE: 1:25



SECTION 1
SCALE: 1:25



TYP DETAIL
EDGE OF SLAB AT STAIR
SCALE: 1:25



TYP DETAIL
OF PICK-UP SLAB AT COL.
SCALE: 1:25

- NOTES**
- 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 |

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

* 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 IN DOWELS	STG = STAGGER
CB =	CORNER BAR	H = HORIZONTAL	STR = STIRRUPS
CJ =	CONTROL JOINT	IF = INSIDE FACE	TH1 = TOP
CWS =	CUT TO SUIT SITE COND.	LL = LOWER LAYER	TH2 = TOP 2 INDS
DWL =	DOWELS	MID = MIDDLE	TH2/1 = TOP 2 ENDS
EE =	EACH END	MIN = MINIMUM	u/L = UPPER LAYER
EF =	EACH FACE	NC = NEAR FACE	u/N = UNLESS NOTED
EJ =	EXPANSION JOINT	OC = ON CENTER	V = VERTICAL
ES =	EACH SIDE		TY = TEMP. TIES
EW =	EACH WAY		

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

△			
△			
△			
△			

0	FOR APPROVAL	MAY/18/21	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

G.F SLAB BLL P#1

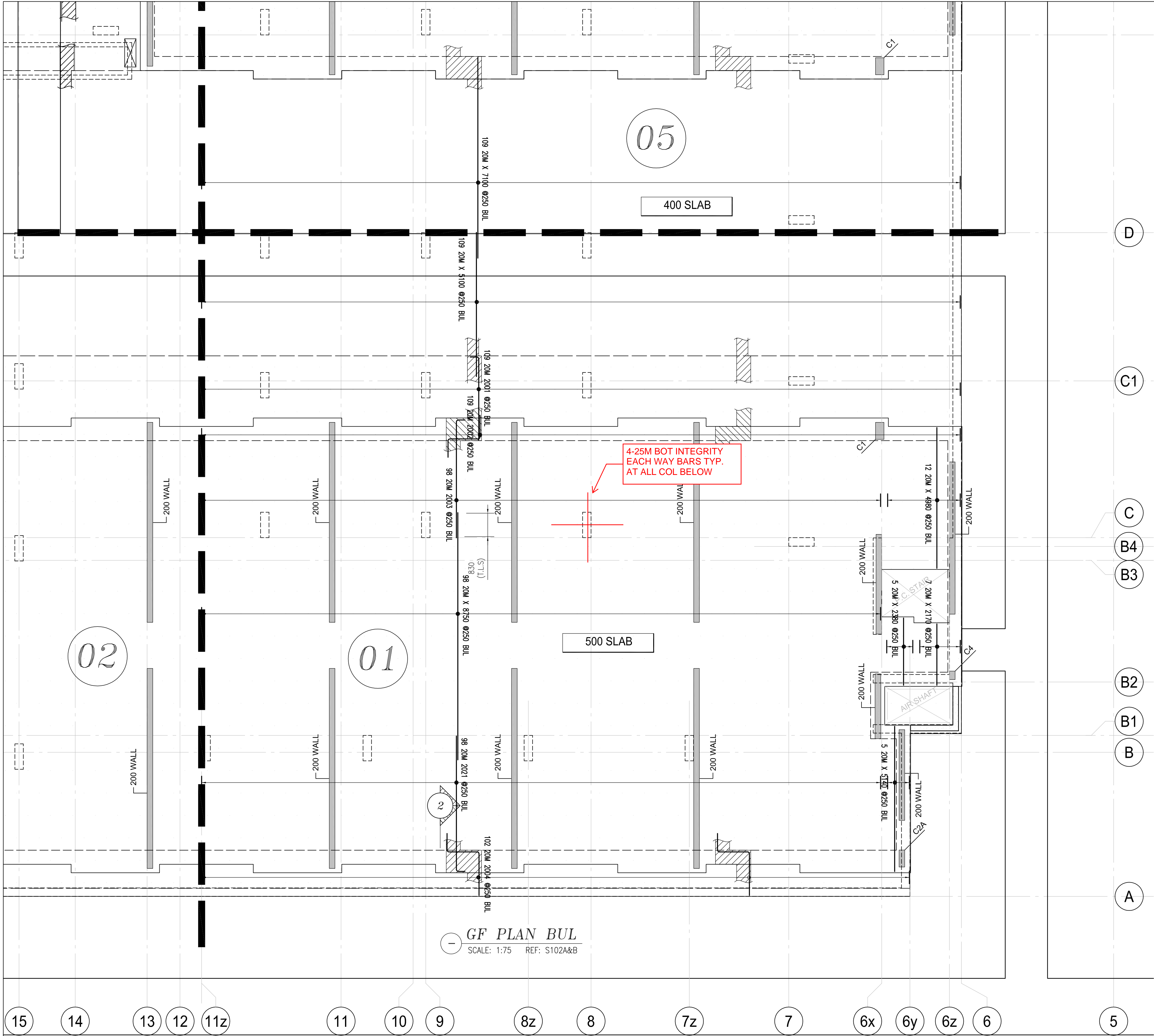
CUSTOMER :	Project no. 2177
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ROYAL PINE HOMES	SCALE: AS SHOWN
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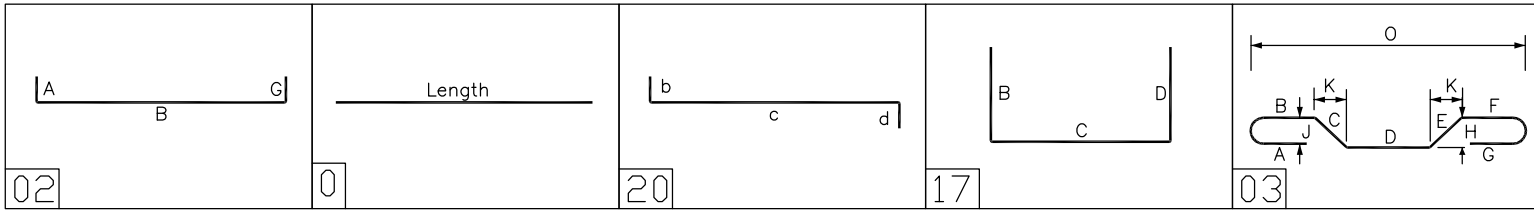
	DRAWING No.
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DETAILED BY: JU	BAR LIST No.	P6 0A
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CHECKED BY:		KU.0A
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Release Code: R6.0B GF BUL P#1										BENDING DETAILS.									
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'P'			
	5	20M	5140																
	98	20M	8750																
	7	20M	2170																
	5	20M	2380																
	12	20M	4980																
	109	20M	5100																
	109	20M	7100																
2021	98	20M	5110	2		310													
2004	102	20M	3360	20			660	1150	1550										
2003	98	20M	4490	2		310													
2001	109	20M	3250	2		310	2940												
2002	109	20M	2660	20			660	1150	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

Amend & Resubmit

See comment

Rejected See Remarks

Submission No.

Project No.

By

Date

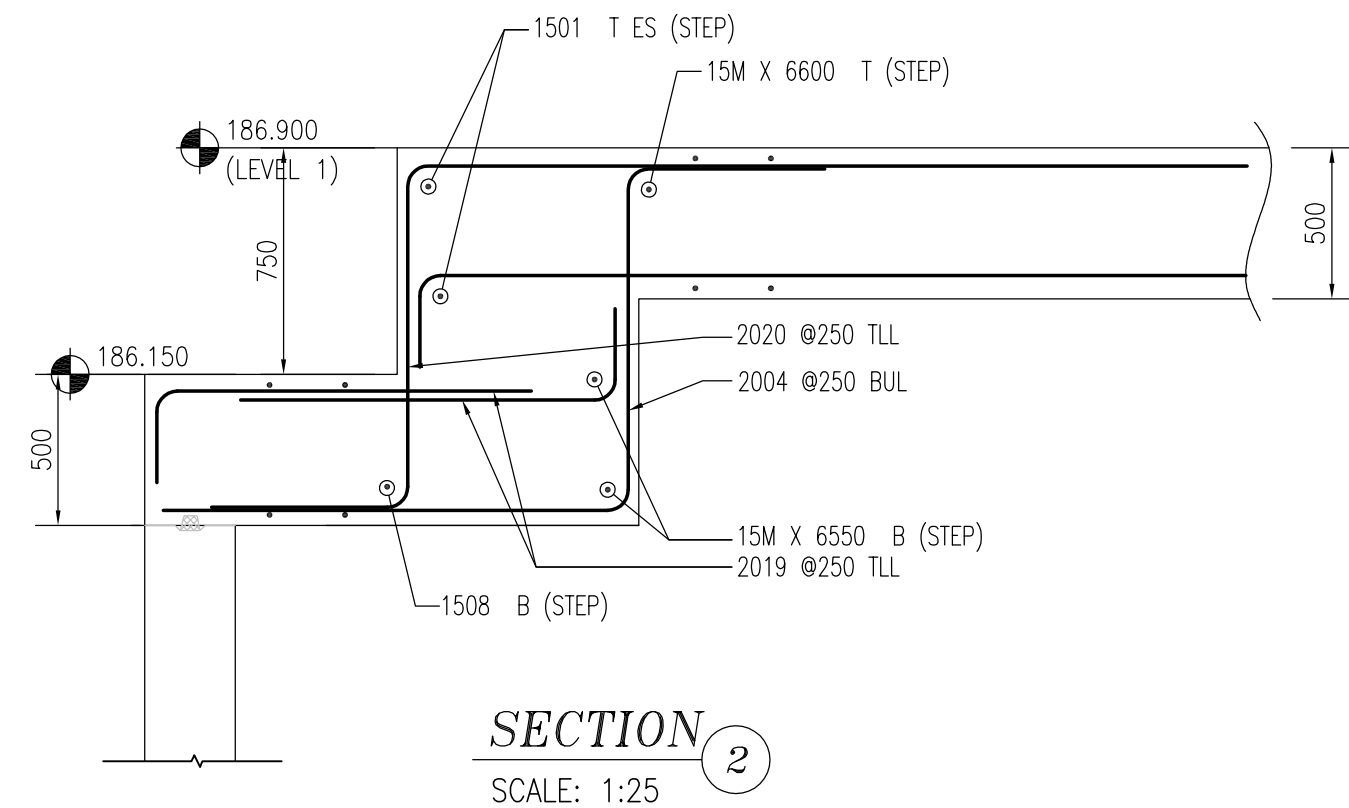
19066

25 May 2021

JABLONSKY, AST AND PARTNERS

Consulting Engineers

3 Concorde Gate, North York, ON M3C 4H9



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
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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LEGEND

ALT = ALTERNATE
BOT = BOTTOM
BIS = BEND INTO SLAB
CB = CORNER BAR
CJ = CONTROL JOINT
CJS = 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
SWM CUT END
STG = STAGGER
STR = STRIPS
T = TOP
THR/1 = THREAD LENG
THR/2 = THREAD ZENOS
UL = UPPER LAYER
UNLESS NOTED
V = VERTICAL
TT = TAMP TIES

STRAIGHT BARS LABEL FORMAT

BENT BARS LABEL FORMAT

GRADES OF STEEL

7 B15M X 3600

7 B15M B1501

7 B15M B1501

QUANTITY

QUANTITY

QUANTITY

GRADE

GRADE

GRADE

LENGTH

LENGTH

LENGTH

SIZE

SIZE

SIZE

WELDABLE

WELDABLE

WELDABLE

FOR APPROVAL

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

PART OF STRUCTURE

G.F SLAB BUL P#1

CUSTOMER :

ROYAL PINE HOMES

DETAILED BY:

CHECKED BY:

Project no.

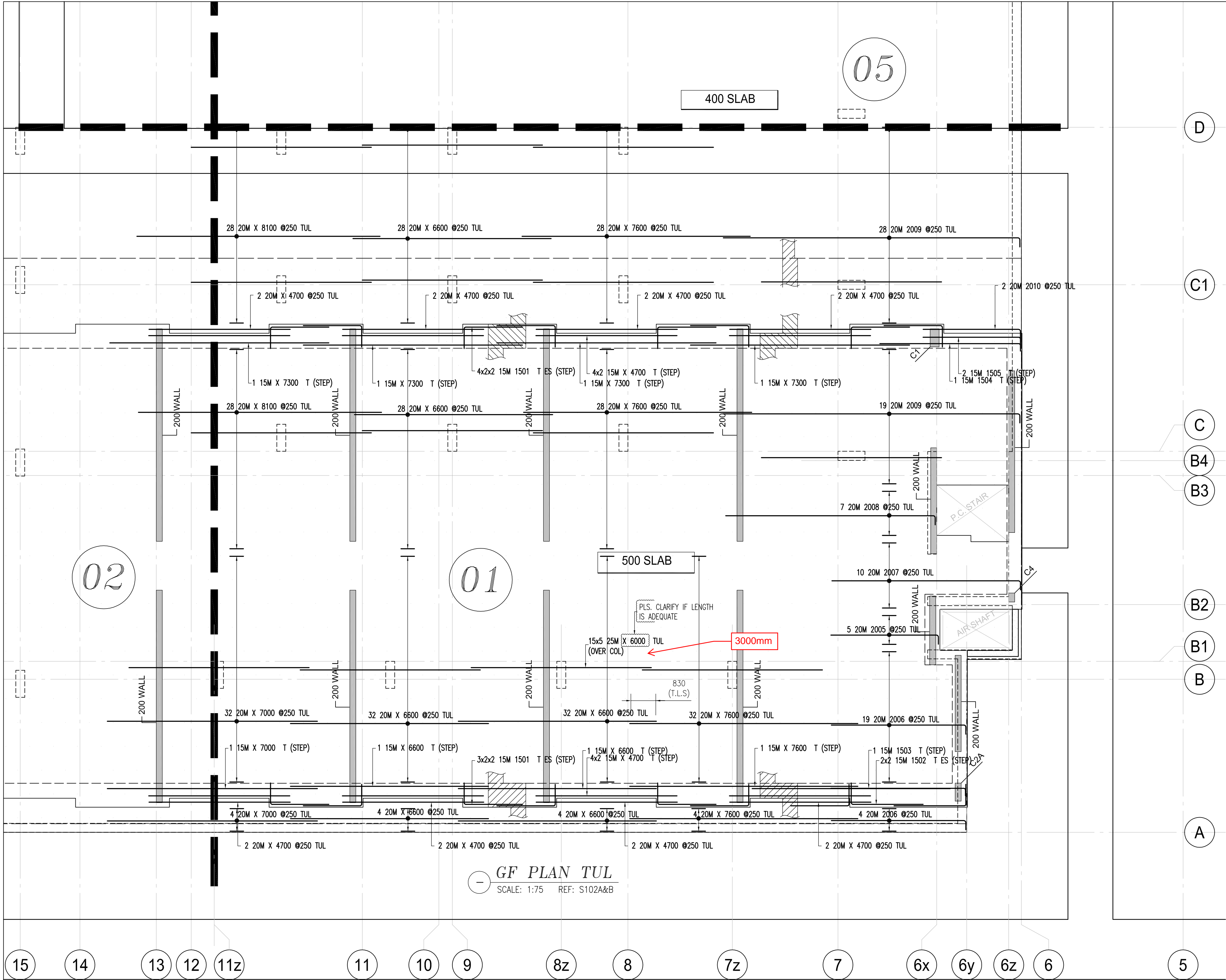
SCALE

DRAWING No.

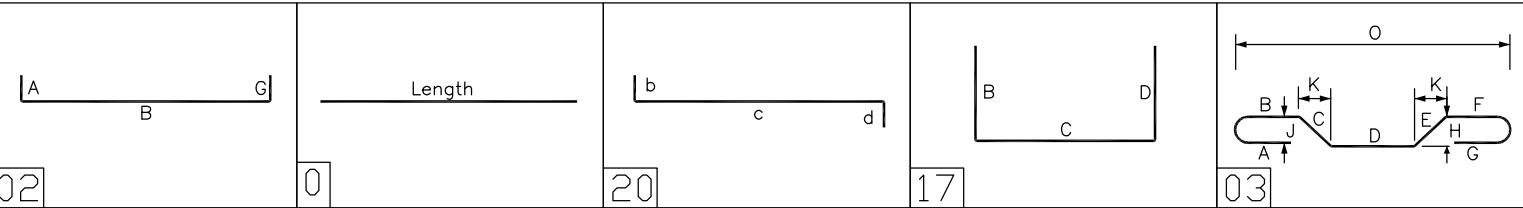
2177

AS SHOWN

R6.0B



Release Code: R6.0C GF TUL P#1				BENDING DETAILS.												
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
4 15M	7300					7300										
92 20M	7600					7600										
128 20M	6600					6600										
56 20M	8000					8000										
36 20M	7000					7000										
16 20M	4700					4700										
75 25M	6000					6000										
1 15M	7600					7600										
2 15M	6600					6600										
1 15M	7000					7000										
16 15M	4700					4700										
1504	1 15M	4950	2		260	4690										
2009	47 20M	10200	2		310	9890										
2006	23 20M	4800	2		310	4490										
2005	5 20M	3900	2		310	3590										
2007	10 20M	6600	2		310	6290										
2008	7 20M	7300	2		310	6990										
1501	28 15M	2610	17		1950	720										
1502	4 15M	3100	17		2400	720										
1505	2 15M	3510	2		260	3250										
1503	1 15M	4750	2		260	4490										
2010	2 20M	3560	2		310	3250										



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 25 May 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 DRWG

LEGEND		
ALT = ALTERNATE	FF = FAR FACE	OF = OUTSIDE FACE
BOT = BOTTOM	FS = FORM SAYER	SC = SAW CUT END
BIS = BEND INTO SLAB	GID = GROUT IN DOWELS	STG = STAGGER
CB = CORNER BAR	H = HORIZONTAL	STR = STRIPS
CJ = CONTROL JOINT	IF = INSIDE FACE	T = TOP
CS = CUT TO SUIT SITE COND.	LL = LOWER LAYER	THR/1 = THREAD LENG
DWL = DOWELS	LL = LOWER LAYER	THR/2 = THREAD LENG
EE = EACH END	MID = MIDDLE	UL = UPPER LAYER
EF = EACH FACE	MIN = MINIMUM	UL = UPPER LAYER
EJ = EXPANSION JOINT	NF = NEAR FACE	UNLESS NOTED
ES = EACH SIDE	OC = ON CENTER	V = VERTICAL
EW = EACH WAY	TT = TIE	TT = TIE

STRAIGHT BARS LABEL FORMAT	BENT BARS LABEL FORMAT	GRADES OF STEEL
7 B15M X 3600 GRADE QUANTITY	7 B15M B1501 SIZE L-BAR MARK QUANTITY	B = GRADE 400W C = GRADE 500W S = STAINLESS W = WELDABLE

△		
△		
△		
△		

0	FOR APPROVAL	MAY/18/21	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
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PROJECT
FORESTSIDE TOWNHOUSES
-BRAMPTON, ON

PART OF STRUCTURE
G.F. SLAB TUL P#1

CUSTOMER :
ROYAL PINE HOMES

DETAILED BY: JU
CHECKED BY:

Project no. 2177
SCALE: AS SHOWN

DRAWING No.
R6.0C

NOTES

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

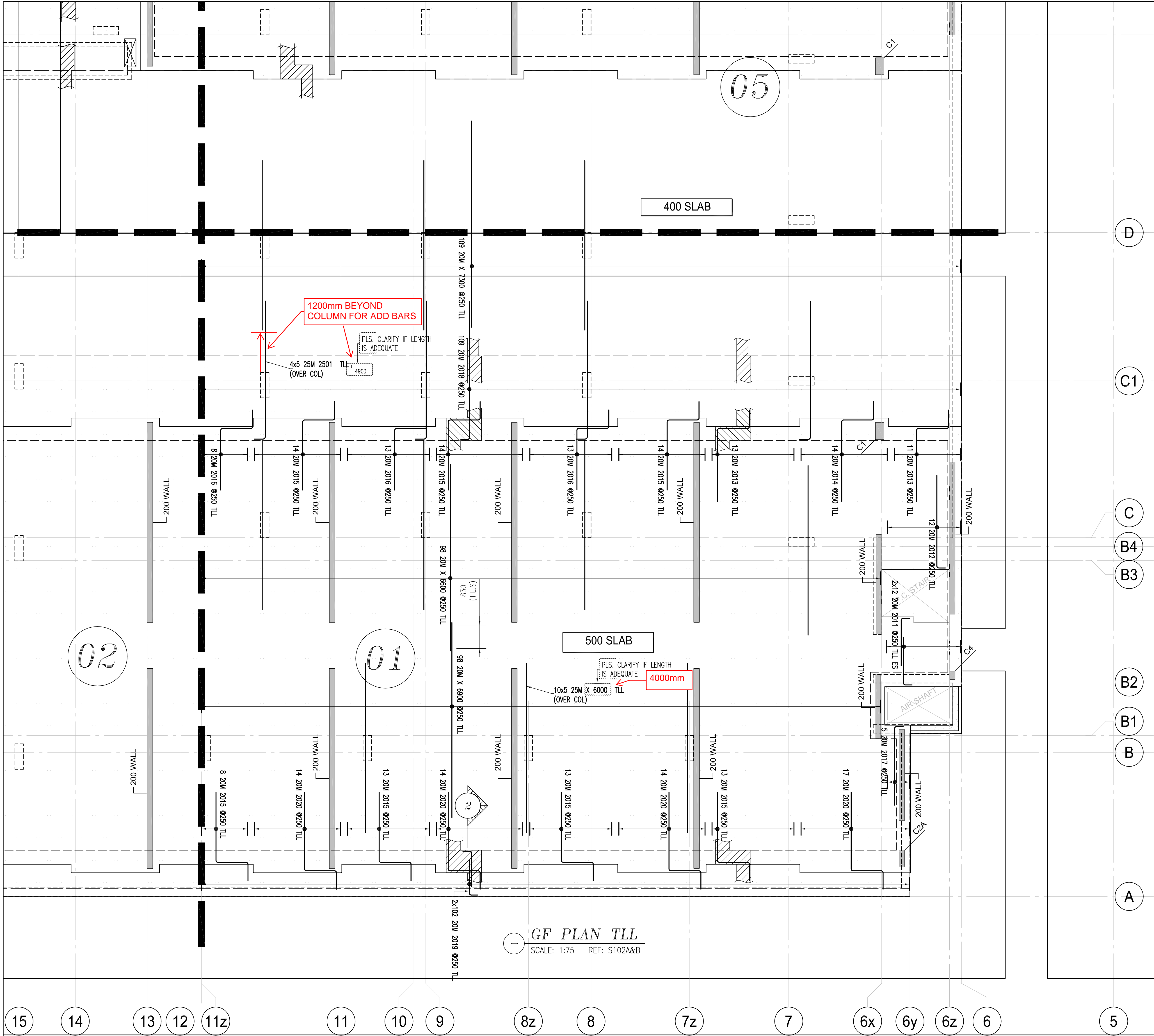
- CONCRETE COVER:
SLAB T --- 25mm
SLAB B --- 25mm

4. COMPRESSION LAP SPLICE

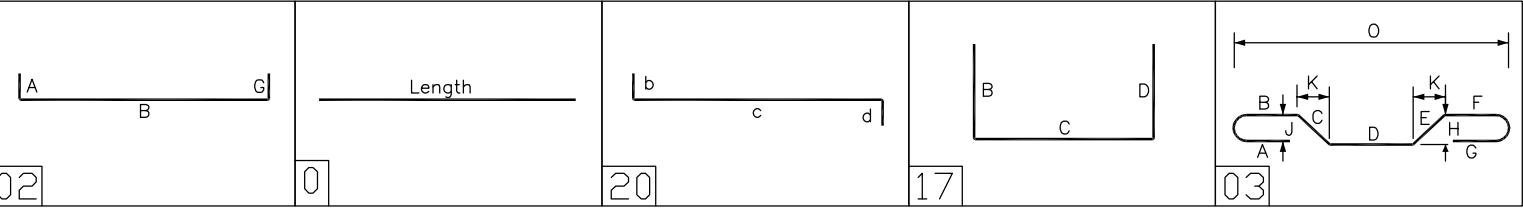
BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

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: R6.0D GF TLL P#1				BENDING DETAILS.											
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'I'	'J'	'K'
98 20M	6900					6900									
50 25M	6000					6000									
98 20M	6600					6600									
109 20M	7300					7300									
2020	59 20M	4400	20			2790	150	660							
2015	89 20M	4300	20			2490	150	660							
2016	34 20M	4000	20			2790	150	660							
2017	5 20M	3000	2		310										
2013	24 20M	4400	20			2590	150	660							
2014	14 20M	4700	20			2890	150	660							
2019	204 20M	1560	2		310	1250									
2501	20 25M	5300	2		400	4900									
2012	12 20M	3600	2		310	3290									
2018	109 20M	5200	2		310	4890									
2011	24 20M	2000	2		310	1690									



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. AF
By
Date 25 May 2021
JABLONSKY, AST AND PARTNERS
Consulting Engineers
3 Concorde Gate, North York, ON M2C 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 DRWG

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

STRAIGHT BARS LABEL FORMAT		BENT BARS LABEL FORMAT		GRADES OF STEEL	
7 B15M X 3600	GRADE LENGTH QUANTITY	7 B15M B1501	GRADE LENGTH QUANTITY	B = GRADE 400W	COATED
				C = GRADE 500W	COATED
				S = STAINLESS	WELDABLE
				W = WELDABLE	

FOR APPROVAL	MAY/18/21	JU
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ISSUE	REMARKS	DATE	BY
-------	---------	------	----

MANSTEEL	MANSTEEL REBAR
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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 TLL P#1

CUSTOMER :
ROYAL PINE HOMES

Project no. 2177
SCALE AS SHOWN
DRAWING No.
R6.0D

DETAILED BY: JU
CHECKED BY:

BAR LIST No.

NOTES

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

-- 25mm
-- 25mm

4. COMPRESSION LAP SPLICE

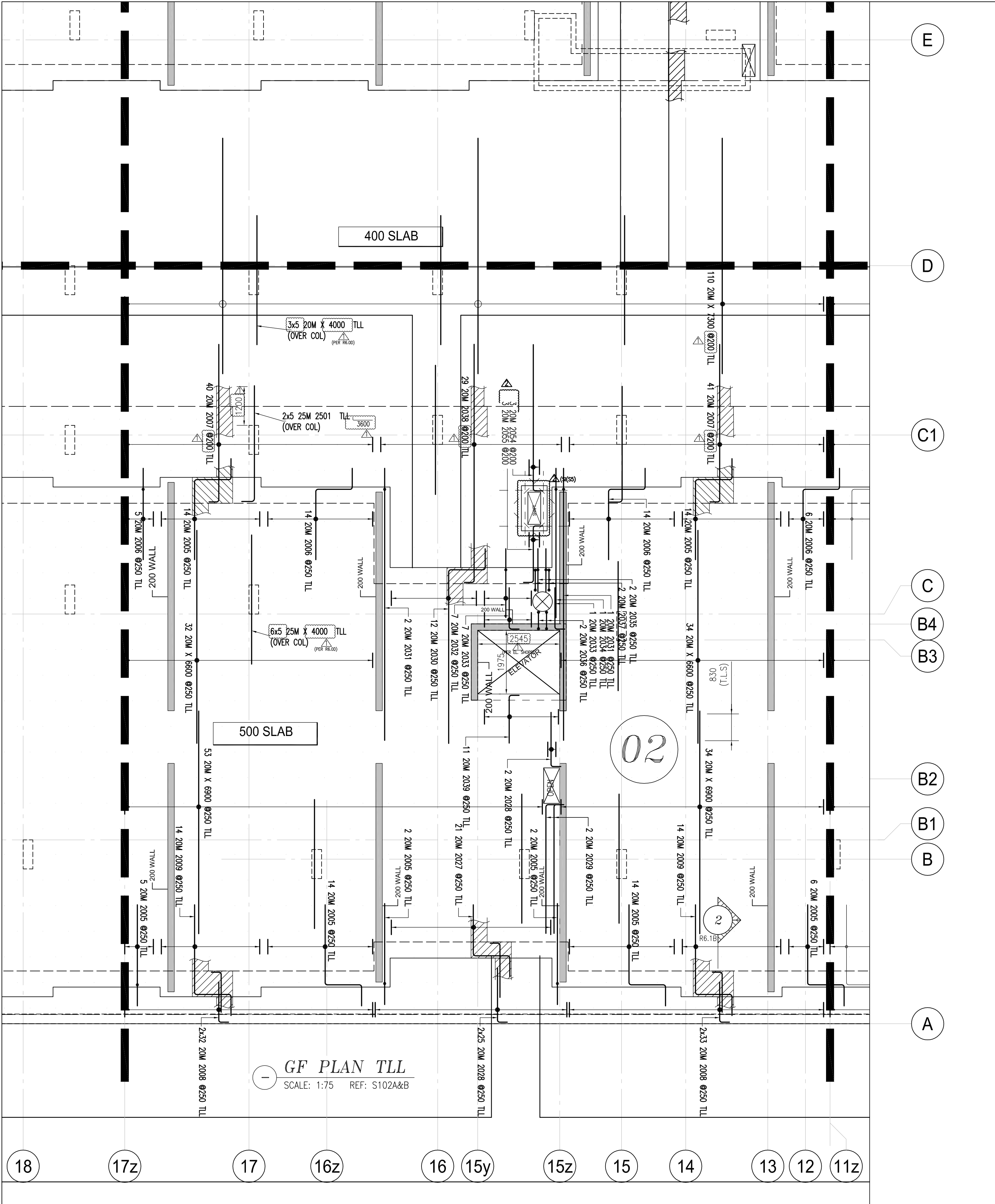
BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

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
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



E

D

C1

C

B4

B3

B2

B1

B

A

NOTES

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

-- 25mm
-- 25mm

4. COMPRESSION LAP SPLICE

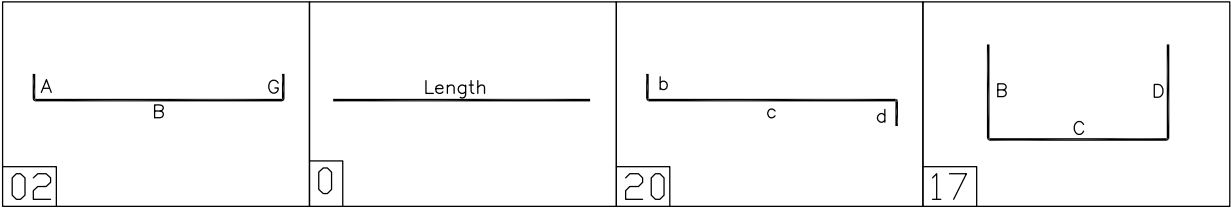
BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

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
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: R6.1D GF TLL P#2						BENDING DETAILS.											
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'	
	30	25M	4000			4000											
	66	20M	6600			6600											
	15	20M	4000			4000											
	12	20M	7300			7300											
	87	20M	6900			6900											
2036	2	20M	1150	2	310	530						310					
2037	2	20M	1260	2	310	640						310					
2006	39	20M	4000	20		2190	1150	660									
2008	130	20M	1560	2	310	1250											
2501	10	25M	4000	2	400	3600											
2005	71	20M	4300	20		2490	1150	660									
2027	21	20M	3400	20		1590	1150	660									
2009	28	20M	4600	20		2790	1150	660									
2038	29	20M	7700	2	310	7390											
2029	2	20M	4310	2	310	4000											
2030	12	20M	7200	20		5390	1150	660									
2031	3	20M	9600	20		7790	1150	660									
2032	7	20M	3300	20		1490	1150	660									
2039	11	20M	1800	2	310	1490											
2028	52	20M	2000	2	310	1690											
2007	81	20M	5200	2	310	4890											
2034	1	20M	5800	20		3990	1150	660									
2033	8	20M	1600	2	310	1290											
2035	2	20M	2500	20		690	1150	660									

Release Code: R6.1D GF TLL P#2 PATCH BENDING DETAILS.																
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
2054	3	20M	4850	2	310	4540										
2055	3	20M	2390	20		310	1770	310								



DRAWING REVIEW

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<input checked="" type="checkbox"/> No comment	<input type="checkbox"/> See comment
<input type="checkbox"/> Amend & Resubmit	<input type="checkbox"/> Rejected See Remarks

Submission No. 19066
Project No. AF
By 15 Jun 2021
Date

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 DRWGS

LEGEND									
ALT = ALTERNATE	FF = FAR FACE	GF = OUTSIDE FACE							
BOT = BOTTOM	FS = FORM SAWER	SW = 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.	IF = INSIDE FACE	THR/1 = THREAD LENG							
DWL = DOWELS	LL = LOWER LAYER	THR/2 = THREAD ZENIS							
EE = EACH END	MD = MIDDLE	UL = UPPER LAYER							
EF = EACH FACE	MIN = MINIMUM	U/N = UNLESS NOTED							
EJ = EXPANSION JOINT	NF = NEAR FACE	V = VERTICAL							
ES = EACH SIDE	OC = ON CENTER	TT = TEMP. TIES							
EW = EACH WAY									

STRAIGHT BARS LABEL FORMAT									
7 B15M X 3600	GRADE	LENGTH							
QUANTITY									

BENT BARS LABEL FORMAT									
7 B15M B1501	GRADE	LENGTH							
QUANTITY									

GRADES OF STEEL									
B = GRADE 400W									
C = GRADE 500W									
D = GRADE 600W									
E = GRADE 700W									
F = GRADE 800W									
G = GRADE 900W									
H = GRADE 1000W									
I = GRADE 1100W									
J = GRADE 1200W									
K = GRADE 1300W									
L = GRADE 1400W									
M = GRADE 1500W									
N = GRADE 1600W									
O = GRADE 1700W									
P = GRADE 1800W									
Q = GRADE 1900W									
R = GRADE 2000W									
S = GRADE 2100W									
T = GRADE 2200W									
U = GRADE 2300W									
V = GRADE 2400W									
W = GRADE 2500W									
X = GRADE 2600W									
Y = GRADE 2700W									
Z = GRADE 2800W									
AA = GRADE 2900W									
AB = GRADE 3000W									
AC = GRADE 3100W									
AD = GRADE 3200W									
AE = GRADE 3300W									
AF = GRADE 3400W									
AG = GRADE 3500W									
AH = GRADE 3600W									
AI = GRADE 3700W									
AJ = GRADE 3800W									
AK = GRADE 3900W									
AL = GRADE 4000W									
AM = GRADE 4100W									
AN = GRADE 4200W									
AO = GRADE 4300W									
AP = GRADE 4400W									
AQ = GRADE 4500W									
AR = GRADE 4600W									
AS = GRADE 4700W									
AT = GRADE 4800W									
AU = GRADE 4900W									
AV = GRADE 5000W									
AW = GRADE 5100W									
AX = GRADE 5200W									
AY = GRADE 5300W									
AZ = GRADE 5400W									
BA = GRADE 5500W									
BB = GRADE 5600W									
BC = GRADE 5700W									
BD = GRADE 5800W									
BE = GRADE 5900W									
BF = GRADE 6000W									
BG = GRADE 6100W									
BH = GRADE 6200W									
BI = GRADE 6300W									
BJ = GRADE 6400W									
BK = GRADE 6500W									
BL = GRADE 6600W									
BM = GRADE 6700W									
BN = GRADE 6800W									
BO = GRADE 6900W									
BP = GRADE 7000W									
BQ = GRADE 7100W									
BR = GRADE 7200W									
BS = GRADE 7300W									
BT = GRADE 7400W									
BU = GRADE 7500W									
BV = GRADE 7600W									
BW = GRADE 7700W									
BX = GRADE 7800W									
BY = GRADE 7900W									
BZ = GRADE 8000W									
CA = GRADE 8100W									
CB = GRADE 8200W									
CC = GRADE 8300W									
CD = GRADE 8400W									
CE = GRADE 8500W									
CF = GRADE 8600W									
CG = GRADE 8700W									
CH = GRADE 8800W									
CI = GRADE 8900W									
CJ = GRADE 9000W									
CK = GRADE 9100W									
CL = GRADE 9200W									
CM = GRADE 9300W									
CN = GRADE 9400W									
CO = GRADE 9500W									
CP = GRADE 9600W									
CQ = GRADE 9700W									
CR = GRADE 9800W									
CS = GRADE 9900W									
CT = GRADE 10000W									

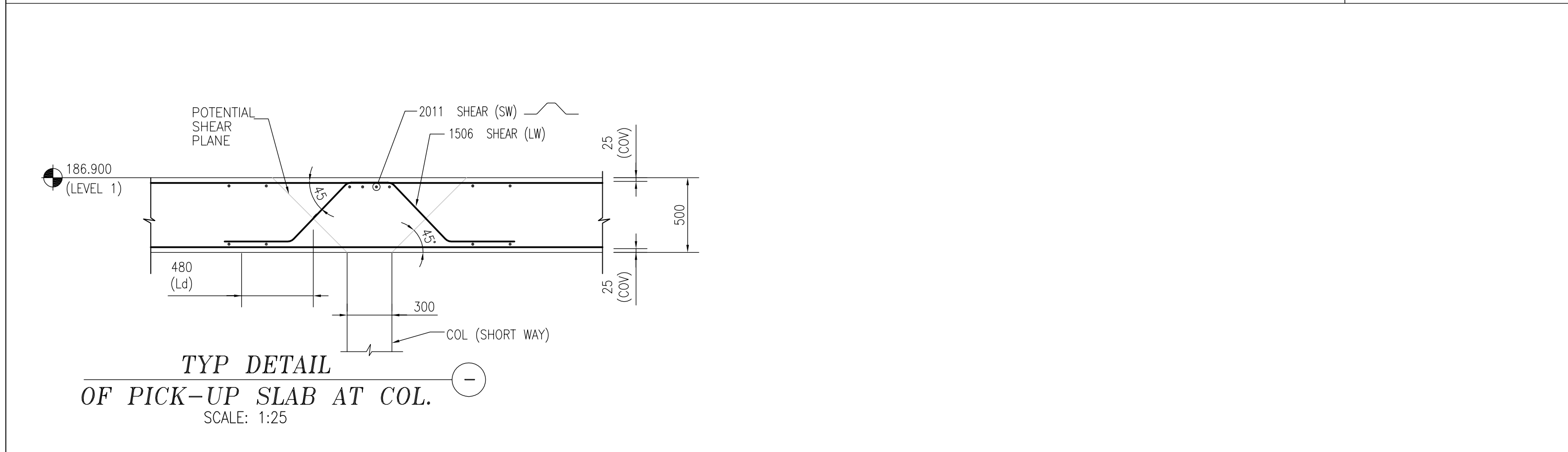
MANSTEEL



REBAR

MANSTEEL REBAR

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



Release Code: R6.1A GF BLL P#2 PATCH BENDING DETAILS.																
Bar Mark	Qty	Size	Total length	type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
		4	15M	1100			1100									
		8	20M	2100			2100									
		8	20M	2300			2300									
1004		4	10M	2500	17		900	700	900							
1006		4	10M	1660	2	180						180				
1005		4	10M	1660	2	180	700					180				
1003		30	10M	1330	2	180	1150									
1531		2	15M	1820	2	260	1300								260	
1532		2	15M	1220	2	260	700								260	
2051		4	20M	3570	2	310	3260									
2052		4	20M	1090	2	310	780									
1529		2	15M	2700	17		1000	700	1000							

DRAWING REVIEW

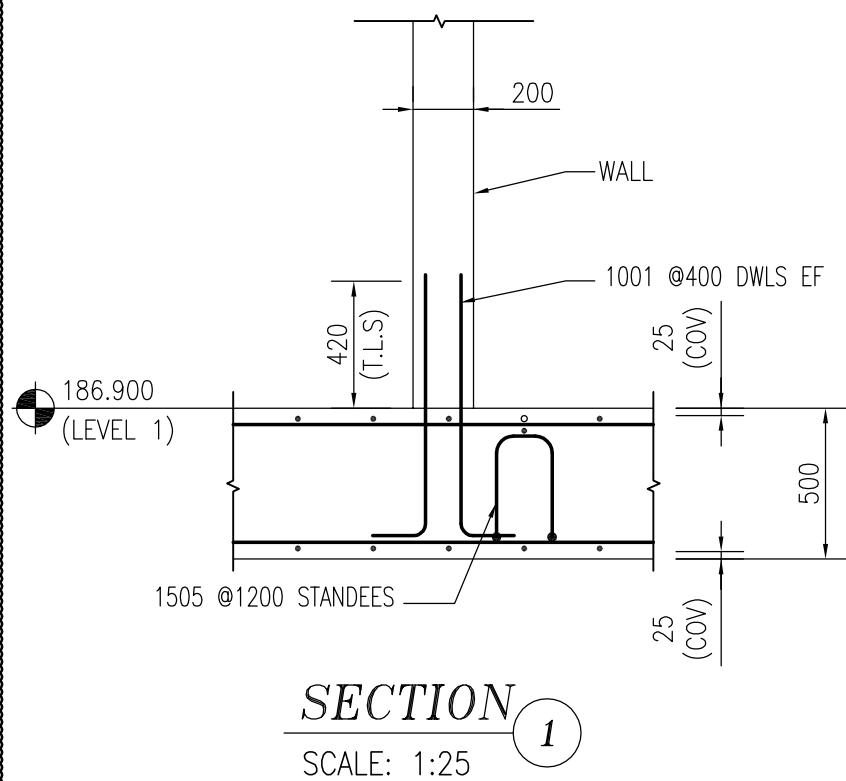
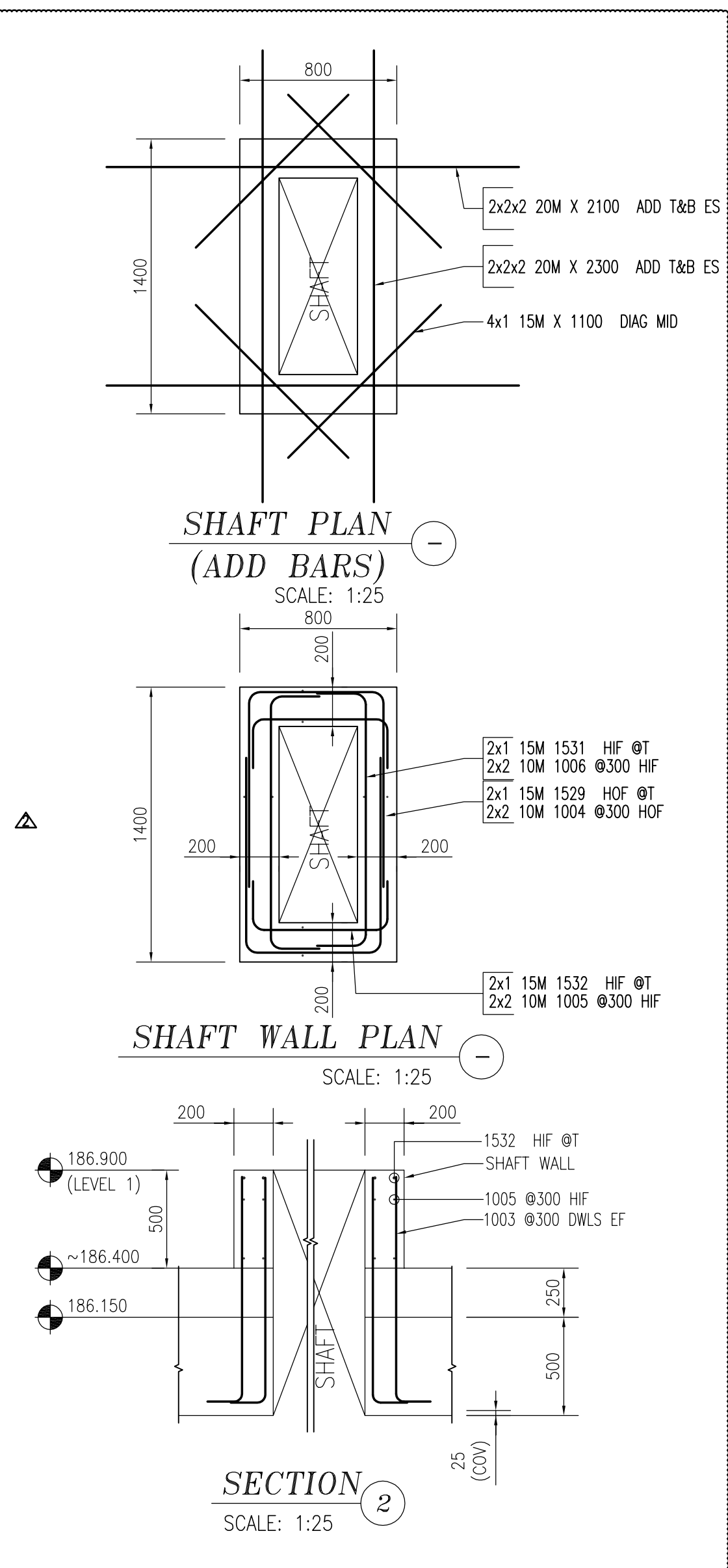
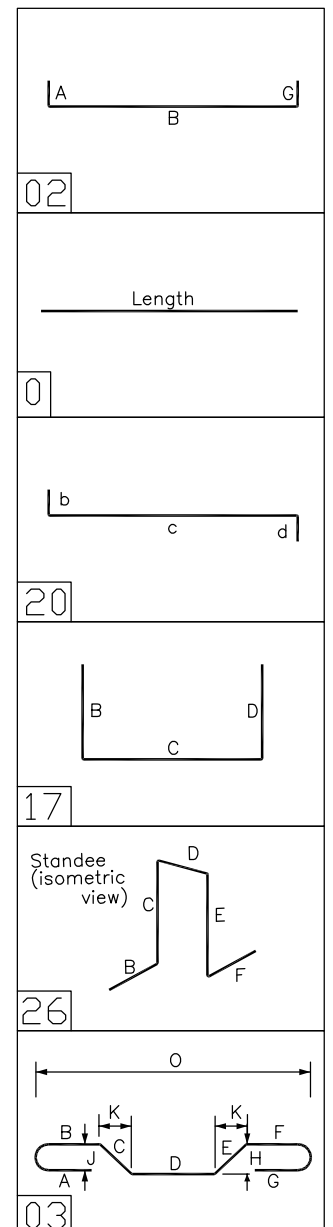
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<input checked="" type="checkbox"/>	No comment	See comment
<input type="checkbox"/>	Amend & Resubmit	Rejected See Remarks

Submission No. _____
 Project No. 19066
 By AF
 Date 15 Jun 2021

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

Release Code: R6.1A GF BLL P#2					BENDING DETAILS.											
Bar Mark	Qty	Size	total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'
	36	20M	7500			7500										
	32	20M	4000			4000										
	40	20M	9800			9800										
	4	20M	2300			2300										
	105	20M	6550			6550										
	4	20M	2200			2200										
	7	20M	2800			2800										
	8	15M	1100			1100										
	4	20M	2400			2400										
	9	20M	2600			2600										
	11	20M	12500			12500										
	28	20M	6600			6600										
	9	20M	7400			7400										
	3	20M	9100			9100										
	2	15M	9800			9800										
	4	20M	4700			4700										
	5	15M	4700			4700										
	2	15M	6600			6600										
	2	15M	5950			5950										
	44	25M	4000			4000										
1001	214	10M	1050	2	180	870										
1505	340	15M	1500	26		300	350		200	350	300					
1504	90	15M	1400	26		300	250		200	350	300					
1002	62	10M	1800	2	180	1620										
1510	2	15M	2960	2	260	2700										
2014	2	20M	2170	2	310	1860										
2019	7	20M	3560	20		660	1150		1750							
2020	7	20M	6910	20		660	1150		5100							
2016	11	20M	4910	2	310	4600										
1502	4	15M	1820	17		1100	720									
1503	4	15M	3400	17		2680	720									
2017	13	20M	6310	20		660	1150		4500							
2018	13	20M	4210	20		660	1150		2400							
1513	2	15M	4960	2	260	4700										
2013	2	20M	2500	2	310	2190										
2015	23	20M	2960	2	310	2650										
1509	6	15M	2300	20		700	1320		280							
1511	2	15M	5300	2	260	5400										
1512	2	15M	2000	2	260	1740										
1514	2	15M	1600	2	260	1340										
1515	2	15M	3040	17		700	2340									
1516	2	15M	5740	17		700	5840									
1517	2	15M	2440	17		700	1740									
2011	28	20M	2540	3		600	520		300		600		390		350	2200
1507	18	15M	2020	3		450	410		300		410		310		270	1740
2012	12	20M	2360	3		650	380		300		380		650		290	250
1506	42	15M	2300	3		450	550		300		550		410		370	1940
1523	4	15M	3160	2	260	2900										
1527	16	15M	1300	2	260	1040										
1528	16	15M	2100	2	260	1840										
1508	4	15M	2760	2	260	2500										
		</														



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LEGEND					
ALT =	ALTERNATE	FF =	FAIR FACE	OF =	OUTSIDE FACE
BOT =	BOTTOM	FS =	FORM SAWN	SC =	SAW CUT END
BS =	BEND INTO SLAB	GID =	GROUT IN DOWELS	STG =	STAGGER
CB =	CORNER BRACKET	GR =	GROUT	TH =	THICKNESS
CS =	CONTROL JOINT	IN =	INSIDE FACE	T =	TOP
CSL =	CUT TO SUIT SLOPE	LN =	LOWER LAYER	THR2 =	THREAD 1 END
DWL =	DOWELS	ML =	MIDDLE	U =	UPPER LAYER
E =	EACH END	MIN =	MINIMUM	UN =	UNLESS NOTED
EAC =	EACH FACE	NC =	NEAR FACE	V =	VERTICAL
EJ =	EACH END JOINT	OC =	ON CENTER	TT =	TEMP. TIES
ES =	EACH SIDE				
EW =	EACH WAY				

2	REV. PER SI(S5)	JUN/09/21	JU
1	REV. PER COMM. FOR FAB.	MAY/31/21	JU
0	FOR APPROVAL	MAY/19/21	JU

ISSUE	REMARKS	DATE	BY
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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

ART OF STRUCTURE

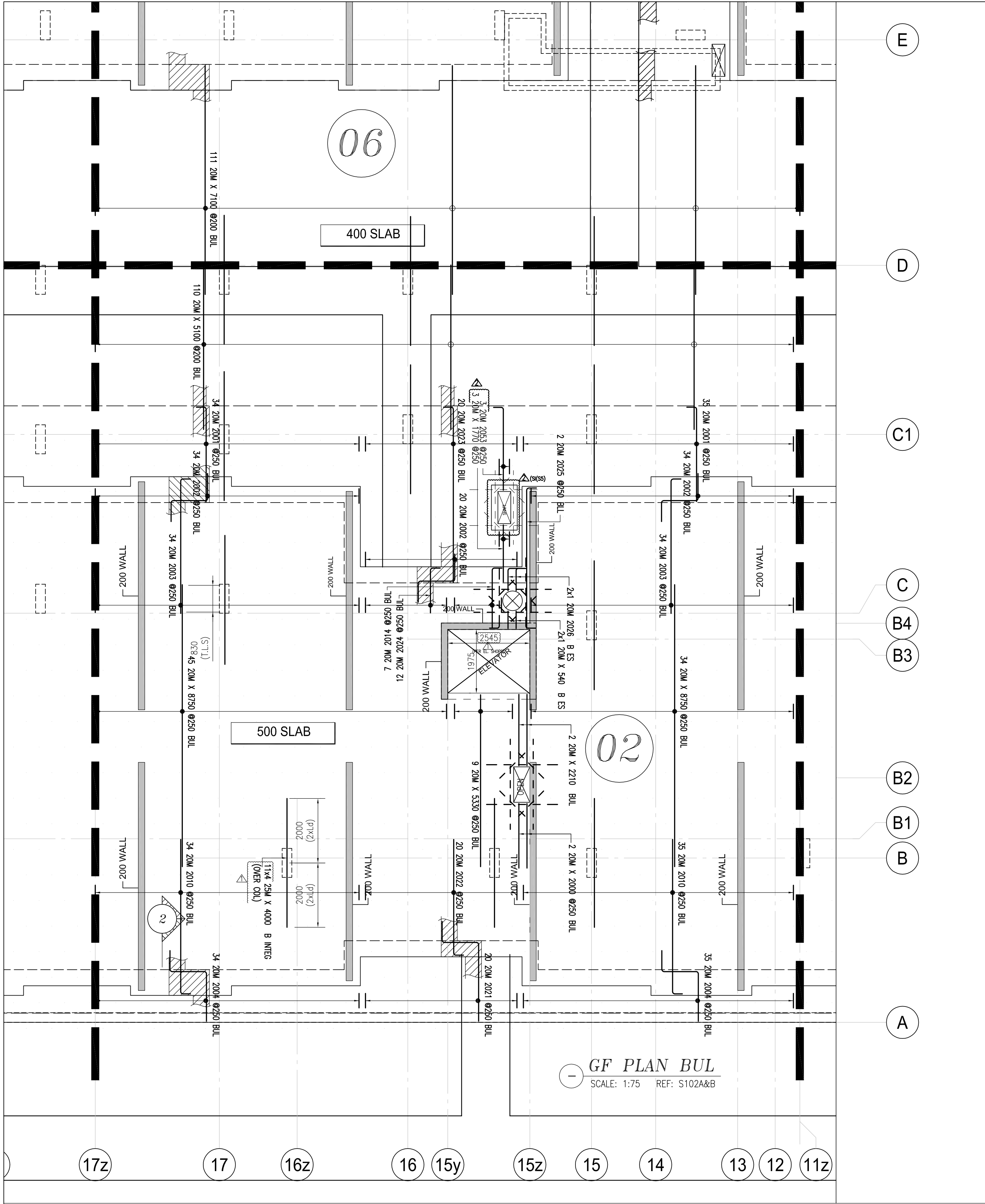
G.F SLAB BLL P#2

CUSTOMER :	Project no. 2177
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ROYAL PINE HOMES	SCALE: AS SHOWN
	DRAWING No.

DETAILED BY: JU	BAR LIST No.	R6.1A 
CHECKED BY:		

R6.1A₂



- NOTES**
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

4. COMPRESSION LAP SPlice

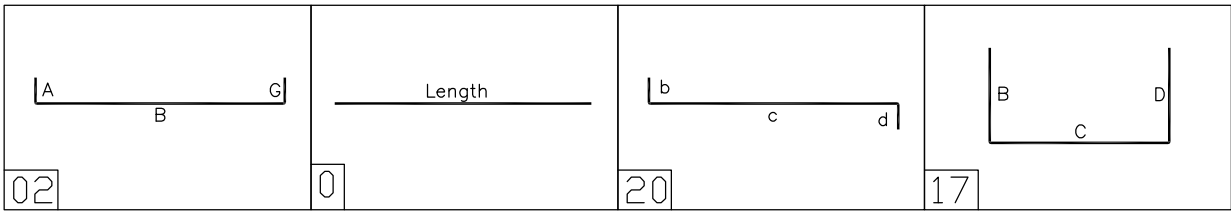
BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

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: R6.1B GF BUL P#2 BENDING DETAILS.													
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'
210M	540		540										
220M	2000		2000										
230M	2210		2210										
240M	5100		5100										
250M	7100		7100										
260M	8750		8750										
270M	5330		5330										
280M	4000		4000										
290M	5110	2	310	4800									
300M	4260	20	660	1150	2450								
310M	3910	2	310	3600									
320M	5750	2	310	5440									
330M	1710	2	310	1400									
340M	2110	2	310	1860									
350M	4670	2	310	4360									
360M	1010	2	310	700									
370M	3360	20	660	1150	1550								
380M	3250	2	310	2940									
390M	2660	20	660	1150	850								
400M	4490	2	310	4180									

Release Code: R6.1B GF BUL P#2 PATCHBENDING DETAILS.													
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'
2053	320M	1770											
2053	320M	2890	2	310	2580								



DRAWING REVIEW

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<input checked="" type="checkbox"/> No comment	<input type="checkbox"/> See comment
<input type="checkbox"/> Amend & Resubmit	<input type="checkbox"/> Rejected
<input type="checkbox"/> See Remarks	

Submission No. 19066
Project No. AF
By AF
Date 15 Jun 2021

JABLONSKY, AST AND PARTNERS
Consulting Engineers
8 Concorde Gate, North York, ON M3C 4H6

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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 = STRIPS
CU = 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	V = VERTICAL
EJ = EXPANSION JOINT	OC = ON CENTER	TT = TAMP, TIES
ES = EACH SIDE		
FW = EACH WAY		

STRAIGHT BARS LABEL FORMAT		BENT BARS LABEL FORMAT		GRADES OF STEEL	
7 B15M X 3600	QUANTITY	7 B15M B1501	QUANTITY	B = GRADE 400W	
GRADE	LENGTH	SIZE L - BAR MARK		C = GRADE 500W	
				F = GRADE 600W	
				S = STAINLESS	
				W = WELDABLE	

ISSUE	REMARKS	DATE	BY
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MANSTEEL	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#2

CUSTOMER :	Project no. 2177
ROYAL PINE HOMES	SCALE AS SHOWN
DETAILED BY: JU	DRAWING No.
CHECKED BY:	R6.1B