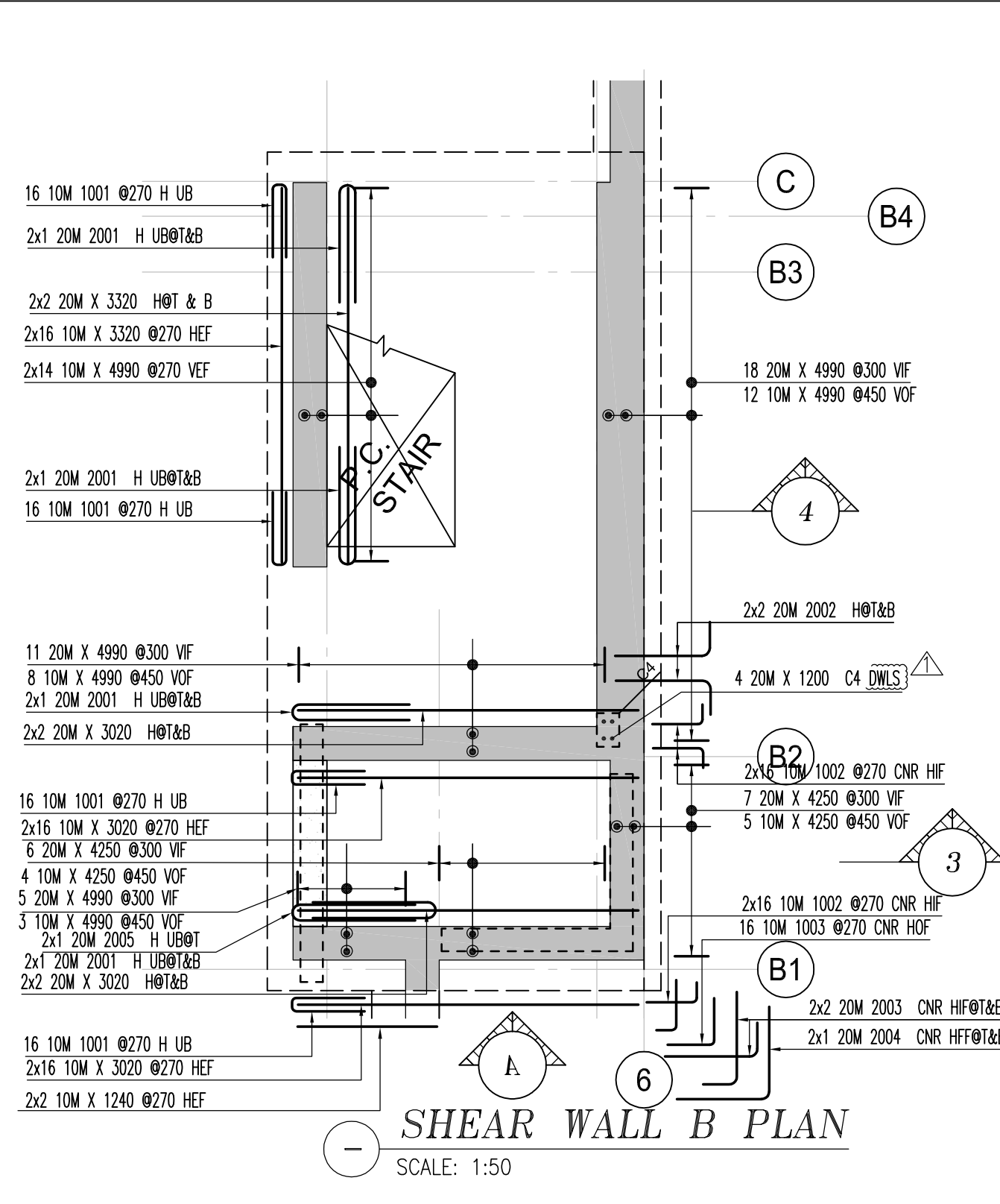
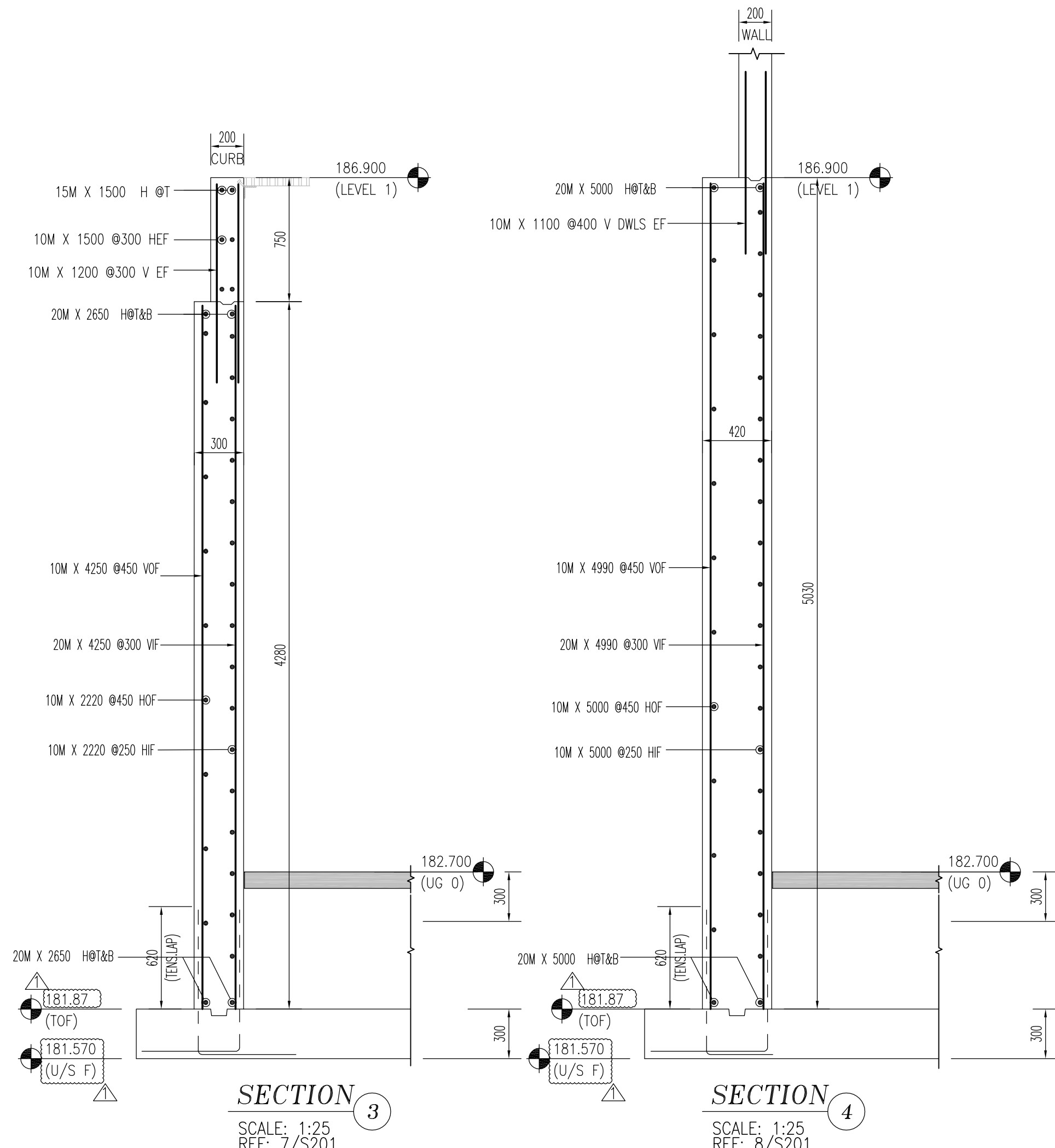
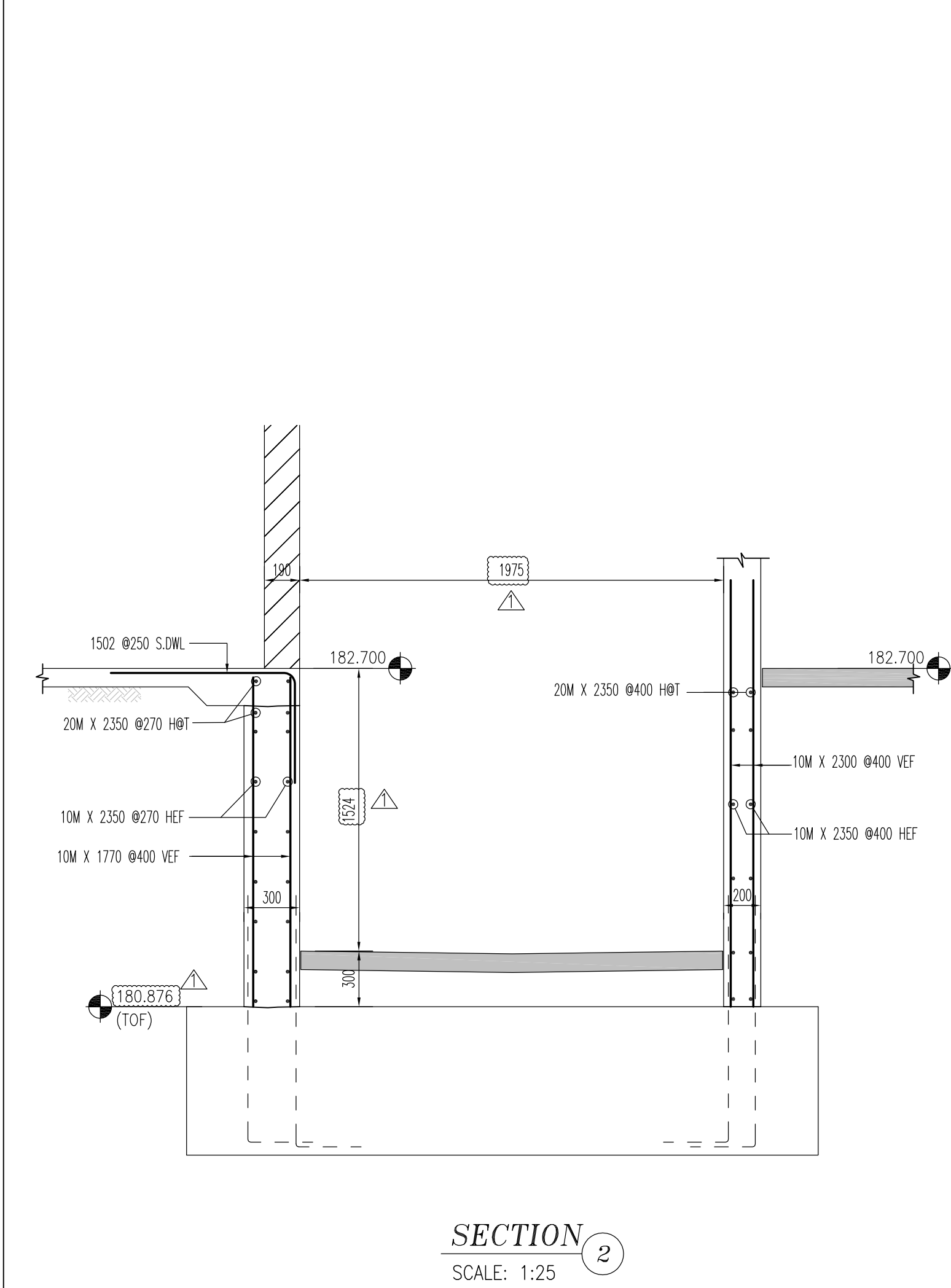
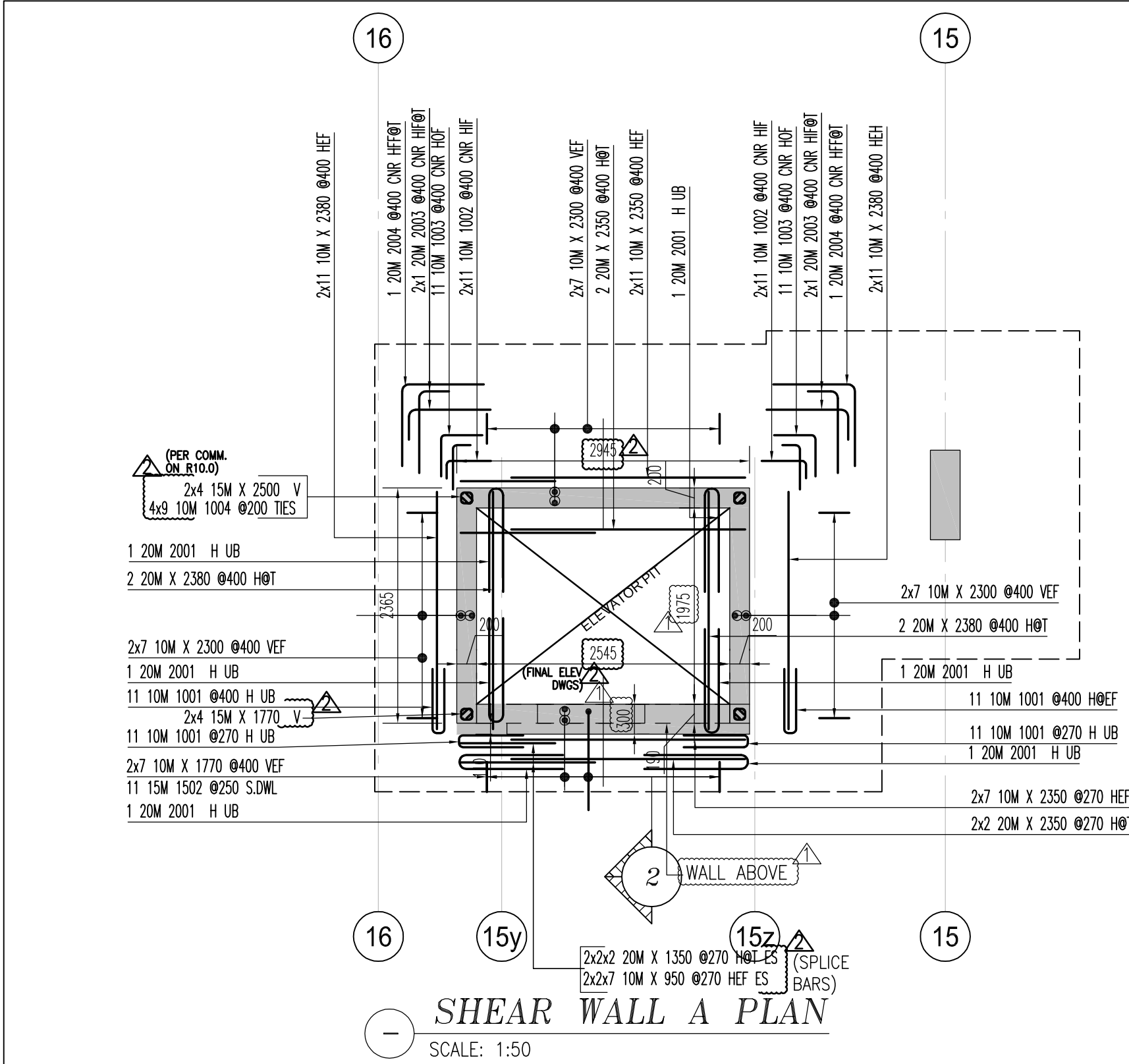
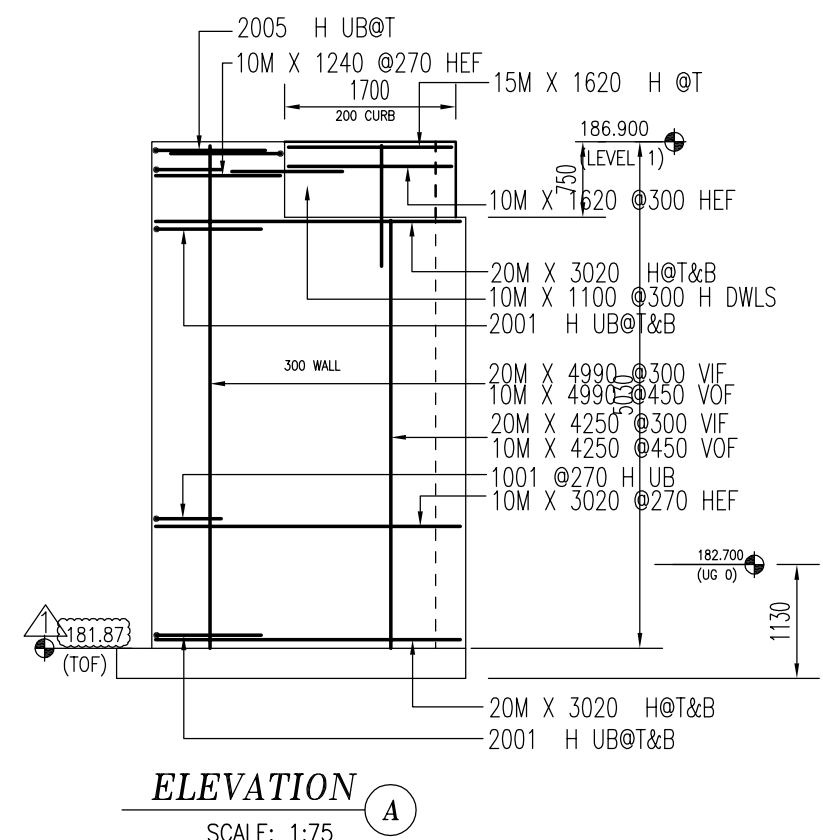
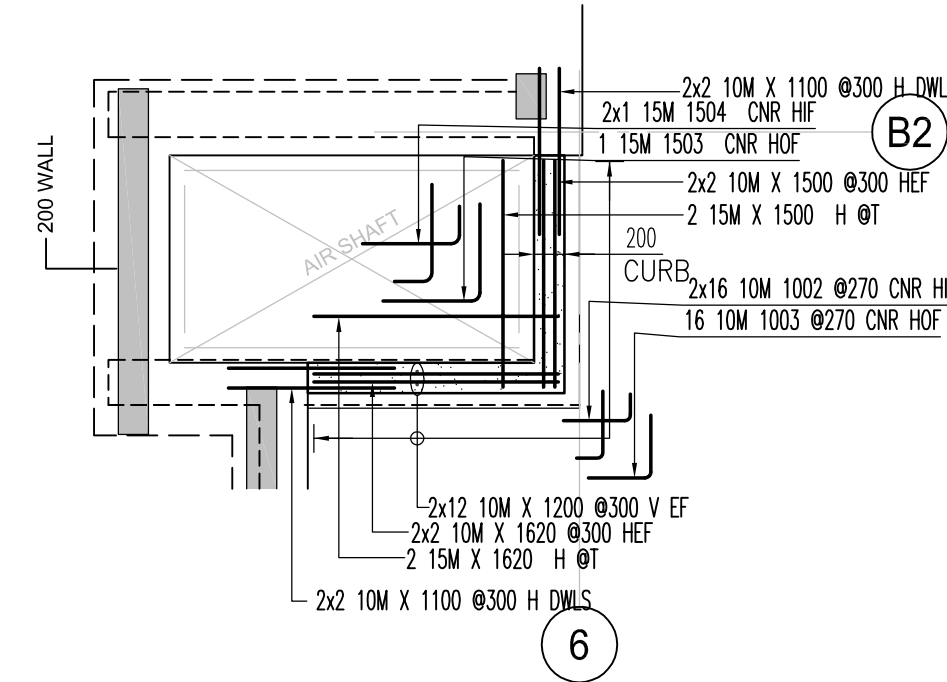




SHEAR WALL B PLAN
SCALE: 1:50 (©186.15)

Release Code: R5.0 SW B F-GF P#1 BENDING DETAILS.											
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'
1002	96	10M	630.2	180							
1001	64	10M	1430.17			650	130	650			
1003	32	10M	840.17			420	420				
2001	8	20M	2260.17			1050	160	1050			
2005	2	20M	2360.17			1100	160	1100			
1503	1	15M	1300.17			650	650				
1504	2	15M	910.2	260		650					
2002	4	20M	1860.2	310		830					
2004	2	20M	1660.17			830	830				
2003	4	20M	1140.2	310		830					

Release Code: R5.0 SW A F-GF P#2 BENDING DETAILS.											
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'
1001	44	10M	1430.17			650	130	650			
1003	22	10M	840.17			420	420				
2001	6	20M	2260.17			1050	160	1050			
1502	1	15M	1600.17			600	1000				
2004	2	20M	1660.17			830	830				
2003	4	20M	1140.2			310	830				



* 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

STRAIGHT BARS LABEL FORMAT			BENT BARS LABEL FORMAT			GRADES OF STEEL		
7 B15M X 3600	QUANTITY	GRADE	7 B15M B1501	QUANTITY	GRADE	B = GRADE 400W	C = GRADE 500W	D = GRADE 600W
						E = GRADE 600W	F = GRADE 600W	G = GRADE 600W
						H = GRADE 600W	I = GRADE 600W	J = GRADE 600W
						K = GRADE 600W	L = GRADE 600W	M = GRADE 600W
						N = GRADE 600W	O = GRADE 600W	P = GRADE 600W
						Q = GRADE 600W	R = GRADE 600W	S = GRADE 600W
						T = GRADE 600W	U = GRADE 600W	V = GRADE 600W
						W = GRADE 600W	X = GRADE 600W	Y = GRADE 600W
						Z = GRADE 600W		

ISSUE	REMARKS	DATE	BY
2	REV PER FINAL ELEVATOR DWG'S & ADDED ZONE BARS	JUN/09/21	JU
1	REV PER COMM -FOR FAB.	MAY/05/21	JU
0	FOR APPROVAL	APR/14/21	JU

MANSTEEL REBAR		MANSTEEL REBAR	
105 Industrial Road, Richmond Hill, Ontario L4C 2Y4 Canada Phone: 905-737-9797 Fax: 905-737-9794 Email: info@mansteelrebar.com		105 Industrial Road, Richmond Hill, Ontario L4C 2Y4 Canada Phone: 905-737-9797 Fax: 905-737-9794 Email: info@mansteelrebar.com	

FORESTSIDE TOWNHOUSES -BRAMPTON, ON		PROJECT	
PART OF STRUCTURE		SHEAR WALLS FTG-GF -P#1,2	
CUSTOMER :		Project no. 2177	
ROYAL PINE HOMES		SCALE AS SHOWN	
DETAILED BY: JU		DRAWING No. R5.0	
CHECKED BY:		BAR LIST No.	

NOTES

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

3. CONCRETE COVER:
VERTICALS

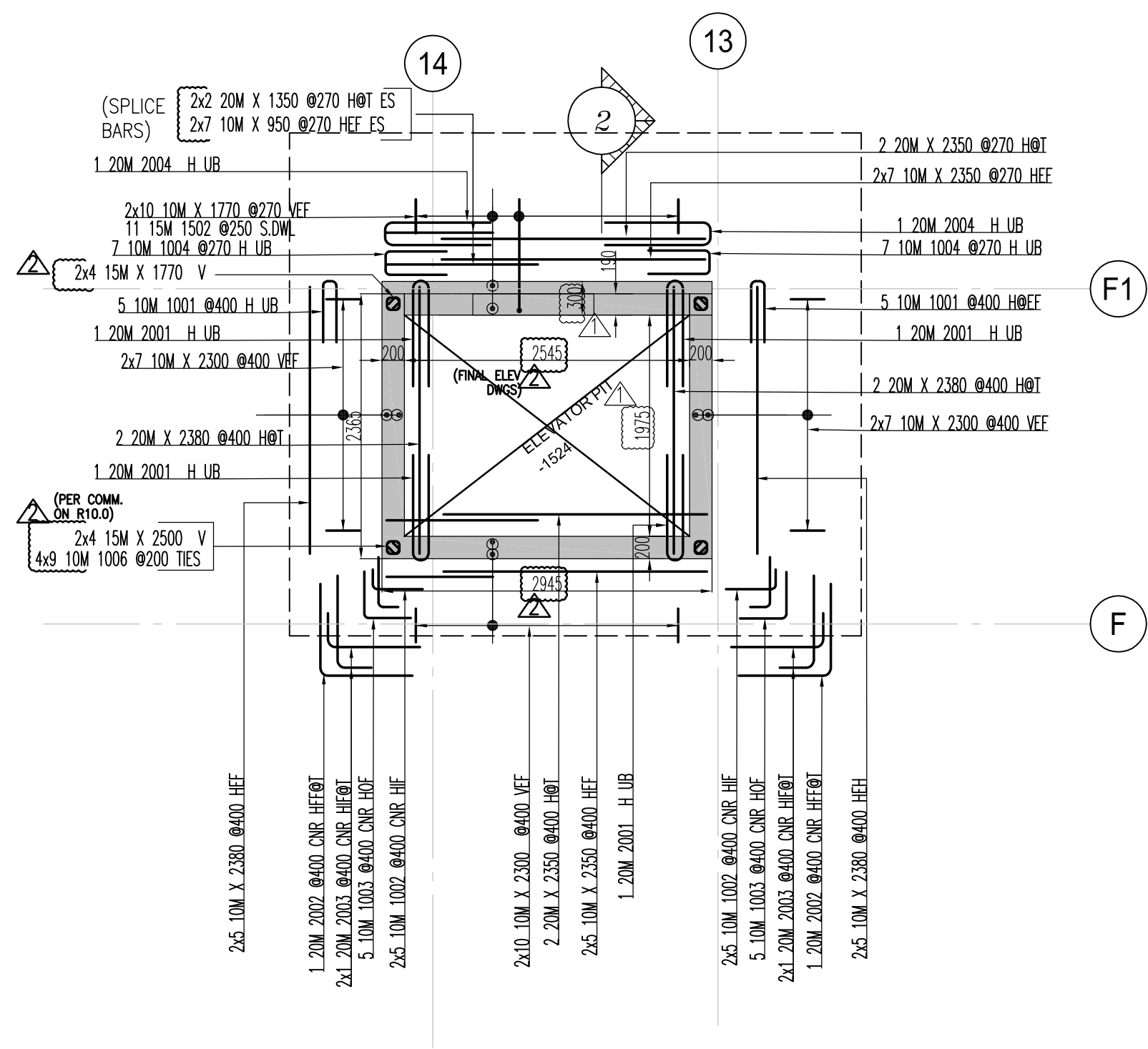
-- 30mm

4. COMPRESSION LAP SPLICE

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

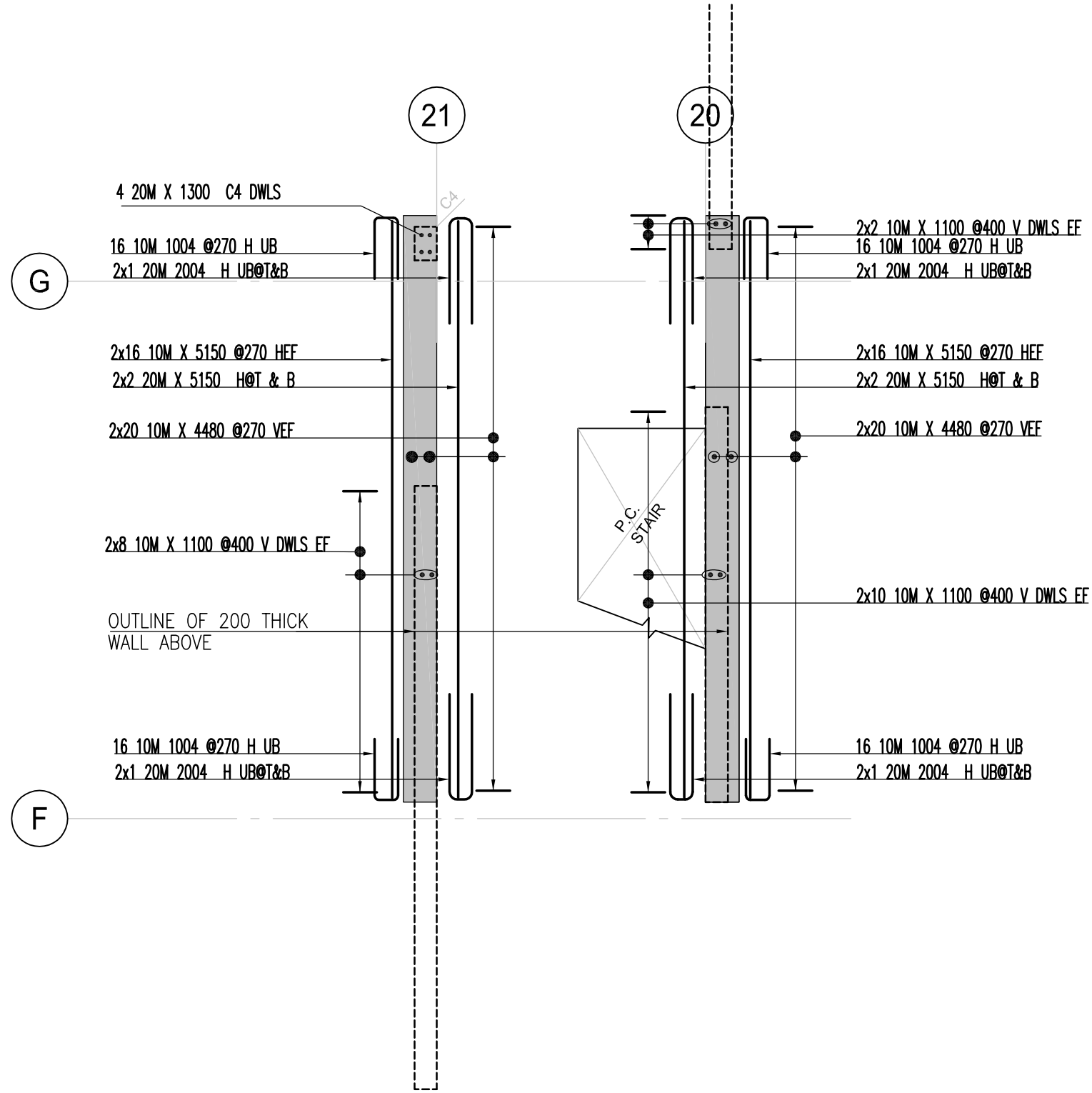
5. TENSION LAP SPLICE (Ls) & DEVELOPMENT LENGTH (Ld) (FOR WALL OR COL & LD IN CAP OR FTG.)

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



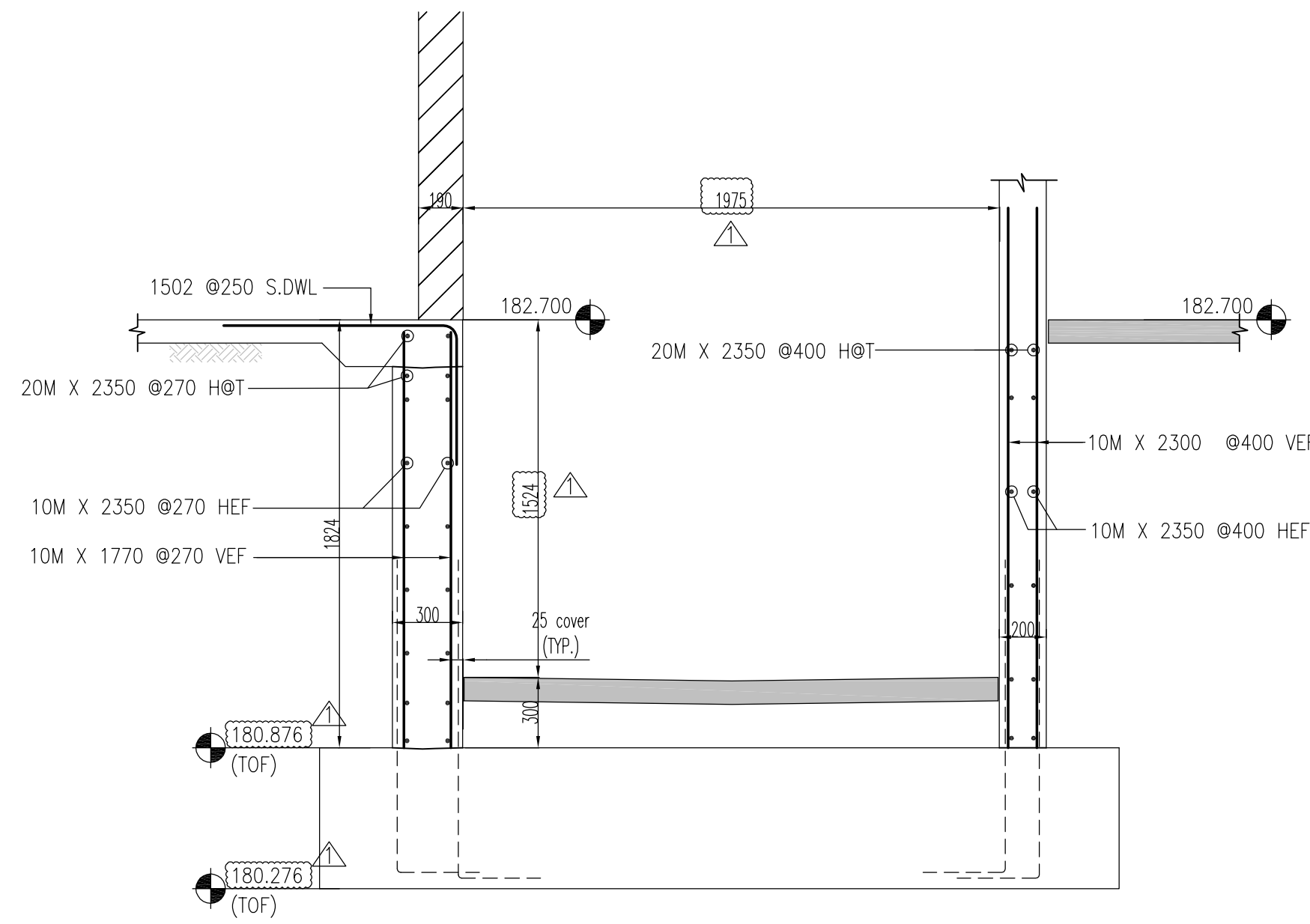
SHEAR WALL A PLAN

SCALE: 1:50



SHEAR WALL B PLAN

SCALE: 1:50



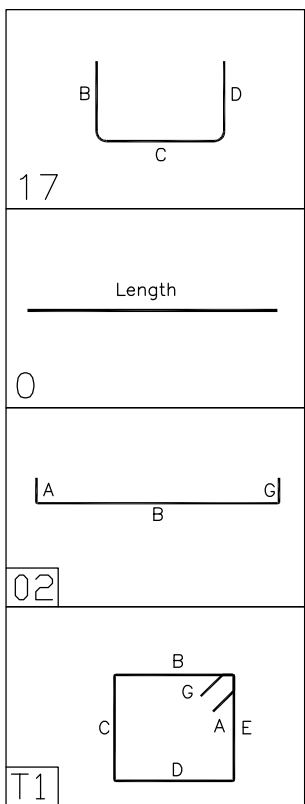
SECTION 2

SCALE: 1:25

Release Code: R5.1 SW B F-GF P#6										BENDING DETAILS.							
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'O'	'R'	
	4	20M	2350				2350										
	4	20M	2380				2380										
	24	10M	2350				2350										
	20	10M	1770				1770										
	4 8	10M	2300				2300										
	20	10M	2380				2380										
1001	10	10M	1230	17			550	130	550								
1002	20	10M	630	2	180		450										
1003	10	10M	840	17			420	420									
1004	14	10M	1320	17			550	220	550								
2004	2	20M	2120	17			950	220	950								
1502	11	15M	1600	17			600	1000									
2003	4	20M	1140	2	310		830										
2002	2	20M	1660	17			830	830									
2001	4	20M	2060	17			950	160	950								

Release Code: R5.1 SW B F-GF P#7 BENDING DETAILS.																
Bar Mark	Qty	Size	Total length	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'I'	'J'	'K'	'L'	'M'
	4	20M	1300		1300											
	4	10M	1000		1000											
	8	20M	550		550											
	64	10M	550		550											
	80	10M	4480		4480											
1004		64	10M	1320	17			550	220	550						
2004		8	20M	2120	17			950	220	950						

Release Code: R5.1 SW B F-GF P#6 PAT BENDING DETAILS.																	
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'I'	'J'	'K'	'L'	'M'
	8	20M	1350			1350											
	28	10M	950			950											
	8	15M	2500			2500											
	8	15M	1770			1770											
1006	36	10M	680	11	100	120	120	120	120		100						



NOTES

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

- 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.)

FLYR WALL BAR SIZE	JK COL & Ld IN		CAP. OR FIG.		fc=35	
	fc=25	fc=30	fc=30	fc=35	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 DRWS

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

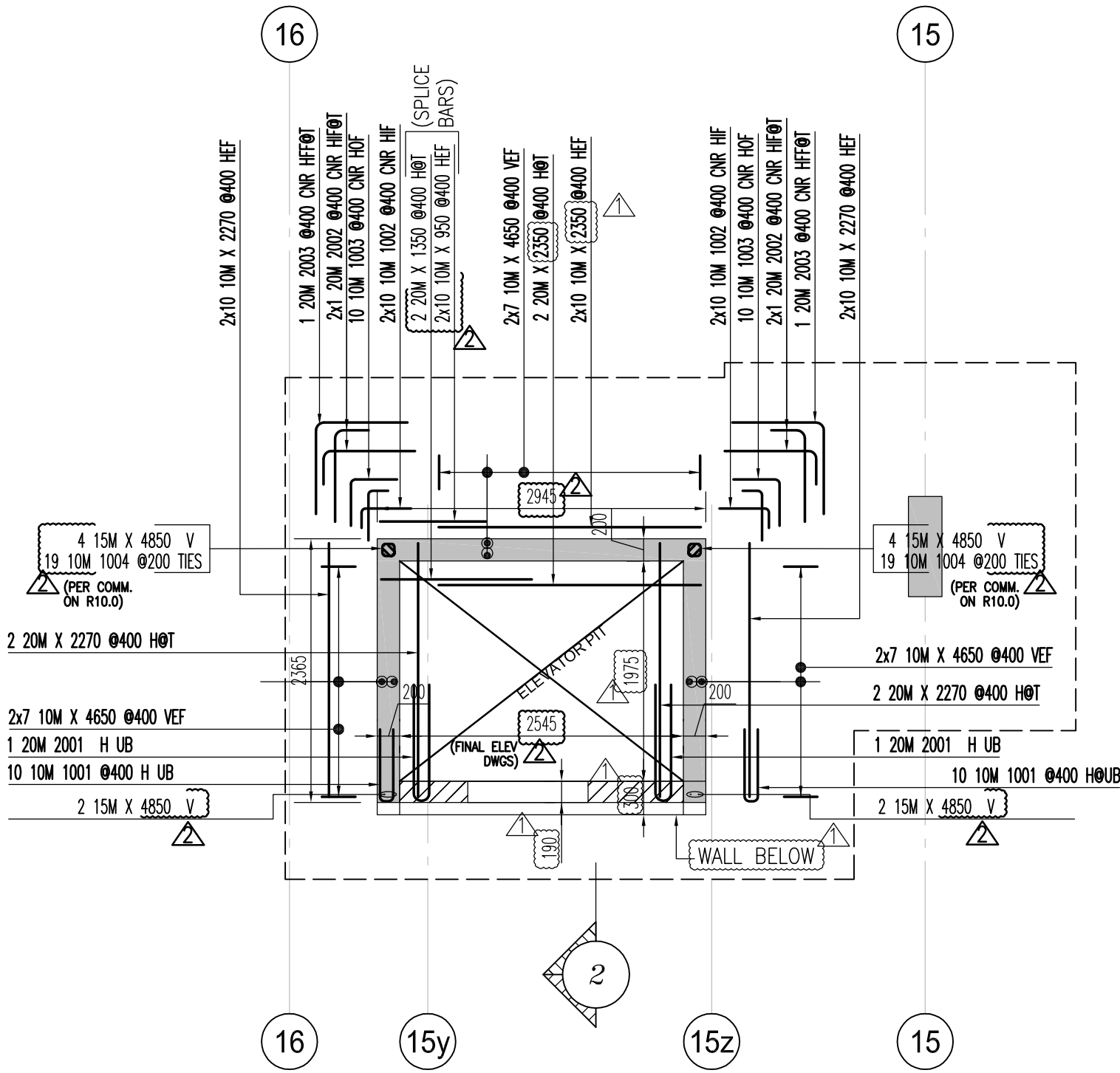
STRAIGHT BARS LABEL FORMAT	BENT BARS LABEL FORMAT	GRADES OF STEEL
7 B15M X 3600 QUANTITY L-LENGTH	7 B15M B1501 QUANTITY L-LENGTH	B = GRADE 400W C = GRADE 500W S = GALVANIZED W = WELDABLE

ISSUE	REMARKS	DATE	BY
1	REV PER FINAL ELEVATOR DWG'S & ADDED ZONE BARS	JUN/09/21	JU
2	REV PER COMM. -FOR_FAB.	MAY/10/21	JU
0	FOR APPROVAL	APR/21/21	JU

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

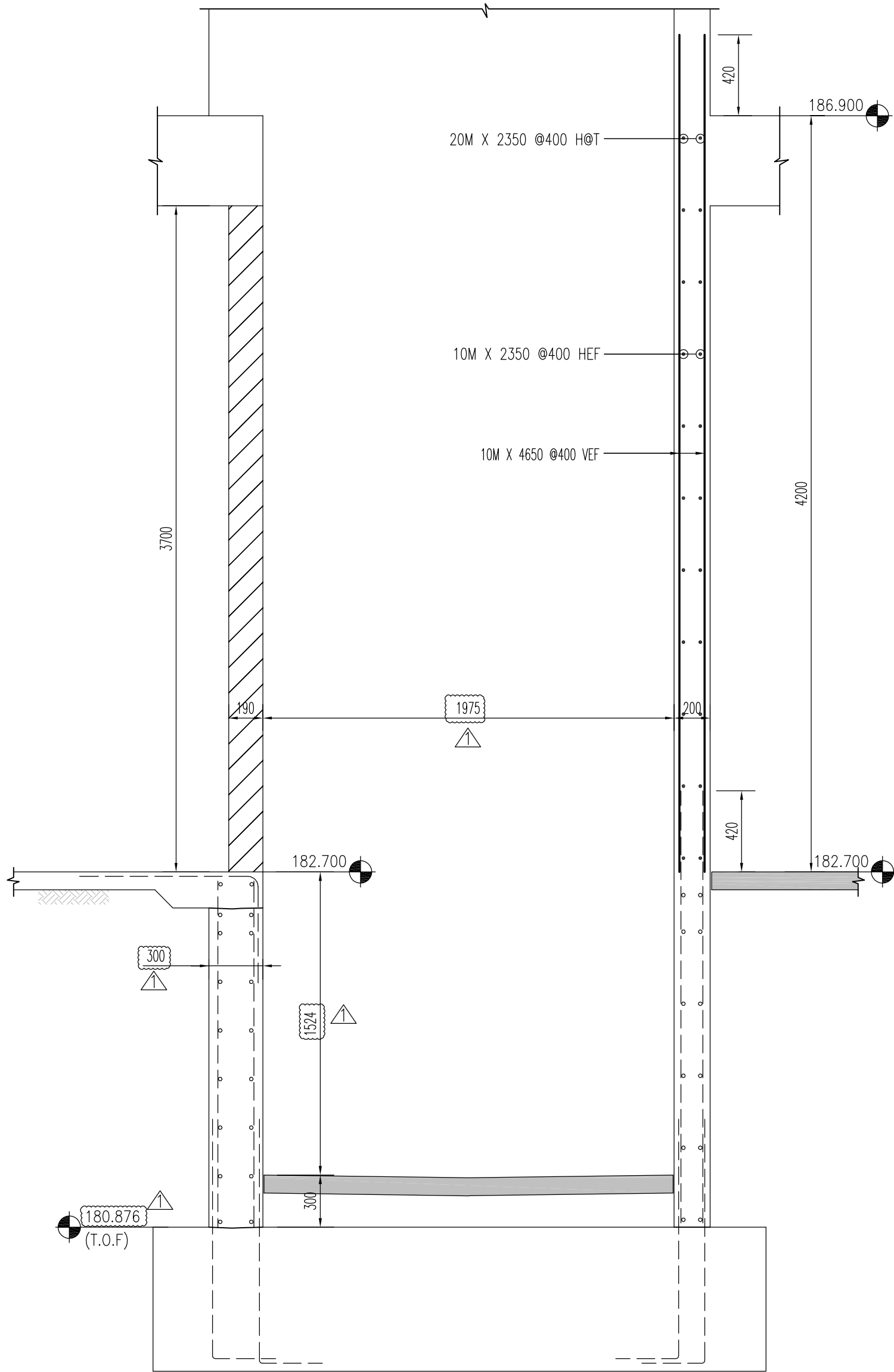
PROJECT	
FORESTSIDE TOWNHOUSES -BRAMPTON, ON	
PART OF STRUCTURE	
SHEAR WALLS -FTG-GF P#6,7	
CUSTOMER :	Project no. 2177
ROYAL PINE HOMES	SCALE: AS SHOWN
DRAWING No.	R5.1
DETAILED BY: JU	BAR LIST No.
CHECKED BY:	

TUB WALL 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



SHEAR WALL A PLAN

SCALE: 1:50
ABOVE 182,700 LEVEL

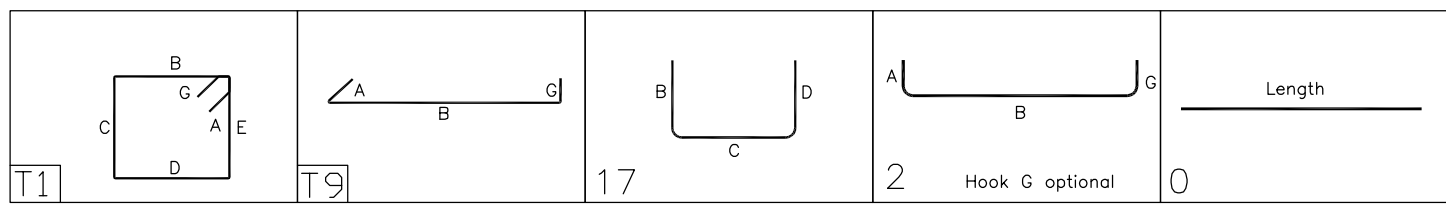


SECTION 2

SCALE: 1:25

Release Code: R5.3 ELEV SW UG-GF P#2 BENDING DETAILS.													
Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'
42 10M	4650		4650										
20 10M	2350		2350										
40 10M	2270		2270										
4 20M	2270		2270										
2 20M	2350		2350										
1001	20 10M	1630	17		650		130	650					
1002	20 10M	840	17		420		420						
1002	40 10M	630	2		180		450						
2002	4 20M	1140	2		300		830						
2003	2 20M	1660	17				830						
2001	2 20M	2260	17		1050		160	1050					

Release Code: R5.3 ELEV UG-GF P#2 P BENDING DETAILS.													
Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'
20 10M	950		950										
2 20M	1350		1350										
12 15M	4850		4850										
1004	38 10M	680	11		100		120	120	120		100	70	



NOTES

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

3. CONCRETE COVER:
VERTICALS

-- 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 (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

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 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 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.	IF = INSIDE FACE	THR/2 = THREAD LEND
DWL = DOWELS	LL = LOWER LAYER	THR/2 = THREAD ZENDS
EE = EACH END	MD = MIDDLE	UL = UPPER LAYER
EF = EACH FACE	MIN = MINIMUM	V/n = UNLESS NOTED
EJ = EXPANSION JOINT	NF = NEAR FACE	V = VERTICAL
ES = EACH SIDE	OC = ON CENTER	TT = TIE
EW = EACH WAY		

STRAIGHT BARS LABEL FORMAT		
7 B15M X 3600	7 B15M B1501	GRADES OF STEEL
QUANTITY	QUANTITY	B = GRADE 400W
SIZE	SIZE	C = EPOXY COATED
LENGTH	LENGTH	F = F600
		G = GALVANIZED
		S = STAINLESS
		W = WELDABLE

1			
2	REV PER FINAL ELEVATOR DWG'S & ADDED ZONE BARS	JUN/09/21	JU
1	FOR FAB.	MAY/05/21	JU
0	FOR APPROVAL	MAY/04/21	JU

ISSUE	REMARKS	DATE	BY

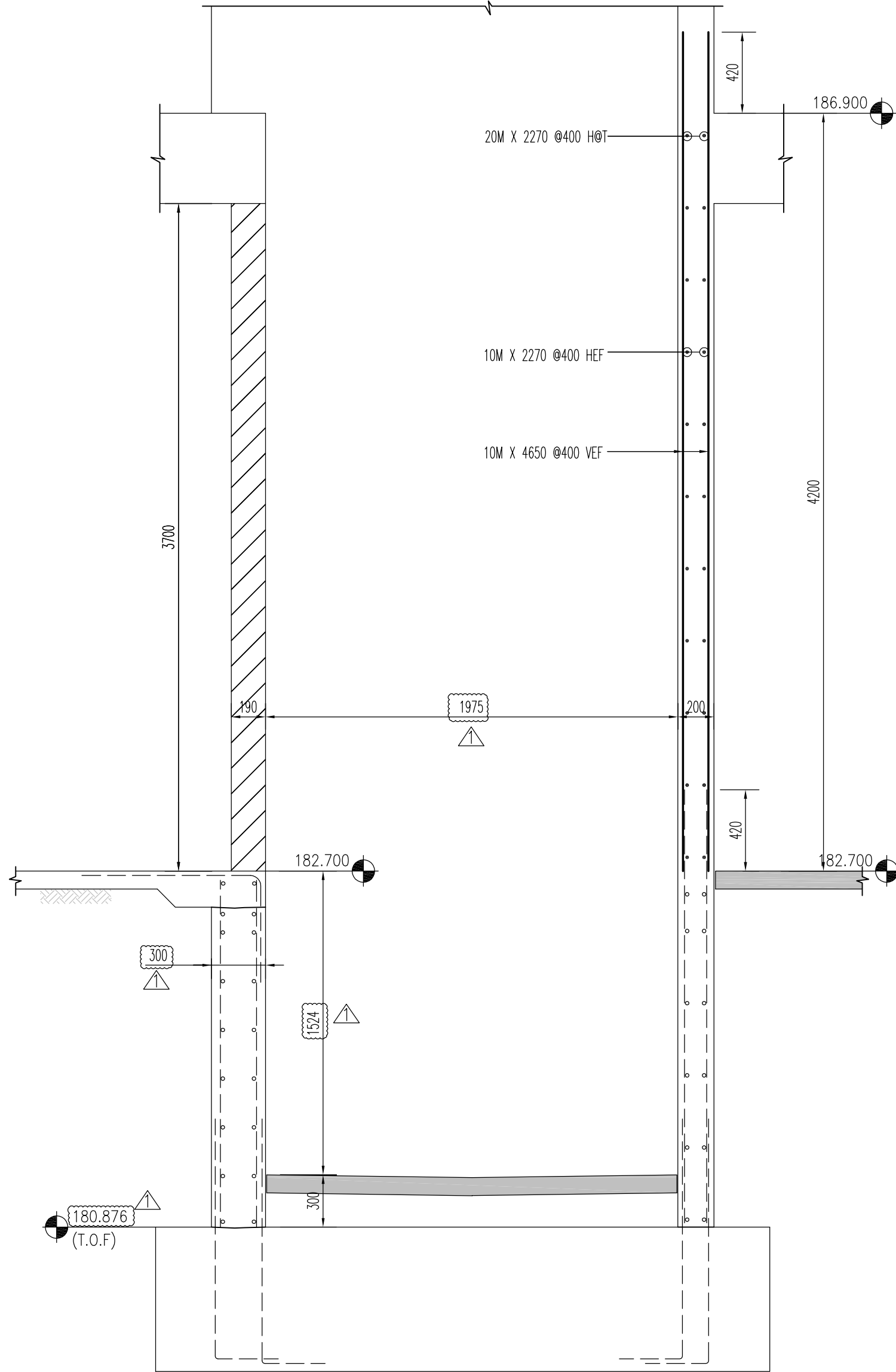
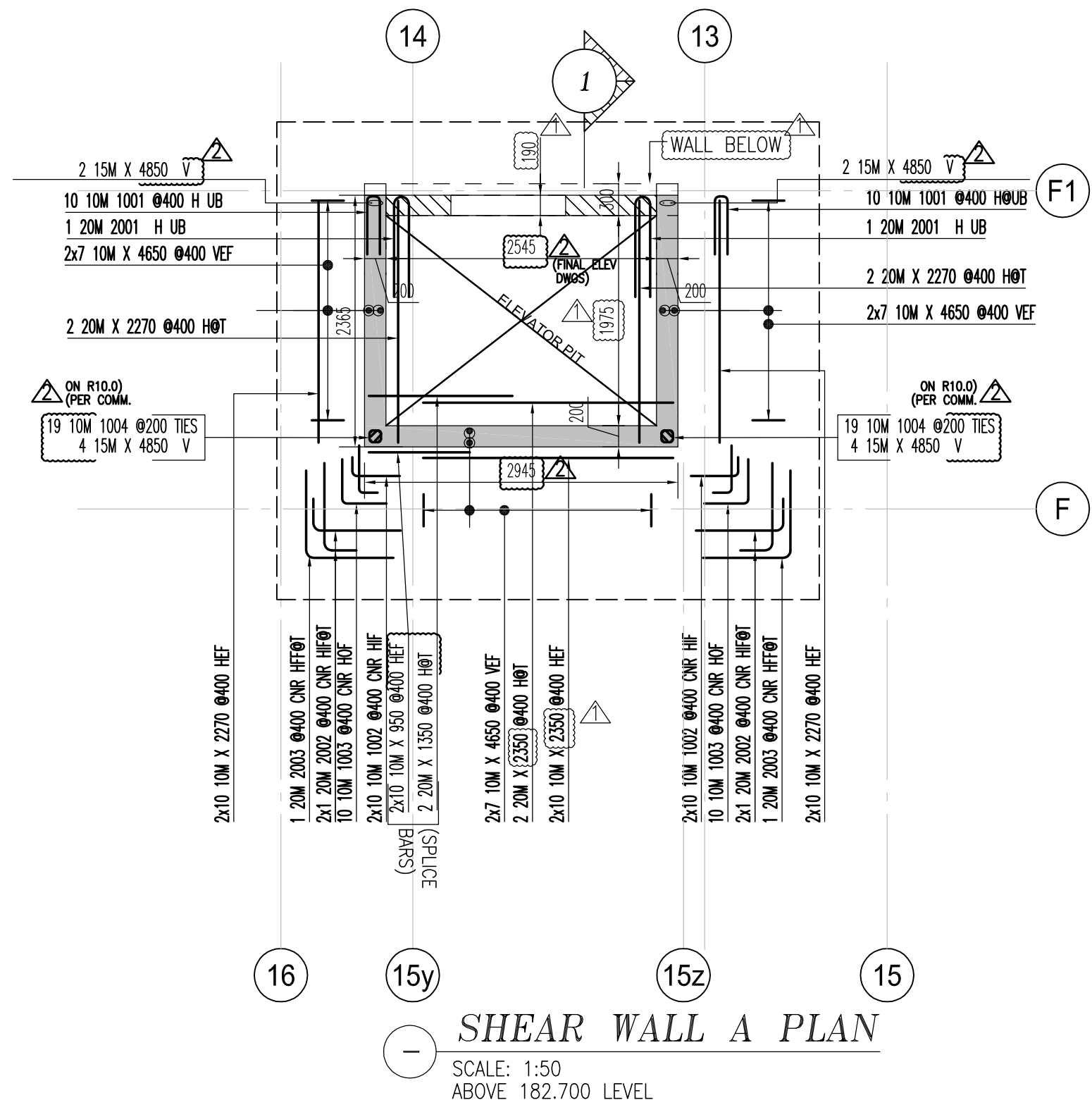
MANSTEEL REBAR
105 Industrial Road, Richmond Hill, Ontario L4C 2Y4 Canada
Phone: 905-737-9797
Fax: 905-737-9704
Email: info@mansteelrebar.com

PROJECT
FORESTSIDE TOWNHOUSES
-BRAMPTON, ON

PART OF STRUCTURE
ELEVATOR A SHEAR WALLS UG-GF -P#2

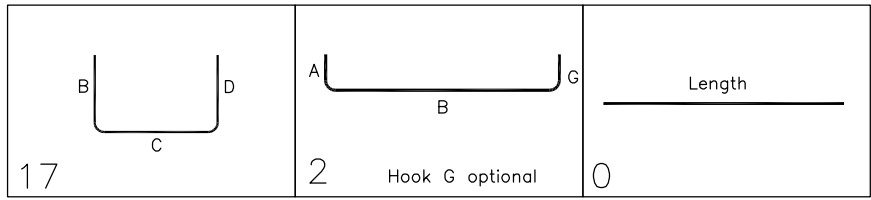
CUSTOMER : ROYAL PINE HOMES
Project no. 2177
SCALE: AS SHOWN
DRAWING No. R5.3

DETAILED BY: JU
CHECKED BY: _____
BAR LIST No. _____



Release Code: R5.4 ELEV SW UG-GF P#6 BENDING DETAILS.														
Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'	J'
	42	10M	4650			4650								
	20	10M	2350			2350								
	40	10M	2270			2270								
	4	20M	2270			2270								
	2	20M	2350			2350								
1001	20	10M	1230	17		550	130	550						
1003	20	10M	840	17		420	420							
1002	40	10M	630	2	180	450								
2002	4	20M	1140	2	310	830								
2003	2	20M	1660	17		830	830							
2001	2	20M	2060	17		950	160	950						

Release Code: R5.4 ELEV UG-GF P#6 BENDING DETAILS.														
Bar Mark	Qty	Size	Total length	Type	A'	B'	C'	D'	E'	F'	G'	H'	I'	J'
	2	20M	1350			1350								
	20	10M	950			950								
	12	15M	4850			4850								
1004	38	10M	680	11	100	120	120	120	120		100	70		



SECTION 1
SCALE: 1:25

NOTES

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

3. CONCRETE COVER:
VERTICALS

-- 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

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. 19066
BY AT
Date 15 Jun 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	LEGEND	LEGEND
ALT = ALTERNATE BOT = BOTTOM BIS = BEND INTO SLAB CB = CORNER BAR 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 GIO = GROUT 'N DOWELS H = HORIZONTAL IF = INSIDE FACE LL = LOWER LAYER MD = MIDDLE MIN = MINIMUM NF = NEAR FACE OC = ON CENTER TT = TEMPL. TIES	OF = OUTSIDE FACE SC = SAW CUT END STG = STAGGER STR = STRIPS T = TOP THR/2 = THREAD LEND THR/2 = THREAD ZENDS UL = UPPER LAYER V = VERTICAL W = WELDABLE

STRAIGHT BARS LABEL FORMAT	BENT BARS LABEL FORMAT	GRADES OF STEEL
7 B15M X 3600 QUANTITY SPACE LENGTH	7 B15M B1501 QUANTITY SPACE LENGTH BENT BAR WORK	B = GRADE 400W C = GRADE 500W E = GRADE 600W S = STAINLESS W = WELDABLE

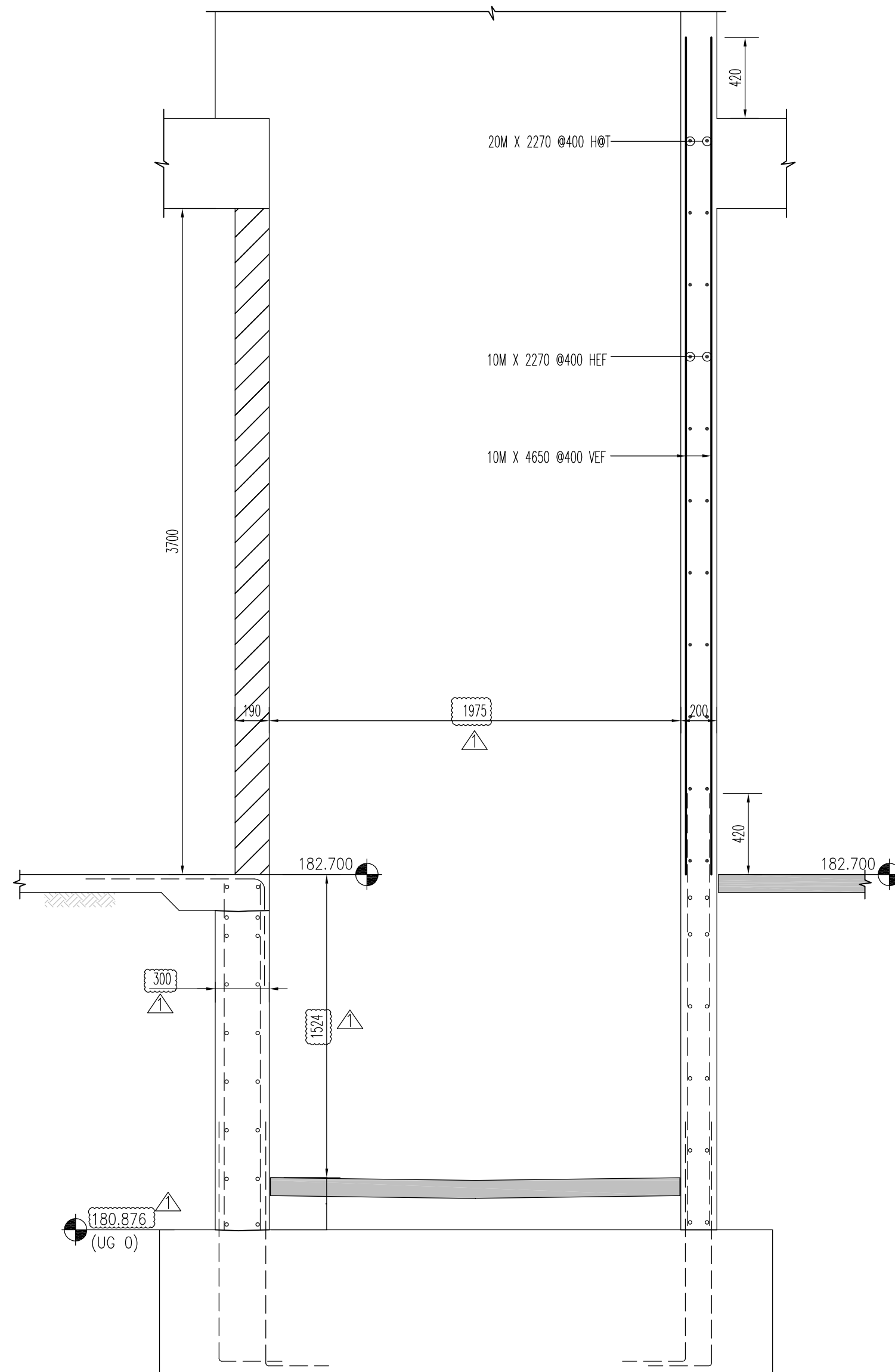
2	REV PER FINAL ELEVATOR DWG'S & ADDED ZONE BARS	JUN/09/21	JU
1	FOR FAB.	MAY/10/21	JU
0	FOR APPROVAL	MAY/06/21	JU
ISSUE	REMARKS	DATE	BY

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

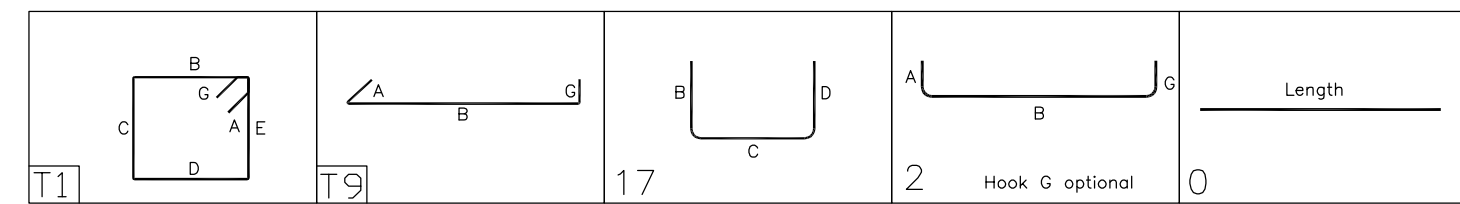
PART OF STRUCTURE
ELEVATOR B SHEAR WALLS UG-GF -P#6

CUSTOMER : ROYAL PINE HOMES	Project no. 2177 SCALE AS SHOWN DRAWING No. R5.4
DETAILED BY: JU CHECKED BY:	BAR LIST No. 2



Release Code: R5.5 ELEV SW UG-GF P# BENDING DETAILS.													
Bar Mark	Qty	Size	Total length	'a'	'b'	'c'	'd'	'e'	'f'	'g'	'h'	'i'	'j'
	42	10M	4650		4650								
	20	10M	2350			2350							
	40	10M	2270		2270								
	4	20M	2270		2270								
	2	20M	2350		2350								
1001	20	10M	1230 TT		550	130	550						
1003	20	10M	840 TT		420	420							
1002	40	10M	630 2	180		450							
2002	4	20M	1160 2	310	830								
2003	2	20M	1660 TT		830	830							
2001	2	20M	2060 TT		950	160	950						

Release Code: R5.5 ELEV UG-GF P#10 FRONT ELEV DETAILS.																
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'L'	'R'
	20	10M	950			950										
	2	20M	1350			1350										
	12	15M	4850			4850										
100%	38	10M	680	T1	100	120	120	120	120		100	70				



* 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

LG	= ALTERNATE	FF	= FAR FACE	SC	= OUTSIDE FACE
BOT	= BOTTOM	FS	= FORM SAW CUT END	SE	= SAW CUT END
END	= GO INTO END SLAB	GID	= GROUT IN DOWELS	STG	= STAGGER
CB	= CORNER BAR	H	= HORIZONTAL	STIR	= STIRRUPS
CJ	= CONTROL JOINT	IF	= INSIDE FACE	T	= TOP
STS	= GO TO SUIT SITE COND.	LL	= LOWER LAYER	THR1/2	= THREAD 1/2
DWL	= DOWELS	L	= LOWER FACE	THR2/2	= THREAD 2/2
E	= EACH END	MID	= MIDDLE	U/L	= UPPER LAYER
E	= 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	BENT BARS LABEL FORMAT	GRADES OF STEEL
 7 B15M X 3600 GRADE QUANTITY LENGTH	 7 B15M B1501 GRADE QUANTITY SIZE BAR MARK	GRADES OF STEEL B = GRADE 400R C = EPOXY COATED F = FRP G = GALVANIZED S = STAINLESS W = WELDABLE

△			
△			
2	REV PER FINAL ELEVATOR DWG'S & ADDED ZONE BARS	JUN/09/21	J
1	FOR FAB.	MAY/19/21	J
0	FOR APPROVAL	MAY/06/21	J

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

ELEVATOR C SHEAR WALLS UG-GF -P#10

CUSTOMER :	Project no. 2177
------------	------------------

ROYAL PINE HOMES	SCALE: AS SHOWN
	DRAWING No.

DETAILED BY: JU	BAR LIST No.	R5.5	
CHECKED BY:			

NOTES

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

- 3, CONCRETE COVER:
VERTICALS

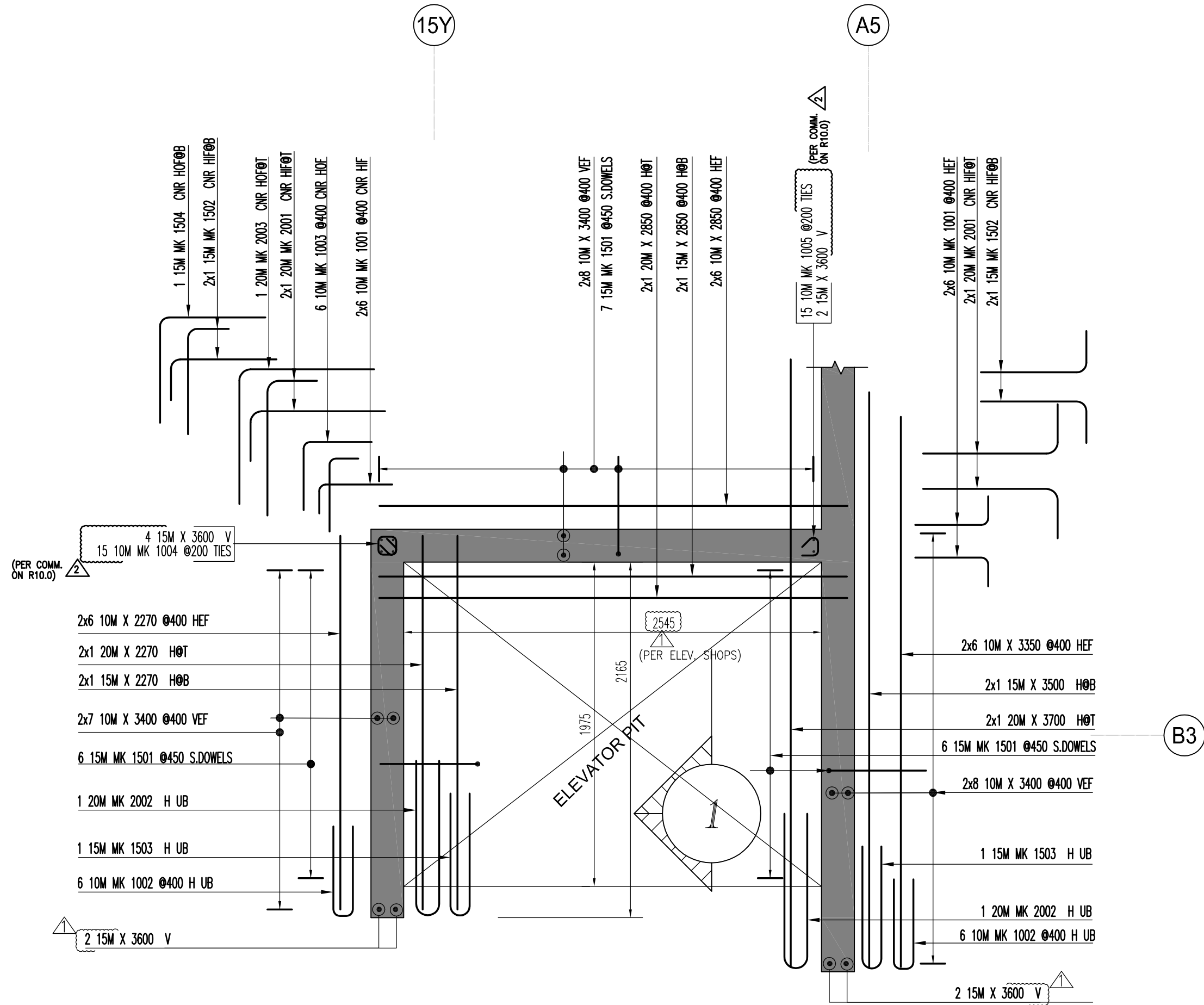
-- 30mm

- #### 4, COMPRESSION LAP SPLICE

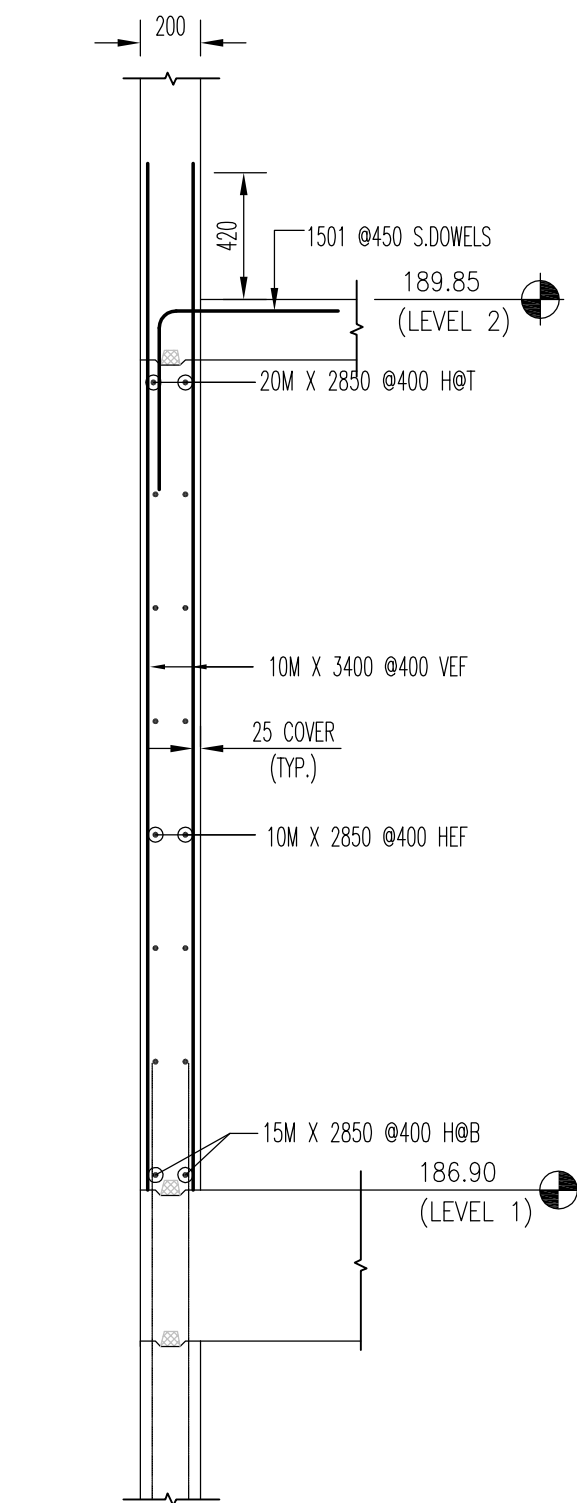
BAR SIZE	STANDARD LAP (mm)
10M	300
15M	440
20M	590
25M	730
30M	880
35M	1030

5. TENSION LAP SPLICE (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



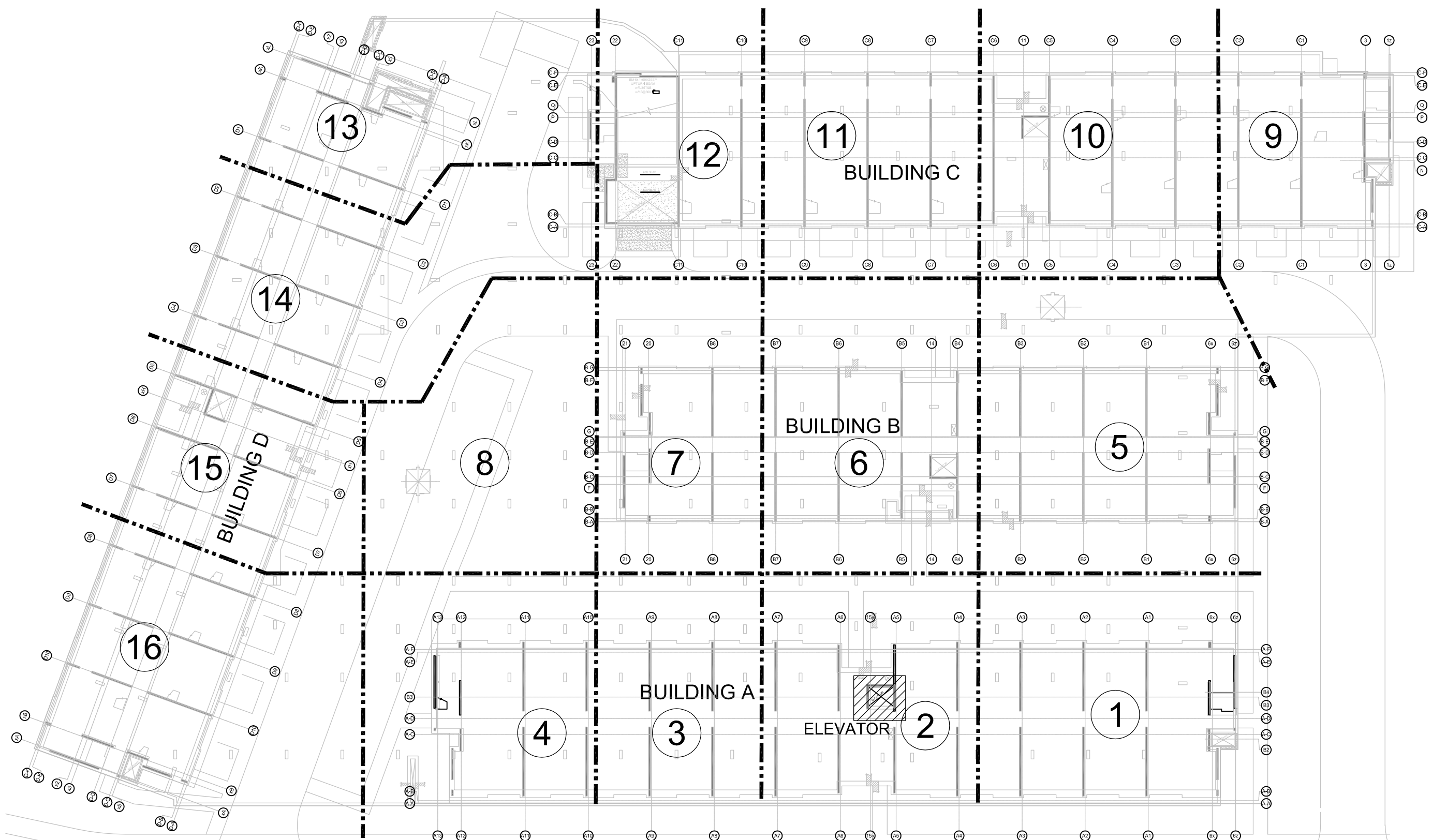
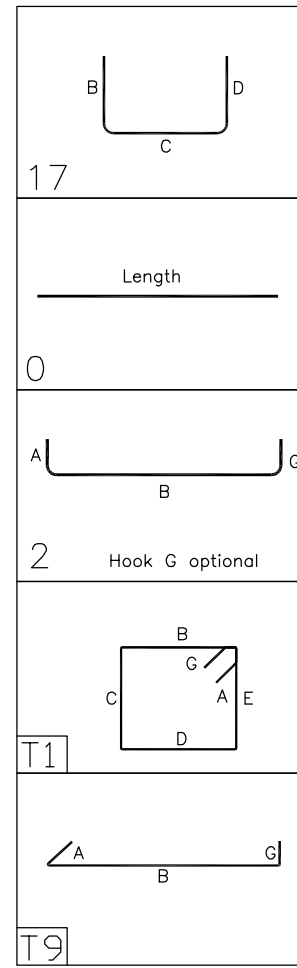
BUILDING-A
ELEVATOR WALL PLAN L1-L2
SCALE: 1:25
(POUR-2)



SECTION 1
SCALE: 1:25

Release Code: R7.3 ELEV SW L1-L2 P#2 BENDING DETAILS.														
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'
12 10M	2270		2270			2270								
4 6 10M	3400		3400			3400								
12 10M	2850		2850			2850								
2 20M	2850		2850			2850								
2 15M	2850		2850			2850								
2 15M	2270		2270			2270								
2 20M	2270		2270			2270								
2 15M	3500		3500			3500								
2 20M	3700		3700			3700								
12 10M	3350		3350			3350								
4 15M	3600		3600			3600								
1003	6 10M	840	17			420								
1001	24 10M	630	17		180	450								
1002	12 10M	1230	17			550	130	550						
2003	1 20M	1660	17			830	830							
1501	19 15M	1200	17			600	600							
1503	2 15M	1630	17			750	130	750						
2002	2 20M	2060	17			950	160	950						
1504	1 15M	1300	17			650	650							
2001	4 20M	1140	2			310	830							
1502	4 15M	910	2			260	650							

Release Code: R7.3 ELEV L1-L2 P#2 PABENDING DETAILS.														
Bar Mark	Qty	Size	Total length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'
1005	15 10M	320	19		100	120					100			
1004	15 10M	680	11		100	120	120	120	120		100	70		



KEY PLAN
SCALE: NTS

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

-- 25mm

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.d
10M	490	380	450	350	420
15M	740	570	670	520	620
20M	980	750	890	690	830
25M	1530	1170	1390	1070	1290
30M	1830	1410	1670	1290	1550
35M	2130	1640	1950	1500	1800

* 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	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
CS = CONTROL JOINT	IF = INSIDE FACE	T = TOP
CUT TO CUT SITE COND.	LL = LOWER LAYER	THR/1 = THREAD LEND
DWL = DOWELS	ML = 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 = TIE
ES = EACH SIDE		
EW = EACH WAY		

STRAIGHT BARS LABEL FORMAT

7 B15M X 3600
QUANTITY

BENT BARS LABEL FORMAT

7 B15M B1501
QUANTITY

GRADES OF STEEL

B = GRADE 400W
C = C50K COATED
F = F600
G = GALVANIZED
S = STAINLESS
W = WELDABLE

ISSUE	REMARKS	DATE	BY
2	REV PER COMM. ON R10.0 (ADDED ZONE BARS)	JUN/09/21	JU
1	REV. PER COMM. & FINAL ELEV. SHOPS - FOR FAB.	MAY/31/21	JU
0	FOR APPROVAL	MAY/19/21	JU

MANSTEEL REBAR

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

FORESTSIDE TOWNHOUSES -BRAMPTON, ON

ELEVATOR SHEAR WALLS L1-L2 P#2

CUSTOMER : ROYAL PINE HOMES

Project no. 2177

SCALE: AS SHOWN

DRAWING No. R7.3

Detailed By: JU

Bar List No.

Checked By: