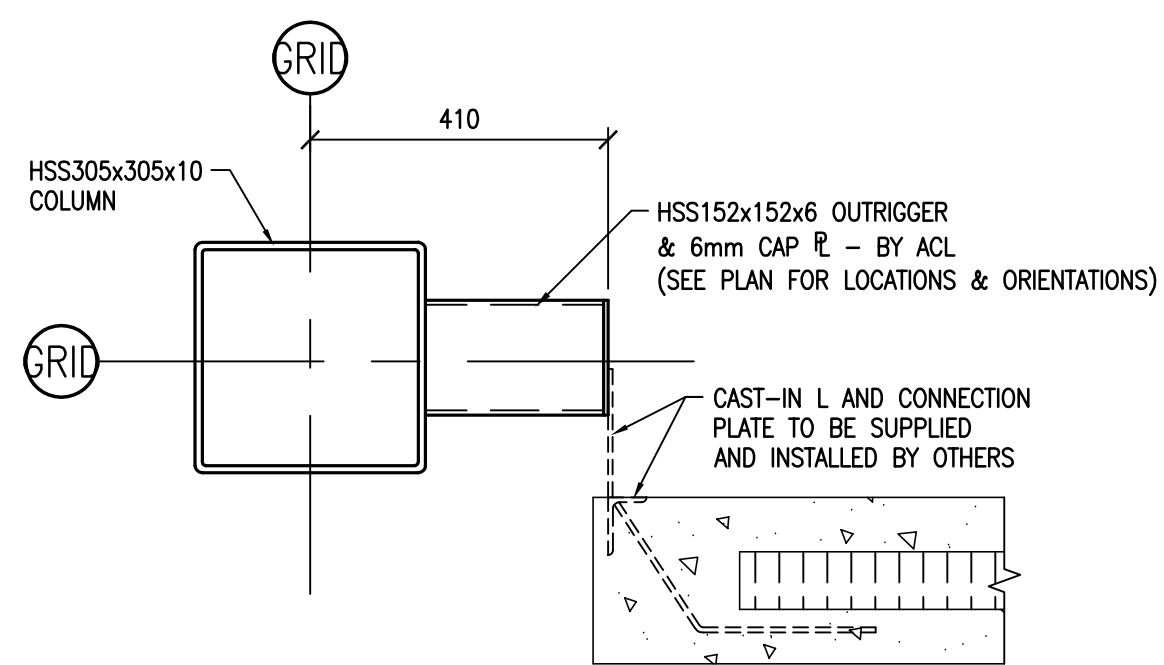


ANCHOR ROD SETTING PLAN

- FINISHED GROUND SHALL BE TAKEN AS ELEV. 0.000
- UNDERSIDE OF ALL EXTERIOR COLUMN BASE PLATES SHALL BE SET AT -410mm BELOW FINISHED FLOOR TYPICALLY U/N ON PLAN
- UNDERSIDE OF ALL INTERIOR COLUMN BASE PLATES SHALL BE SET AT -210mm BELOW FINISHED FLOOR TYPICALLY U/N ON PLAN

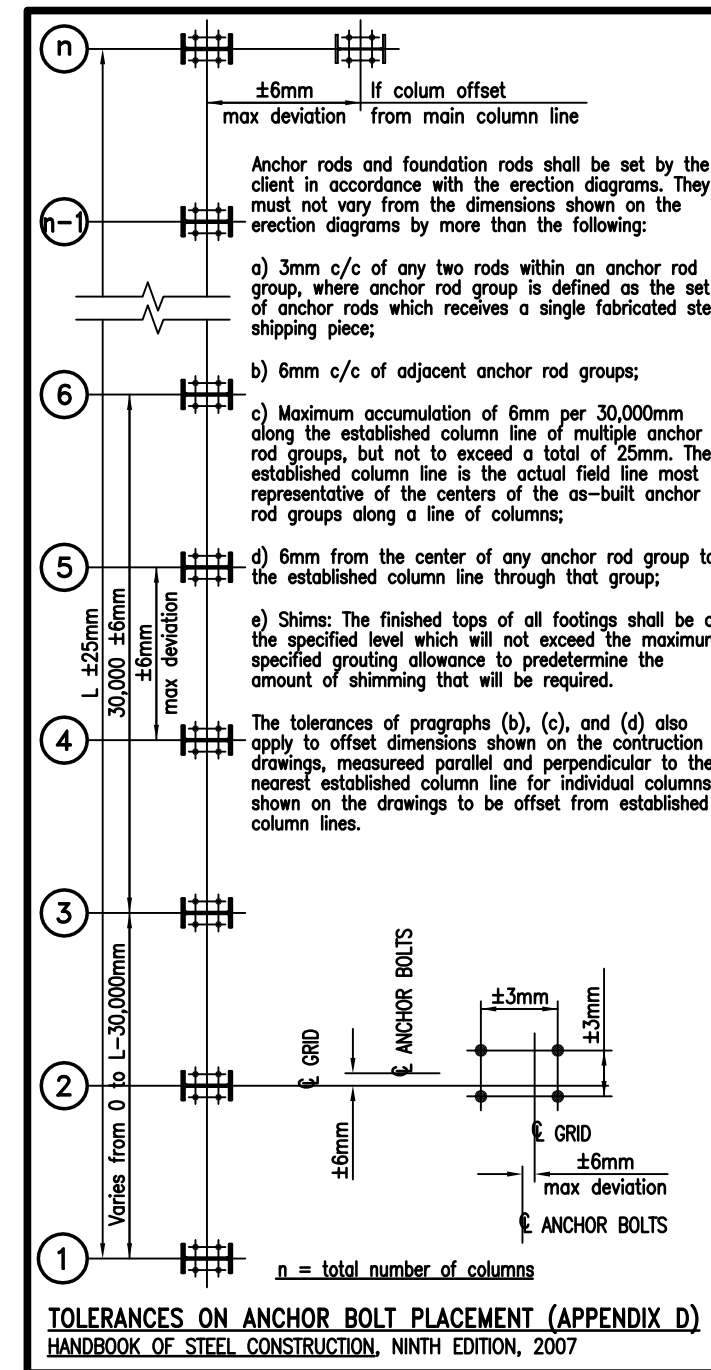
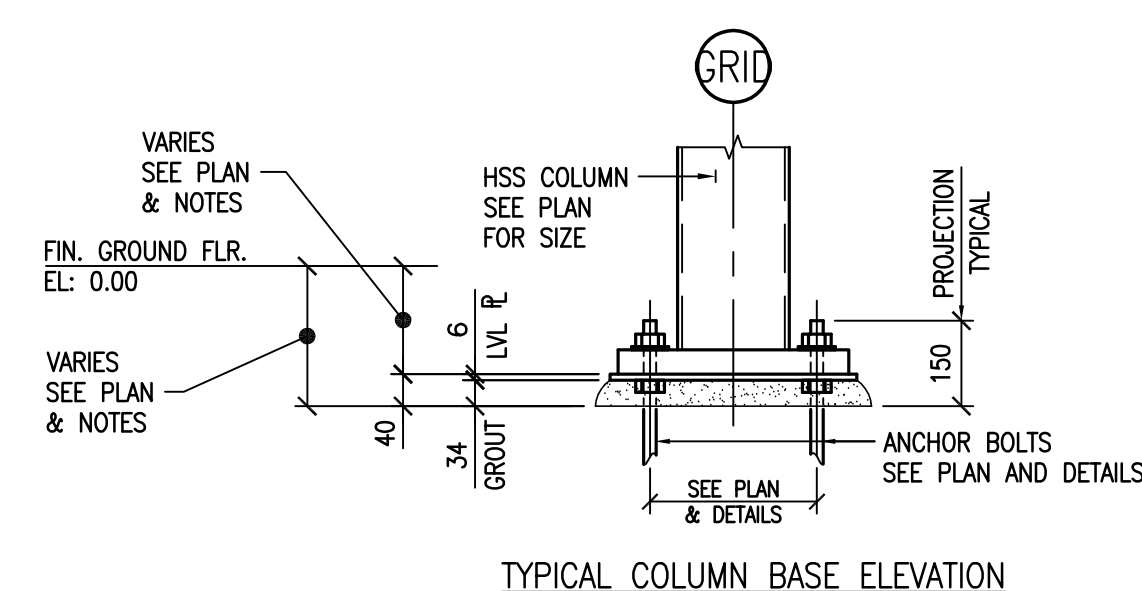
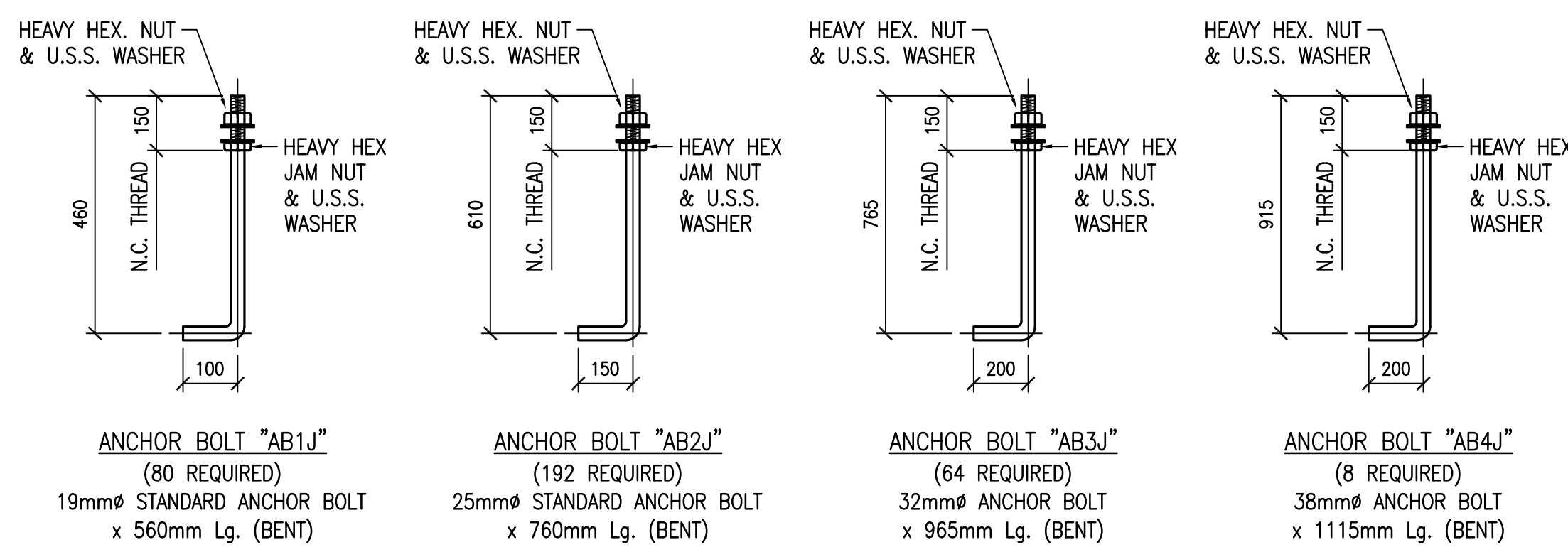
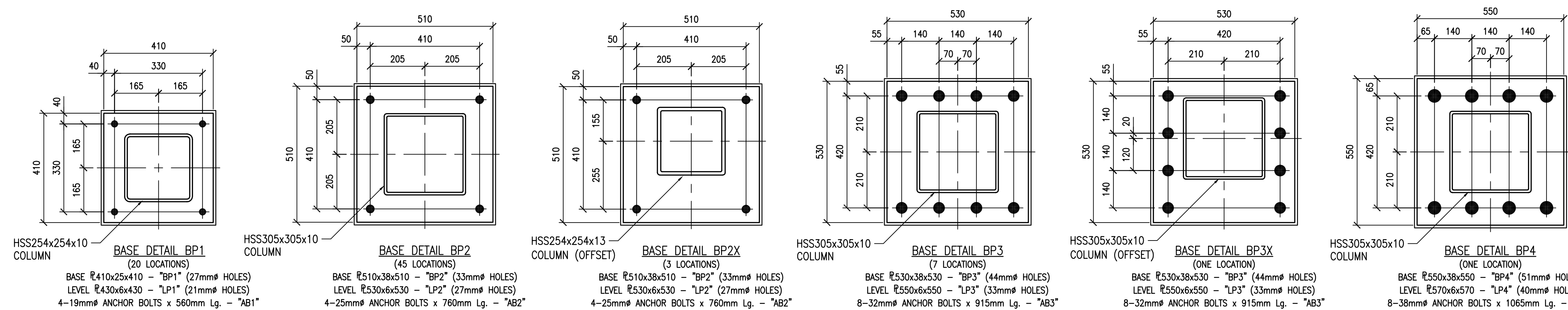


"ANTI-BOWING" PRECAST SUPPORT DETAIL

HSS OUTRIGGERS TYPICAL @ THE FOLLOWING ELEVATIONS:

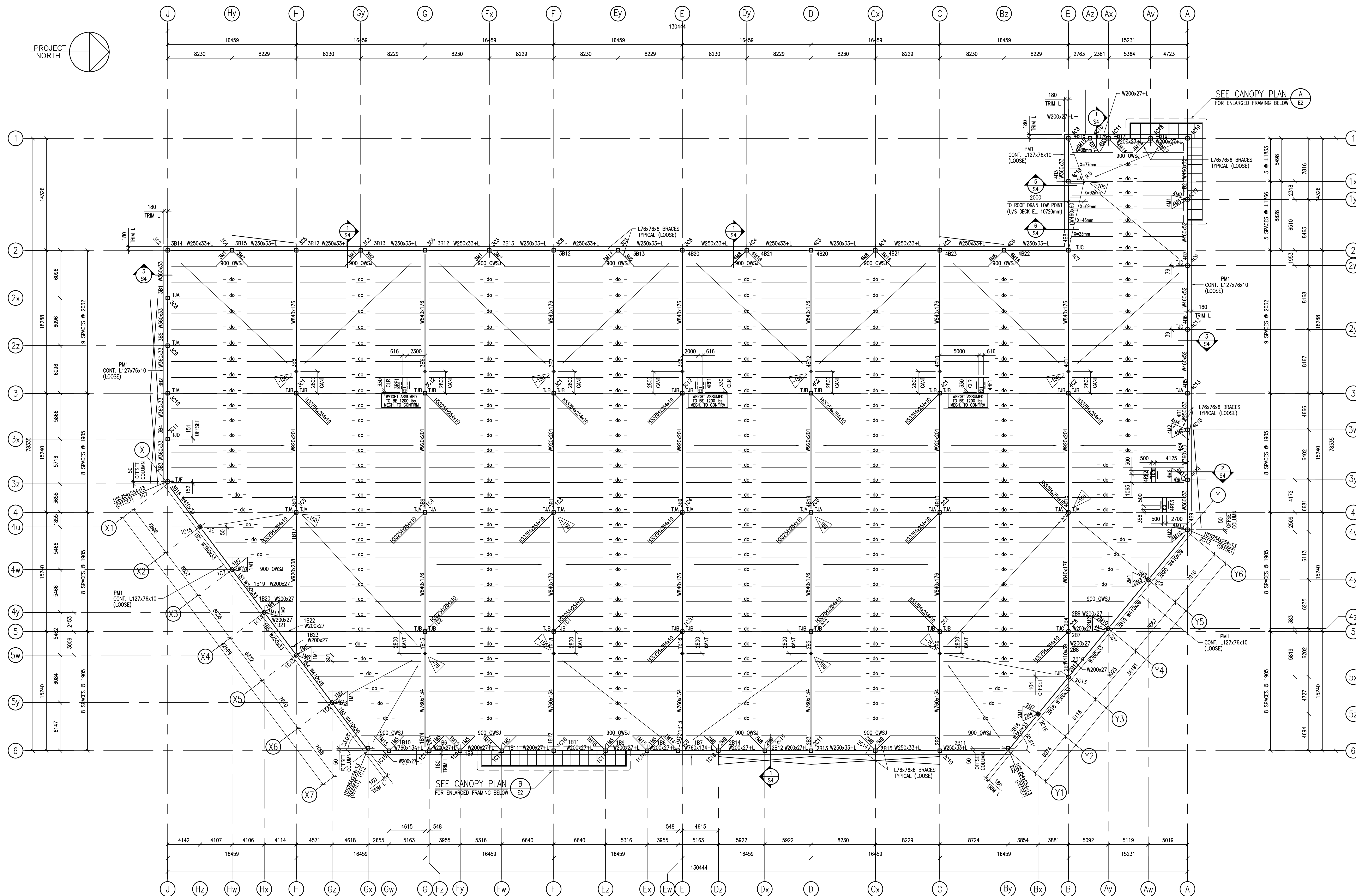
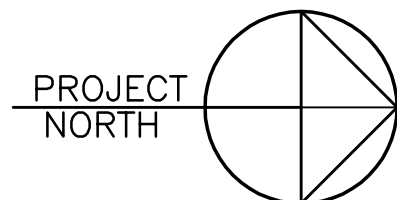
691mm, 3691mm, 5691mm, 7691mm

(ALL REFERENCE ELEVATIONS ARE TO TOP OF HSS)



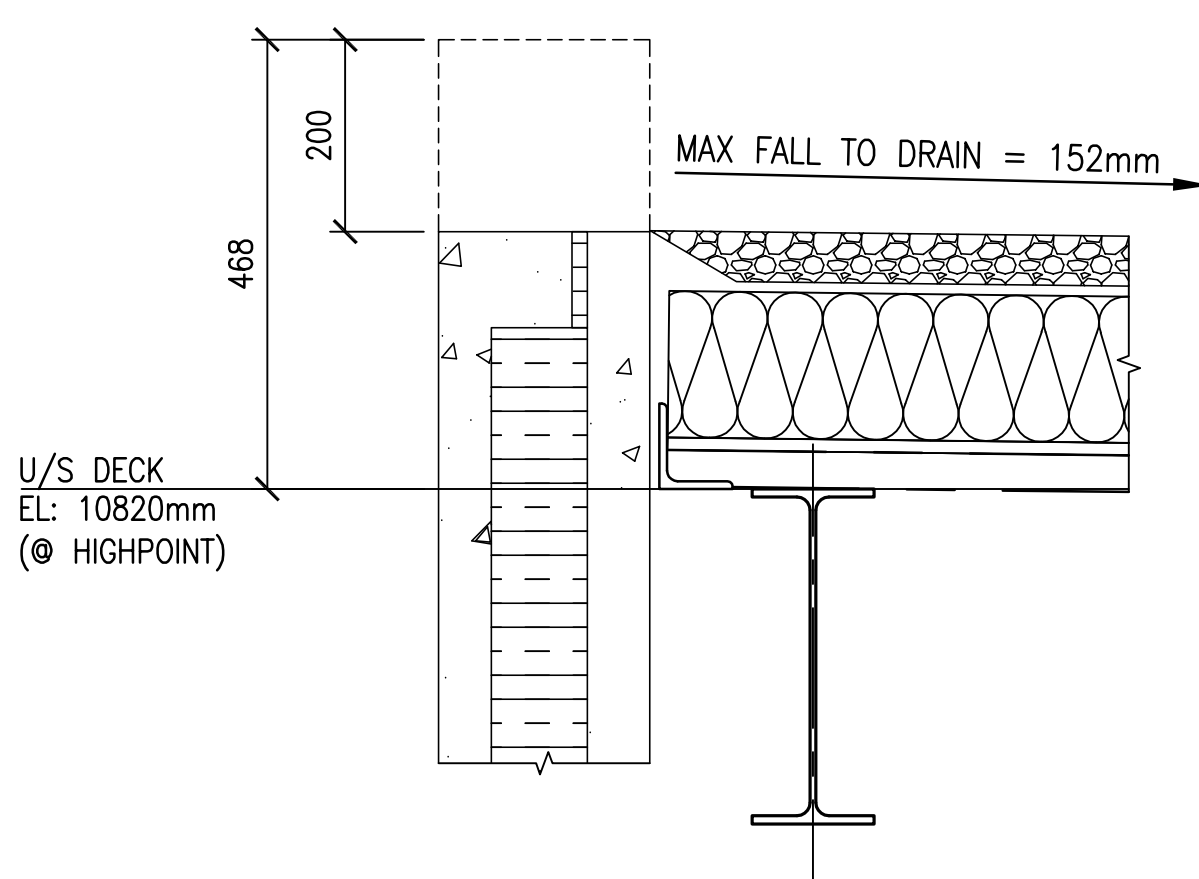
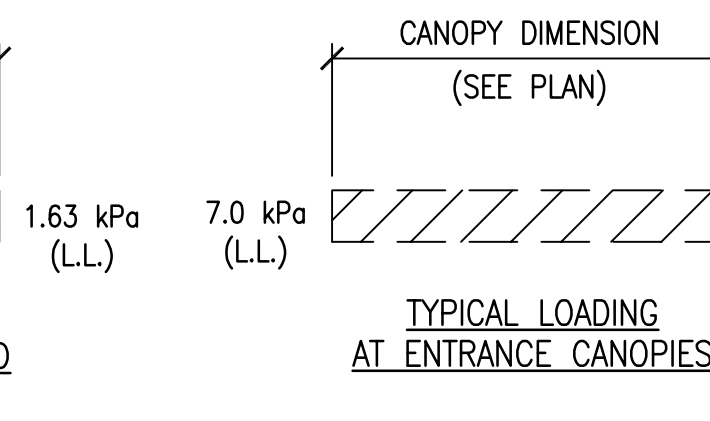
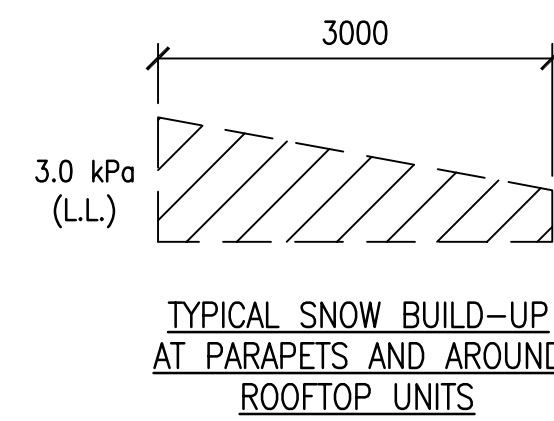
ISSUED  
JULY 31, 2017  
ACL STEEL LTD.

PROJECT:		8300 PARKHILL BLDG 2	
CUSTOMER:		BROCCOLINI CONSTRUCTION	
ARCHITECT:		WARE MALCOLM	
ENGINEER:		MTE CONSULTANTS INC. & ACL STEEL	
CAD FILE:		P:\2000\2729	
DRN BY:	T.C.	CHKD BY:	C.T.
SCALE:	1:200	DATE:	JUNE, 2017
2729		S1	

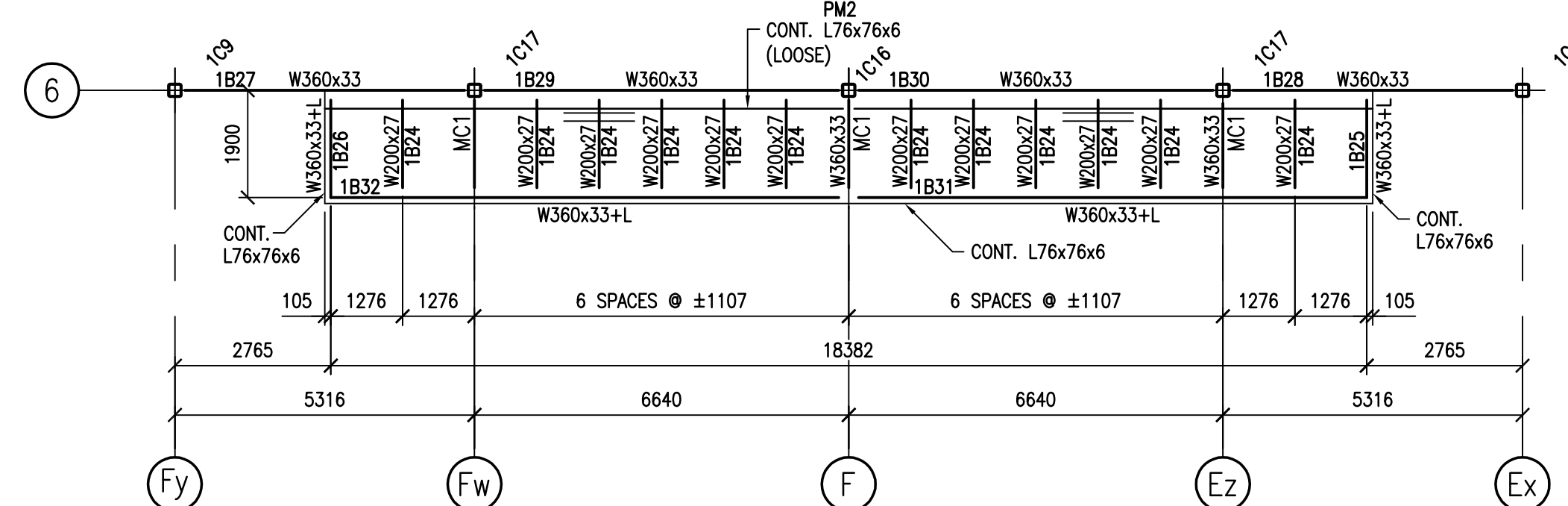


### ROOF FRAMING PLAN

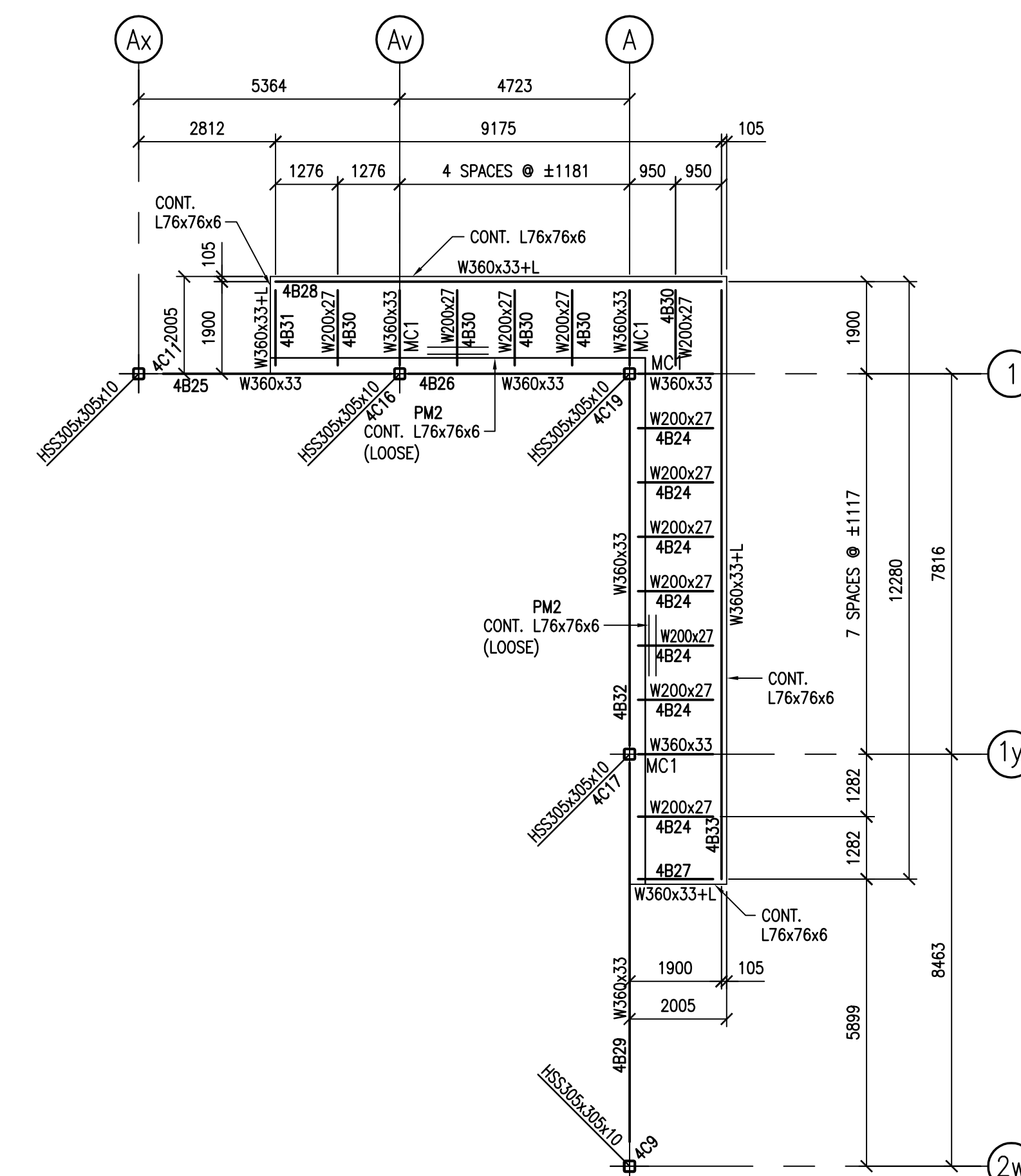
- TOP OF JOISTS (U/S STEEL DECK) IS AT EL: 10820mm U/N ON PLAN THUS <X>
- TOP OF BEAMS SUPPORTING JOISTS SHALL BE 127mm BELOW U/S DECK
- TOP OF BEAMS NOT SUPPORTING JOISTS SHALL BE FLUSH WITH U/S DECK U/N THUS <Y>
- ALL JOISTS SHALL BE 900mm DEEP OWSI WITH 127mm DEEP BOLTED SHOES
- ALL COLUMNS SHALL BE HSS305X305X10 U/N ON PLAN
- T&F: JOIST SUPPLIER REFER TO AISC STEEL STANDARD JOIST CONNECTION FOR SPECIFIC GEOMETRY
- THE BOTTOM CHORD CONNECTED WITH LOOSE FIELD WELDED THE MATERIAL (SUPPLIED BY JOIST MANUFACTURER)
- FOR JOIST AND BRIDGING DETAILS SEE JOIST DRAWINGS



TYPICAL SCUPPER DETAIL



ENLARGED CANOPY PLAN (A)  
T.O.S. ELEVATION: 3534mm  
MC1 TO BE CONNECTED FOR 150kN/m



ENLARGED CANOPY PLAN (B)  
T.O.S. ELEVATION: 3534mm  
MC1 TO BE CONNECTED FOR 150kN/m

BOLT LENGTHS FOR VARIOUS THICKNESS					
ASTM A325 and A490					
Material Thickness		BOLT DIAMETER - inches			
mm	inches	3/4"	1/2"	5/8"	1"
13	1/2				
14	5/16				
16	3/8	1 3/4	1 1/2		2
17	1/2			1 3/4	
19	3/4				
21	15/16				
22	1				
24	1 1/8	2	1 3/4		2 1/4
25	1				
27	1 1/8			2	
29	1 1/4				
30	1 1/2	2 1/4	2		2 1/2
32	1 3/4				
33	1 5/8				
35	1 7/8			2 1/4	
37	1 7/8	2 1/2	2 1/4		2 3/4
38	1 1/2				
40	1 5/8			2 1/2	
41	1 5/8				
43	1 11/16	2 3/4	2 1/2		3
44	1 3/4				
46	1 5/8			2 3/4	
48	1 7/8				
49	1 5/8	3	2 3/4		3 1/4
51	2				
52	2 1/8			3	
54	2 1/4				
56	2 3/8	3 1/4	3		3 1/2
57	2 1/2				
59	2 5/8			3 1/4	
60	2 5/8				
62	2 7/8	3 1/2	3 1/4		3 3/4
64	2 1/2				
65	2 5/8			3 1/2	
67	2 5/8	3 3/4	3 1/2		4
68	2 11/16				

Bolt Length is for TOTAL corrected material thickness  
Incident for the use of 1 T&F washer per bolt.  
Additional washers to be added to  
corrected material thickness.  
Table shows for the use of bolt lengths such that the end of the bolt will  
be flush with or outside the face of the nut when completely installed.  
CAN/CSA-S16-01:2014

ISSUED  
JULY 31, 2017  
ACL STEEL LTD.

PIECESMARKS ADDED & ISSUED FOR CONSTRUCTION	JULY 31, 2017
REVISED TO SUIT APPROVAL	MAY 8, 2017
ISSUED FOR BUILDING PERMIT APPLICATION	APRIL 7, 2017
REVISIONS	DATE

**ACL Steel**  
2255 Shirley Drive  
Richmond, Ontario, Canada, N9B 3Y4  
Phone: (519) 868-8822 Fax: (519) 868-4331  
www.aclsteel.ca

DRAFTING  
ENGINEERING  
DESIGN BUILDERS

**STEEL**  
LTD.

### ROOF FRAMING PLAN

PROJECT:  
**8300 PARKHILL BLDG 2**

CUSTOMER: BROCCOLINI CONSTRUCTION  
ARCHITECT: WARE MALCOLM  
ENGINEER: MTE CONSULTANTS INC. & ACL STEEL  
CAD FILE: P:\2000\2727

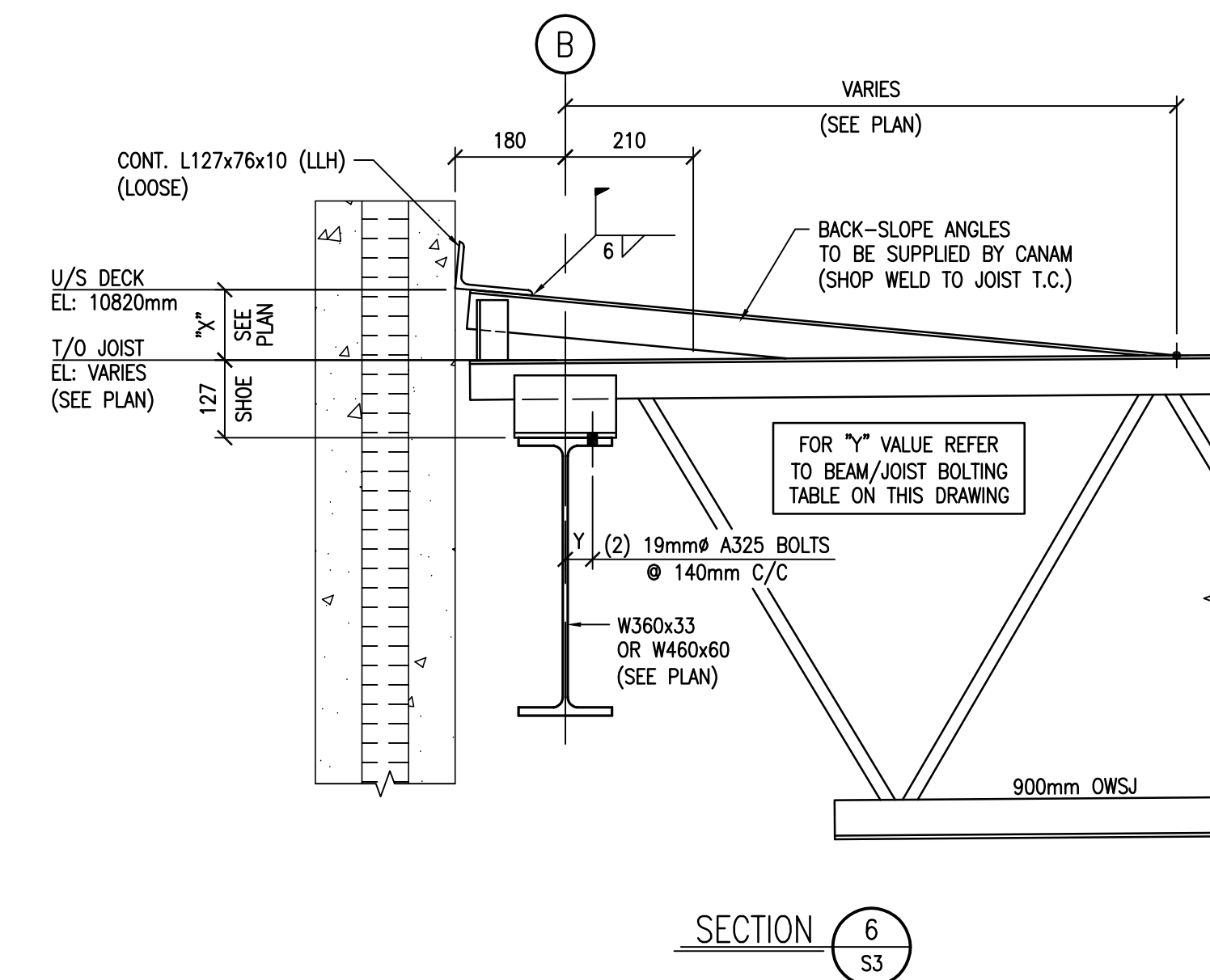
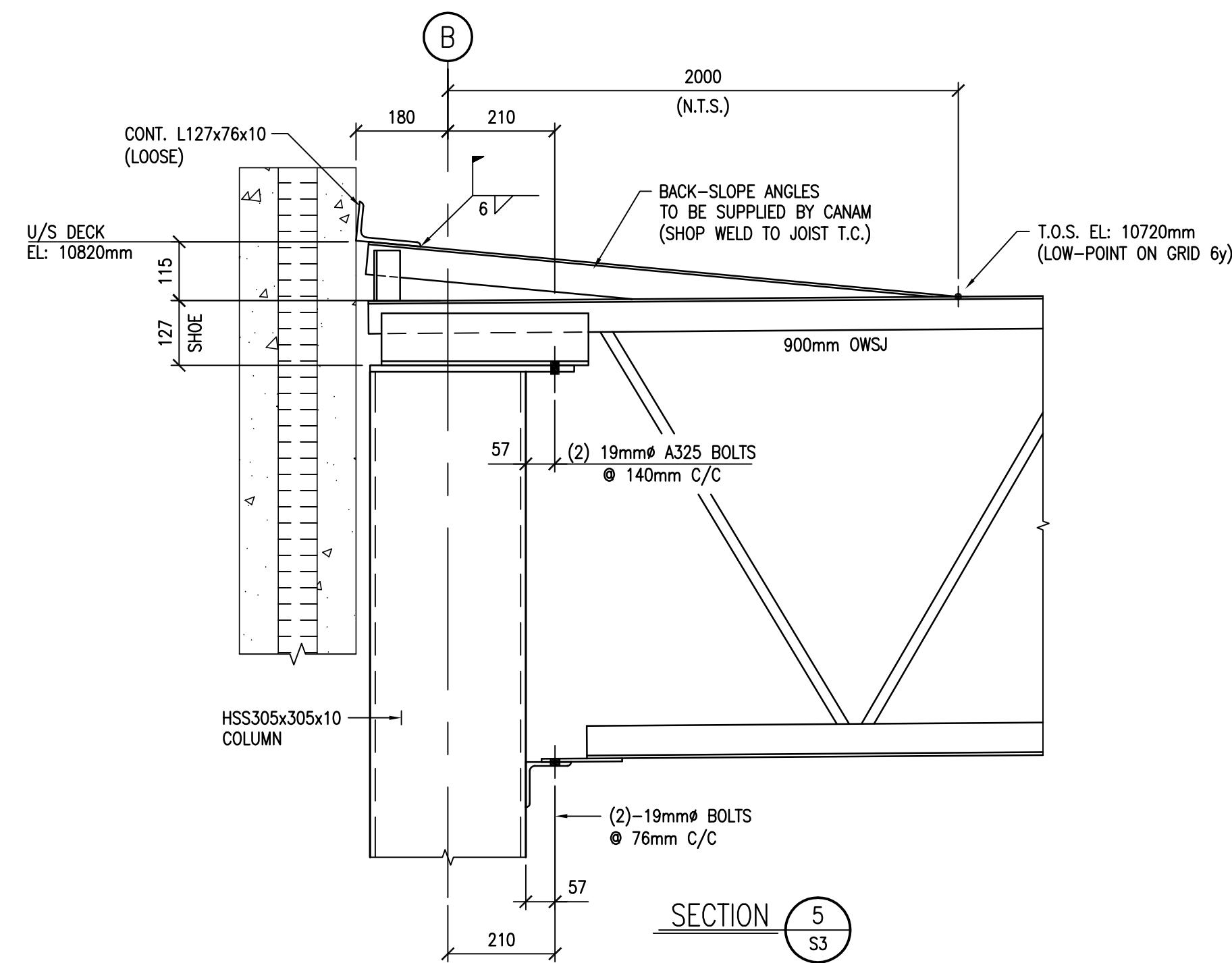
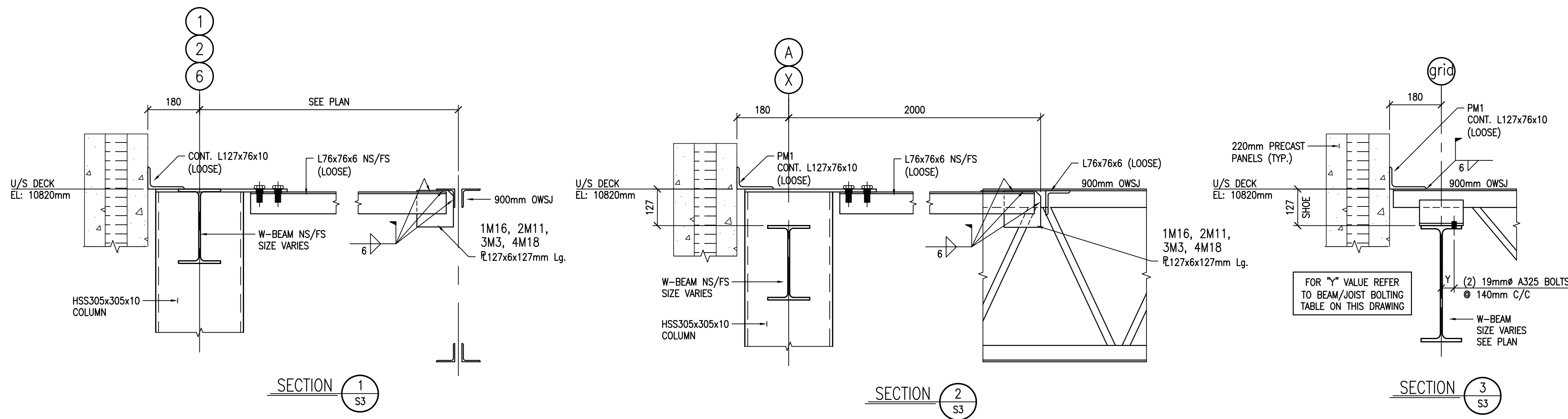
DRN BY: T.C. CHKD BY: C.T.  
SCALE: 1:200 DATE: JUNE, 2017

2729

S2







PIECESMARKS ADDED & ISSUED FOR CONSTRUCTION	JULY 31, 2017
REVISED TO SUIT APPROVAL	MAY 8, 2017
ISSUED FOR BUILDING PERMIT APPLICATION	APRIL 7, 2017
NO. REVISIONS	DATE
<b>ACL Steel</b> 2255 Shirley Drive Richmond, Ontario, Canada, N9B 3Y4 Phone: (519) 868-8331 Fax: (519) 868-8331 www.aclsteel.ca	
DRAFTING ENGINEERING DESIGN BUILDERS	
<b>SECTIONS &amp; DETAILS</b>	
PROJECT: <b>8400 PARKHILL BLDG 1</b> KITCHENER ONTARIO	
CUSTOMER: BROCCOLINI CONSTRUCTION	
ARCHITECT: WARE MALCOMB	
ENGINEER: MTE CONSULTANTS INC. & ACL STEEL	
CAD FILE: P:\2000\2727	
DRN BY: T.C.	CHKD BY: C.T.
SCALE: 1:10	DATE: FEB, 2017
2729	S4

ISSUED  
JULY 31, 2017  
ACL STEEL LTD.