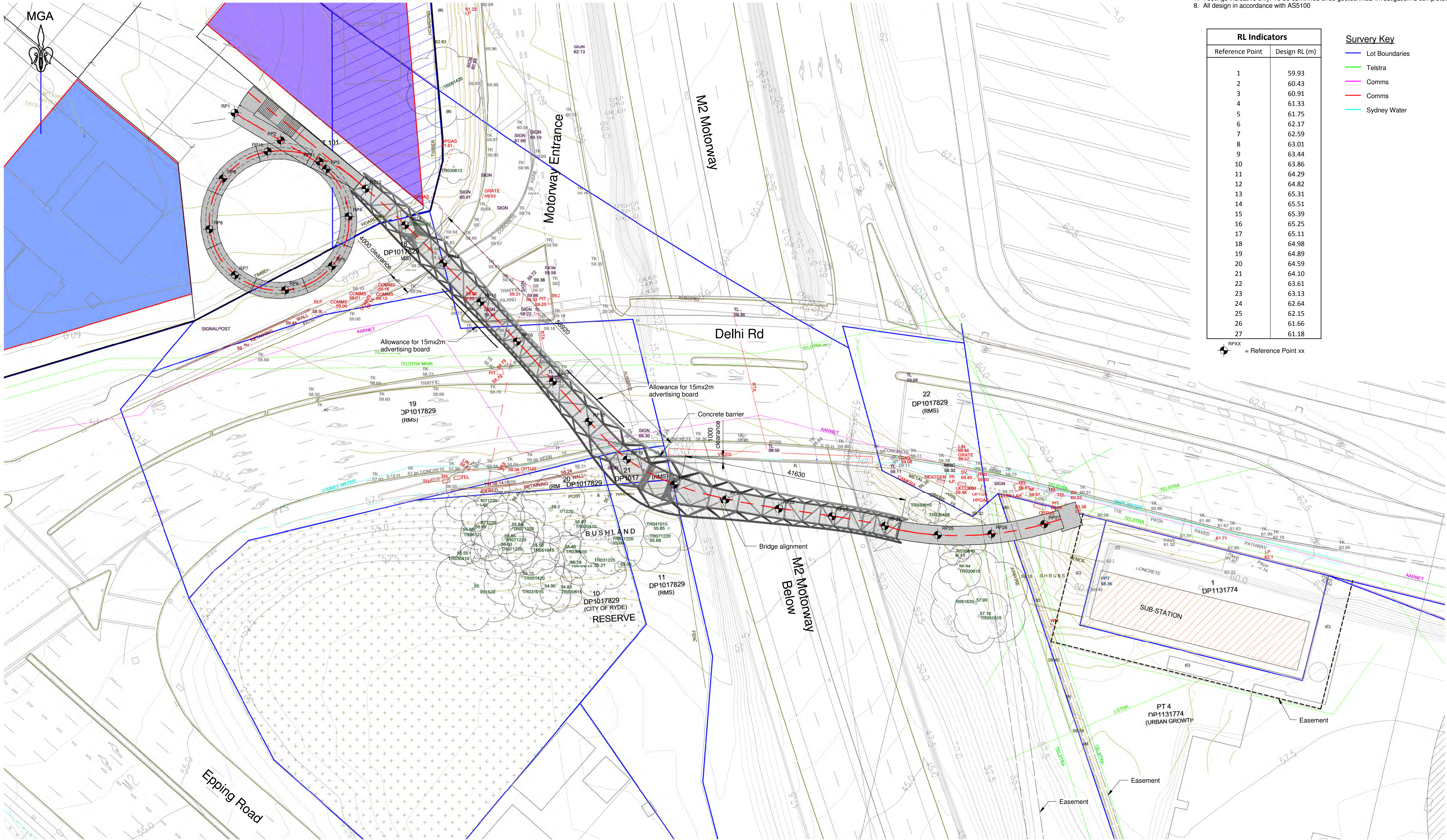




- Notes:**
1. Road Clearances = 5.5m from top of road surface to underside of bridge.
 2. Columns located to comply with AusRoads.
 3. Maximum Gradient = 1:20.
 4. Trafficable deck width = 3m clear between handrails.
 5. Allowance for 2x Advertising hoards – 2m high x 15m wide. Locations as shown.
 6. Allowance for additional trunk services - max 100kg/ linear metre.
 7. Footings indicative only. To be confirmed once geotechnical investigation is complete.
 8. All design in accordance with ASS100

RL Indicators	
Reference Point	Design RL (m)
1	59.93
2	60.43
3	60.91
4	61.33
5	61.75
6	62.17
7	62.59
8	63.01
9	63.44
10	63.86
11	64.29
12	64.82
13	65.31
14	65.51
15	65.39
16	65.25
17	65.11
18	64.98
19	64.89
20	64.59
21	64.10
22	63.61
23	63.13
24	62.64
25	62.15
26	61.66
27	61.18

- Survey Key**
- Lot Boundaries
 - Telstra
 - Comms
 - Comms
 - Sydney Water

RPXX = Reference Point xx

P4	21/05/14	CDM	XN	AJ
Concept Design				
Issue	Date	By	Chkd	Appd

P3	16/05/14	ML	XN	AJ
Concept Design				
P2	12/05/14	ML	XN	AJ
Preliminary				
P1	09/05/14	JM	XN	AJ
Preliminary				
Issue	Date	By	Chkd	Appd



Job Title
North Ryde Station Precinct
M2 Site
State Significant
Development
Pedestrian and Cycle
Bridge

Site Plan

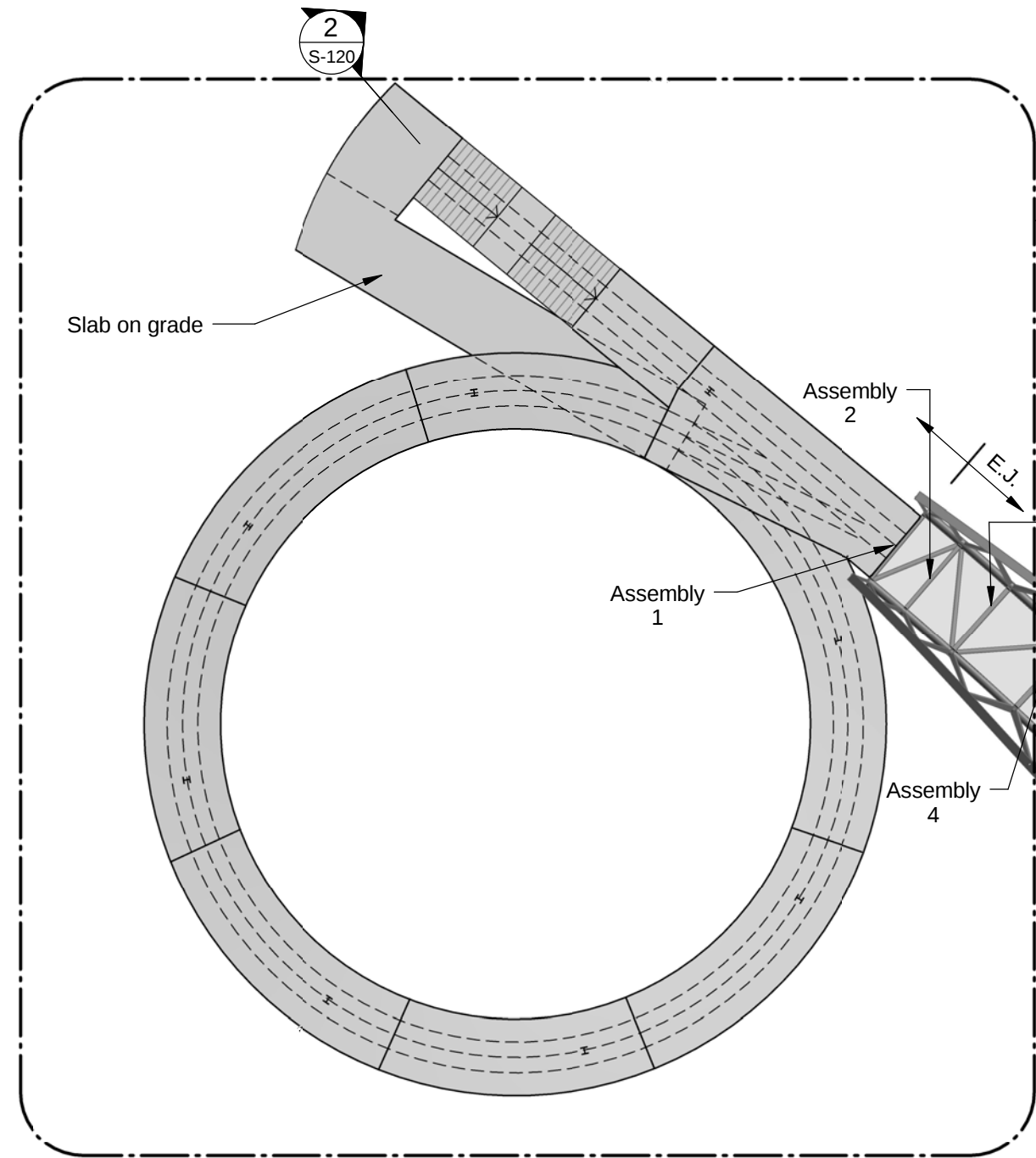
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Discipline Structural

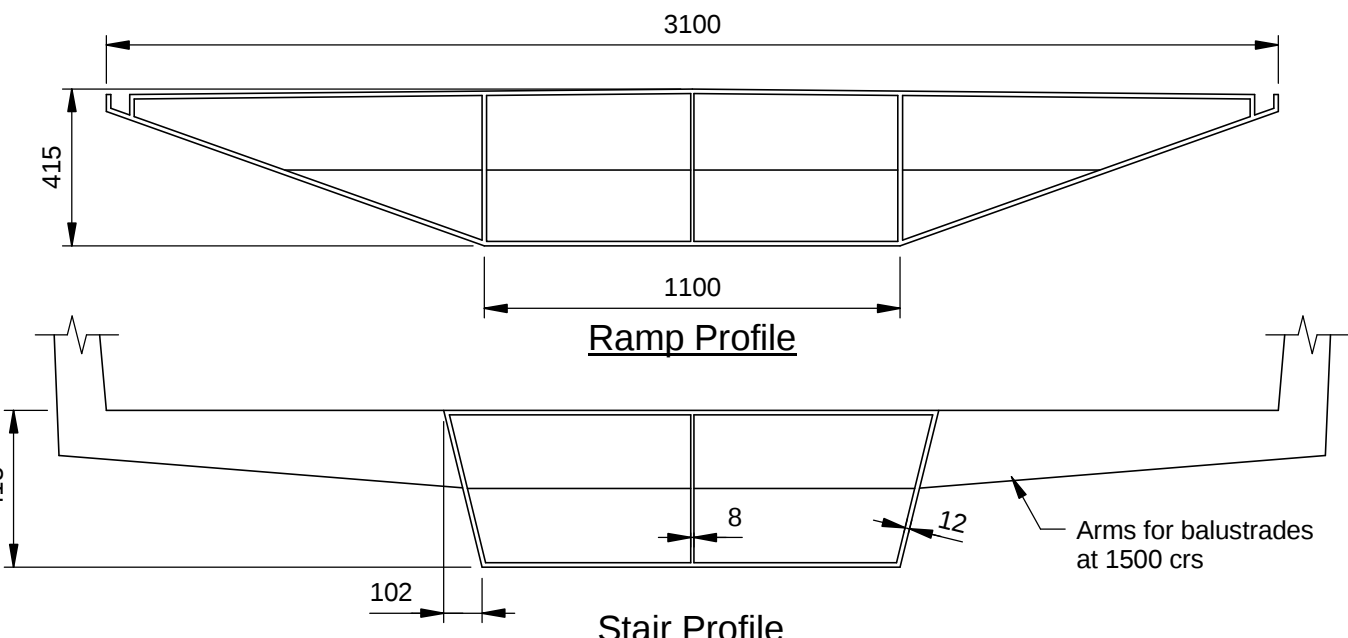
Job No
234008
Drawing No
S-110

Drawing Status
Concept

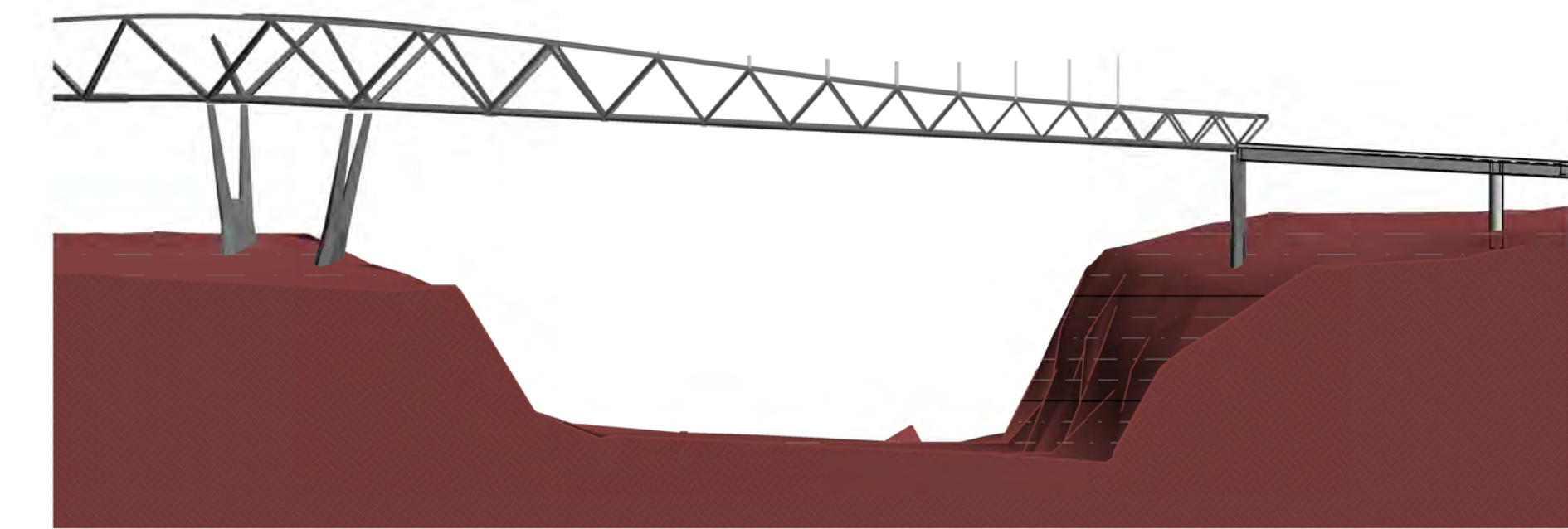
Issue
P4



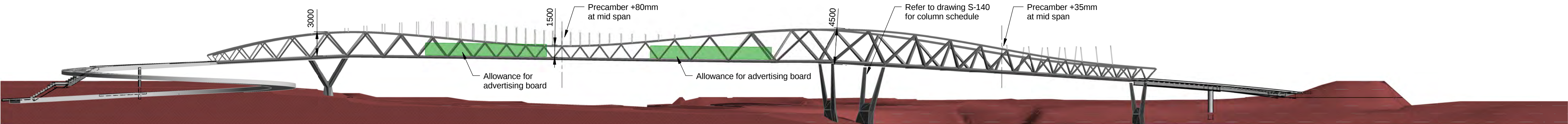
For approach ramp details
refer to drawing S-130



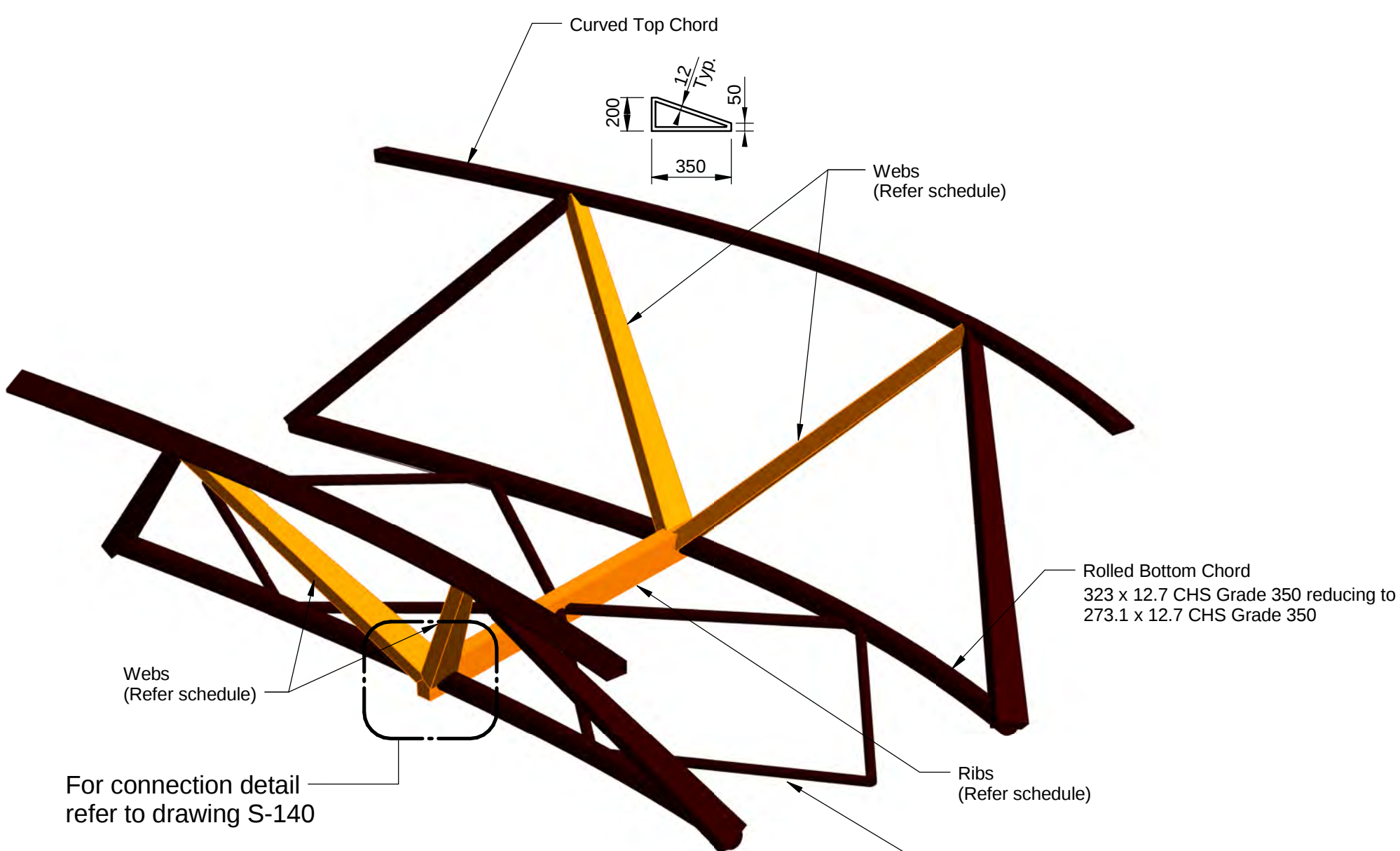
Box Beam Cross Sections
Scale: 1 : 20



Elevation 1
Scale: 1 : 300



Elevation 2
Scale: 1 : 300

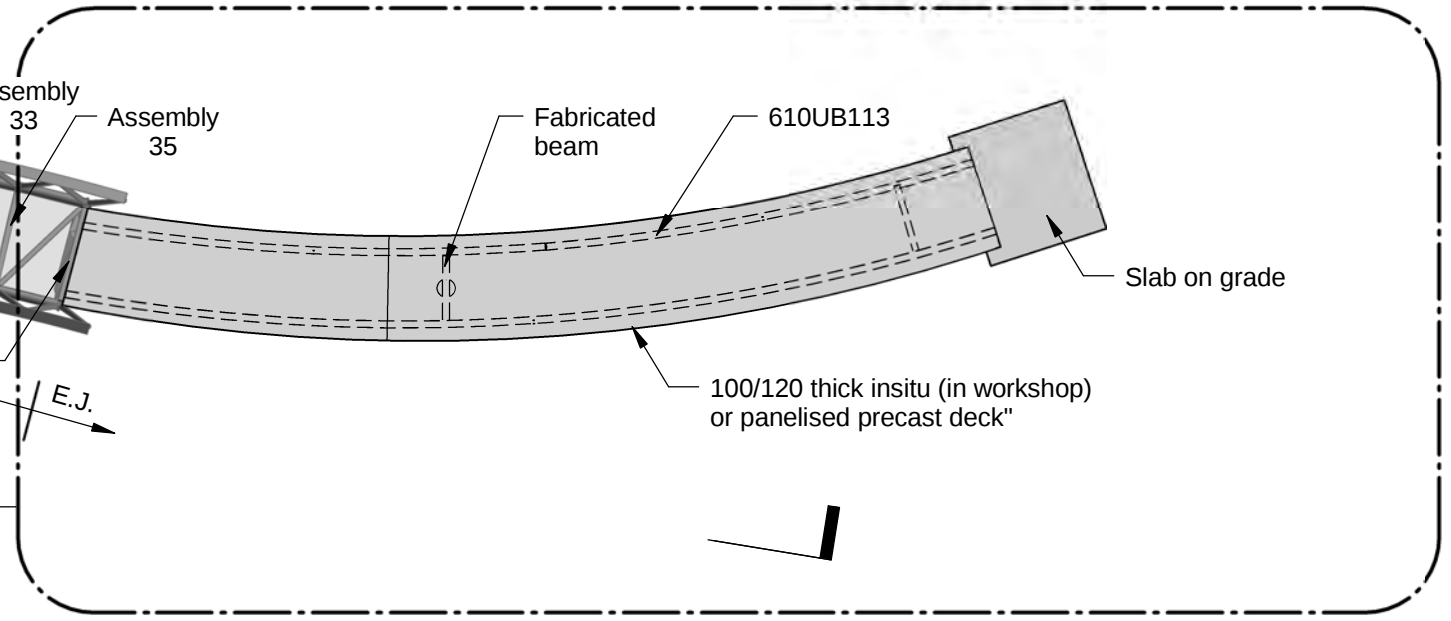


Typical Assembly
(1 complete assembly shown in orange)

Truss Rib and Web member Schedule									
Assembly Number	Ribs				Webs				
	Depth (mm)	Width (mm)	Flange Thickness (mm)	Web Thickness (mm)	Depth at Base (mm)	Depth at Top (mm)	Width (mm)	Flange Thickness (mm)	Web Thickness (mm)
1	225	150	12	6	100	75	50	10	6
2	250	150	12	6	140	100	75	10	6
3	275	175	12	6	200	100	100	10	6
4	300	200	12	6	260	125	125	10	6
5	375	225	20	10	320	150	150	16	10
6	375	225	20	10	360	150	175	16	10
7	375	225	12	6	350	150	175	10	6
8	350	200	12	6	330	150	175	10	6
9	325	200	12	6	290	125	150	10	6
10	300	200	12	6	250	125	125	10	6
11	300	175	12	6	220	100	100	10	6
12	275	175	12	6	200	100	100	10	6
13	275	175	12	6	180	100	100	10	6
14	250	175	12	6	170	100	75	10	6
15	250	175	12	6	170	100	75	10	6
16	275	175	12	6	180	100	100	10	6
17	275	175	12	6	190	100	100	10	6
18	300	175	12	6	220	100	100	10	6
19	300	200	12	6	260	125	125	10	6
20	325	200	12	8	300	150	150	10	6
21	375	225	16	10	370	150	175	12	8
22	400	225	24	12	420	175	200	16	10
23	450	250	32	16	480	200	250	24	12
24	450	250	32	16	500	200	250	24	12
25	425	250	24	12	470	200	225	16	10
26	400	225	16	10	420	175	200	12	8
27	375	225	12	6	360	150	175	10	6
28	350	200	12	6	310	150	150	10	6
29	325	200	12	6	270	125	125	10	6
30	300	175	12	6	240	125	125	10	6
31	300	175	12	6	220	125	100	10	6
32	275	175	12	6	200	100	100	10	6
33	275	175	12	6	190	100	100	10	6
34	275	175	12	6	190	100	100	10	6
35	275	175	12	6	180	100	100	10	6
36	275	175	12	6	180	100	100	10	6

All steel to be grade 300 U.N.O

For approach ramp details
refer to drawing S-130



P3	21/05/14	CDM	XN	AJ
Concept Design				
P2	16/05/14	ML	XN	AJ
Concept Design				
P1	09/05/14	JM	XN	AJ
Preliminary				
Issue	Date	By	Chkd	Appd



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Job Title
North Ryde Station Precinct
M2 Site
State Significant
Development
Pedestrian and Cycle
Bridge

General Arrangement
& Elevations

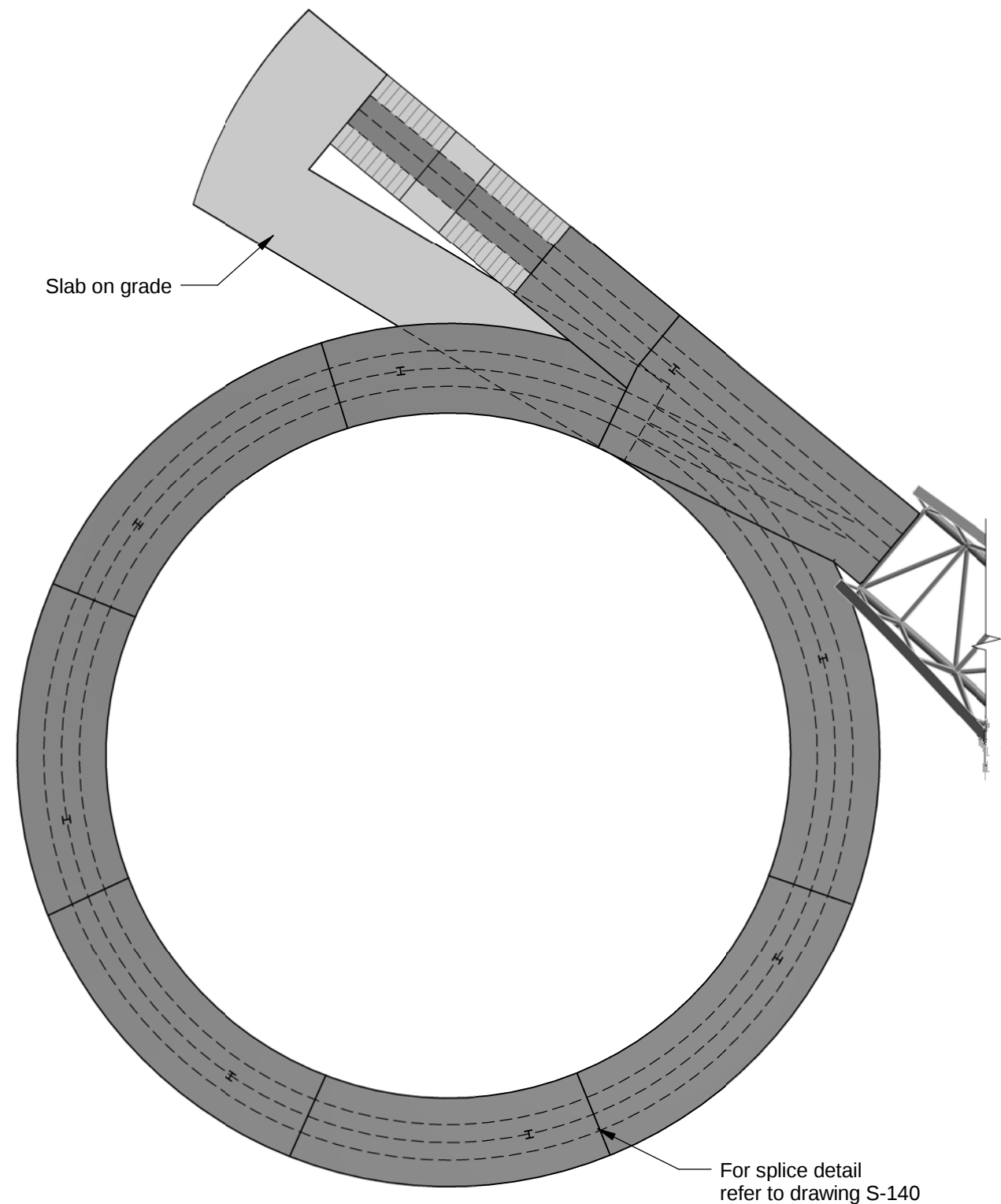
Scale at A1 As indicated

Discipline Structural

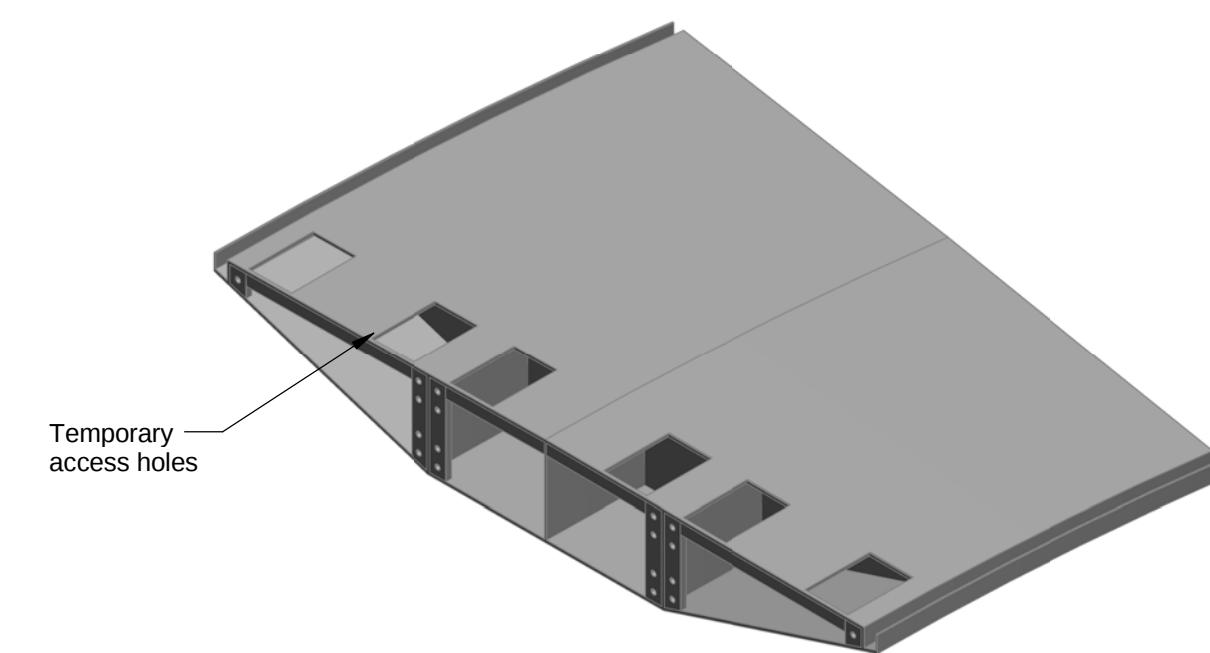
Job No 234008
Drawing No S-120

Drawing Status Concept

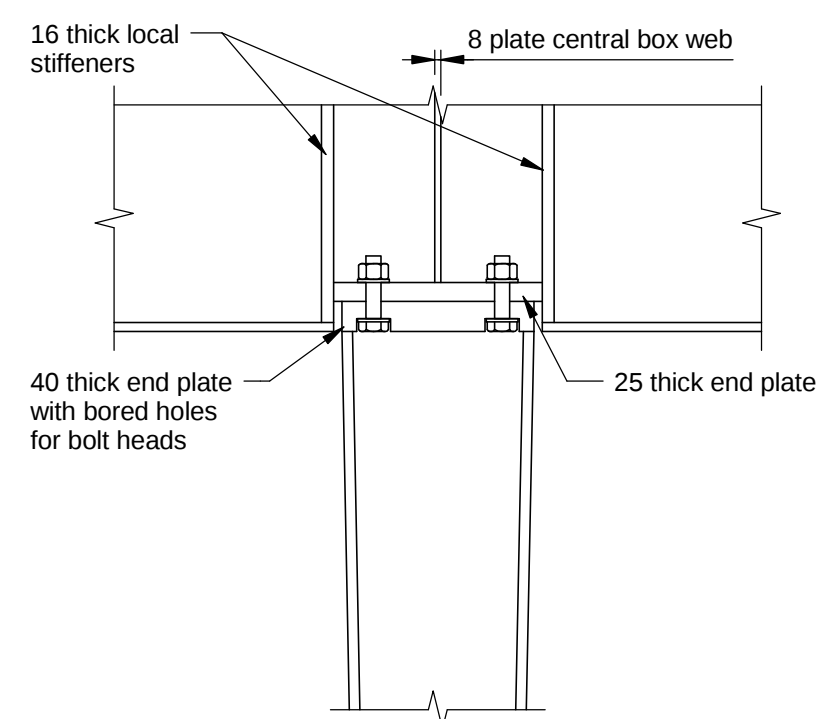
Issue P3



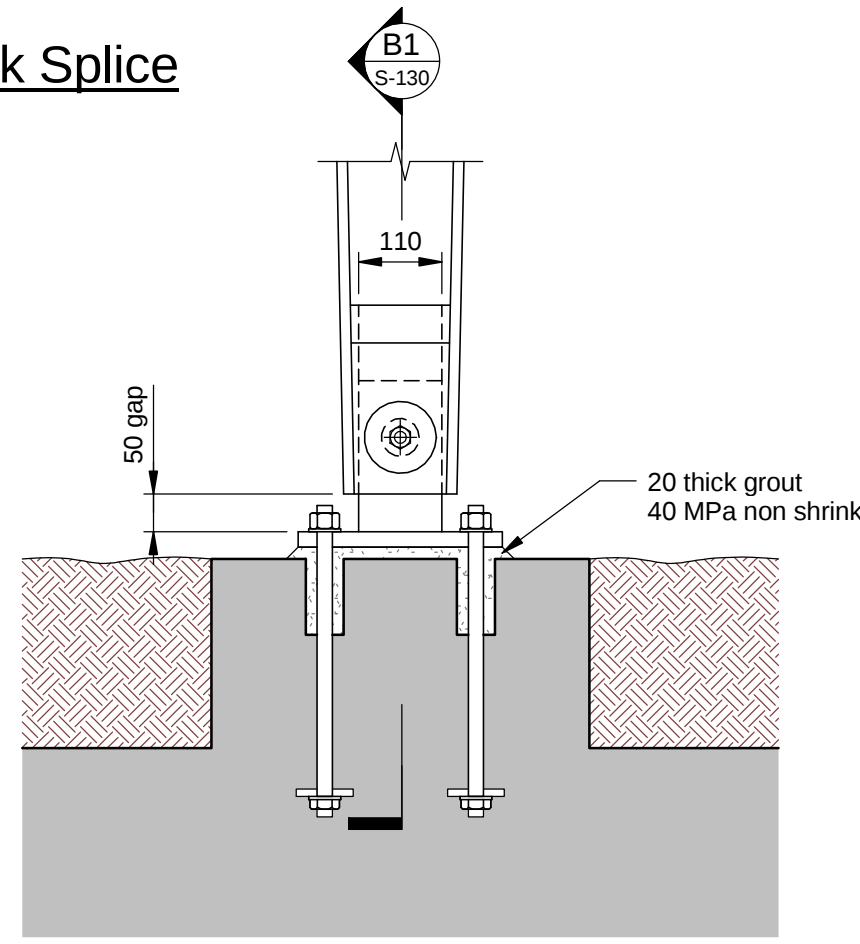
M2 Site Spiral Ramps
Scale: 1 : 200



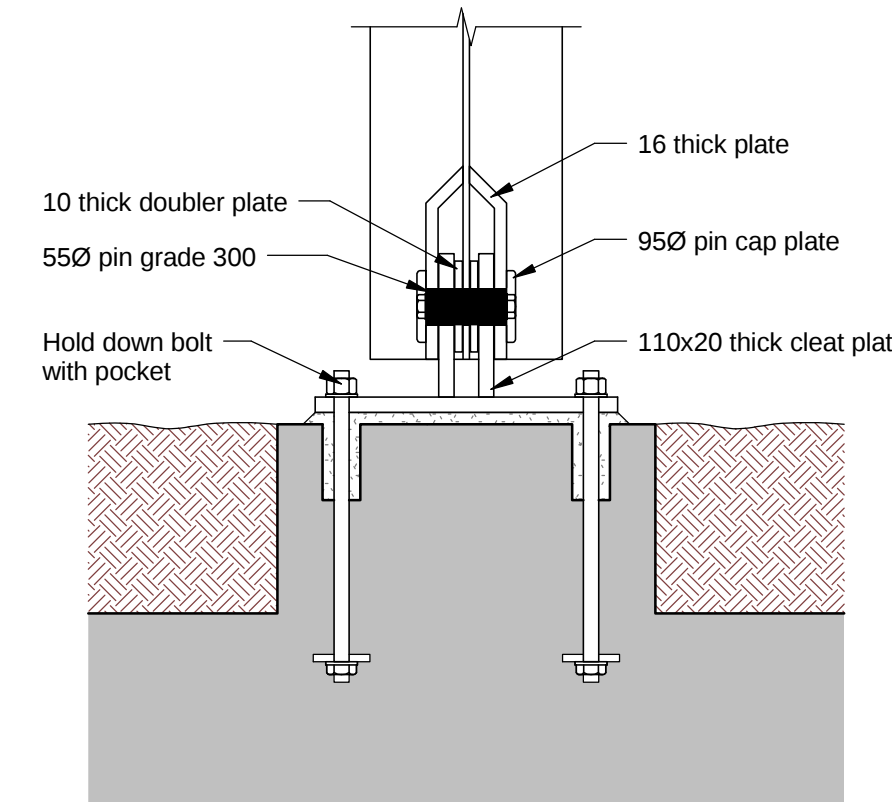
Spiral Deck Splice



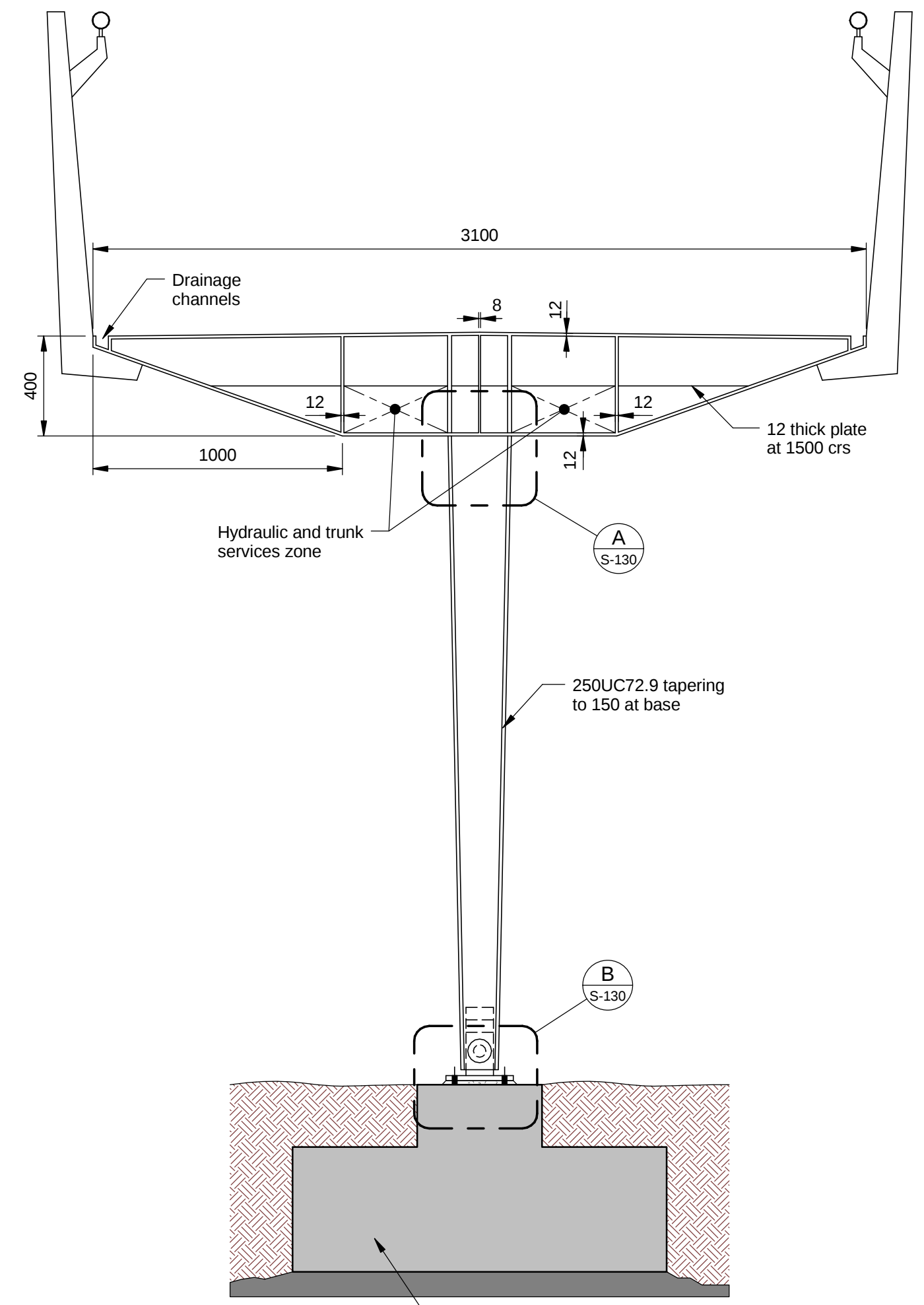
Detail A
Scale 1 : 10



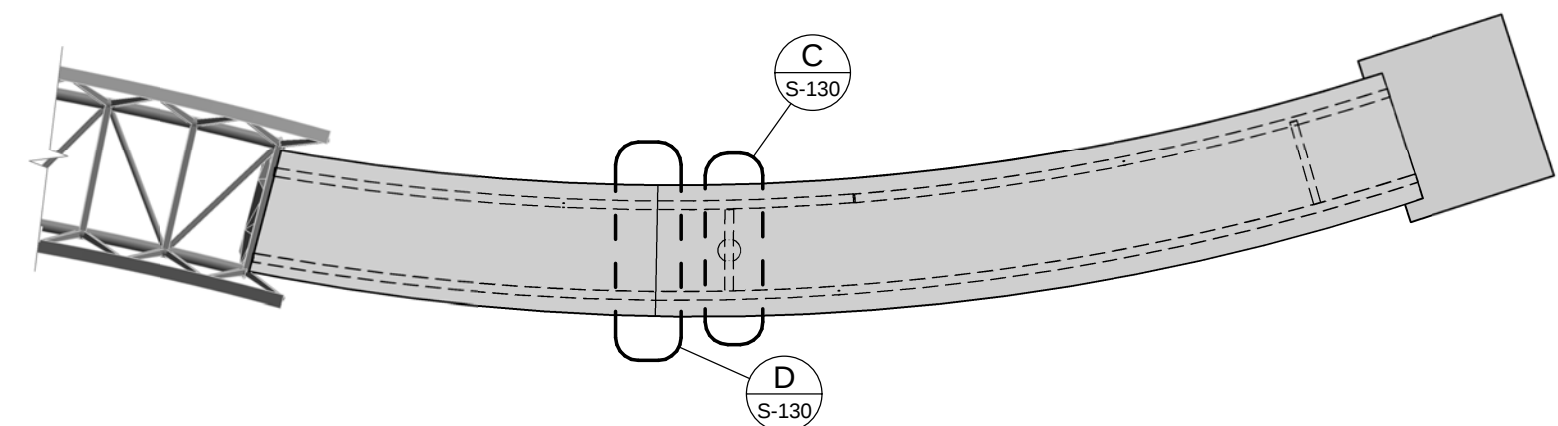
Detail B
Scale 1 : 10



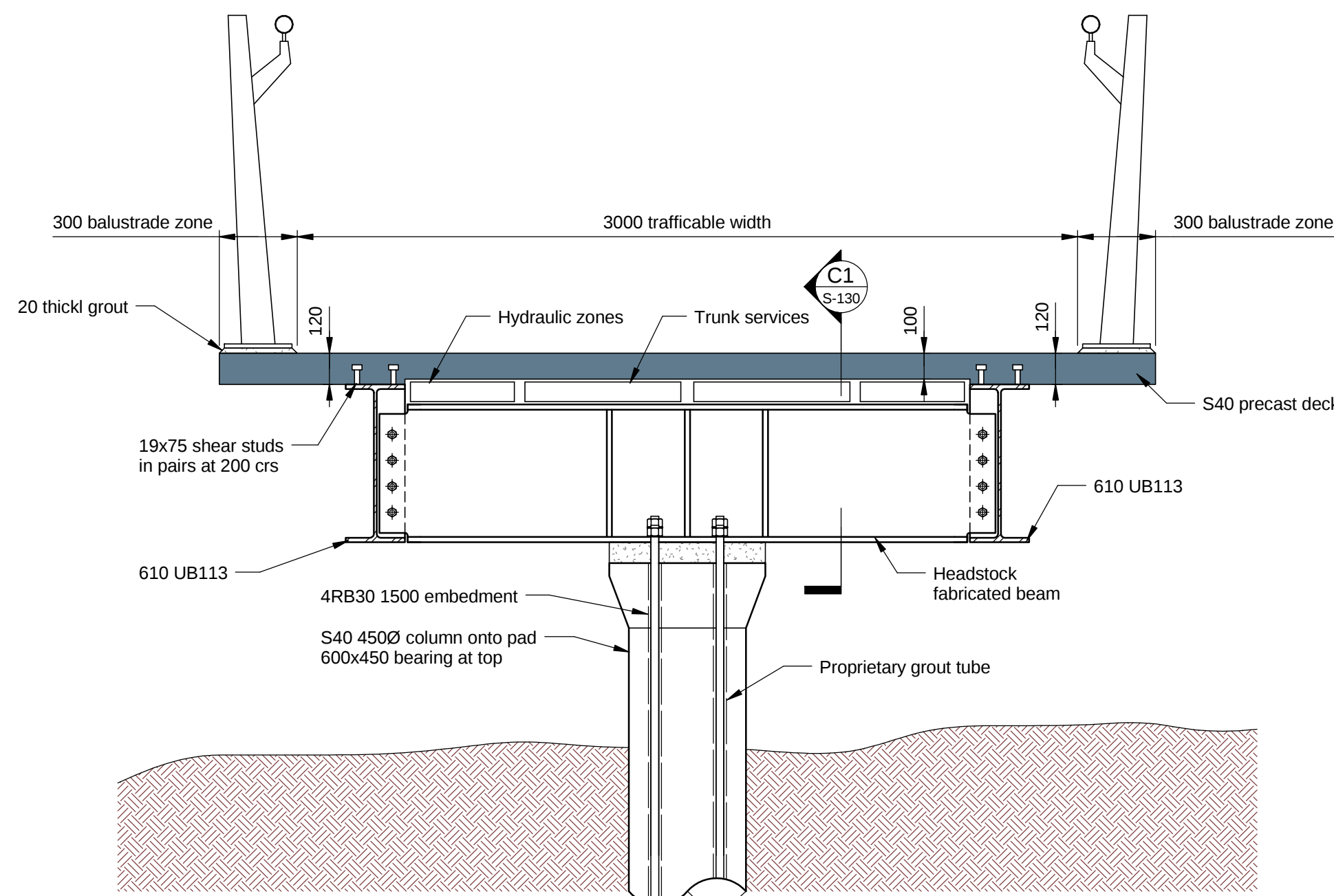
Section B1
Scale 1 : 10



M2 Site Spiral Ramp Cross Section
Scale: 1 : 20

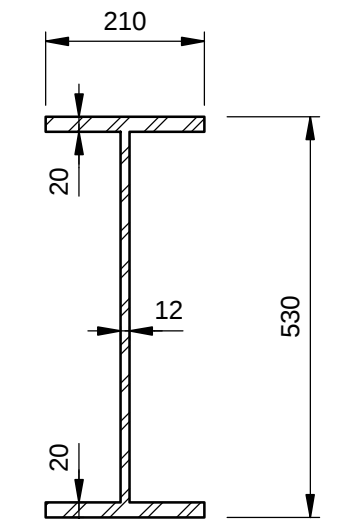


Station Site Ramp
Scale: 1 : 200

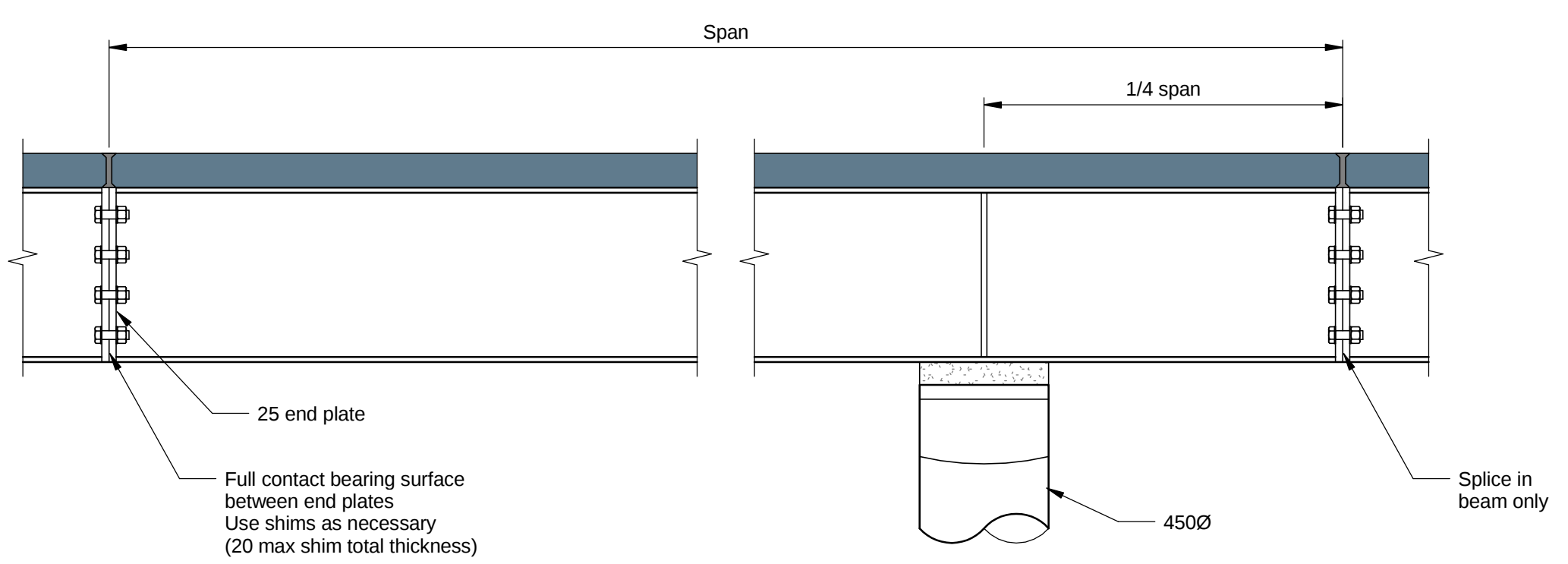


Station Site Ramp Cross Section

Detail C
Scale 1 : 20



Section C1
Scale 1 : 10



Station Site Ramp Typical Splice

Detail D
Scale 1 : 20

P2	21/05/14	CDM	XN	AJ
Concept Design				
P1	16/05/14	ML	XN	AJ
Concept Design				
Issue	Date	By	Chkd	Appd

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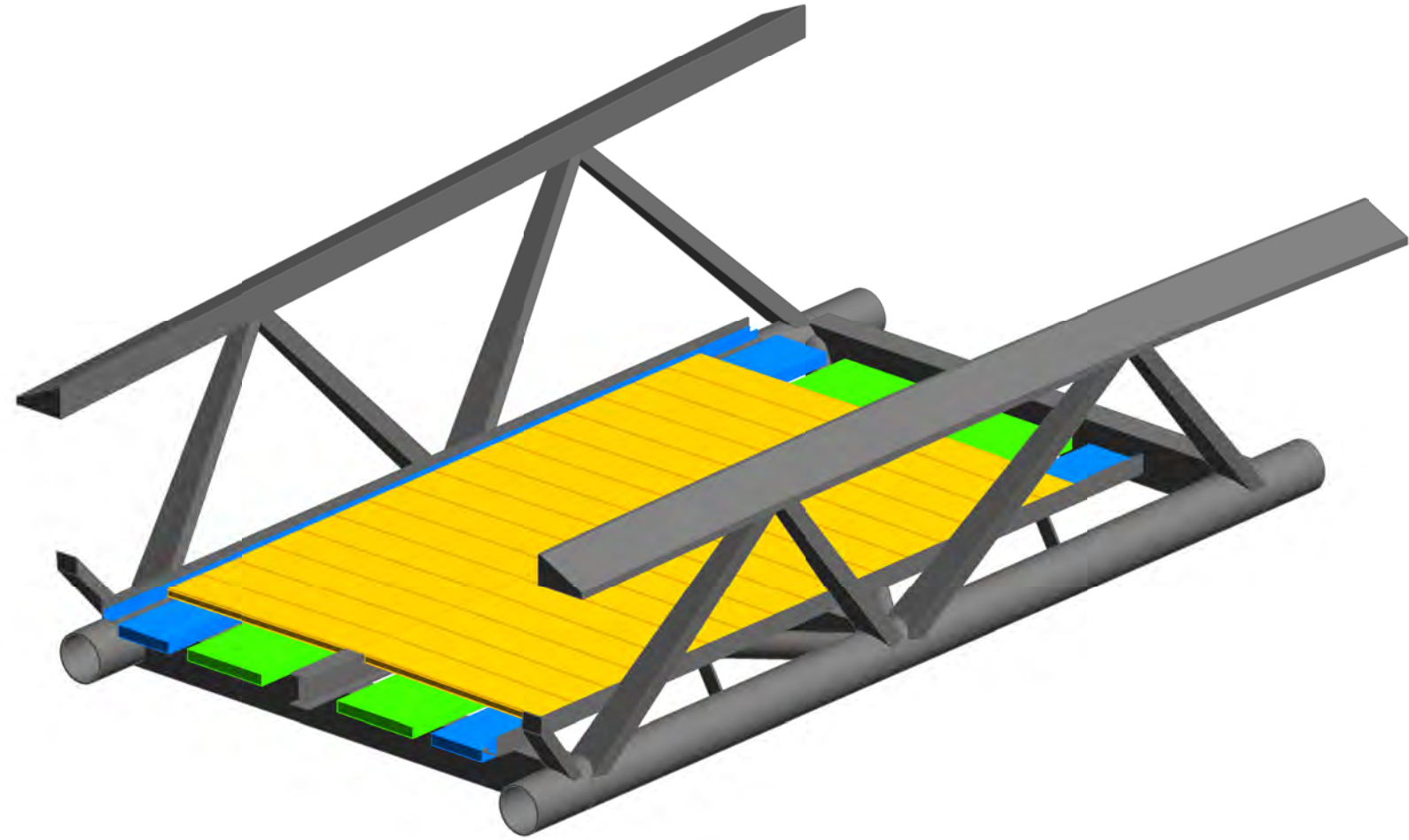
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Job Title
North Ryde Station Precinct
M2 Site
State Significant
Development
Pedestrian and Cycle
Bridge

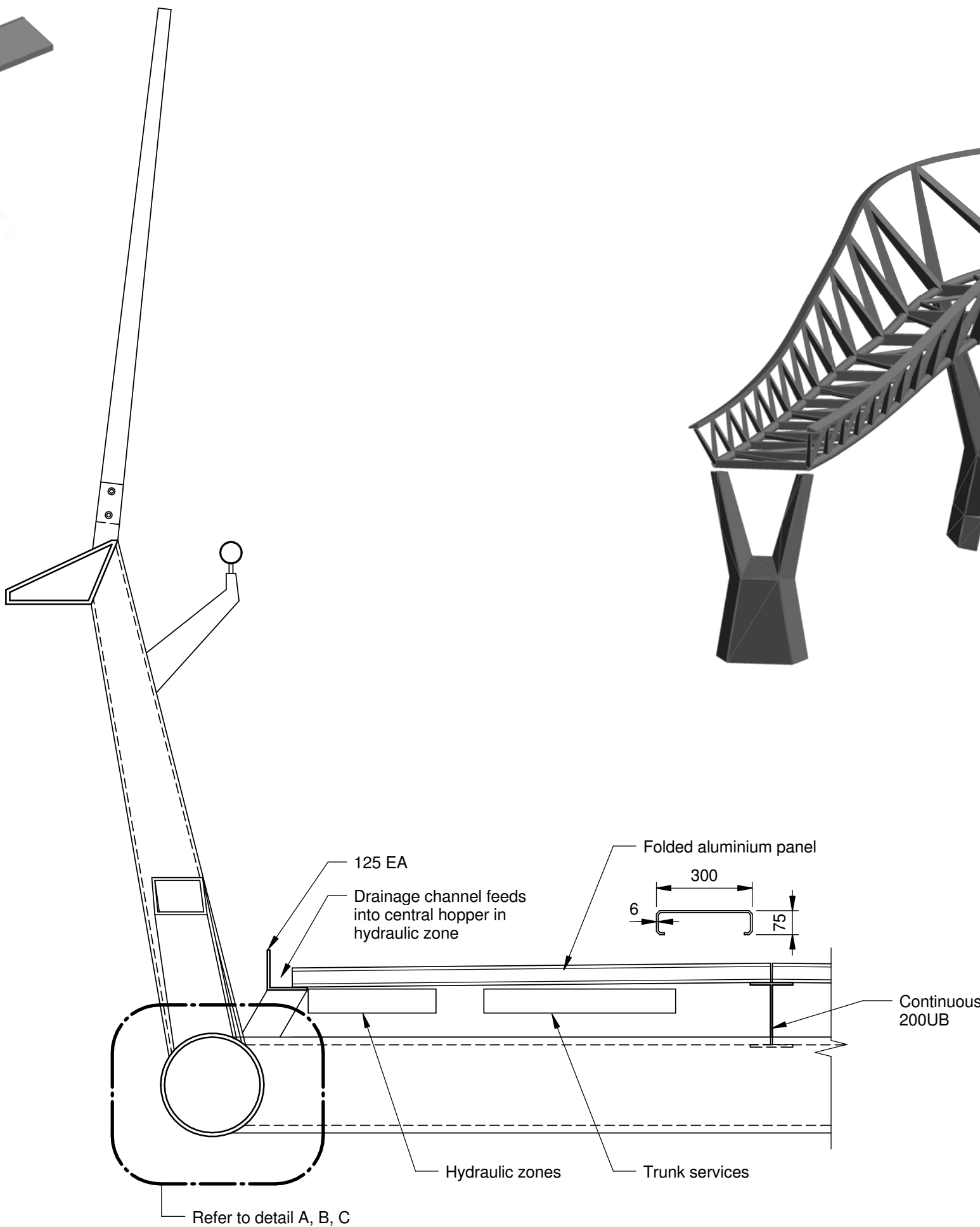
Approach Ramp Details

Scale at A1 As indicated
Discipline Structural
Job No 234008
Drawing No S-130
Drawing Status Concept
Issue P2

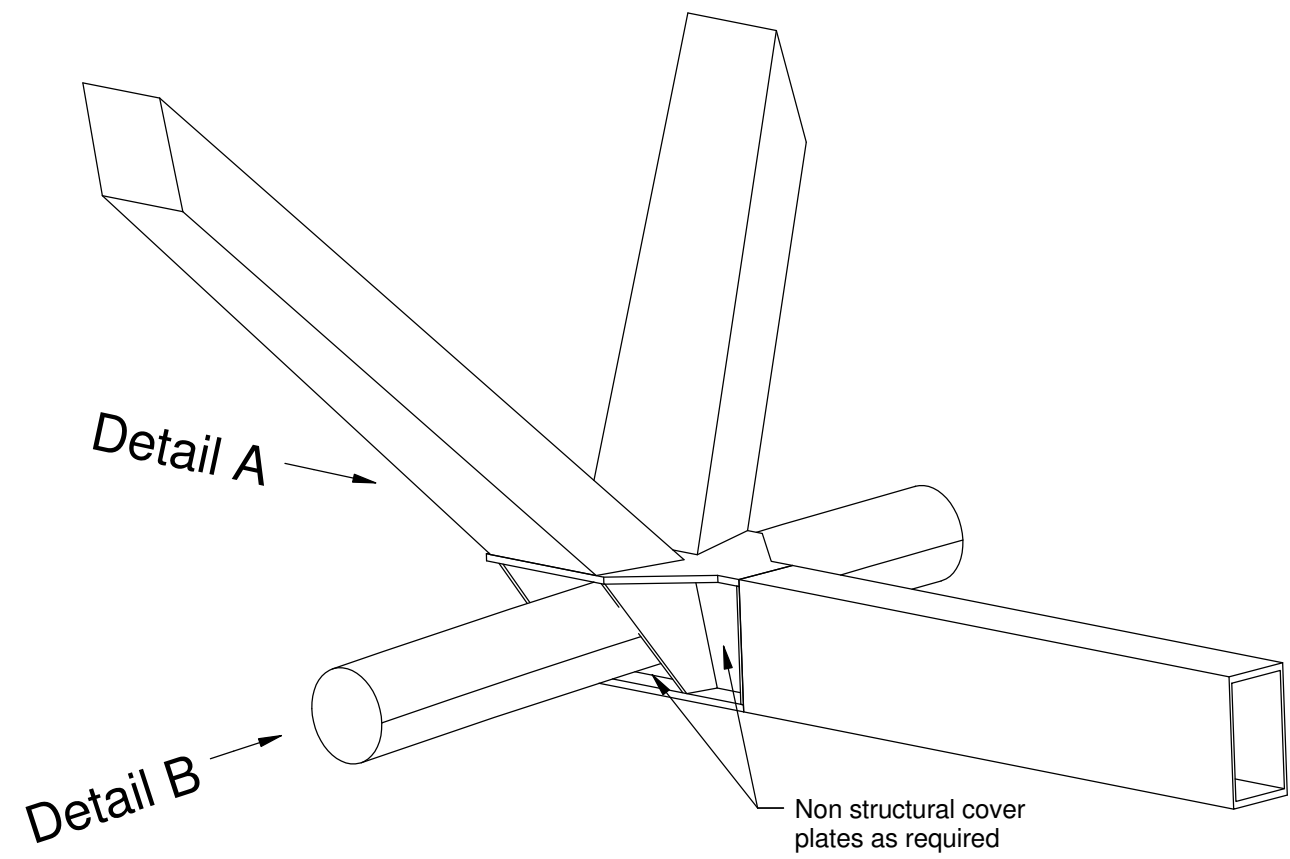
A1
1
2
3
4
5
6
7
8
9
10



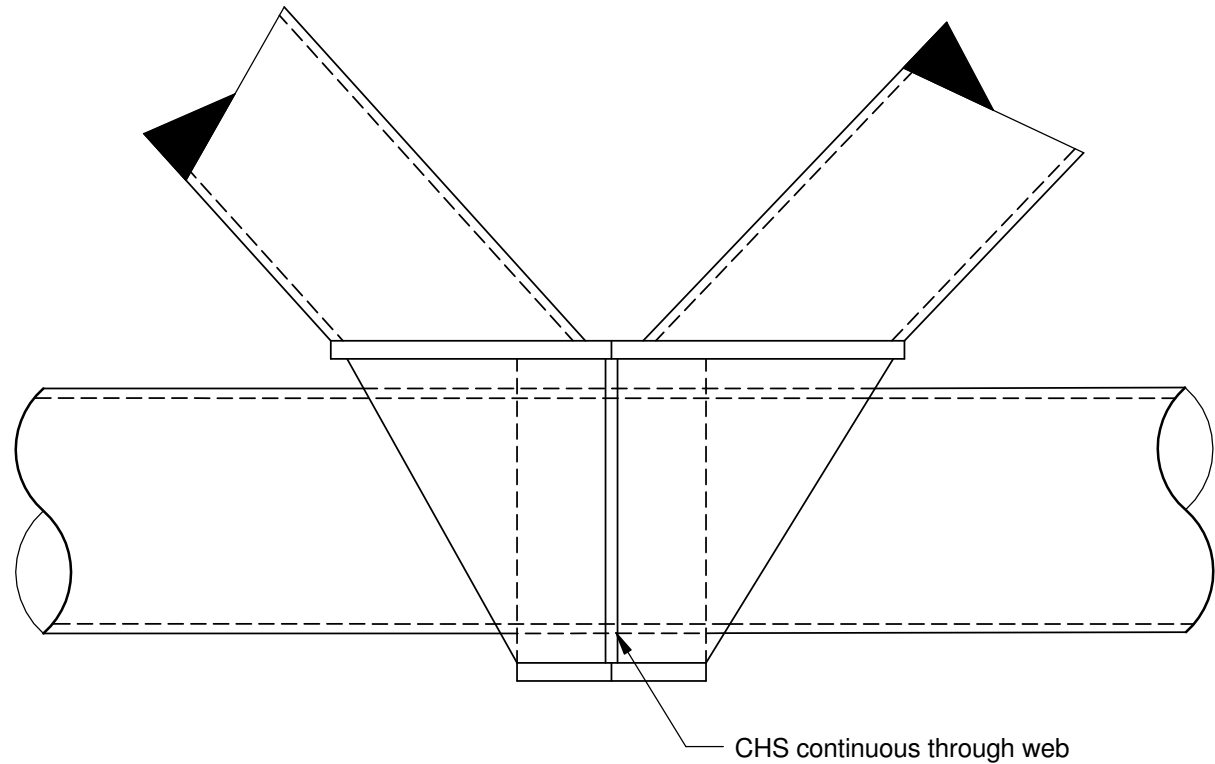
Deck Isometric



Deck Cross Section
Scale: 1 : 15

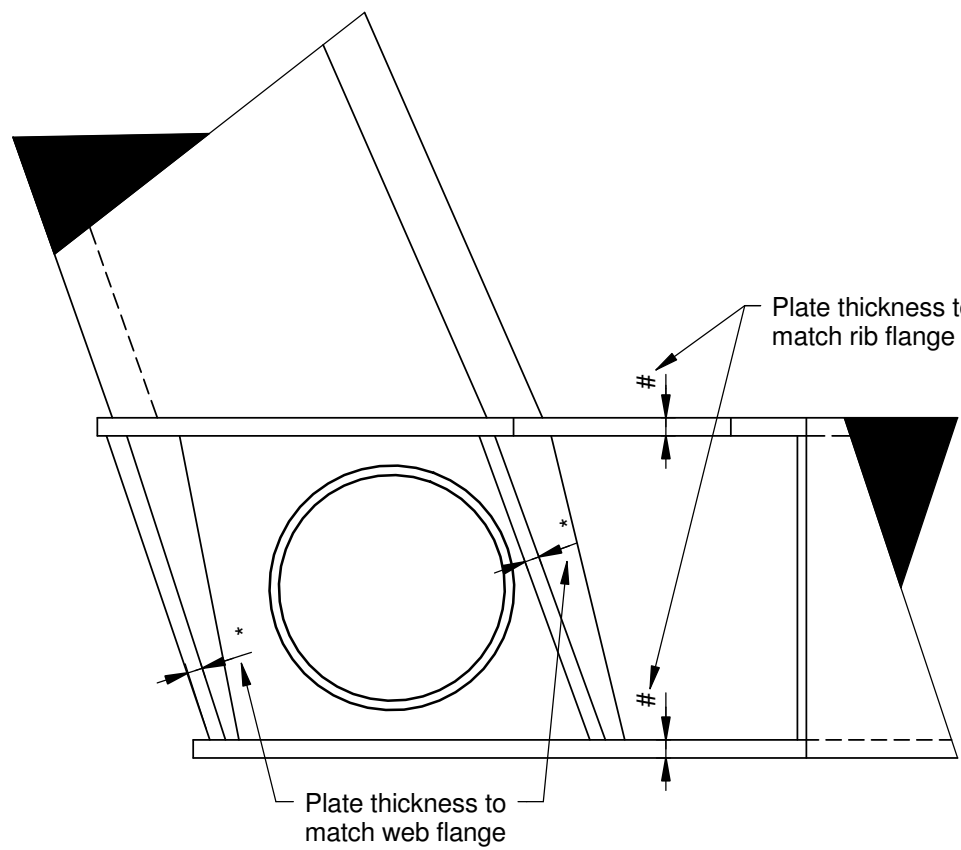


Typical Truss Node
(Web Depth > CHS Diameter)



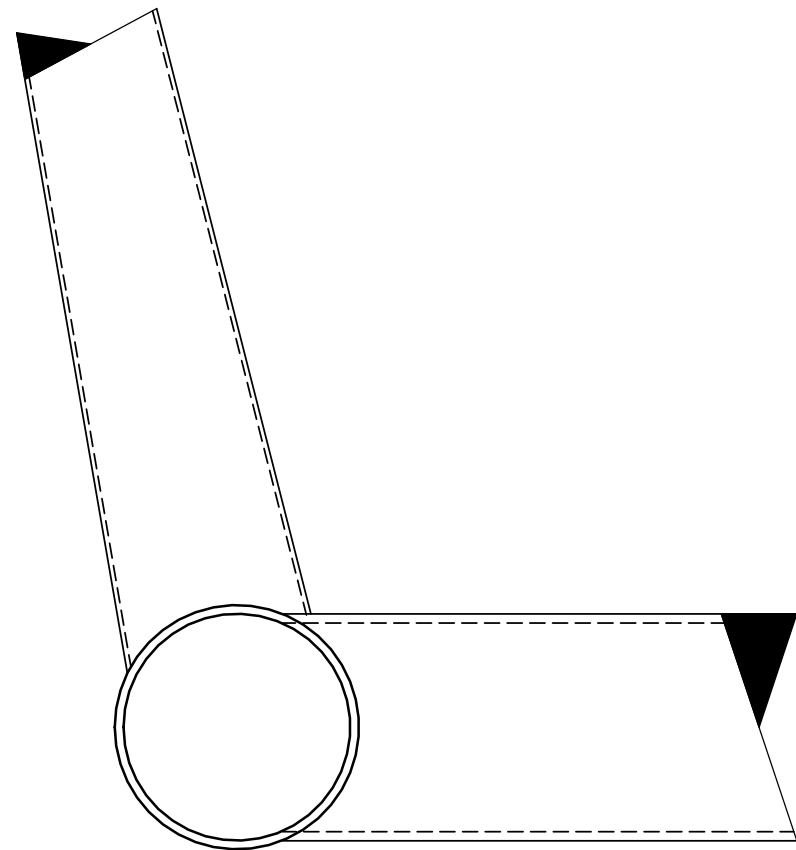
Detail A
Scale 1 : 10

(Web Depth > CHS Diameter)



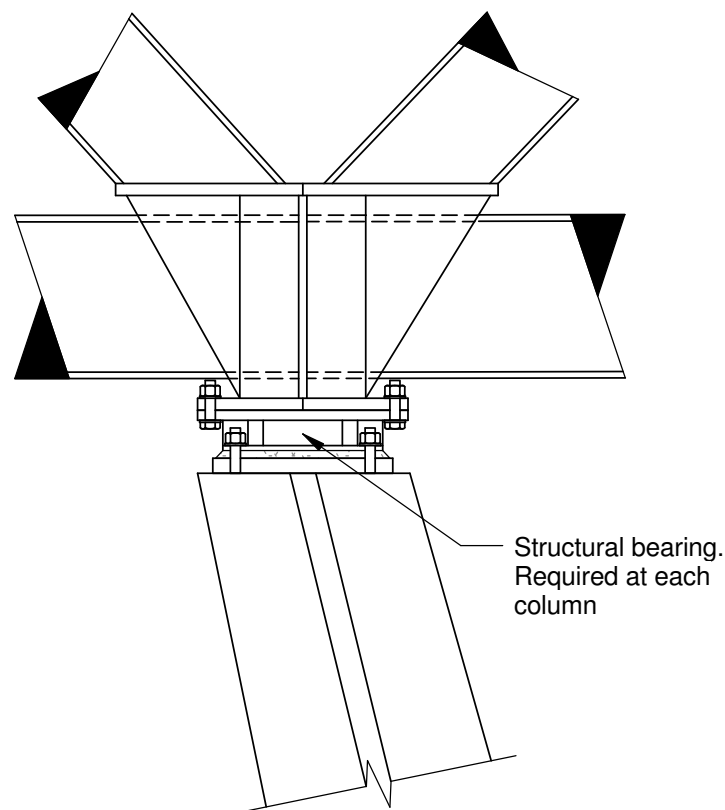
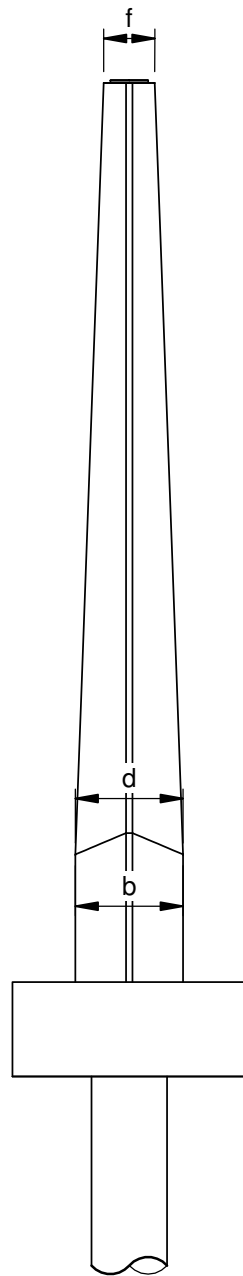
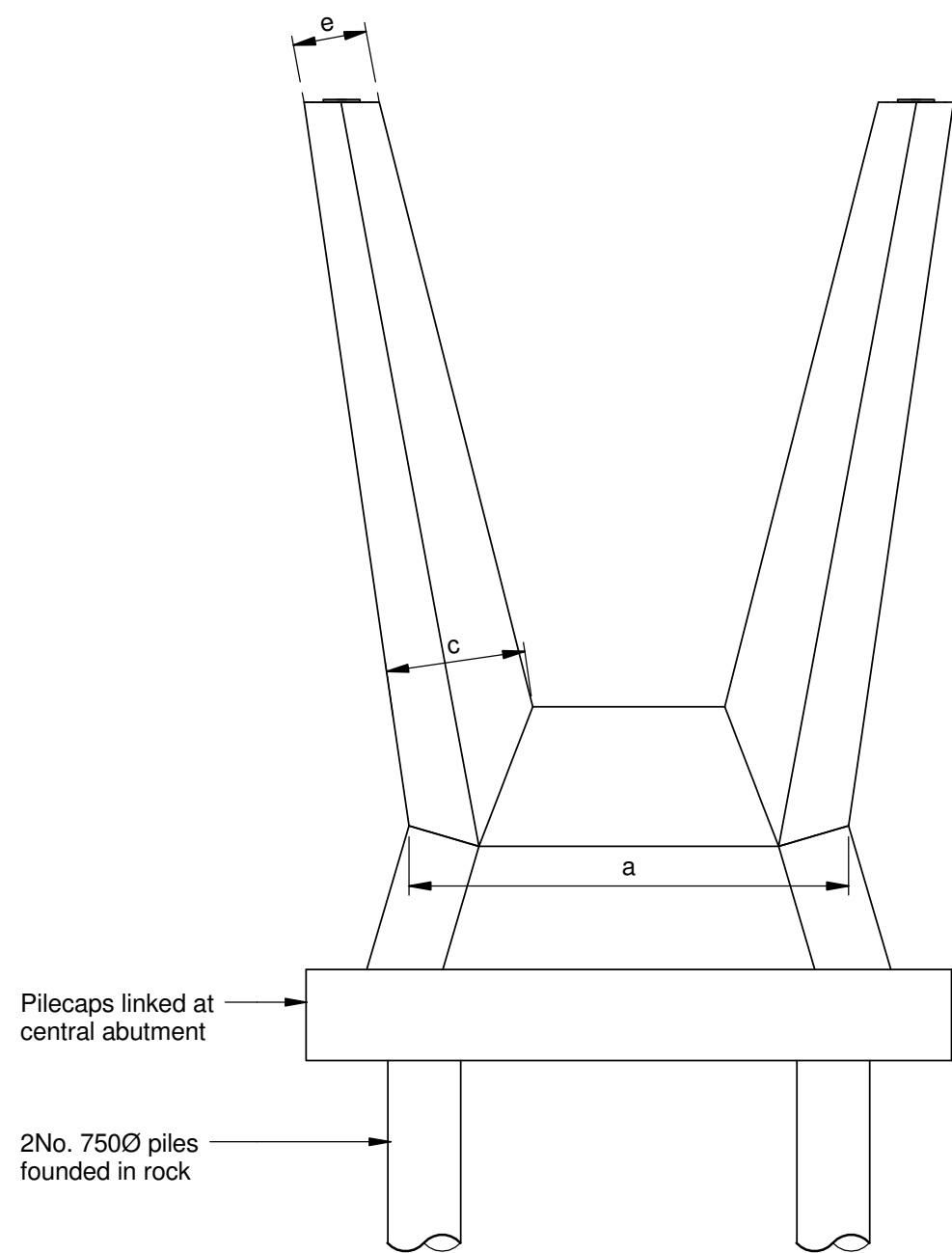
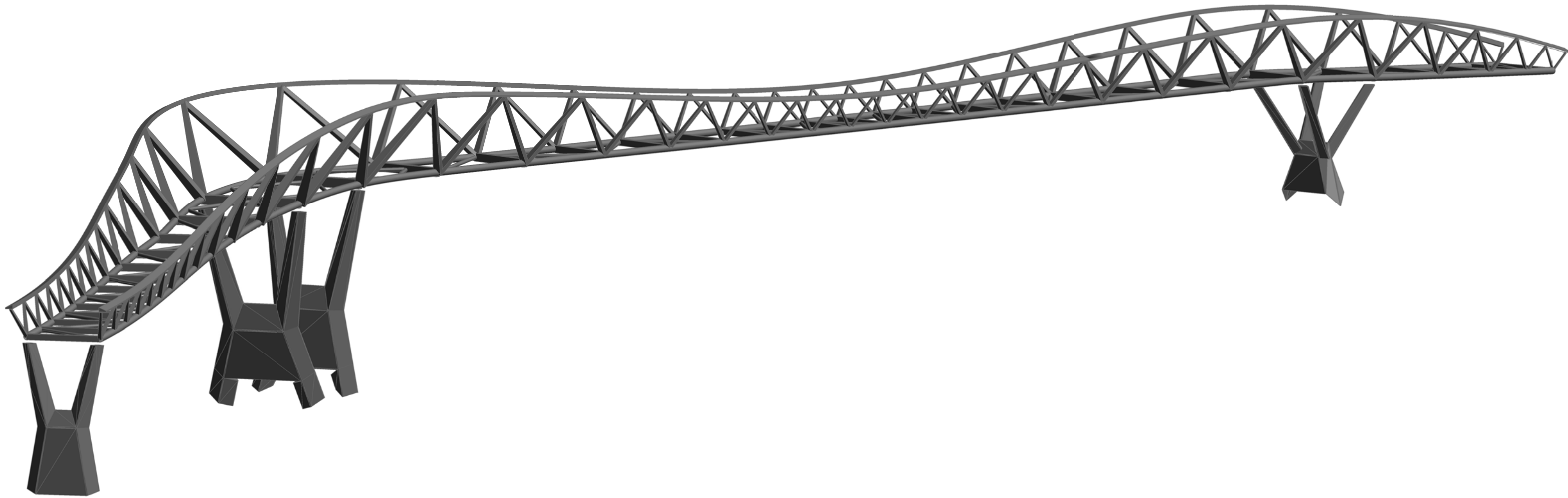
Detail B
Scale 1 : 10

(Web Depth > CHS Diameter)



Detail C
Scale 1 : 20

(Web Depth < CHS Diameter)



Bearing Detail
Scale: 1 : 15

Truss Columns									
Location	a	b	Dimension		e	f	Concrete Grade (MPa)	Reinforcement kg/m3	Structural Bearing
	(mm)	(mm)	c	d	(mm)	(mm)			
M2 Site	2500	600	1000	600	550	330	S50	300	Granor BSGU - 700 - 0/40
Central butment	3600	900	1200	900	650	490	S50	400	Granor Pot PFX(15)-1250-0/0 + uplift restraint
Station Site	2500	600	1000	600	550	330	S50	250	Granor BSG(20) - 500 - 0/40

P2	21/05/14	CDM	XN	AJ
Concept Design				
P1	16/05/14	ML	XN	AJ
Concept Design				
Issue	Date	By	Chkd	Appd

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Job Title

North Ryde Station Precinct
M2 Site
State Significant
Development
Pedestrian and Cycle
Bridge

Bridge Details

Scale at A1 As indicated

Discipline Structural

Job No
234008

Drawing Status
Concept

Drawing No
S-140

Issue
P2