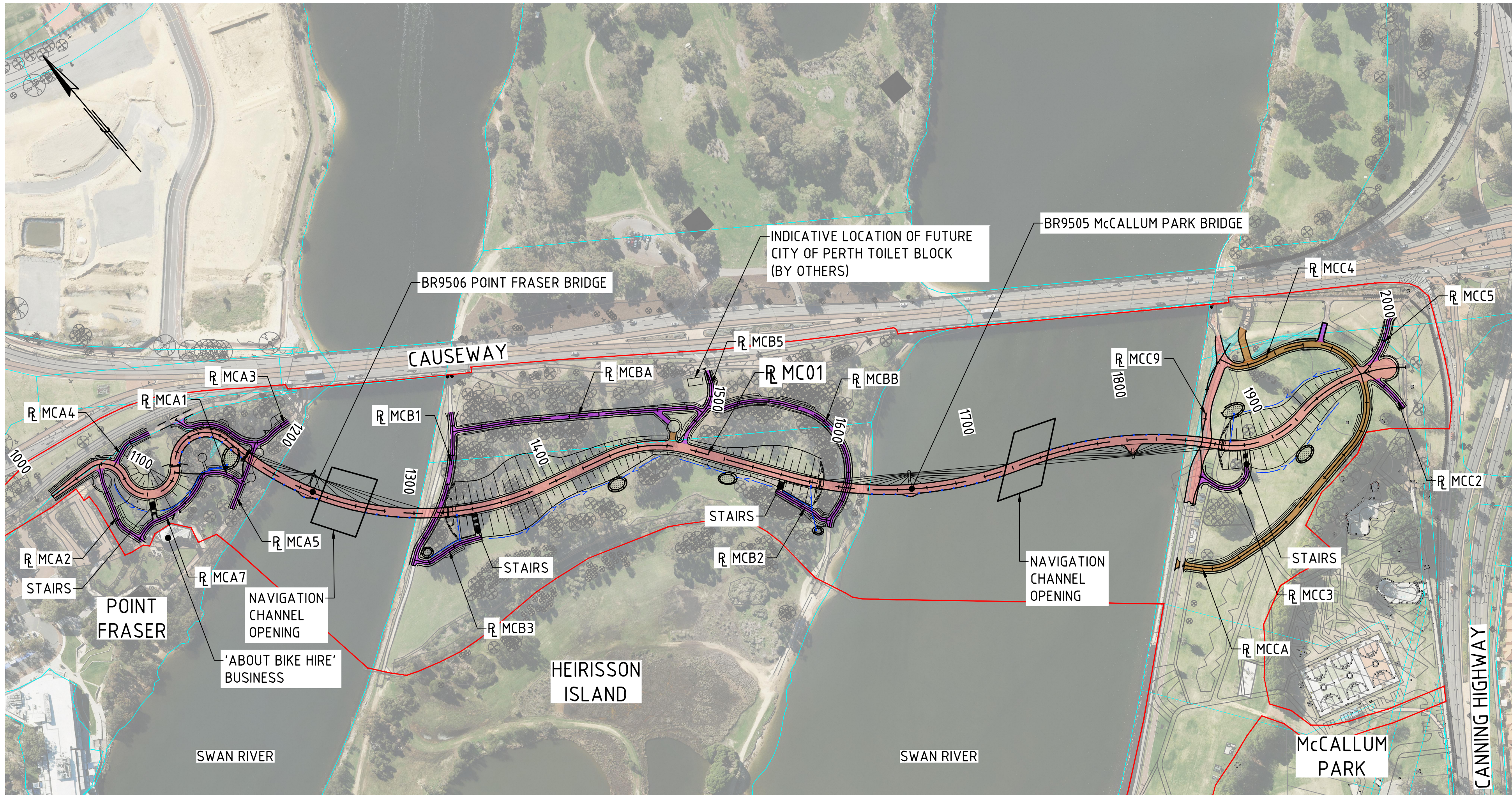


Plotted By: Boceski, Wya Plot Date: 13/09/2022 3:28 PM Cad File: C:\pwworking\wsp-aus-pw\benfley.com_wsp-aus-pw\19140222996\301-CLA-0000-CL-DRG-00010.dwg



PLAN
1:2000

NOTES

1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.

LEGEND

- 100 + REFERENCE LINE
- SEAL EDGE
- CADASTRAL BOUNDARY
- PROJECT BOUNDARY
- OPEN DRAINS
- DRAINAGE PIPE AND FLOW DIRECTION
- SCUPPER
- GULLY PIT
- HEADWALL
- ROCK PROTECTION
- DRAINAGE DEPRESSION
- 1.4m BALUSTRADE
- FIXED BOLLARD
- RETRACTABLE BOLLARD
- 6m PEDESTRIAN / CYCLE PATH
- 4m SHARED PATH
- 3m SHARED PATH
- 2.5m FOOTPATH
- EXISTING PAVEMENT TO BE REMOVED



THE ORIGINAL OF THIS DRAWING WAS PRODUCED USING COLOUR SEPARATION FOR GREATER CLARITY. WORKING WITH BLACK AND WHITE COPY MAY CAUSE ERRORS.

FOR INFORMATION ONLY

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1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.

100	REFERENCE LINE
— + —	SEAL EDGE
----	CADASTRAL BOUNDARY
—	PROJECT BOUNDARY
— > — > —	OPEN DRAINS
— ● —	DRAINAGE PIPE AND FLOW DIRECTION
●	SCUPPER
■	GULLY PIT
⤿	HEADWALL
⬜	ROCK PROTECTION
⬜	DRAINAGE DEPRESSION
—	1.4m BALUSTRADE
●	FIXED BOLLARD
■	RETRACTABLE BOLLARD
⬜	6m PEDESTRIAN / CYCLE PATH
⬜	4m SHARED PATH
⬜	3m SHARED PATH
⬜	2.5m FOOTPATH
⬜	EXISTING PAVEMENT TO BE REMOVED

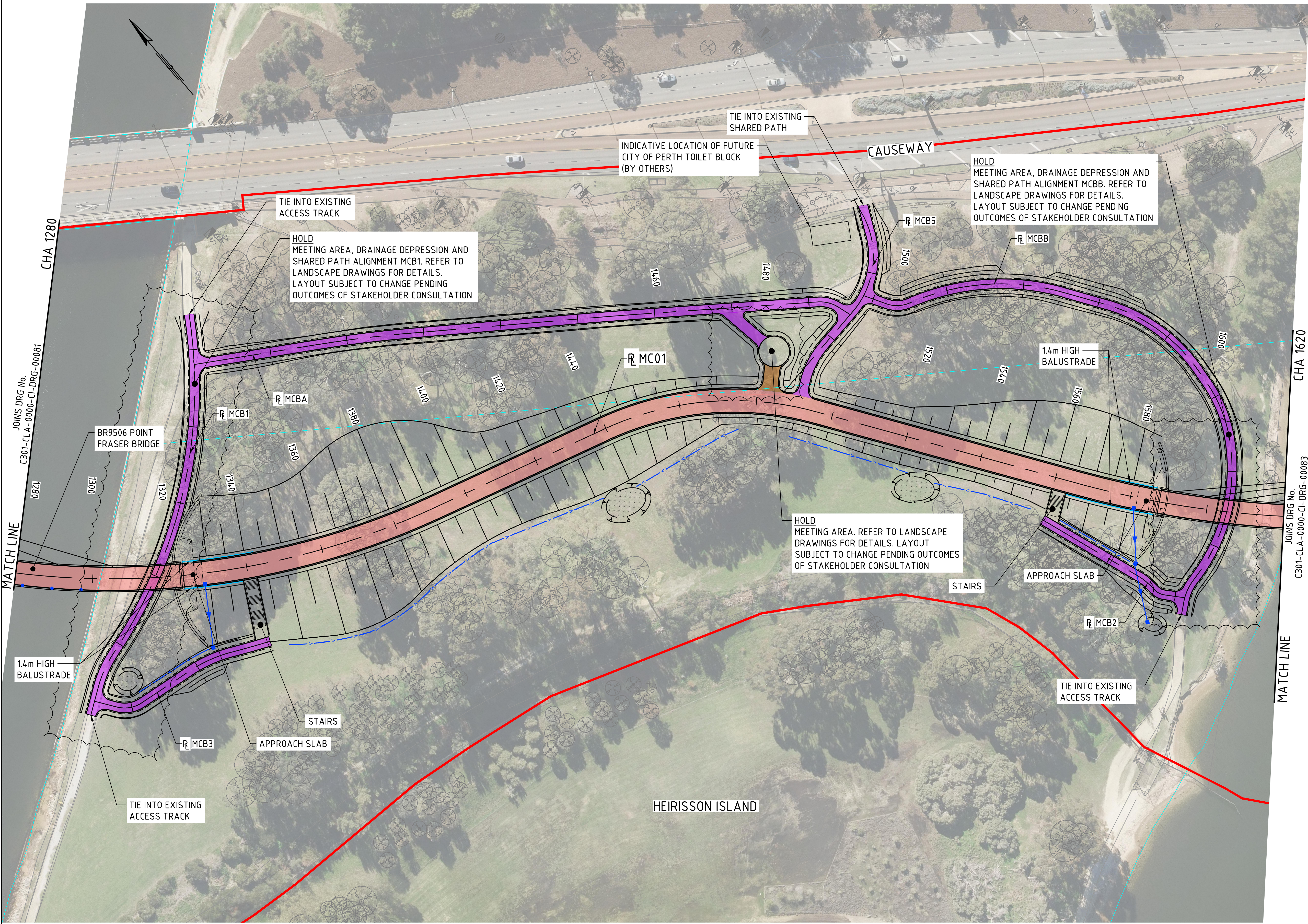


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THE ORIGINAL OF THIS DRAWING WAS
PRODUCED USING COLOUR SEPARATION FOR
GREATER CLARITY. WORKING WITH BLACK
AND WHITE COPY MAY CAUSE ERRORS.

LOCAL AUTHORITY CITY OF PERTH (124), TOWN OF VICTORIA PARK (129)		MAIN ROADS RESPONSIBILITY AREA METROPOLITAN REGION	
MRWA DRAWING NUMBER			
PROJECT TITLE CAUSEWAY LINK ALLIANCE			
DRAWING TITLE CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGES GENERAL ARRANGEMENT PLAN CHA 1000 TO CHA 1280			
DRAWING STATUS 15%		DRAWING No. C301-CLA-0000-CI-DRG-00081	
		SHEET A1 REV A	

Plotted By: Boceski, Wya Plot Date: 13/09/2022 3:30 PM Cad File: C:\pwworking\wsp-aus-pw-bentley.com_wsp-aus-pw-19140222996\C301-CLA-0000-CI-DRG-00082.dwg



NOTES
1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.

LEGEND

- 100 + REFERENCE LINE
- SEAL EDGE
- CADASTRAL BOUNDARY
- PROJECT BOUNDARY
- OPEN DRAINS
- DRAINAGE PIPE AND FLOW DIRECTION
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- HEADWALL
- ROCK PROTECTION
- DRAINAGE DEPRESSION
- 1.4m BALUSTRADE
- FIXED BOLLARD
- RETRACTABLE BOLLARD
- 6m PEDESTRIAN / CYCLE PATH
- 4m SHARED PATH
- 3m SHARED PATH
- 2.5m FOOTPATH
- EXISTING PAVEMENT TO BE REMOVED

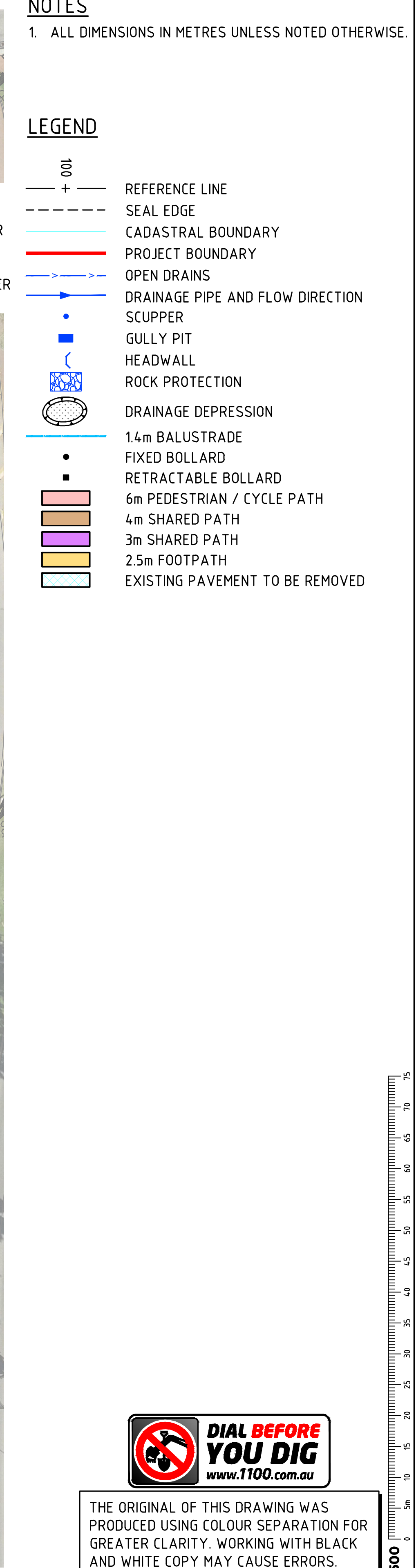


THE ORIGINAL OF THIS DRAWING WAS PRODUCED USING COLOUR SEPARATION FOR GREATER CLARITY. WORKING WITH BLACK AND WHITE COPY MAY CAUSE ERRORS.

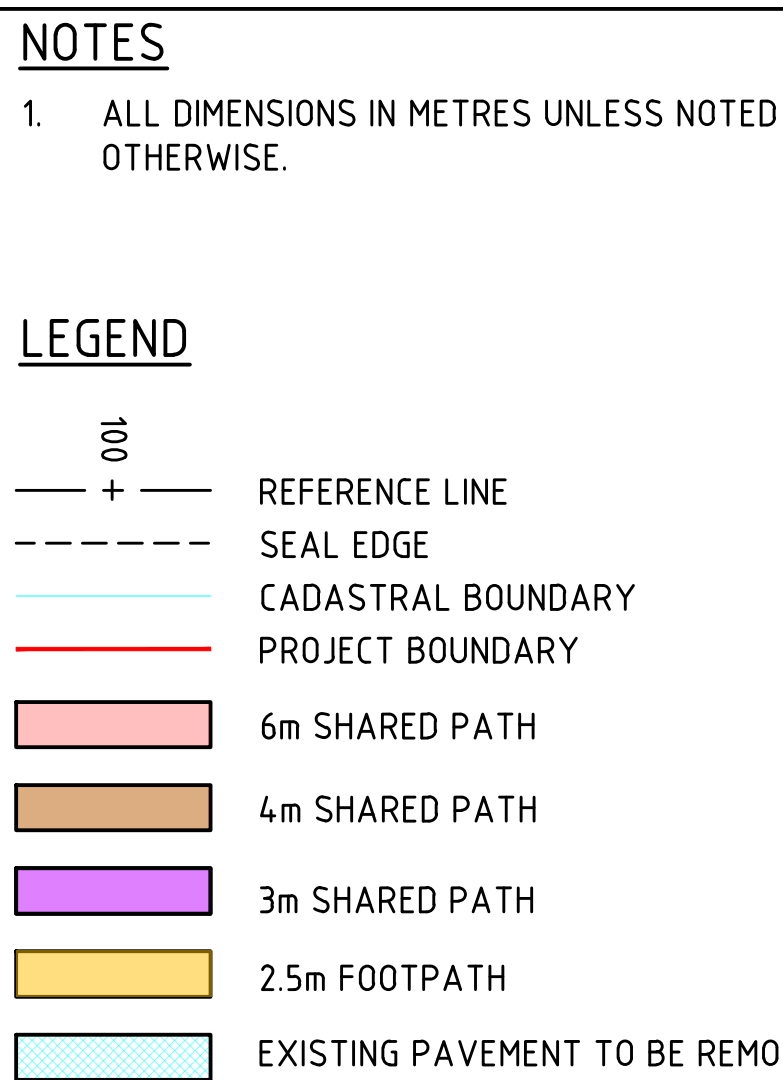
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FOR INFORMATION ONLY

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PLAN 1:500		PLAN 1:500	
METADATA		FOR INFORMATION ONLY	
GROUND SURVEY STANDARD: 67-08-43 DATE OF CAPTURE: JUN 2022 MAPPING SURVEY STANDARD: 67-08-44 DATE OF CAPTURE: - MAIN ROADS PROJECT ZONE: PCG94 HEIGHT DATUM: AHD71		LOCAL AUTHORITY: CITY OF PERTH (24), TOWN OF VICTORIA PARK (25) MAIN ROADS RESPONSIBILITY AREA: METROPOLITAN REGION METWA DRAWING NUMBER:	
ISSUED FOR 15% DESIGN REVIEW T.C. 09.09.22		PROJECT TITLE: CAUSEWAY LINK ALLIANCE DRAWING TITLE: CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGES GENERAL ARRANGEMENT PLAN CHA 1620 TO CHA 2005.334	
AMENDMENTS		SHEET A1	



THE ORIGINAL OF THIS DRAWING WAS
PRODUCED USING COLOUR SEPARATION FOR
GREATER CLARITY. WORKING WITH BLACK
AND WHITE COPY MAY CAUSE ERRORS.

(FOR INFORMATION ONLY)

LOCAL AUTHORITY	MAIN ROADS RESPONSIBILITY AREA
CITY OF PERTH (024), TOWN OF VICTORIA PARK (029)	METROPOLITAN REGION

PROJECT TITLE	CAUSEWAY LINK ALLIANCE
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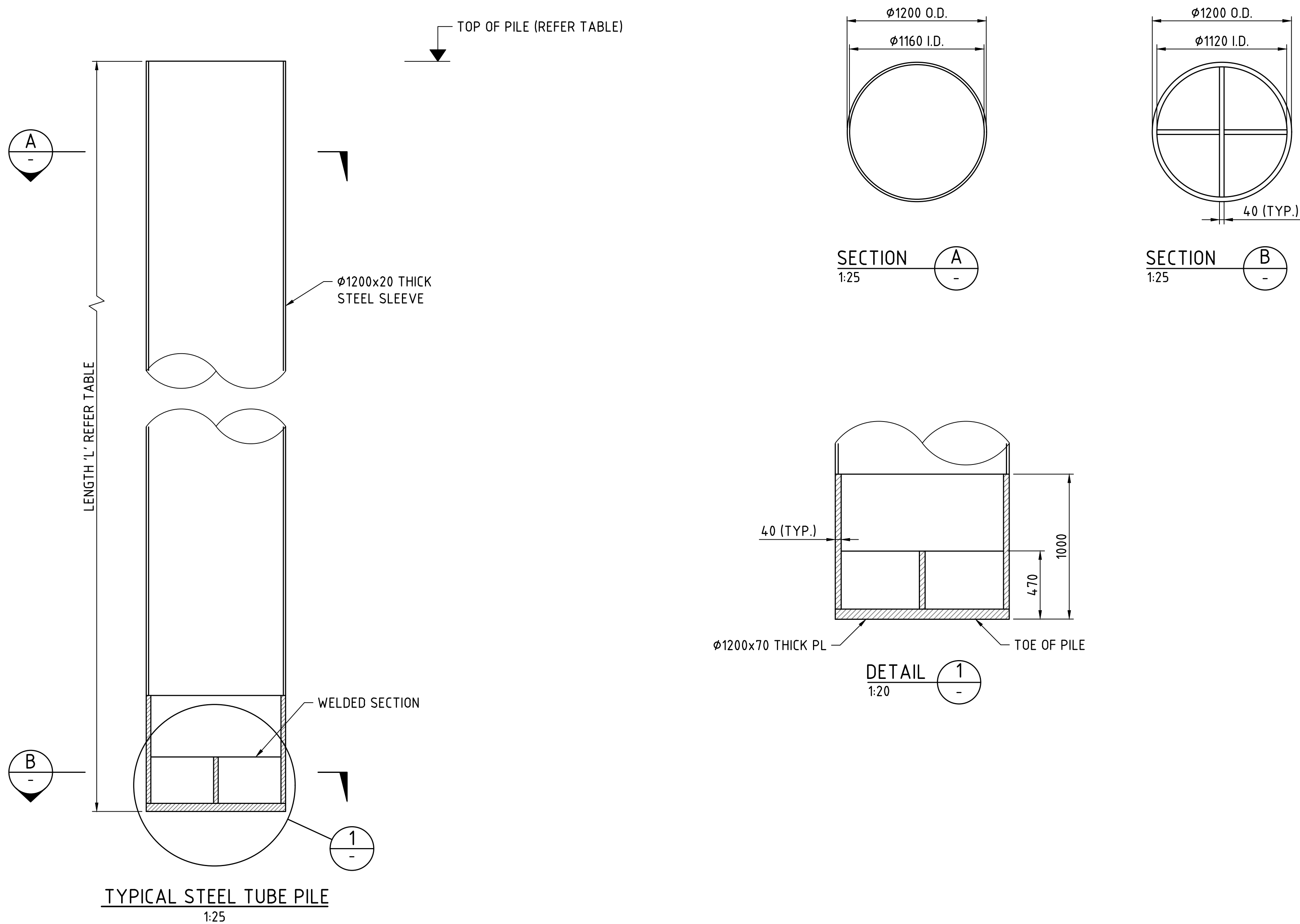
DRAWING TITLE	CAUSEWAY PEDESTRIAN AND CYCLIST BRID PLAN AND PROFILE - PSP MC01 - CHA 1000 TO CHA 2005.334
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DRAWING STATUS	DRAWING No.
15%	C301-CI A-0000-CI-SKT-00001

SHEET
A1
REV
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Plot Date: 22/07/2022 8:37 AM C:\Users\Burgess\OneDrive - WSP 0365\Causeway\15% DR PDFs\C301-CLA-0000-ST-SKT-10001.dwg Plotted By: Burgess, Brent



PILE DETAILS								
BRIDGE	LOCATION	PILE TYPE	DIAMETER (mm)	N° OF PILES	TOP OF PILE RL (m AHD)	PILE LENGTH 'L' (m)	MIN. EMBEDMENT INTO KINGS PARK FORMATION (m)	ESTIMATED TOP OF KINGS PARK FORMATION (m AHD)
MCCALLUM PARK (BRIDGE 9505)	PYLON N° 1	DRIVEN STEEL TUBE PILE	1200	6	0.0	28.5	-	-29.0
	PYLON N° 2	DRIVEN STEEL TUBE PILE	1200	6	0.0	25.0	2.0	-23.0
POINT FRASER (BRIDGE 9506)	PYLON N° 1	DRIVEN STEEL TUBE PILE	1200	6	0.0	30.0	-	-38.0

NOTES:
1. REFER DRG. C301-CLA-0000-ST-SKT-20002 FOR GEOTECHNICAL NOTES.

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



Level 5
503 Murray Street
Perth WA 6000
Telephone +61 8 9489
9700 Facsimile +61 8 9489
9777 Email:
perth@wsp.com

DRAWN	B.BURGESS	21.07.22
DESIGNED	C.CHANG	21.07.22
CHECKED	G.DUPLESSIS	21.07.22
APPROVED	W.SCHWARZ	21.07.22
DRAWING PATH		

VERIFIER



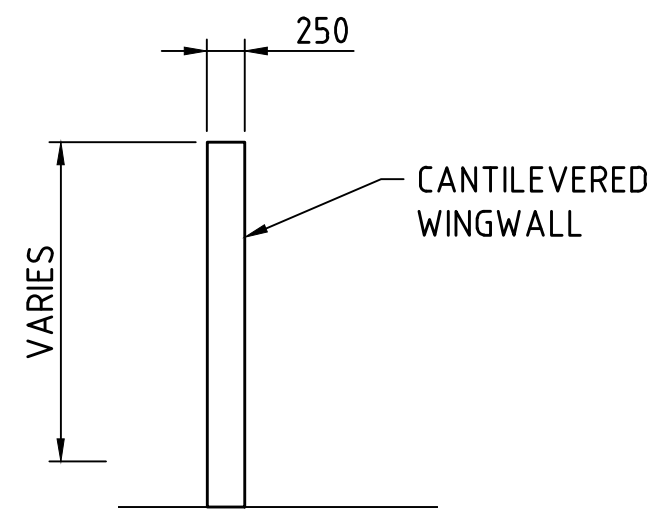
INFRASTRUCTURE DELIVERY DIRECTORATE

CONTRACT MANAGER	DATE	CONTRACT MANAGER	DATE
PROJECT DIRECTOR	DATE	PROJECT DIRECTOR	DATE

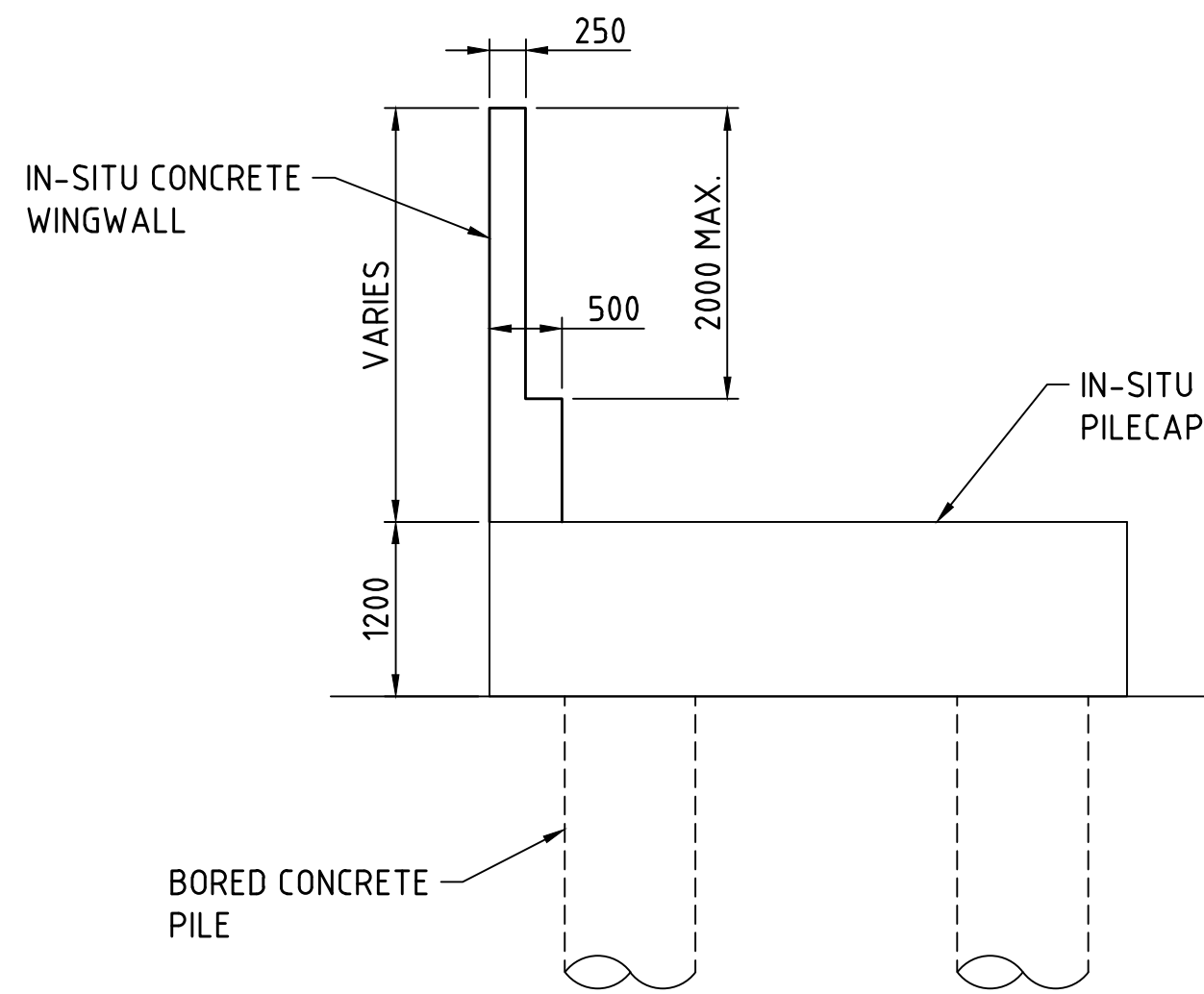
FOR INFORMATION ONLY

LOCAL AUTHORITY	124 - CITY OF PERTH, 125 - TOWN OF VICTORIA PARK	MAIN ROADS RESPONSIBILITY AREA	METROPOLITAN REGION
MRWA DRAWING NUMBER			
PROJECT TITLE	CAUSEWAY LINK ALLIANCE		
DRAWING TITLE	CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE PROJECT WIDE TYPICAL PYLON PILE DETAILS		
DRAWING STATUS	15%	DRAWING No.	C301-CLA-0000-ST-SKT-10001
SHEET	A1	REV	A

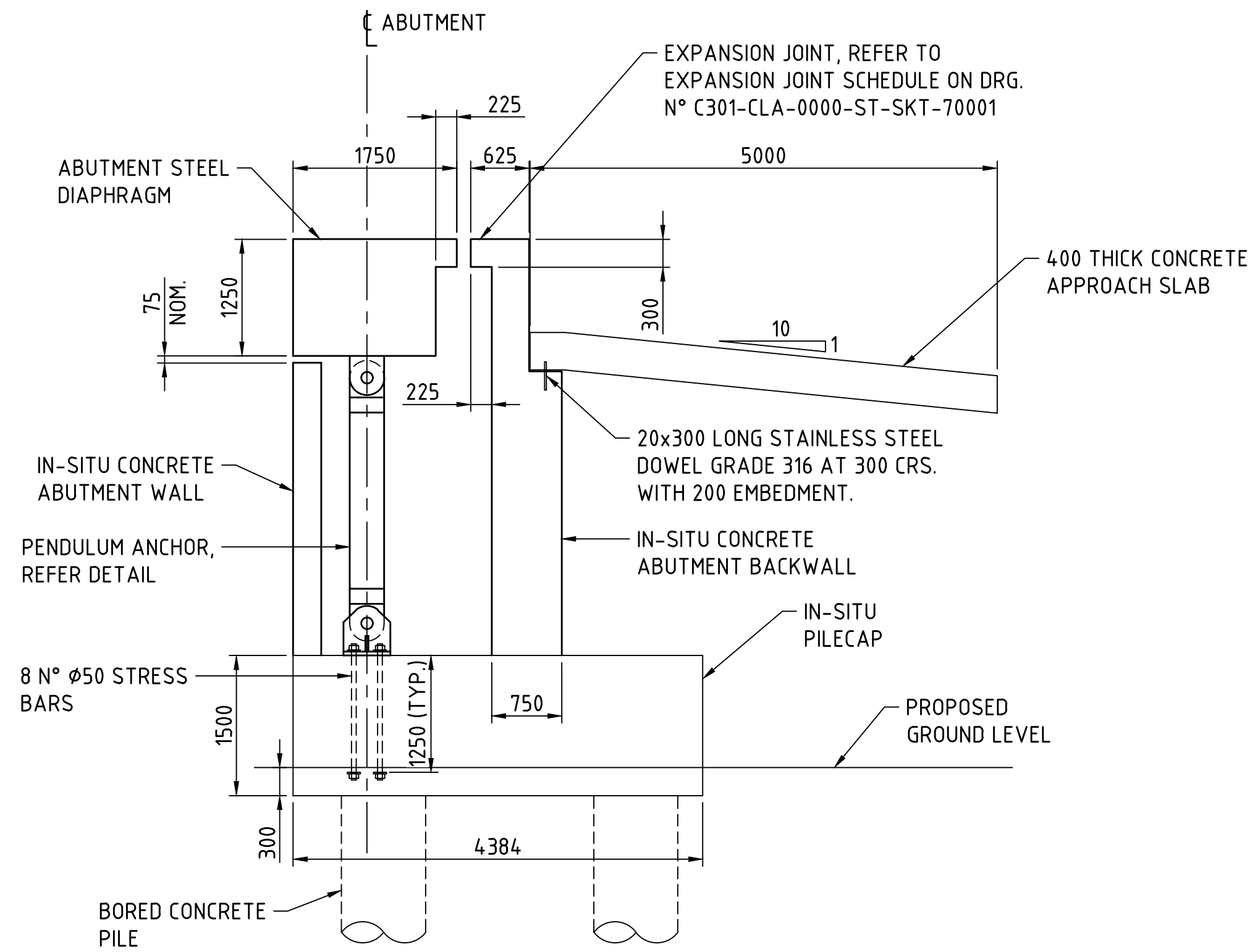
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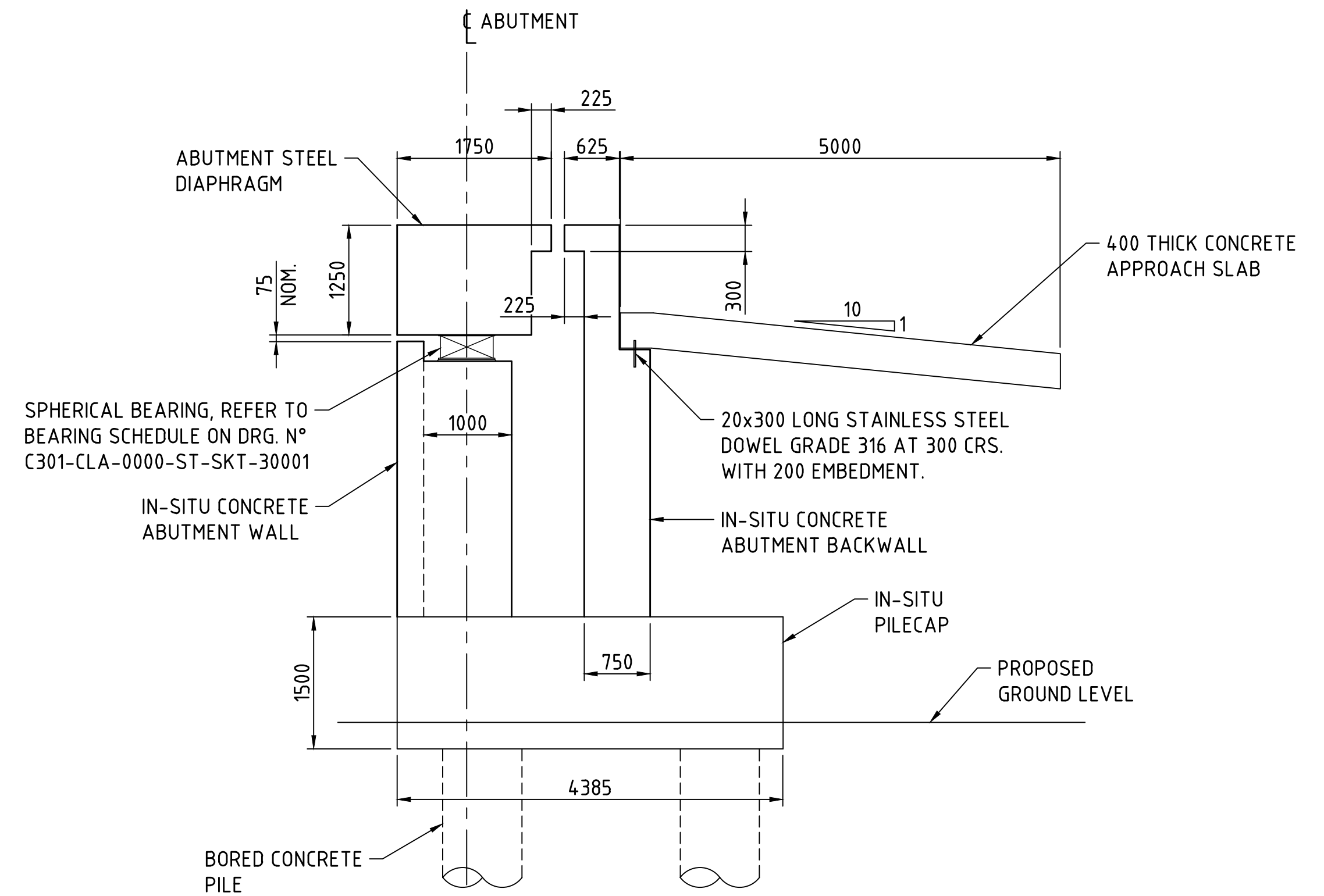
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C301-CLA-2000-ST-SKT-10102



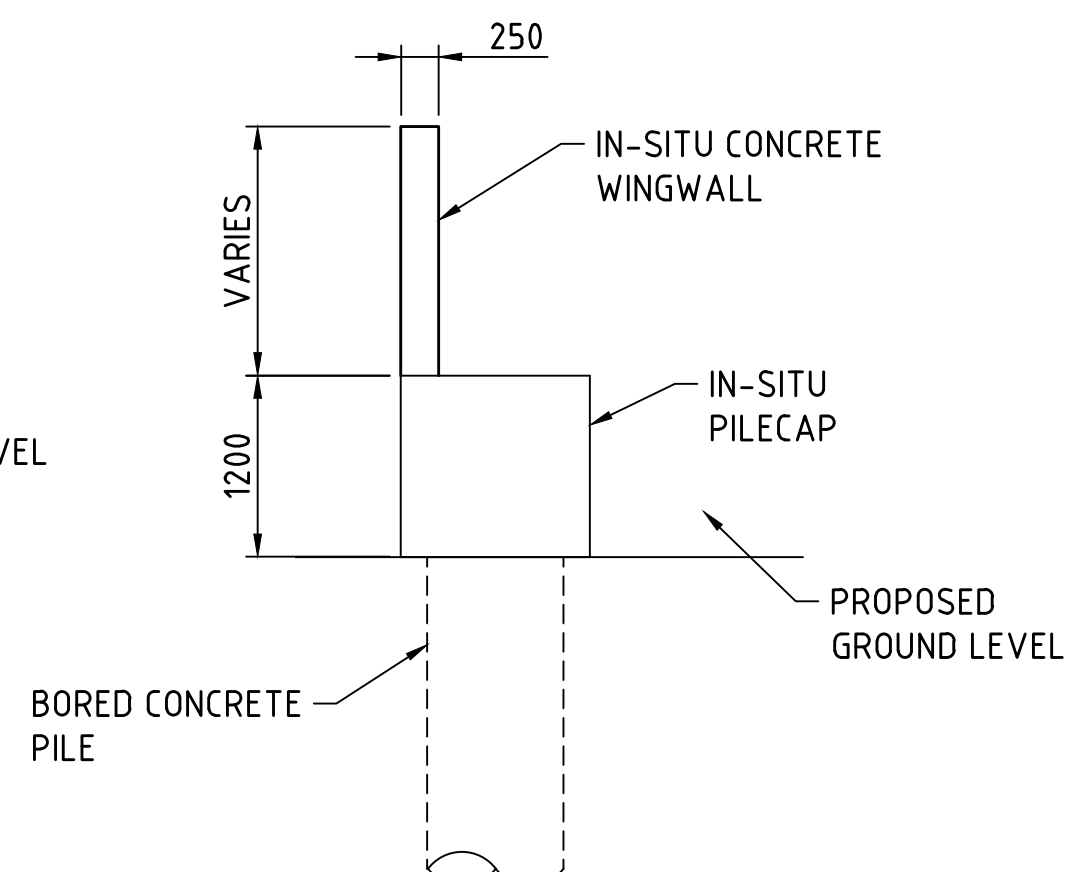
SECTION E
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C301-CLA-2000-ST-SKT-10102



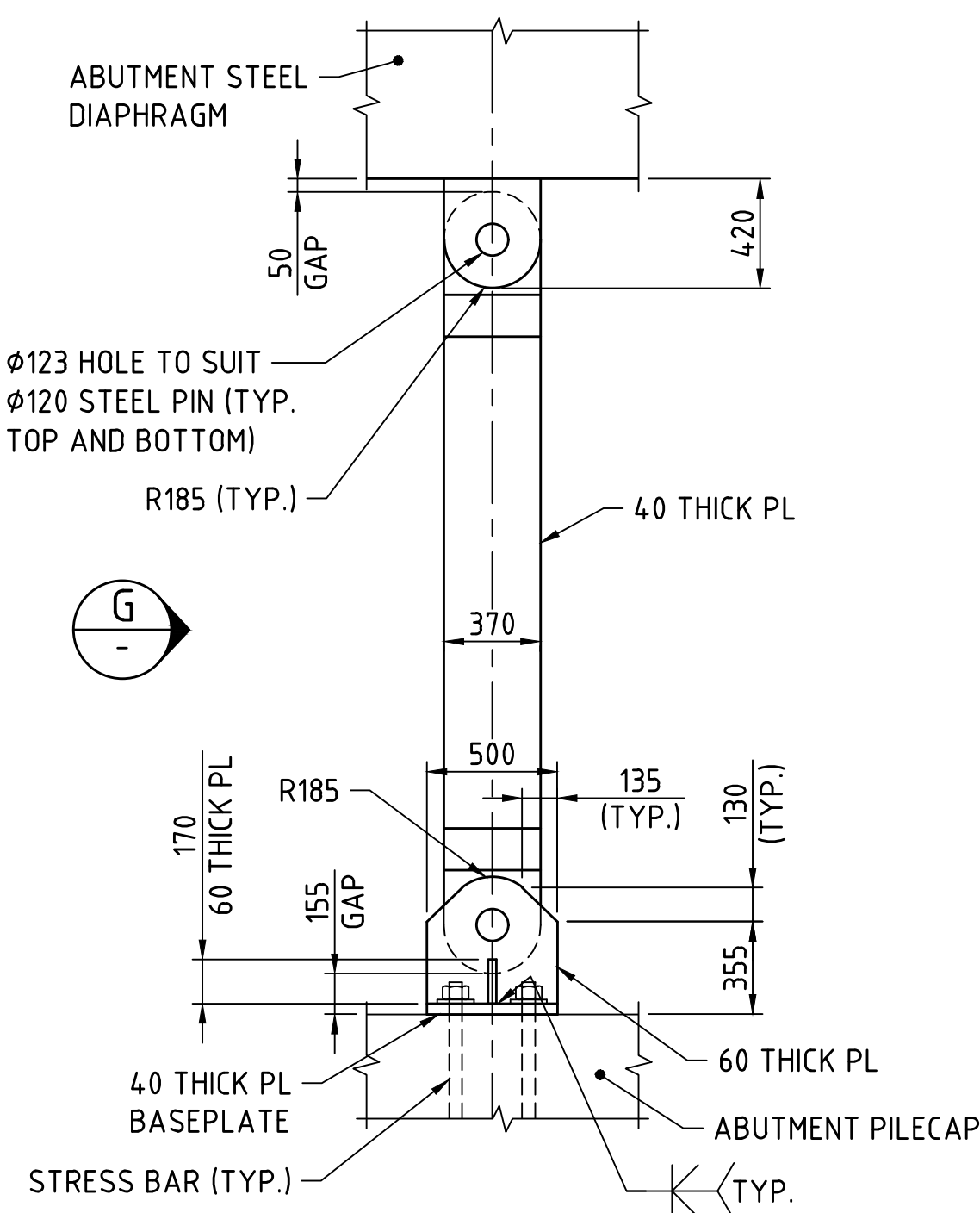
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C301-CLA-2000-ST-SKT-10102



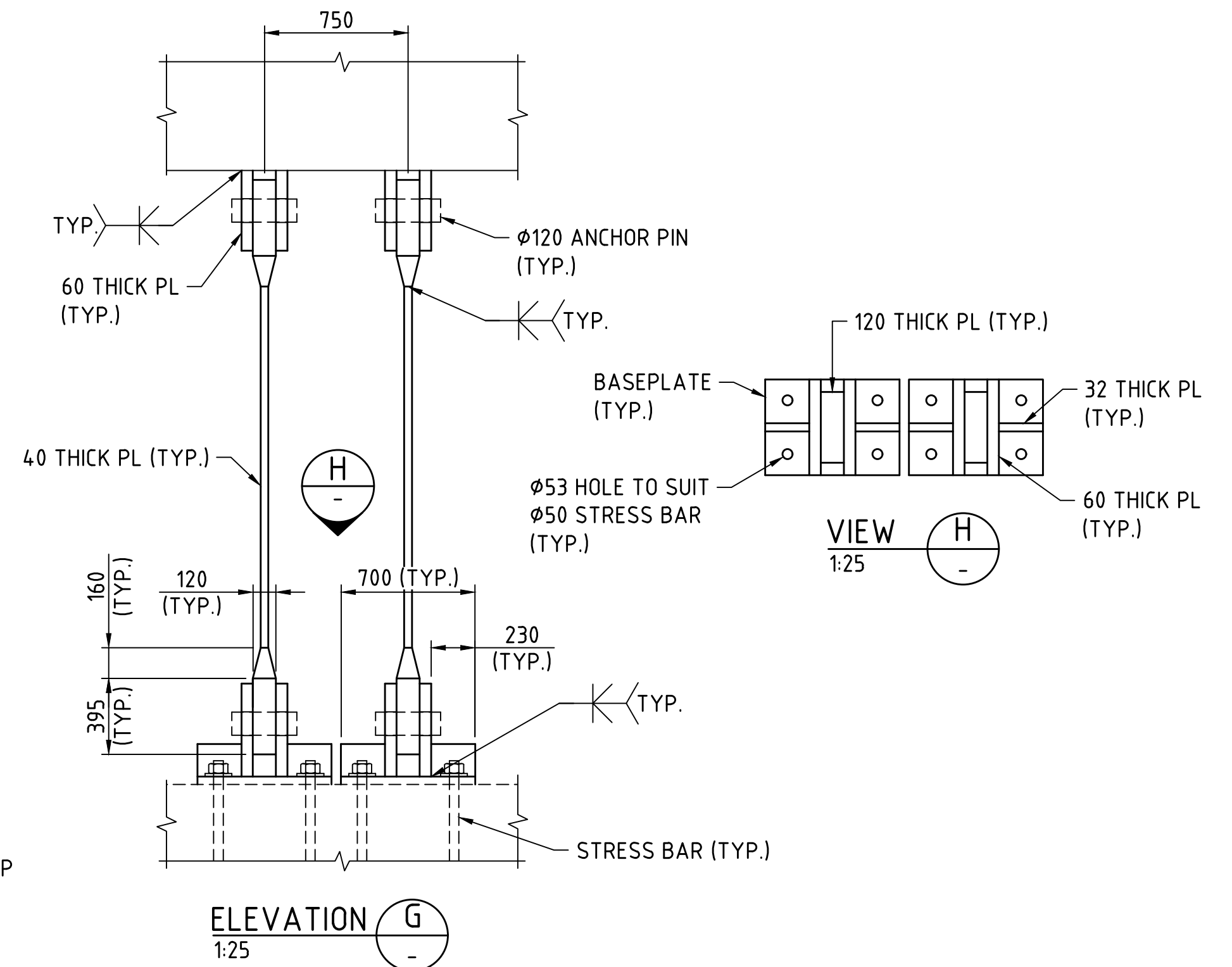
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1:50 C301-CLA-1000-ST-SKT-10102
C301-CLA-2000-ST-SKT-10102



SECTION F
1:50 C301-CLA-1000-ST-SKT-10102
C301-CLA-2000-ST-SKT-10102



PENDULUM BEARING SECTION
1:25



ELEVATION G
1:25

FOR INFORMATION ONLY

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



Level 5
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Perth WA 6000
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9700 Facsimile +61 8 9489
9777 Email:
perth@wsp.com

DRAWN: B.BURGESS 21.07.22
DESIGNED: C.CHANG 21.07.22
CHECKED: G.DUPLESSIS 21.07.22
APPROVED: W.SCHWARZ 21.07.22
DRAWING PATH: VERIFIED
DATE: PROJECT DIRECTOR

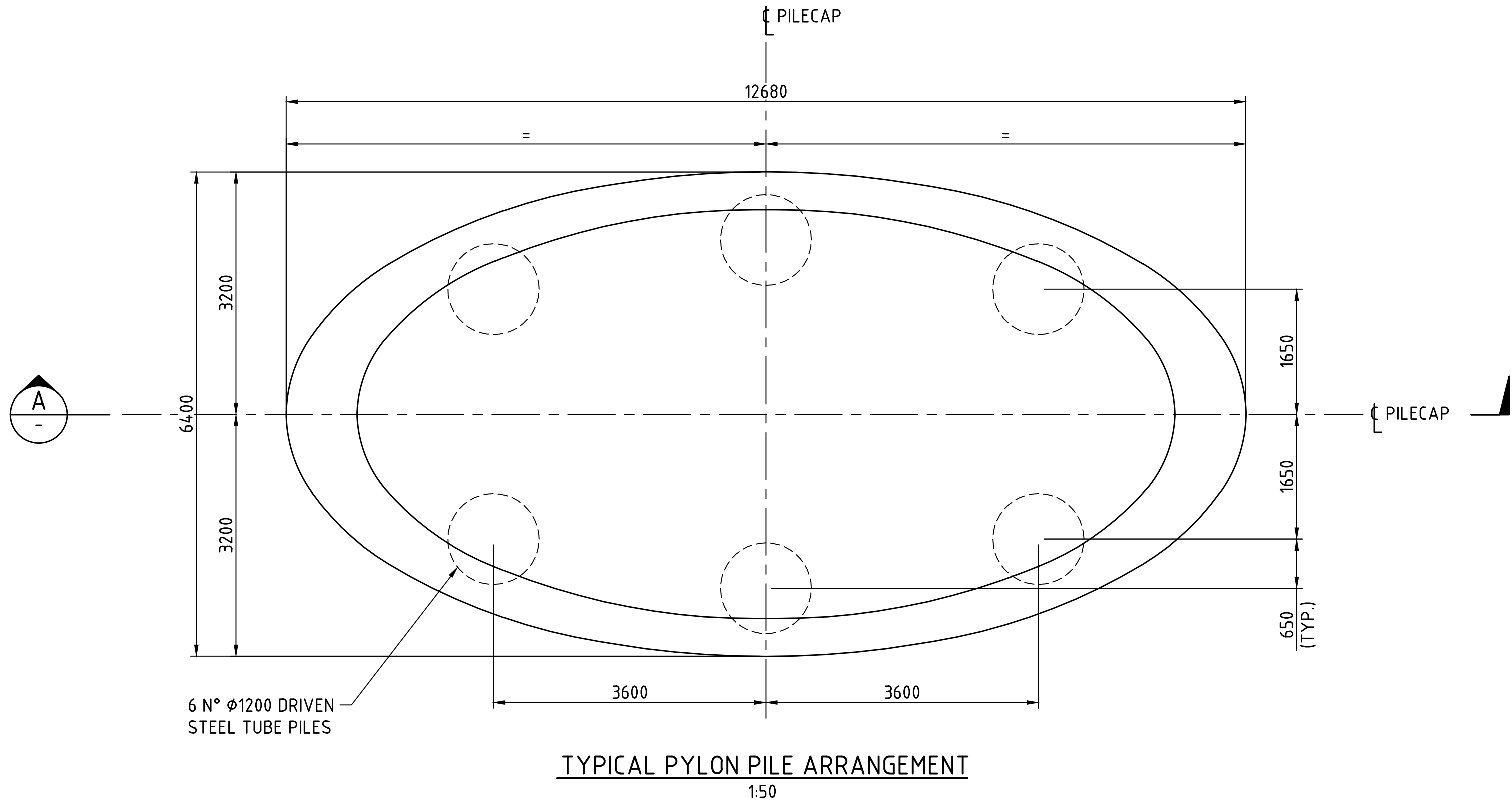
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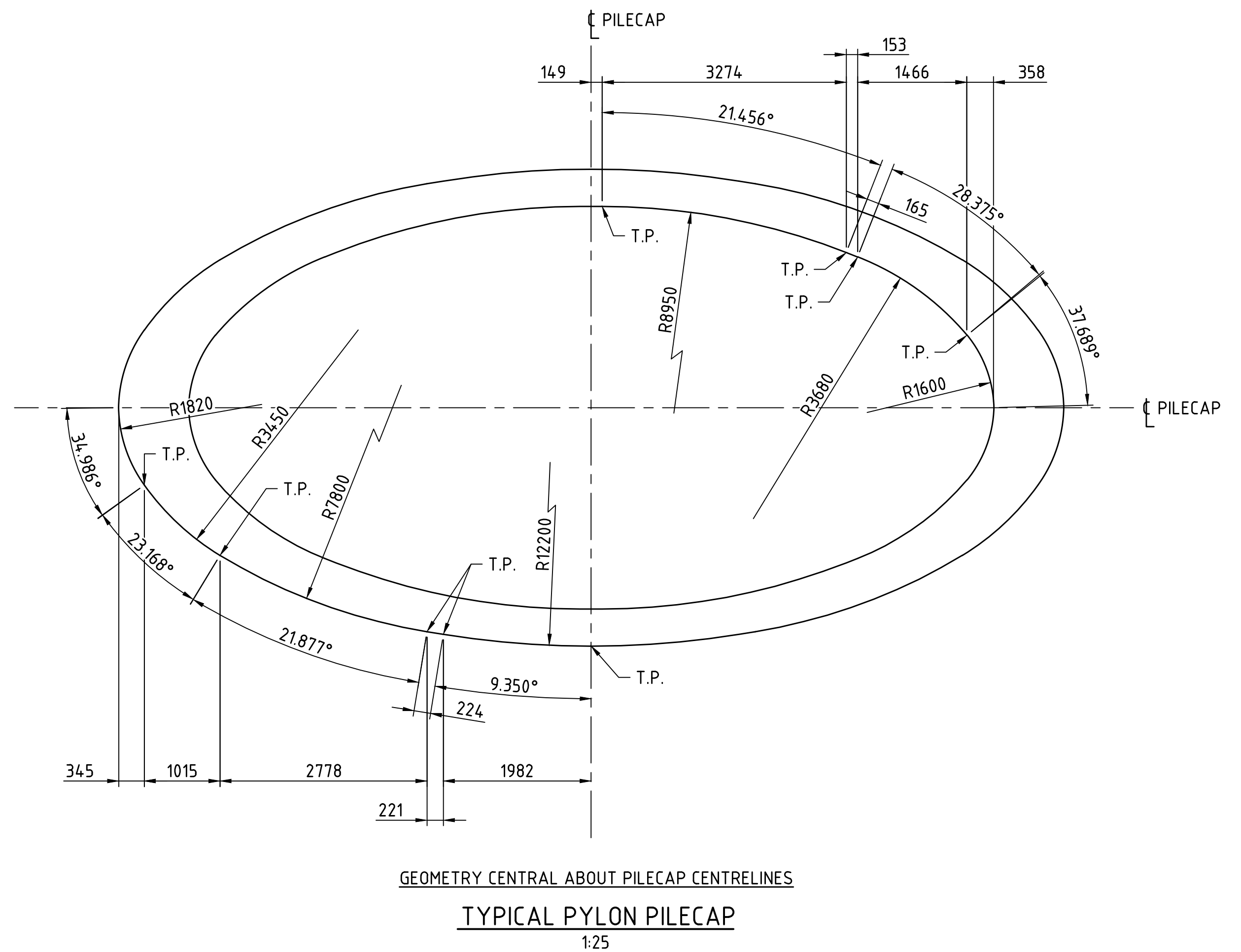
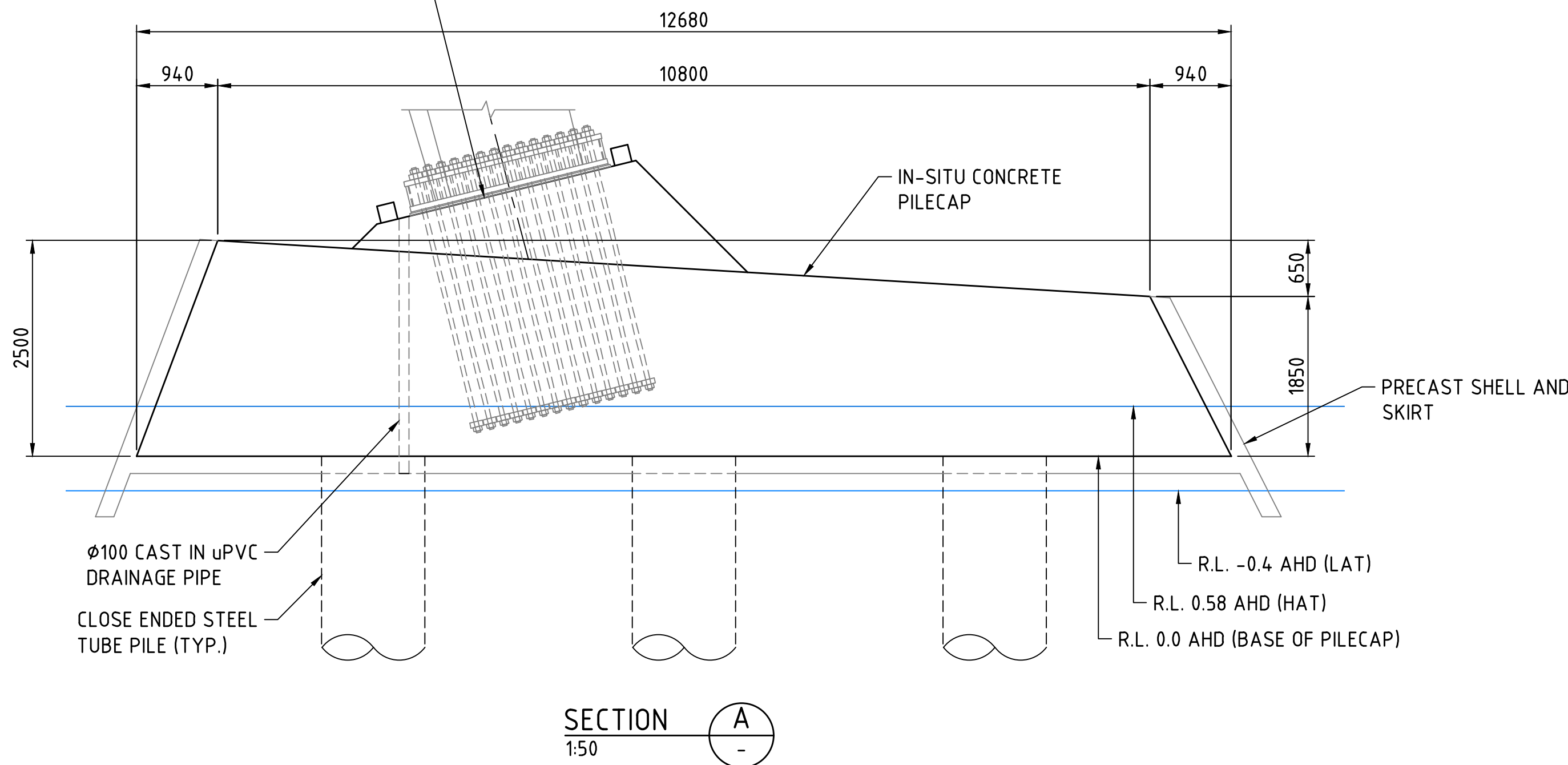
INFRASTRUCTURE DELIVERY DIRECTORATE

LOCAL AUTHORITY: 124 - CITY OF PERTH, 125 - TOWN OF VICTORIA PARK
MRWA DRAWING NUMBER: PROJECT TITLE: CAUSEWAY LINK ALLIANCE
DRAWING TITLE: CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE
PROJECT WIDE TYPICAL DETAILS ABUTMENT SECTIONS
DRAWING STATUS: 15%
DRAWING No: C301-CLA-0000-ST-SKT-20001
SHEET A1

Plot Date: 22/07/2022 8:37 AM C:\Users\burgess\OneDrive - WSP 0365\Causeway Link\Drawings\15% DR PDFs\C301-CLA-0000-ST-SKT-20002.dwg Plotted By: Burgess, Brent



REFER DRG. N° C301-CLA-2000-ST-SKT-20101 & C301-CLA-1000-ST-SKT-10201 FOR PYLON BASE PLAN ARRANGEMENT



GEOTECHNICAL NOTES:

- GEOTECHNICAL STRENGTH REDUCTION FACTOR WAS ASSESSED ASSUMING THAT A MINIMUM OF 5% OF TOTAL PILES WILL BE SUBJECT TO DYNAMIC PILE LOAD TESTING WITH CAPWAP ANALYSIS FOR BOTH DRIVEN AND BORED PILE OPTIONS.
- GEOTECHNICAL STRENGTH REDUCTION FACTOR OF 0.72 WAS APPLIED TO THE DRIVEN STEEL TUBE PILES TO CALCULATE THE MINIMUM REQUIRED DESIGN GEOTECHNICAL STRENGTH ($R_{0.72}$).
- GEOTECHNICAL STRENGTH REDUCTION FACTOR OF 0.69 WAS APPLIED TO THE BORED PILES TO CALCULATE THE MINIMUM REQUIRED DESIGN GEOTECHNICAL STRENGTH ($R_{0.69}$).
- FOR DRIVEN STEEL TUBE PILES, A DRIVING RECORD OF BLOWS/250 MM, HAMMER STROKE AND THE TIME FOR THE FULL DRIVING OF ALL PILES SHALL BE MADE BY THE CONTRACTOR AND PROVIDED AT THE END OF DRIVE OF EACH PILE.
- AN EXPERIENCED GEOTECHNICAL ENGINEER SHALL WITNESS THE END OF DRIVING AND THE PDA TESTING.
- END OF DRIVE (EOD) TEST AND BEGINNING OF RESTRIKE TEST (IF APPLICABLE) SHALL BE PERFORMED ON THE 1ST INSTALLED PILE AT EACH PYLON TO ASSESS PILE CAPACITY AND DETERMINE THE APPROPRIATE SET CRITERIA TO ACHIEVE LONG TERM CAPACITY. BASED ON THE DRIVING BEHAVIOUR AND PDA/CAPWAP TESTING OF THE FIRST DRIVEN PILE, GOLDBER IN CONJUNCTION WITH THE PILING CONTRACTOR SHALL ASSESS TARGET END OF DRIVE SET CRITERIA FOR THE OTHER PILES IN EACH GROUP.
- VISUAL INSPECTION SHALL BE UNDERTAKEN ON 100% OF STEEL PILES AFTER DRIVING AND PRIOR TO CONCRETING. THIS SHALL INCLUDE DIPPING TO THE PILE TOE TO CHECK FOR WATER AND/OR SOIL INGRESS.
- SUPERVISION OF CONCRETING WORKS SHALL BE UNDERTAKEN ON 100% OF PILES AND SHALL INCLUDE RECORDING CONCRETE VOLUME PUMPED INTO EACH PILE AND MEASURING THE RATE OF RISE OF THE SURFACE OF THE CONCRETE INSIDE THE PILES. THESE RECORDS SHALL BE USED TO ASSESS ANY ANOMALIES IN THE CONCRETE WORKS.
- DRIVEABILITY TO BE PERFORMED BY THE PILING CONTRACTOR AND REVIEWED BY GEOTECHNICAL DESIGN ENGINEER.

FOR INFORMATION ONLY

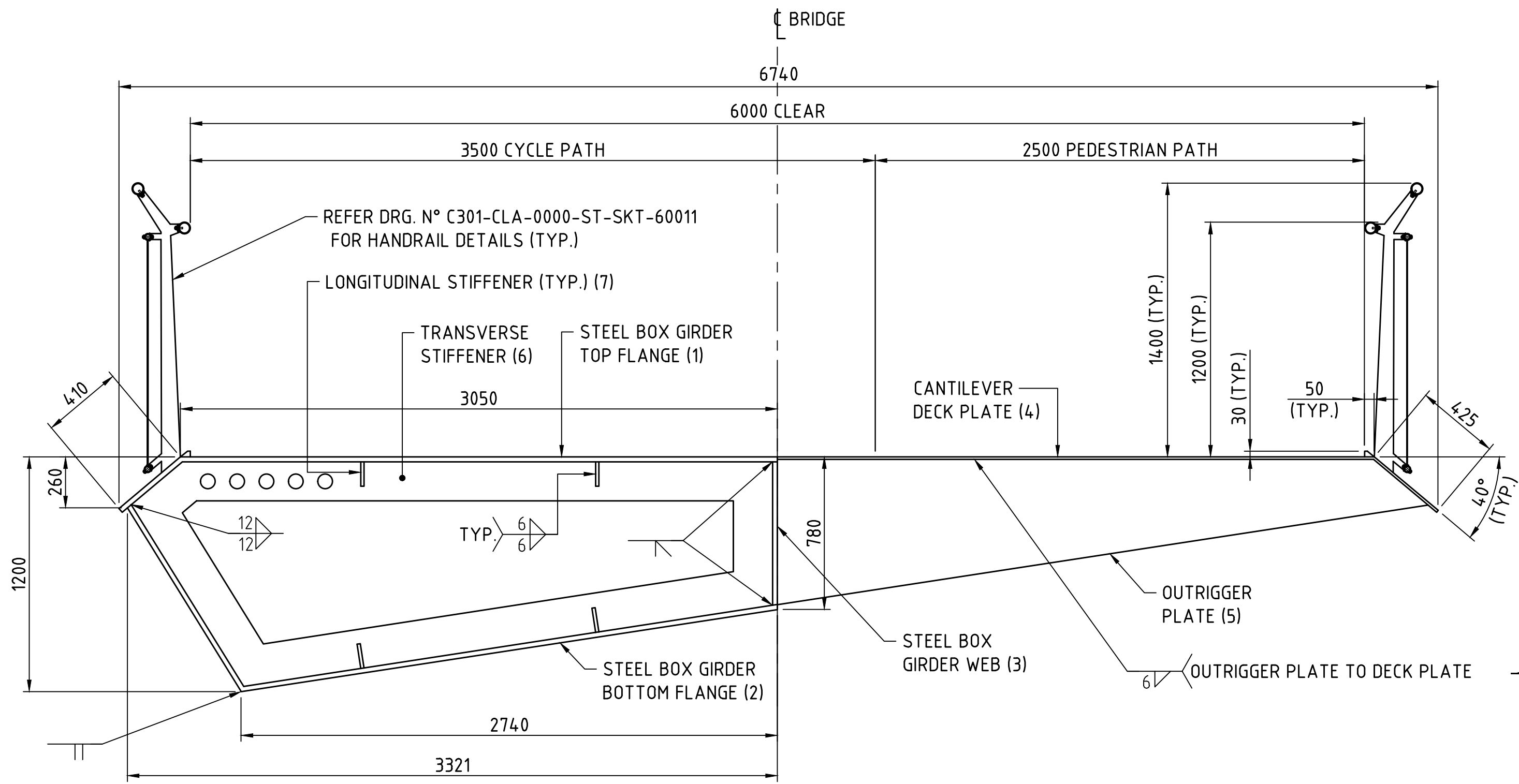
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				GROUND SURVEY STANDARD:				DESIGNED: C.CHANG 21.07.22		VERIFIER		Causeway Link Alliance		PROJECT TITLE: CAUSEWAY LINK ALLIANCE	
				DATE OF CAPTURE:				CHECKED: G.DUPLESSIS 21.07.22						DRAWING TITLE: CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE	
				MAPPING SURVEY STANDARD:				APPROVED: W.SCHWARZ 21.07.22						PROJECT WIDE	
				DATE OF CAPTURE:				DRAWING PATH						TYPICAL PYLON PILECAP DETAILS	
A		ISSUED FOR 15% DESIGN REVIEW		W.S. 21.07.22		MAIN ROADS PROJECT ZONE: PCG94						INFRASTRUCTURE DELIVERY DIRECTORATE		DRAWING STATUS: 15%	
No.		DESCRIPTION		APPROVED & DATE		HEIGHT DATUM: AHD71								DRAWING No. C301-CLA-0000-ST-SKT-20002	
		AMENDMENTS												SHEET A1	
														REV A	

			BEARING SCHEDULE													
			ULS							SLS						
BRIDGE	LOCATION	BEARING TYPE	BEARING (kN) COMPRESSION	BEARING (kN) TENSION	BEARING TRANSVERSE (kN)	BEARING LONGITUDINAL (kN)	LONGITUDINAL MOVEMENT (TOWARDS PYLON) (mm)	LONGITUDINAL MOVEMENT (AWAY PYLON) (mm)	ROTATION (RAD)	LONGITUDINAL (EXTREME EVENT) (SHIP IMPACT AND EARTHQUAKE) (mm)	BEARING (kN) COMPRESSION	BEARING (kN) TENSION	BEARING TRANSVERSE (kN)	BEARING LONGITUDINAL (kN)	LONGITUDINAL MOVEMENT (TOWARDS PYLON) (mm)	LONGITUDINAL MOVEMENT (AWAY PYLON) (mm)
POINT FRASER (BRIDGE 9506)	ABUTMENT 1	LONGITUDINAL GUIDED	750	-	300	-	40	25	0.015	+/- 60	500	-	50	-	30	20
		FREE	250	-	-	-	40	25	0.015	+/- 60	100	-	-	-	30	20
	HALVING JOINT	LONGITUDINAL GUIDED	1300	-	550	-	75	45	0.02	+/- 120	1000	-	400	-	50	30
		PIN	-	8700	1200	700	-	-	0.03	-	-	6200	900	400	-	-
	PIER 3	PIN	5150	-	1200	700	-	-	0.03	-	3400	-	900	400	-	-
		FIXED	1000	1000	3200 (VERTICAL)	1100 (HORIZONTAL)	-	-	0.02	-	350	300	2550 (VERTICAL)	350 (HORIZONTAL)	-	-
	PYLON (HORIZONTAL BEARING)	PENDULUM ANCHOR	-	3050	-	-	60	135	0.05	+/- 140	-	2150	-	-	35	100
		LONGITUDINAL GUIDED	4400	-	1250	-	60	135	0.05	+/- 140	3000	-	750	-	35	100
MCCALLUM PARK (BRIDGE 9505)	ABUTMENT 1	PENDULUM ANCHOR	-	6650	-	-	90	60	0.05	+/- 110	-	4450	-	-	40	30
		LONGITUDINAL GUIDED	4100	-	1950	-	90	60	0.05	+/- 110	2500	-	1350	-	40	30
	PYLON 1 (HORIZONTAL BEARING)	FIXED	1950	600	6350 (VERTICAL)	4450 (HORIZONTAL)	-	-	0.02	-	1550	300	4750 (VERTICAL)	2650 (HORIZONTAL)	-	-
		FIXED	1950	600	6350 (VERTICAL)	4450 (HORIZONTAL)	-	-	0.02	-	1550	300	4750 (VERTICAL)	2650 (HORIZONTAL)	-	-
	PYLON 2 (HORIZONTAL BEARING)	PENDULUM ANCHOR	-	6650	-	-	90	60	0.05	+/- 110	-	4450	-	-	40	30
		LONGITUDINAL GUIDED	4100	-	1950	-	90	60	0.05	+/- 110	2500	-	1350	-	40	30
	ABUTMENT 2	PENDULUM ANCHOR	-	6650	-	-	90	60	0.05	+/- 110	-	4450	-	-	40	30
		LONGITUDINAL GUIDED	4100	-	1950	-	90	60	0.05	+/- 110	2500	-	1350	-	40	30

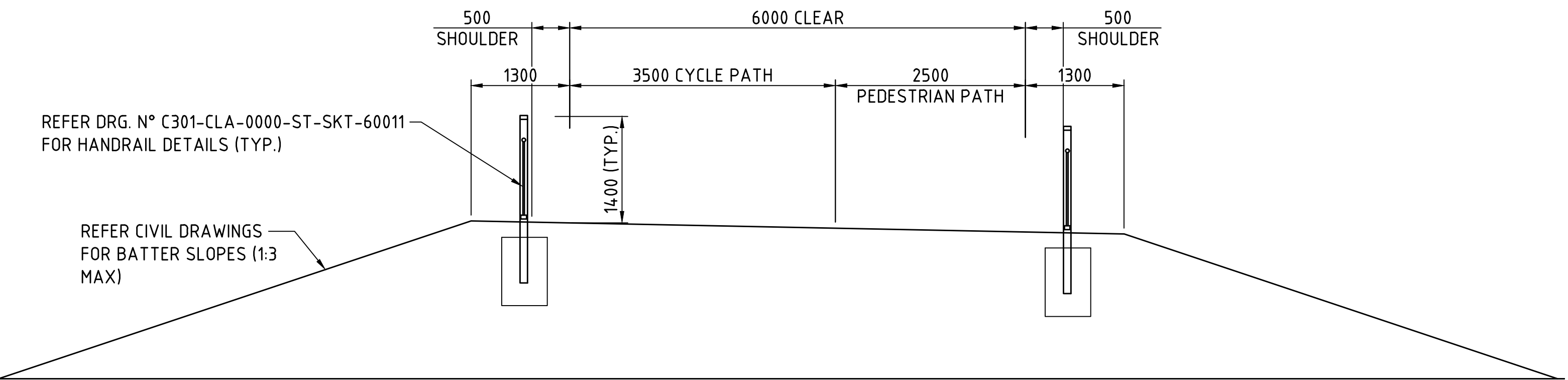


Plot Plotted By: Burgess, Brent			METADATA		 Level 5 503 Murray Street Perth WA 6000 Telephone +61 8 9489 9700 Facsimile +61 8 9489 9777 Email: perth@wsp.com	DRAWN B.BURGESS 21.07.22		  INFRASTRUCTURE DELIVERY DIRECTORATE	LOCAL AUTHORITY 13 - CITY OF PERTH, 124 - TOWN OF VICTORIA PARK		MAIN ROADS RESPONSIBILITY AREA 			
			GROUND SURVEY STANDARD: DATE OF CAPTURE: MAPPING SURVEY STANDARD: DATE OF CAPTURE:	DESIGNED C.CHANG 21.07.22		VERIFIER			MRWA DRAWING NUMBER		PROJECT TITLE CAUSEWAY LINK ALLIANCE			
				CHECKED G.DUPLESSIS 21.07.22					DRAWING TITLE CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE PROJECT WIDE BEARING SCHEDULE				SHEET A1	
	A ISSUED FOR 15% DESIGN REVIEW W.S 21.07.22			APPROVED W.SCHWARZ 21.07.22										
	No. DESCRIPTION APPROVED & DATE		MAIN ROADS PROJECT ZONE: PCG94 HEIGHT DATUM: AHD71	DRAWING PATH VERIFIED DATE					CONTRACT MANAGER DATE	CONTRACT MANAGER DATE	DRAWING STATUS 15%	DRAWING No. C301-CLA-0000-ST-SKT-30001		REV A
	AMENDMENTS					PROJECT DIRECTOR DATE	PROJECT DIRECTOR DATE							

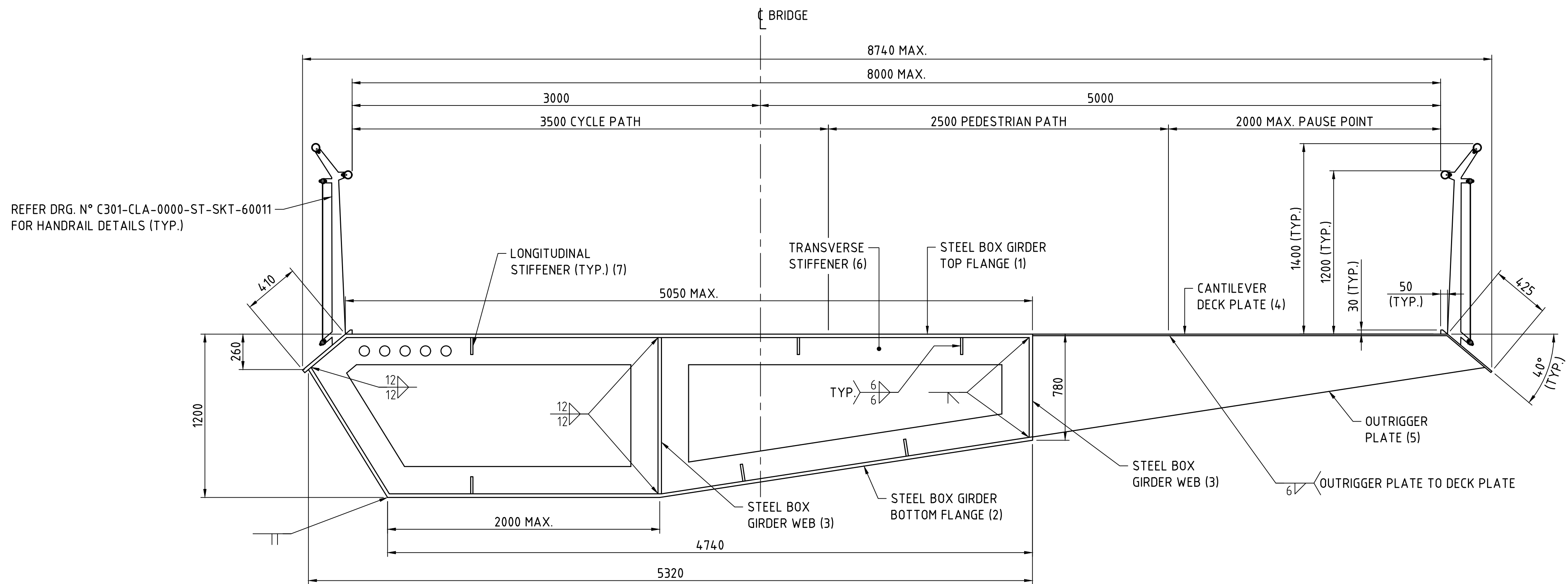
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TYPICAL DECK SECTION
1:20



TYPICAL EMBANKMENT SECTION
1:50



TYPICAL PAUSE POINT DECK SECTION
1:20

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



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DESIGNED	C.CHANG	21.07.22
CHECKED	G.DUPLESSIS	21.07.22
APPROVED	W.SCHWARZ	21.07.22
DRAWING PATH	VERIFIED	DATE

VERIFIER

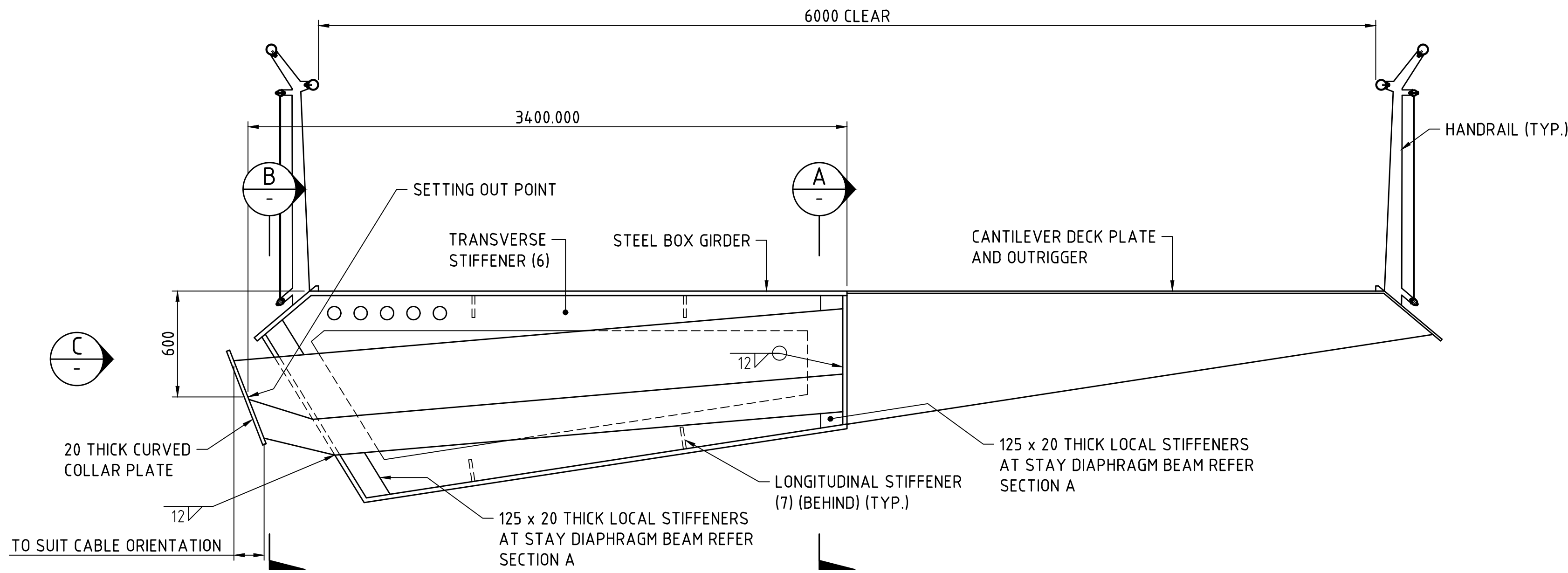


INFRASTRUCTURE DELIVERY DIRECTORATE

CONTRACT MANAGER
PROJECT DIRECTOR

DATE
DATE

LOCAL AUTHORITY	124 - CITY OF PERTH, 125 - TOWN OF VICTORIA PARK	MAIN ROADS RESPONSIBILITY AREA	METROPOLITAN REGION
MRWA DRAWING NUMBER	PROJECT TITLE CAUSEWAY LINK ALLIANCE		
DRAWING TITLE	CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE PROJECT WIDE TYPICAL DETAILS DECK SECTIONS		
DRAWING STATUS 15%	DRAWING No. C301-CLA-0000-ST-SKT-40001	SHEET A1	

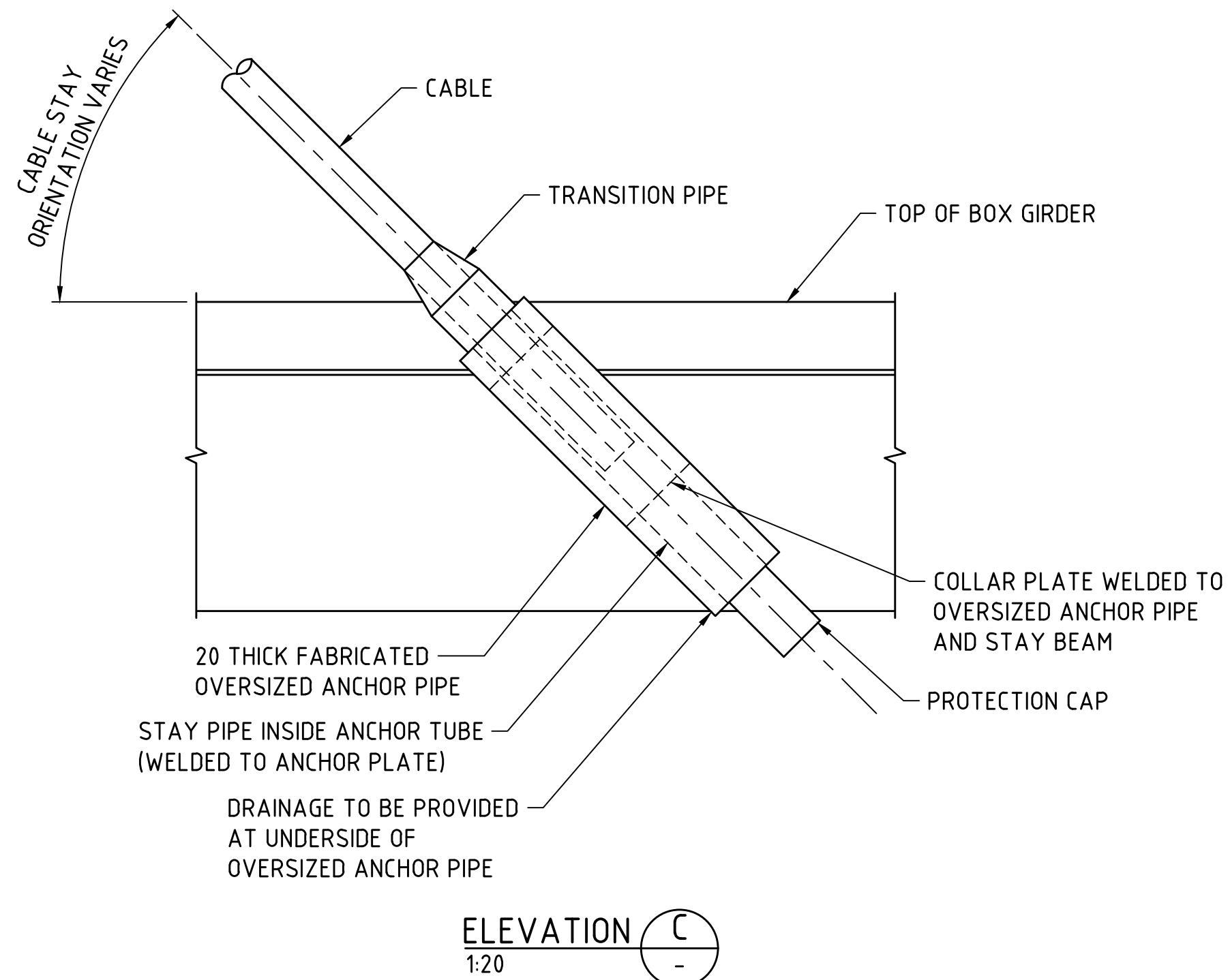
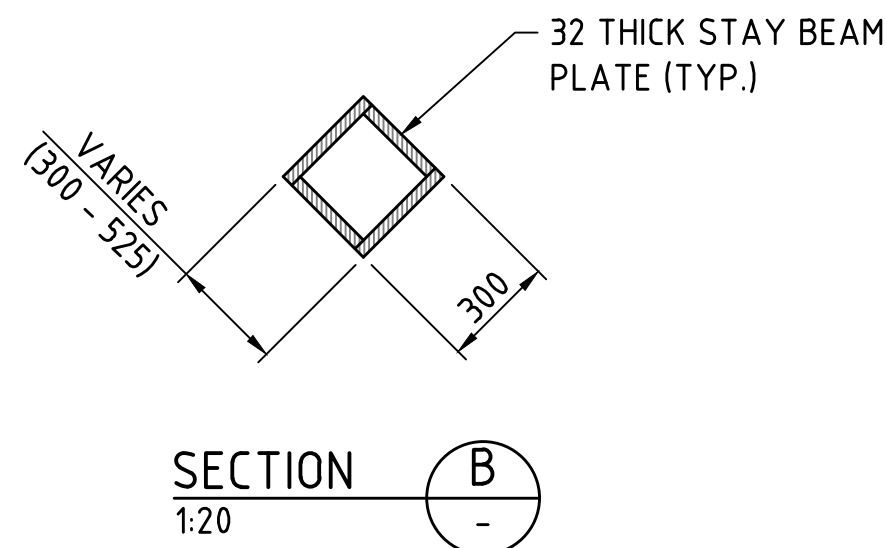
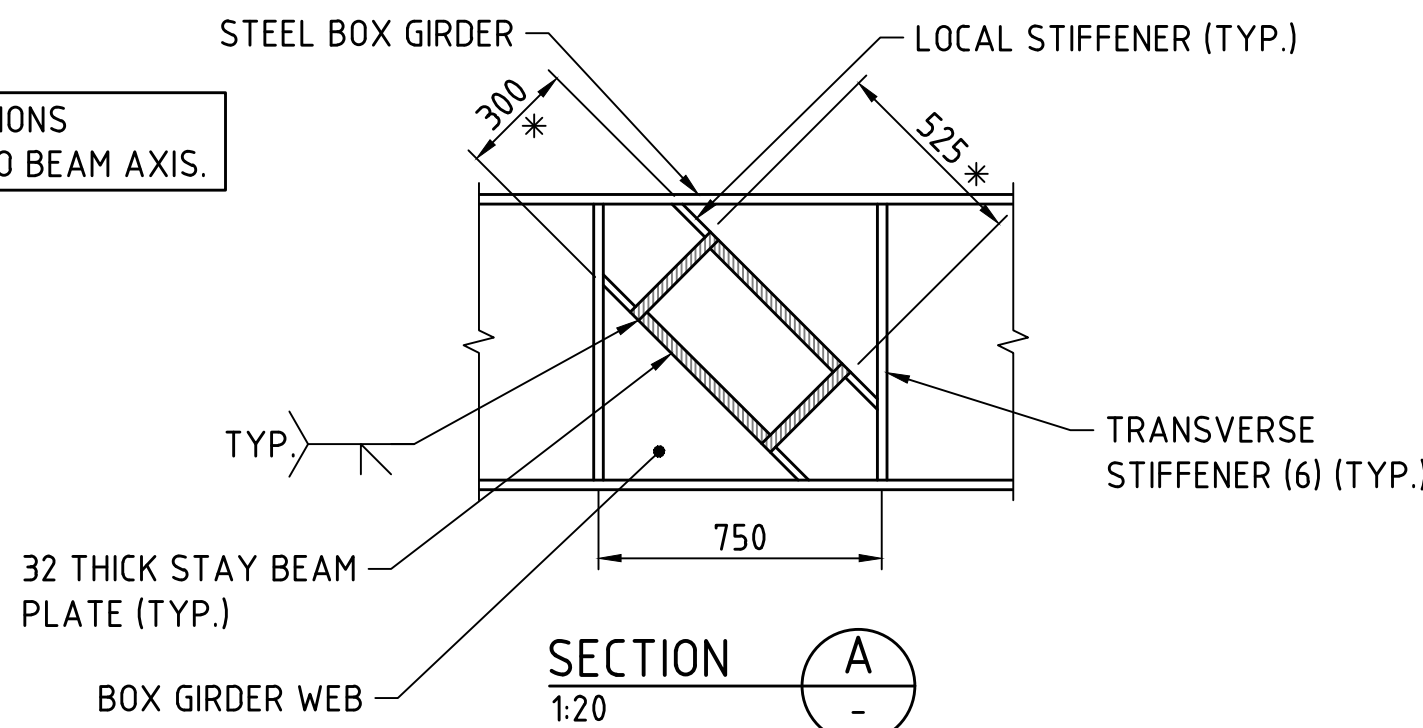


CABLE AND ANCHOR PIPE OMITTED FOR CLARITY

TYPICAL SECTION

1:20

* SECTION DIMENSIONS
PERPENDICULAR TO BEAM AXIS.



METADATA

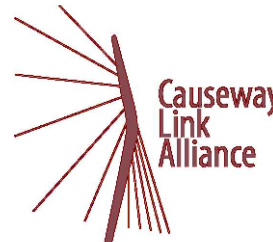
GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



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DRAWN B.BURGESS 21.07.22
DESIGNED C.CHANG 21.07.22
CHECKED G.DUPLESSIS 21.07.22
APPROVED W.SCHWARZ 21.07.22
DRAWING PATH

VERIFIER



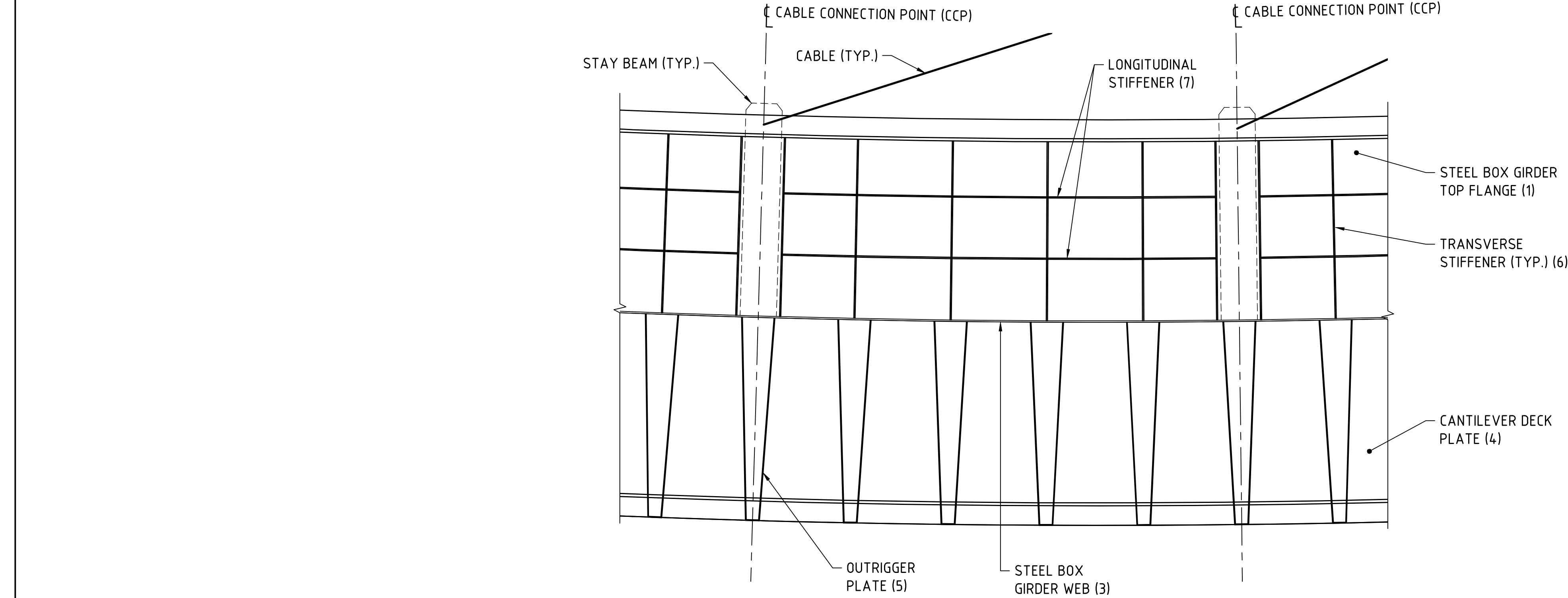
INFRASTRUCTURE DELIVERY DIRECTORATE

FOR INFORMATION ONLY

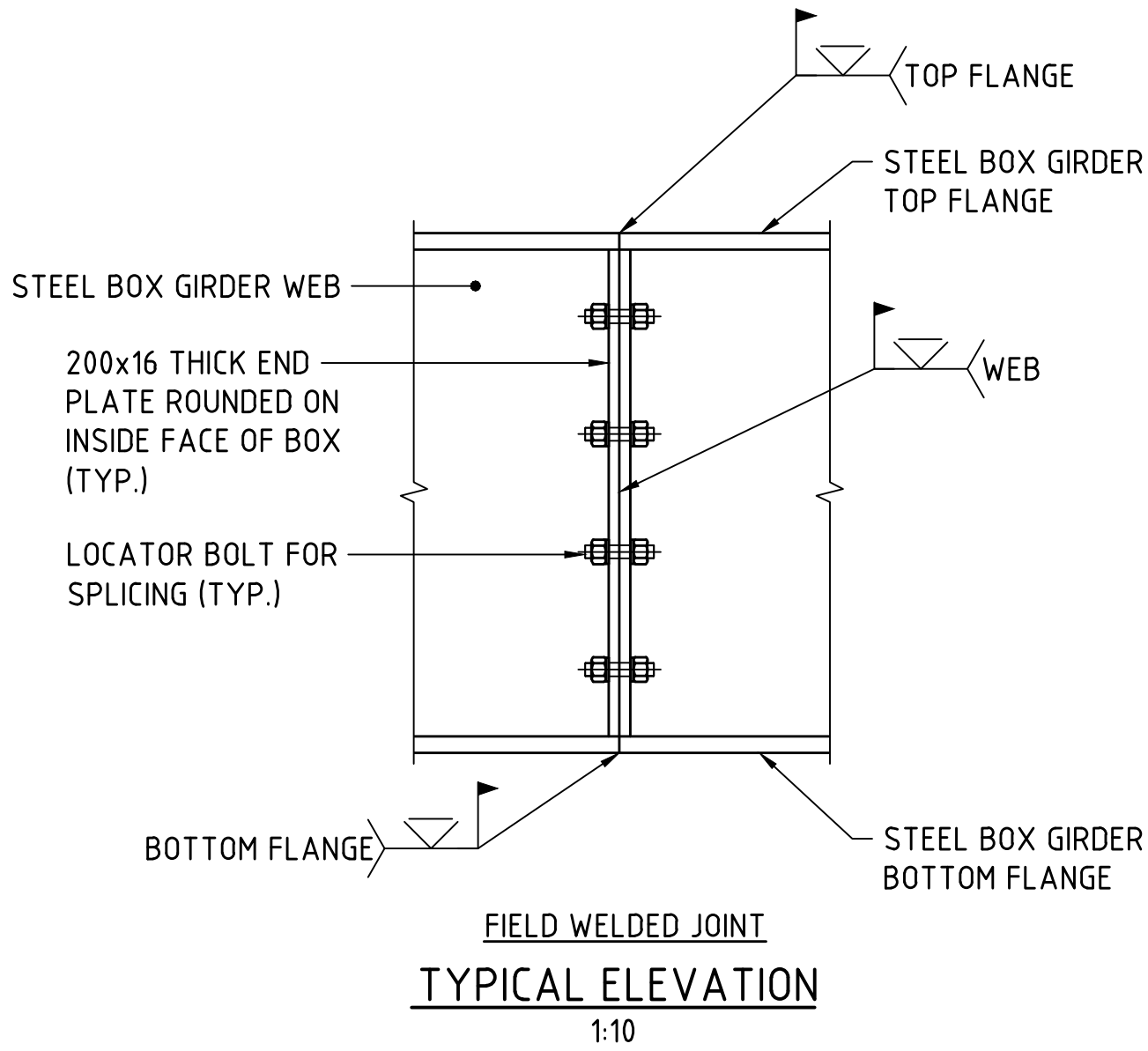
LOCAL AUTHORITY	124 - CITY OF PERTH, 125 - TOWN OF VICTORIA PARK	MAIN ROADS RESPONSIBILITY AREA	METROPOLITAN REGION
MRWA DRAWING NUMBER			
PROJECT TITLE	CAUSEWAY LINK ALLIANCE		
DRAWING TITLE	CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE PROJECT WIDE TYPICAL DETAILS CABLE TO DECK CONNECTION		
DRAWING STATUS	15%	DRAWING No.	C301-CLA-0000-ST-SKT-40002

1:20 0 200mm 400 600 800 1000 1200 1400 1600 1800 2000

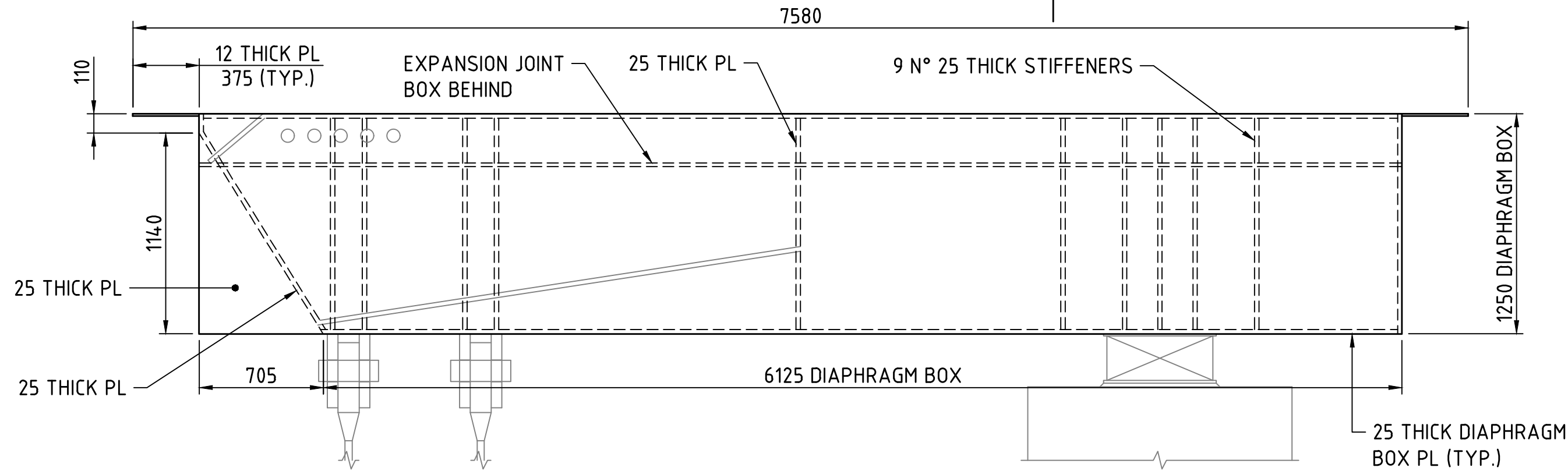
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1. FOR DECK PLATE THICKNESS REFER DRG N° C301-CLA-0000-ST-SKT-40006.



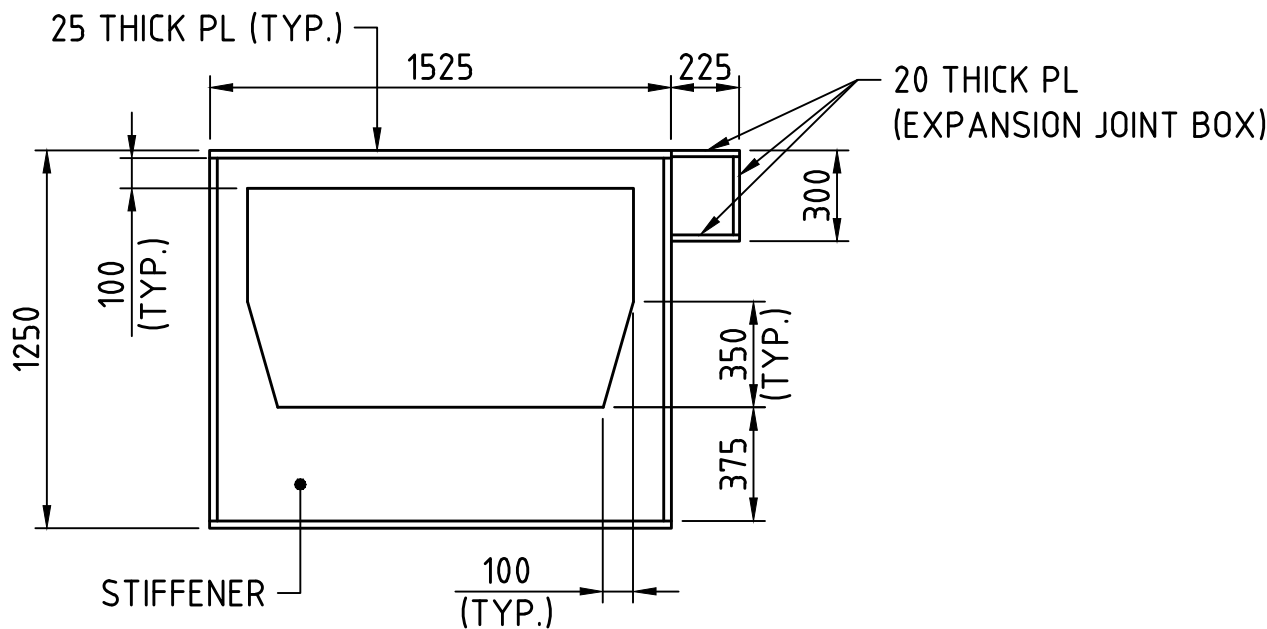
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1:50



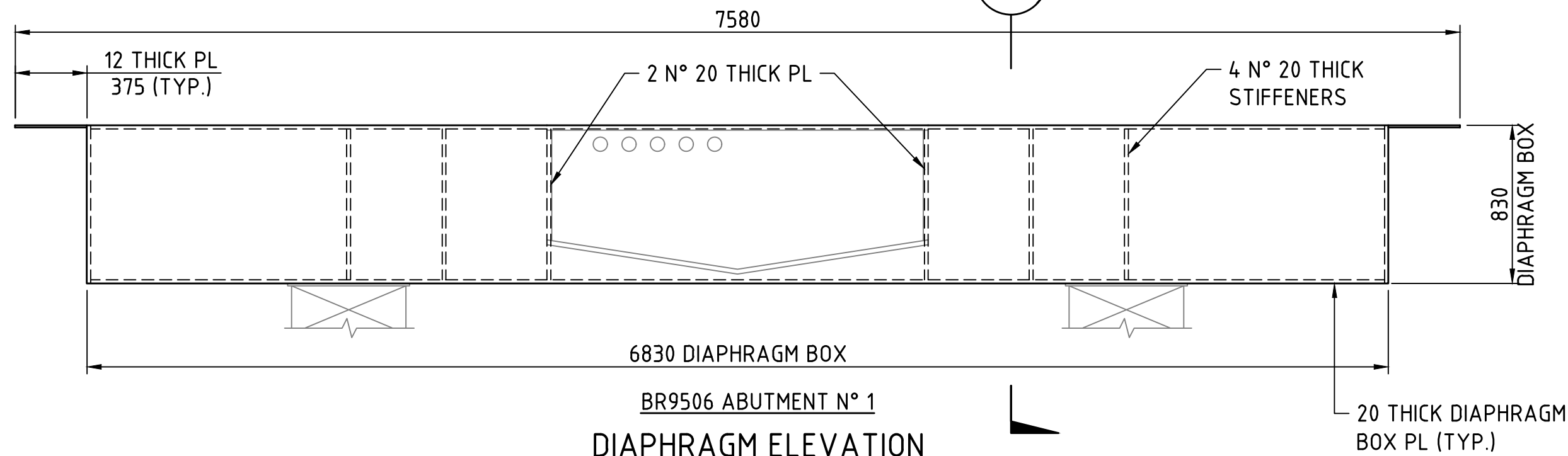
TYPICAL ELEVATION
1:10



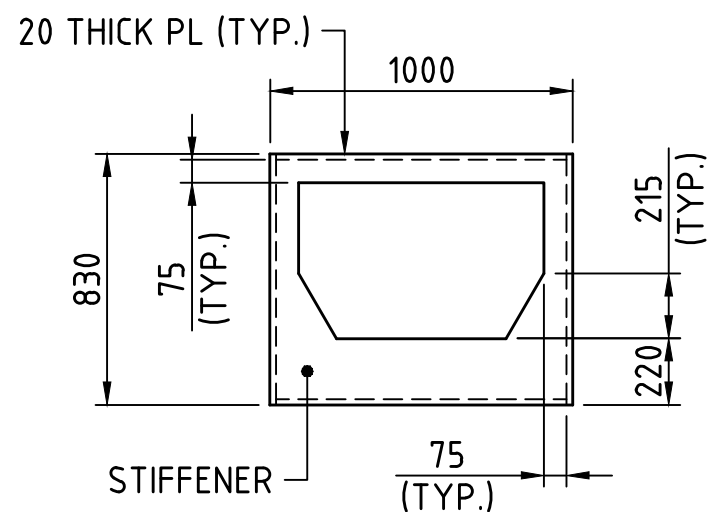
BR9505 ABUTMENT N° 1 - SHOWN
BR9505 & BR9506 ABUTMENT N° 2 - SIMILAR
TYPICAL DIAPHRAGM ELEVATION
1:25



BEARING NOT SHOWN FOR CLARITY
SECTION A
1:25



BR9506 ABUTMENT N° 1
DIAPHRAGM ELEVATION
1:25



BEARING NOT SHOWN FOR CLARITY
SECTION B
1:25

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



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DRAWN	B.BURGESS	21.07.22
DESIGNED	C.CHANG	21.07.22
CHECKED	G.DUPLESSIS	21.07.22
APPROVED	W.SCHWARZ	21.07.22
DRAWING PATH	VERIFIED	DATE

VERIFIER



INFRASTRUCTURE DELIVERY DIRECTORATE

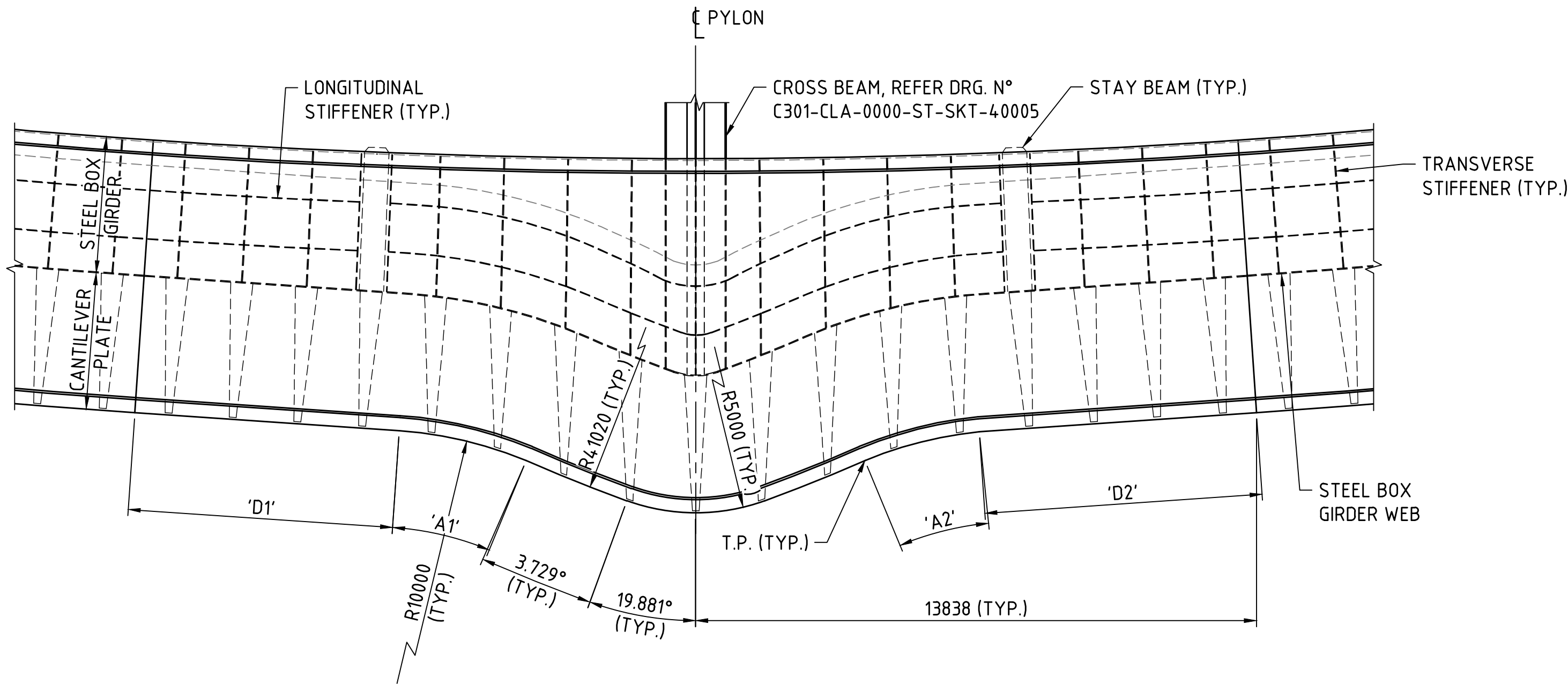
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PROJECT TITLE	CAUSEWAY LINK ALLIANCE		
DRAWING TITLE	CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE PROJECT WIDE TYPICAL DECK SEGMENT		
DRAWING STATUS	15%	DRAWING No.	C301-CLA-0000-ST-SKT-40003

Plot Date: 22/07/2022 8:38 AM
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Plotted By: Burgess, Brent



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PLAN
BR9506 PYLON N° 1 - SHOWN
BR9505 PYLON N° 1 - SIMILAR
PAUSE POINT
1:100

PAUSE POINT INFORMATION				
	A1	A2	D1	D2
BRIDGE 9506	18.535°	16.730°	6359	6854
BRIDGE 9505	16.730°	16.730°	7000	7000

1:100
0 1m 2 3 4 5 6 7 8 9 10

METADATA

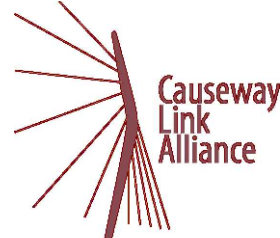
GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



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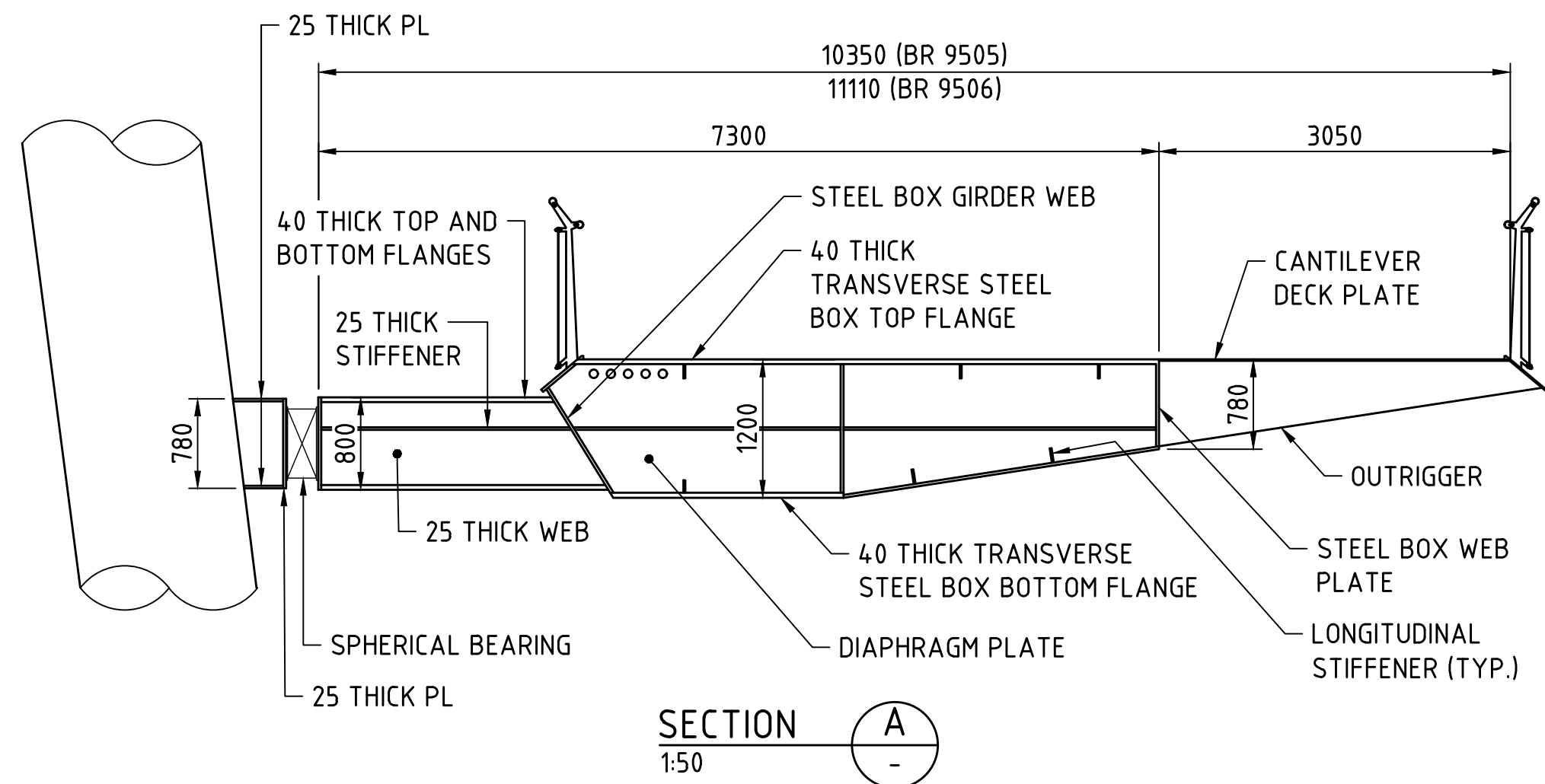
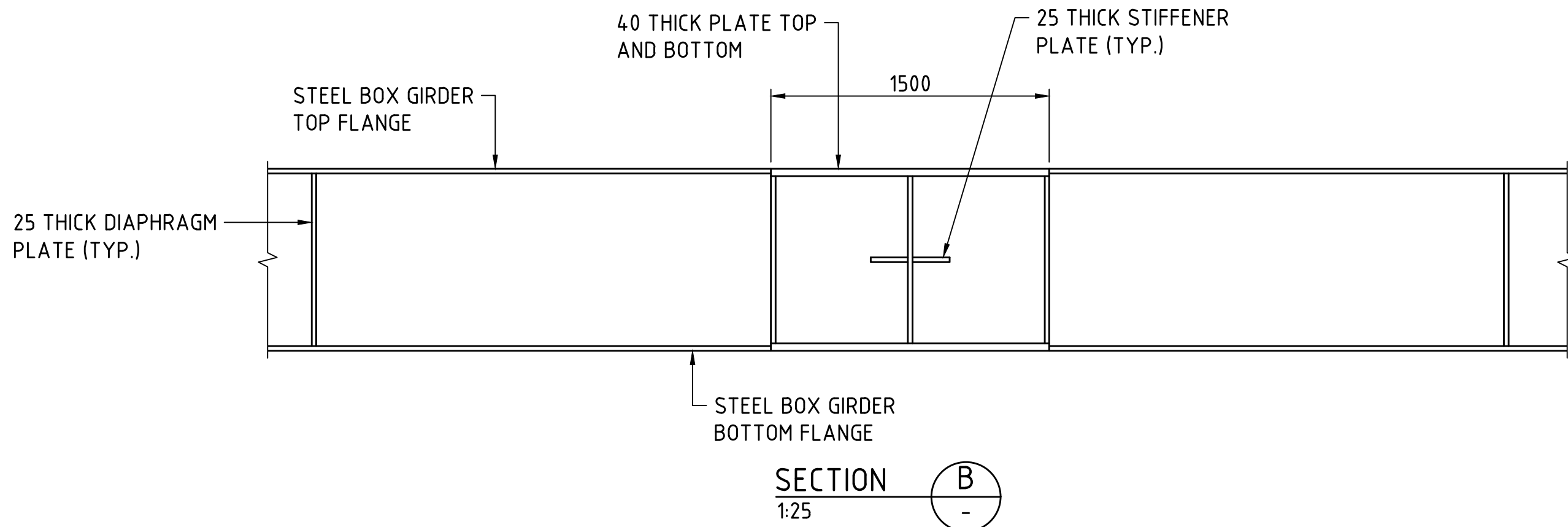
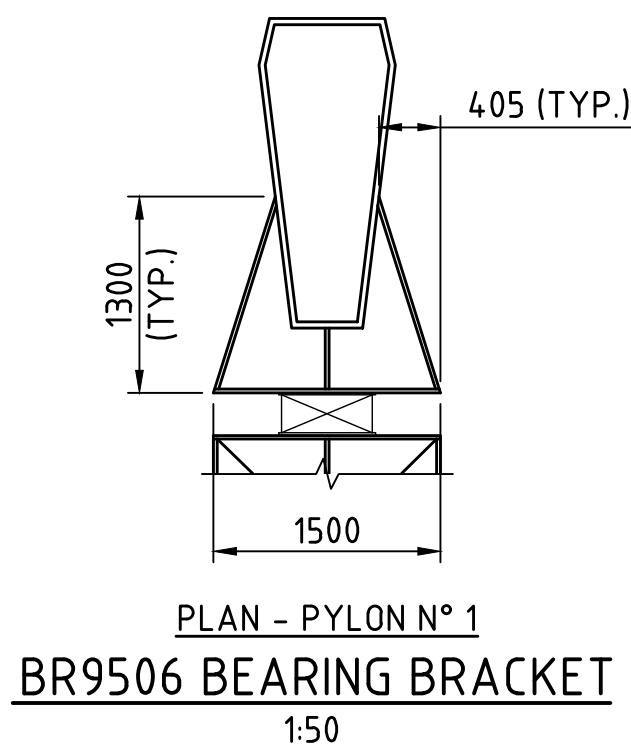
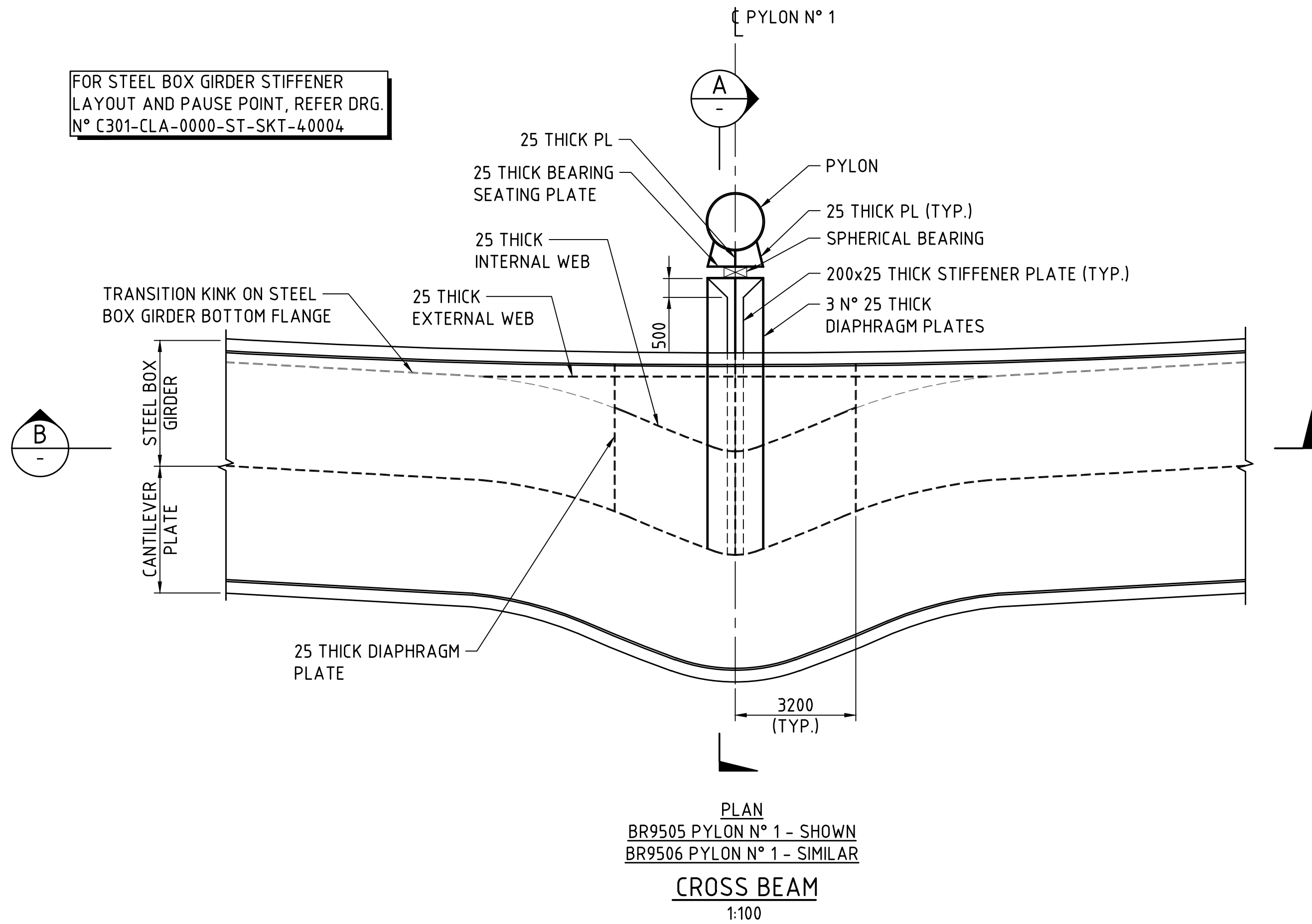
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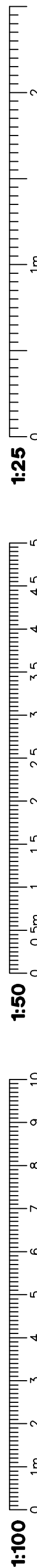
INFRASTRUCTURE DELIVERY DIRECTORATE

LOCAL AUTHORITY		MAIN ROADS RESPONSIBILITY AREA	
124 - CITY OF PERTH, 125 - TOWN OF VICTORIA PARK		METROPOLITAN REGION	
MRWA DRAWING NUMBER			
PROJECT TITLE			
CAUSEWAY LINK ALLIANCE			
DRAWING TITLE			
CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE			
PROJECT WIDE			
PAUSE POINT DETAILS			
SHEET 1 OF 2			
DRAWING STATUS		DRAWING No.	
15%		C301-CLA-0000-ST-SKT-40004	
SHEET		REV	
A1		A	

Plot Date: 22/07/2022 8:38 AM C:\Users\Burgess\OneDrive - WSP 0365\Causeway\15% DR PDFs\C301-CLA-0000-ST-SKT-40005.dwg Plotted By: Burgess, Brent



FOR TYPICAL DECK DETAILS, REFER DRG. N° C301-CLA-0000-ST-SKT-40001.



METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE:
HEIGHT DATUM:

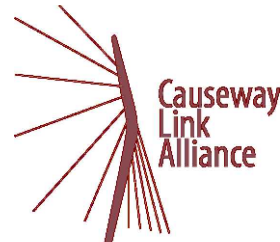
PCG94
AHD71



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DRAWING PATH		

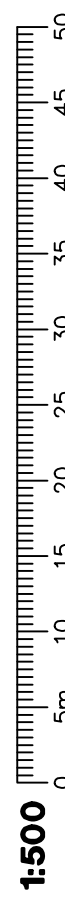
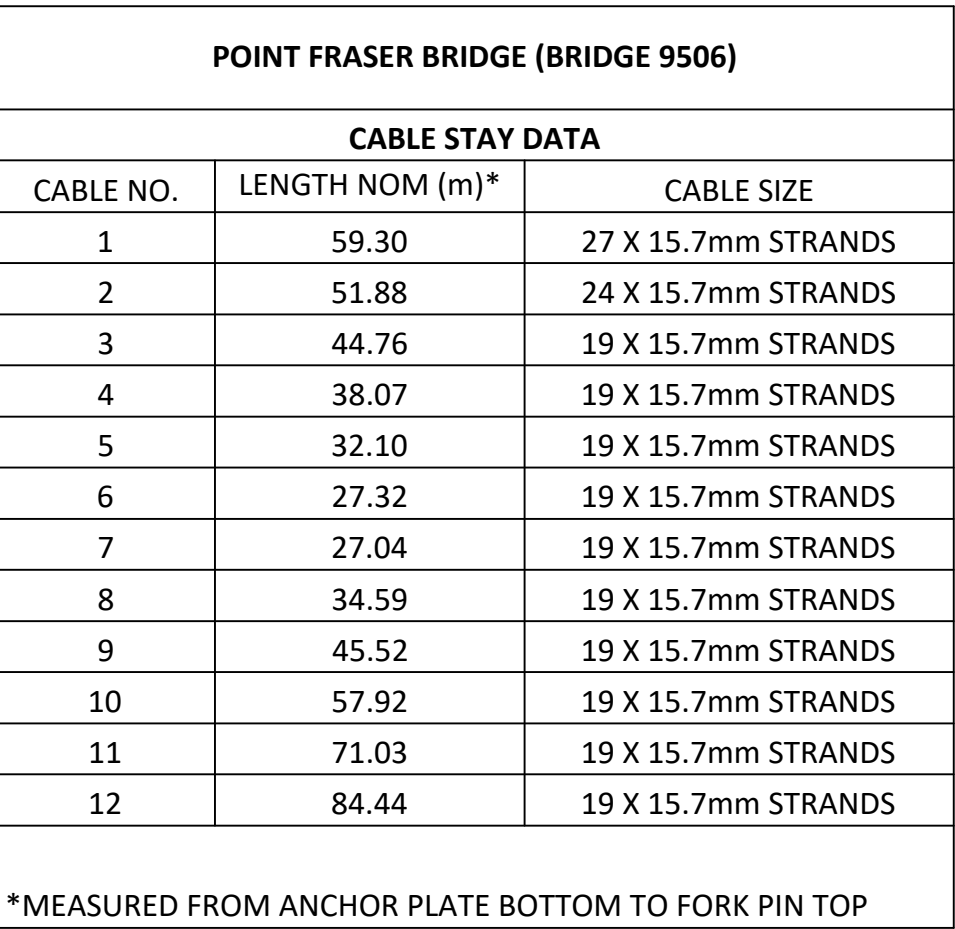
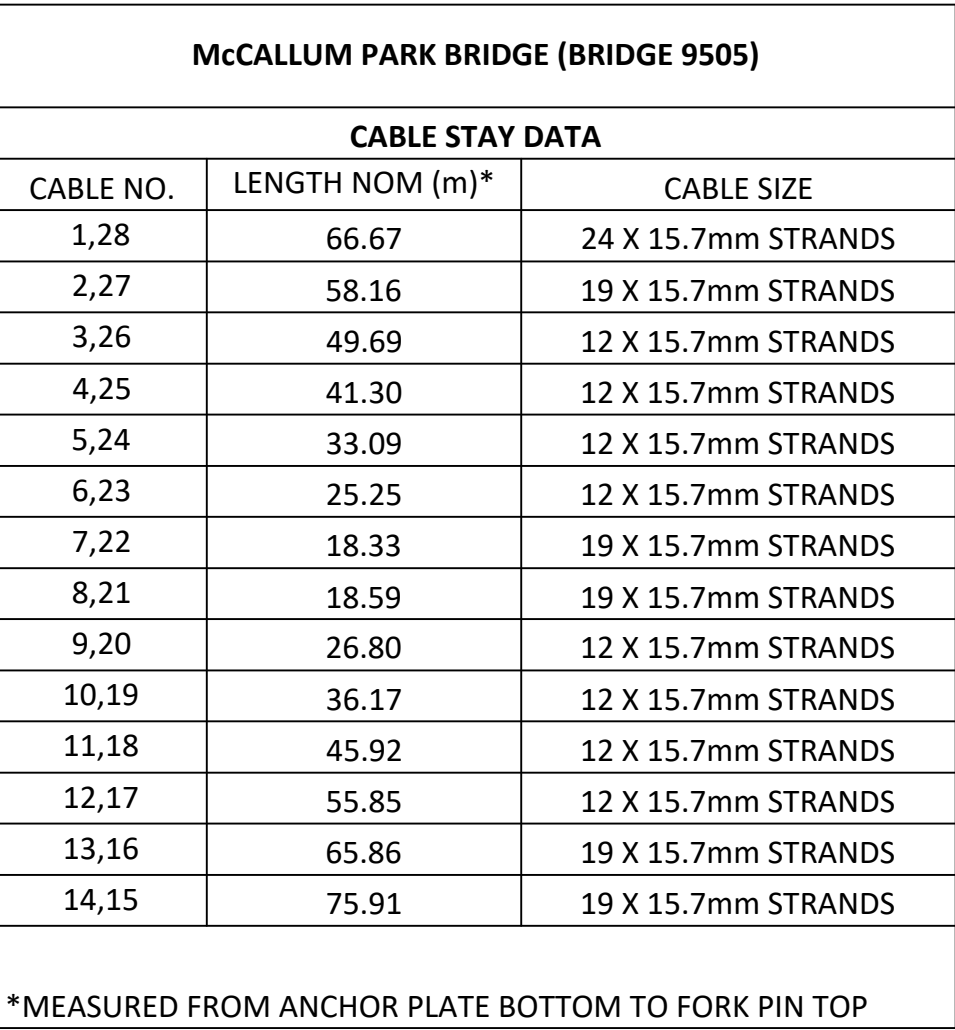
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INFRASTRUCTURE DELIVERY DIRECTORATE

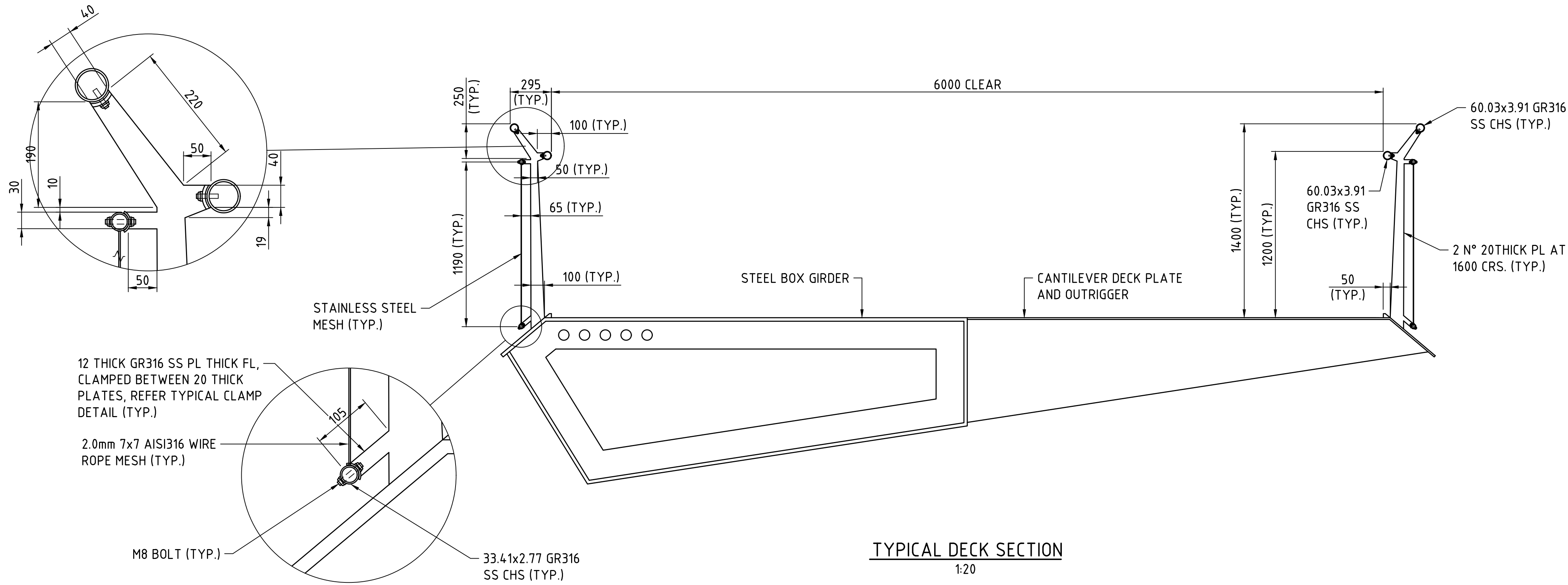
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MRWA DRAWING NUMBER			
PROJECT TITLE CAUSEWAY LINK ALLIANCE			
DRAWING TITLE CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE PROJECT WIDE PAUSE POINT DETAILS SHEET 2 OF 2			
DRAWING STATUS 15%		DRAWING No. C301-CLA-0000-ST-SKT-40005	
SHEET A1		REV A	

1. FOR BRIDGE N° 9505 CABLE PLAN LAYOUT REFER DRG N° C301-CLA-1000-ST-SKT-40001.
2. FOR BRIDGE N° 9506 CABLE PLAN LAYOUT REFER DRG N° C301-CLA-2000-ST-SKT-40001.
3. ALL STAY CABLES ARE PARALLEL STRAND CABLES.

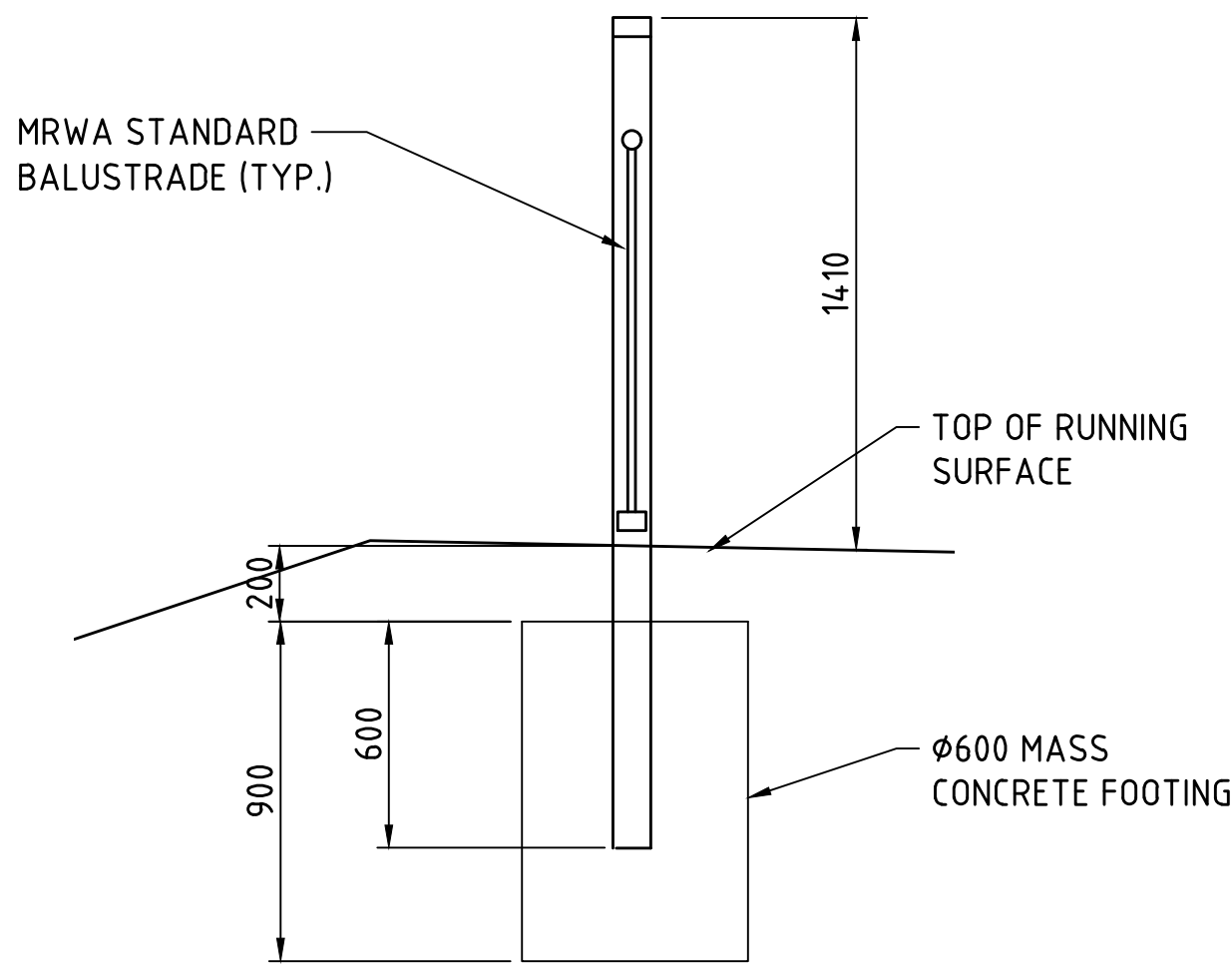
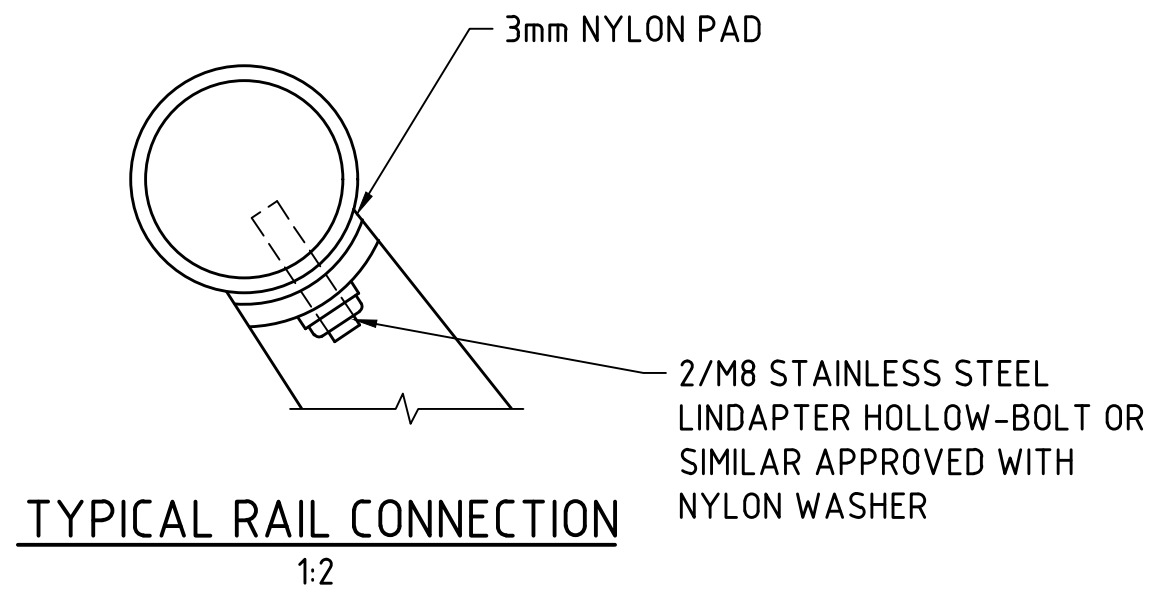


		METADATA		 Level 5 505 Murray Street Perth WA 6000 Telephone +61 8 9489 9700 Facsimile +61 8 9489 9777 Email: perth@wsp.com		DRAWN B.BURGESS 21.07.22				 INFRASTRUCTURE DELIVERY DIRECTORATE				MWA DRAWING NUMBER				
		GROUND SURVEY STANDARD:				DESIGNED C.CHANG 21.07.22								PROJECT TITLE CAUSEWAY LINK ALLIANCE				
		DATE OF CAPTURE:				CHECKED G.DUPLESSIS 21.07.22								DRAWING TITLE CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE PROJECT WIDE CABLE INFORMATION				
		MAPPING SURVEY STANDARD:				APPROVED W.SCHWARZ 21.07.22								DRAWING STATUS 15%		DRAWING No. C301-CLA-0000-ST-SKT-50001		SHEET A1
		DATE OF CAPTURE:				DRAWING PATH								CONTRACT MANAGER DATE		PROJECT DIRECTOR DATE		REV A
		MAIN ROADS PROJECT ZONE: PCG94																
ISSUED FOR 15% DESIGN REVIEW W S 21.07.22		APPROVED & DATE		HEIGHT DATUM: AHD71														
No	DESCRIPTION																	
AMENDMENTS																		

Plot File: C:\Users\burgessb\OneDrive - WSP 0365\Causeway\OneDrive - WSP 0365\Causeway\15% DR PDFs\C301-CLA-0000-ST-SKT-6001.dwg Plot Date: 22/07/2022 8:38 AM Cad File: C:\Users\burgessb\OneDrive - WSP 0365\Causeway\OneDrive - WSP 0365\Causeway\15% DR PDFs\C301-CLA-0000-ST-SKT-6001.dwg



TYPICAL DECK SECTION
1:20



TYPICAL EMBANKMENT HANDRAIL DETAIL
1:20

FOR INFORMATION ONLY

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



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9777 Email:
perth@wsp.com

DRAWN	B.BURGESS	21.07.22
DESIGNED	C.CHANG	21.07.22
CHECKED	G.DUPLESSIS	21.07.22
APPROVED	W.SCHWARZ	21.07.22
DRAWING PATH	VERIFIED	DATE

VERIFIER

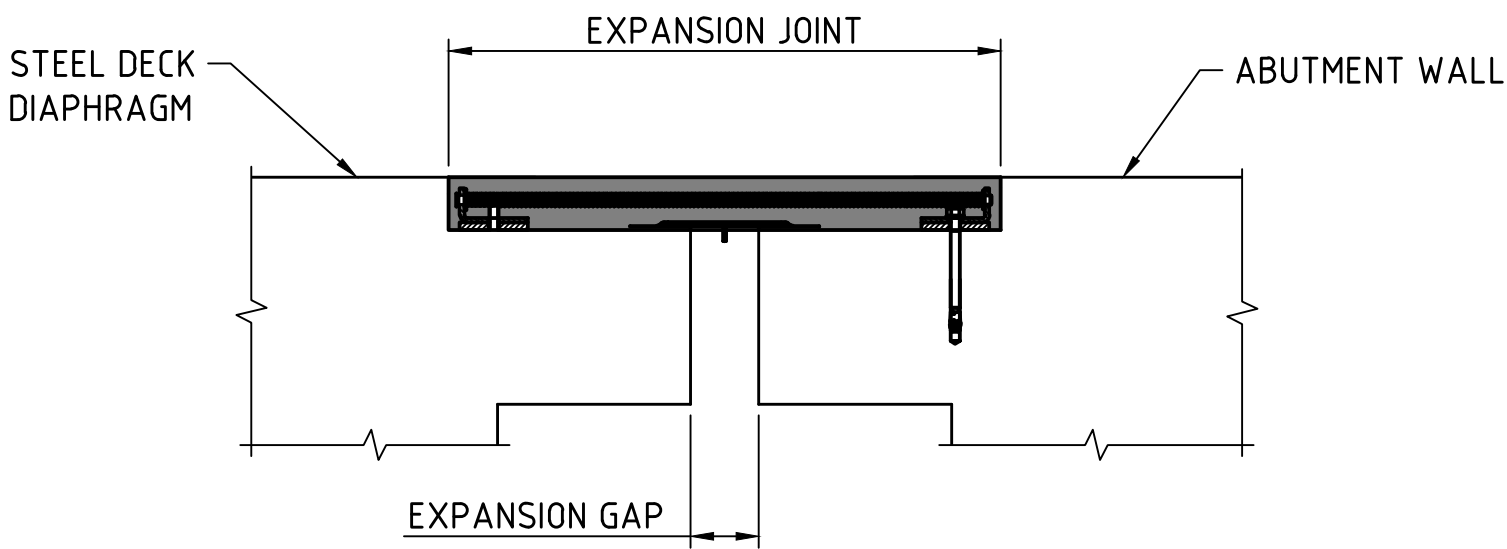


INFRASTRUCTURE DELIVERY DIRECTORATE

LOCAL AUTHORITY	124 - CITY OF PERTH, 125 - TOWN OF VICTORIA PARK	MAIN ROADS RESPONSIBILITY AREA	METROPOLITAN REGION
MRWA DRAWING NUMBER	CAUSEWAY LINK ALLIANCE		
PROJECT TITLE	CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE		
DRAWING TITLE	PROJECT WIDE TYPICAL BALUSTRADE DETAILS		
DRAWING STATUS	15%	DRAWING No.	C301-CLA-0000-ST-SKT-6001.1
SHEET	A1	REV	A

Plot Date: 22/07/2022 8:39 AM Cad File: C:\Users\burgessb\OneDrive - WSP 0365\Causeway\15% DR PDFs\C301-CLA-0000-ST-SKT-70001.dwg Plotted By: Burgess, Brent

EXPANSION JOINT SCHEDULE				
ULS (EXCLUDE EXTREME EVENT SUCH AS SHIP IMPACT AND EARTHQUAKE)				
BRIDGE	LOCATION	LONGITUDINAL MOVEMENT (TOWARDS PYLON) (mm)	LONGITUDINAL MOVEMENT (AWAY PYLON) (mm)	EXPANSION JOINT TYPE
POINT FRASER (BRIDGE 9506)	ABUTMENT 1	40	25	MAGEBA POLYFLEX PA-60
	HALVING JOINT	90	50	MAGEBA POLYFLEX PA-75
	ABUTMENT 2	45	120	MAGEBA POLYFLEX PA-135
MCCALLUM PARK (BRIDGE 9505)	ABUTMENT 1	75	75	MAGEBA POLYFLEX PA-90
	ABUTMENT 2	75	75	



TYPICAL EXPANSION JOINT DETAIL
1:10

1:10
0 100mm 200 300 400 500 600 700 800 900 1000
METROP

ISSUED FOR 15% DESIGN REVIEW

W.S. 21.07.22

No

DESCRIPTION

APPROVED & DATE

AMENDMENTS

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: **PCG94**
HEIGHT DATUM: **AHD71**



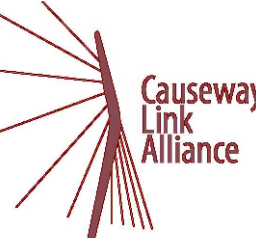
Level 5
503 Murray Street
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Telephone +61 8 9489 9700 Facsimile +61 8 9489 9777 Email: perth@wsp.com

DRAWN: B.BURGESS
DESIGNED: C.CHANG
CHECKED: G.DUPLESSIS
APPROVED: W.SCHWARZ
DRAWING PATH:

21.07.22
21.07.22
21.07.22
21.07.22

VERIFIER

VERIFIED:
DATE:



CONTRACT MANAGER:
PROJECT DIRECTOR:
DATE:
DATE:



INFRASTRUCTURE DELIVERY DIRECTORATE

FOR INFORMATION ONLY

LOCAL AUTHORITY:
MAIN ROADS RESPONSIBILITY AREA: **10 - CITY OF PERTH, 09 - TOWN OF VICTORIA PARK**

MRWA DRAWING NUMBER:

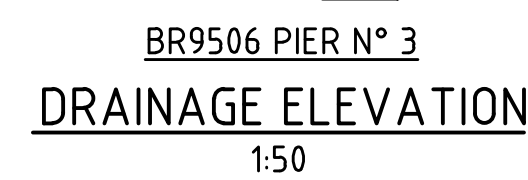
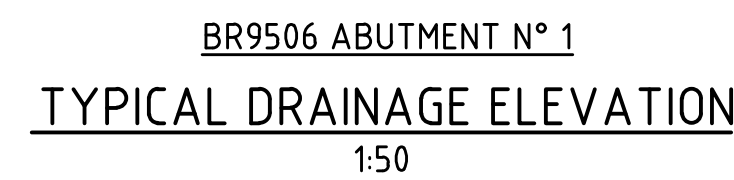
PROJECT TITLE: **CAUSEWAY LINK ALLIANCE**

DRAWING TITLE: **CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE
PROJECT WIDE
EXPANSION JOINT SCHEDULE**

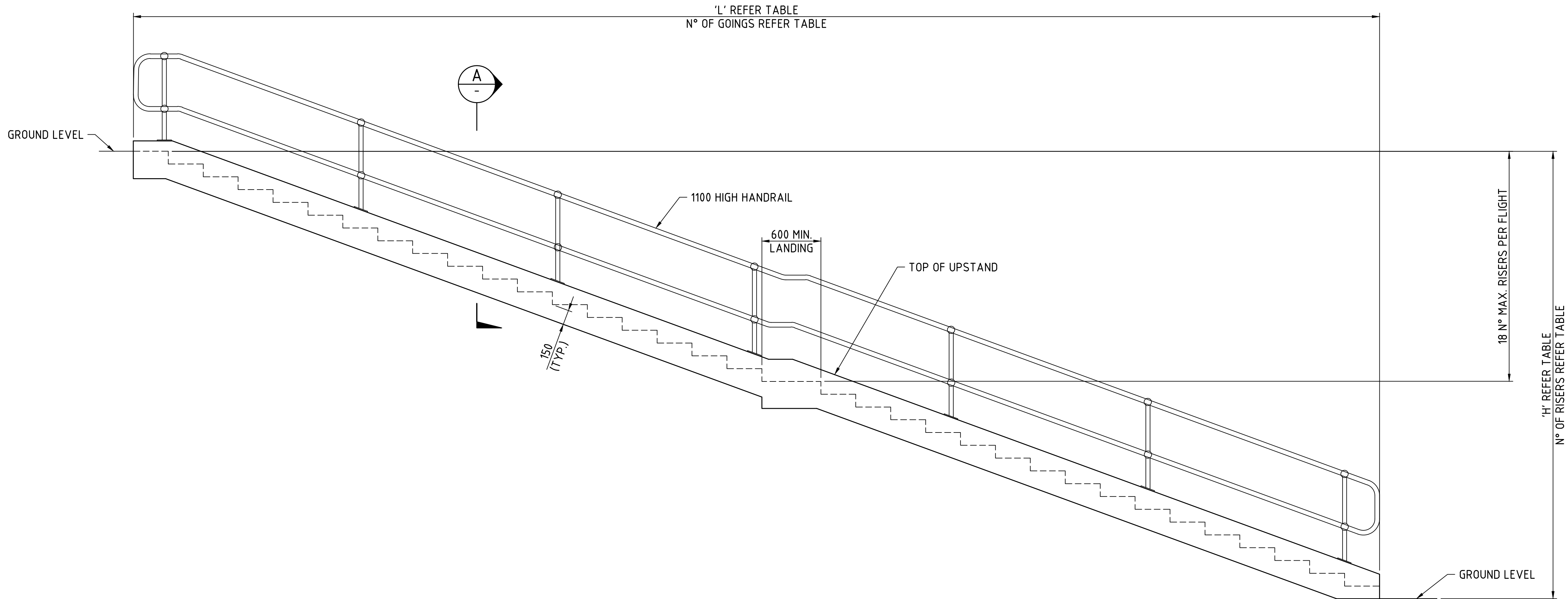
DRAWING STATUS: **15%**

DRAWING No: **C301-CLA-0000-ST-SKT-70001**

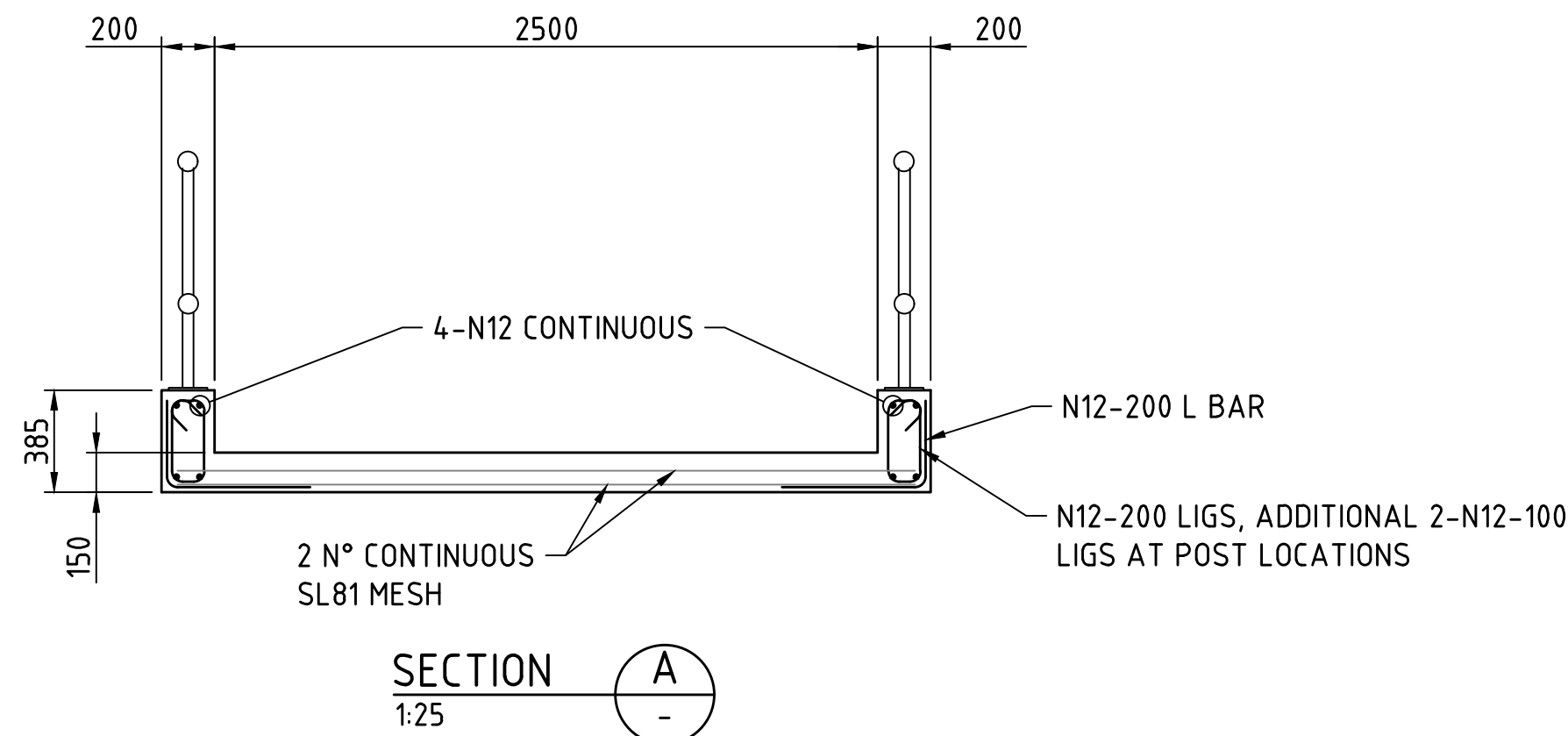
SHEET **A1**
REV **A**

[illegible]

Plot Date: 22/07/2022 8:39 AM Cad File: C:\Users\burgessb\OneDrive - WSP\0365\Causeway\15% DR PDFs\C301-CLA-0000-ST-SKT-80301.dwg Plotted By: Burgess, Brent



TYPICAL ELEVATION
1:25



STAIRS INFORMATION

	LENGTH 'L'	HEIGHT 'H'	N° OF GOINGS	N° OF RISERS	N° OF LANDINGS
BR9506 (ABUTMENT N° 1 APPROACH END)	8655	2615	17	20	3
BR9506 (ABUTMENT N° 2 DEPARTURE END)	12790	4550	34	35	1
BR9505 (ABUTMENT N° 1 APPROACH END)	6800	1615	9	13	4
BR9505 (ABUTMENT N° 2 DEPARTURE END)	13500	3300	23	26	3 (1500 MIN.)

FOR INFORMATION ONLY

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE:
HEIGHT DATUM:

PCG94
AHD71



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DESIGNED	C.CHANG	21.07.22
CHECKED	G.DUPLESSIS	21.07.22
APPROVED	W.SCHWARZ	21.07.22
DRAWING PATH	VERIFIED	DATE

VERIFIER



INFRASTRUCTURE DELIVERY DIRECTORATE

CONTRACT MANAGER
PROJECT DIRECTOR

DATE
DATE

LOCAL AUTHORITY
MAIN ROADS RESPONSIBILITY AREA
10 - CITY OF PERTH, 09 - TOWN OF VICTORIA PARK

MRWA DRAWING NUMBER

PROJECT TITLE
CAUSEWAY LINK ALLIANCE
DRAWING TITLE
CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE
PROJECT WIDE
STAIR DETAILS

DRAWING STATUS
15%

DRAWING No.

C301-CLA-0000-ST-SKT-80301

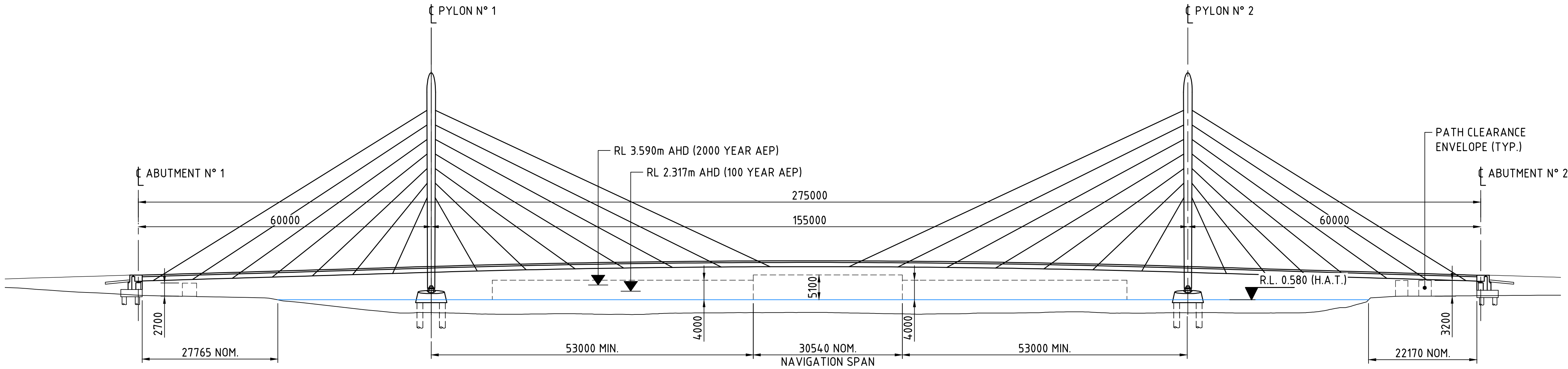
SHEET
A1

REV
A

Plot Date: 22/07/2022 8:39 AM C:\Users\burgessb\OneDrive - WSP\0365\Causeway Link Alliance\15% DR PDFs\C301-CLA-1000-ST-SKT-10101.dwg Plotted By: Burgess, Brent



GENERAL ARRANGEMENT PLAN
1:500



DEVELOPED ELEVATION
1:500

1:500
0 5m 10 15 20 25 30 35 40 45 50 55 60 65 70 75

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



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DRAWING PATH		

VERIFIER

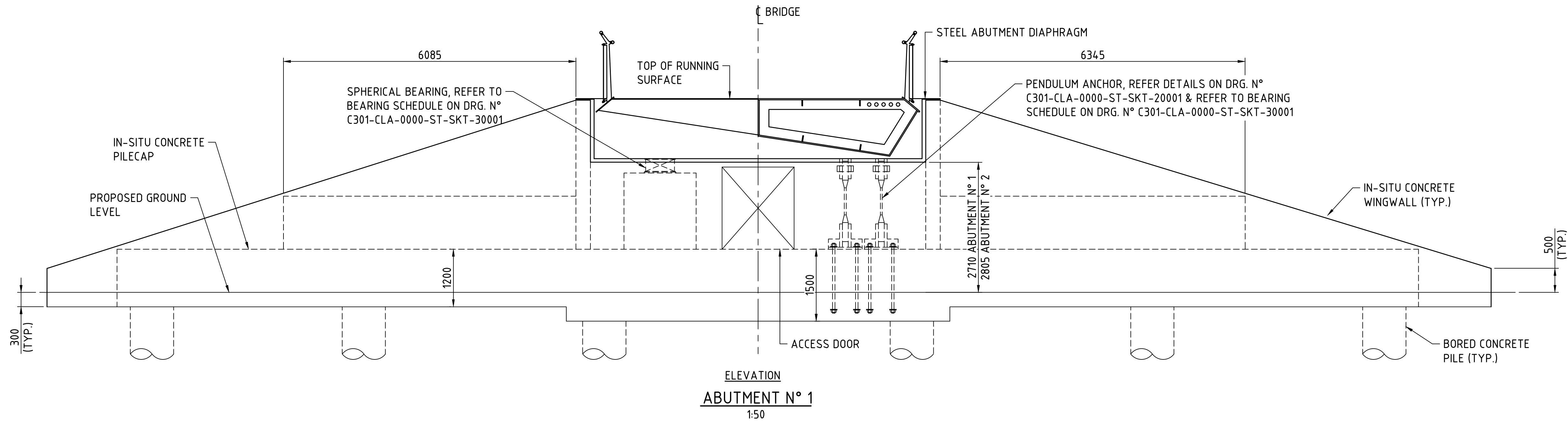
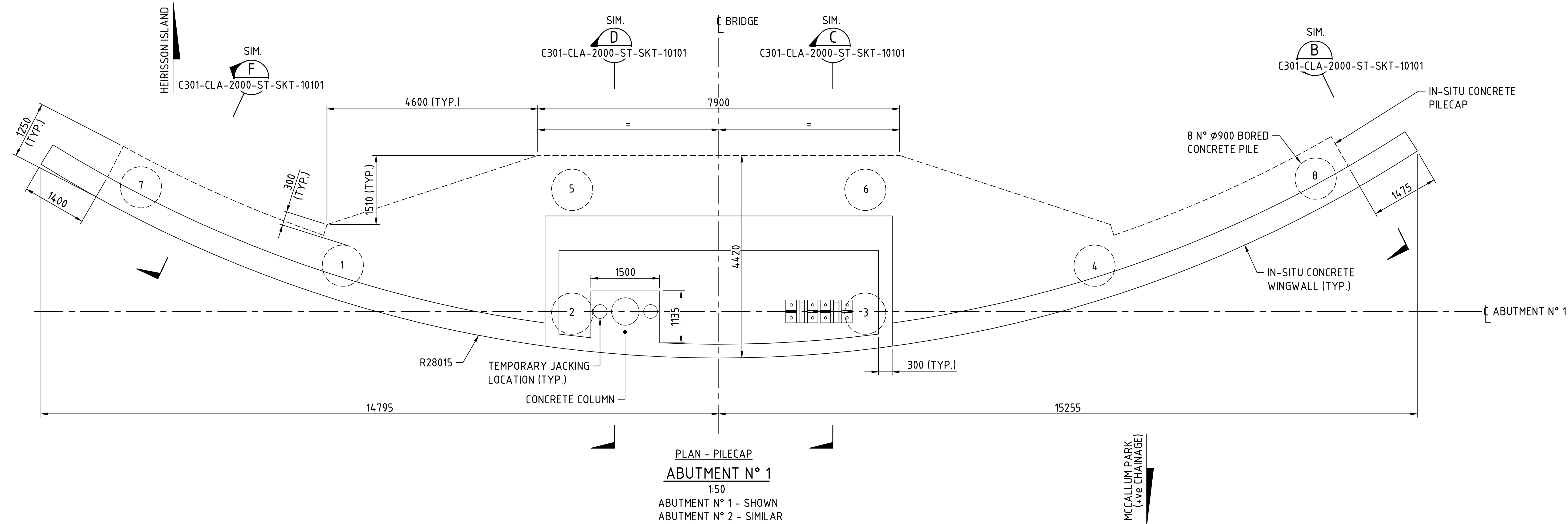


INFRASTRUCTURE DELIVERY DIRECTORATE

FOR INFORMATION ONLY

LOCAL AUTHORITY	124 - CITY OF PERTH, 125 - TOWN OF VICTORIA PARK	MAIN ROADS RESPONSIBILITY AREA	METROPOLITAN REGION
MRWA DRAWING NUMBER			
PROJECT TITLE	CAUSEWAY LINK ALLIANCE		
DRAWING TITLE	CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE BRIDGE 9505 - MCCALLUM PARK SPAN GENERAL ARRANGEMENT		
DRAWING STATUS	15%	DRAWING No.	C301-CLA-1000-ST-SKT-10101
SHEET	A1	REV	A

Plot Date: 22/07/2022 6:39 AM C:\Users\Burgess\OneDrive - WSP\0365\Causeway Link\Drawings\C301-CLA-1000-ST-SKT-10102.dwg



PILE DETAILS						
LOCATION	PILE TYPE	DIAMETER (mm)	N° OF PILES	TOP OF PILE RL (m AHD)	PILE LENGTH (m)	MIN. TEMPORARY CASING LENGTH (m)
ABUTMENT N° 1	BORED PILE	900	8	0.5	REFER PILE LENGTH TABLE	9.0
ABUTMENT N° 2	BORED PILE	900	8	0.9		9.0

PILE LENGTH		
PILE N°	ABUTMENT N° 1 PILE LENGTH (m)	ABUTMENT N° 2 PILE LENGTH (m)
1 - 4	28.0	23.0
5 - 6	23.0	18.0
7 - 8	16.0	12.0

NOTES:
1. REFER DRG. N° C301-CLA-0000-ST-SKT-20002 FOR GEOTECHNICAL NOTES.

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



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perth@wsp.com

DRAWN: B.BURGESS 21.07.22
DESIGNED: C.CHANG 21.07.22
CHECKED: G.DUPLESSIS 21.07.22
APPROVED: W.SCHWARZ 21.07.22
DRAWING PATH:

VERIFIER

VERIFIED
DATE:



CONTRACT MANAGER
PROJECT DIRECTOR

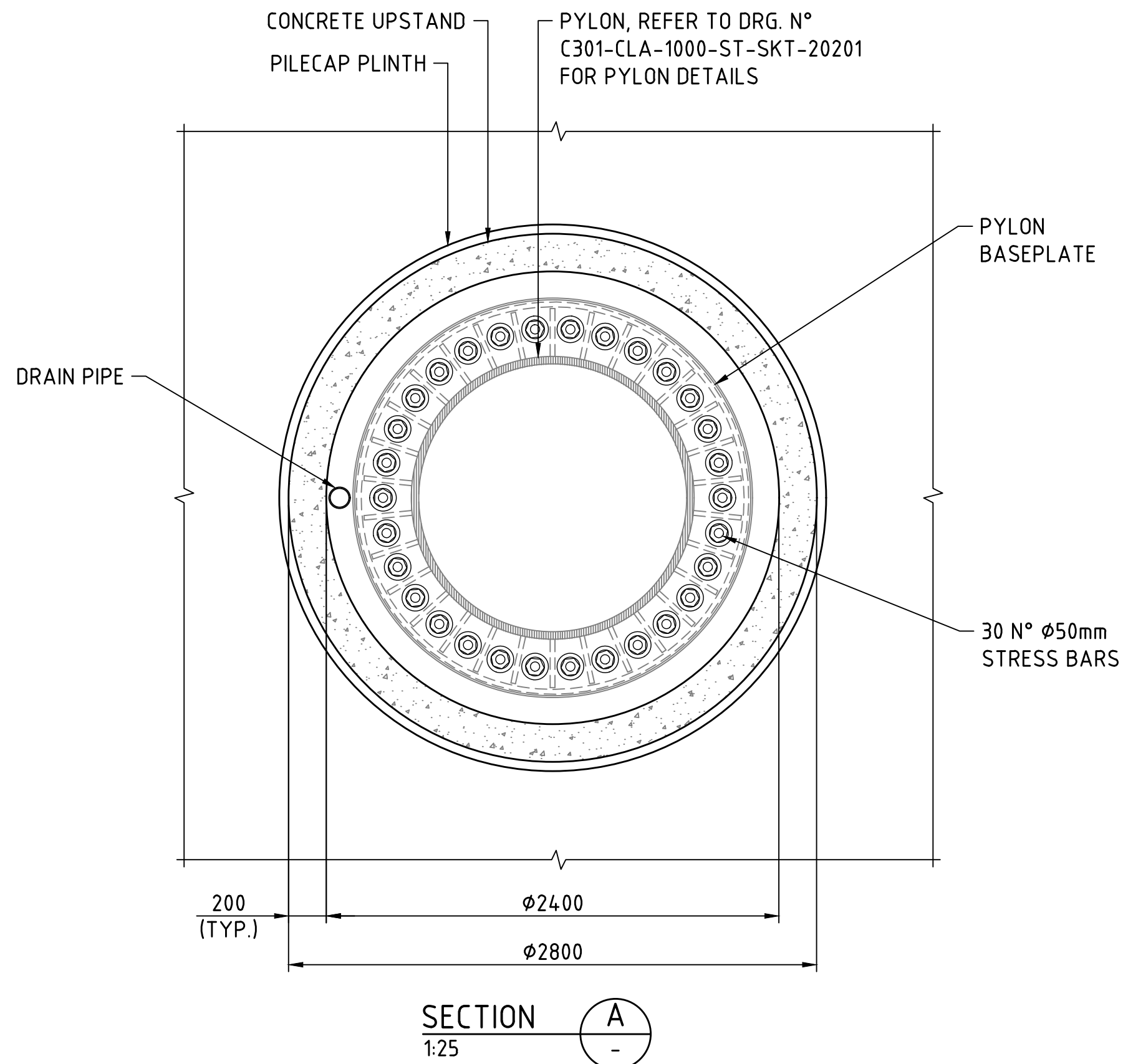
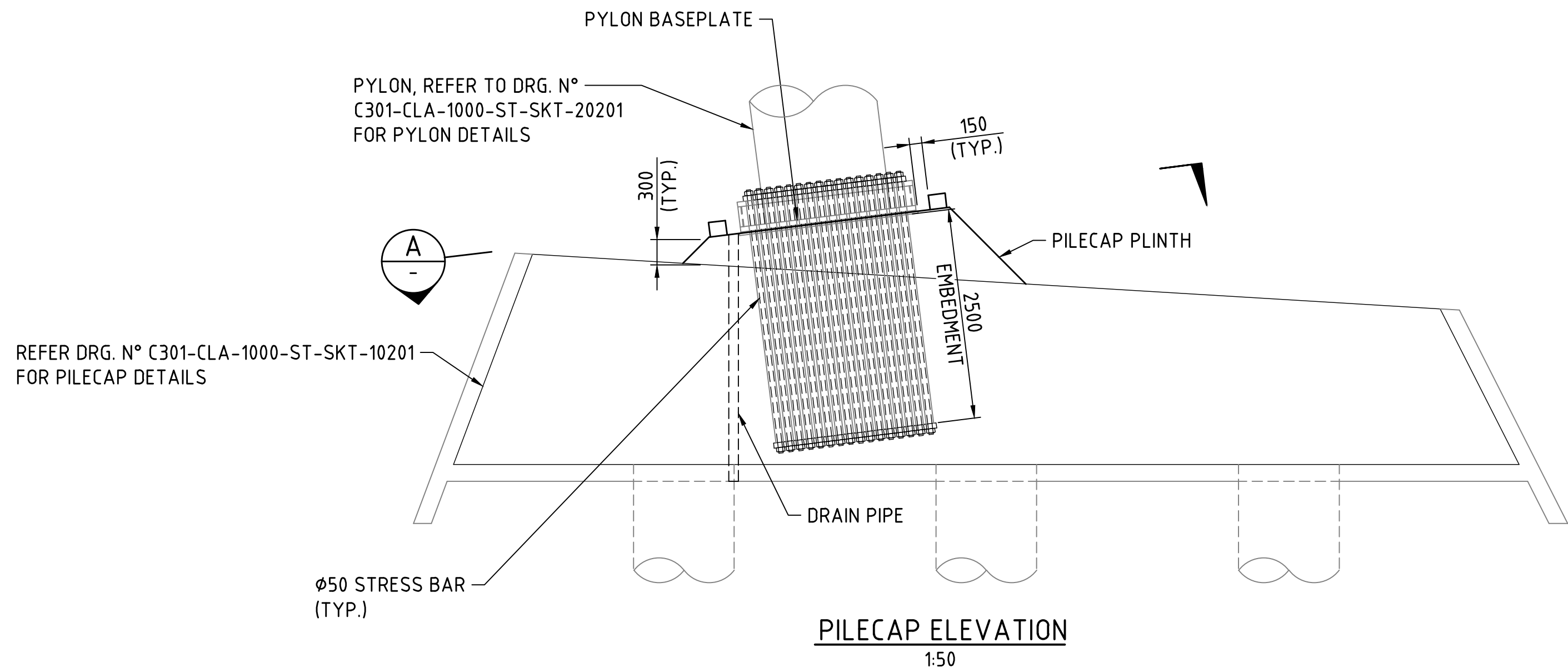


INFRASTRUCTURE DELIVERY DIRECTORATE



LOCAL AUTHORITY: 024 - CITY OF PERTH, 029 - TOWN OF VICTORIA PARK	MAIN ROADS RESPONSIBILITY AREA: METROPOLITAN REGION
MRIWA DRAWING NUMBER:	
PROJECT TITLE: CAUSEWAY LINK ALLIANCE	
DRAWING TITLE: CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE 9505 - MCCALLUM PARK SPAN ABUTMENT DETAILS	
DRAWING STATUS: 15%	DRAWING No: C301-CLA-1000-ST-SKT-10102
SHEET A1	REV A

Plot Date: 22/07/2022 8:40 AM C:\Users\Burgess\OneDrive - WSP\0365\Causeway Link\Drawings\15% DR PDFs\C301-CLA-1000-ST-SKT-10201.dwg Plotted By: Burgess, Brent



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METADATA

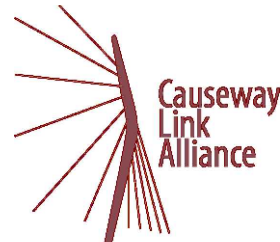
GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



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9700 Facsimile +61 8 9489
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DRAWN	B.BURGESS	21.07.22
DESIGNED	C.CHANG	21.07.22
CHECKED	G.DUPLESSIS	21.07.22
APPROVED	W.SCHWARZ	21.07.22
DRAWING PATH	VERIFIED	DATE

VERIFIER



INFRASTRUCTURE DELIVERY DIRECTORATE

LOCAL AUTHORITY
MAIN ROADS RESPONSIBILITY AREA
10 - CITY OF PERTH, 09 - TOWN OF VICTORIA PARK

MRWA DRAWING NUMBER

PROJECT TITLE
CAUSEWAY LINK ALLIANCE

DRAWING TITLE
CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE
BRIDGE 9505 - MCCALLUM PARK SPAN
PYLON BASE DETAILS

DRAWING STATUS
15%

DRAWING No.
C301-CLA-1000-ST-SKT-10201

SHEET
A1

REV
A



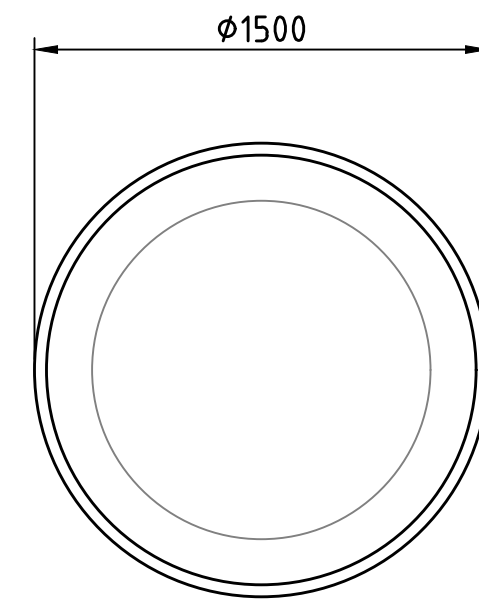
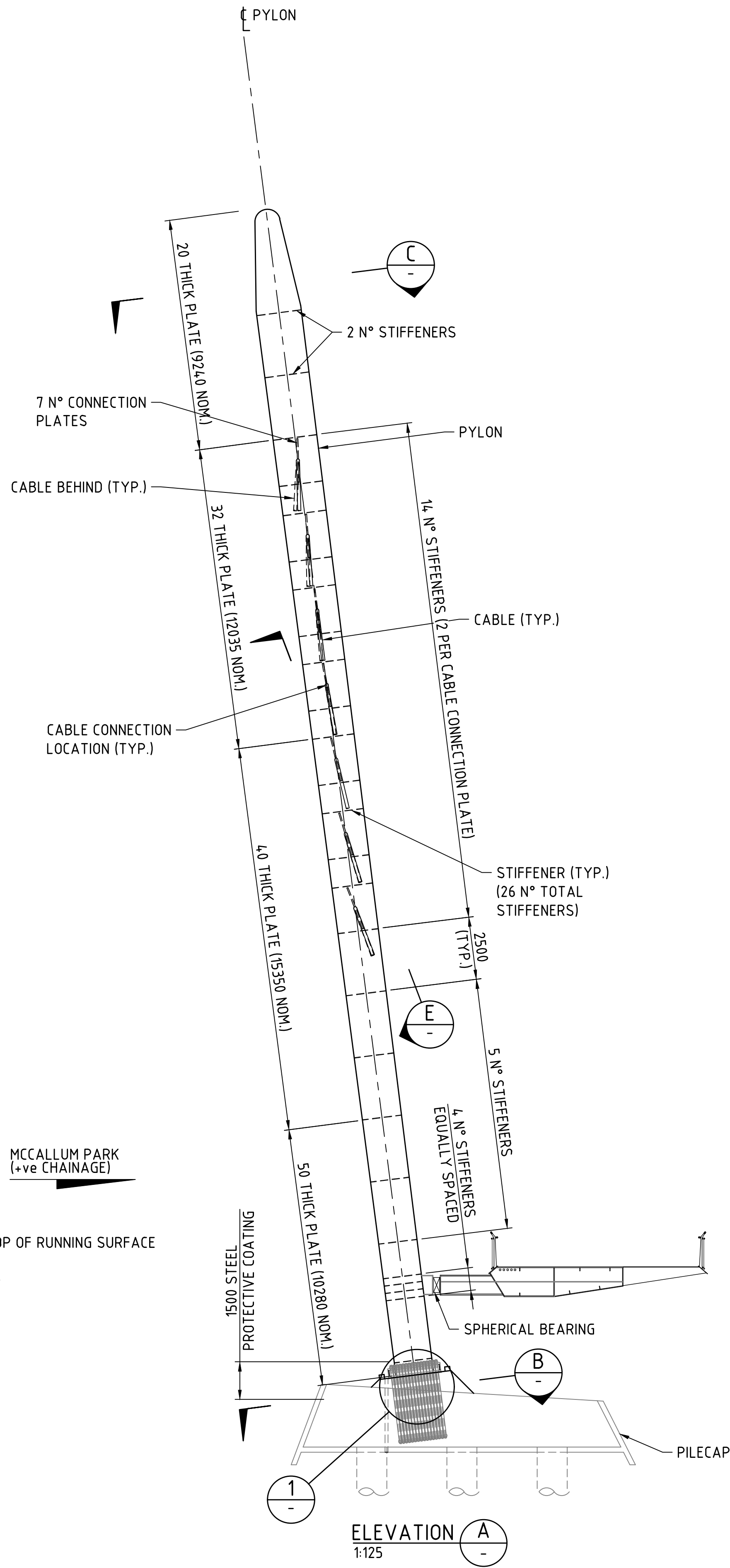
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HEIRISSON ISLAND

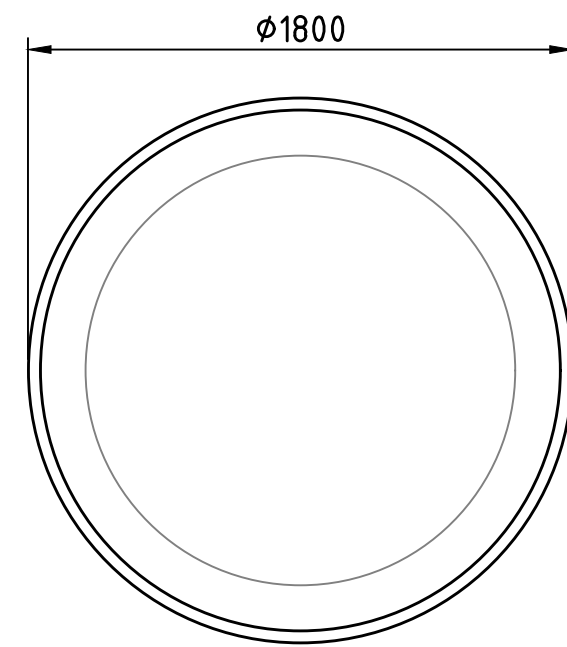
47060 FROM TOP OF BASEPLATE

PYLON ELEVATION

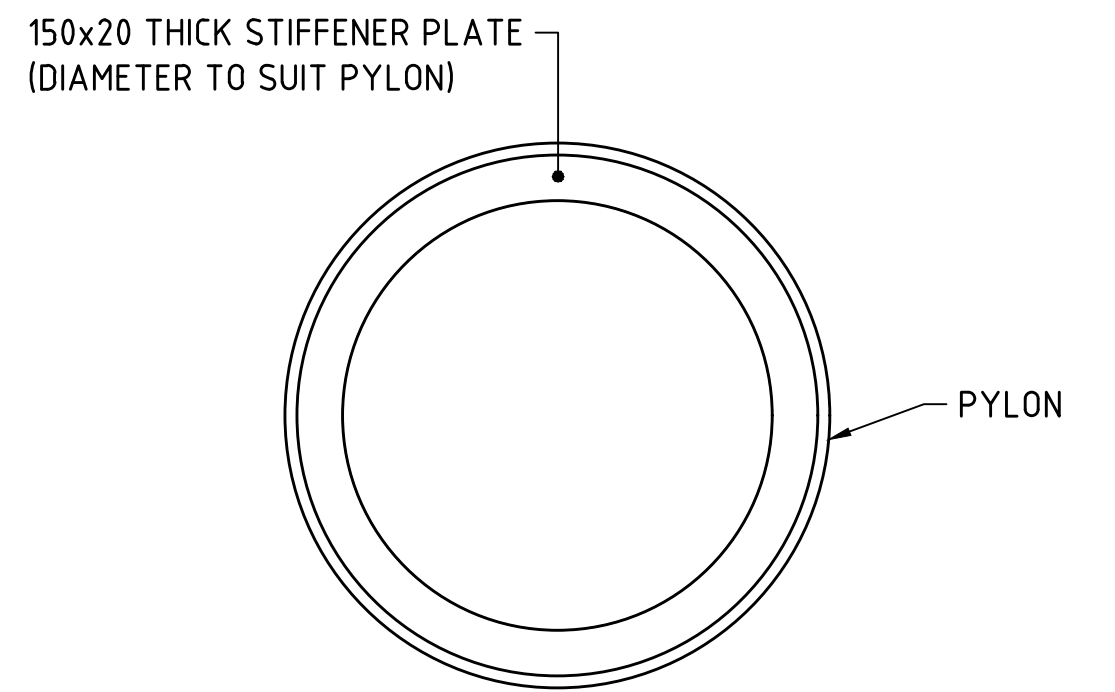
1:125
PYLON N° 1 - SHOWN
PYLON N° 2 - SIMILAR



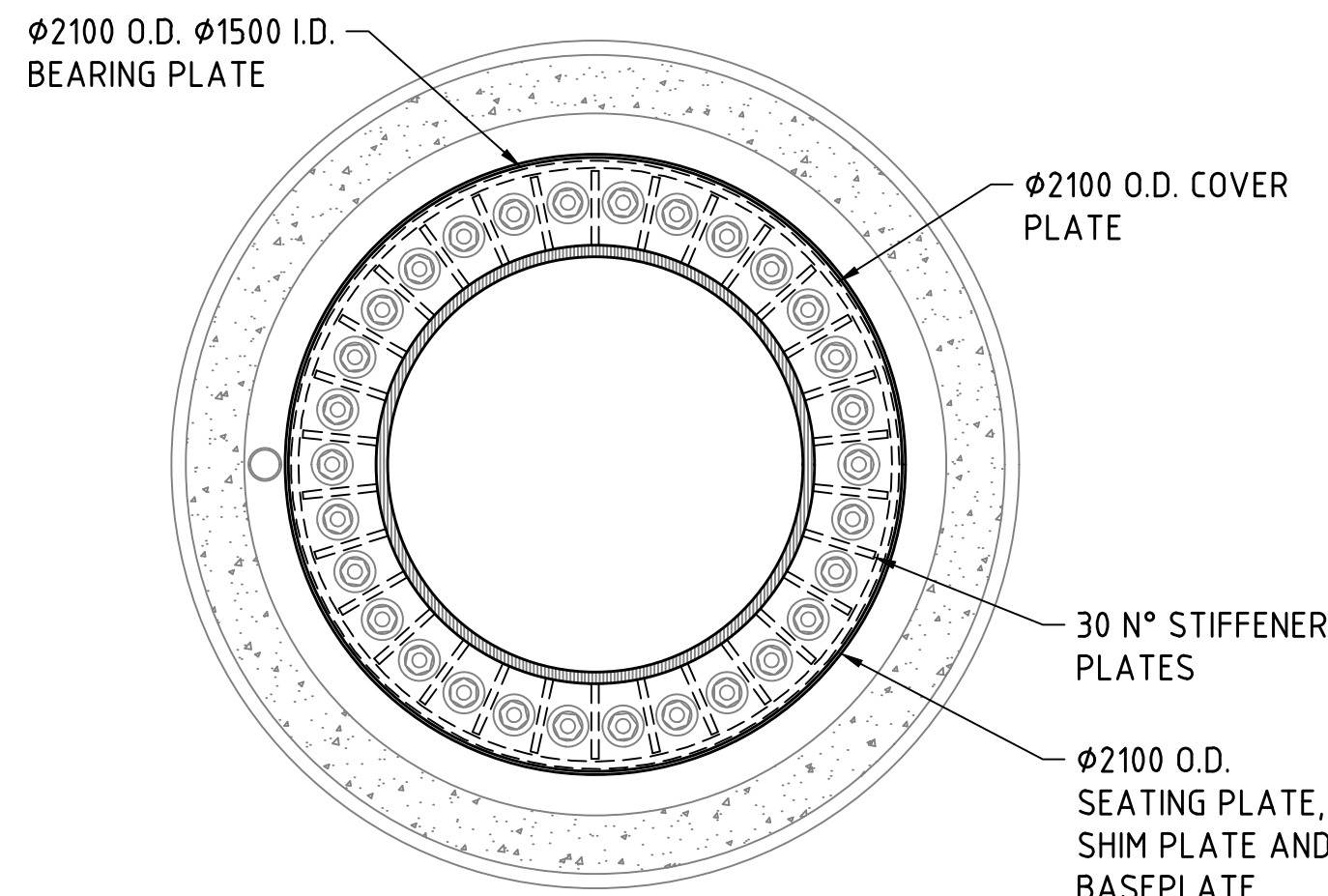
SECTION B
1:25



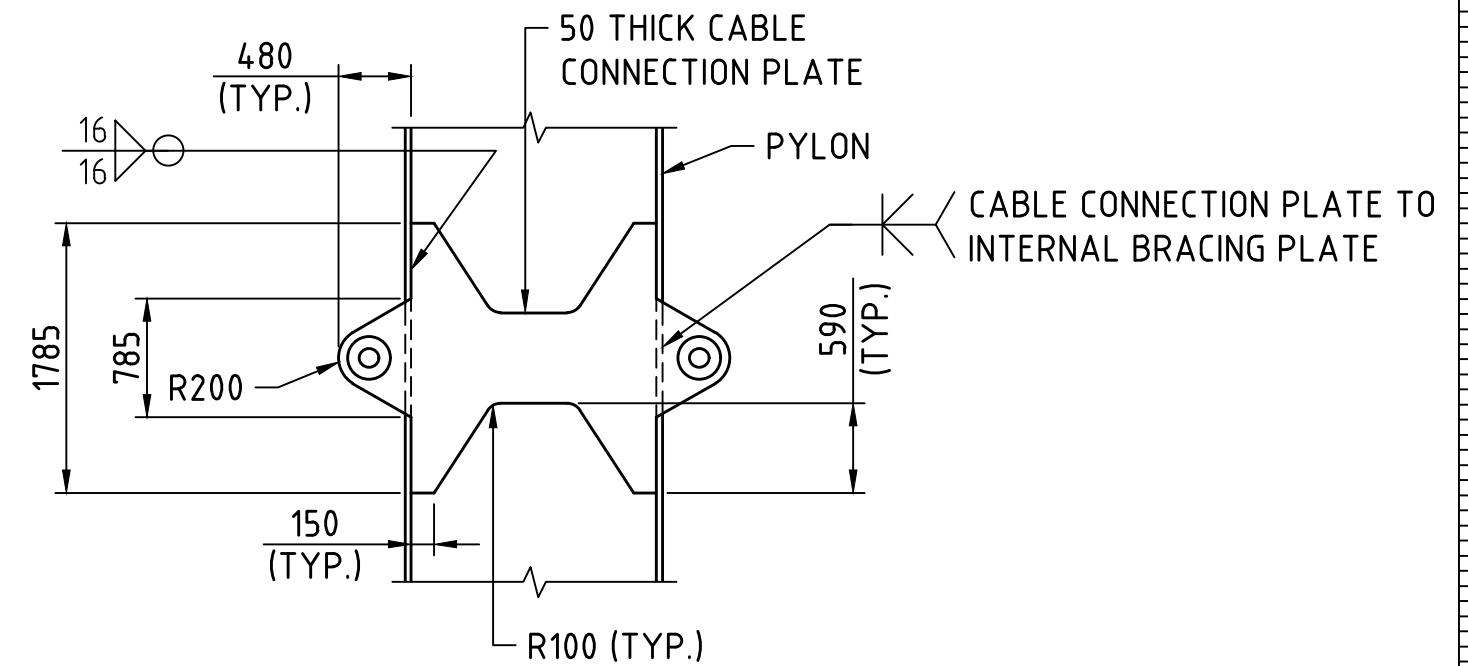
SECTION C
1:25



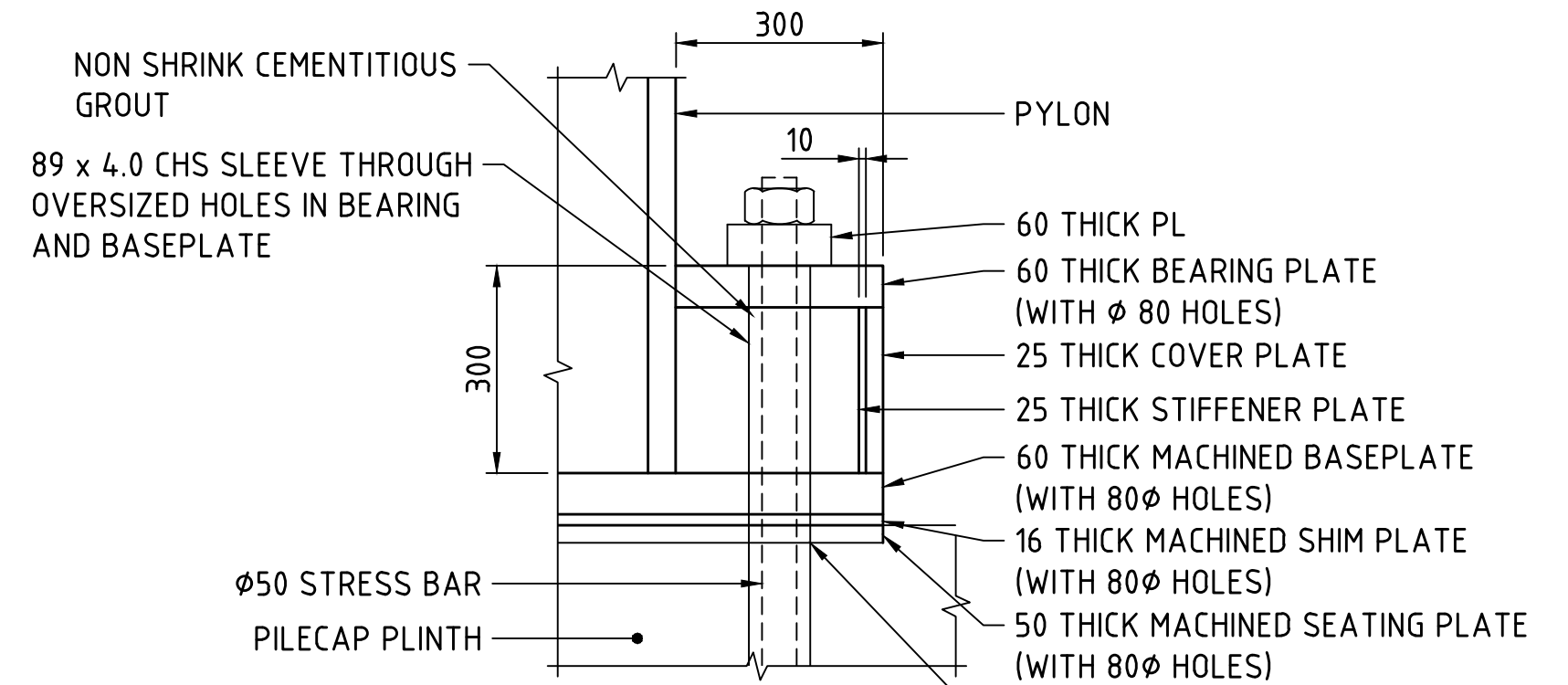
TYPICAL STIFFENER DETAIL
1:25



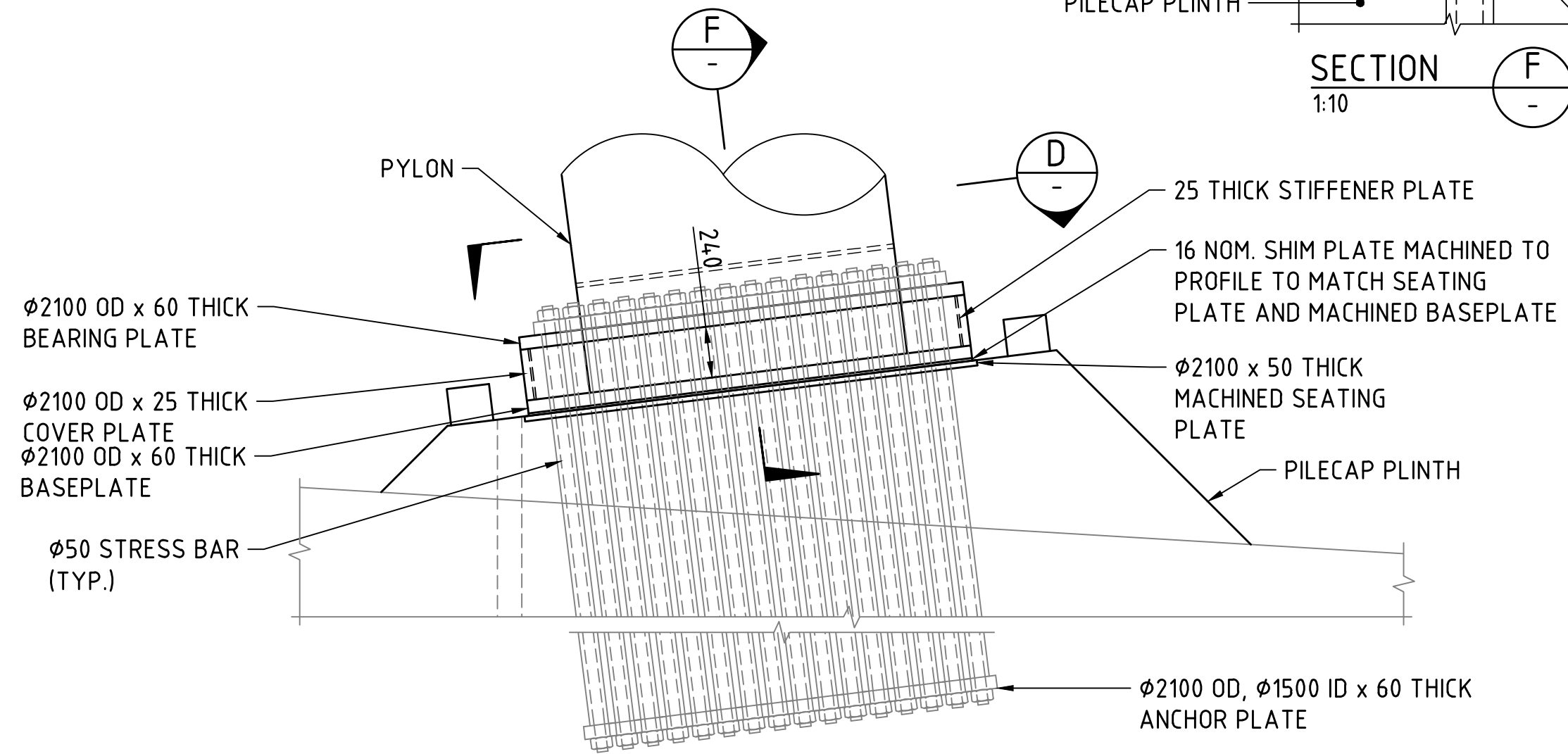
SECTION D
1:25



SECTION E
1:50



SECTION F
1:10



DETAIL 1
1:25

FOR INFORMATION ONLY

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



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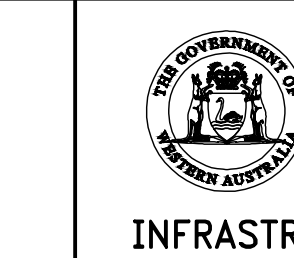
DRAWN: B.BURGESS 21.07.22
DESIGNED: C.CHANG 21.07.22
CHECKED: G.DUPLESSIS 21.07.22
APPROVED: W.SCHWARZ 21.07.22
DRAWING PATH:

VERIFIER

VERIFIED
DATE



CONTRACT MANAGER
PROJECT DIRECTOR

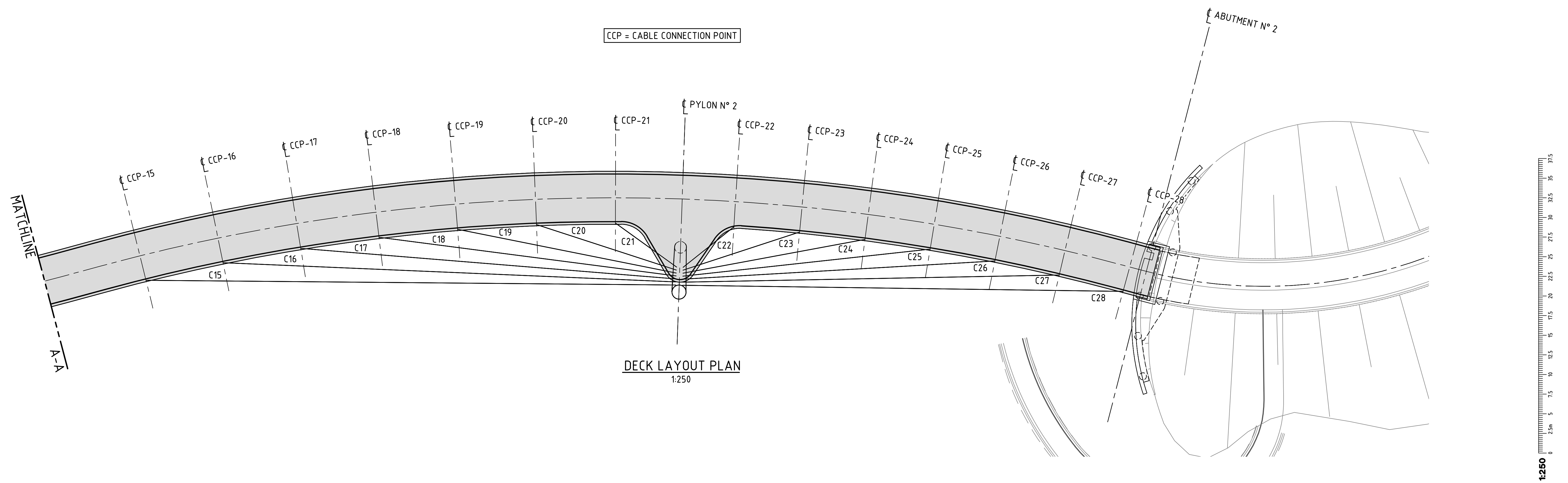


INFRASTRUCTURE DELIVERY DIRECTORATE



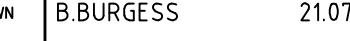
LOCAL AUTHORITY 124 - CITY OF PERTH, 125 - TOWN OF VICTORIA PARK	MAIN ROADS RESPONSIBILITY AREA METROPOLITAN REGION
MRWA DRAWING NUMBER	
PROJECT TITLE CAUSEWAY LINK ALLIANCE	
DRAWING TITLE CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE 9505 - MCCALLUM PARK SPAN PYLON DETAILS	
DRAWING STATUS 15%	DRAWING No. C301-CLA-1000-ST-SKT-20201
SHEET A1	REV A

1. FOR DECK PLATE THICKNESS REFER DRG N° C301-CLA-0000-ST-SKT-40006.

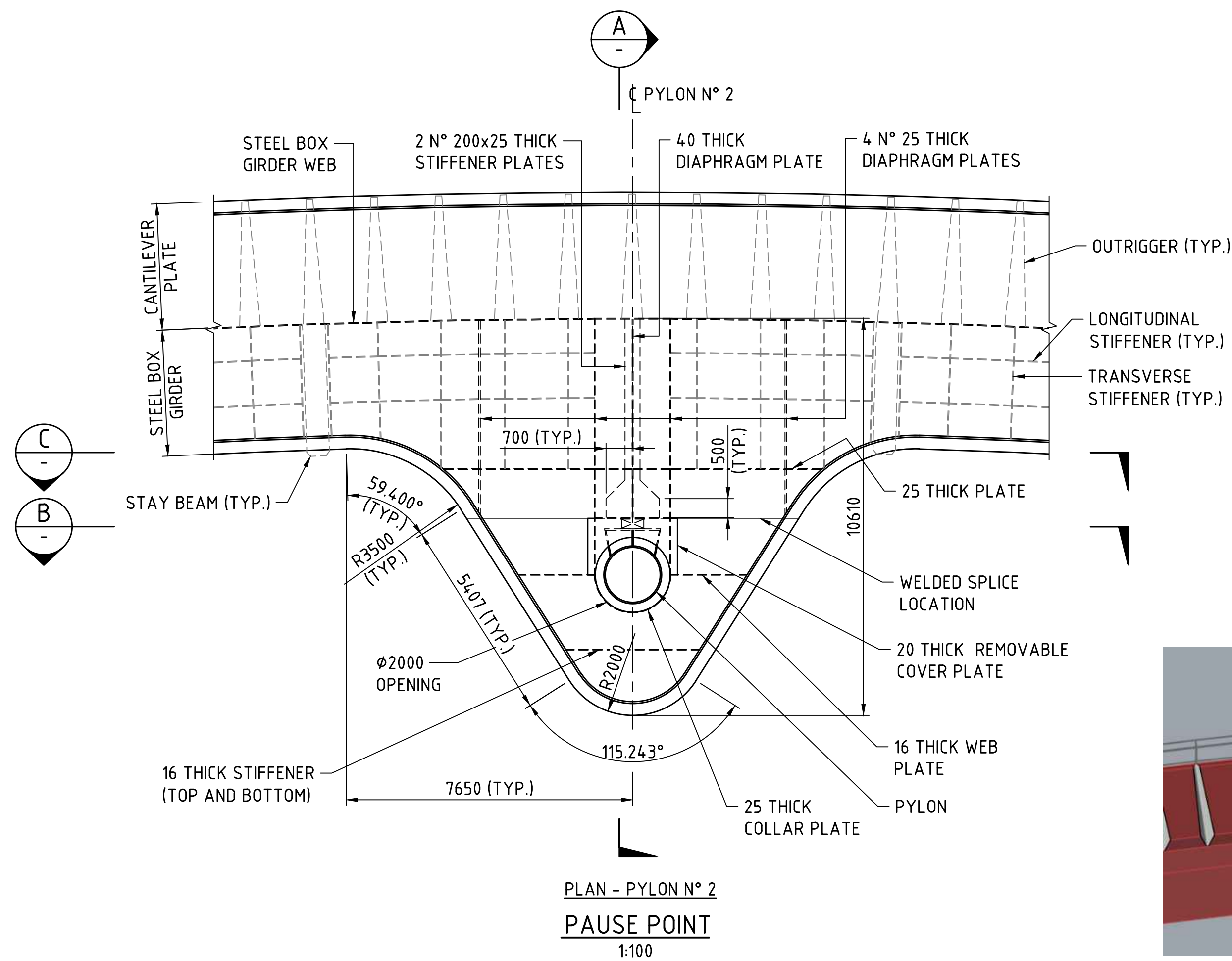


DECK LAYOUT PLAN
1:250

LOCAL AUTHORITY 124 - CITY OF PERTH, 125 - TOWN OF VICTORIA PARK		MAIN ROADS RESPONSIBILITY AREA METROPOLITAN REGION	
MRWA DRAWING NUMBER			
PROJECT TITLE CAUSEWAY LINK ALLIANCE			
DRAWING TITLE CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE BRIDGE 9505 - MCCALLUM PARK SPAN DECK LAYOUT PLAN			
DRAWING STATUS 15%		DRAWING No. C301-WSP-1000-ST-SKT-40001	
		SHEET A1 REV A	

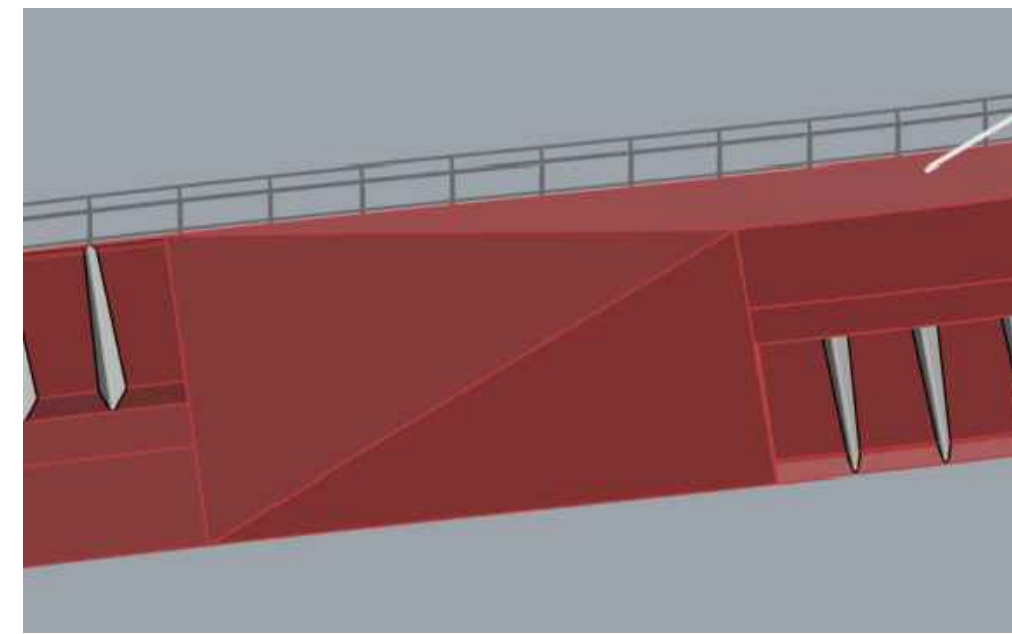
A No		ISSUED FOR 15% DESIGN REVIEW		W.S. 21.07.22	METADATA		 Level 5 503 Murray Street Perth WA 6000 Telephone +61 8 9489 9700 Facsimile +61 8 9489 9777 Email: perth@wsp.com	DRAWN B.BURGESS 21.07.22		VERIFIER		 	MWLA DRAWING NUMBER		
		AMENDMENTS		APPROVED & DATE	GROUND SURVEY STANDARD: DATE OF CAPTURE: MAPPING SURVEY STANDARD: DATE OF CAPTURE: MAIN ROADS PROJECT ZONE: PCG94 HEIGHT DATUM: AHD71			DESIGNED C.CHANG 21.07.22 CHECKED G.DUPLISSIS 21.07.22 APPROVED W.SCHWARZ 21.07.22					PROJECT TITLE CAUSEWAY LINK ALLIANCE		
													DRAWING TITLE CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE BRIDGE 9505 - MCCALLUM PARK SPAN DECK LAYOUT PLAN		SHEET A1
													DRAWING STATUS 15%	DRAWING No. C301-WSP-1000-ST-SKT-40001	REV A

Plot Date: 22/07/2022 8:40 AM C:\Users\burgess\OneDrive - WSP 0365\Causeway Link\Drawings\301-CLA-1000-ST-SKT-40002.dwg Plotted By: Burgess, Brent

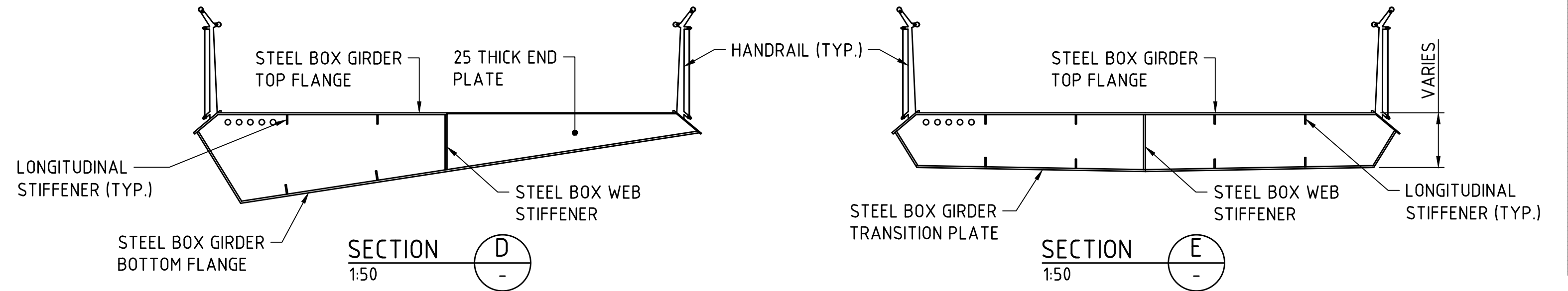
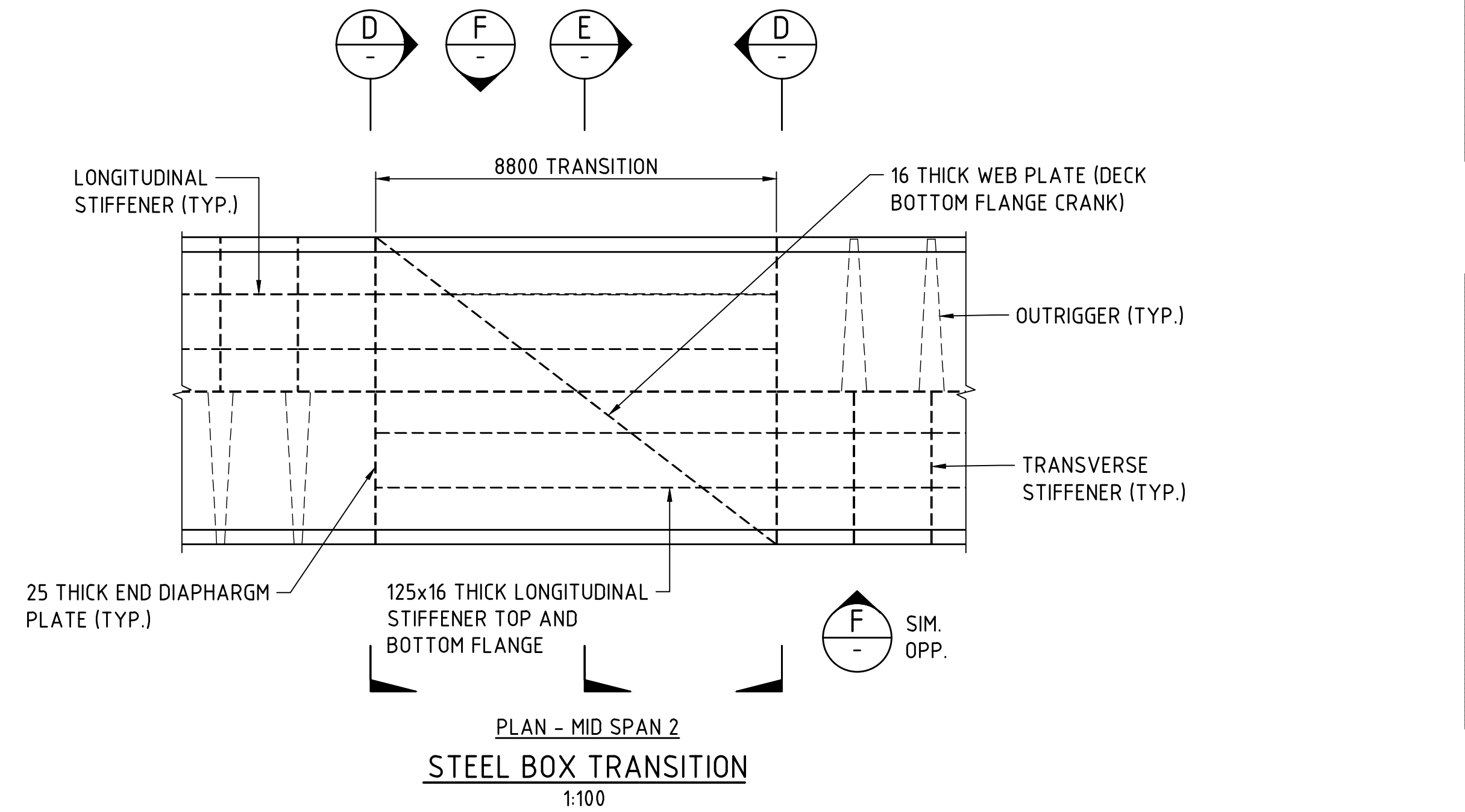
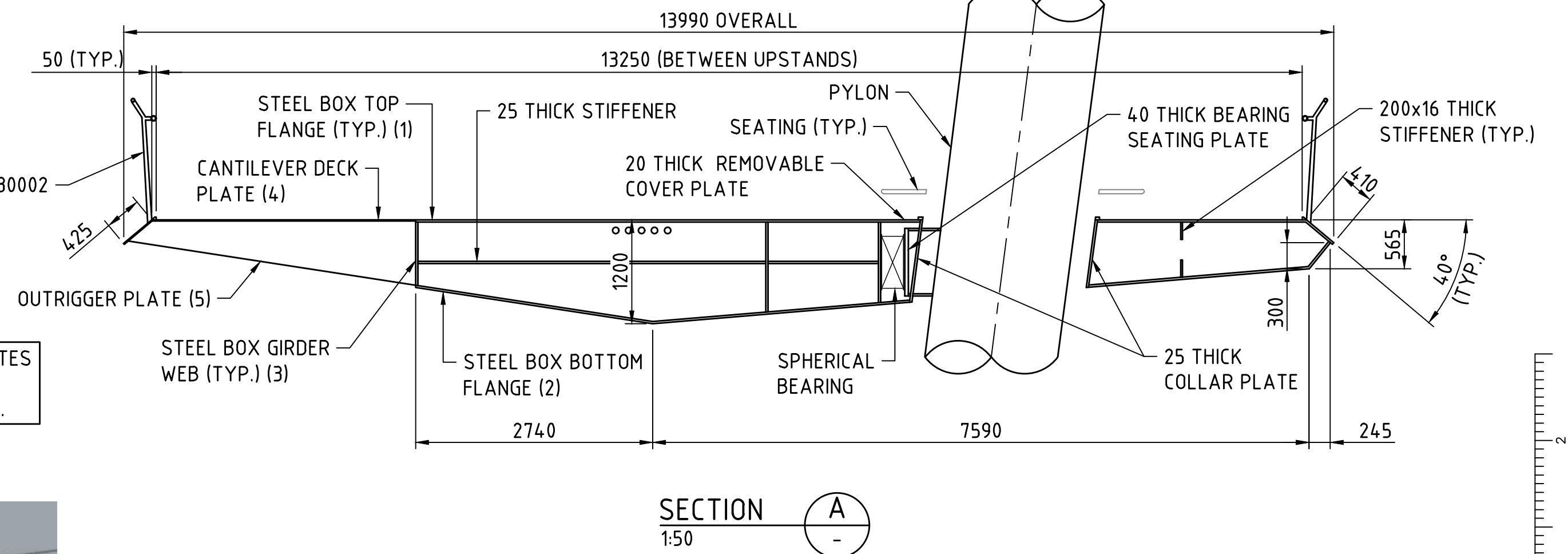
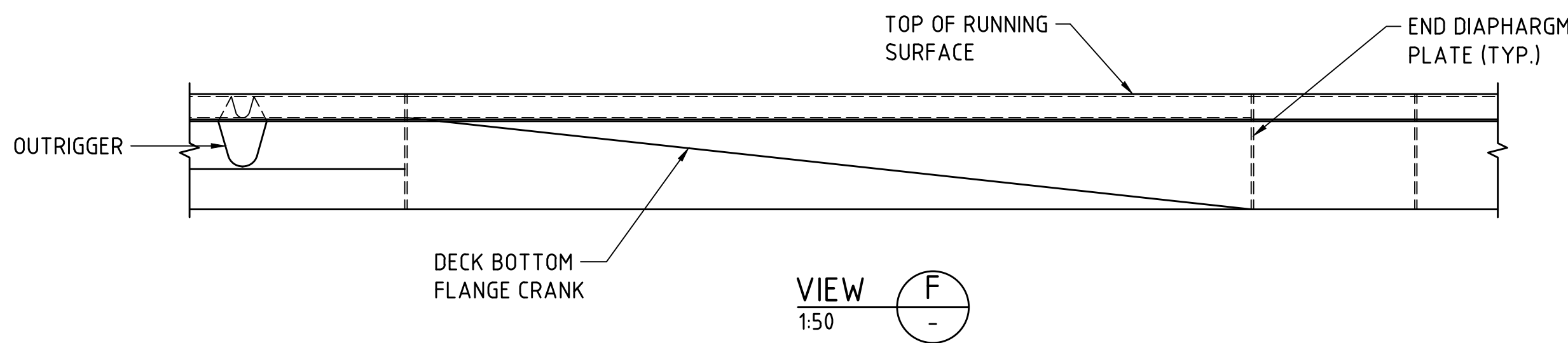
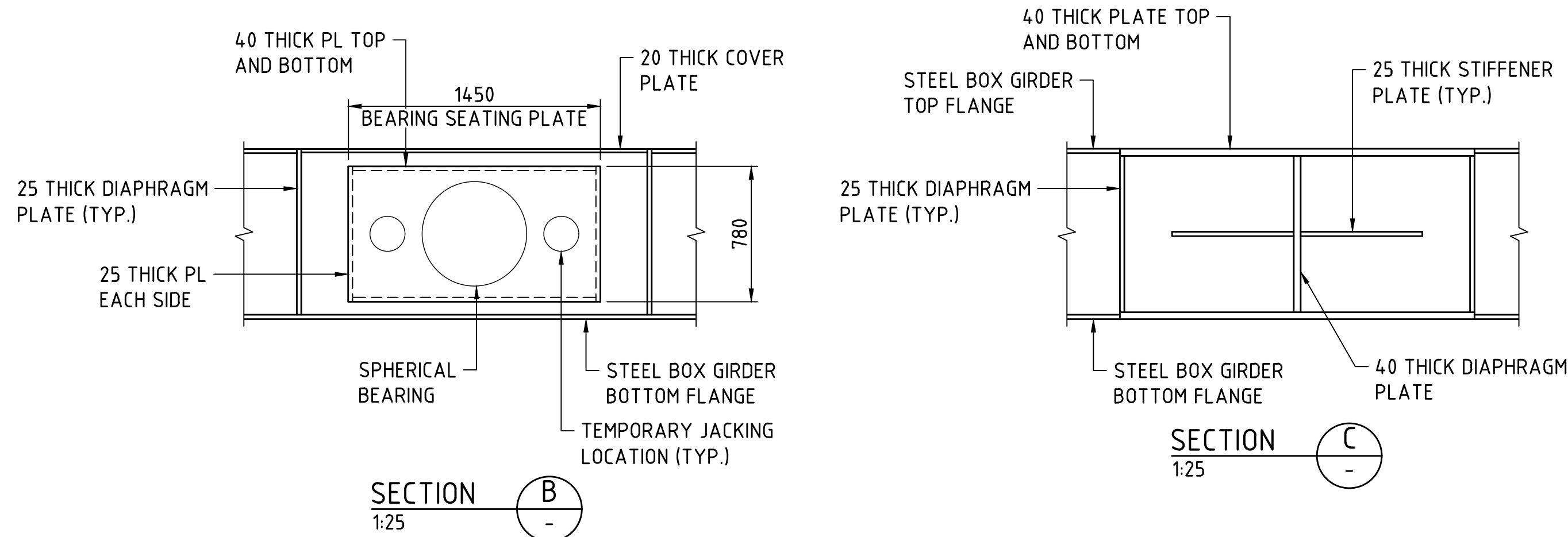


REFER DRG. N° CPCB-ST-000-SKT-30002 FOR HANDRAIL DETAILS (TYP.)

NUMBER IN BRACKETS (#) DENOTES MEMBER SIZE. REFER DRG. N° C301-CLA-0000-ST-SKT-40006.



DECK TRANSITION - PERSPECTIVE VIEW
N.T.S.



FOR INFORMATION ONLY

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



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DESIGNED	C.CHANG	21.07.22
CHECKED	G.DUPLESSIS	21.07.22
APPROVED	W.SCHWARZ	21.07.22
DRAWING PATH		

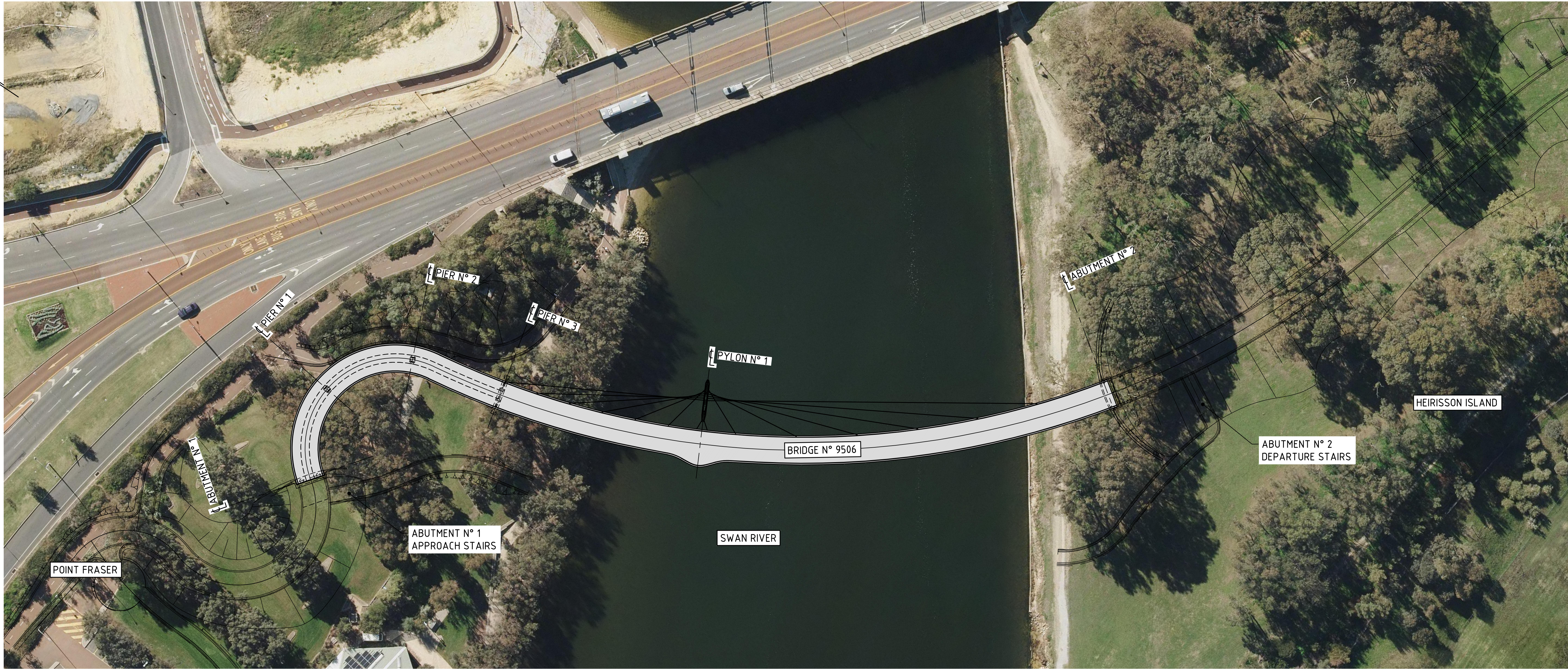
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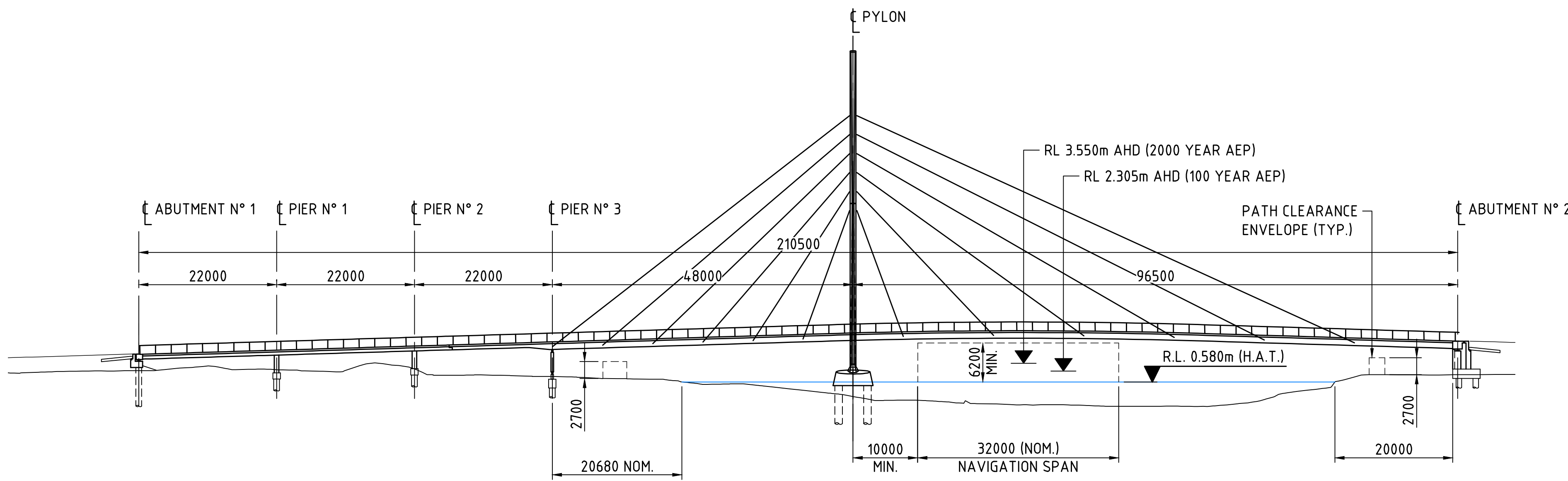
INFRASTRUCTURE DELIVERY DIRECTORATE

LOCAL AUTHORITY	124 - CITY OF PERTH, 125 - TOWN OF VICTORIA PARK	MAIN ROADS RESPONSIBILITY AREA	METROPOLITAN REGION
PROJECT TITLE	CAUSEWAY LINK ALLIANCE		
DRAWING TITLE	CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE 9505 - MCCALLUM PARK SPAN PAUSE POINT AND DECK TRANSITION DETAILS		
DRAWING STATUS	15%	DRAWING No.	C301-CLA-1000-ST-SKT-40002
SHEET	A1	REV	A

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GENERAL ARRANGEMENT PLAN
1:500



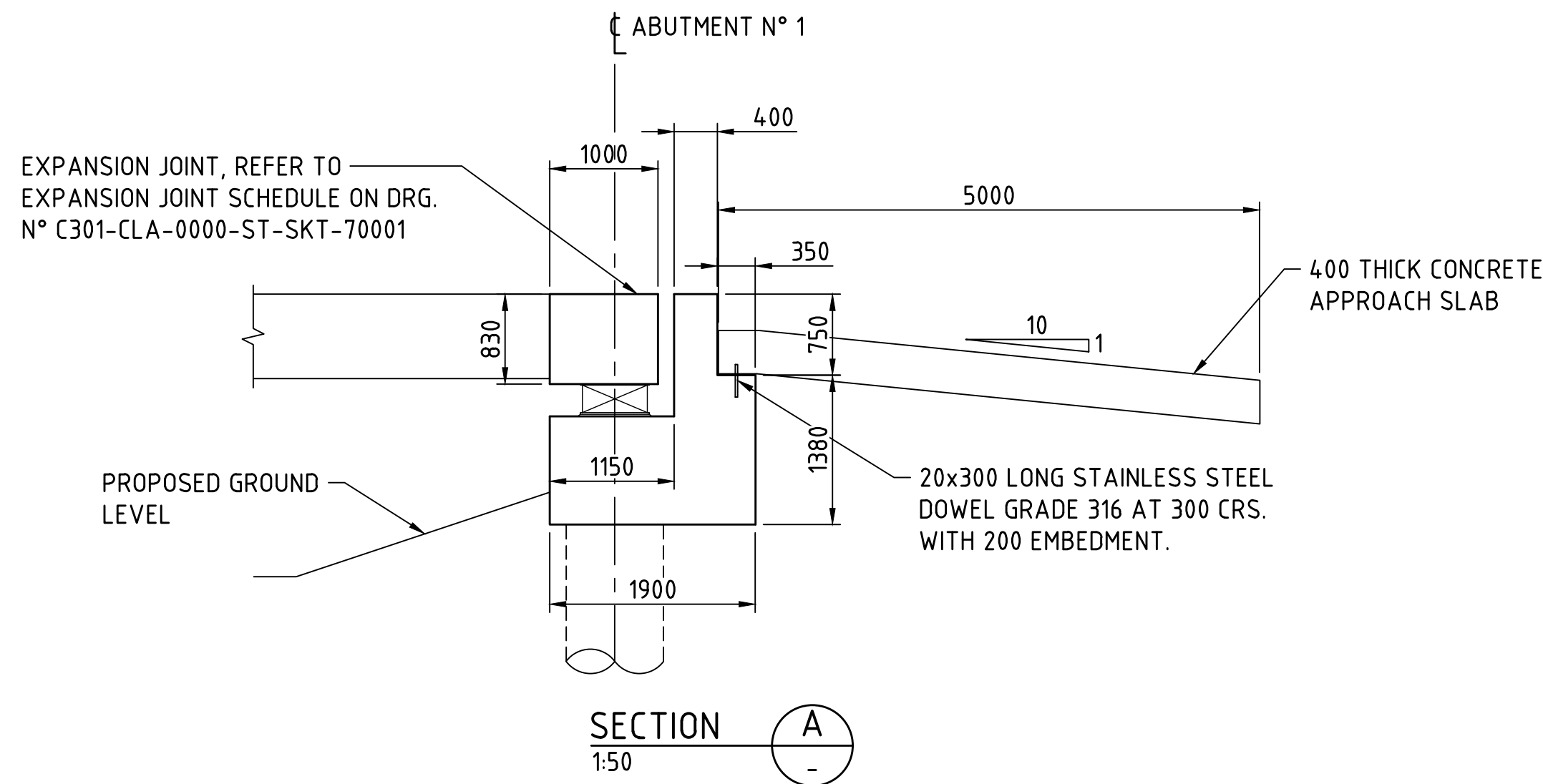
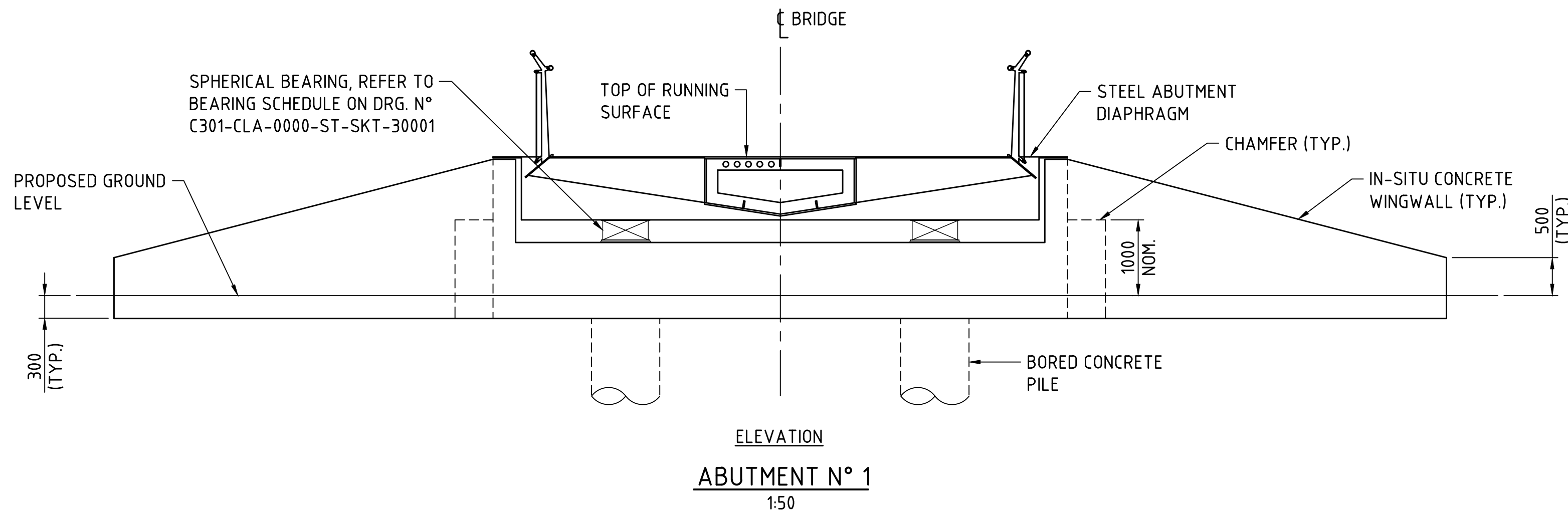
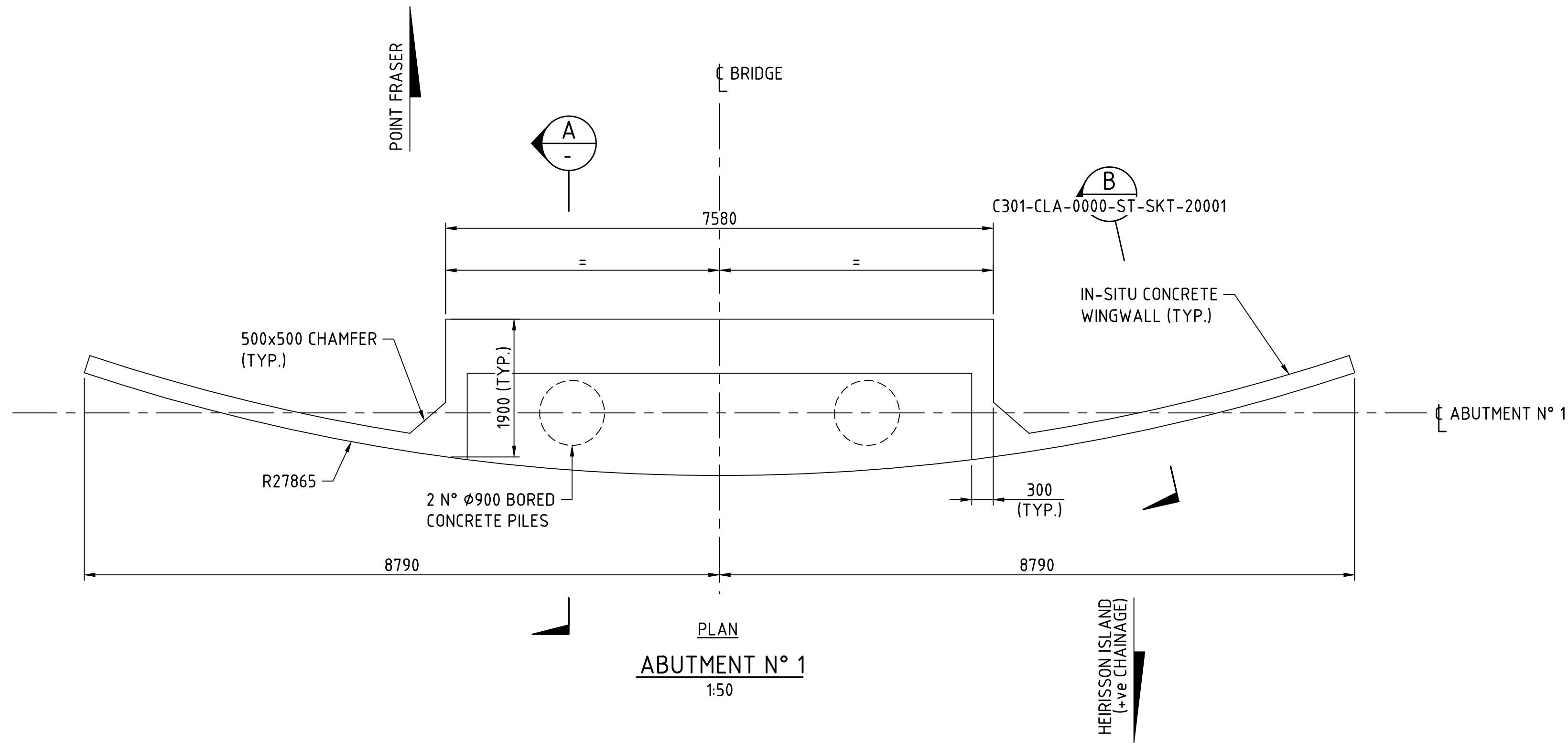
DEVELOPED ELEVATION
1:500

1:500
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FOR INFORMATION ONLY

METADATA		wsp		VERIFIER		Causeway Link Alliance		INFRASTRUCTURE DELIVERY DIRECTORATE		CAUSEWAY LINK ALLIANCE		SHEET A1	
GROUND SURVEY STANDARD:		Level 5 503 Murray Street Perth WA 6000 Telephone +61 8 9489 9700 Facsimile +61 8 9489 9777 Email: perth@wsp.com		DRAWN: B.BURGESS 04.08.22		DESIGNED: C.CHANG 04.08.22		CHECKED: G.DUPLESSIS 04.08.22		APPROVED: W.SCHWARZ 04.08.22		DRAWING STATUS: 15%	
DATE OF CAPTURE:		DATE OF CAPTURE:		DRAWING PATH:		CONTRACT MANAGER:		PROJECT DIRECTOR:		DRAWING TITLE: CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE BRIDGE 9506 - POINT FRASER SPAN GENERAL ARRANGEMENT		DRAWING No: C301-CLA-2000-ST-SKT-00001	
MAPPING SURVEY STANDARD:		MAIN ROADS PROJECT ZONE: PCG94		VERIFIED:		CONTRACT MANAGER:		PROJECT DIRECTOR:		DRAWING STATUS: 15%		REV A	
DATE OF CAPTURE:		HEIGHT DATUM: AHD71		DATE:		DATE:		DATE:		DATE:		DATE:	
ISSUED FOR 15% DESIGN REVIEW		W.S. 04.08.22		AMENDMENTS									

Plot Date: 03/08/2022 2:05 PM C:\p\working\wsp-aus-pw-bentley.com_wsp-aus-pw-19\ud\3559\301-CLA-2000-ST-SKT-10101.dwg Plotted By: Burgess, Brent



PILE DETAILS								
LOCATION	PILE TYPE	DIAMETER (mm)	N° OF PILES	TOP OF PILE RL (m AHD)	PILE LENGTH (m)	MIN. EMBEDMENT INTO KINGS PARK FORMATION (m)	MIN. TEMPORARY CASING LENGTH (m)	ESTIMATED TOP OF KINGS PARK FORMATION (m AHD)
ABUTMENT N° 1	BORED PILE	900	2	2.2	32.0	2.0	9.0	-28.0

NOTES:
1. REFER DRG. N° C301-CLA-0000-ST-SKT-20002 FOR GEOTECHNICAL NOTES.

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



Level 5
503 Murray Street
Perth WA 6000
Telephone +61 8 9489
9700 Facsimile +61 8 9489
9777 Email: perth@wsp.com

DRAWN: B.BURGESS 04.08.22
DESIGNED: C.CHANG 04.08.22
CHECKED: G.DUPLESSIS 04.08.22
APPROVED: W.SCHWARZ 04.08.22

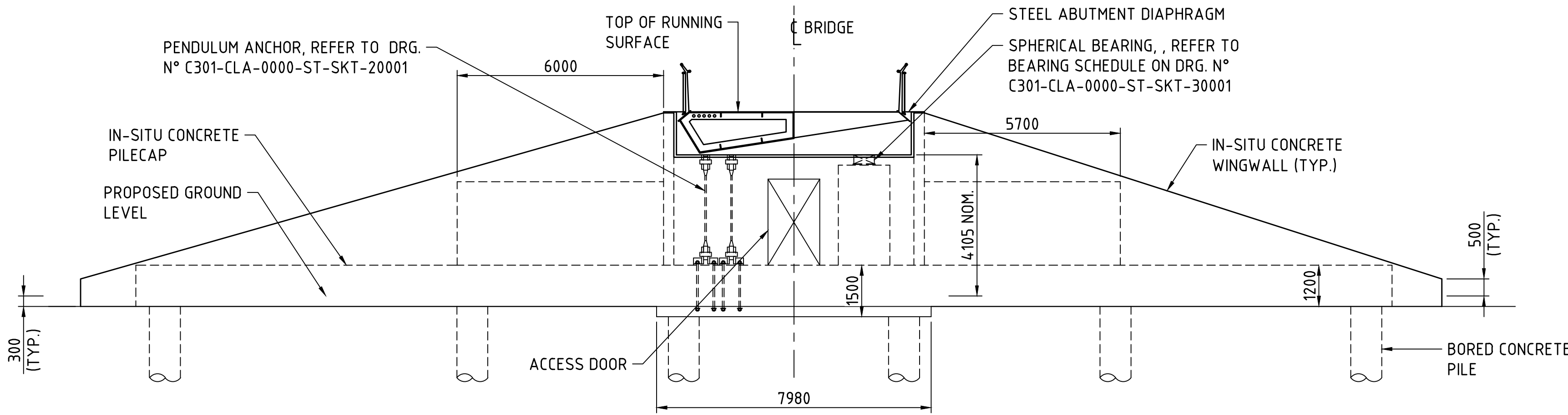
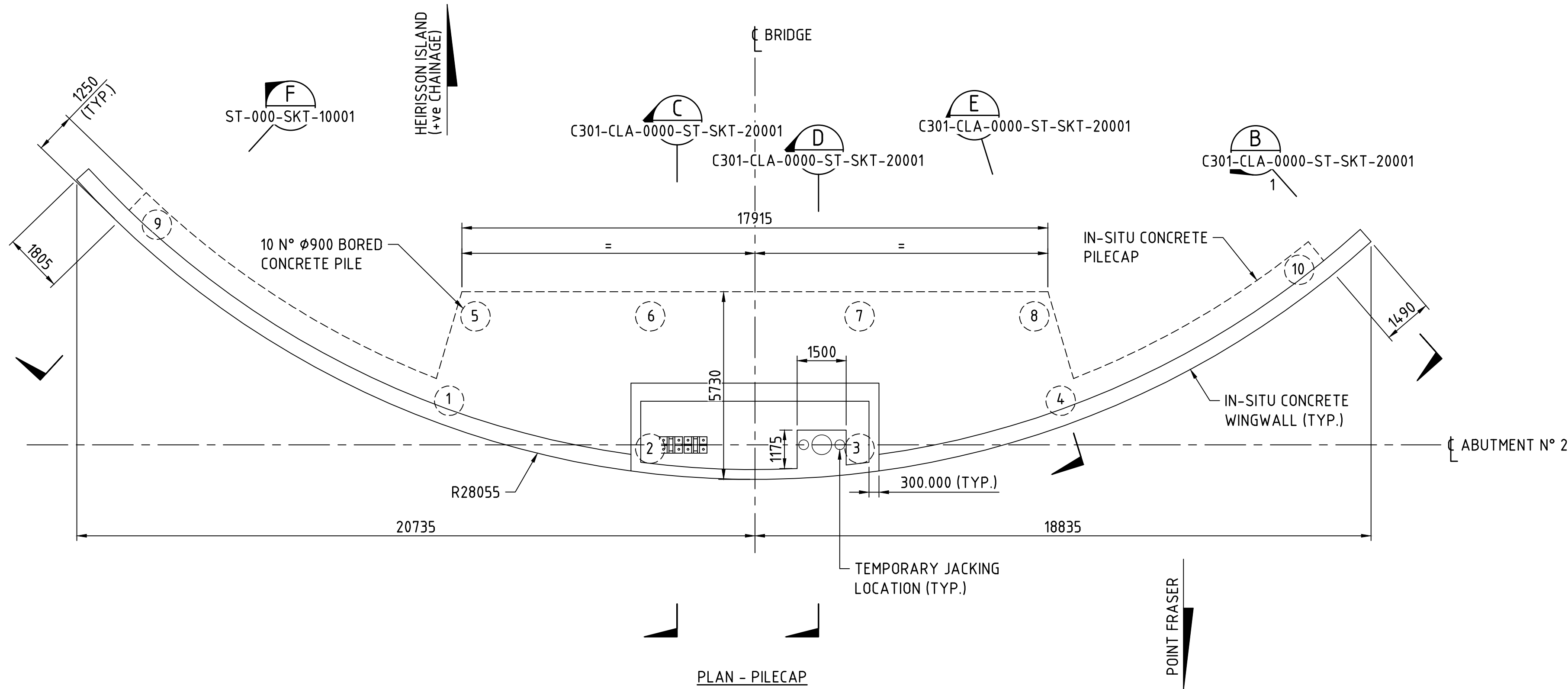
VERIFIER



INFRASTRUCTURE DELIVERY DIRECTORATE

LOCAL AUTHORITY 024 - CITY OF PERTH, 029 - TOWN OF VICTORIA PARK		MAIN ROADS RESPONSIBILITY AREA METROPOLITAN REGION	
MRWA DRAWING NUMBER			
PROJECT TITLE CAUSEWAY LINK ALLIANCE			
DRAWING TITLE CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE BRIDGE 9506 - POINT FRASER SPAN ABUTMENT DETAILS SHEET 1 OF 2			
DRAWING STATUS 15%		DRAWING No. C301-CLA-2000-ST-SKT-10101	
SHEET A1		REV A	

Plot Date: 03/08/2022 2:06 PM C:\p\working\wsp-aus-pw-bentley.com_wsp-aus-pw-19\ud\3559\c301-cla-2000-ST-SKT-10102.dwg Plotted By: Burgess, Brent



PILE DETAILS						
LOCATION	PILE TYPE	DIAMETER (mm)	N° OF PILES	TOP OF PILE RL (m AHD)	PILE LENGTH (m)	MIN. TEMPORARY CASING LENGTH (m)
ABUTMENT N° 2	BORED PILE	900	10	1.2	REFER PILE LENGTH TABLE	9.0

PILE LENGTH			
PILE N°	LENGTH (m)	MIN. EMBEDMENT INTO KINGS PARK FORMATION (m)	ESTIMATED TOP OF KINGS PARK FORMATION (m AHD)
1 - 4	43.0	2.0	-40.0
5 - 8	31.0	-	
9 - 10	19.0	-	

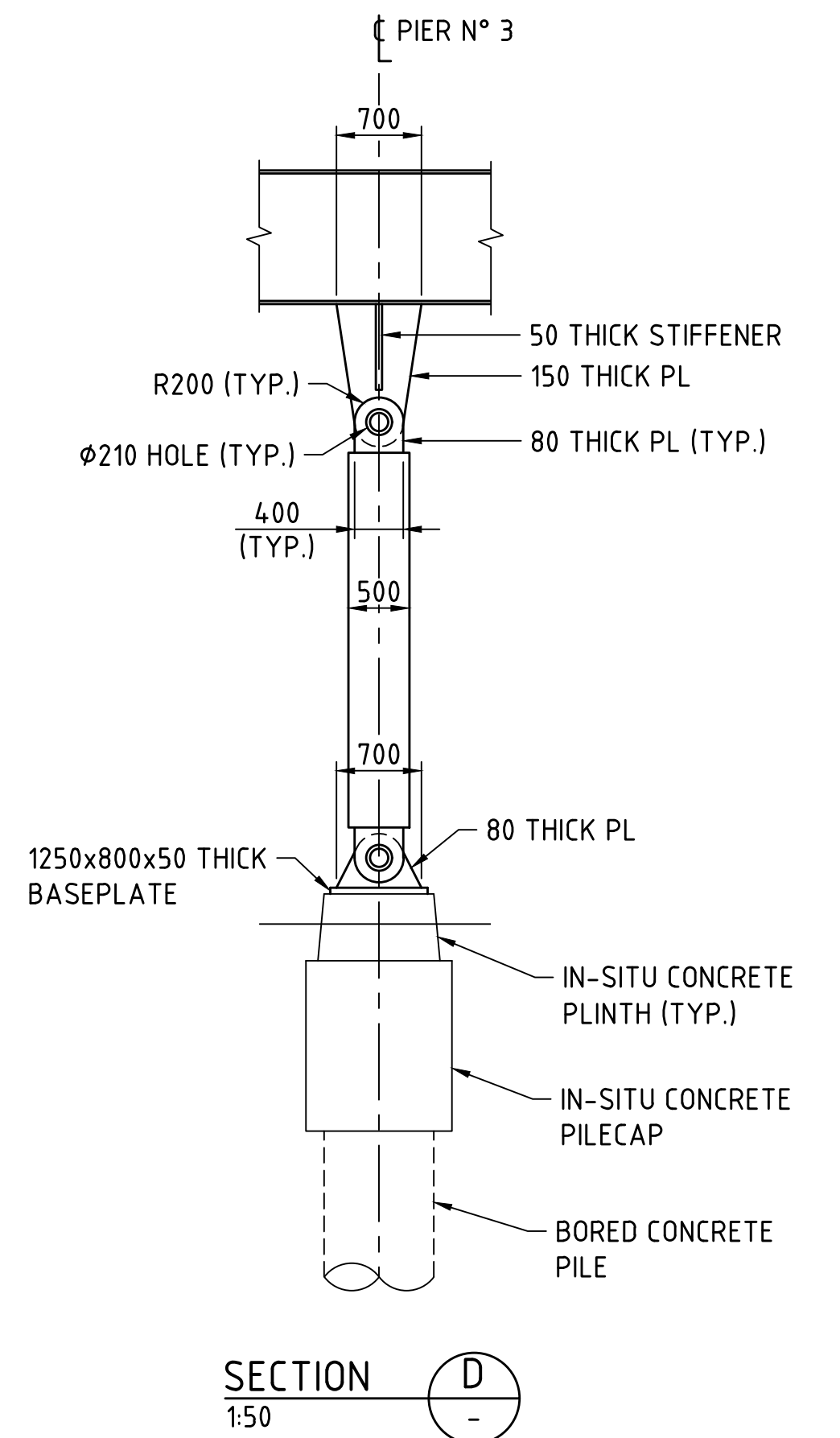
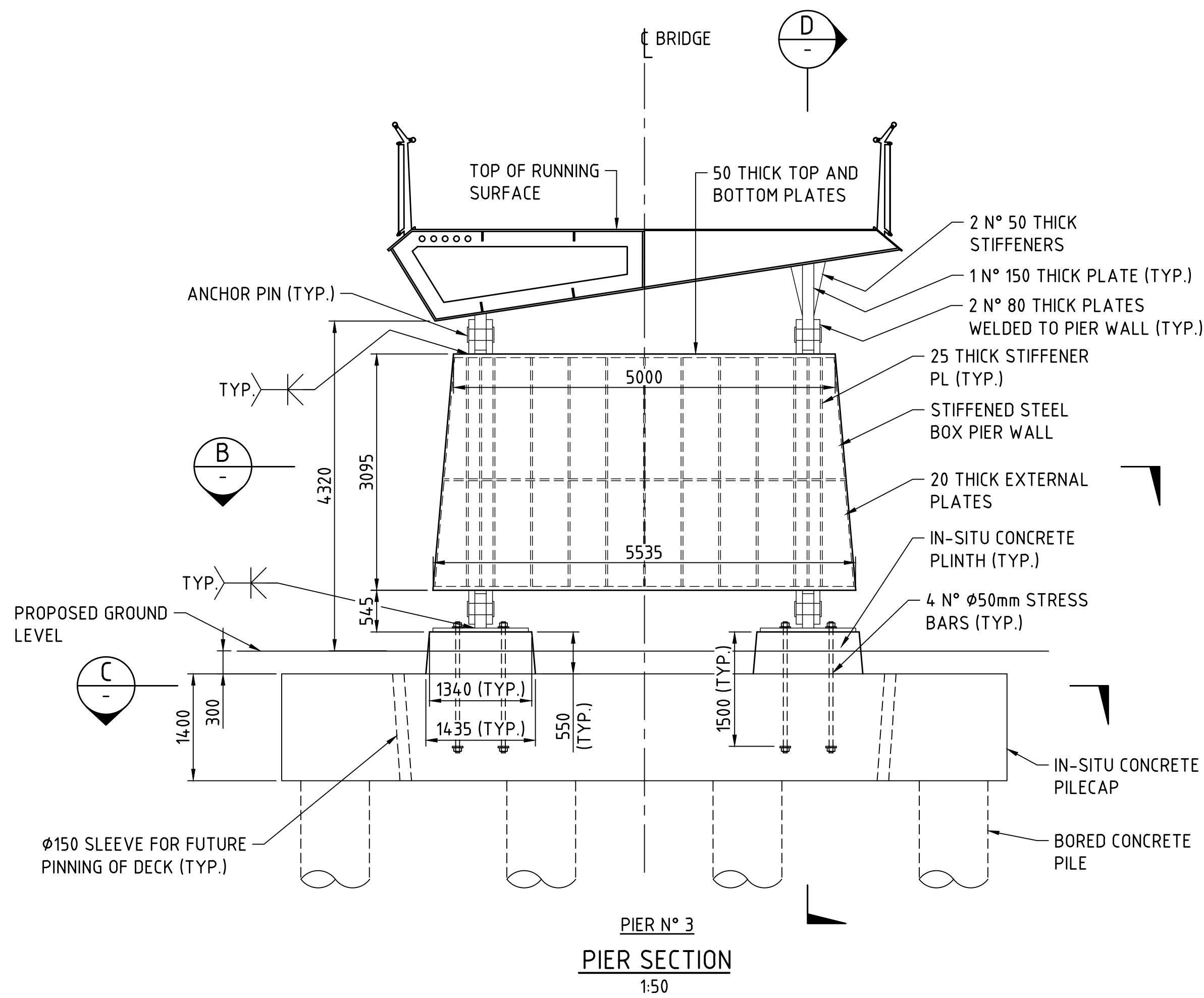
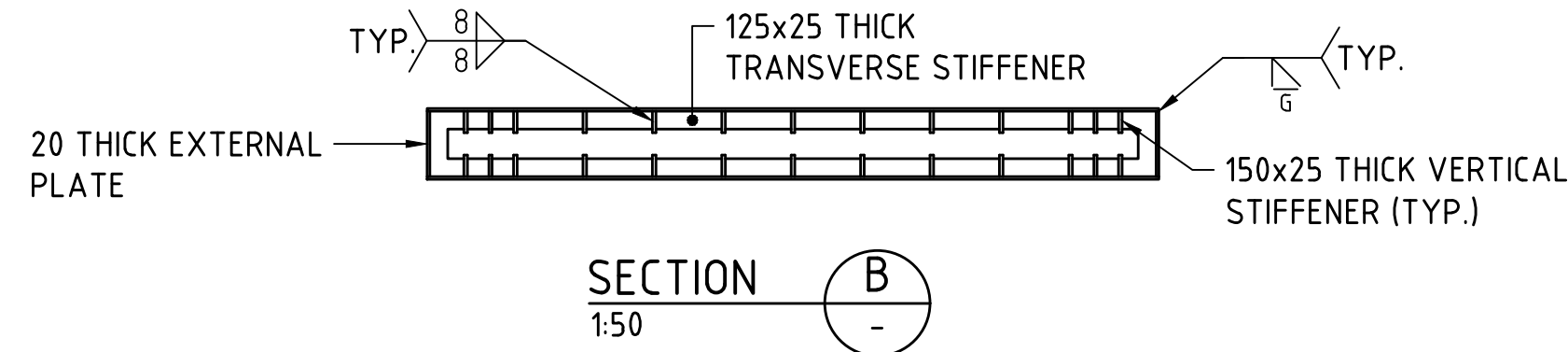
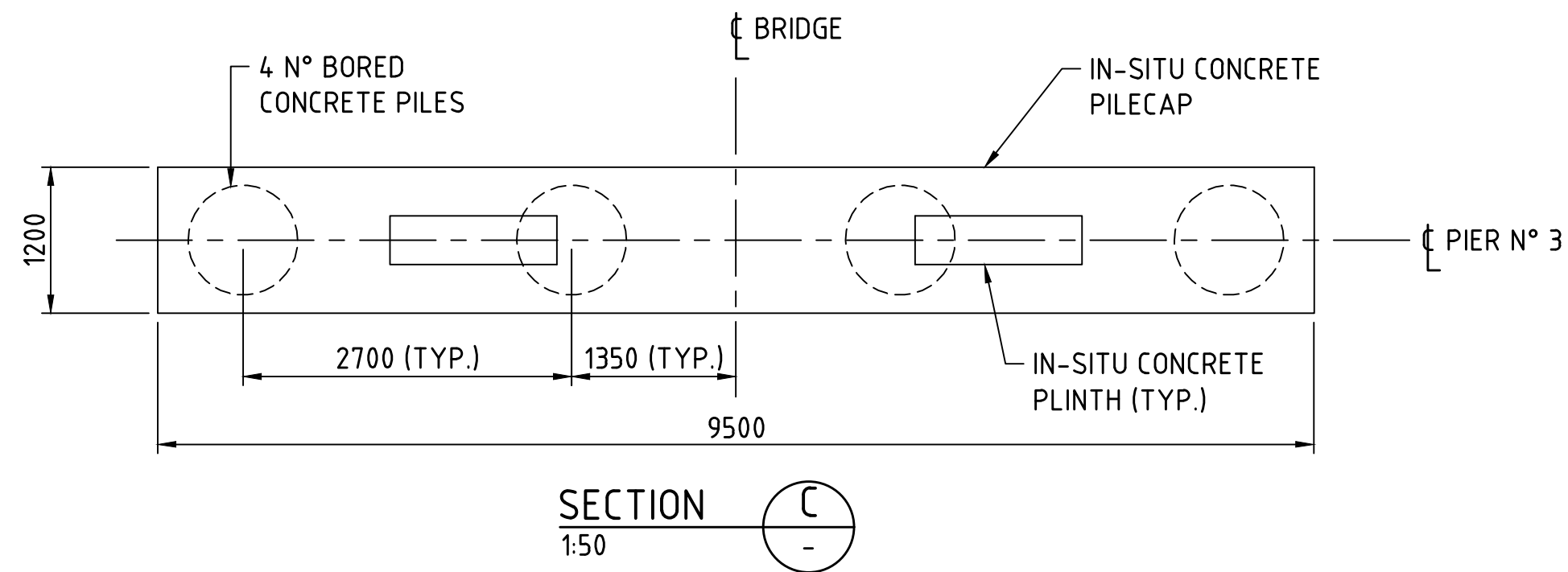
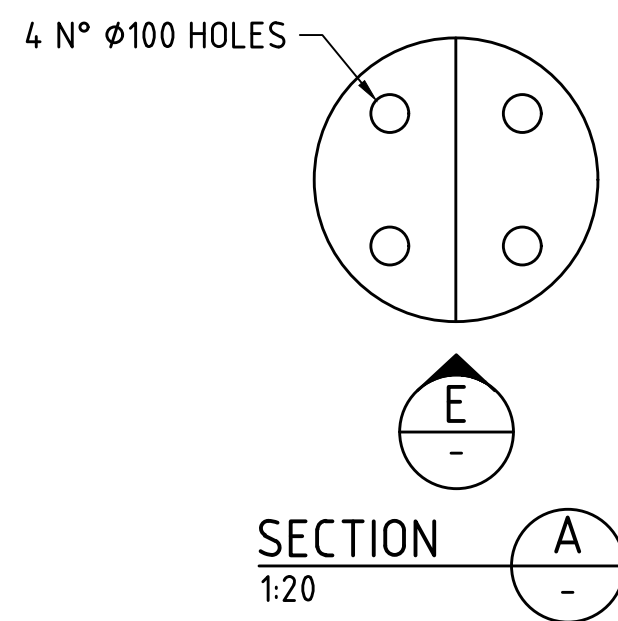
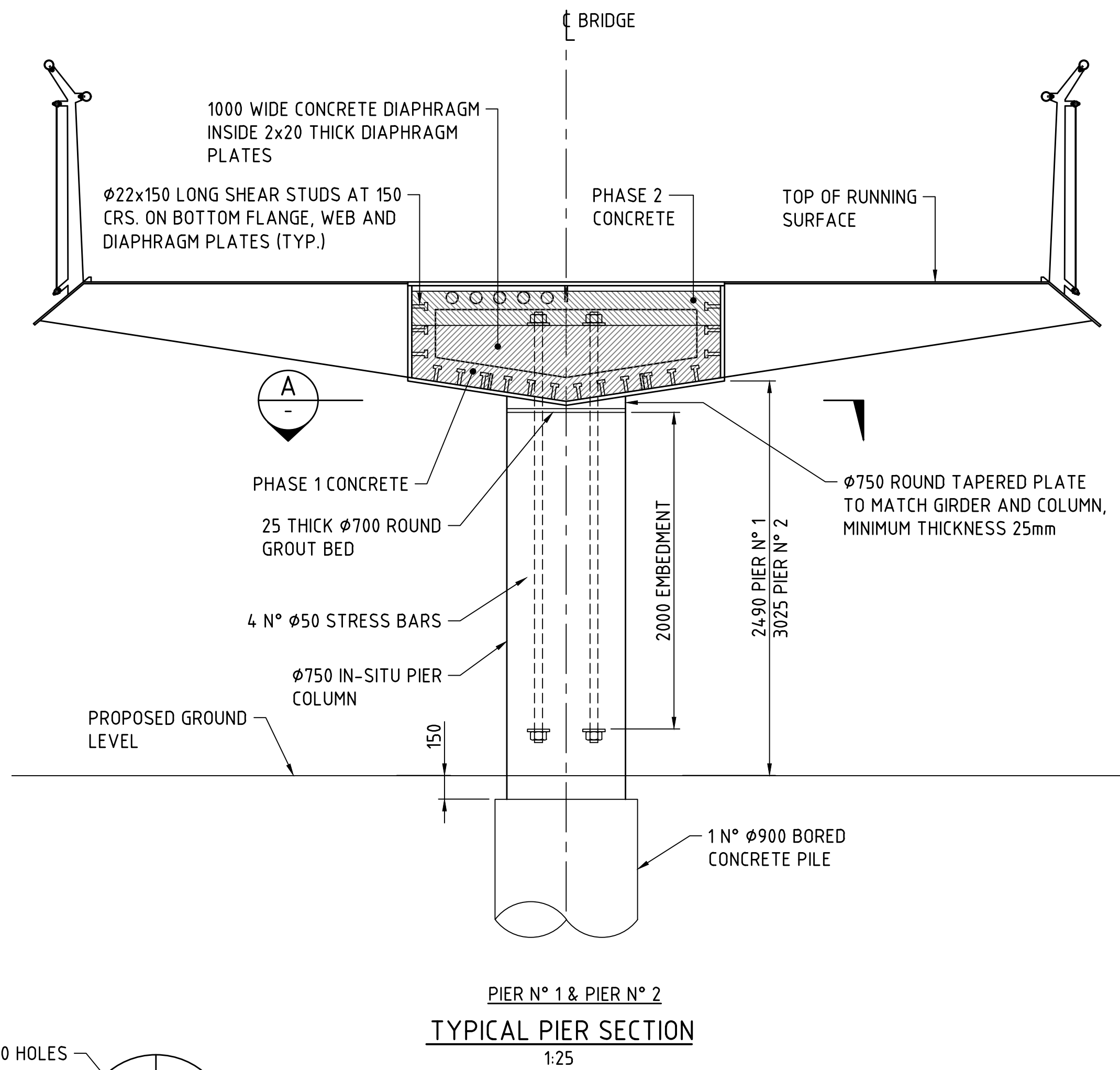
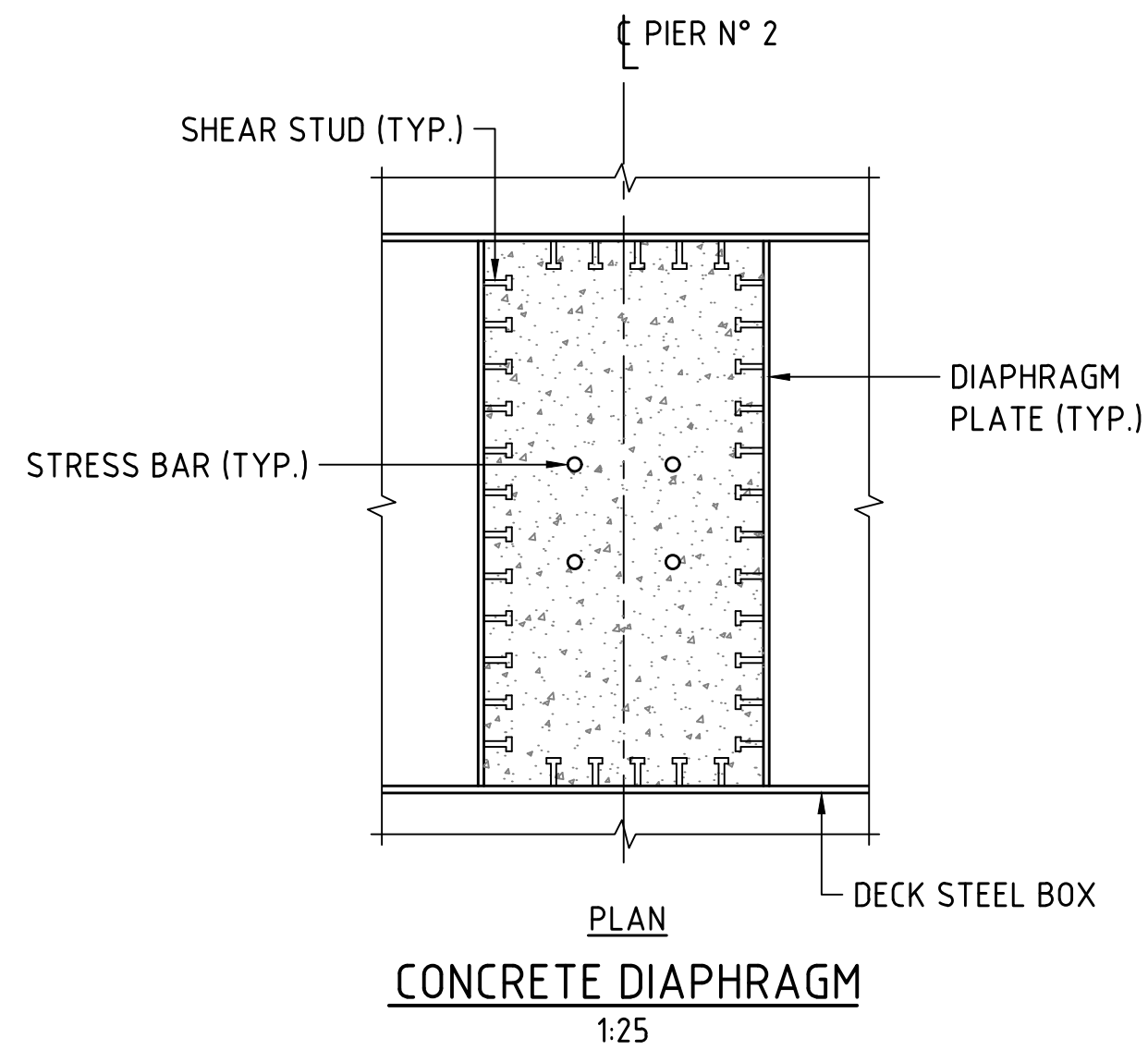
NOTES:
1. REFER DRG. N° C301-CLA-0000-ST-SKT-20002 FOR GEOTECHNICAL NOTES.

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METROP

FOR INFORMATION ONLY

				METADATA		 Level 5 503 Murray Street Perth WA 6000 Telephone +61 8 9489 9700 Facsimile +61 8 9489 9777 Email: perth@wsp.com		DRAWN B.BURGESS 04.08.22				  INFRASTRUCTURE DELIVERY DIRECTORATE		MRWA DRAWING NUMBER	
				PROJECT TITLE CAUSEWAY LINK ALLIANCE											
				DRAWING TITLE CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE BRIDGE 9506 - POINT FRASER SPAN ABUTMENT DETAILS SHEET 2 OF 2											
A	ISSUED FOR 15% DESIGN REVIEW		W.S. 04.08.22		DATE OF CAPTURE: MAPPING SURVEY STANDARD: DATE OF CAPTURE:				VERIFIER				DRAWING STATUS 15%		
No.	DESCRIPTION		APPROVED & DATE		MAIN ROADS PROJECT ZONE: PCG94 HEIGHT DATUM: AHD71				DRAWING PATH VERIFIED DATE		CONTRACT MANAGER PROJECT DIRECTOR		DRAWING No. C301-CLA-2000-ST-SKT-10102		
		AMENDMENTS												SHEET A1	
														REV A	

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PILE DETAILS								
LOCATION	PILE TYPE	DIAMETER (mm)	N° OF PILES	TOP OF PILE RL (m AHD)	PILE LENGTH (m)	MIN. EMBEDMENT INTO KINGS PARK FORMATION (m)	MIN. TEMPORARY CASING LENGTH (m)	ESTIMATED TOP OF KINGS PARK FORMATION (m AHD)
PIER N° 1	BORED PILE	900	1	2.2	32.0	2.0	9.0	-28.0
PIER N° 2	BORED PILE	900	1	1.7	32.0	3.0	9.0	-28.0
PIER N° 3	BORED PILE	900	4	0.3	33.0	8.0	9.0	-25.6

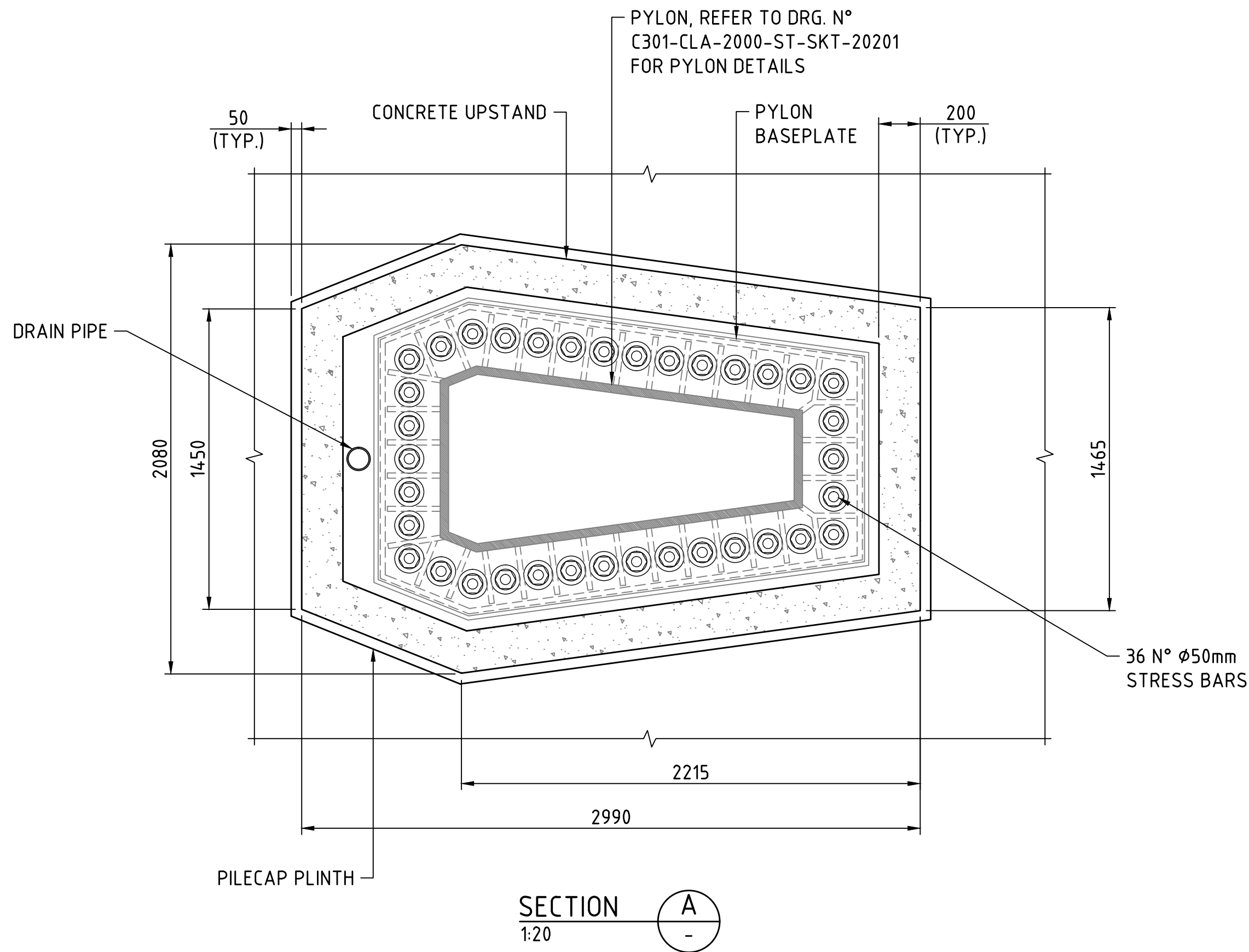
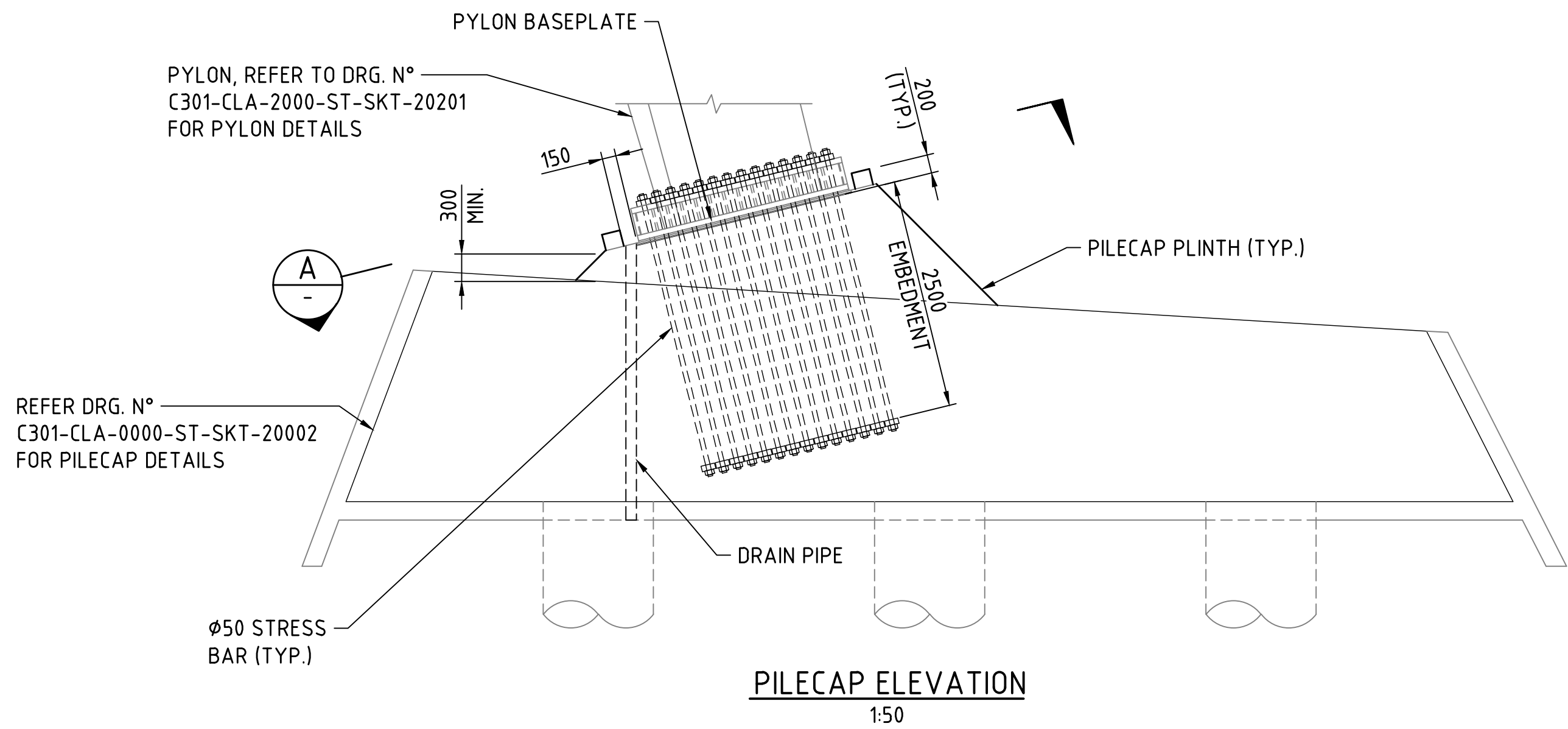
NOTES:

1. REFER DRG. N° CPCB-ST-000-SKT-20001 FOR GEOTECHNICAL NOTES.

FOR INFORMATION ONLY

METADATA		WSP		DRAWN		DESIGNED		CHECKED		APPROVED		DRAWING PATH		CONTRACT MANAGER		PROJECT DIRECTOR		DRAWING STATUS		DRAWING No.		SHEET	
GROUND SURVEY STANDARD:		Level 5		B.BURGESS		C.CHANG		G.DUPLESSIS		W.SCHWARZ		VERIFIED		DATE		DATE		15%		C301-CLA-2000-ST-SKT-10201		A1	
DATE OF CAPTURE:		503 Murray Street		04.08.22		04.08.22		04.08.22		04.08.22		DATE		DATE		DATE		DATE		C301-CLA-2000-ST-SKT-10201		REV	
MAPPING SURVEY STANDARD:		Perth WA 6000		04.08.22		04.08.22		04.08.22		04.08.22		DATE		DATE		DATE		DATE		C301-CLA-2000-ST-SKT-10201		REV	
DATE OF CAPTURE:		Telephone +61 8 9489		04.08.22		04.08.22		04.08.22		04.08.22		DATE		DATE		DATE		DATE		C301-CLA-2000-ST-SKT-10201		REV	
MAIN ROADS PROJECT ZONE:		9700 Facsimile +61 8 9489		04.08.22		04.08.22		04.08.22		04.08.22		DATE		DATE		DATE		DATE		C301-CLA-2000-ST-SKT-10201		REV	
HEIGHT DATUM:		perth@wsp.com		04.08.22		04.08.22		04.08.22		04.08.22		DATE		DATE		DATE		DATE		C301-CLA-2000-ST-SKT-10201		REV	
ISSUED FOR 15% DESIGN REVIEW		W.S. 04.08.22		04.08.22		04.08.22		04.08.22		04.08.22		DATE		DATE		DATE		DATE		C301-CLA-2000-ST-SKT-10201		REV	
AMENDMENTS		APPROVED & DATE		04.08.22		04.08.22		04.08.22		04.08.22		DATE		DATE		DATE		DATE		C301-CLA-2000-ST-SKT-10201		REV	

Plot Date: 03/08/2022 2:06 PM Cad File: C:\pwworking\wsp-aus-pw-bentley.com_wsp-aus-pw-19\ud03559\c301-cla-2000-st-skt-2010.dwg Plotted By: Burgess, Brent



FOR INFORMATION ONLY

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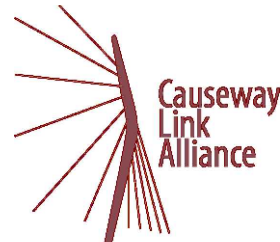
GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



Level 5
503 Murray Street
Perth WA 6000
Telephone +61 8 9489
9700 Facsimile +61 8 9489
9777 Email:
perth@wsp.com

DRAWN	B.BURGESS	04.08.22
DESIGNED	C.CHANG	04.08.22
CHECKED	G.DUPLESSIS	04.08.22
APPROVED	W.SCHWARZ	04.08.22
DRAWING PATH	VERIFIED	DATE

VERIFIER



INFRASTRUCTURE DELIVERY DIRECTORATE

LOCAL AUTHORITY
MAIN ROADS RESPONSIBILITY AREA
10 - CITY OF PERTH, 09 - TOWN OF VICTORIA PARK

MRWA DRAWING NUMBER

PROJECT TITLE
CAUSEWAY LINK ALLIANCE

DRAWING TITLE
CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE
BRIDGE 9506 - POINT FRASER SPAN
PYLON BASE DETAILS

DRAWING STATUS
15%

DRAWING No.
C301-CLA-2000-ST-SKT-20101

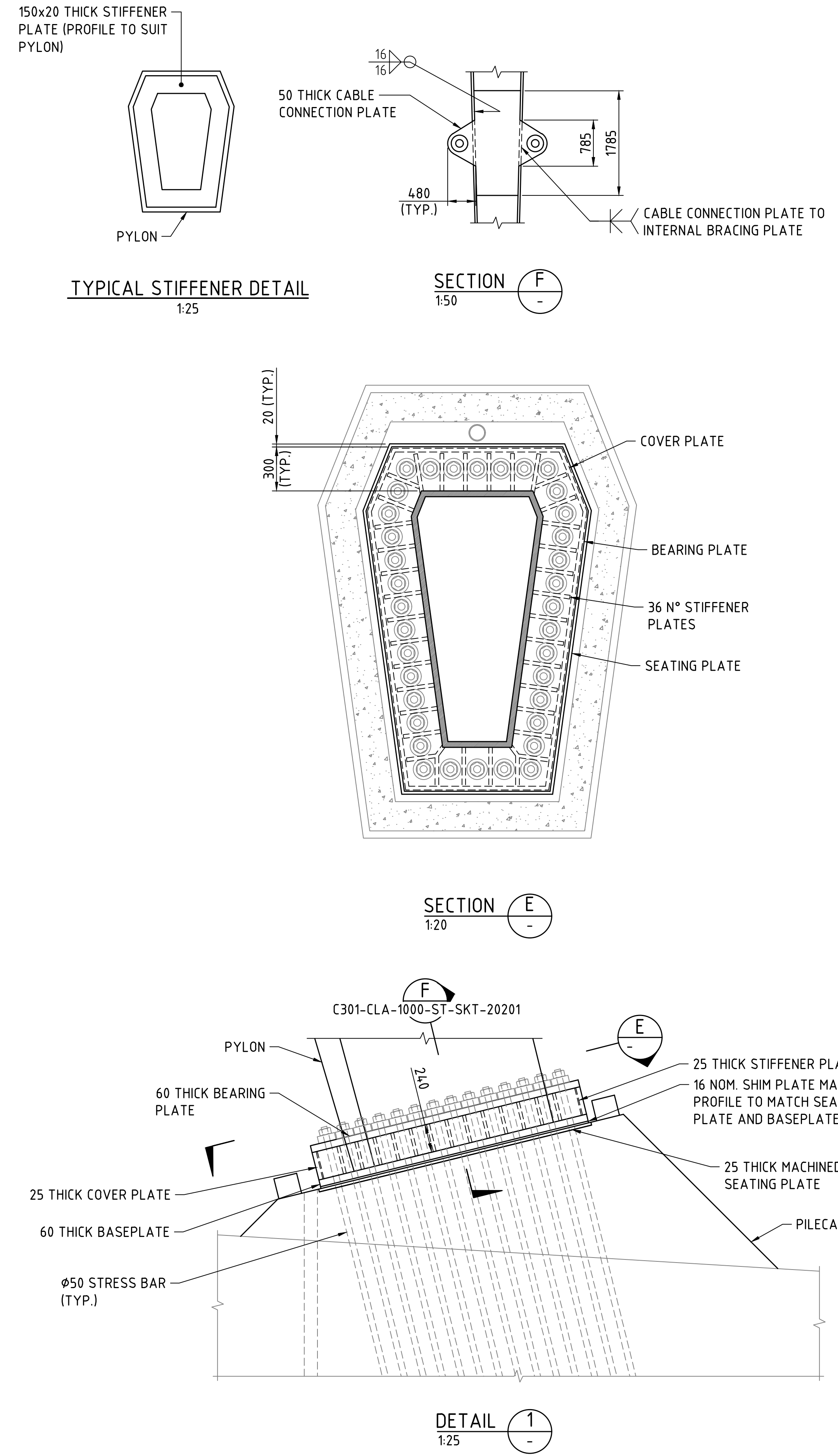
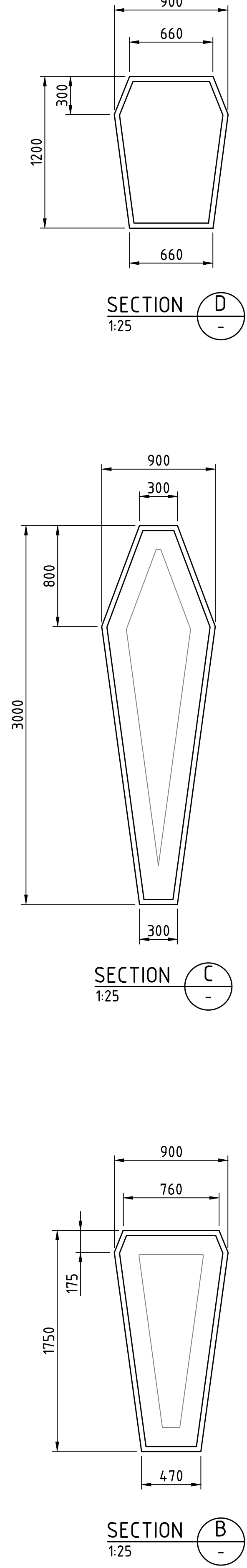
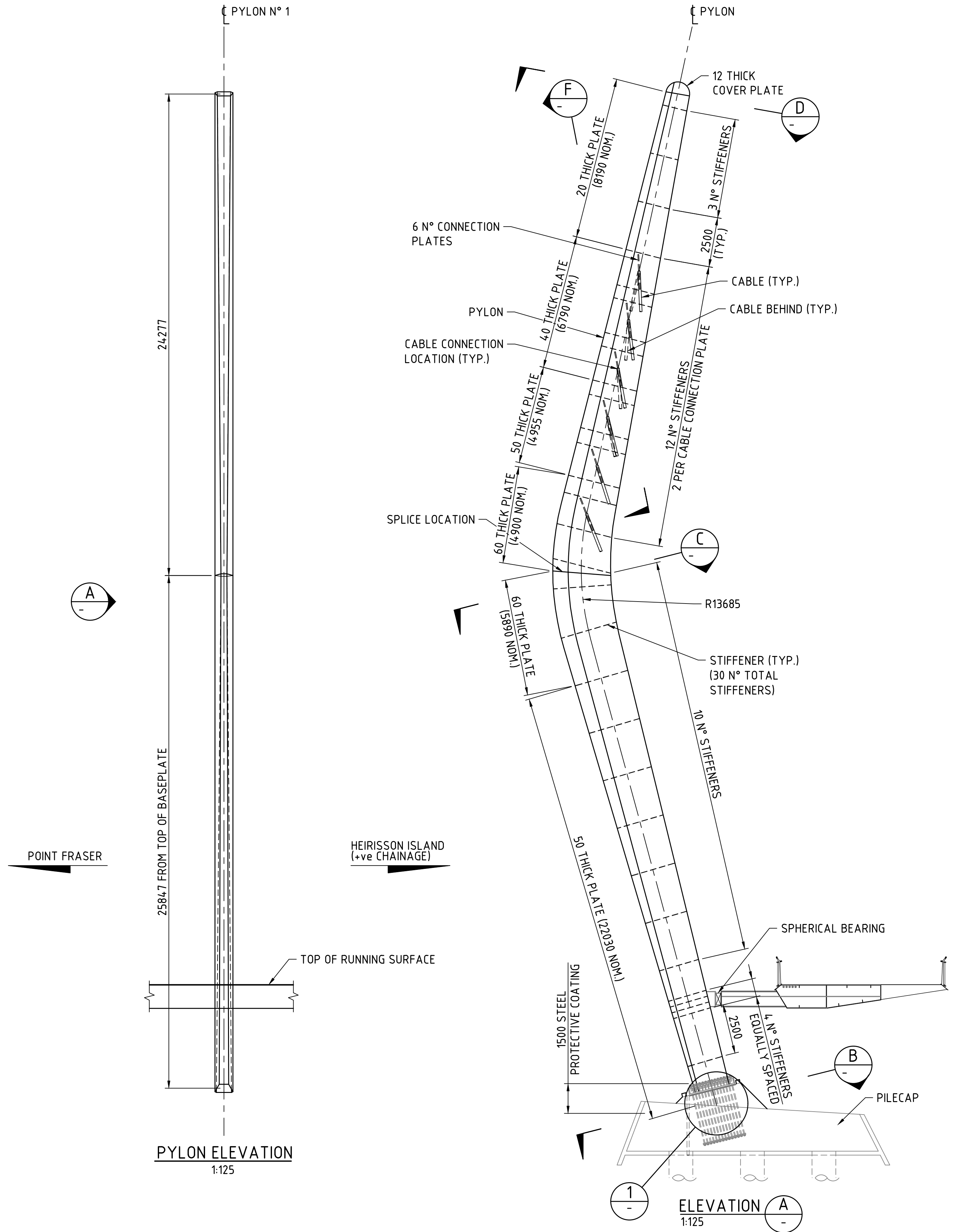
SHEET
A1

REV
A

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METROP

Plot Date: 03/08/2022 2:06 PM C:\pwworking\wsp-aus-pw-bentley.com_wsp-aus-pw-19\p035591\C301-CLA-2000-ST-SKT-20201.dwg Plotted By: Burgess, Brent



FOR INFORMATION ONLY		LOCAL AUTHORITY 124 - CITY OF PERTH, 125 - TOWN OF VICTORIA PARK	MAIN ROADS RESPONSIBILITY AREA METROPOLITAN REGION
MRWA DRAWING NUMBER		PROJECT TITLE CAUSEWAY LINK ALLIANCE	
DRAWING TITLE CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE 9506 - POINT FRASER SPAN PYLON DETAILS		DRAWING STATUS 15%	DRAWING No. C301-CLA-2000-ST-SKT-20201
SHEET A1		REV A	

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE: PCG94
HEIGHT DATUM: AHD71



Level 5
503 Murray Street
Perth WA 6000
Telephone +61 8 9489
9700 Facsimile +61 8 9489
9777 Email: perth@wsp.com

DRAWN	B.BURGESS	04.08.22
DESIGNED	C.CHANG	04.08.22
CHECKED	G.DUPLESSIS	04.08.22
APPROVED	W.SCHWARZ	04.08.22
DRAWING PATH		

VERIFIER

VERIFIED
DATE



CONTRACT MANAGER
PROJECT DIRECTOR



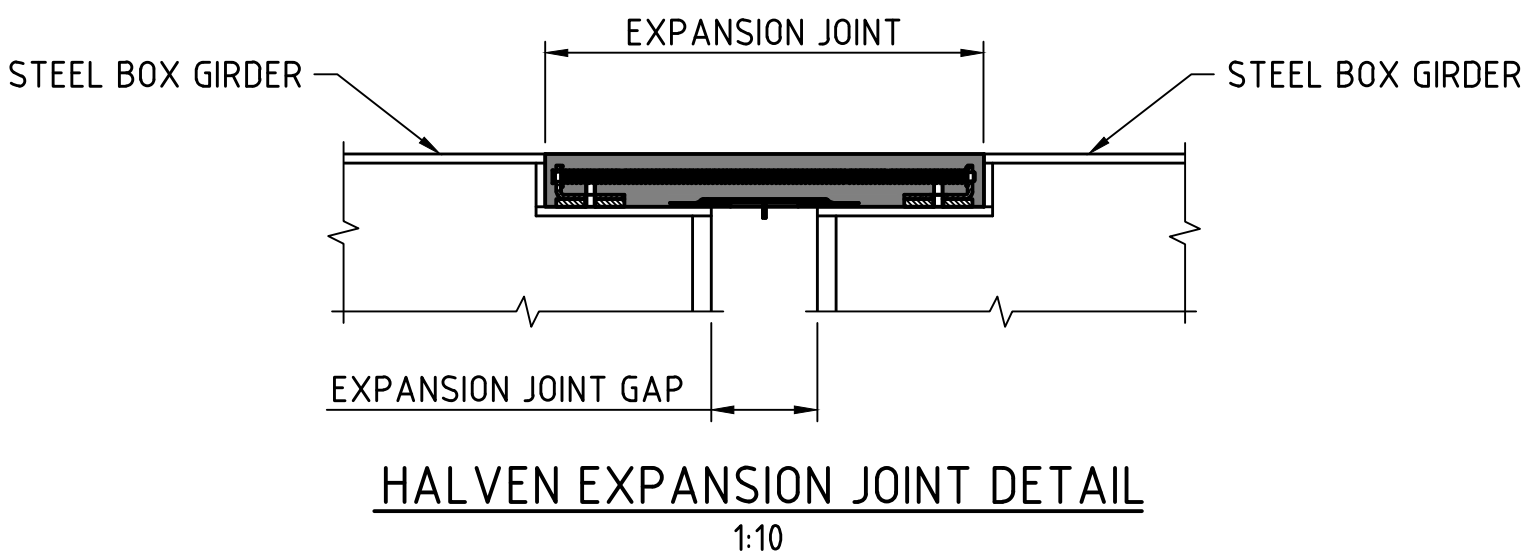
INFRASTRUCTURE DELIVERY DIRECTORATE

CONTRACT MANAGER
PROJECT DIRECTOR



CONTRACT MANAGER
PROJECT DIRECTOR

1. FOR DECK PLATE THICKNESS REFER DRG N° C301-CLA-0000-ST-SKT-40006.

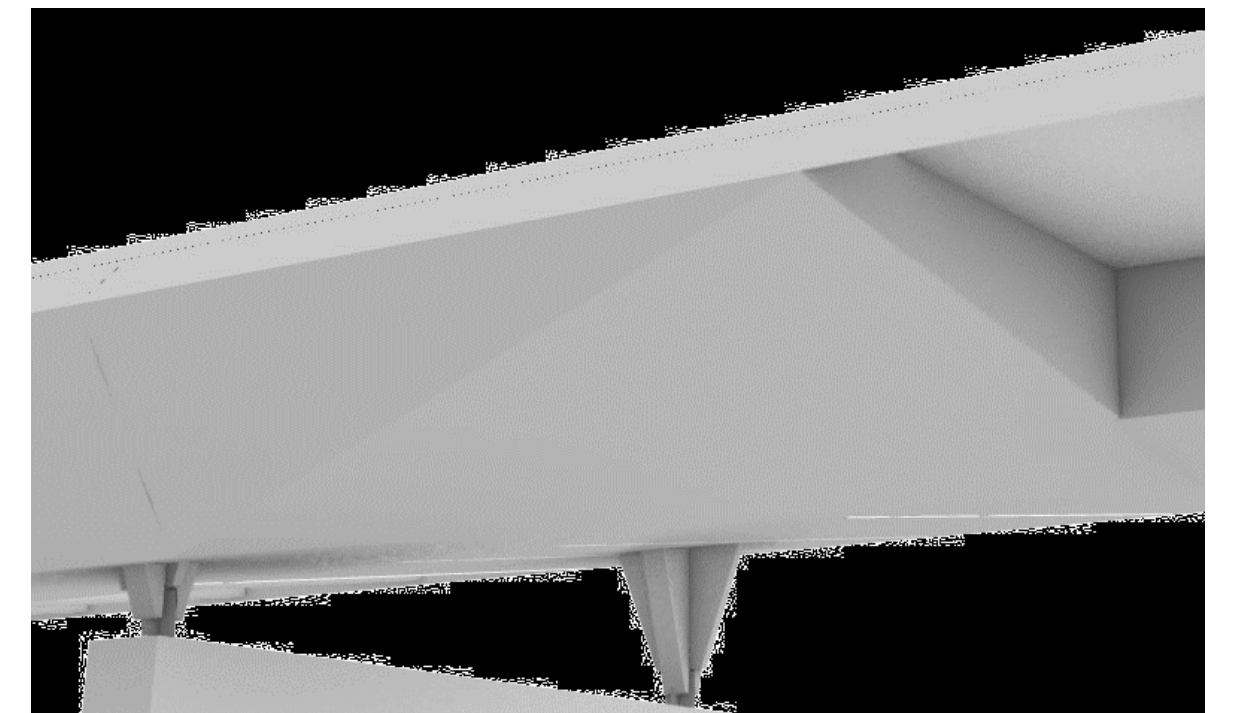
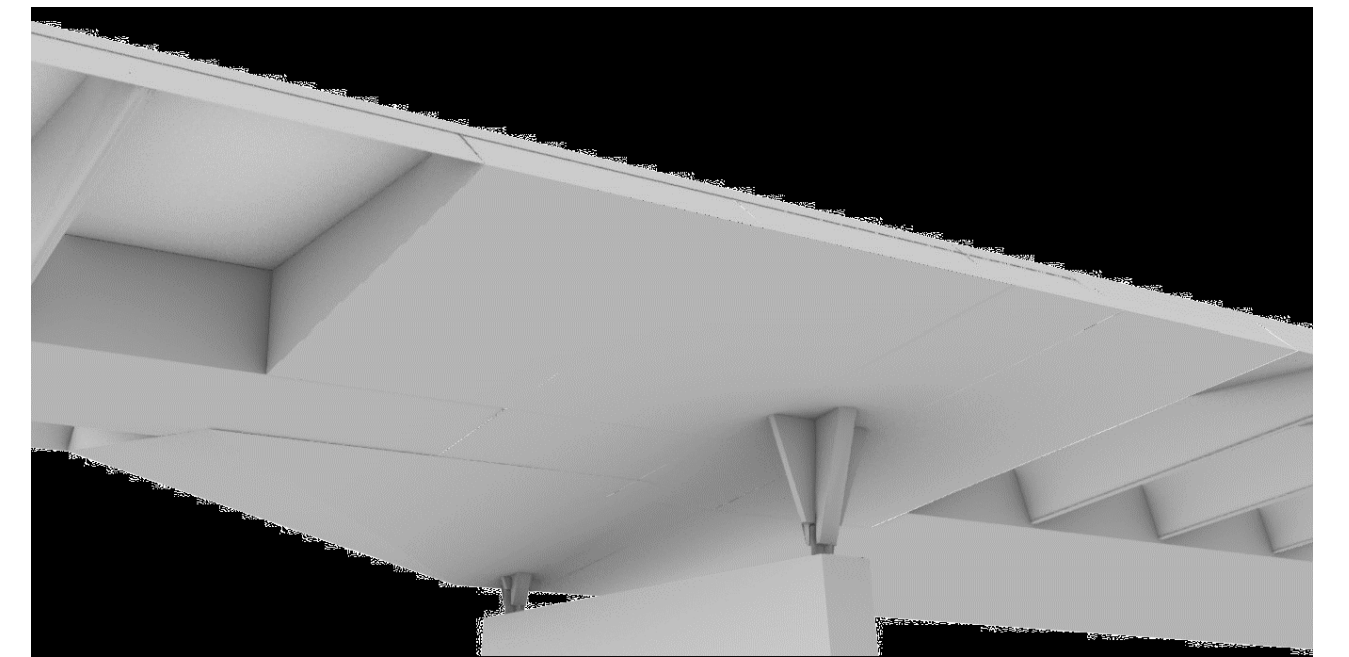
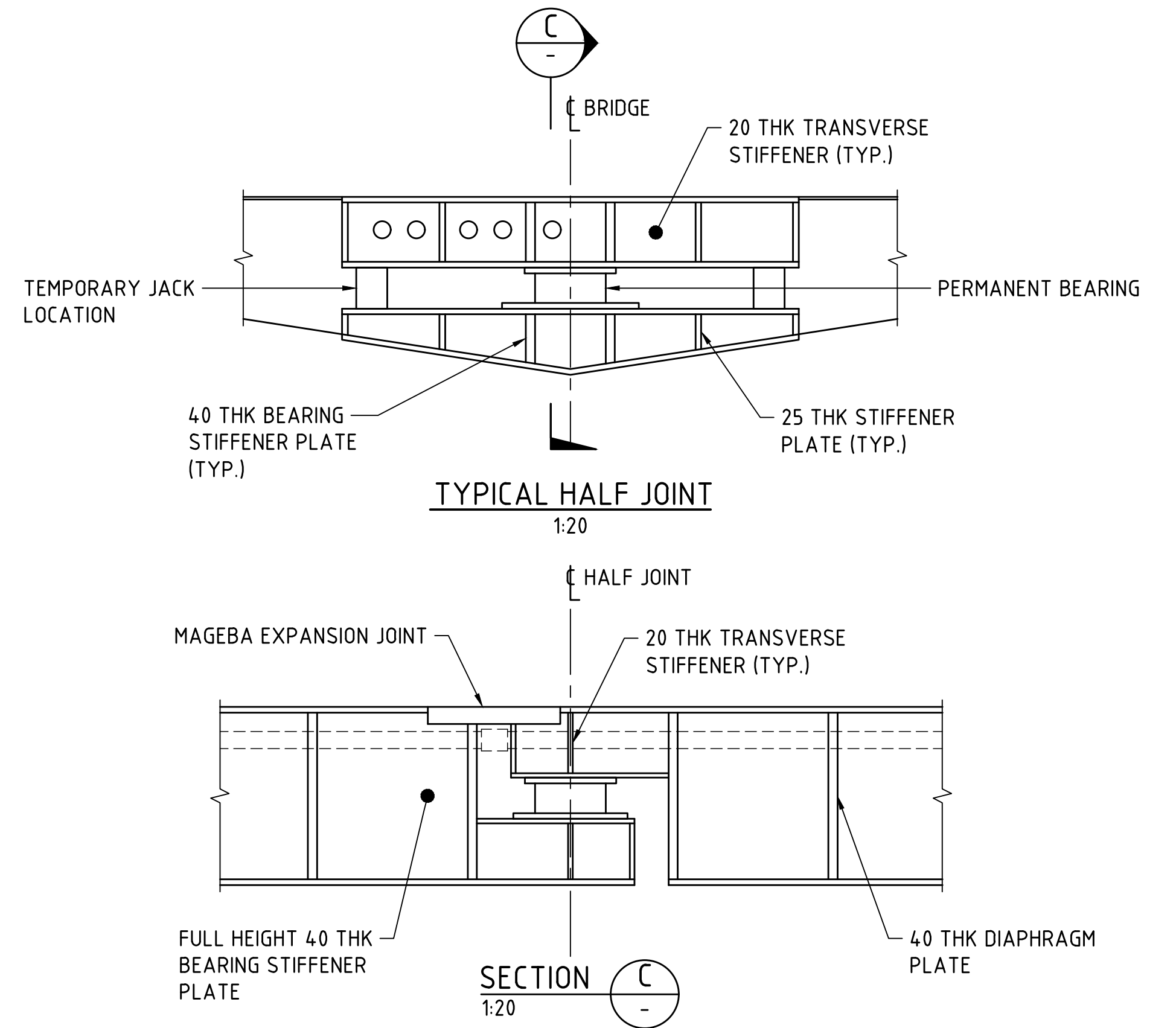
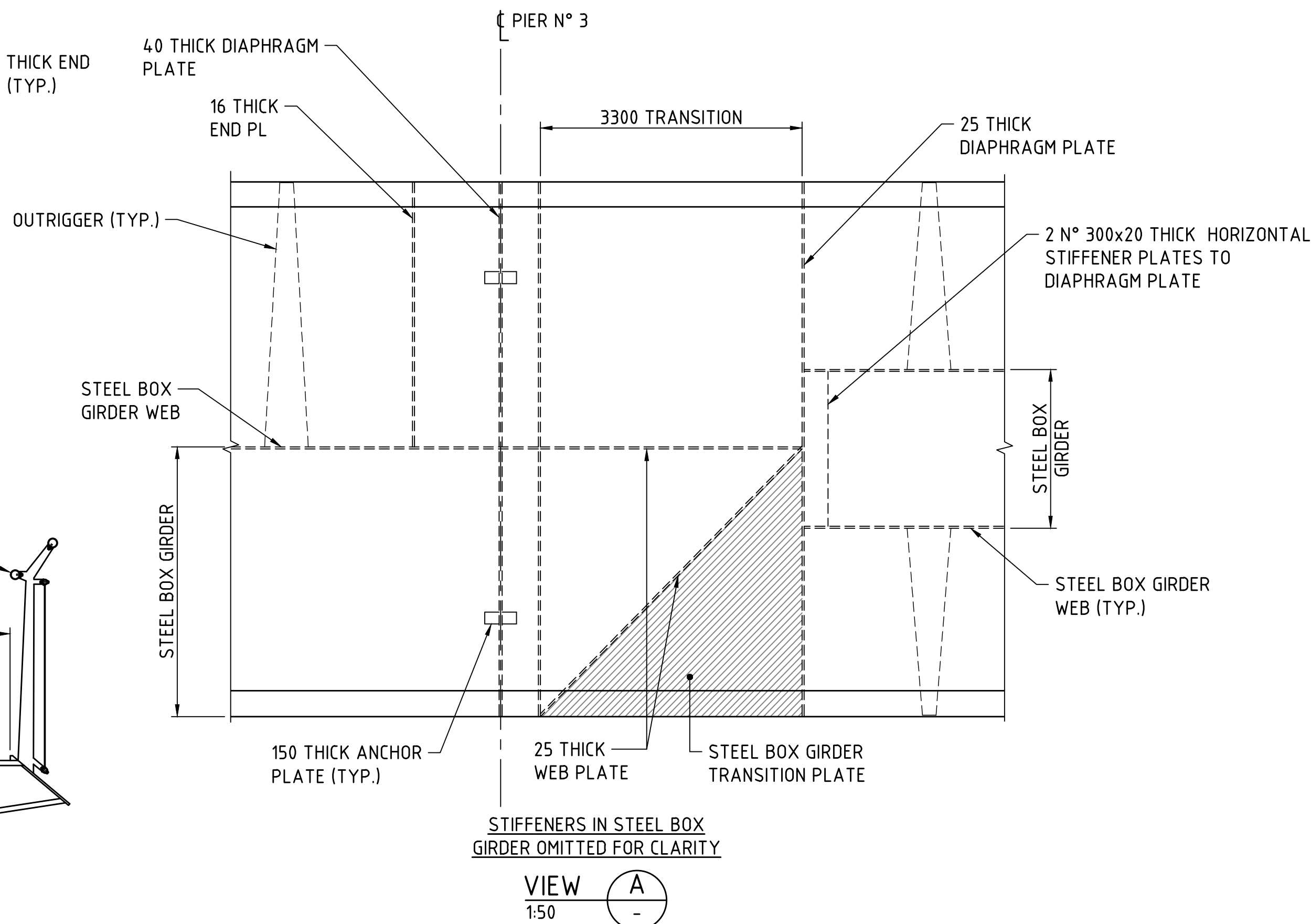
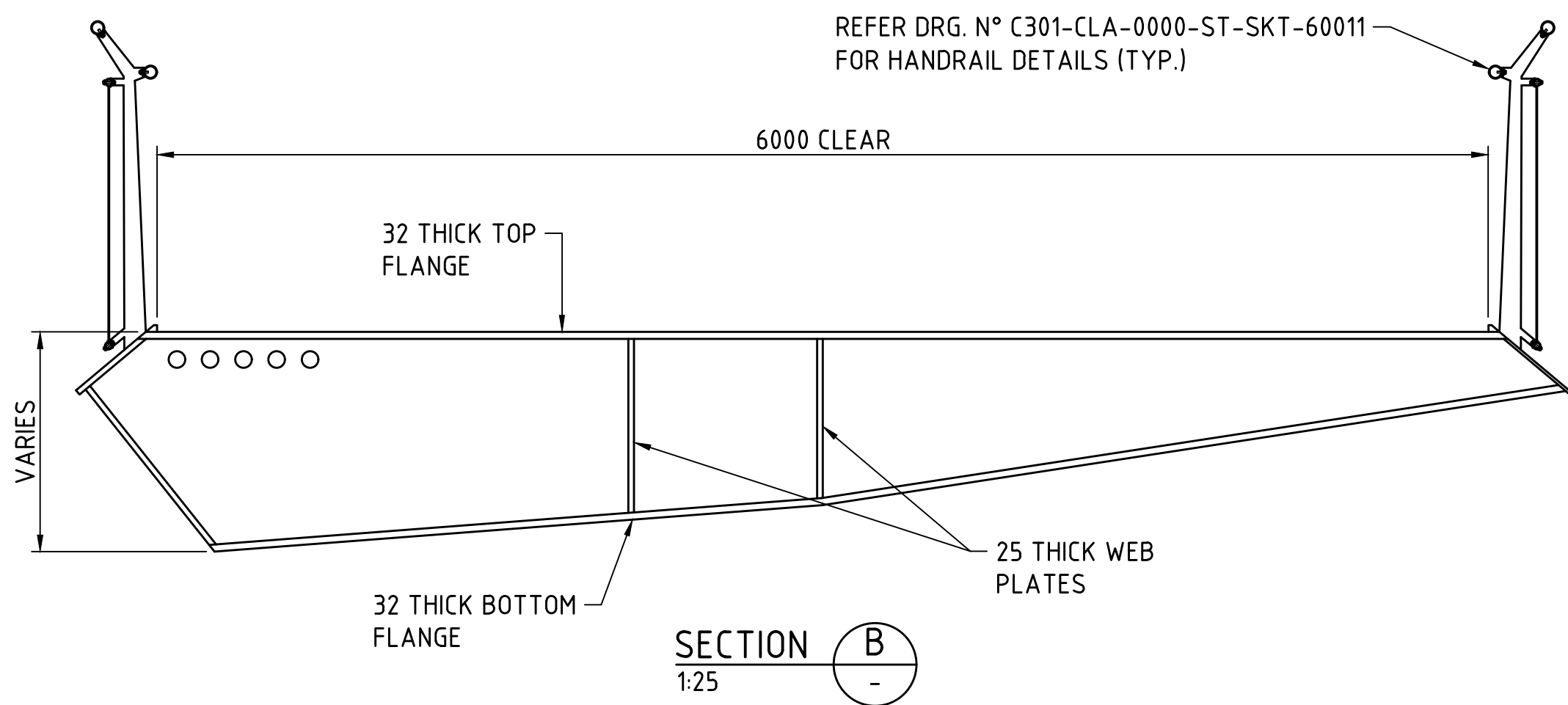
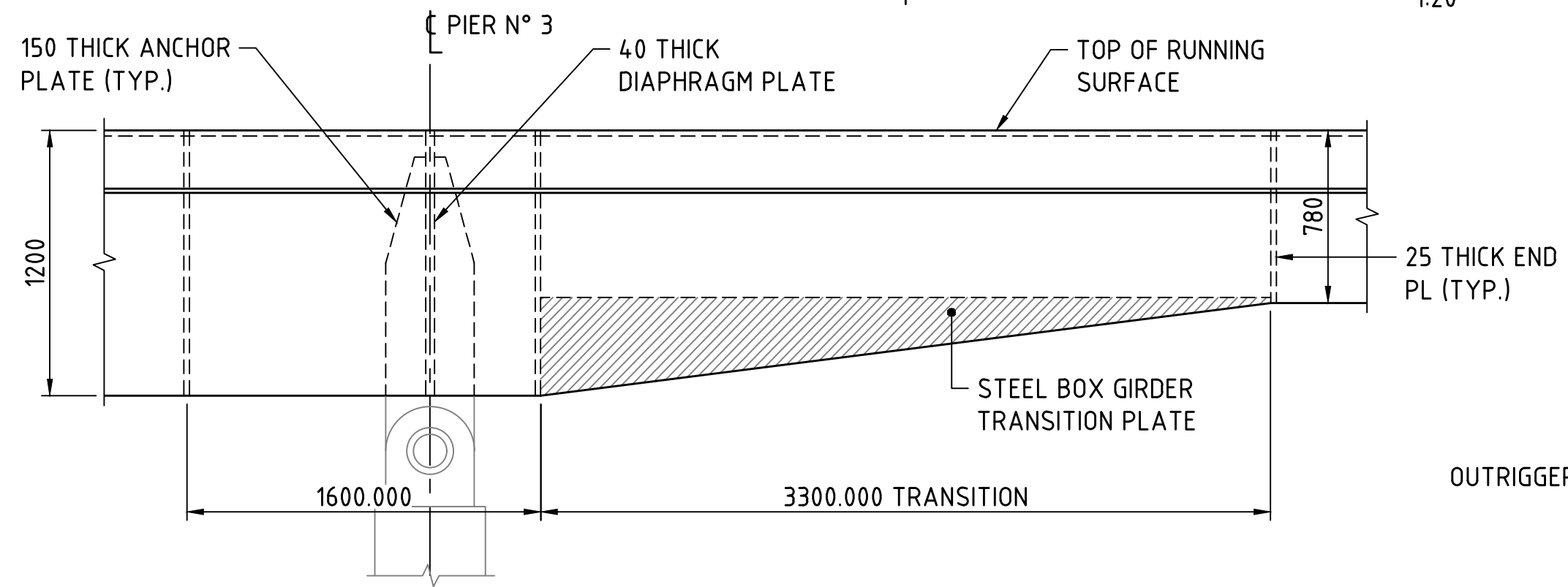
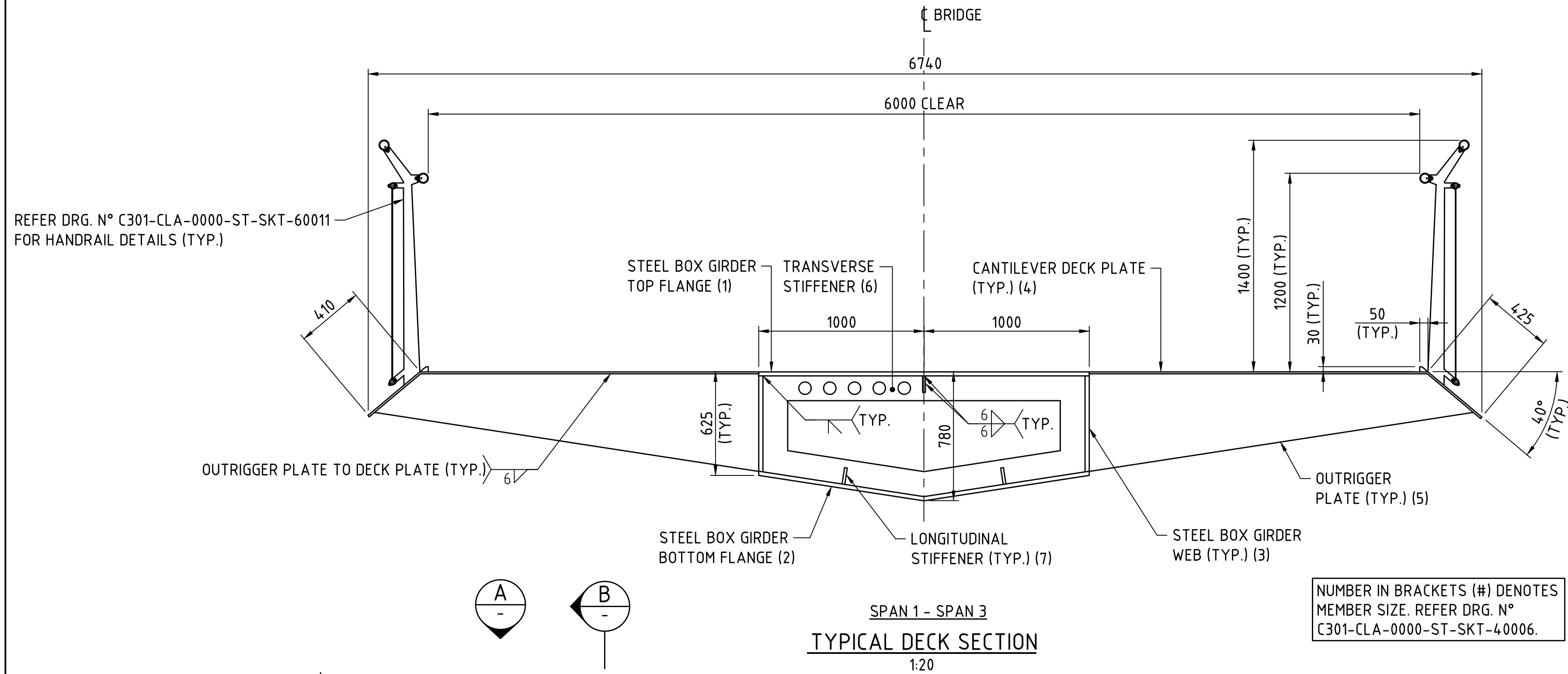


DECK LAYOUT PLAN

Plotted By: Burgess, Brent Plot Date: 03/08/2022 2:20 PM Cad File: C:\pwworking\wsp-aus-pw.bentley.com_wsp-aus-pw-19\d0130591\C301-CLA-2000-ST-SKT-40001.dwg

		METADATA		 Level 5 503 Murray Street Perth WA 6000 Telephone +61 8 9489 9700 Facsimile +61 8 9489 9777 Email: perth@wsp.com		DRAWN		B.BURGESS		04.08.22		 CAUSEWAY Link Alliance		 mainroads WESTERN AUSTRALIA		INFRASTRUCTURE DELIVERY DIRECTORATE		MWLA DRAWING NUMBER									
DESIGNED		C.CHANG				04.08.22		PROJECT TITLE		CAUSEWAY LINK ALLIANCE																	
CHECKED		G.DUPLESSIS				04.08.22		DRAWING TITLE		CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE BRIDGE 9506 - POINT FRASER SPAN DECK LAYOUT PLAN																	
APPROVED		W.SCHWARZ				04.08.22																					
DRAWING PATH										VERIFIED				CONTRACT MANAGER		DATE		CONTRACT MANAGER		DATE		DRAWING STATUS		DRAWING No.		REV	
DATE												PROJECT DIRECTOR		DATE						15%		C301-CLA-2000-ST-SKT-40001		A		A1	

Plot Date: 03/08/2022 2:06 PM C:\pwworking\wsp-aus-pw-bentley.com\wsp-aus-pw-19\013559\301-CLA-2000-ST-SKT-40002.dwg Plotted By: Burgess, Brent



DECK TRANSITION - PERSPECTIVE VIEW

N.T.S.

FOR INFORMATION ONLY

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE:
HEIGHT DATUM:

PCG94
AHD71



Level 5
503 Murray Street
Perth WA 6000
Telephone +61 8 9489
9700 Facsimile +61 8 9489
9777 Email:
perth@wsp.com

DRAWN B.BURGESS 04.08.22
DESIGNED C.CHANG 04.08.22
CHECKED G.DUPLESSIS 04.08.22
APPROVED W.SCHWARZ 04.08.22
DRAWING PATH

VERIFIER



INFRASTRUCTURE DELIVERY DIRECTORATE

LOCAL AUTHORITY	124 - CITY OF PERTH, 125 - TOWN OF VICTORIA PARK	MAIN ROADS RESPONSIBILITY AREA	METROPOLITAN REGION
MRWA DRAWING NUMBER			
PROJECT TITLE	CAUSEWAY LINK ALLIANCE		
DRAWING TITLE	CAUSEWAY PEDESTRIAN AND CYCLIST BRIDGE BRIDGE 9506 - POINT FRASER SPAN DECK SECTIONS AND DECK TRANSITION DETAILS		
DRAWING STATUS	15%	DRAWING No.	C301-CLA-2000-ST-SKT-40002
REV	A		