

BY: SUSERS

DATE PLOTTED: 25/10/2021 7:14:34 PM

CAD File: M:\2018\1001\_1500V191441\_CSC\_Design\_of\_6\_Intersections\Civil\Drafting\Part C - Station Street\191441-CI-DG-6350.dgn

PAVEMENT TYPE 1: DEEP ASPHALT PAVEMENT (PRINCES HIGHWAY INTERSECTION)		
PAVEMENT LAYER	THICKNESS (mm)	MATERIAL
A WEARING COURSE	40	SIZE 14mm TYPE VP ASPHALT WITH PMB (10AE) BINDER
B UPPER STRUCTURAL COURSE	90	SIZE 20mm TYPE SI ASPHALT WITH C320 BINDER
INTERMEDIATE STRUCTURAL COURSE	90	SIZE 20mm TYPE SI ASPHALT WITH C320 BINDER
LOWER STRUCTURAL COURSE	75	SIZE 20mm TYPE SF ASPHALT WITH C320 BINDER
C BASE COURSE (STANDARD QUALITY)	270	SIZE 20mm TYPE CLASS 2 FCR COMPACTED TO MINIMUM 98% DRY DENSITY RATIO WITH MEAN VALUE OF AT LEAST 100% MODIFIED DRY DENSITY RATIO AND WITHIN 1% OF OPTIMUM MOISTURE CONTENT.
D SELECT SUB BASE COURSE	410	SELECT GRANULAR MATERIAL WITH MINIMUM 10% SOAKED CBR COMPACTED TO MINIMUM 98% DRY DENSITY RATIO WITH MEAN VALUE OF MINIMUM 100% STANDARD DRY DENSITY RATIO AND WITHIN 1% OF OPTIMUM MOISTURE CONTENT AND PERCENTAGE SWELL OF LESS THAN 1.5%. THE LAYER SHOULD BE PLACED AS TWO OR MORE SUB LAYERS OF APPROXIMATELY EQUAL THICKNESS IN THE RANGE OF 150mm TO 300mm
TOTAL DEPTH	955	
SUBGRADE		NATURAL SILTY CLAY TESTED TO CONFIRM AN IN-SITU CBR OF MINIMUM 3.0% OR APPROVED FILL COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR NOT LESS THAN 3.0%) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT.
NDT		5.8 x 10 <sup>5</sup> ESAs / 7.18 x 10 <sup>7</sup> HVAGs

PAVEMENT TYPE 3: DEEP ASPHALT PAVEMENT (STATION ST/TIVENDALE RD)		
PAVEMENT LAYER	THICKNESS (mm)	MATERIAL
A WEARING COURSE	40	SIZE 14mm TYPE VP ASPHALT WITH PMB (10AE) BINDER
B UPPER STRUCTURAL COURSE	90	SIZE 20mm TYPE SI ASPHALT WITH C320 BINDER
INTERMEDIATE STRUCTURAL COURSE	90	SIZE 20mm TYPE SI ASPHALT WITH C320 BINDER
LOWER STRUCTURAL COURSE	75	SIZE 20mm TYPE SF ASPHALT WITH C320 BINDER
C BASE COURSE (STANDARD QUALITY)	220	SIZE 20mm TYPE CLASS 2 FCR COMPACTED TO MINIMUM 98% DRY DENSITY RATIO WITH MEAN VALUE OF AT LEAST 100% MODIFIED DRY DENSITY RATIO AND WITHIN 1% OF OPTIMUM MOISTURE CONTENT.
D SELECT SUB BASE COURSE	150	SELECT GRANULAR MATERIAL WITH MINIMUM 10% SOAKED CBR COMPACTED TO MINIMUM 98% DRY DENSITY RATIO WITH MEAN VALUE OF MINIMUM 100% STANDARD DRY DENSITY RATIO AND WITHIN 1% OF OPTIMUM MOISTURE CONTENT AND PERCENTAGE SWELL OF LESS THAN 1.5%. THE LAYER SHOULD BE PLACED AS TWO OR MORE SUB LAYERS OF APPROXIMATELY EQUAL THICKNESS IN THE RANGE OF 150mm TO 300mm
TOTAL DEPTH	665	
SUBGRADE		NATURAL SILTY CLAY TESTED TO CONFIRM AN IN-SITU CBR OF MINIMUM 3.0% OR APPROVED FILL COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR NOT LESS THAN 3.0%) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT.
NDT		2.3 x 10 <sup>5</sup> ESAs / 2.85 x 10 <sup>7</sup> HVAGs

PAVEMENT TYPE 4: PAVEMENT RESURFACING DETAIL			
LEVEL DIFFERENCE:	LEVEL DIFFERENCE:	THICKNESS (mm)	MATERIAL
LESS THAN 40mm	A WEARING COURSE	40	SIZE 14mm TYPE VP ASPHALT WITH PMB (AE10) BINDER (PLAIN AS REQUIRED TO ALLOW FOR A CONSTANT 40mm WEARING COURSE)
40mm TO 115mm	A WEARING COURSE B REGULATION	40 20-75	SIZE 14 TYPE VP ASPHALT WITH PME (10AE) BINDER (REFER REGULATION TABLE BELOW)
115mm TO 190mm	A WEARING COURSE B STRUCTURAL COURSE C REGULATION	40 75 20-75	SIZE 14 TYPE VP ASPHALT WITH PME (AE10) BINDER SIZE 20 TYPE SI ASPHALT WITH C320 BINDER (REFER ASPHALT REGULATION TABLE BELOW)
EXISTING PAVEMENT TREATMENT			MILL OUT UPPER 40mm / WEARING COURSE OF EXISTING PAVEMENT AND BROOM CLEAN. CRACK SEAL ANY VISIBLE CRACKS AND APPLY A TACK COAT BEFORE PLACEMENT OF ANY REGULATION AND WEARING COURSE ASPHALT LAYERS.

PAVEMENT TYPE 5: CONCRETE (SHARED USER PATH)		
PAVEMENT LAYER	THICKNESS (mm)	MATERIAL
A BASE	125	CONCRETE GRADE VR330/32 (25MPa AT 28 DAYS) WITH SL82 STEEL MESH REINFORCEMENT
B SUBBASE	100	SIZE 20mm CLASS 3 CRUSHED ROCK/CONCRETE
TOTAL DEPTH	225	

PAVEMENT TYPE 7: CONCRETE (TRAFFIC ISLANDS/MEDIAN FILLS)		
PAVEMENT LAYER	THICKNESS (mm)	MATERIAL
A BASE	150	CONCRETE GRADE VR330/32 (32MPa AT 28 DAYS) WITH SL72 STEEL MESH REINFORCEMENT
B SUBBASE	150	SIZE 20mm CLASS 3 CRUSHED ROCK/CONCRETE
TOTAL DEPTH	300	

PAVEMENT TYPE 6: CONCRETE (DRIVEWAYS)		
PAVEMENT LAYER	THICKNESS (mm)	MATERIAL
A BASE	150	CONCRETE GRADE VR330/32 (32MPa AT 28 DAYS) WITH SL82 STEEL MESH REINFORCEMENT
B SUBBASE	150	SIZE 20mm CLASS 3 CRUSHED ROCK/CONCRETE
TOTAL DEPTH	300	

PAVEMENT TYPE 8: BUS STOP CONCRETE HARDSTAND		
PAVEMENT LAYER	THICKNESS (mm)	MATERIAL
A BASE	200	CONCRETE GRADE VR330/32 (32MPa AT 28 DAYS) WITH SL92 STEEL MESH REINFORCEMENT
B SUBBASE	150	SIZE 20MM 5% CTCR (500MPa)
TOTAL DEPTH	350	

PAVEMENT TYPE 9: DEEP ASPHALT PAVEMENT DESIGN AT UTILITY CROSSINGS		
PAVEMENT LAYER	THICKNESS (mm)	MATERIAL
A WEARING COURSE	40	SIZE 14mm TYPE VP ASPHALT WITH PMB A10E BINDER
B UPPER STRUCTURAL COURSE	90	SIZE 20mm TYPE SI ASPHALT WITH C320 BINDER
INTERMEDIATE STRUCTURAL COURSE	90	SIZE 20mm TYPE SI ASPHALT WITH C320 BINDER
LOWER STRUCTURAL COURSE	75	SIZE 20mm TYPE SF ASPHALT WITH C320 BINDER
C BASE COURSE (STANDARD QUALITY)	220	SIZE 20mm TYPE CLASS 2 CR COMPACTED TO MINIMUM 98% MODIFIED DRY DENSITY RATIO WITH MEAN VALUE OF AT LEAST 100% MODIFIED DRY DENSITY RATIO AND WITHIN 1% OF MODIFIED OPTIMUM MOISTURE CONTENT.
TOTAL DEPTH	515	
APPROPRIATED PREPARED EXISTING SERVICE TRENCH BACKFILL		
NDT		2.3 x 10 <sup>5</sup> ESAs / 2.85 x 10 <sup>7</sup> HVAGs

**PAVEMENT NOTES:**

1. PAVEMENT TYPE LIMIT PLANS AND PAVEMENT DETAILS REPRESENT INFORMATION PROVIDED IN DESIGN.
2. SIZE 14mm TYPE VP ASPHALT WEARING COURSE IS TO BE ADOPTED AT THE SIGNALISED INTERSECTION LOCATIONS, COMMENCING AT THE START OF LANE TAPER, EXTENDING THROUGH THE INTERSECTION AND THE FIRST 30m OF THE DEPARTURE LANES.
3. ALL SUBSURFACE DRAINAGE BENEATH TRAFFICABLE AREAS INCLUDING PAVEMENT AND KERB SHALL HAVE A NO FINES CONCRETE BACKFILL FILTER MEDIUM. NO FILTER SOCK SHALL BE INSTALLED ON DRAINS BACKFILLED WITH NO FINES CONCRETE. OTHER SUBSURFACE DRAINAGE
4. THE FINAL WEARING COURSE JOINT TO BE WITHIN 300MM OF THE TRAFFIC LANE OR 300mm OF CENTRE OF THE TRAFFIC LANE.
5. FOR REHABILITATION MILL EXISTING PAVEMENT TO PROVIDE CONSISTENT LAYER DEPTH (C LAYER) SPECIFIED FOR EACH PAVEMENT TYPE WHERE REQUIRED. PROFILE MILLED AREA TO PROVIDE CORRECT CROSS FALL/SUPERELEVATION.
6. TYPE A MATERIAL SHOULD HAVE A MINIMUM ASSIGNED CBR OF 6% AND PERCENTAGE SWELL LESS THAN 2.5%. TYPE B MATERIAL SHOULD HAVE A MINIMUM ASSIGNED CBR OF 2% AND PERCENTAGE SWELL LESS THAN 2.5%. TYPE C FILL MATERIAL MAY NOT MEET THE REQUIREMENTS OF TYPE A OR TYPE B MATERIAL.
7. THE PAVEMENT AT UTILITY CROSSINGS SHALL BE REDUCED TO 515mm AS PER PAVEMENT TYPE 9, WHERE REQUIRED TO PROVIDE SUFFICIENT CLEARANCE

ASPHALT REGULATION TABLE			
SIZE (mm)	THICKNESS RANGE (mm)	RECOMMENDED THICKNESS (mm)	ASPHALT TYPE
7	15-25	20	REGULATION GAP GRADED (RGG)
10	25-35	30	H
14	35-50	40	H OR SI
20	50-100	75	SI

Rev	Date	Description	Drawn	Appr.
5	25.10.21	ISSUE FOR TENDER	RY	PC
4	07.09.21	DETAIL DESIGN ISSUE	KP	PC
3	28.08.21	ISSUE FOR TENDER	KP	PC
2	16.08.21	ISSUE FOR TENDER	KP	PC
1	23.02.21	PRELIMINARY ISSUE	KP	PC

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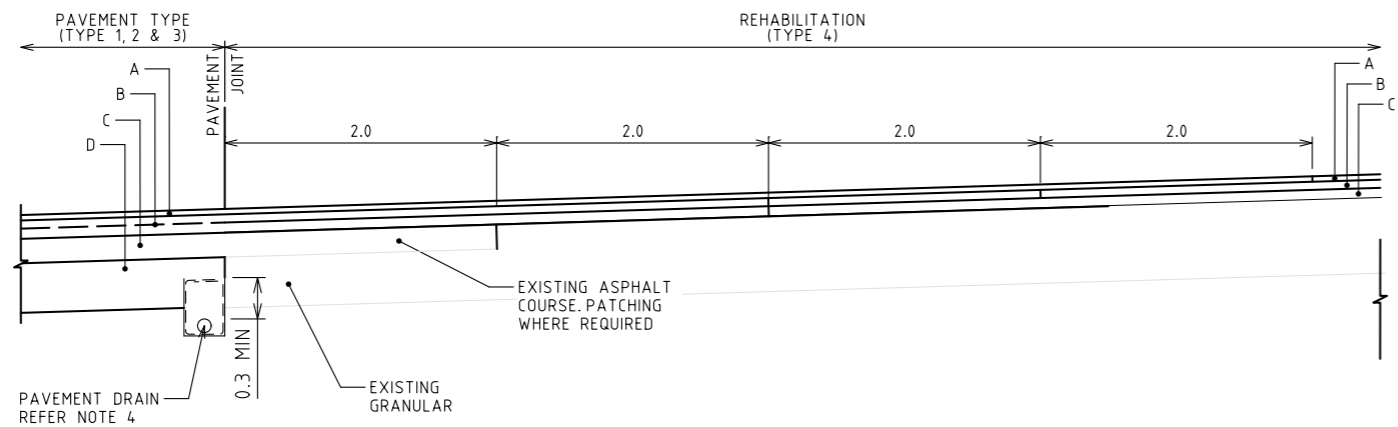
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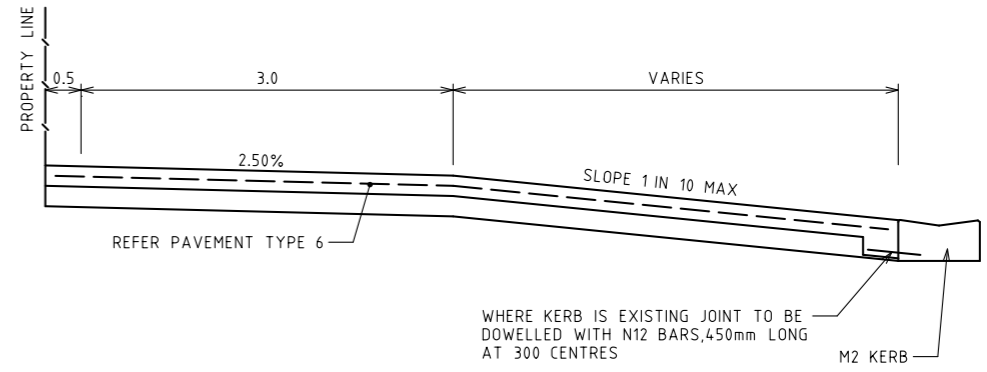
Drawn	K.PELLOSIS	Client	CARDINIA SHIRE COUNCIL
Designed	C.MENDOZA	Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION
Checked	P.CHATTERLEY	Title	PAVEMENT PROFILES
Authorised	P.CHATTERLEY	Status	<b>FOR TENDER</b> NOT TO BE USED FOR CONSTRUCTION PURPOSES
		Date	23.02.21
		Scale	NTS
		Size	A3
		Drawing Number	V191441-CI-DG-6350
		Revision	5

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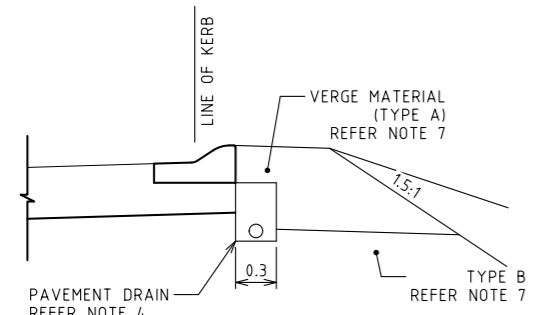
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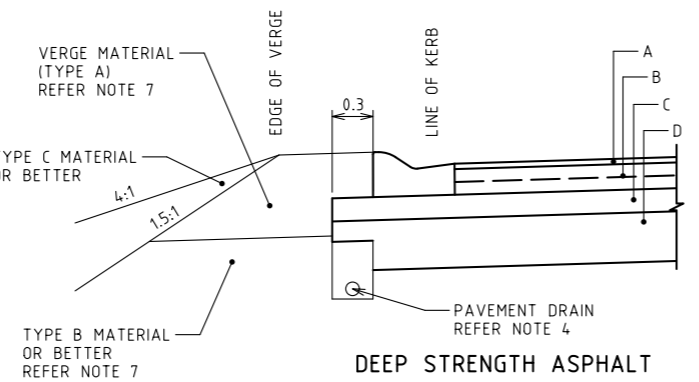
TRAVERSE JOINT - DEEP STRENGTH ASPHALT TO ADJACENT REHABILITATION



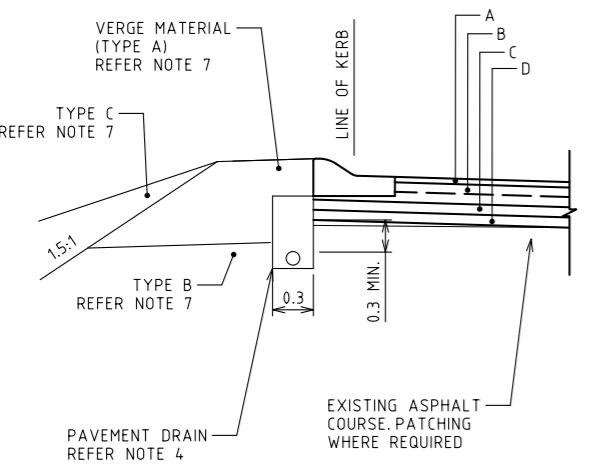
CONCRETE DRIVEWAY



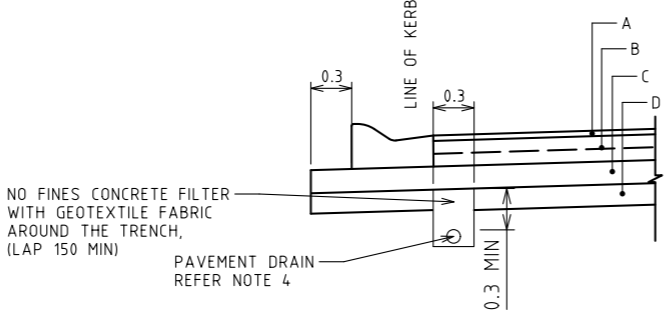
PLACEMENT OF KERB ON THE EXISTING PAVEMENT



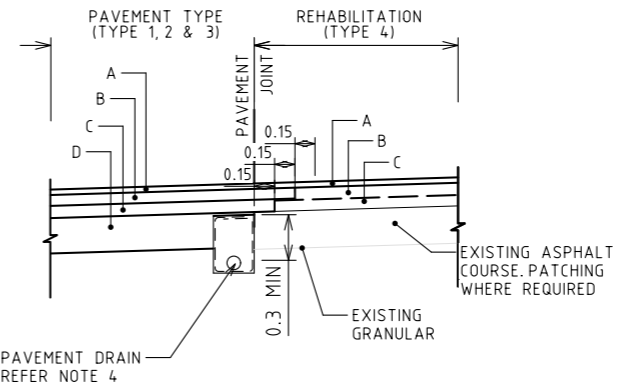
DEEP STRENGTH ASPHALT



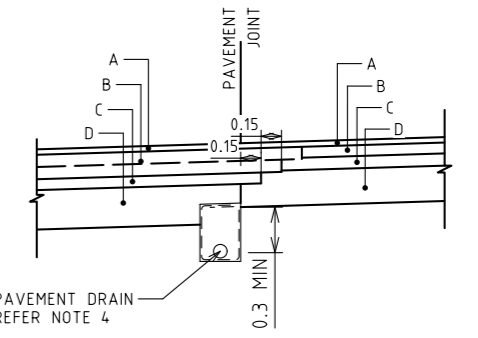
PLACEMENT OF REHABILITATION AND KERB



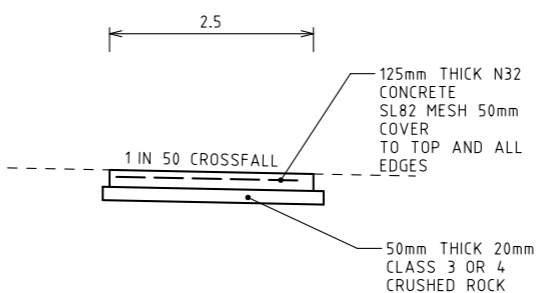
SUBSOIL DRAIN - OPTIONAL LOCATION



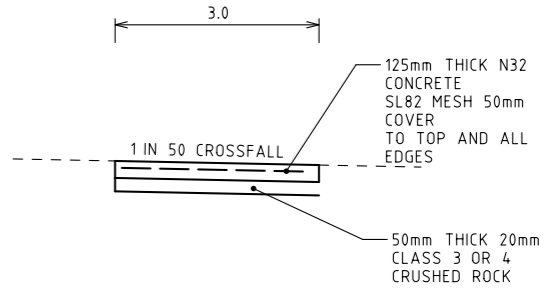
LONGITUDINAL JOINT - DEEP STRENGTH ASPHALT TO REHABILITATION



LONGITUDINAL JOINT - DEEP STRENGTH ASPHALT



CONCRETE SHARED USER PATH



CONCRETE CYCLE PATH

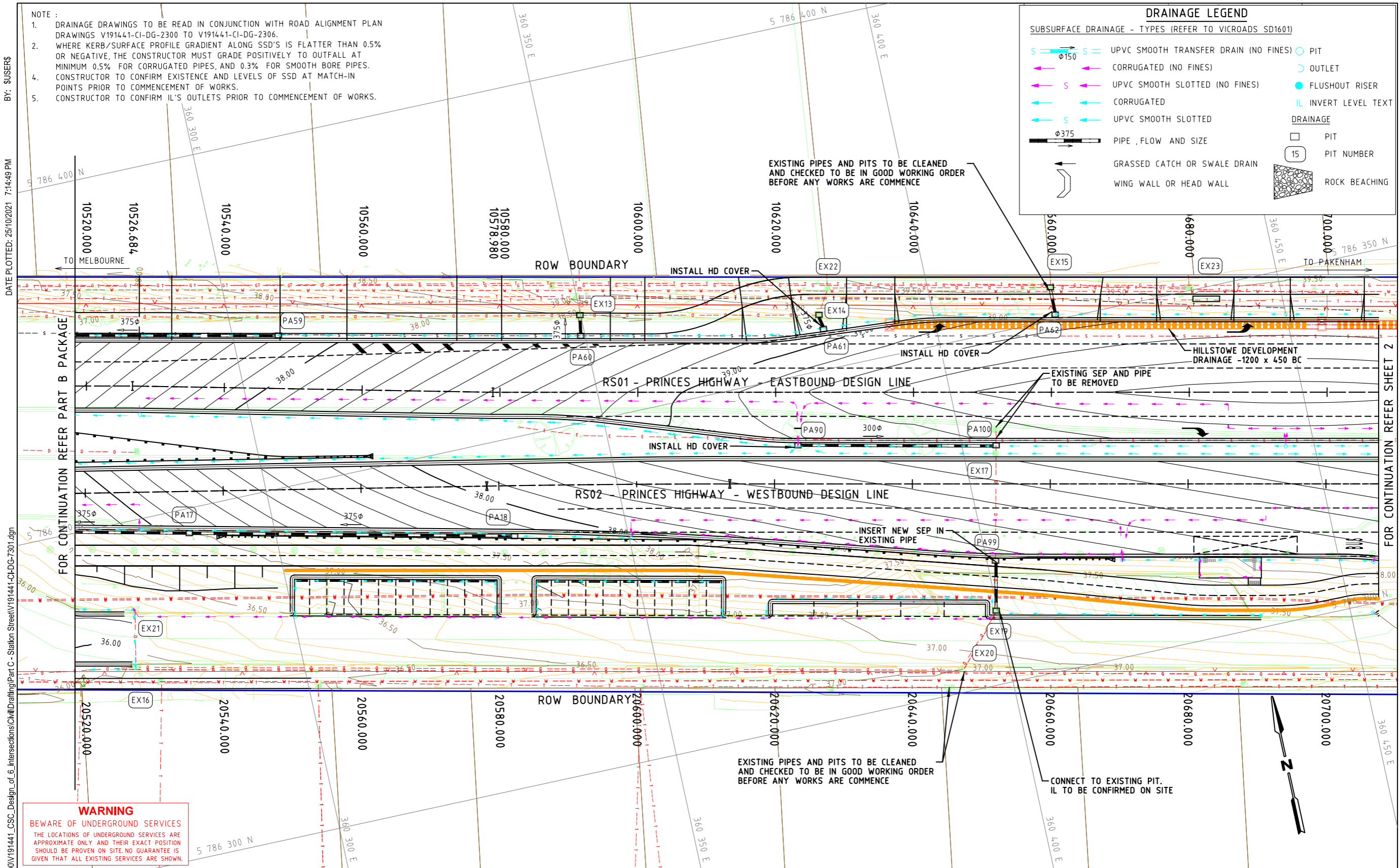
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4	25.10.21	ISSUE FOR TENDER	RY	PC
3	07.09.21	DETAIL DESIGN ISSUE	KP	PC
2	16.08.21	ISSUE FOR TENDER	SB	PC
1	23.02.21	PRELIMINARY ISSUE	KP	PC

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Drawn K.PELLOSIS	Client CARDINIA SHIRE COUNCIL	Status <b>FOR TENDER</b>
Designed S.BECKHAM	Project CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION	NOT TO BE USED FOR CONSTRUCTION PURPOSES
Checked P.CHATTERLEY	Title PAVEMENT JOINT DETAILS	Date 23.02.21
Authorised P.CHATTERLEY	Scale NTS	Size A3
	Drawing Number V191441-CI-DG-6351	Revision 4



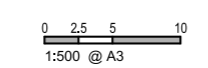
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4	25.10.21	ISSUE FOR TENDER	RY	PC
3	07.09.21	DETAIL DESIGN ISSUE	KP	PC
2	16.08.21	ISSUE FOR TENDER	KP	PC
1	23.02.21	PRELIMINARY ISSUE	KP	PC

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Designed: J.PANUNCIALMAN  
Checked: P.CHATTERLEY  
Authorised: P.CHATTERLEY

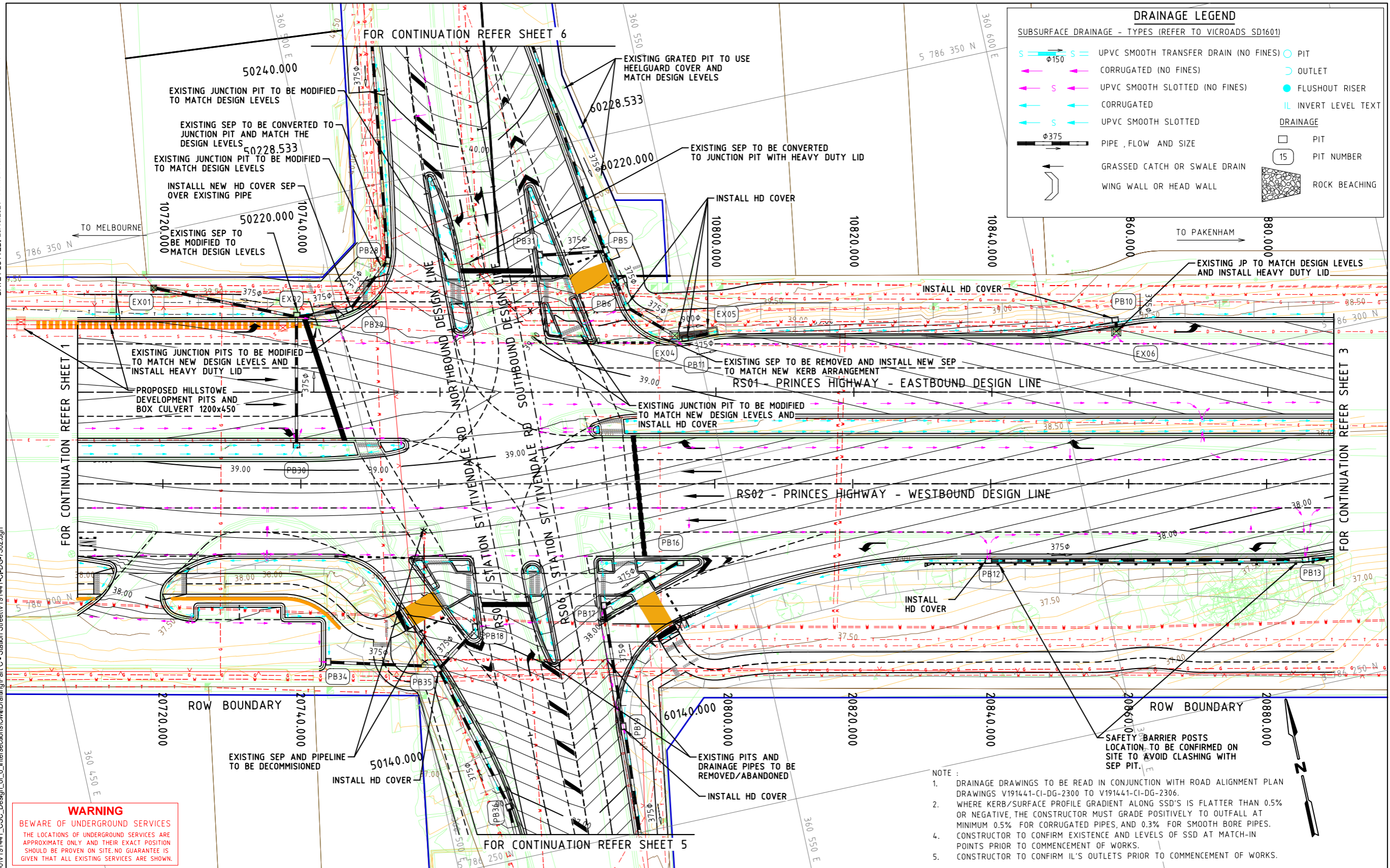
Client: CARDINIA SHIRE COUNCIL  
Project: CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION  
Title: DRAINAGE PLAN SHEET 1

Status: **FOR TENDER**  
NOT TO BE USED FOR CONSTRUCTION PURPOSES  
Date: 23.02.21 Scale: 1:500 Size: A3  
Drawing Number: V191441-CI-DG-7301 Revision: 4



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4	25.10.21	ISSUE FOR TENDER	RY	PC
3	07.09.21	DETAIL DESIGN ISSUE	KP	PC
2	16.08.21	ISSUE FOR TENDER	KP	PC
1	23.02.21	PRELIMINARY ISSUE	KP	PC

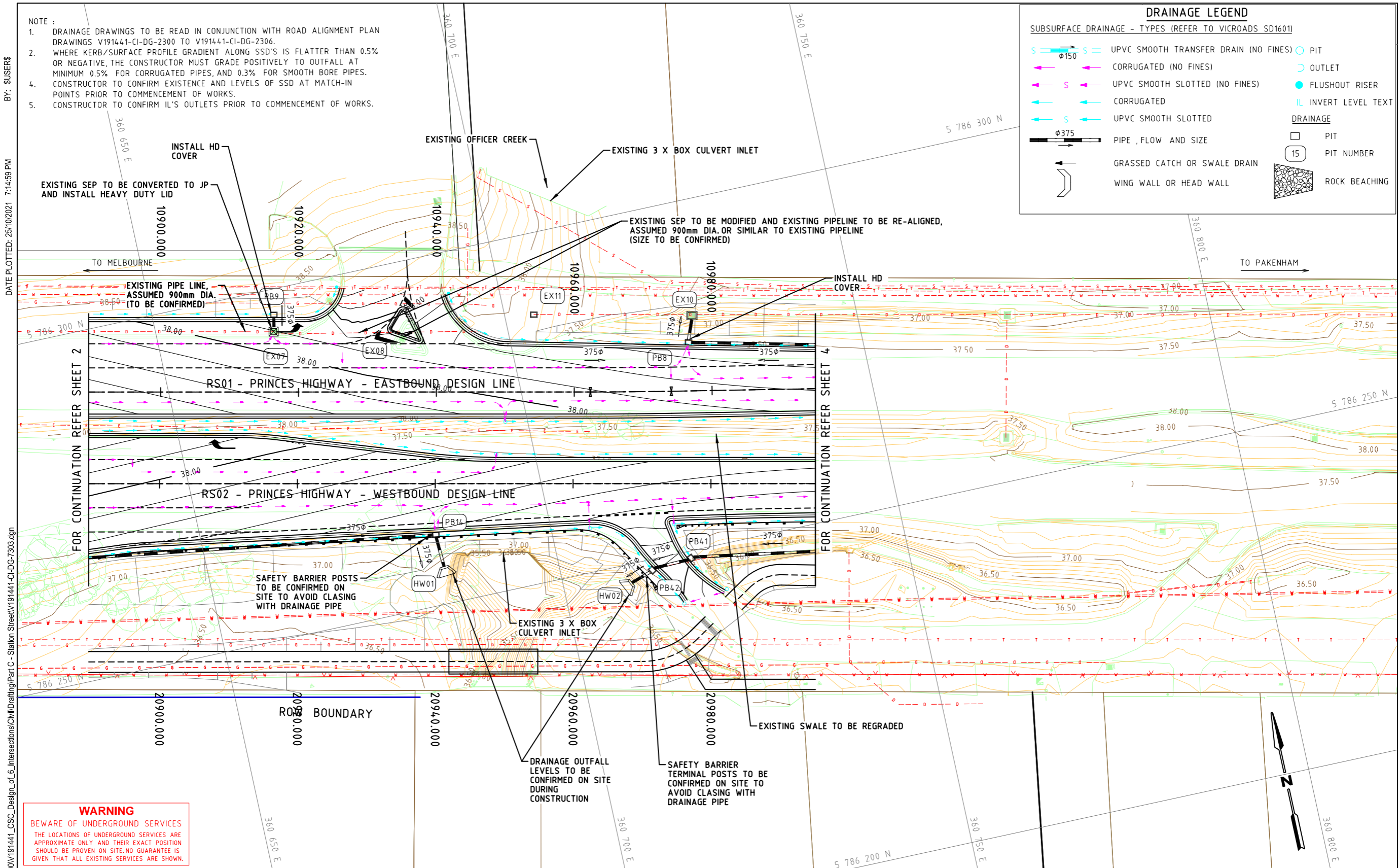
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0 2.5 5 10  
1:500 @ A3  
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Drawn K.PELLOSIS	Client CARDINIA SHIRE COUNCIL	Status <b>FOR TENDER</b>
Designed J.PANUNCIALMAN	Project PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION	NOT TO BE USED FOR CONSTRUCTION PURPOSES
Checked P.CHATTERLEY	Title DRAINAGE PLAN SHEET 2	Date 23.02.21
Authorised P.CHATTERLEY		Scale 1:500
		Size A3
		Revision 4
		Drawing Number V191441-CI-DG-7302





**DRAINAGE LEGEND**

SUBSURFACE DRAINAGE - TYPES (REFER TO VICROADS SD1601)

- UPVC SMOOTH TRANSFER DRAIN (NO FINES)  $\phi 150$
- CORRUGATED (NO FINES)
- UPVC SMOOTH SLOTTED (NO FINES)
- CORRUGATED
- UPVC SMOOTH SLOTTED  $\phi 375$
- PIPE, FLOW AND SIZE
- GRASSED CATCH OR SWALE DRAIN
- WING WALL OR HEAD WALL
- PIT
- OUTLET
- FLUSHOUT RISER
- INVERT LEVEL TEXT
- PIT
- PIT NUMBER
- ROCK BEACHING

- NOTE :
- DRAINAGE DRAWINGS TO BE READ IN CONJUNCTION WITH ROAD ALIGNMENT PLAN DRAWINGS V191441-CI-DG-2300 TO V191441-CI-DG-2306.
  - WHERE KERB/SURFACE PROFILE GRADIENT ALONG SSD'S IS FLATTER THAN 0.5% OR NEGATIVE, THE CONSTRUCTOR MUST GRADE POSITIVELY TO OUTFALL AT MINIMUM 0.5% FOR CORRUGATED PIPES, AND 0.3% FOR SMOOTH BORE PIPES.
  - CONSTRUCTOR TO CONFIRM EXISTENCE AND LEVELS OF SSD AT MATCH-IN POINTS PRIOR TO COMMENCEMENT OF WORKS.
  - CONSTRUCTOR TO CONFIRM IL'S OUTFALLS PRIOR TO COMMENCEMENT OF WORKS.

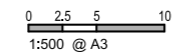
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4	25.10.21	ISSUE FOR TENDER	RY	PC
3	07.09.21	DETAIL DESIGN ISSUE	KP	PC
2	16.08.21	ISSUE FOR TENDER	KP	PC
1	23.02.21	PRELIMINARY ISSUE	KP	PC

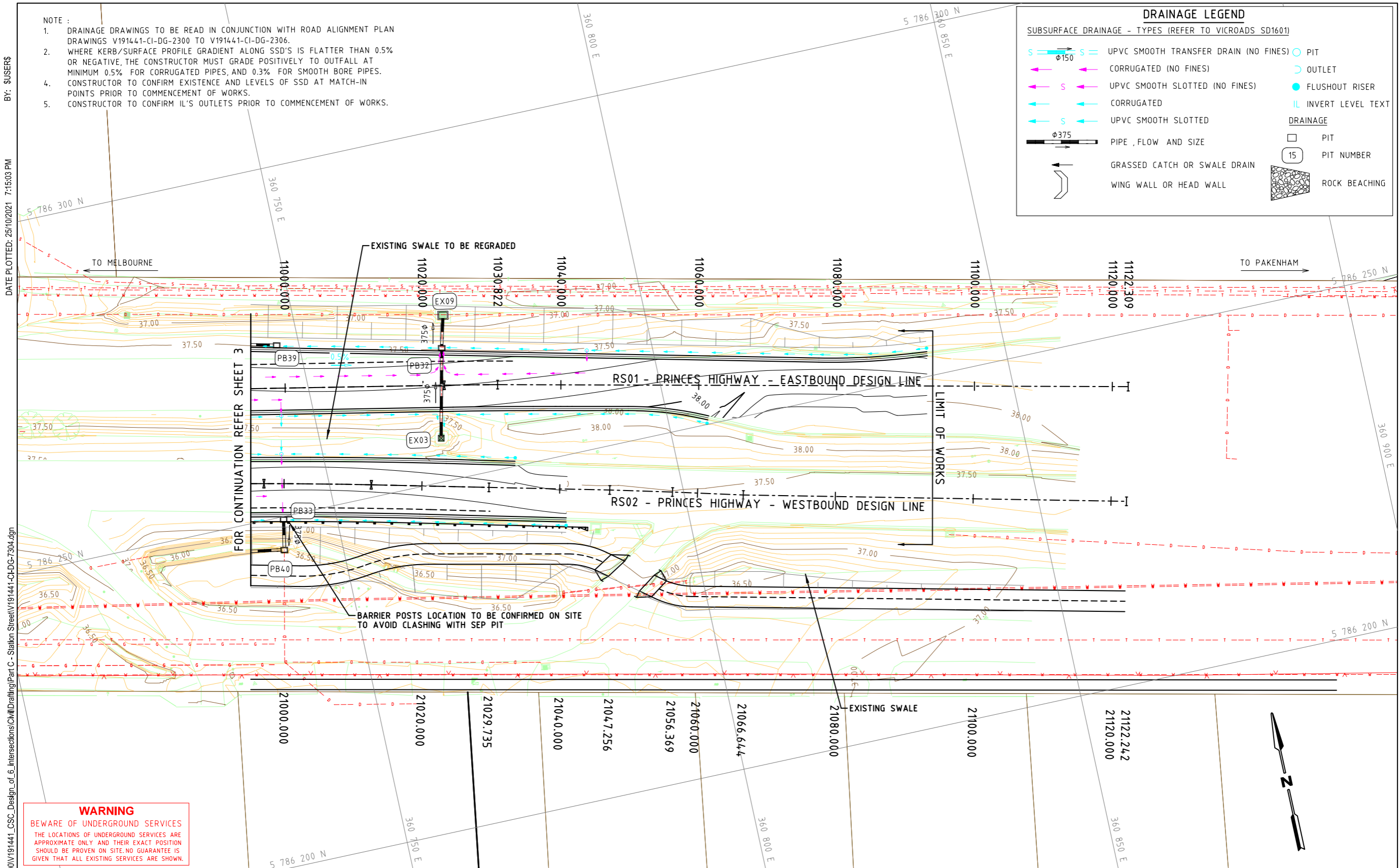
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Designed	J.PANUNCIALMAN	Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION
Checked	P.CHATTERLEY	Title	DRAINAGE PLAN SHEET 3
Authorised	P.CHATTERLEY	Status	<b>FOR TENDER</b> NOT TO BE USED FOR CONSTRUCTION PURPOSES
		Date	23.02.21
		Scale	1:500
		Size	A3
		Drawing Number	V191441-CI-DG-7303
		Revision	4



NOTE :

1. DRAINAGE DRAWINGS TO BE READ IN CONJUNCTION WITH ROAD ALIGNMENT PLAN DRAWINGS V191441-CI-DG-2300 TO V191441-CI-DG-2306.
2. WHERE KERB/SURFACE PROFILE GRADIENT ALONG SSD'S IS FLATTER THAN 0.5% OR NEGATIVE, THE CONSTRUCTOR MUST GRADE POSITIVELY TO OUTFALL AT MINIMUM 0.5% FOR CORRUGATED PIPES, AND 0.3% FOR SMOOTH BORE PIPES.
3. CONSTRUCTOR TO CONFIRM EXISTENCE AND LEVELS OF SSD AT MATCH-IN POINTS PRIOR TO COMMENCEMENT OF WORKS.
4. CONSTRUCTOR TO CONFIRM IL'S OUTLETS PRIOR TO COMMENCEMENT OF WORKS.

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### DRAINAGE LEGEND

SUBSURFACE DRAINAGE - TYPES (REFER TO VICROADS SD1601)

- UPVC SMOOTH TRANSFER DRAIN (NO FINES)  $\phi 150$
- CORRUGATED (NO FINES)
- UPVC SMOOTH SLOTTED (NO FINES)
- CORRUGATED
- UPVC SMOOTH SLOTTED  $\phi 375$
- PIPE, FLOW AND SIZE
- GRASSED CATCH OR SWALE DRAIN
- WING WALL OR HEAD WALL
- PIT
- OUTLET
- FLUSHOUT RISER
- INVERT LEVEL TEXT
- PIT
- PIT NUMBER
- ROCK BEACHING

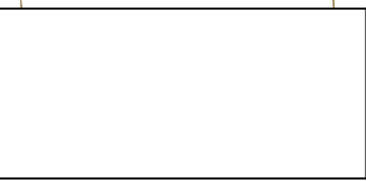
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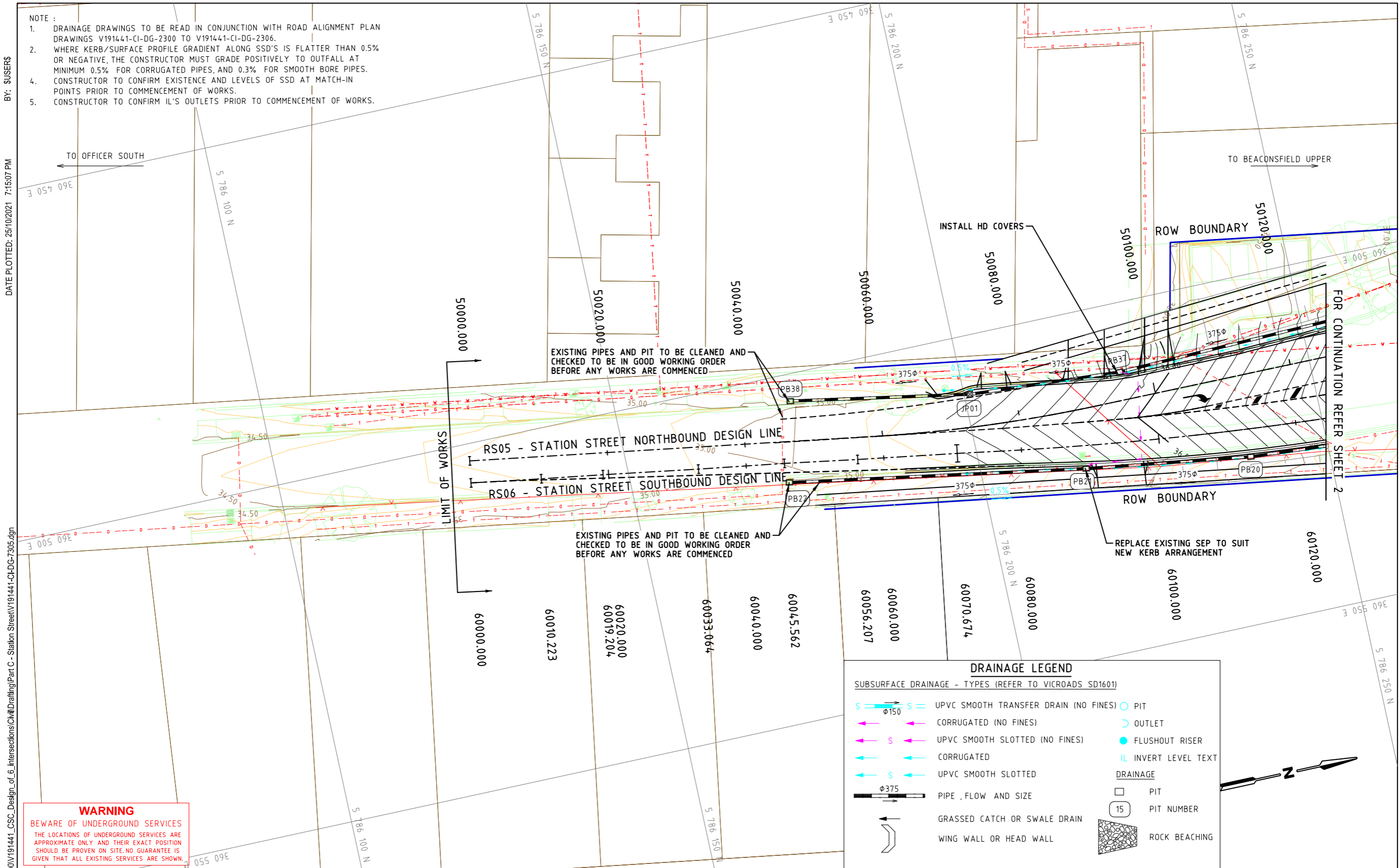


Drawn	K.PELLOSIS
Designed	J.PANUNCIALMAN
Checked	P.CHATTERLEY
Authorised	P.CHATTERLEY

Client	CARDINIA SHIRE COUNCIL
Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION
Title	DRAINAGE PLAN SHEET 4

Status	<b>FOR TENDER</b>		
	NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	23.02.21	Scale	1:500
Sheet		Size	A3
Drawing Number	V191441-CI-DG-7304	Revision	4

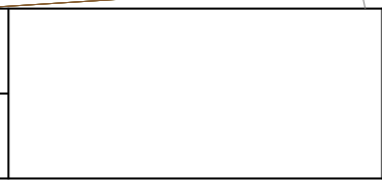




Rev	Date	Description	Drawn	Appr.
4	25.10.21	ISSUE FOR TENDER	RY	PC
3	07.09.21	DETAIL DESIGN ISSUE	KP	PC
2	16.08.21	ISSUE FOR TENDER	KP	PC
1	23.02.21	PRELIMINARY ISSUE	KP	PC

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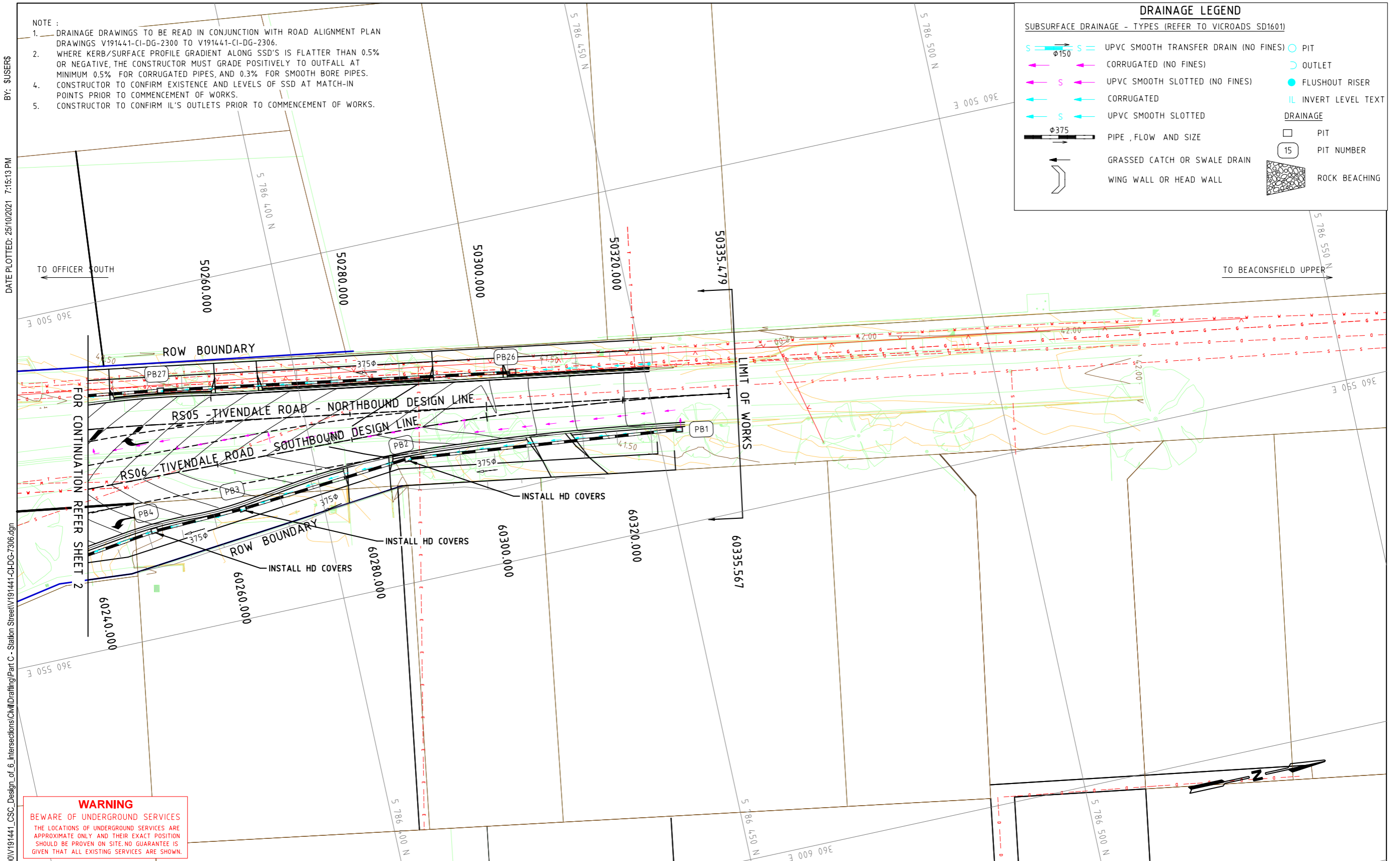
**WARNING**  
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Drawn: K.PELLOSIS  
Designed: J.PANUNCIALMAN  
Checked: P.CHATTERLEY  
Authorised: P.CHATTERLEY

Client: CARDINIA SHIRE COUNCIL  
Project: CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION  
Title: DRAINAGE PLAN SHEET 5

Status: **FOR TENDER**  
NOT TO BE USED FOR CONSTRUCTION PURPOSES  
Date: 23.02.21  
Scale: 1:500  
Sheet: A3  
Drawing Number: V191441-CI-DG-7305  
Revision: 4



### DRAINAGE LEGEND

**SUBSURFACE DRAINAGE - TYPES (REFER TO VICROADS SD1601)**

	UPVC SMOOTH TRANSFER DRAIN (NO FINES)		PIT
	CORRUGATED (NO FINES)		OUTLET
	UPVC SMOOTH SLOTTED (NO FINES)		FLUSHOUT RISER
	CORRUGATED		IL INVERT LEVEL TEXT
	UPVC SMOOTH SLOTTED		PIT
	PIPE, FLOW AND SIZE		PIT NUMBER
	GRASSED CATCH OR SWALE DRAIN		PIT NUMBER
	WING WALL OR HEAD WALL		ROCK BEACHING

NOTE :

- DRAINAGE DRAWINGS TO BE READ IN CONJUNCTION WITH ROAD ALIGNMENT PLAN DRAWINGS V191441-CI-DG-2300 TO V191441-CI-DG-2306.
- WHERE KERB/SURFACE PROFILE GRADIENT ALONG SSD'S IS FLATTER THAN 0.5% OR NEGATIVE, THE CONSTRUCTOR MUST GRADE POSITIVELY TO OUTFALL AT MINIMUM 0.5% FOR CORRUGATED PIPES, AND 0.3% FOR SMOOTH BORE PIPES.
- CONSTRUCTOR TO CONFIRM EXISTENCE AND LEVELS OF SSD AT MATCH-IN POINTS PRIOR TO COMMENCEMENT OF WORKS.
- CONSTRUCTOR TO CONFIRM IL'S OUTLETS PRIOR TO COMMENCEMENT OF WORKS.

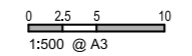
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CAD File: M:\2019\1001\_1500V191441\_CSC\_Design\_of\_6\_Intersections\Civil\Drafting\Part C - Station Street\191441-CI-DG-7306.dgn

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4	25.10.21	ISSUE FOR TENDER	RY	PC
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Email: victoria@cardno.com.au Web: www.cardno.com.au/victoria

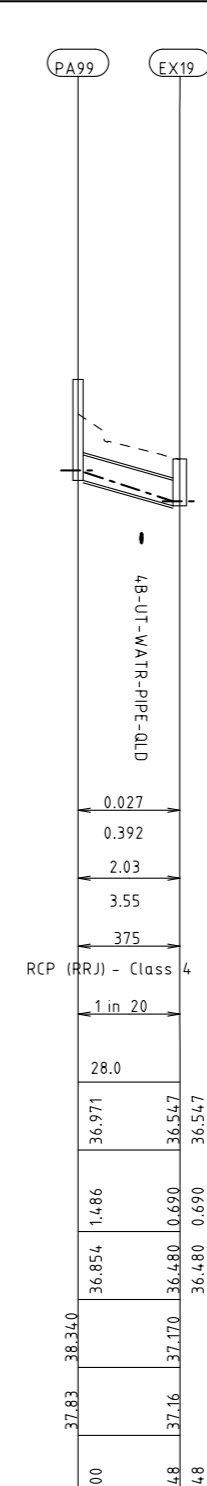
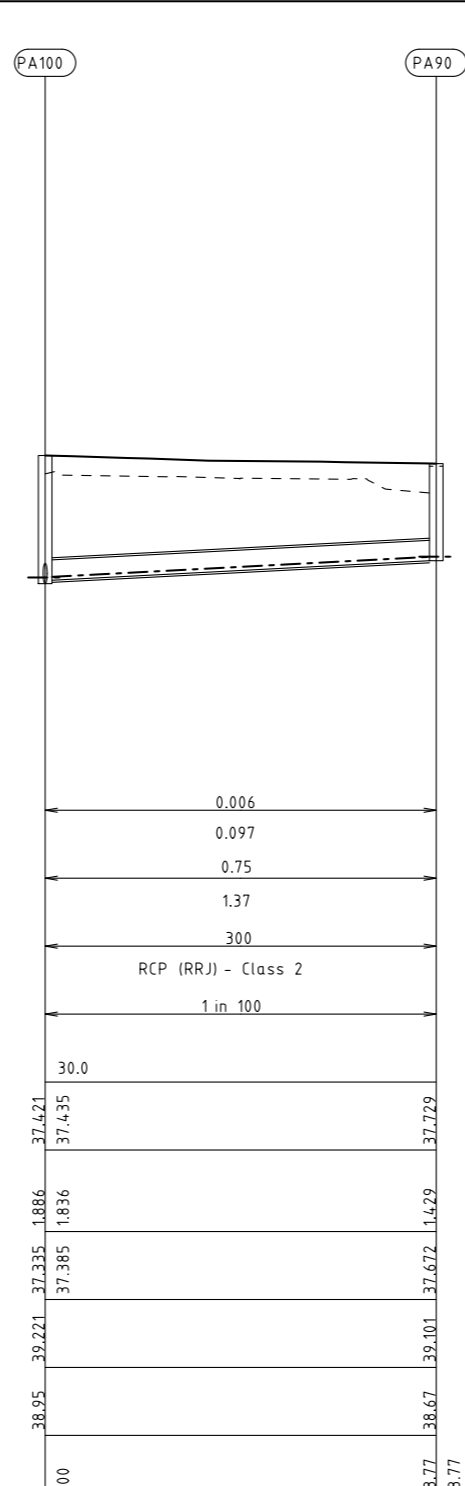
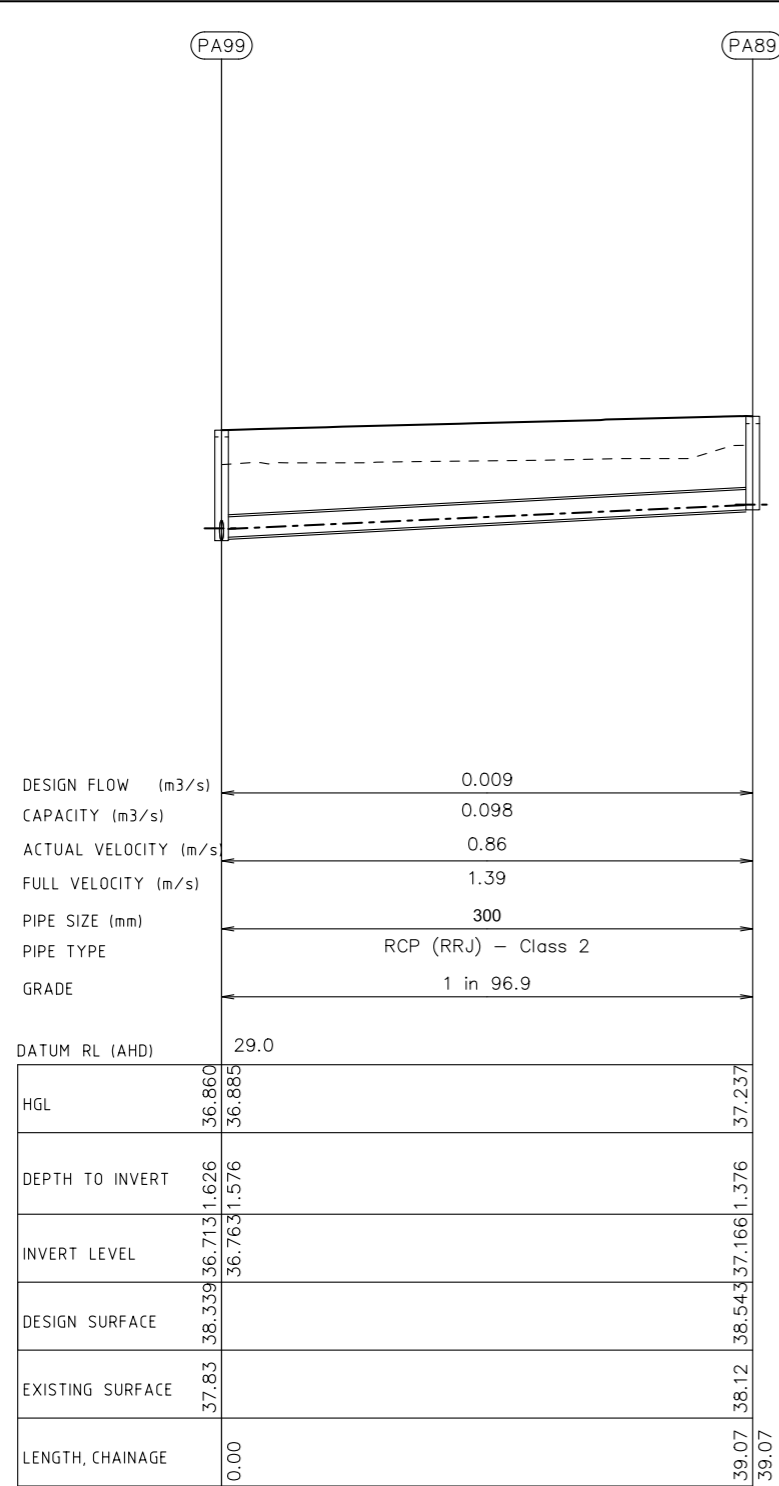
Drawn	K.PELLOSIS	Client	CARDINIA SHIRE COUNCIL
Designed	J.PANUNCIALMAN	Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION
Checked	P.CHATTERLEY	Title	DRAINAGE PLAN SHEET 6
Authorised	P.CHATTERLEY	Status	<b>FOR TENDER</b> NOT TO BE USED FOR CONSTRUCTION PURPOSES
		Date	23.02.21
		Scale	1:500
		Size	A3
		Drawing Number	V191441-CI-DG-7306
		Revision	4



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Rev	Date	Description	Drawn	Appr.
3	25.10.21	ISSUE FOR TENDER	RY	PC
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Drawn: K.PELLOSIS  
 Designed: J.PANUNCIALMAN  
 Checked: P.CHATTERLEY  
 Authorised: P.CHATTERLEY

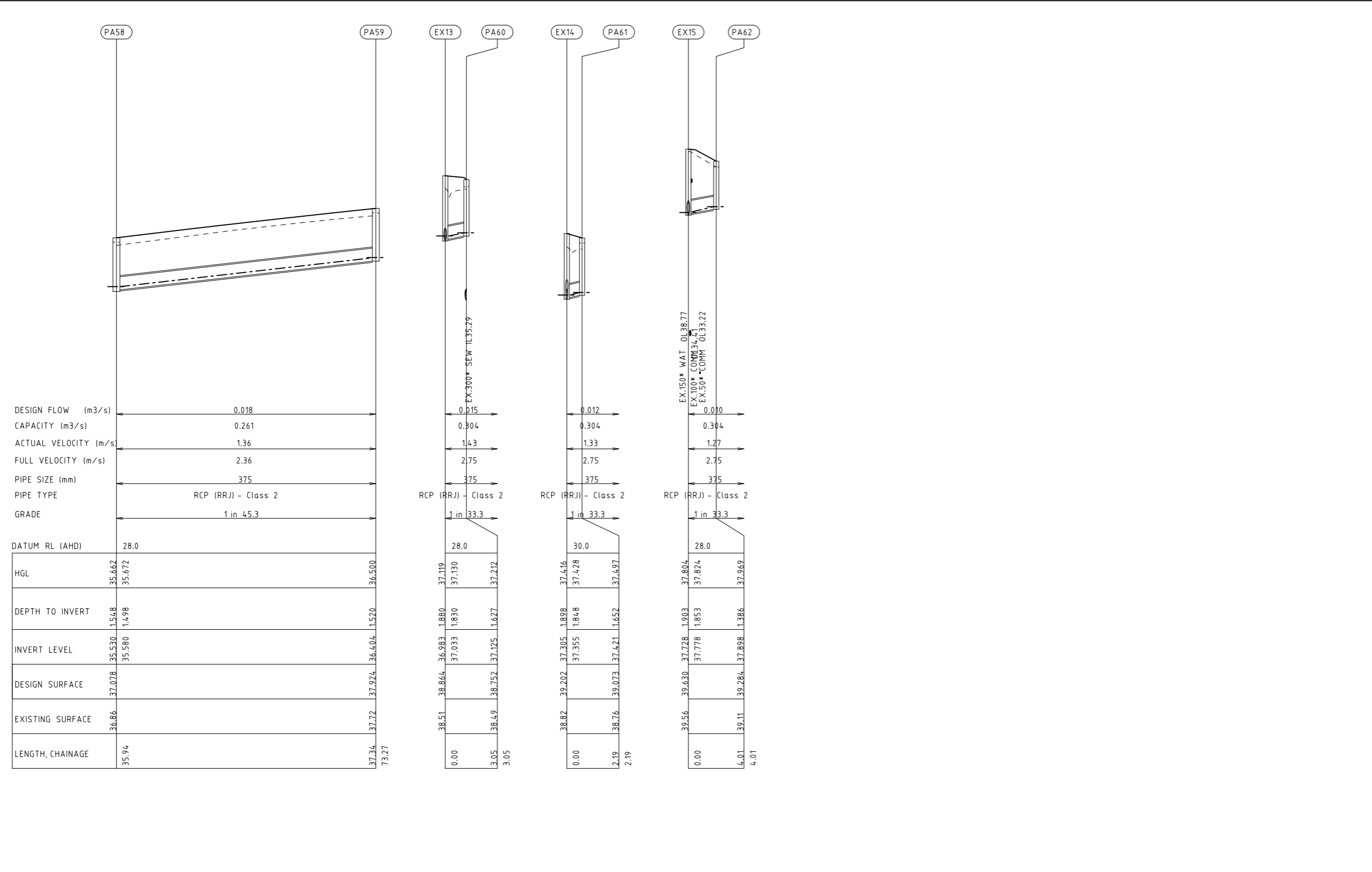
Client: CARDINIA SHIRE COUNCIL  
 Project: CSC  
 PART C - STATION STREET  
 STATION STREET & PRINCES HIGHWAY INTERSECTION  
 Title: DRAINAGE LONGITUDINAL SECTION  
 SHEET 1

Status: **FOR TENDER**  
 NOT TO BE USED FOR CONSTRUCTION PURPOSES  
 Date: 16.08.21  
 Scale: 1:1000  
 Drawing Number: V191441-CI-DG-7351  
 Revision: 3

BY: \$USERS\$

DATE PLOTTED: 25/10/2021 7:15:21 PM

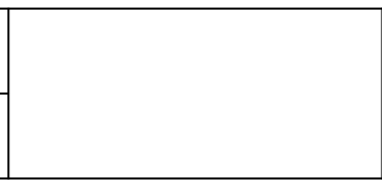
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Rev	Date	Description	Drawn	Appr.
3	25.10.21	ISSUE FOR TENDER	RY	PC
2	07.09.21	DETAIL DESIGN ISSUE	KP	PC
1	16.08.21	ISSUE FOR TENDER	KP	PC

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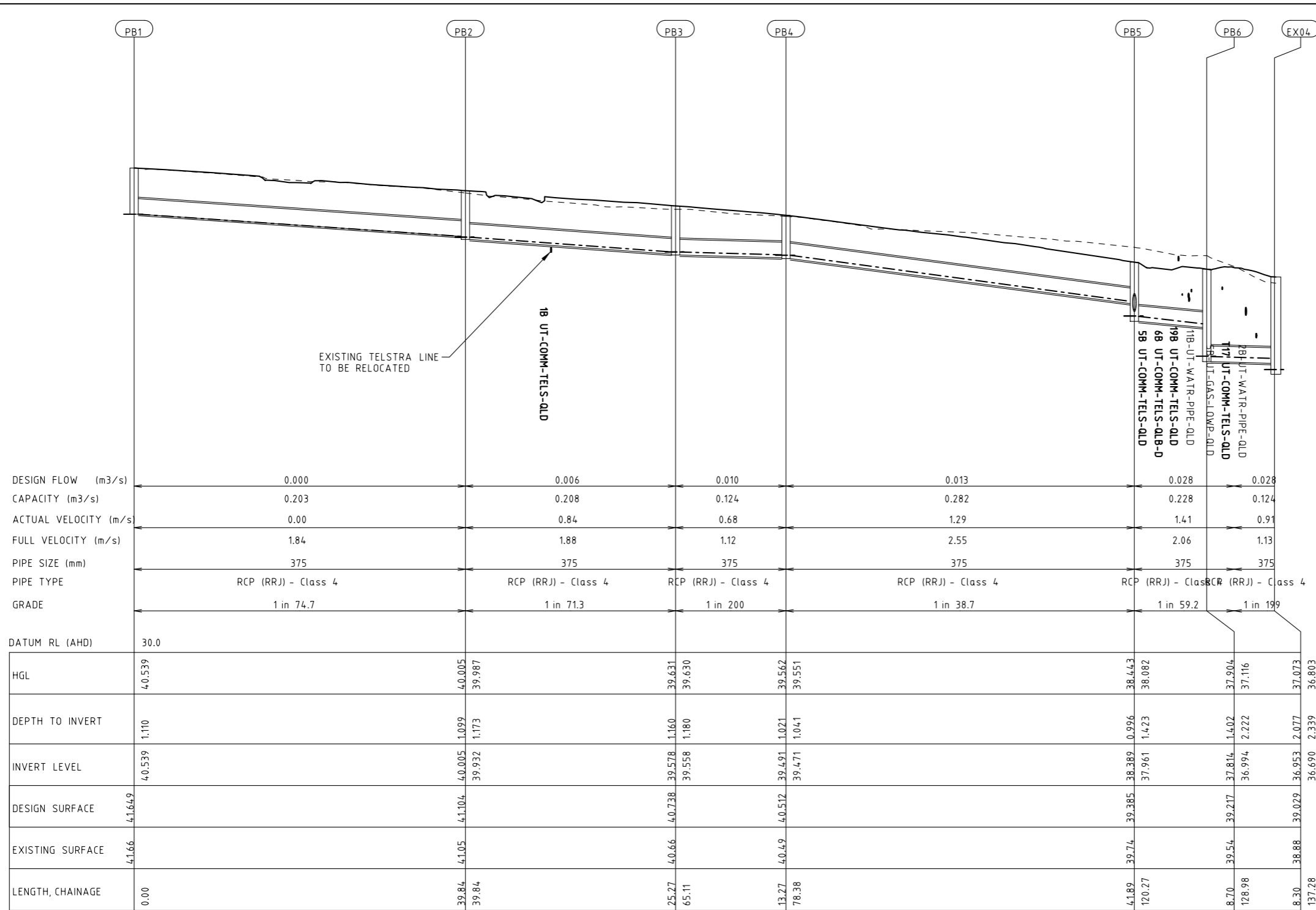
Drawn	K.PELLOSIS	Client	CARDINIA SHIRE COUNCIL		
Designed	J.PANUNCIALMAN	Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION		
Checked	P.CHATTERLEY	Title	DRAINAGE LONGITUDINAL SECTION SHEET 2		
Authorised	P.CHATTERLEY	Status	<b>FOR TENDER</b>		
			NOT TO BE USED FOR CONSTRUCTION PURPOSES		
		Date	16.08.21	Scale	1:1000
		Sheet		Size	A3
		Drawing Number	V191441-CI-DG-7352		Revision
					3



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CAD File: M:\2019\1001\_1500V191441\_CSC\_Design\_of\_6\_Intersections\Civil\Drafting\Part C - Station Street\191441-CI-DG-7353.dgn



DESIGN FLOW (m³/s)	0.000	0.006	0.010	0.013	0.028	0.028
CAPACITY (m³/s)	0.203	0.208	0.124	0.282	0.228	0.124
ACTUAL VELOCITY (m/s)	0.00	0.84	0.68	1.29	1.41	0.91
FULL VELOCITY (m/s)	1.84	1.88	1.12	2.55	2.06	1.13
PIPE SIZE (mm)	375	375	375	375	375	375
PIPE TYPE	RCP (RRJ) - Class 4	RCP (RRJ) - Class 4	RCP (RRJ) - Class 4	RCP (RRJ) - Class 4	RCP (RRJ) - Class 4	RCP (RRJ) - Class 4
GRADE	1 in 74.7	1 in 71.3	1 in 200	1 in 38.7	1 in 59.2	1 in 199
DATUM RL (AHD)	30.0					
HGL	40.539	40.005	39.631	39.562	38.443	37.073
DEPTH TO INVERT	1.110	1.099	1.160	1.021	0.996	2.339
INVERT LEVEL	40.539	39.932	39.578	39.471	37.961	36.690
DESIGN SURFACE	41.649	41.104	40.738	40.512	39.385	39.029
EXISTING SURFACE	41.66	41.05	40.66	40.49	39.74	38.88
LENGTH, CHAINAGE	0.00	39.84	65.11	132.7	120.27	137.28

Rev	Date	Description	Drawn	Appr.
3	25.10.21	ISSUE FOR TENDER	RY	PC
2	07.09.21	DETAIL DESIGN ISSUE	KP	PC
1	16.08.21	ISSUE FOR TENDER	KP	PC

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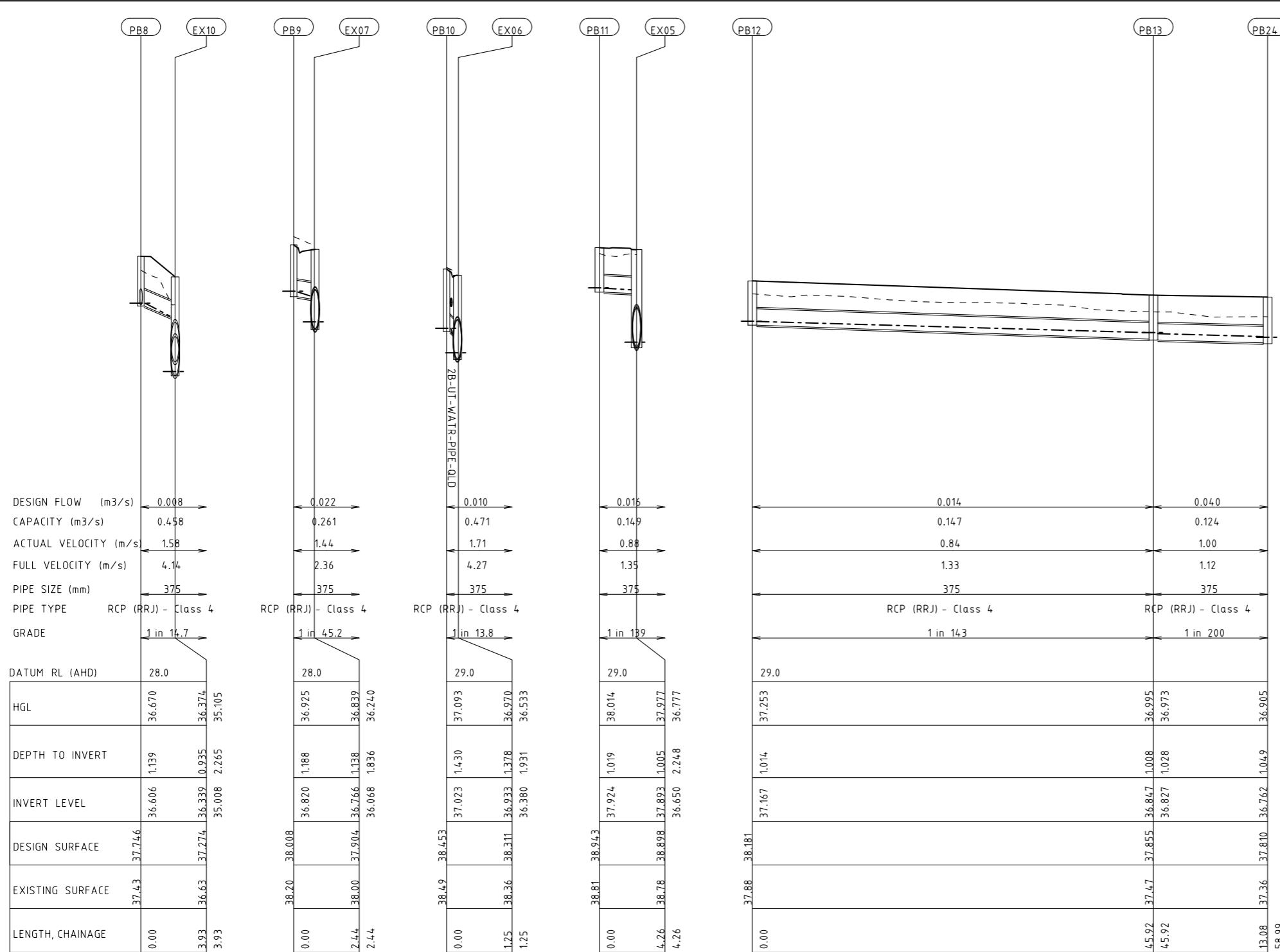


Drawn	K.PELLOSIS	Client	CARDINIA SHIRE COUNCIL
Designed	J.PANUNCIALMAN	Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION
Checked	P.CHATTERLEY	Title	DRAINAGE LONGITUDINAL SECTION SHEET 3
Authorised	P.CHATTERLEY	Status	<b>FOR TENDER</b> NOT TO BE USED FOR CONSTRUCTION PURPOSES
		Date	16.08.21
		Scale	1:1000
		Size	A3
		Drawing Number	V191441-CI-DG-7353
		Revision	3

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CAD File: M:\2019\1001\_1500V191441\_CSC\_Design\_of\_6\_Intersection\CV\IDrawing\Part C - Station Street\191441-CI-DG-7354.dgn

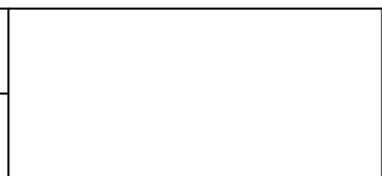


Rev	Date	Description	Drawn	Appr.
3	25.10.21	ISSUE FOR TENDER	RY	PC
2	07.09.21	DETAIL DESIGN ISSUE	KP	PC
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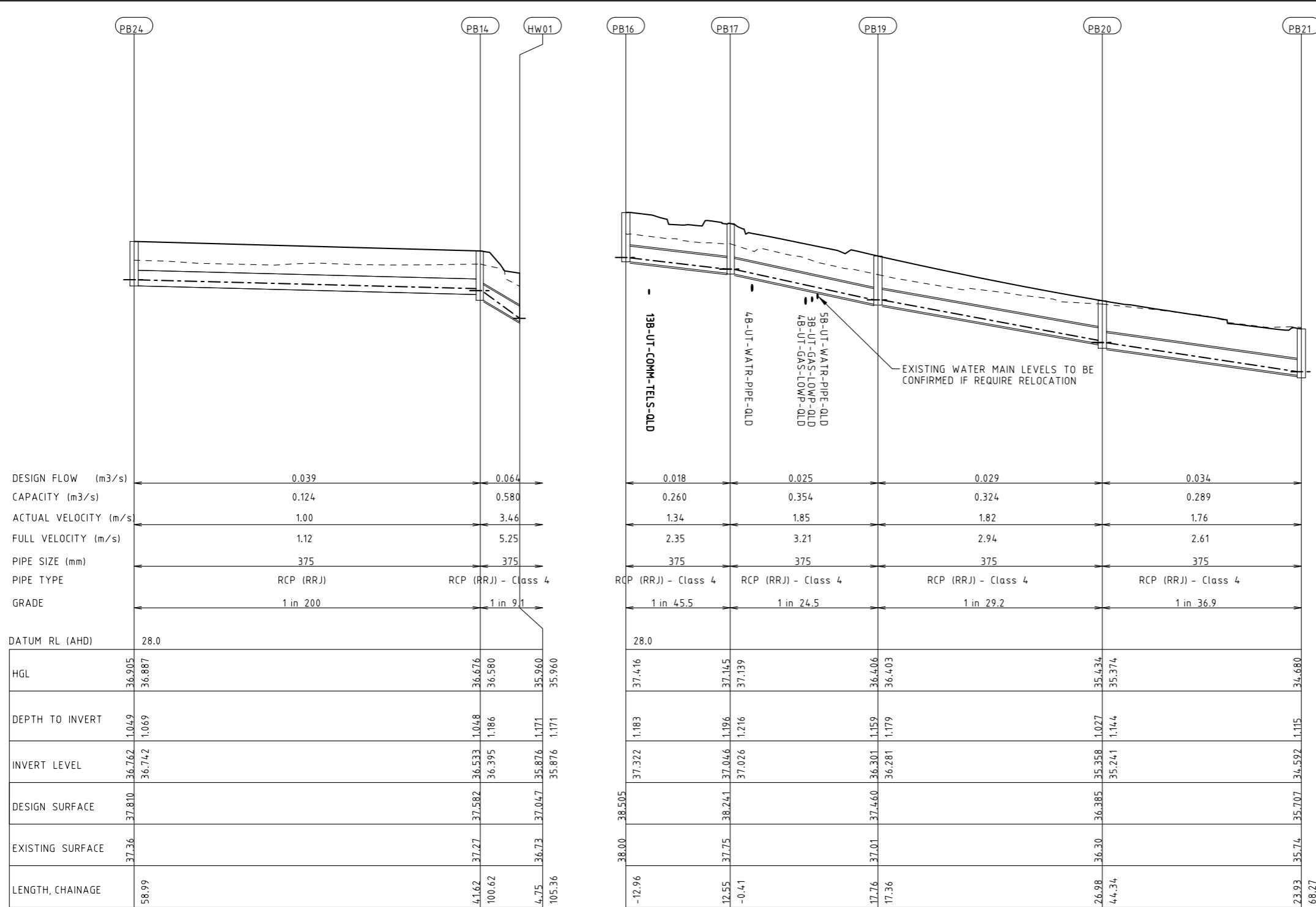
ABN: 47 106 610 913  
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 Phone (+61 3) 8415 7777 Fax (+61 3) 8415 7788  
 Email: victoria@cardno.com.au Web: www.cardno.com.au/victoria

Drawn K.PELLOSIS	Client CARDINIA SHIRE COUNCIL	Status <b>FOR TENDER</b>
Designed J.PANUNCIALMAN	Project CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION	NOT TO BE USED FOR CONSTRUCTION PURPOSES
Checked P.CHATTERLEY	Title DRAINAGE LONGITUDINAL SECTION SHEET 4	Date 16.08.21
Authorised P.CHATTERLEY	Drawing Number V191441-CI-DG-7354	Scale 1:1000
		Size A3
		Revision 3

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Rev	Date	Description	Drawn	Appr.
3	25.10.21	ISSUE FOR TENDER	RY	PC
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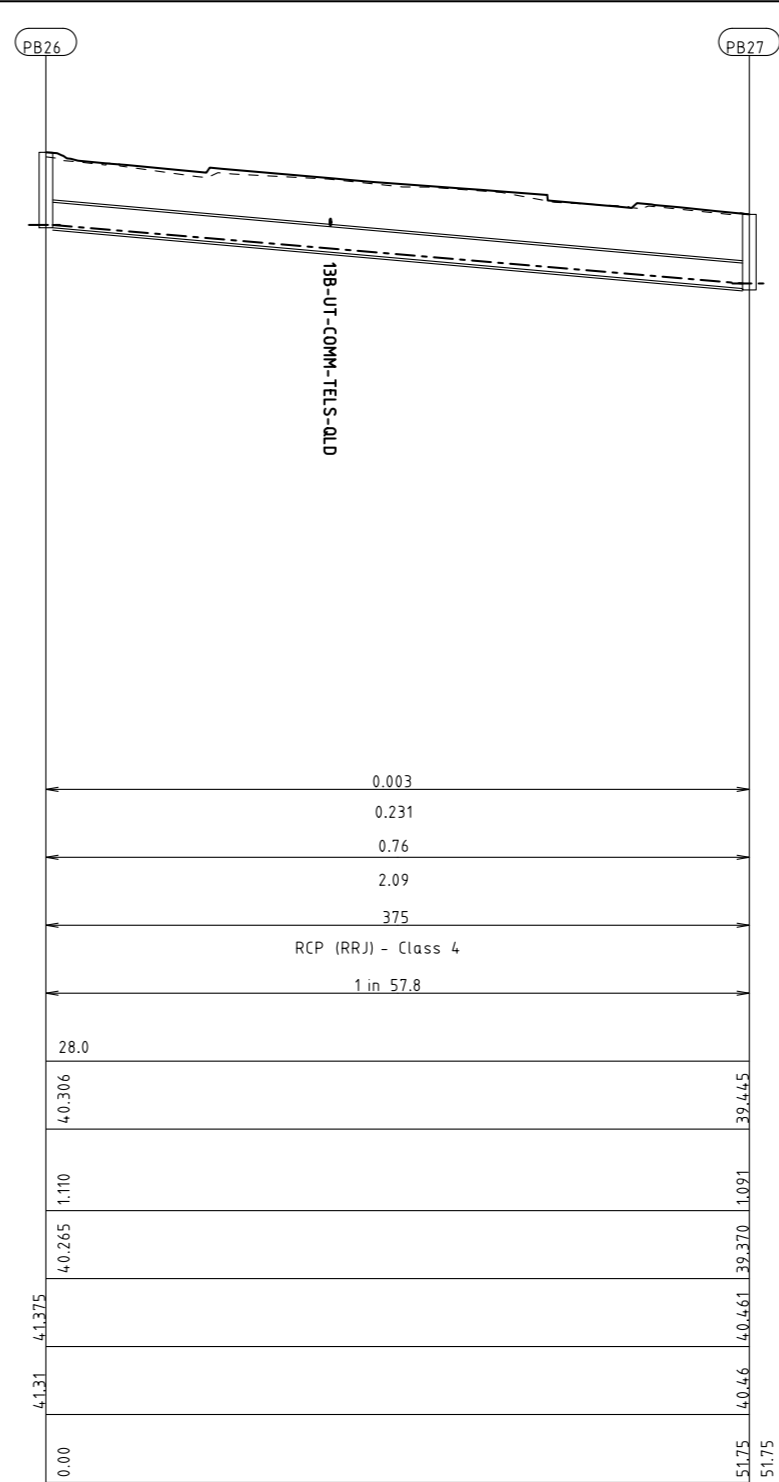
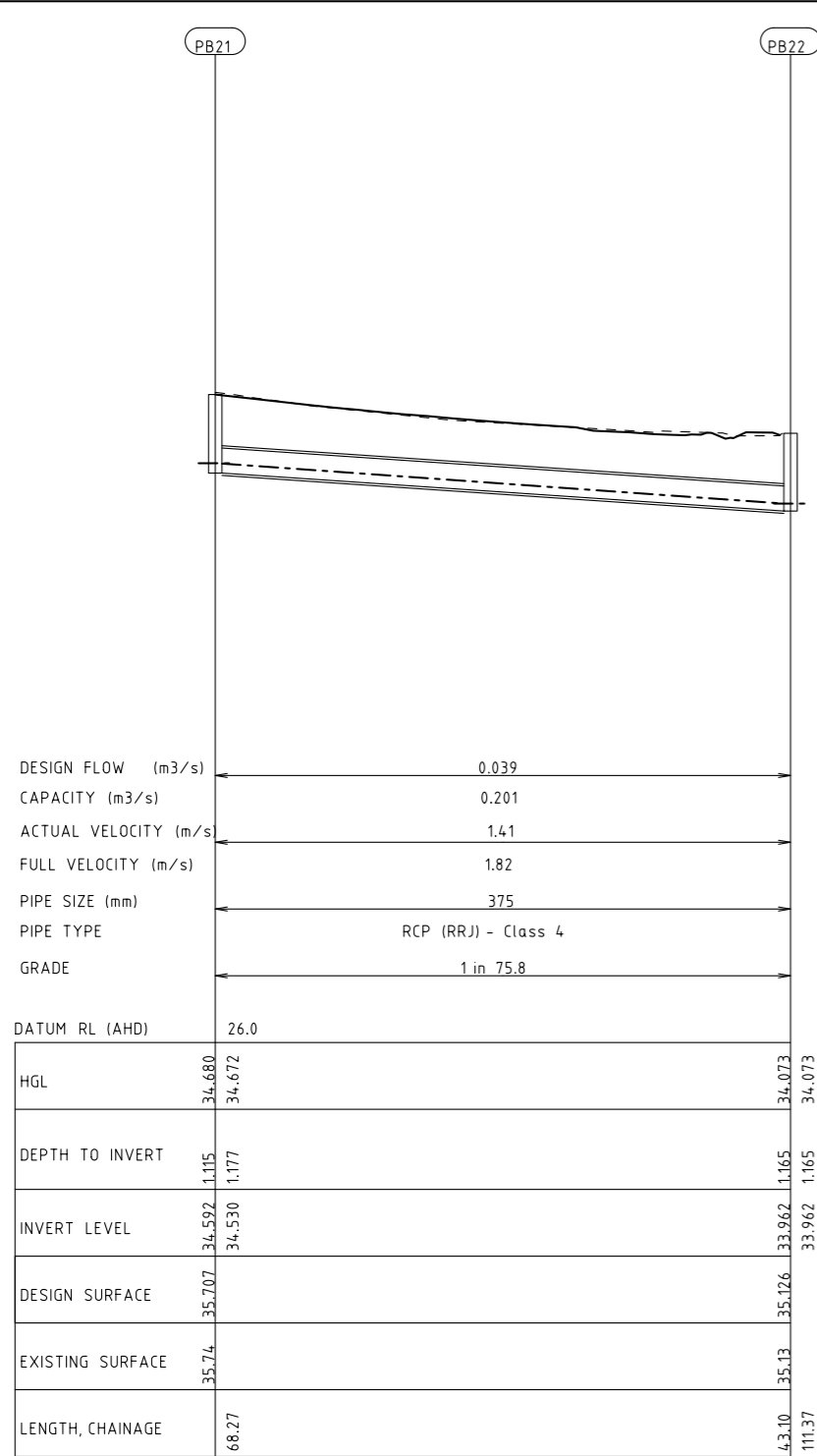
Drawn K.PELLOSIS	Client CARDINIA SHIRE COUNCIL	Status <b>FOR TENDER</b>
Designed J.PANUNCIALMAN	Project CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION	NOT TO BE USED FOR CONSTRUCTION PURPOSES
Checked P.CHATTERLEY	Title DRAINAGE LONGITUDINAL SECTION SHEET 5	Date 16.08.21
Authorised P.CHATTERLEY	Drawing Number V191441-CI-DG-7355	Scale 1:1000
		Size A3
		Revision 3



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3	25.10.21	ISSUE FOR TENDER	RY	PC
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Drawn: K.PELLOSIS  
 Designed: J.PANUNCIALMAN  
 Checked: P.CHATTERLEY  
 Authorised: P.CHATTERLEY

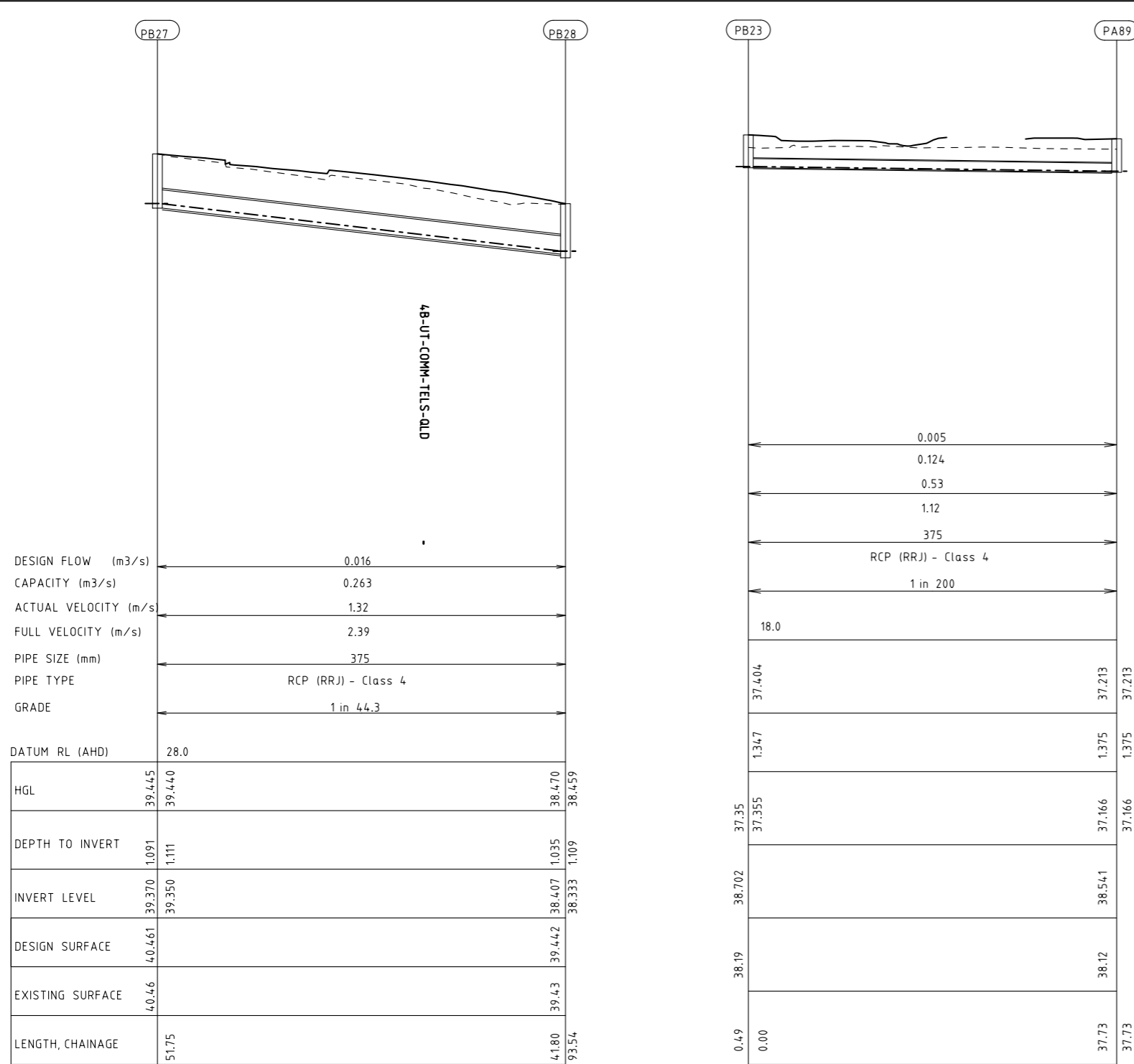
Client: CARDINIA SHIRE COUNCIL  
 Project: CSC  
 PART C - STATION STREET  
 STATION STREET & PRINCES HIGHWAY INTERSECTION  
 Title: DRAINAGE LONGITUDINAL SECTION  
 SHEET 6

Status: **FOR TENDER**  
 NOT TO BE USED FOR CONSTRUCTION PURPOSES  
 Date: 16.08.21 Scale: 1:1000 Size: A3  
 Drawing Number: V191441-CI-DG-7356  
 Revision: 3

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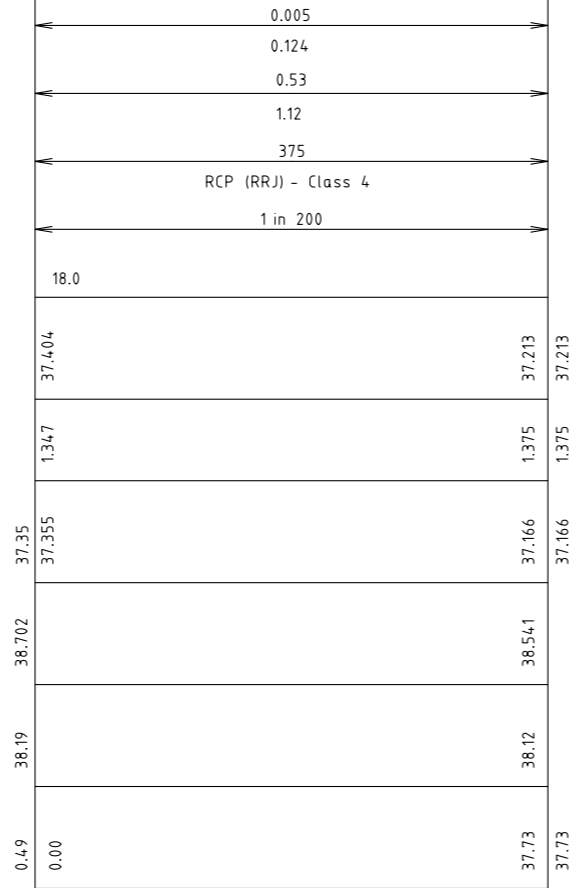
DATE PLOTTED: 25/10/2021 7:15:38 PM

CAD File: M:\2019\1001\_15000\191441\_CSC\_Design\_of\_6\_Intersections\Civil\Drafting\Part C - Station Street\191441-CI-DG-7357.dgn



DESIGN FLOW (m3/s)	0.016
CAPACITY (m3/s)	0.263
ACTUAL VELOCITY (m/s)	1.32
FULL VELOCITY (m/s)	2.39
PIPE SIZE (mm)	375
PIPE TYPE	RCP (RRJ) - Class 4
GRADE	1 in 44.3

DATUM RL (AHD)	28.0	
HGL	39.445 39.440	38.470 38.459
DEPTH TO INVERT	1.091 1.111	1.035 1.109
INVERT LEVEL	39.370 39.350	38.407 38.333
DESIGN SURFACE	40.461 39.442	39.443 38.333
EXISTING SURFACE	40.46 39.43	39.43 38.333
LENGTH, CHAINAGE	51.75	41.80 93.54



Rev	Date	Description	Drawn	Appr.
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1	16.08.21	ISSUE FOR TENDER	KP	PC

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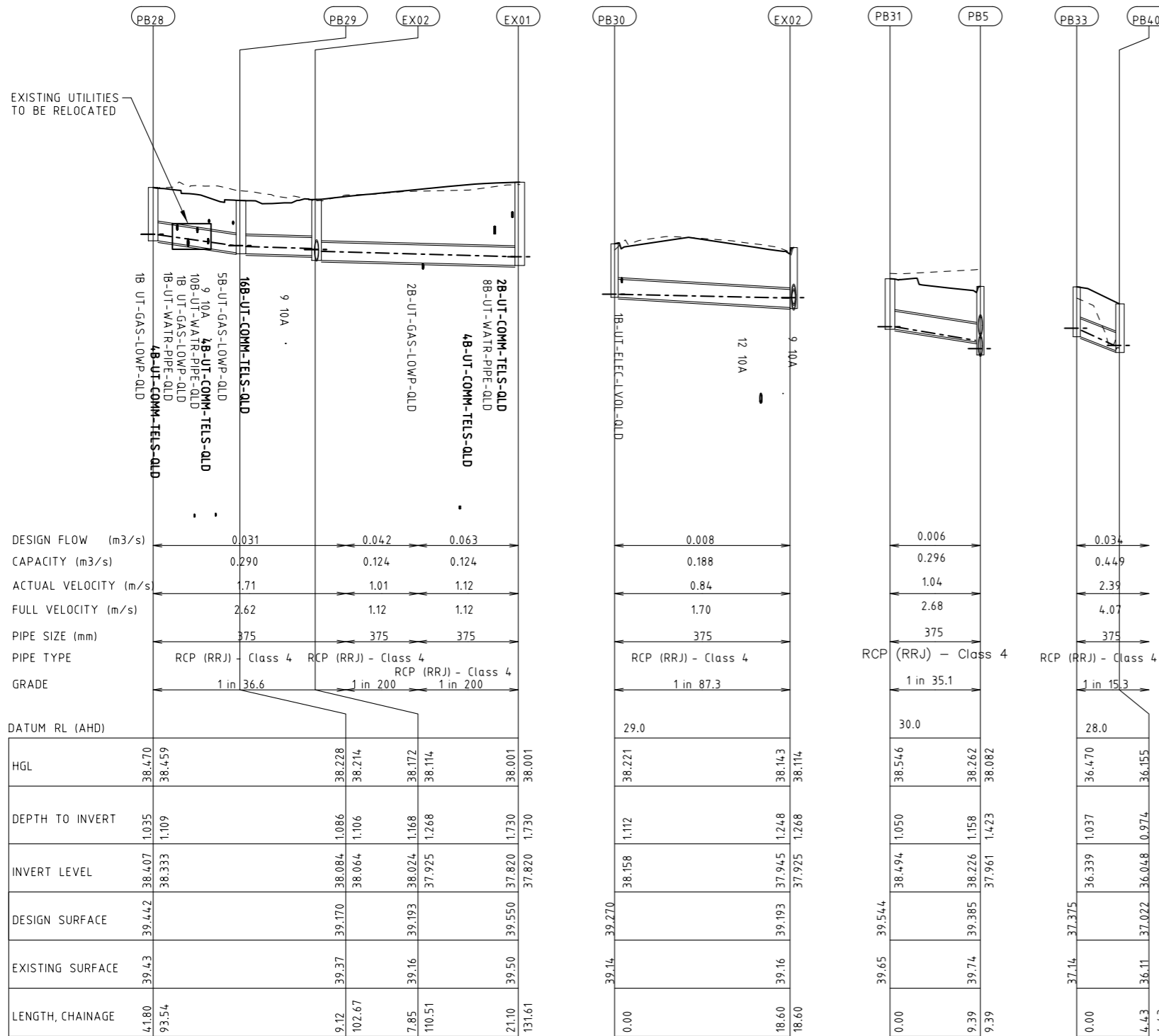


Drawn	K.PELLOSIS	Client	CARDINIA SHIRE COUNCIL		
Designed	J.PANUNCIALMAN	Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION		
Checked	P.CHATTERLEY	Title	DRAINAGE LONGITUDINAL SECTION SHEET 7		
Authorised	P.CHATTERLEY	Status	<b>FOR TENDER</b> NOT TO BE USED FOR CONSTRUCTION PURPOSES		
		Date	16.08.21	Scale	1:1000
		Drawing Number	V191441-CI-DG-7357		Revision
					3

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CAD File: M:\2019\1001\_1500V191441\_CSC\_Design\_of\_6\_Intersections\Civil\Drafting\Part C - Station Street\191441-CI-DG-7358.dgn



Rev	Date	Description	Drawn	Appr.
3	25.10.21	ISSUE FOR TENDER	RY	PC
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 1:1000 @ A3

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Drawn	K.PELLOSIS	Client	CARDINIA SHIRE COUNCIL
Designed	J.PANUNCIALMAN	Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION
Checked	P.CHATTERLEY	Title	DRAINAGE LONGITUDINAL SECTION SHEET 8
Authorised	P.CHATTERLEY	Status	<b>FOR TENDER</b> NOT TO BE USED FOR CONSTRUCTION PURPOSES

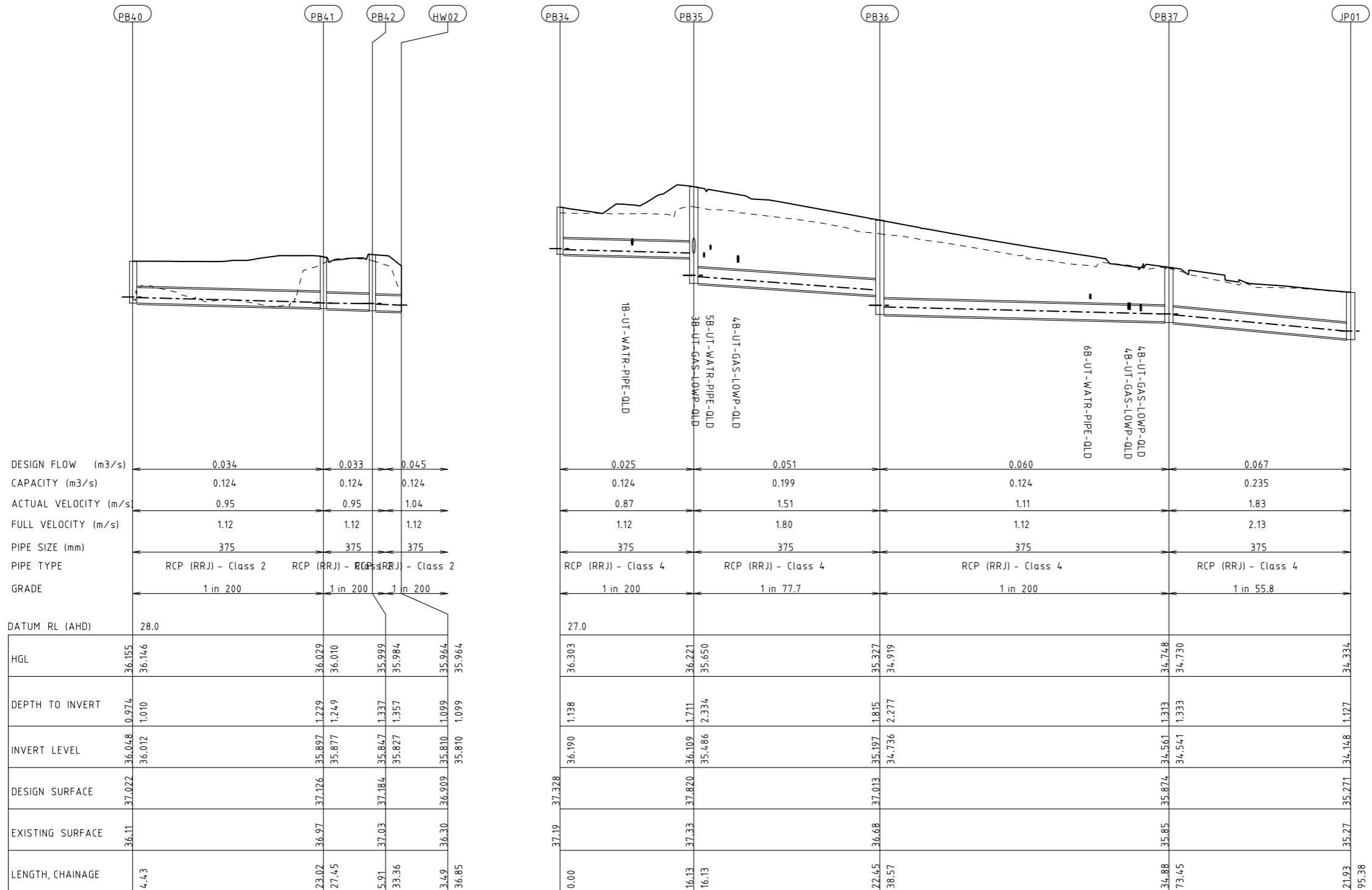
Date	16.08.21	Scale	1:1000	Size	A3
Drawing Number	V191441-CI-DG-7358	Revision	3		



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DATE PLOTTED: 25/10/2021 7:15:45 PM

CAD File: M:\2019\1001\_1500V191441\_CSC\_Design\_of\_6\_Intersections\Civil\Drafting\Part C - Station Street\191441-CI-DG-7359.dgn



Rev	Date	Description	Drawn	Appr.
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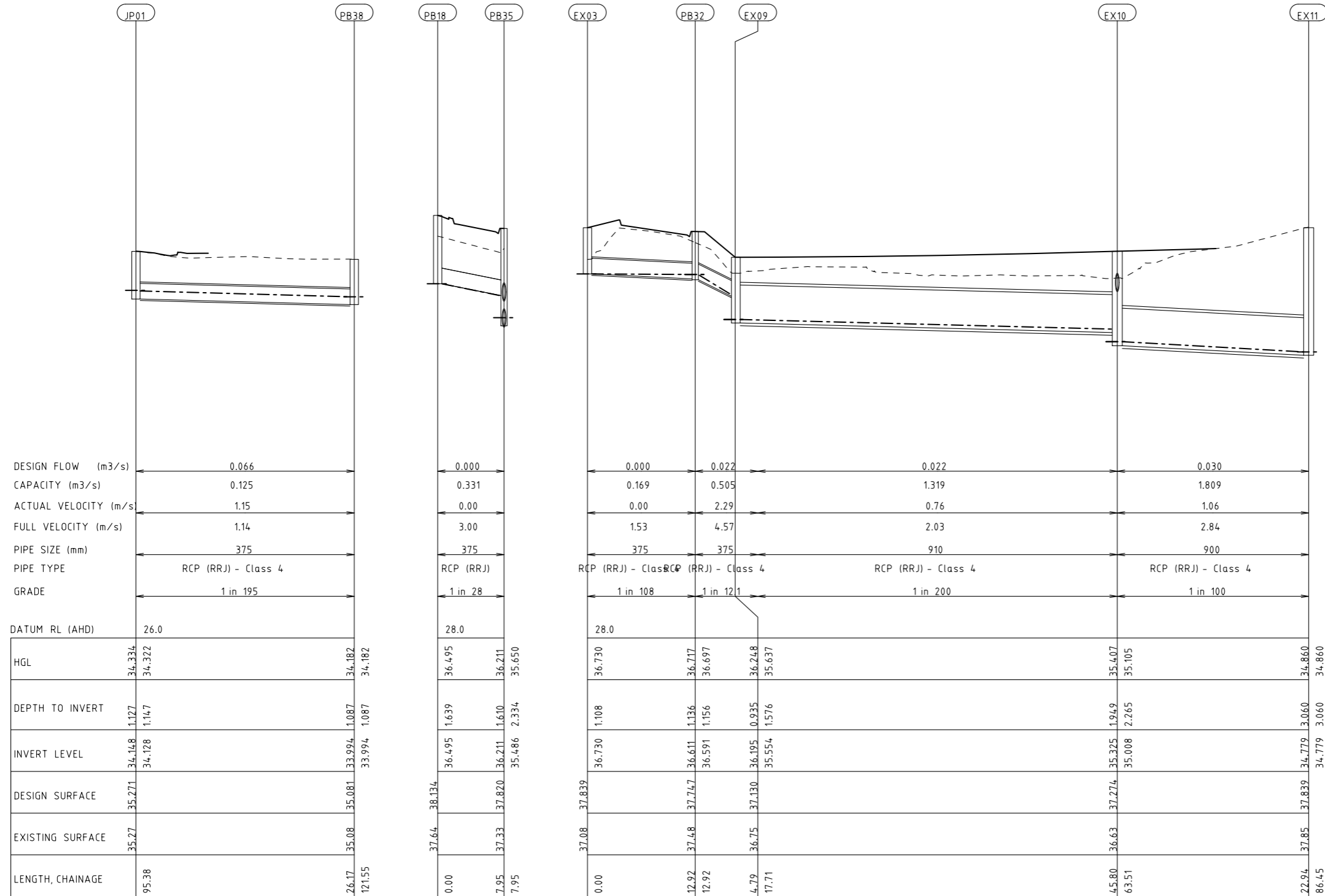


Drawn	K.PELLOSIS	Client	CARDINIA SHIRE COUNCIL
Designed	J.PANUNCIALMAN	Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION
Checked	P.CHATTERLEY	Title	DRAINAGE LONGITUDINAL SECTION SHEET 9
Authorised	P.CHATTERLEY	Status	<b>FOR TENDER</b> NOT TO BE USED FOR CONSTRUCTION PURPOSES
		Date	16.08.21
		Scale	1:1000
		Size	A3
		Drawing Number	V191441-CI-DG-7359
		Revision	3

BY: \$USERS\$

DATE PLOTTED: 25/10/2021 7:15:49 PM

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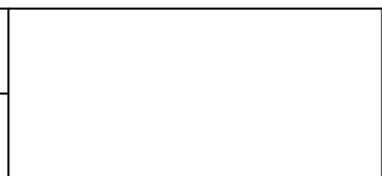


Rev	Date	Description	Drawn	Appr.
3	25.10.21	ISSUE FOR TENDER	RY	PC
2	07.09.21	DETAIL DESIGN ISSUE	KP	PC
1	16.08.21	ISSUE FOR TENDER	KP	PC

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Drawn: K.PELLOSIS  
 Designed: J.PANUNCIALMAN  
 Checked: P.CHATTERLEY  
 Authorised: P.CHATTERLEY

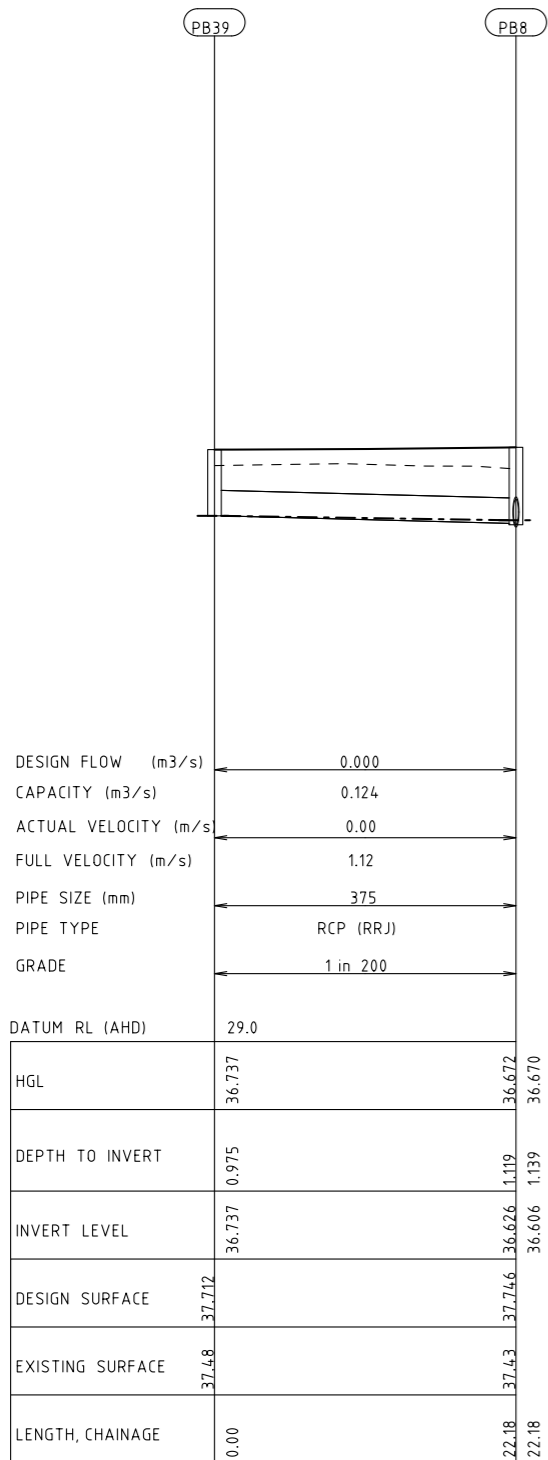
Client: CARDINIA SHIRE COUNCIL  
 Project: CSC  
 PART C - STATION STREET  
 STATION STREET & PRINCES HIGHWAY INTERSECTION  
 Title: DRAINAGE LONGITUDINAL SECTION  
 SHEET 10

Status: **FOR TENDER**  
 NOT TO BE USED FOR CONSTRUCTION PURPOSES  
 Date: 16.08.21 Scale: 1:1000 Size: A3  
 Drawing Number: V191441-CI-DG-7360  
 Revision: 3

BY: \$USERS\$

DATE PLOTTED: 25/10/2021 7:15:53 PM

CAD File: M:\2019\1001\_1500V191441\_CSC\_Design\_of\_6\_Intersections\Civil\Drafting\Part C - Station Street\191441-CI-DG-7361.dgn



Rev	Date	Description	Drawn	Appr.
3	25.10.21	ISSUE FOR TENDER	RY	PC
2	07.09.21	DETAIL DESIGN ISSUE	KP	PC
1	16.08.21	ISSUE FOR TENDER	KP	PC

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 1:1000 @ A3

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Drawn	K.PELLOSIS	Client	CARDINIA SHIRE COUNCIL		
Designed	J.PANUNCIALMAN	Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION		
Checked	P.CHATTERLEY	Title	DRAINAGE LONGITUDINAL SECTION SHEET 11		
Authorised	P.CHATTERLEY	Status	<b>FOR TENDER</b> NOT TO BE USED FOR CONSTRUCTION PURPOSES		
		Date	16.08.21	Scale	1:1000
		Drawing Number	V191441-CI-DG-7361		Revision
					3



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DATE PLOTTED: 25/10/2021 7:15:57 PM

CAD File: M:\2019\1001\_1500\191441\_CSC\_Design\_of\_6\_Intersections\Civil\Drafting\Part C - Station Street\191441-CI-DG-7362.dgn

PIT NO	LOCATION		TYPE	INTERNAL		PIT COVER LEVEL	DEPTH	INLET		OUTLET		COMMENTS
	EASTING	NORTHING		WD	LEN			DIA	INV LEV	DIA	INV LEV	
EX01	360474.770	5786342.189	SEP	750	1000	39.550	1.70	375	37.855	0	0.000	CONFIRM EXISTING IL ON SITE PRIOR TO CONSTRUCTION, REFER TO VICROADS 1121
EX02	360494.074	5786333.695	SEP	750	1000	39.193	1.23	375	38.059	375	37.980	CONFIRM EXISTING IL ON SITE PRIOR TO CONSTRUCTION, REFER TO VICROADS 1121
EX03	360767.296	5786254.369	SEP	750	1000	37.839	1.07	0	0.000	375	36.765	CONFIRM EXISTING IL ON SITE PRIOR TO CONSTRUCTION, REFER TO VICROADS 1121
EX04	360547.131	5786319.329	JP	900	1200	38.995	2.31	375	36.953	900	36.690	EXISTING JUNCTION PIT TO BE RETAINED, COVER LEVEL ADJUSTED TO SUIT FINISHED GRADE
EX05	360552.678	5786318.660	JP	900	1200	38.898	2.25	900	36.680	900	36.650	EXISTING JUNCTION PIT TO BE RETAINED, COVER LEVEL ADJUSTED TO SUIT FINISHED GRADE
EX06	360609.795	5786306.334	JP	900	1200	38.311	1.93	900	36.400	900	36.380	CONVERT EXISTING SEP TO JP, EXISTING INVERT LEVEL TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION, REFER TO VICROADS SD 1121
EX07	360666.829	5786293.906	JP	900	1200	37.904	1.84	900	36.088	900	36.068	CONVERT EXISTING SEP TO JP, EXISTING INVERT LEVEL TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION, REFER TO VICROADS SD 1121
EX08	360695.717	5786287.702	JP	900	1200	37.933	2.03	900	35.900	0	0.000	EXISTING JUNCTION PIT TO BE RETAINED, COVER LEVEL ADJUSTED TO SUIT FINISHED GRADE
EX09	360771.315	5786273.614	JP	900	1200	37.130	1.50	375	36.230	900	35.630	EXISTING JUNCTION PIT TO BE RETAINED, COVER LEVEL ADJUSTED TO SUIT FINISHED GRADE
EX11	360704.178	5786288.367	JP	900	1200	37.839	3.06	900	34.779	0	0.000	EXISTING JUNCTION PIT TO BE RETAINED, COVER LEVEL ADJUSTED TO SUIT FINISHED GRADE
EX12	360685.222	5786290.211	SEP	750	1000	38.017	2.06	900	35.974	900	35.954	RECONSTRUCT PIT BEHIND PROPOSED KERB AND CONNECT EXISTING PIPES, REFER TO VICROADS SD 1301
EX19	360349.904	5786365.349	JP	750	1000	38.864	1.88	375	37.033	375	36.983	CONNECT TO EXISTING PIT, CONVERT EXISTING SEP TO JP, EXISTING INVERT LEVEL TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION
EX14	360383.794	5786357.988	JP	750	1000	39.202	1.90	375	37.355	300	37.305	CONNECT TO EXISTING PIT AND CONVERT EXISTING SEP TO JP, EXISTING INVERT LEVEL TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION, REFER VICROADS SD 1121
EX15	360417.450	5786354.721	JP	750	1000	39.630	1.90	375	37.778	375	37.728	CONNECT TO EXISTING PIT, EXISTING INVERT LEVEL TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
EX16	360276.105	5786329.095	SEP	750	1000	35.923	1.90	300	34.253	300	34.028	CONFIRM EXISTING IL ON SITE PRIOR TO CONSTRUCTION, REFER TO VICROADS 1121
EX17	360404.586	5786332.775	SEP	750	1000	38.928	1.63	300	37.328	300	37.300	CONVERT EXISTING SEP TO JP, REFER VICROADS SD 1121.
HW01	360683.677	5786255.398	EW	0	0	37.047	1.170	375	35.876	0	0.000	INSTALL CULVERT HEADWALL, INVERT CONNECTION TO SWALE TO BE VERIFIED ON SITE, REFER TO VICROADS SD 1931
HW02	360709.836	5786247.315	EW	0	0	36.298	0.41	375	35.890	0	0.000	INSTALL CULVERT HEADWALL, INVERT CONNECTION TO SWALE TO BE VERIFIED ON SITE, REFER TO VICROADS SD 1931
JP01	360508.489	5786200.969	JP	750	1000	35.271	1.11	375	34.177	375	34.157	REFER TO VICROADS SD 1121
PA17	360287.803	5786346.483	SEP	750	1000	37.198	1.80	375	35.448	375	35.398	REFER VICROADS SD 1301
PA18	360333.824	5786336.023	SEP	750	1000	37.910	1.96	375	36.004	375	35.954	REFER VICROADS SD 1301
PA19	360376.296	5786324.775	SEP	750	1000	38.206	1.76	0	0.000	375	36.443	REFER VICROADS SD 1301
PA59	360306.515	5786371.701	SEP	750	1000	37.924	1.52	0	0.000	375	36.464	REFER VICROADS SD 1301
PA60	360349.374	5786362.348	SEP	750	1000	38.752	1.63	0	0.000	375	37.125	REFER VICROADS SD 1301
PA61	360383.993	5786355.840	SEP	750	1000	39.073	1.65	0	0.000	375	37.421	REFER VICROADS SD 1301
PA62	360417.268	5786350.725	SEP	750	1000	39.284	1.39	0	0.000	375	37.898	REFER VICROADS SD 1301
PA90	360376.796	5786340.164	SEP	750	1000	39.101	1.43	0	0.000	300	37.672	REFER VICROADS SD 1301
PA100	360404.909	5786334.052	SEP	750	1000	39.221	1.89	300	37.385	300	37.335	CONSTRUCT SEP ON EXISTING PIPE, EXISTING INVERT LEVEL TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION, REFER VICROADS SD 1301.
PB1	360536.332	5786453.110	SEP	750	1000	41.651	1.07	0	0.000	375	40.579	REFER TO VICROADS SD 1301
PB10	360609.978	5786307.560	SEP	750	1000	38.453	1.40	0	0.000	375	37.058	REFER TO VICROADS SD 1301
PB11	360548.426	5786318.603	SEP	750	1000	38.928	0.99	0	0.000	375	37.939	REFER TO VICROADS SD 1301
PB12	360584.548	5786277.803	SEP	750	1000	38.181	1.01	0	0.000	375	37.167	REFER TO VICROADS SD 1301
PB13	360629.448	5786268.195	SEP	750	1000	37.864	1.00	375	36.889	375	36.869	REFER TO VICROADS SD 1301
PB14	360697.987	5786257.732	SEP	750	1000	37.514	1.21	375	36.522	375	36.303	REFER TO VICROADS SD 1301
PB15	360712.877	5786248.802	SEP	750	1000	37.194	1.22	375	35.995	375	35.975	REFER TO VICROADS SD 1301
PB16	360540.570	5786287.138	SEP	750	1000	38.474	1.14	0	0.000	375	37.338	REFER TO VICROADS SD 1301
PB17	360528.724	5786283.349	SEP	750	1000	38.241	1.17	375	37.093	375	37.073	REFER TO VICROADS SD 1301
PB18	360532.820	5786275.451	SEP	750	1000	37.946	1.26	375	36.707	375	36.687	REFER TO VICROADS SD 1301
PB19	360527.723	5786265.616	SEP	750	1000	37.460	1.03	375	36.507	375	36.427	REFER TO VICROADS SD 1301
PB2	360532.113	5786413.495	SEP	750	1000	41.109	1.12	375	40.045	375	39.993	REFER TO VICROADS SD 1301
PB20	360525.973	5786238.693	SEP	750	1000	36.385	1.11	375	35.393	375	35.276	REFER TO VICROADS SD 1301
PB21	360522.583	5786215.001	SEP	750	1000	35.707	1.14	375	34.627	375	34.565	REFER TO VICROADS SD 1301
PB22	360515.413	5786172.503	SEP	750	1000	35.126	1.13	375	33.997	0	0.000	REFER TO VICROADS SD 1301
PA99	360401.325	5786317.695	SEP	750	1000	38.340	1.49	0	0.000	375	36.854	REFER TO VICROADS SD 1301
PB24	360437.206	5786309.812	SEP	750	1000	38.064	1.52	375	36.564	375	36.544	REFER TO VICROADS SD 1301
PB25	360401.735	5786317.595	SEP	750	1000	37.838	1.48	375	36.363	0	0.000	REFER TO VICROADS SD 1301
PB26	360523.033	5786431.282	SEP	750	1000	41.375	1.08	0	0.000	375	40.300	REFER TO VICROADS SD 1301
PB27	360514.621	5786380.225	SEP	750	1000	40.461	1.08	375	39.405	375	39.385	REFER TO VICROADS SD 1301
PB28	360508.742	5786338.857	SEP	750	1000	39.442	1.07	375	38.442	375	38.368	REFER TO VICROADS SD 1301
PB29	360501.868	5786333.045	SEP	750	1000	39.170	1.07	375	38.119	375	38.099	REFER TO VICROADS SD 1301
PB3	360534.120	5786388.310	SEP	750	1000	40.733	1.12	375	39.630	375	39.610	REFER TO VICROADS SD 1301
PB30	360490.203	5786315.891	SEP	750	1000	39.270	1.08	0	0.000	375	38.193	REFER TO VICROADS SD 1301
PB31	360530.402	5786334.931	SEP	750	1000	39.481	0.97	0	0.000	375	38.507	REFER TO VICROADS SD 1301
PB32	360770.171	5786268.963	SEP	750	1000	37.747	1.12	375	36.646	375	36.626	REFER TO VICROADS SD 1301
PB33	360742.445	5786249.623	SEP	750	1000	37.384	0.98	0	0.000	375	36.407	REFER TO VICROADS SD 1301
PB34	360487.948	5786283.829	SEP	750	1000	37.351	0.97	0	0.000	375	36.381	REFER TO VICROADS SD 1301
PB35	360503.269	5786279.390	SEP	750	1000	37.820	2.33	375	36.300	375	35.486	REFER TO VICROADS SD 1301
PB36	360509.029	5786257.712	SEP	750	1000	37.013	2.28	375	35.197	375	34.736	REFER TO VICROADS SD 1301
PB37	360509.857	5786222.851	SEP	750	1000	35.875	1.33	375	34.561	375	34.541	REFER TO VICROADS SD 1301
PB38	360503.897	5786175.222	SEP	750	1000	35.081	1.05	375	34.027	0	0.000	REFER TO VICROADS SD 1301
PB40	360741.597	5786245.274	JP	750	1000	37.131	0.97	375	36.158	375	36.110	REFER TO VICROADS SD 1131
PB41	360718.933	5786248.879	SEP	750	1000	37.126	1.17	375	35.977	375	35.957	REFER TO VICROADS SD 1301
PB42	360713.119	5786248.480	SEP	750	1000	37.180	1.27	375	35.928	375	35.908	REFER TO VICROADS SD 1301
PB4	360534.586	5786375.045	SEP	750	1000	40.497	0.99	375	39.532	375	39.511	REFER TO VICROADS SD 1301
PB5	360539.655	5786333.464	SEP	750	1000	39.384	1.42	375	38.423	375	37.961	REFER TO VICROADS SD 1301
PB5	360539.655	5786333.464	SEP	750	1000	39.384	1.42	375	38.280	0	0.000	REFER TO VICROADS SD 1301
PB6	360541.175	5786324.896	SEP	750	1000	39.171	2.18	375	37.814	375	36.994	REFER TO VICROADS SD 1301
PB8	360725.244	5786279.628	SEP	750	1000	37.746	1.00	0	0.000	375	36.743	REFER TO VICROADS SD 1301
PB9	360667.411	5786296.278	SEP	750	1000	38.008	1.15	0	0.000	375	36.855	REFER TO VICROADS SD 1301

Rev	Date	Description	Drawn	Appr.
3	25.10.21	ISSUE FOR TENDER	RY	PC
2	07.09.21	DETAIL DESIGN ISSUE	KP	PC
1	16.08.21	ISSUE FOR TENDER	KP	PC

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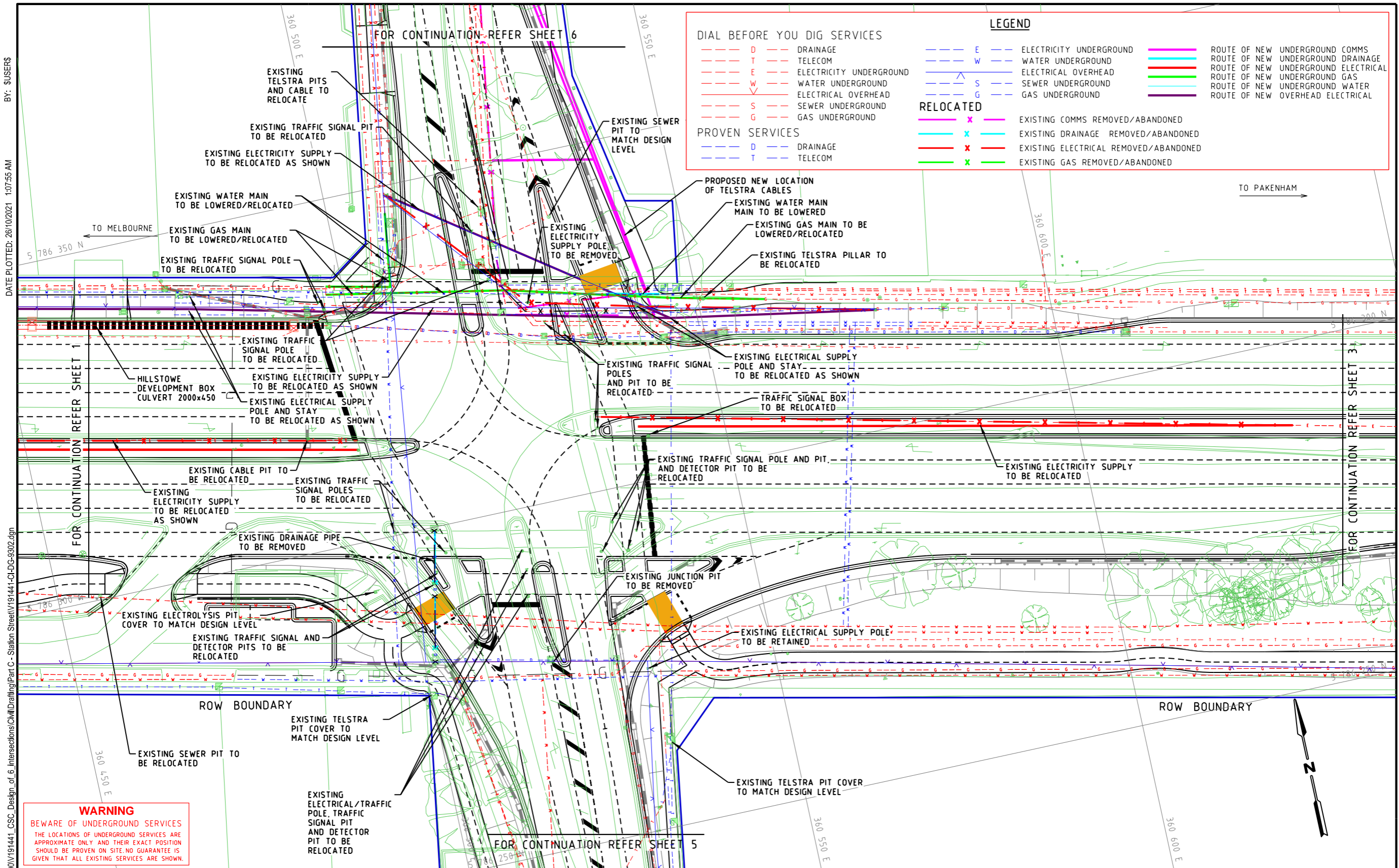


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Drawn	K.PELLOSIS	Client	CARDINIA SHIRE COUNCIL
Designed	J.PANUNCIALMAN	Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION
Checked	P.CHATTERLEY	Title	PIT SCHEDULE







BY: SUSERS  
 DATE PLOTTED: 26/10/2021 1:07:55 AM  
 CAD File: M:\2019\1001\_1500V191441\_CSC\_Design of 6 Intersections\Civil\Drafting\Part C - Station Street\191441-CI-DG-9302.dgn

**WARNING**  
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Rev	Date	Description	Drawn	Appr.
4	25.10.21	ISSUE FOR TENDER	RY	PC
3	07.09.21	DETAIL DESIGN ISSUE	KP	PC
2	16.08.21	ISSUE FOR INFORMATION	KP	PC
1	23.02.21	PRELIMINARY ISSUE	KP	PC

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**WARNING**  
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Drawn	K.PELLOSIS	Client	CARDINIA SHIRE COUNCIL
Designed	C.MENDOZA	Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION
Checked	P.CHATTERLEY	Title	SERVICE COORDINATION PLAN SHEET 2
Authorised	P.CHATTERLEY	Status	ISSUE FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION PURPOSES

Date	23.02.21	Scale	1:500	Size	A3
Drawing Number	V191441-CI-DG-9302	Revision	4		



BY: \$USERS

DATE PLOTTED: 25/10/2021 7:16:13 PM

CAD File: M:\2019\1001\_1500V191441\_CSC\_Design\_of\_6\_Intersections\Civil\Drawings\Part C - Station Street\191441-CI-DG-9303.dgn

**DIAL BEFORE YOU DIG SERVICES**

- - - - - D - - - - -	DRAINAGE	- - - - - E - - - - -	ELECTRICITY UNDERGROUND	- - - - -	ROUTE OF NEW UNDERGROUND COMMS
- - - - - T - - - - -	TELECOM	- - - - - W - - - - -	WATER UNDERGROUND	- - - - -	ROUTE OF NEW UNDERGROUND DRAINAGE
- - - - - E - - - - -	ELECTRICITY OVERHEAD	- - - - - S - - - - -	SEWER UNDERGROUND	- - - - -	ROUTE OF NEW UNDERGROUND ELECTRICAL
- - - - - W - - - - -	WATER OVERHEAD	- - - - - G - - - - -	GAS UNDERGROUND	- - - - -	ROUTE OF NEW UNDERGROUND GAS
- - - - - S - - - - -	SEWER OVERHEAD				
- - - - - G - - - - -	GAS OVERHEAD				

**PROVEN SERVICES**

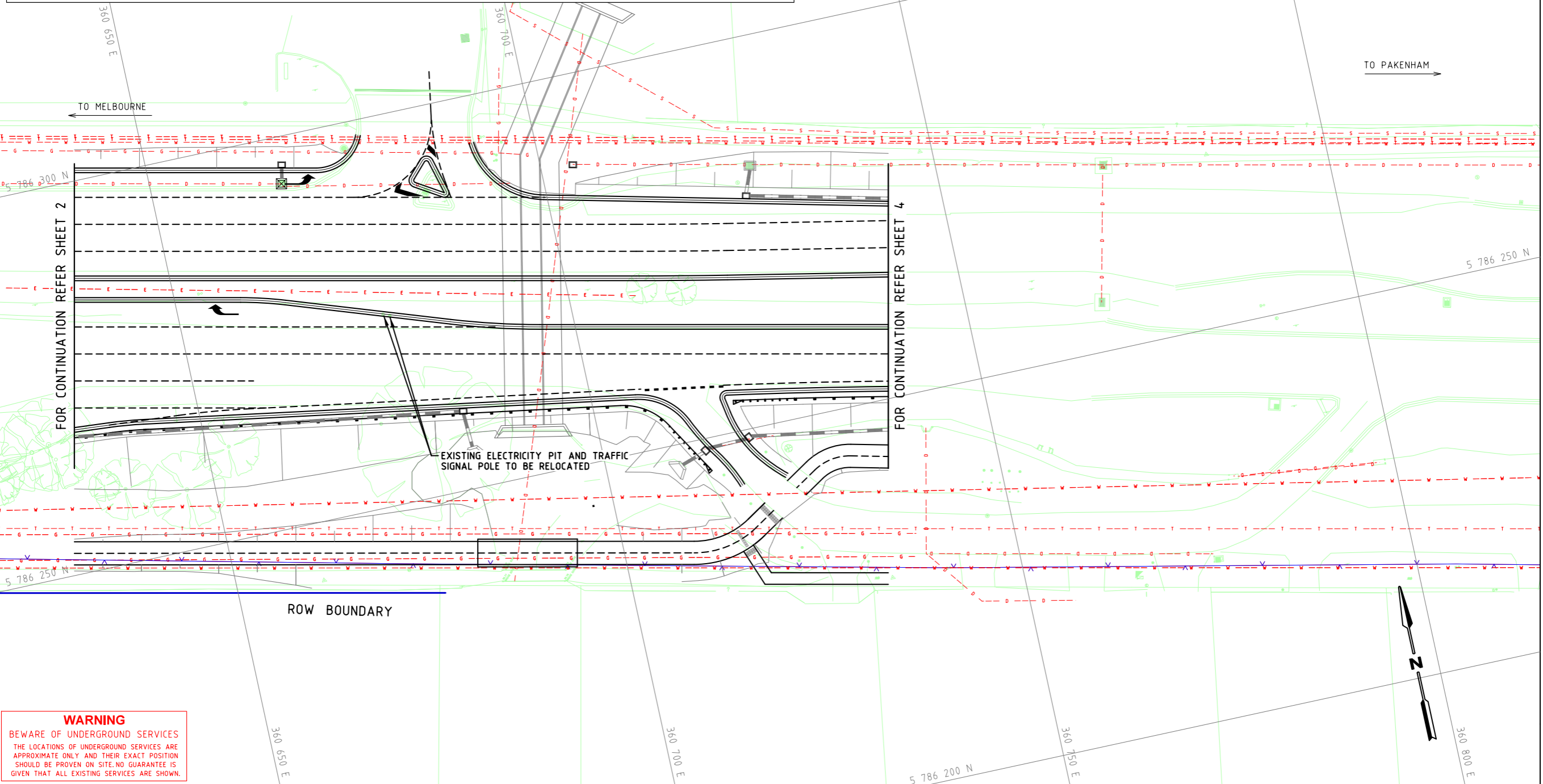
- - - - - D - - - - -	DRAINAGE
- - - - - T - - - - -	TELECOM

**LEGEND**

- - - - - E - - - - -	ELECTRICITY UNDERGROUND	- - - - -	EXISTING COMMS REMOVED/ABANDONED
- - - - - W - - - - -	WATER UNDERGROUND	- - - - - X - - - - -	EXISTING DRAINAGE REMOVED/ABANDONED
- - - - - S - - - - -	SEWER UNDERGROUND	- - - - - X - - - - -	EXISTING ELECTRICAL REMOVED/ABANDONED
- - - - - G - - - - -	GAS UNDERGROUND	- - - - - X - - - - -	EXISTING GAS REMOVED/ABANDONED

**RELOCATED**

- - - - - X - - - - -	EXISTING COMMS REMOVED/ABANDONED
- - - - - X - - - - -	EXISTING DRAINAGE REMOVED/ABANDONED
- - - - - X - - - - -	EXISTING ELECTRICAL REMOVED/ABANDONED
- - - - - X - - - - -	EXISTING GAS REMOVED/ABANDONED



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Rev	Date	Description	Drawn	Appr.
4	25.10.21	ISSUE FOR TENDER	RY	PC
3	07.09.21	DETAIL DESIGN ISSUE	KP	PC
2	16.08.21	ISSUE FOR INFORMATION	KP	PC
1	23.02.21	PRELIMINARY ISSUE	KP	PC

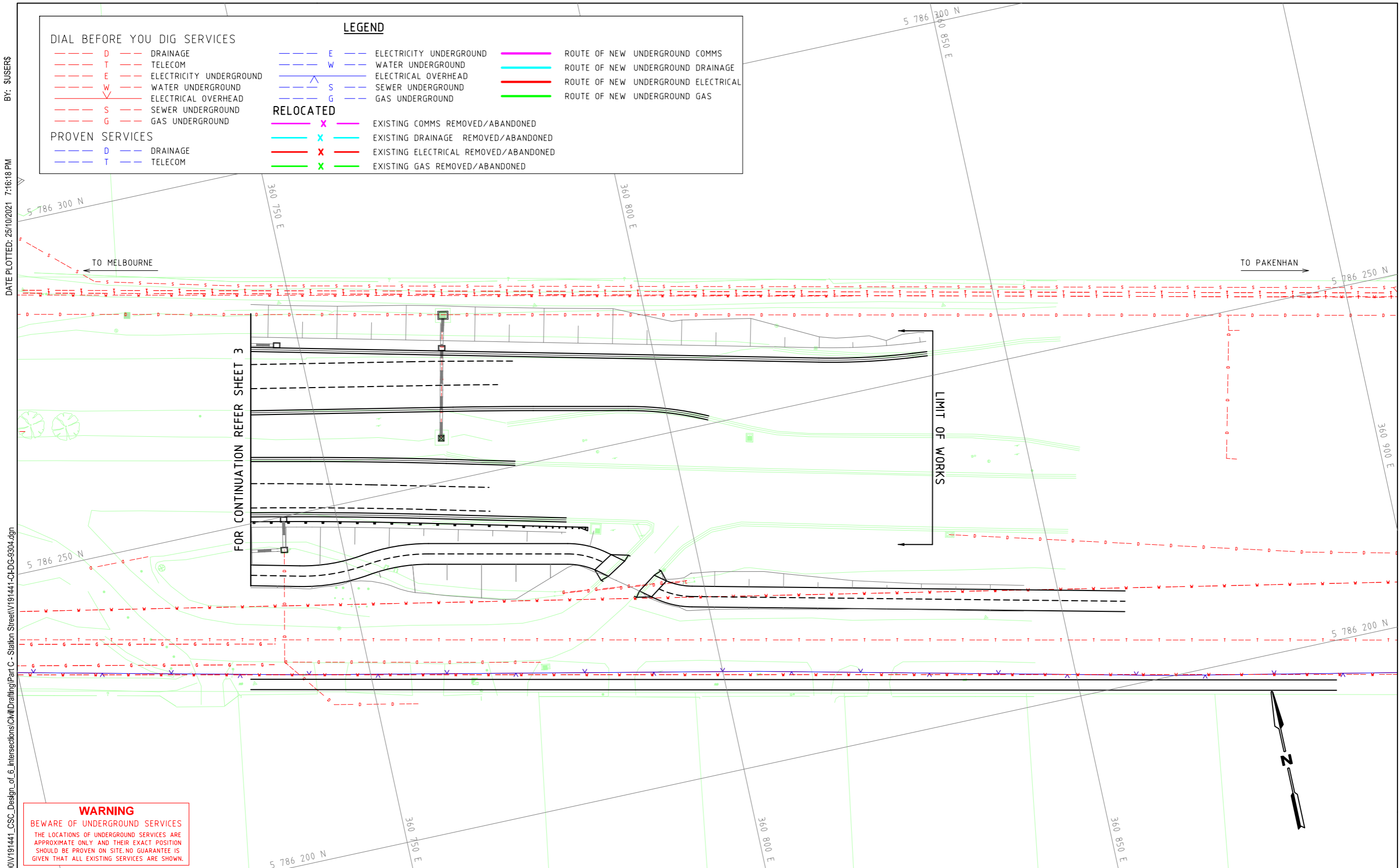
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0 2.5 5 10  
1:500 @ A3

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Drawn K.PELLOSIS	Client CARDINIA SHIRE COUNCIL	Status ISSUE FOR INFORMATION
Designed C.MENDOZA	Project CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION	NOT TO BE USED FOR CONSTRUCTION PURPOSES
Checked P.CHATTERLEY	Title SERVICE COORDINATION PLAN SHEET 3	Date 23.02.21
Authorised P.CHATTERLEY	Drawing Number V191441-CI-DG-9303	Scale 1:500
		Size A3
		Revision 4



**DIAL BEFORE YOU DIG SERVICES**

- - - D - - -	DRAINAGE	- - - E - - -	ELECTRICITY UNDERGROUND	- - - (Pink) - - -	ROUTE OF NEW UNDERGROUND COMMS
- - - T - - -	TELECOM	- - - W - - -	WATER UNDERGROUND	- - - (Cyan) - - -	ROUTE OF NEW UNDERGROUND DRAINAGE
- - - E - - -	ELECTRICITY UNDERGROUND	- - - (Blue) - - -	ELECTRICAL OVERHEAD	- - - (Red) - - -	ROUTE OF NEW UNDERGROUND ELECTRICAL
- - - W - - -	WATER UNDERGROUND	- - - S - - -	SEWER UNDERGROUND	- - - (Green) - - -	ROUTE OF NEW UNDERGROUND GAS
- - - (Blue) - - -	ELECTRICAL OVERHEAD				
- - - S - - -	SEWER UNDERGROUND				
- - - G - - -	GAS UNDERGROUND				

**PROVEN SERVICES**

- - - D - - -	DRAINAGE				
- - - T - - -	TELECOM				

**LEGEND**

- - - E - - -	ELECTRICITY UNDERGROUND	- - - (Pink) - - -	ROUTE OF NEW UNDERGROUND COMMS
- - - W - - -	WATER UNDERGROUND	- - - (Cyan) - - -	ROUTE OF NEW UNDERGROUND DRAINAGE
- - - (Blue) - - -	ELECTRICAL OVERHEAD	- - - (Red) - - -	ROUTE OF NEW UNDERGROUND ELECTRICAL
- - - S - - -	SEWER UNDERGROUND	- - - (Green) - - -	ROUTE OF NEW UNDERGROUND GAS
- - - G - - -	GAS UNDERGROUND		

**RELOCATED**

- - - X - - -	EXISTING COMMS REMOVED/ABANDONED
- - - X - - -	EXISTING DRAINAGE REMOVED/ABANDONED
- - - X - - -	EXISTING ELECTRICAL REMOVED/ABANDONED
- - - X - - -	EXISTING GAS REMOVED/ABANDONED

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**WARNING**  
BEWARE OF UNDERGROUND SERVICES  
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

Rev	Date	Description	Drawn	Appr.
4	25.10.21	ISSUE FOR TENDER	RY	PC
3	07.09.21	DETAIL DESIGN ISSUE	KP	PC
2	16.08.21	ISSUE FOR INFORMATION	KP	PC
1	23.02.21	PRELIMINARY ISSUE	KP	PC

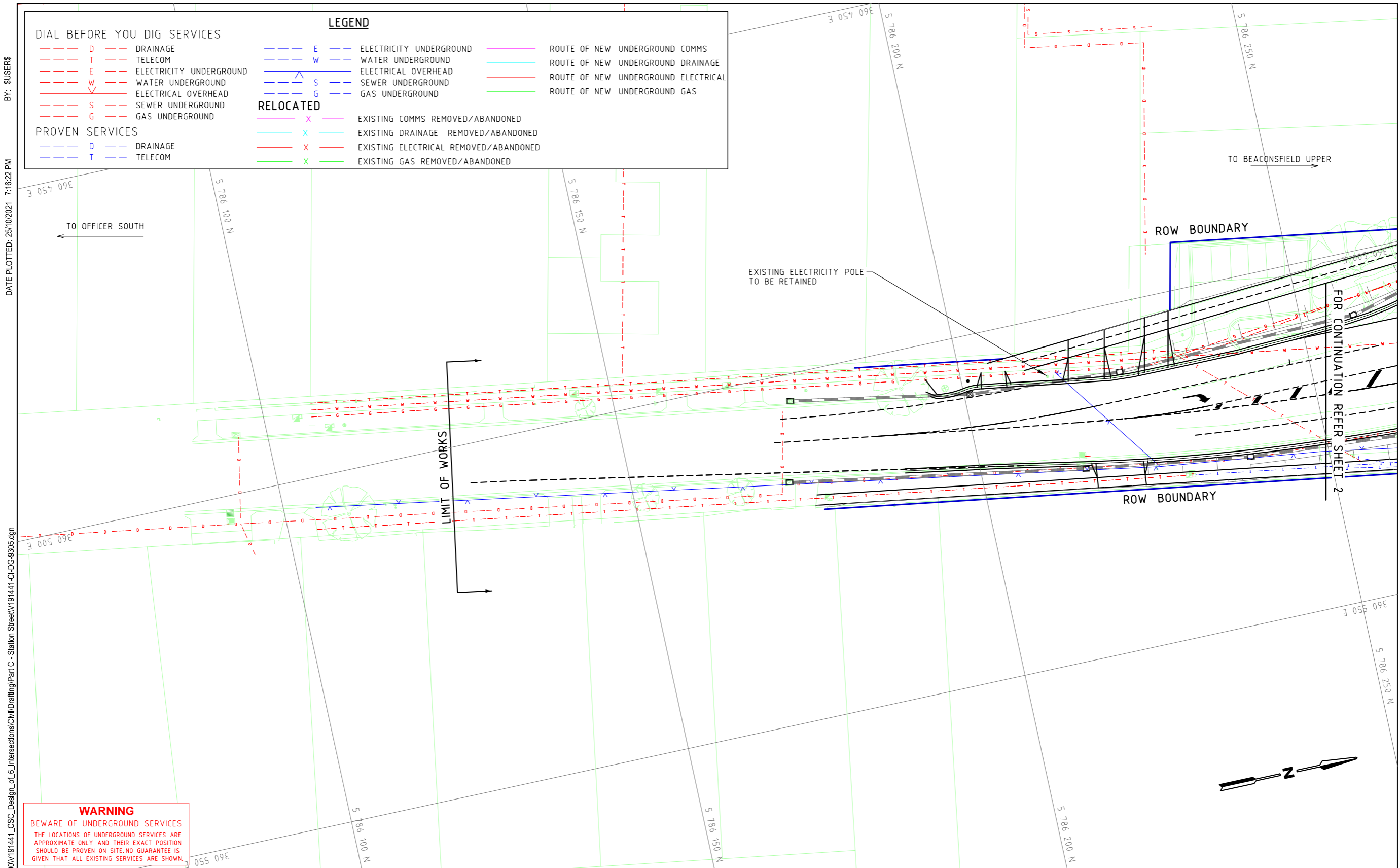
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0 2.5 5 10  
1:500 @ A3

**WARNING**  
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Drawn K.PELLOSIS	Client CARDINIA SHIRE COUNCIL	Status <b>ISSUE FOR INFORMATION</b> NOT TO BE USED FOR CONSTRUCTION PURPOSES
Designed C.MENDOZA	Project CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION	
Checked P.CHATTERLEY	Title SERVICE COORDINATION PLAN SHEET 4	Date 23.02.21
Authorised P.CHATTERLEY		Scale 1:500
		Size A3
		Drawing Number V191441-CI-DG-9304
		Revision 4



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DATE PLOTTED: 25/10/2021 7:16:22 PM

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**DIAL BEFORE YOU DIG SERVICES**

- D - DRAINAGE
- T - TELECOM
- E - ELECTRICITY UNDERGROUND
- W - WATER UNDERGROUND
- ∇ - ELECTRICAL OVERHEAD
- S - SEWER UNDERGROUND
- G - GAS UNDERGROUND

**PROVEN SERVICES**

- D - DRAINAGE
- T - TELECOM

**LEGEND**

- E - ELECTRICITY UNDERGROUND
- W - WATER UNDERGROUND
- ∇ - ELECTRICAL OVERHEAD
- S - SEWER UNDERGROUND
- G - GAS UNDERGROUND

**RELOCATED**

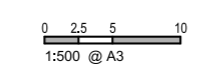
- X - EXISTING COMMS REMOVED/ABANDONED
- X - EXISTING DRAINAGE REMOVED/ABANDONED
- X - EXISTING ELECTRICAL REMOVED/ABANDONED
- X - EXISTING GAS REMOVED/ABANDONED

- (Pink) - ROUTE OF NEW UNDERGROUND COMMS
- (Cyan) - ROUTE OF NEW UNDERGROUND DRAINAGE
- (Red) - ROUTE OF NEW UNDERGROUND ELECTRICAL
- (Green) - ROUTE OF NEW UNDERGROUND GAS

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3	07.09.21	DETAIL DESIGN ISSUE	KP	PC
2	16.08.21	ISSUE FOR INFORMATION	KP	PC
1	23.02.21	PRELIMINARY ISSUE	KP	PC

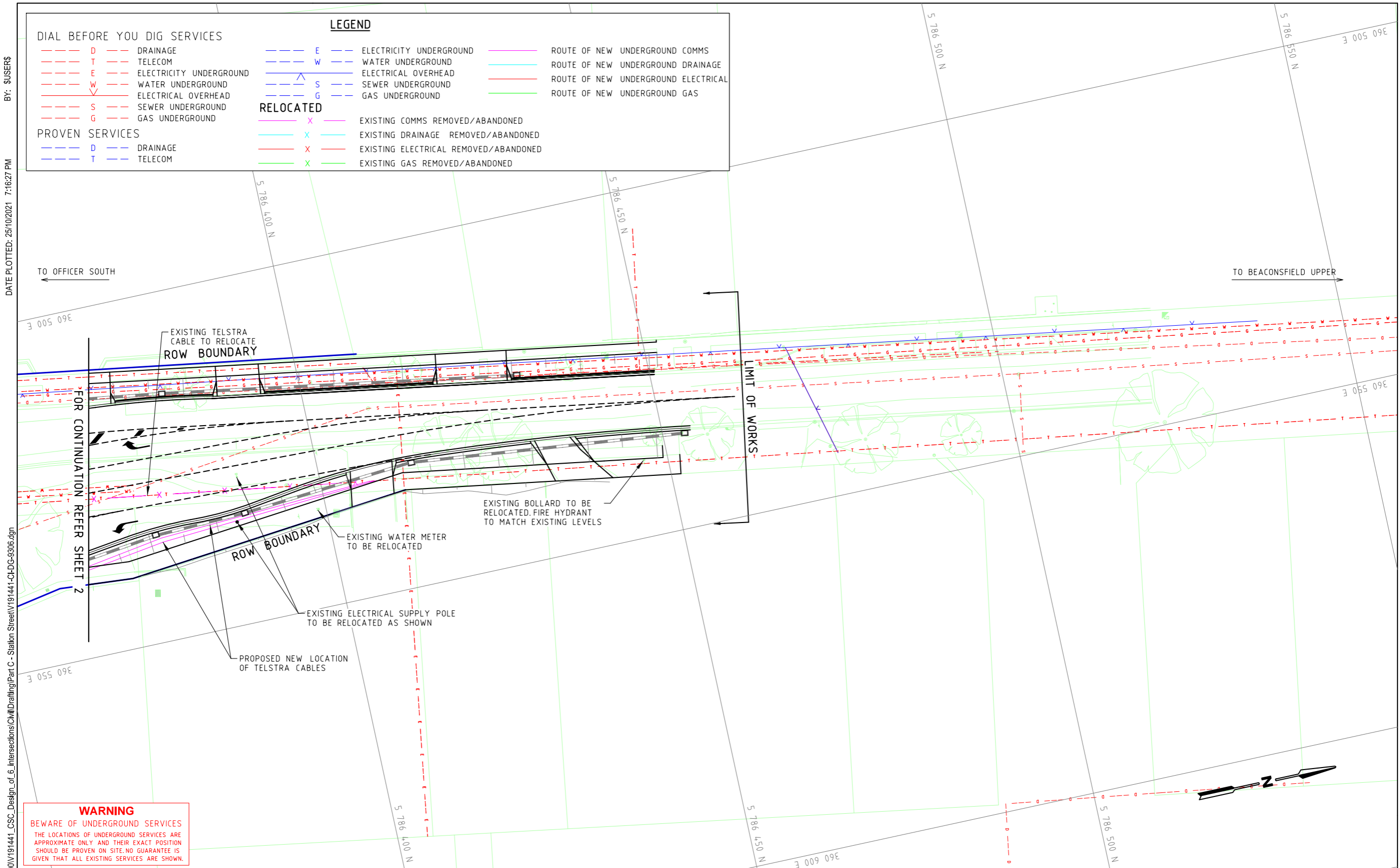
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Email: victoria@cardno.com.au Web: www.cardno.com.au/victoria

Drawn K.PELLOSIS	Client CARDINIA SHIRE COUNCIL	Status ISSUE FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION PURPOSES
Designed C.MENDOZA	Project CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION	Date 23.02.21
Checked P.CHATTERLEY	Title SERVICE COORDINATION PLAN SHEET 5	Scale 1:500
Authorised P.CHATTERLEY	Drawing Number V191441-CI-DG-9305	Size A3
		Revision 4



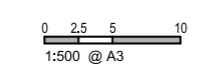
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Rev	Date	Description	Drawn	Appr.
4	25.10.21	ISSUE FOR TENDER	RY	PC
3	07.09.21	DETAIL DESIGN ISSUE	KP	PC
2	16.08.21	ISSUE FOR INFORMATION	KP	PC
1	23.02.21	PRELIMINARY ISSUE	KP	PC

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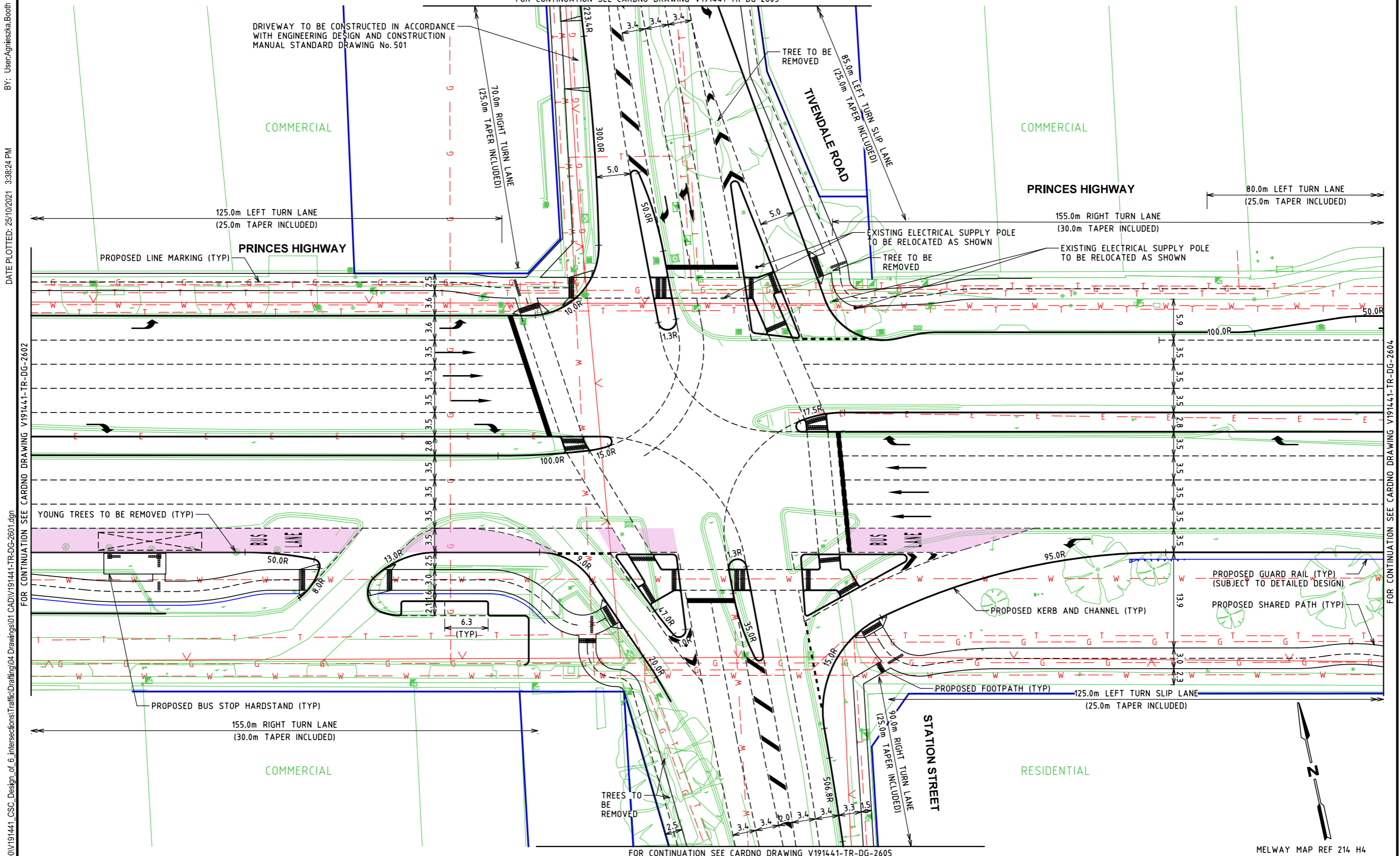


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Drawn	K.PELLOSIS	Client	CARDINIA SHIRE COUNCIL
Designed	C.MENDOZA	Project	CSC PART C - STATION STREET STATION STREET & PRINCES HIGHWAY INTERSECTION
Checked	P.CHATTERLEY	Title	SERVICE COORDINATION PLAN SHEET 6
Authorised	P.CHATTERLEY	Status	ISSUE FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION PURPOSES
		Date	23.02.21
		Scale	1:500
		Size	A3
		Drawing Number	V191441-CI-DG-9306
		Revision	4





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 BY: User: Agnieszka.Booth

Rev	Date	Description	Drawn	Appr.
8	25.10.2021	DoT COMMENTS	AB	PC
7	02.08.2021	DoT COMMENTS	NB	PC
6	22.12.2020	RSA COMMENTS	EC	PC
5	21.10.2020	COUNCIL COMMENTS	EC	PC
4	12.10.2020	COUNCIL AND DoT COMMENTS	EC	PC
3	14.08.2020	VICROADS COMMENTS	AB	PC
2	29.06.2020	COUNCIL COMMENTS	EC	PC
1	05.06.2020	ISSUED FOR INFORMATION	EC	PC

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 1:500 @ A3

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2. ALL DIMENSIONS ARE TO THE FACE OF KERB AND CHANNEL UNLD.
3. DECLARED STATE HIGHWAY - PRINCES HIGHWAY (SPEED ZONE 80KM/H) LOCAL ROAD - TIVENDALE ROAD (SPEED ZONE 60KM/H) STATION STREET (SPEED ZONE 60KM/H)
4. INSTALL ALL SIGNS AND LINE MARKS IN ACCORDANCE WITH AS 1742 AND RELEVANT VICROADS SUPPLEMENTS AND REMOVE ALL REDUNDANT SIGNS.
5. INSTALL R.A.P.'S AND REMOVE ANY REDUNDANT MARKERS.

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Drawn	E. COOK
Designed	E. COOK
Checked	S. MCKENZIE
Authorised	P. CHATTERLEY

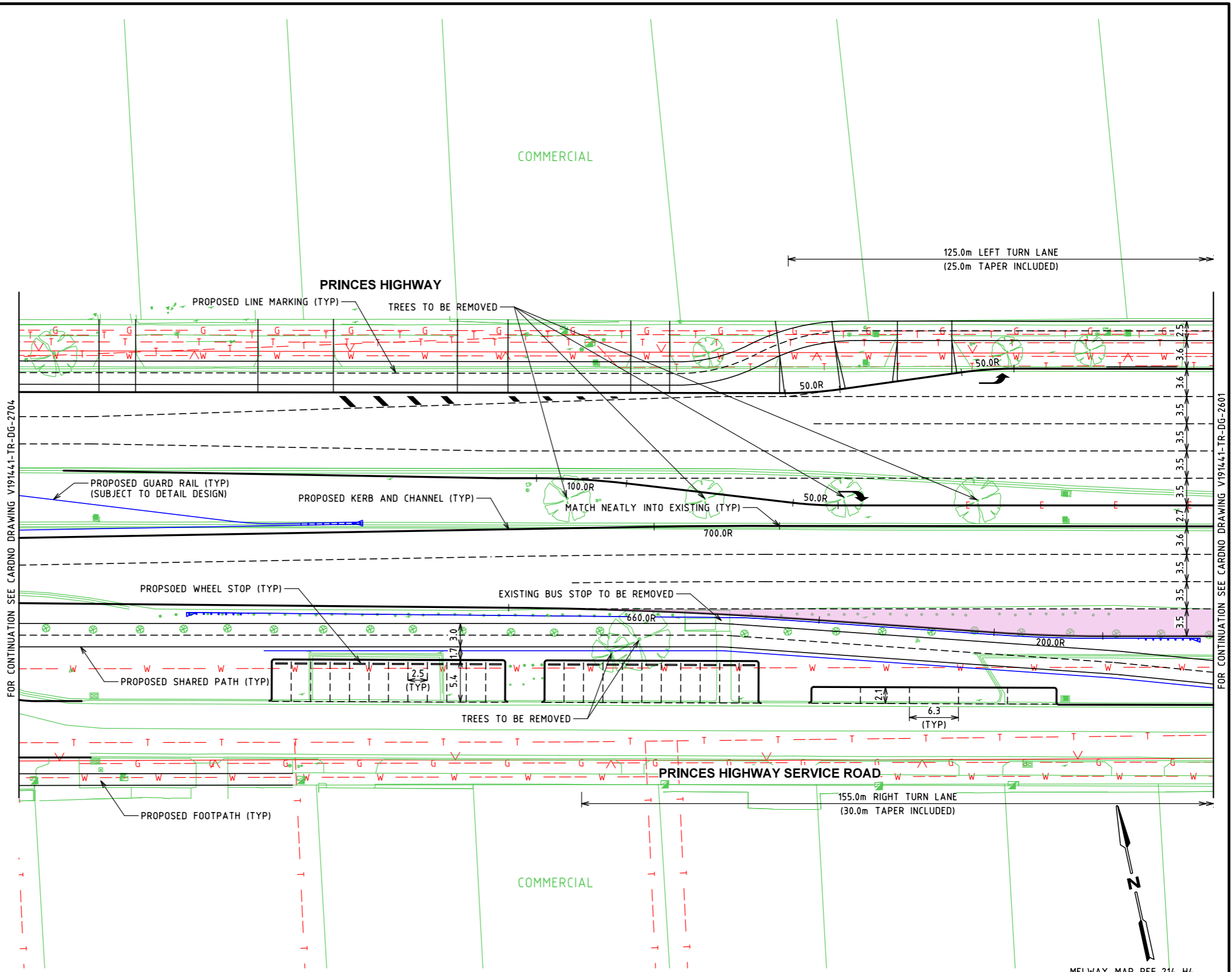
Client: CARDINIA SHIRE COUNCIL  
 Project: CSC STATION STREET PRINCES HIGHWAY AND STATION STREET, OFFICER CARDINIA SHIRE  
 Title: FUNCTIONAL LAYOUT PLAN

Status	<b>TENDER ISSUE</b>		
	NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	05.06.2020	Scale	1:500
Size	A3	Revision	8
Drawing Number	V191441-TR-DG-2601		

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DATE PLOTTED: 25/10/2021 3:41:11 PM

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FOR CONTINUATION SEE CARDNO DRAWING V191441-TR-DG-2704

FOR CONTINUATION SEE CARDNO DRAWING V191441-TR-DG-2601

Rev	Date	Description	Drawn	Appr.
8	25.10.2021	DoT COMMENTS	AB	PC
7	02.08.2021	DoT COMMENTS	NB	PC
6	22.12.2020	RSA COMMENTS	EC	PC
5	21.10.2020	COUNCIL COMMENTS	EC	PC
4	12.10.2020	COUNCIL AND DoT COMMENTS	EC	PC
3	14.08.2020	VICROADS COMMENTS	AB	PC
2	29.06.2020	COUNCIL COMMENTS	EC	PC
1	05.06.2020	ISSUED FOR INFORMATION	EC	PC

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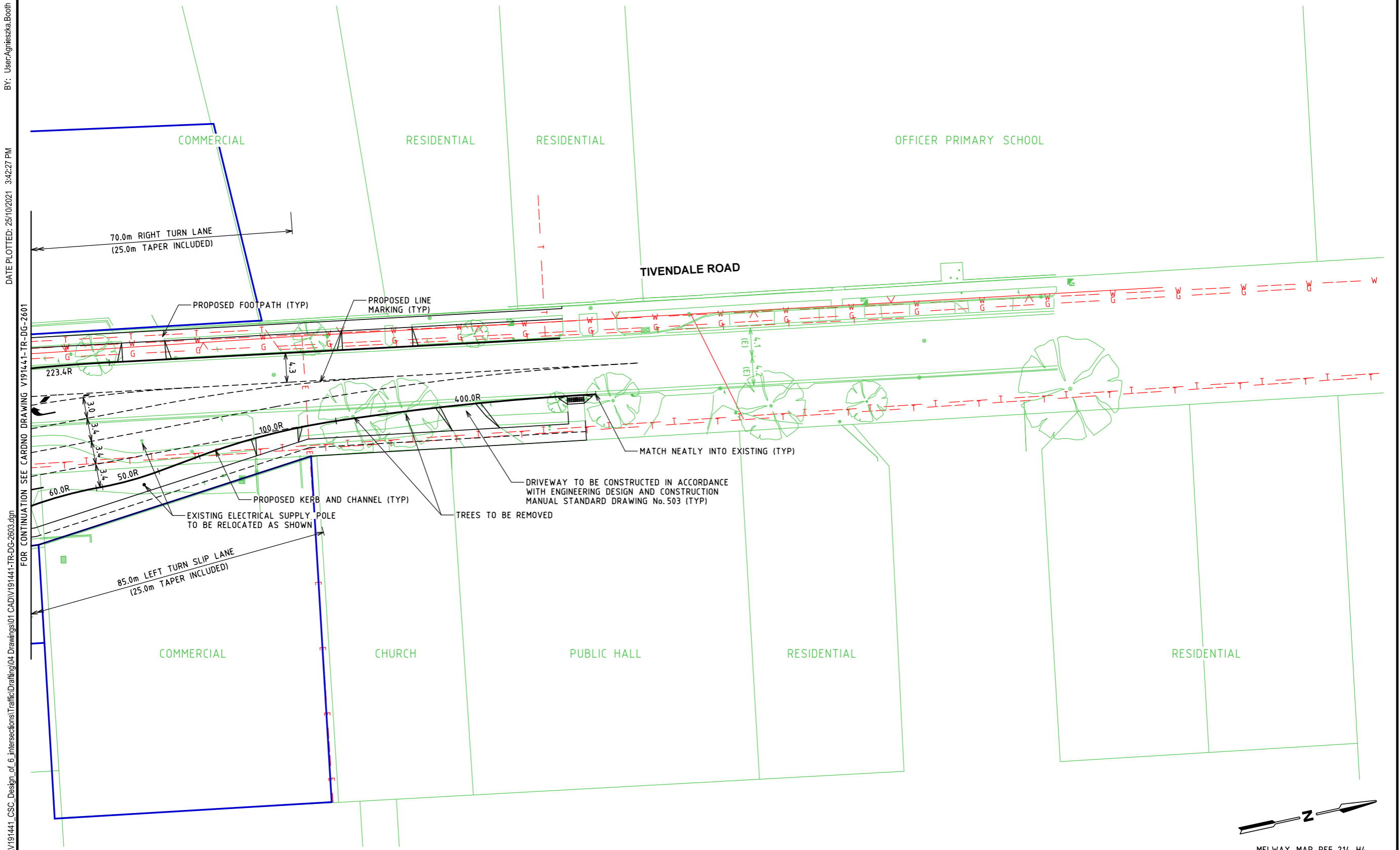
1. BASE INFORMATION SUPPLIED BY CARDNO (SURVEY) REF No. 20788-01-SU-PL-20-1000-1010.dwg
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Drawn	E. COOK
Designed	E. COOK
Checked	S. MCKENZIE
Authorised	P. CHATTERLEY

Client	CARDINIA SHIRE COUNCIL
Project	CSC STATION STREET PRINCES HIGHWAY AND STATION STREET, OFFICER CARDINIA SHIRE
Title	FUNCTIONAL LAYOUT PLAN

Status	<b>TENDER ISSUE</b>		
	NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	05.06.2020	Scale	1:500
Size	A3	Revision	8
Drawing Number	V191441-TR-DG-2602		



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 FOR CONTINUATION SEE CARDNO DRAWING V191441-TR-DG-2601

Rev	Date	Description	Drawn	Appr.
8	25.10.2021	DoT COMMENTS	AB	PC
7	02.08.2021	DoT COMMENTS	NB	PC
6	22.12.2020	RSA COMMENTS	EC	PC
5	21.10.2020	COUNCIL COMMENTS	EC	PC
4	12.10.2020	COUNCIL AND DoT COMMENTS	EC	PC
3	14.08.2020	VICROADS COMMENTS	AB	PC
2	29.06.2020	COUNCIL COMMENTS	EC	PC
1	05.06.2020	ISSUED FOR INFORMATION	EC	PC

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4. INSTALL ALL SIGNS AND LINE MARK IN ACCORDANCE WITH AS 1742 AND RELEVANT VICROADS SUPPLEMENTS AND REMOVE ALL REDUNDANT SIGNS.
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Drawn	E. COOK
Designed	E. COOK
Checked	S. MCKENZIE
Authorised	P. CHATTERLEY

Client	CARDINIA SHIRE COUNCIL
Project	CSC STATION STREET PRINCES HIGHWAY AND STATION STREET, OFFICER CARDINIA SHIRE
Title	FUNCTIONAL LAYOUT PLAN

Status	<b>TENDER ISSUE</b>		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Date	05.06.2020	Scale	1:500
Size	A3	Revision	8
Drawing Number	V191441-TR-DG-2603		



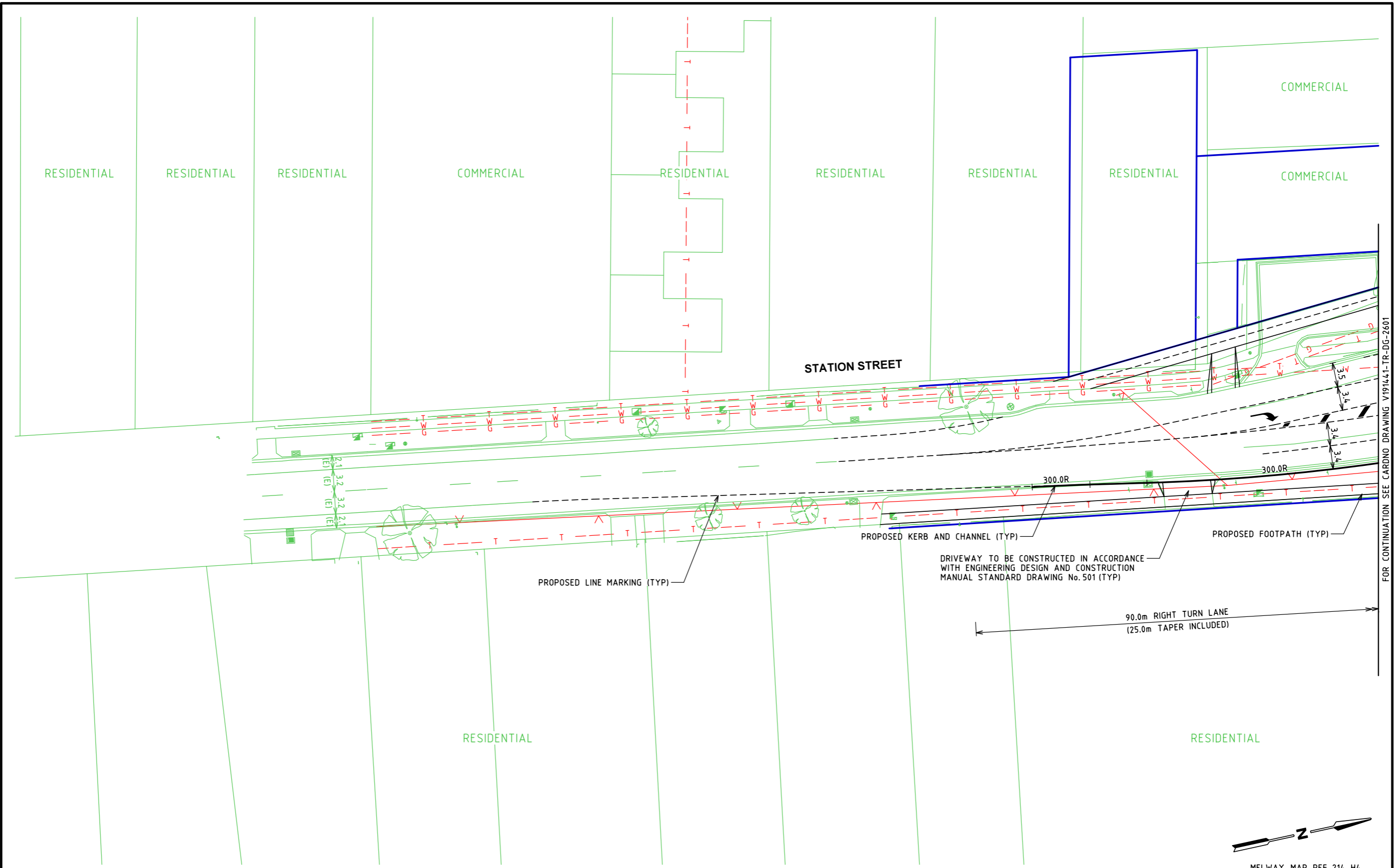




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FOR CONTINUATION SEE CARDNO DRAWING V191441-TR-DG-2601



MELWAY MAP REF 214 H4

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Rev	Date	Description	Drawn	Appr.																																																																																		
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Date	05.06.2020	Scale	1:500																																																																																			
Drawing Number	V191441-TR-DG-2605	Size	A3																																																																																			
		Revision	8																																																																																			

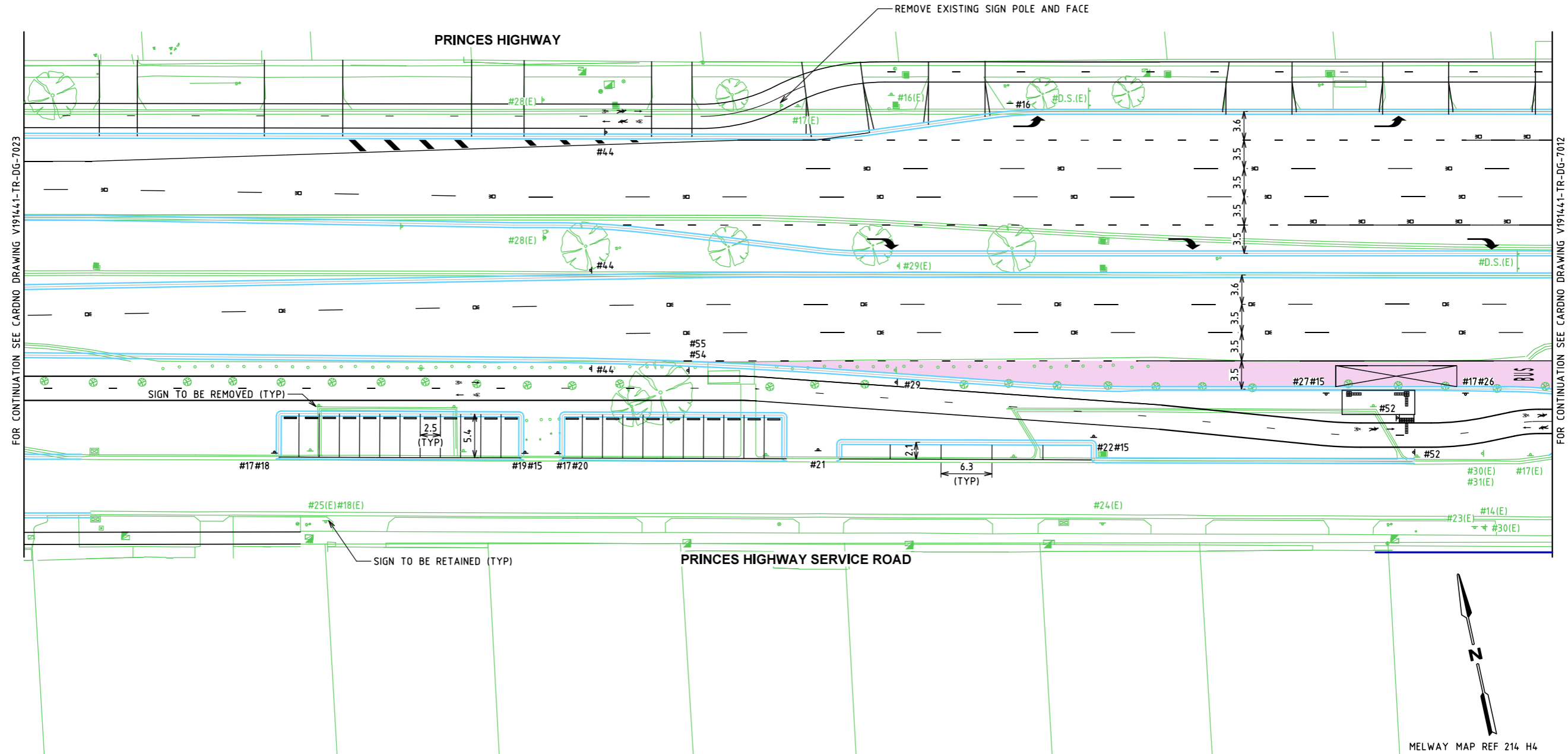
BY: User: Agnieszka.Booth

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### SIGN SCHEDULE

#2		R1-2	#14		R2-2(R)	#15		R5-35-1(R)	#16		R5-35-1(LR)	#17		R5-35-1(L)	#18		R5-16(R)	#19		R5-16(L)	#20		R5-4(R)	#21		R5-4(LR)
#22		R5-4(L)	#23		R5-4(R)	#24		R5-4(LR)	#25		R5-4(L)	#26		R5-20(R)	#27		R5-20(L)	#28		W3-V101	#29		R4-1-80	#30		R4-1-40
#31		R2-17	#32		R8-2	#44		G9-16	#52		R8-1	#54		R7-4	#55		R7-1-1									



FOR CONTINUATION SEE CARDNO DRAWING V191441-TR-DG-7023

FOR CONTINUATION SEE CARDNO DRAWING V191441-TR-DG-7012

Rev	Date	Description	Drawn	Appr.
5	25.10.2021	DoT COMMENTS	AB	PC
4	20.08.2021	DoT COMMENTS	AB	PC
3	22.12.2020	RSA COMMENTS	EC	PC
2	13.11.2020	COUNCIL AND DoT COMMENTS	EC	PC
1	16.07.2020	ISSUED FOR INFORMATION	EC	PC

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5. ALL SIGNS ARE TO BE REMOVED UNLD.
6. INSTALL R.R.P.'S AND REMOVE ANY REDUNDANT MARKERS.

**Cardno**  
 Shaping the Future

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Drawn	E. COOK
Designed	E. COOK
Checked	S. MCKENZIE
Authorised	P. CHATTERLEY

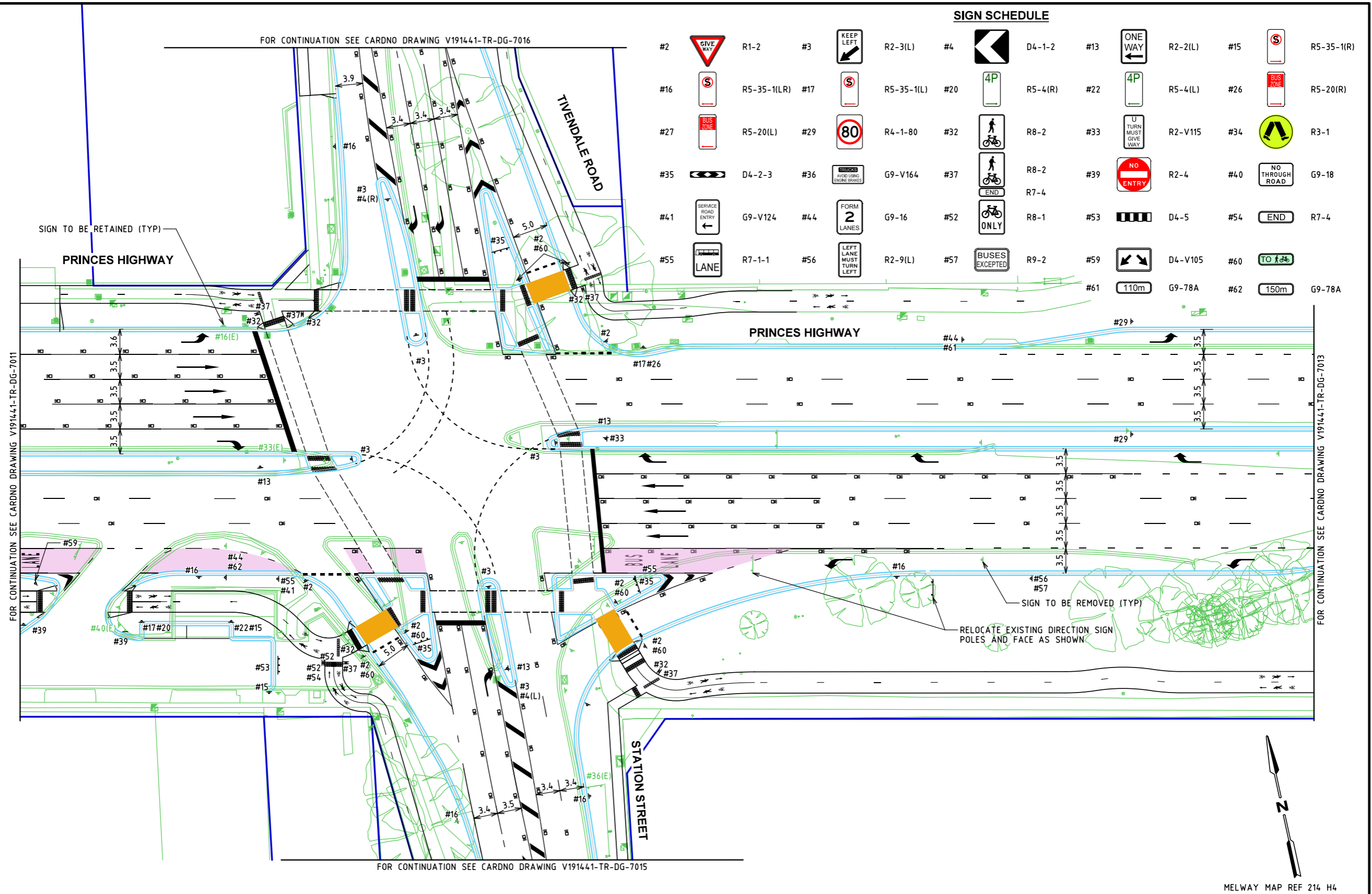
Client: **CARDINIA SHIRE COUNCIL**

Project: CSC STATION STREET PRINCES HIGHWAY AND STATION STREET, OFFICER CARDINIA SHIRE

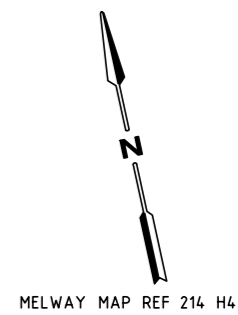
Title: SIGNAGE AND PAVEMENT MARKING PLAN

Status	<b>TENDER ISSUE</b>		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Date	16.07.2020	Scale	1:500
Size	A3	Revision	5
Drawing Number	V191441-TR-DG-7011		

BY: User: Agnieszka.Booth  
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FOR CONTINUATION SEE CARDNO DRAWING V191441-TR-DG-7011  
 FOR CONTINUATION SEE CARDNO DRAWING V191441-TR-DG-7013  
 FOR CONTINUATION SEE CARDNO DRAWING V191441-TR-DG-7015



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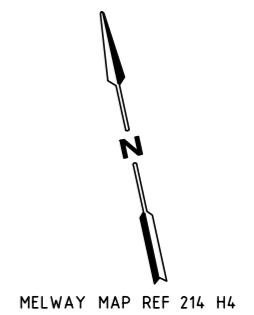
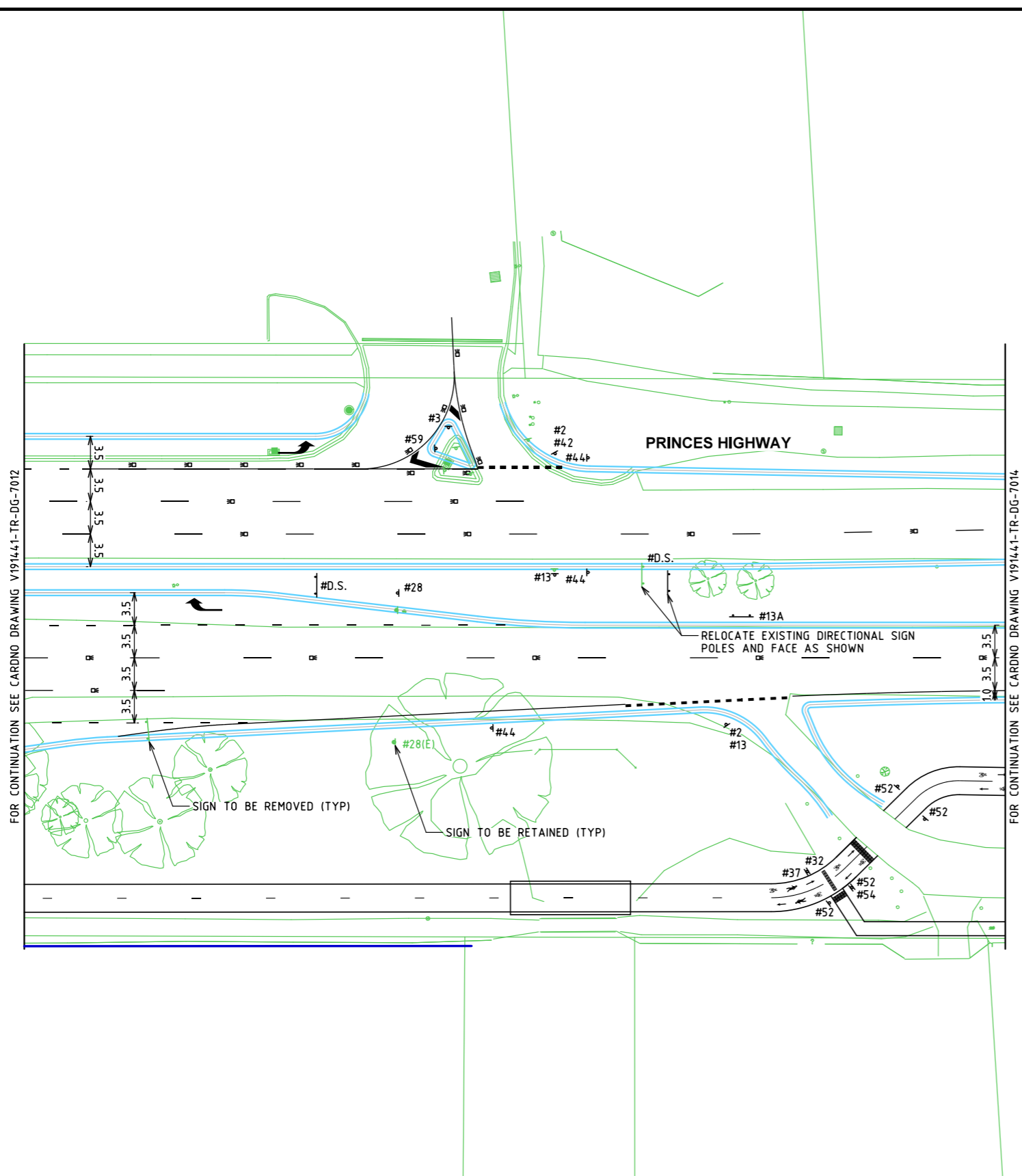
BY: User:Agnieszka.Booth

DATE PLOTTED: 25/10/2021 3:30:20 PM

CAD File: M:\2019\1001\_1500\191441\_CSC\_Design\_of\_6\_intersections\Traffic\Drawings\04 Drawings\01 CAD\191441-TR-DG-7013.dgn

**SIGN SCHEDULE**

#2		R1-2	#3		R2-3(L)	#13		R2-2(L)	#13A		R2-2(L)
#28		W3-V101	#32		R8-2	#37		R8-2	#42		R2-14(L)
#44		G9-16	#52		R8-1	#54		R7-4	#59		D4-V105



Rev	Date	Description	Drawn	Appr.
5	25.10.2021	DoT COMMENTS	AB	PC
4	20.08.2021	DoT COMMENTS	AB	PC
3	22.12.2020	RSA COMMENTS	EC	PC
2	13.11.2020	COUNCIL AND DoT COMMENTS	EC	PC
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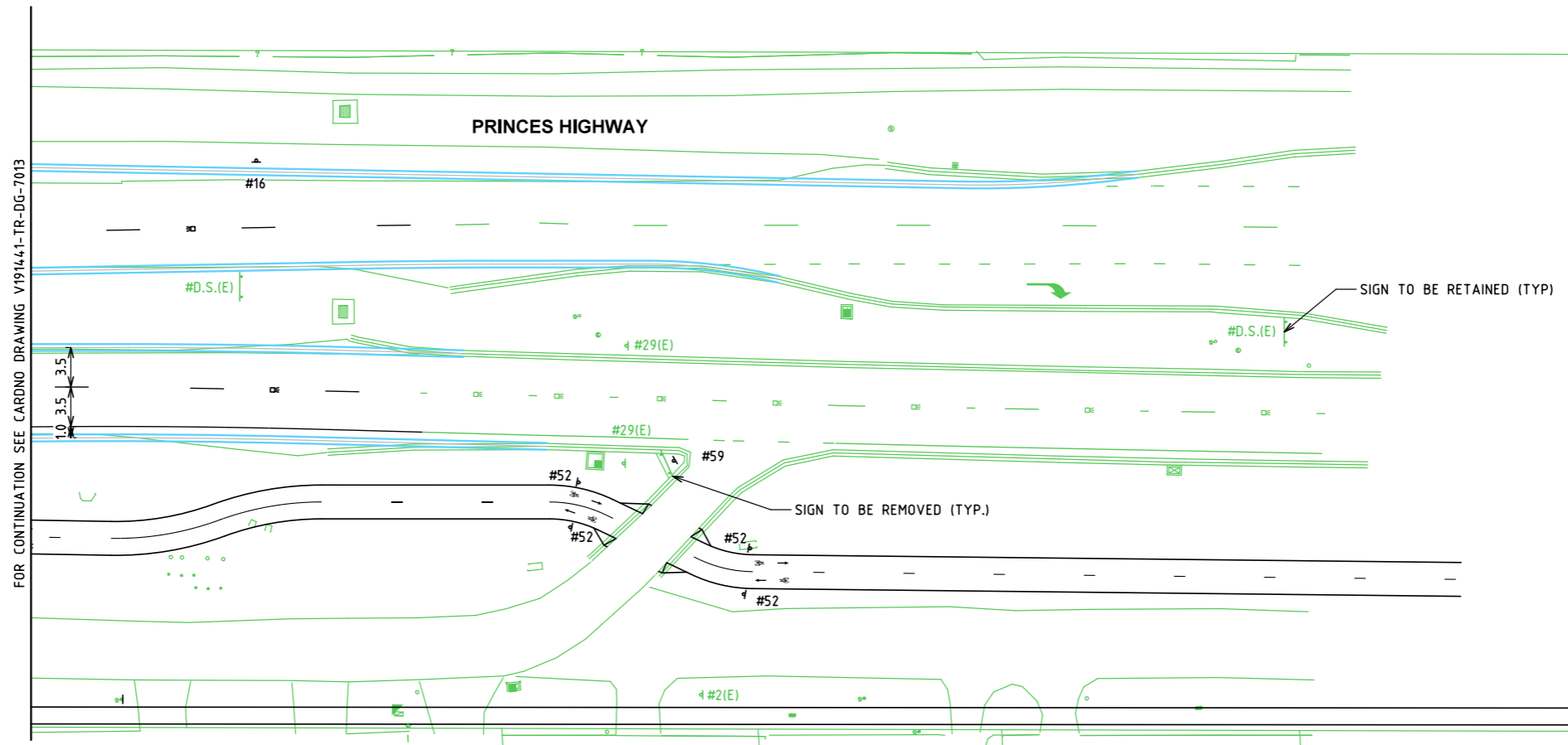
Drawn	E. COOK
Designed	E. COOK
Checked	S. MCKENZIE
Authorised	P. CHATTERLEY

Client	CARDINIA SHIRE COUNCIL
Project	CSC STATION STREET PRINCES HIGHWAY AND STATION STREET, OFFICER CARDINIA SHIRE
Title	SIGNAGE AND PAVEMENT MARKING PLAN

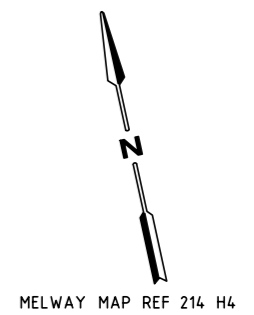
Status	<b>TENDER ISSUE</b>		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Date	16.07.2020	Scale	1:500
Size	A3		Revision
Drawing Number	V191441-TR-DG-7013		5



**SIGN SCHEDULE**



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CAD File: M:\2019\1001\_1500V191441\_CSC\_Design\_of\_6\_intersections\Traffic\Drawings\01 CADIV191441-TR-DG-7014.dgn

Rev	Date	Description	Drawn	Appr.
5	25.10.2021	DoT COMMENTS	AB	PC
4	20.08.2021	DoT COMMENTS	AB	PC
3	22.12.2020	RSA COMMENTS	EC	PC
2	13.11.2020	COUNCIL AND DoT COMMENTS	EC	PC
1	16.07.2020	ISSUED FOR INFORMATION	EC	PC

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Drawn	E. COOK
Designed	E. COOK
Checked	S. MCKENZIE
Authorised	P. CHATTERLEY

Client	CARDINIA SHIRE COUNCIL
Project	CSC STATION STREET PRINCES HIGHWAY AND STATION STREET, OFFICER CARDINIA SHIRE
Title	SIGNAGE AND PAVEMENT MARKING PLAN

Status	<b>TENDER ISSUE</b>		
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Date	16.07.2020	Scale	1:500
Size	A3	Revision	5
Drawing Number	V191441-TR-DG-7014		

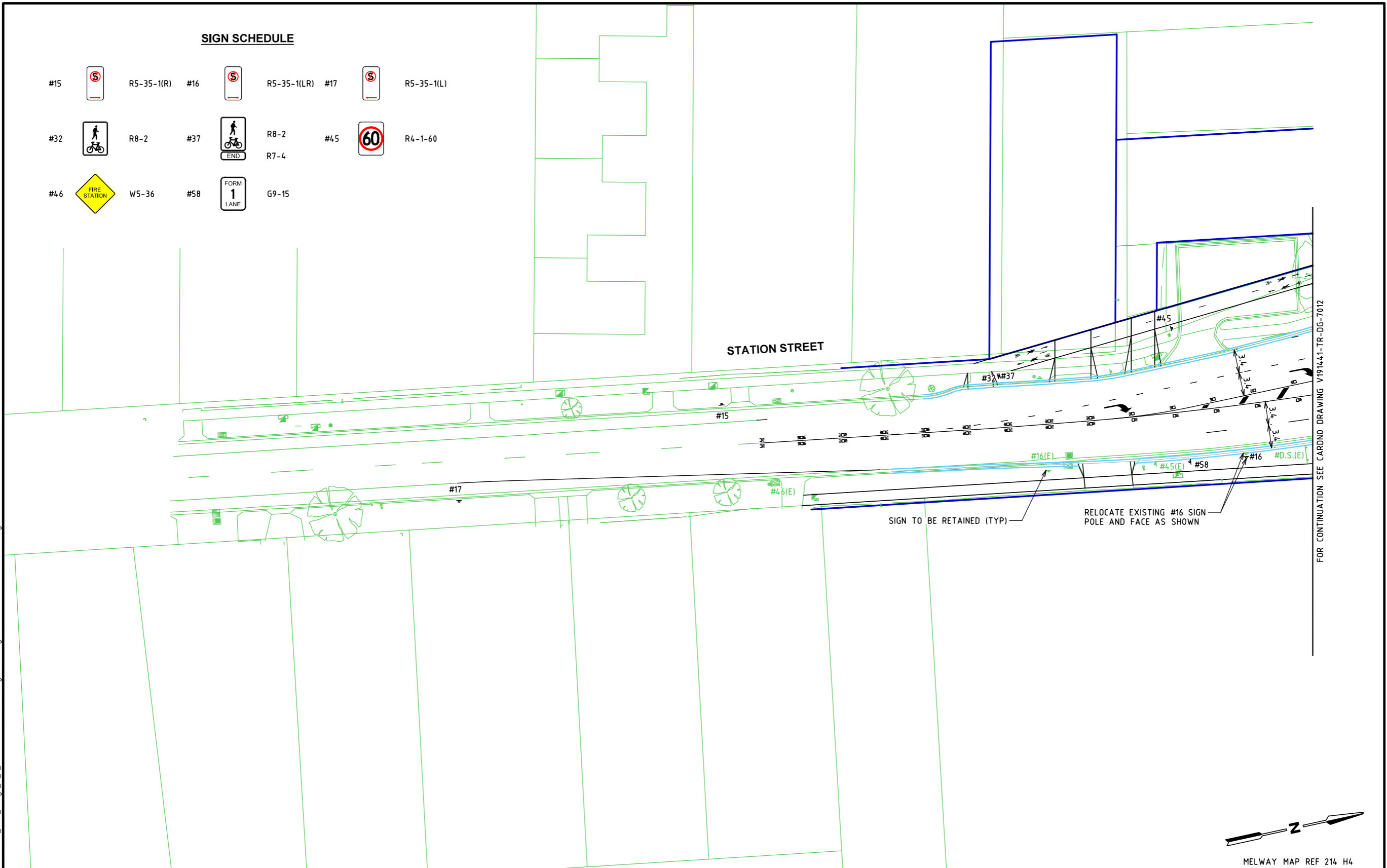
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**SIGN SCHEDULE**

#15		R5-35-1(R)	#16		R5-35-1(LR)	#17		R5-35-1(L)
#32		R8-2	#37		R7-4	#45		R4-1-60
#46		W5-36	#58		G9-15			



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Rev	Date	Description	Drawn	Appr.
5	25.10.2021	DoT COMMENTS	AB	PC
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Drawn	E. COOK
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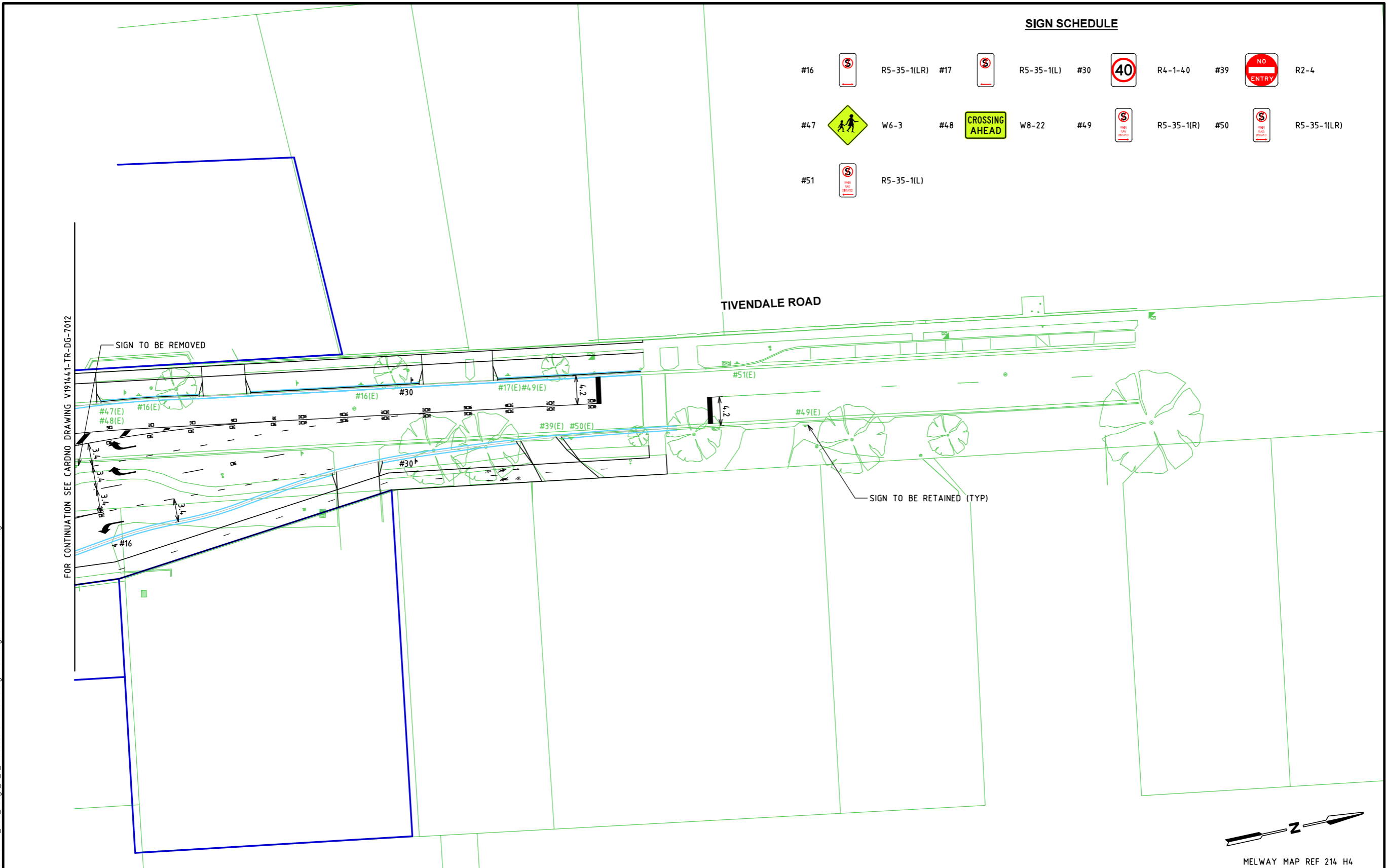
Client	CARDINIA SHIRE COUNCIL
Project	CSC STATION STREET PRINCES HIGHWAY AND STATION STREET, OFFICER CARDINIA SHIRE
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Status	<b>TENDER ISSUE</b>		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Date	16.07.2020	Scale	1:500
Drawing Number	V191441-TR-DG-7015	Size	A3
Revision			5

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Rev	Date	Description	Drawn	Appr.
5	25.10.2021	DoT COMMENTS	AB	PC
4	20.08.2021	DoT COMMENTS	AB	PC
3	22.12.2020	RSA COMMENTS	EC	PC
2	13.11.2020	COUNCIL AND DoT COMMENTS	EC	PC
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Title	SIGNAGE AND PAVEMENT MARKING PLAN

Status	<b>TENDER ISSUE</b>		
	NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	16.07.2020	Scale	1:500
Size	A3		Revision
Drawing Number	V191441-TR-DG-7016		5



**REMODEL NOTES:**

**A. SIGNAL CONTRACTOR**

1. PEDESTAL 1 - INSTALL PEDESTAL BASE AND RELOCATE EXISTING 2B FROM REDUNDANT PEDESTAL E1 PEDESTAL AS SHOWN.  
- RELOCATE EXISTING 3-ASPECT PEDESTAL LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E1 AS SHOWN.  
- INSTALL B LANTERN AND R LANTERN AS SHOWN.
2. PEDESTAL 2 - INSTALL PEDESTAL BASE AND RELOCATE EXISTING 2B FROM REDUNDANT PEDESTAL E2 PEDESTAL AS SHOWN.  
- RELOCATE EXISTING PEDESTAL LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E2 AS SHOWN.  
- INSTALL NEW B LANTERN AND L LANTERN AS SHOWN.
3. PEDESTAL 3 - INSTALL PEDESTAL BASE AND RELOCATE EXISTING JUMA FROM REDUNDANT PEDESTAL E4 PEDESTAL AS SHOWN.  
- RELOCATE EXISTING S LANTERNS AND PEDESTRIAN LANTERNS REDUNDANT FROM PEDESTAL E4 AS SHOWN.  
- RELOCATE EXISTING PEDESTRIAN PUSH BUTTON FROM PEDESTAL E3 AS SHOWN.
4. PEDESTAL 4 - INSTALL NEW MA PEDESTAL AS SHOWN.  
- RELOCATE EXISTING 3-ASPECT LANTERN, R LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E5 AS SHOWN.  
- RELOCATE EXISTING 3-ASPECT LANTERN FROM REDUNDANT PEDESTAL E2 AS SHOWN.
5. PEDESTAL 5 - INSTALL PEDESTAL BASE AND RELOCATE EXISTING 2B PEDESTAL FROM REDUNDANT PEDESTAL E6 AS SHOWN.  
- RELOCATE EXISTING 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E6 AS SHOWN.  
- INSTALL B LANTERN AS SHOWN.
6. PEDESTAL 6 - INSTALL PEDESTAL BASE AND RELOCATE EXISTING JUP FROM REDUNDANT PEDESTAL E7 AS SHOWN.  
- RELOCATE EXISTING S LANTERN, PEDESTRIAN LANTERNS AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E7 AS SHOWN.  
- RELOCATE EXISTING S LANTERN FROM REDUNDANT PEDESTAL E1 AS SHOWN.
7. PEDESTAL 7 - INSTALL NEW B LANTERN AS SHOWN.  
- RELOCATE EXISTING 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E8 AS SHOWN.  
- INSTALL NEW B LANTERN AND R LANTERN AS SHOWN.
8. PEDESTAL 8 - INSTALL PEDESTAL BASE AND RELOCATE EXISTING 2B PEDESTAL FROM REDUNDANT PEDESTAL E9 AS SHOWN.  
- RELOCATE EXISTING 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E9 AS SHOWN.  
- INSTALL NEW B LANTERN AND LANTERN AS SHOWN.
9. PEDESTAL 9 - INSTALL PEDESTAL BASE AND RELOCATE EXISTING JUMA PEDESTAL FROM REDUNDANT PEDESTAL E10 AS SHOWN.  
- RELOCATE EXISTING S LANTERNS, PEDESTRIAN LANTERNS AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E10 AS SHOWN.  
- INSTALL NEW S LANTERN AND B LANTERN AS SHOWN.
10. PEDESTAL 10 - INSTALL NEW MA PEDESTAL AS SHOWN.  
- RELOCATE EXISTING R LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E11 AS SHOWN.  
- INSTALL NEW B LANTERN, S LANTERN AND Z LANTERN AS SHOWN.
11. PEDESTAL 11 - INSTALL NEW JUP PEDESTAL AS SHOWN.  
- RELOCATE EXISTING GWTP LANTERN FROM REDUNDANT PEDESTAL E4 AS SHOWN.
12. PEDESTAL 12 - INSTALL NEW JUP PEDESTAL AS SHOWN.  
- INSTALL NEW B LANTERNS, S LANTERNS AND PEDESTRIAN PUSH BUTTON AS SHOWN.
13. REMOVE ALL REDUNDANT ABOVE-GROUND HARDWARE.
14. INSTALL 2/100 CONDUITS, 9 CONDUIT PITS AND EXTEND EXISTING CONDUIT LOCATION TO SUIT NEW CONDUIT PIT LOCATION.
15. INSTALL 8 NO. DETECTOR PITS ON NORTH, SOUTH, EAST AND WEST APPROACH AND 1/50 CONDUIT TO CONDUIT PIT.
16. INSTALL DETECTOR LOOP BE1, BE2, E1, E2, E3, E4, E5, N1, N2, N3, N4, W1, W2, W3, W4, W5, S1, S2 AND S3 AND ASSOCIATED FEEDER CABLES.
17. RE-CABLE SITE AS REQUIRED.
18. CONTRACTOR TO SUPPLY ALL THE ABOVE HARDWARE USING LED LANTERNS.
19. ARRANGE FOR THE INSTALLATION OF THR NEW PROM.

**B. CIVIL CONTRACTOR**

1. CONSTRUCT ROAD WORKS AS SHOWN.
2. CONSTRUCT 5 ODA COMPLIANT PRAM CROSSINGS IN ACCORDANCE WITH AS1428.
3. CONSTRUCT 7 CUT-THROUGH WALKWAYS AS SHOWN IN ACCORDANCE WITH AS1428.
4. SUPPLY AND INSTALLATION OF PUBLIC LIGHTING AND/OR THE REMOVAL OF ANY REDUNDANT POLES OR EQUIPMENT. SEE GENERAL NOTES.
5. CONSTRUCT (SUPPLY ALL MATERIALS AND LABOUR) PEDESTRIAN FOOTPATH AS SHOWN.
6. SUPPLY AND INSTALL PARKING SIGN POLE AND/OR FACE AT P1, P2 AND P3.
7. LINEMARKING AS SHOWN AND REMOVE ANY REDUNDANT MARKINGS.
8. SUPPLY AND INSTALL R.R.P.M.'S AS SHOWN AND REMOVE REDUNDANT MARKERS.
9. SUPPLY AND INSTALL ROAD SIGNS WHERE SHOWN AND REMOVE REDUNDANT SIGNS.
10. ALL VESIPTS AND ASSOCIATED CONDUITS TO BE INSTALLED BY POWER COMPANY APPROVED PRE-QUALIFIED ELECTRICAL CONTRACTORS.

**C. DoT - VICROADS**

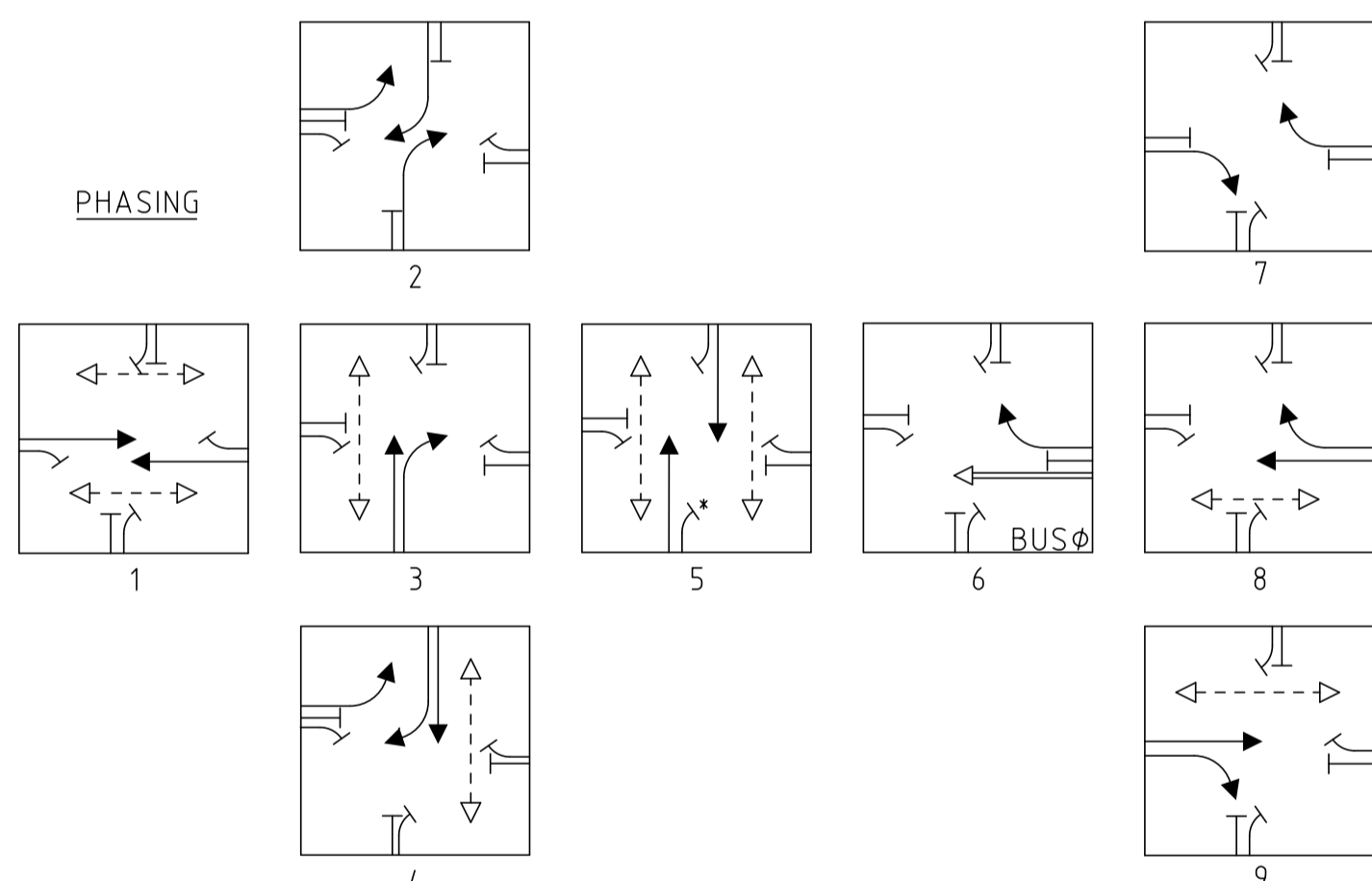
**(i) METROPOLITAN SOUTH EAST REGION**

1. SUPPLY NEW PROM

**(ii) SIGNAL SERVICES - EAST**

1. REPROGRAM NEW CONTROLLER FOR MODIFIED PHASING.

**PHASING**



**SIGN SCHEDULE**

#2		R1-2	#3		R2-3(L)	#4		D4-1-2	#13		R2-2(L)	#15		R8-2
#16		R2-V115	#18		D4-2-3	#19		G9-V164	#20		R8-2	#21		R2-4
#22		G9-18	#23		G9-V124	#24		R8-1	#25		D4-5	#26		R7-1-1
#27		#28		G9-16	#29		G9-78A							

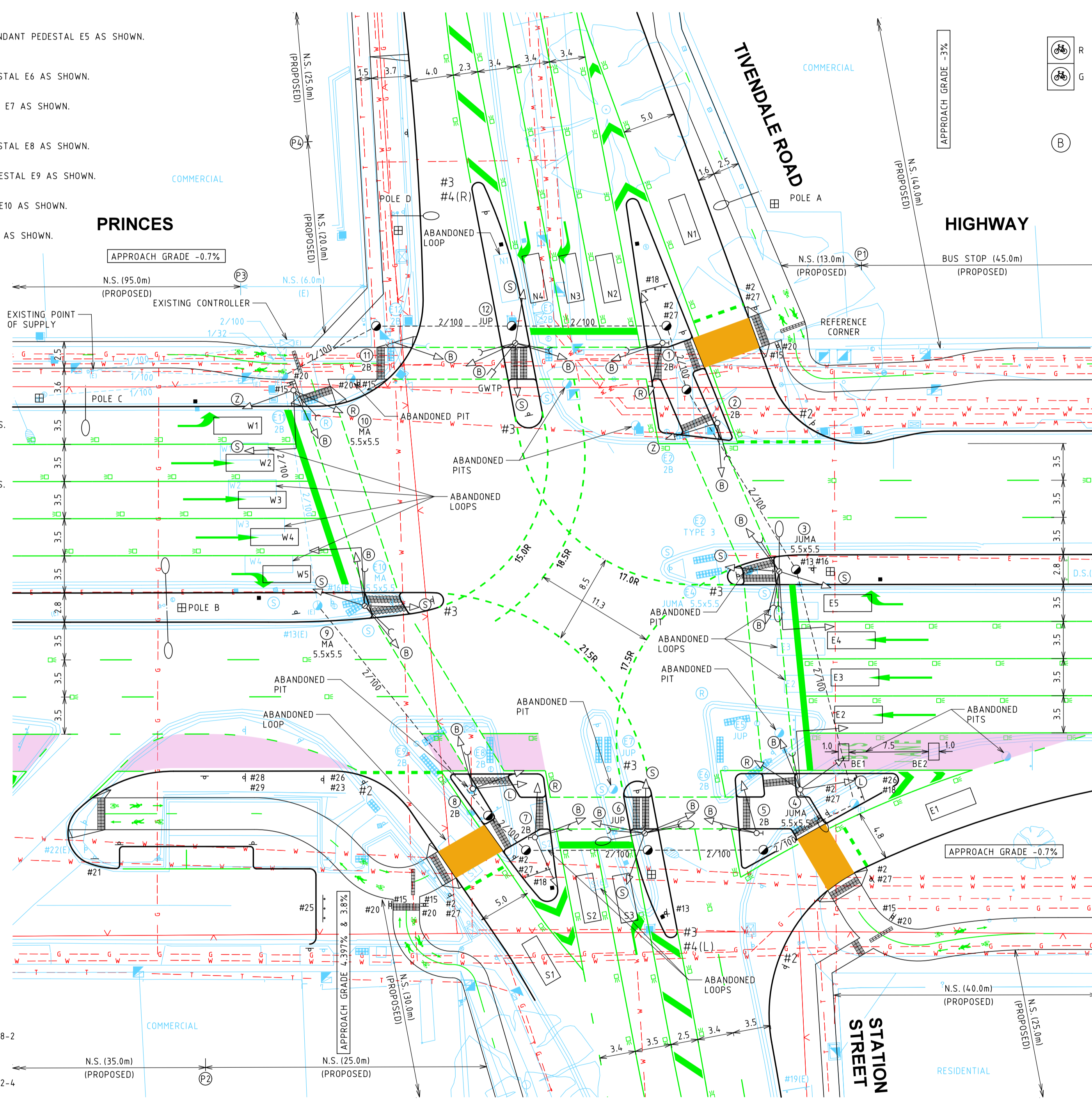
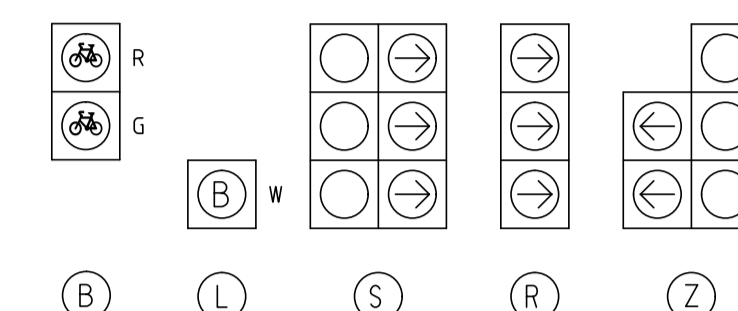
**LEGEND**


**GENERAL NOTES**

1. BASE INFORMATION SUPPLIED BY CARDNO (SURVEY) REF No. 20788-01-SU-FL-2D-1000-1010.dwg
2. ALL DIMENSIONS ARE TO THE FACE OF KERB AND CHANNEL U.N.O.
3. DECLARED STATE HIGHWAY - PRINCES HIGHWAY (SPEED ZONE 80KM/H) LOCAL ROAD - TIVENDALE ROAD (SPEED ZONE 60KM/H) - STATION STREET (SPEED ZONE 60KM/H)
4. PUBLIC LIGHTING - PEDESTAL 3 TO BE 11m JUMA, MOUNTING HEIGHT 12.5m, OUTREACH 4.5m, WITH 2x175w LED LUMINAIRE. - PEDESTAL 4 TO BE 11m JUMA, MOUNTING HEIGHT 12.5m, OUTREACH 4.5m, WITH 2x175w LED LUMINAIRE. - PEDESTAL 6 TO BE 11m JUP, MOUNTING HEIGHT 12.5m, OUTREACH 4.5m, WITH 2x175w LED LUMINAIRE. - POLE A, TO BE 11m SLIP BASE, MOUNTING HEIGHT 12.5m, OUTREACH 4.5m, WITH 1x175w LED LUMINAIRE. - POLE B TO BE 11m SLIP BASE, MOUNTING HEIGHT 12.5m, OUTREACH 4.5m, WITH 2x175w LED LUMINAIRE. - POLE C AND D TO BE 11m SLIP BASE, MOUNTING HEIGHT 12.5m, OUTREACH 4.5m, WITH 1x150w LED LUMINAIRE.

ISSUE	APP'D	DATE	AMENDMENT
A	AE	5.1.2007	PREPARE TO STOP SIGN DISTANCE
B		MAR 21	UPGRADING INTERSECTION (CARDNO)

**LANTERNS**



**Cardno**  
Shaping the Future  
ABN: 47 106 610 913  
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Date	18.03.2021
CARDNO Drawn	N. BATRA
CARDNO Checked	V. OSADCHY
CARDNO No.	V191441-TR-DG-7201
CARDNO Revision	4

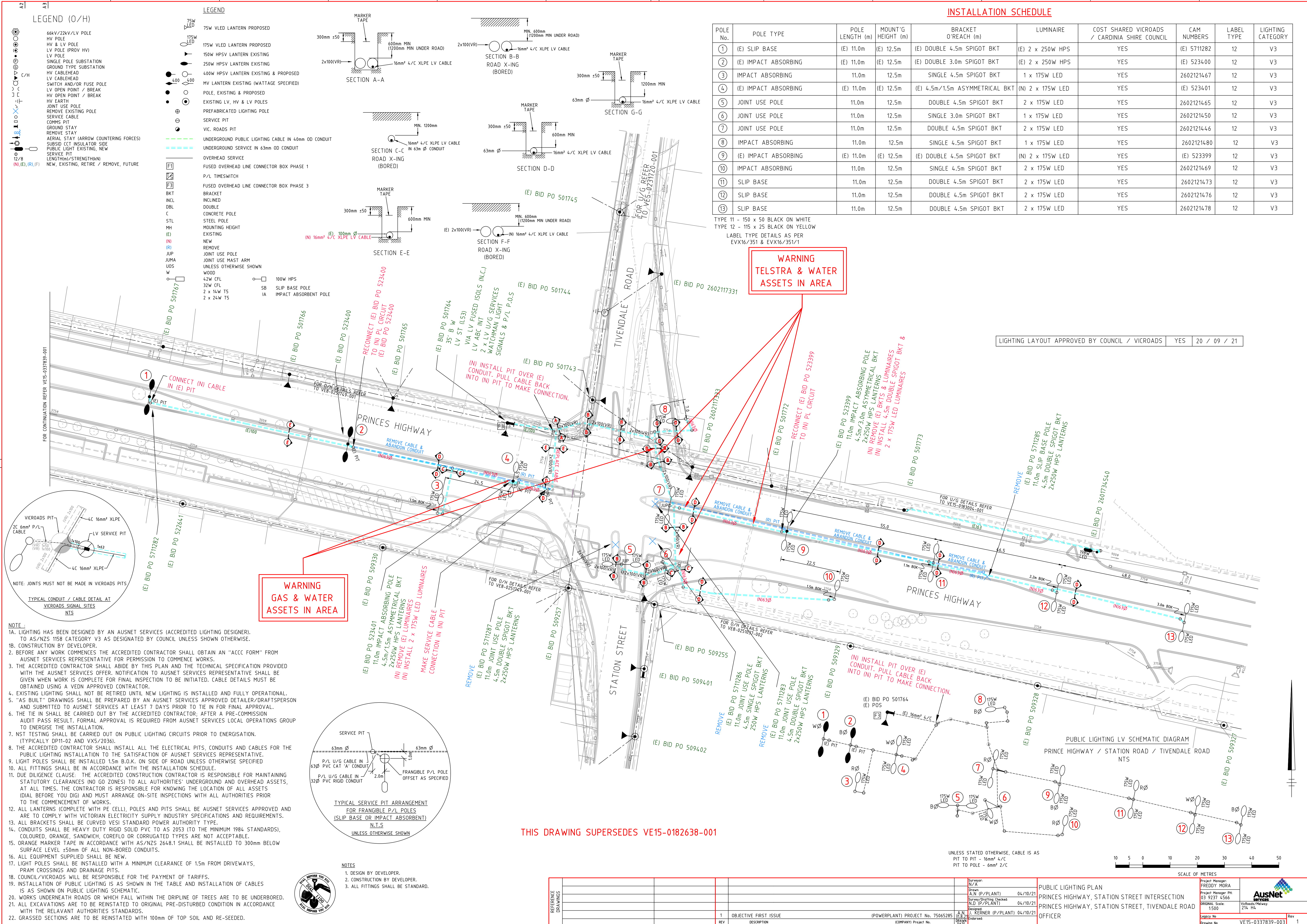
**NOTE**  
PROPOSED SIGNAL HARDWARE LOCATIONS ARE INDICATIVE ONLY  
The actual locations of proposed pedestals, conduit pits, conduits, etc. shall be determined on site at pre-installation meeting (Hold Point).

**WARNING**  
BEWARE OF UNDERGROUND SERVICES  
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

25/10/2021 01:48:19 PM \$FILES

	<b>PRINCES HIGHWAY / STATION STREET / TIVENDALE ROAD</b> CARDINIA SHIRE TRAFFIC SIGNAL PLAN	
	DESIGNED N. BATRA (CARDNO) MAR '21	APPROVED
CAT: METRO SOUTH EAST PROJ: TRAFFIC FILE: 545246.dgn	SCALE OF METRES HOR 0 5 10 VER 0	FILE NO. TM060-CAR-610 SITE NO. 610 SHEET NO. 1 OF 1 DRAWING NO. 545246 ISSUE B





**LEGEND (O/H)**

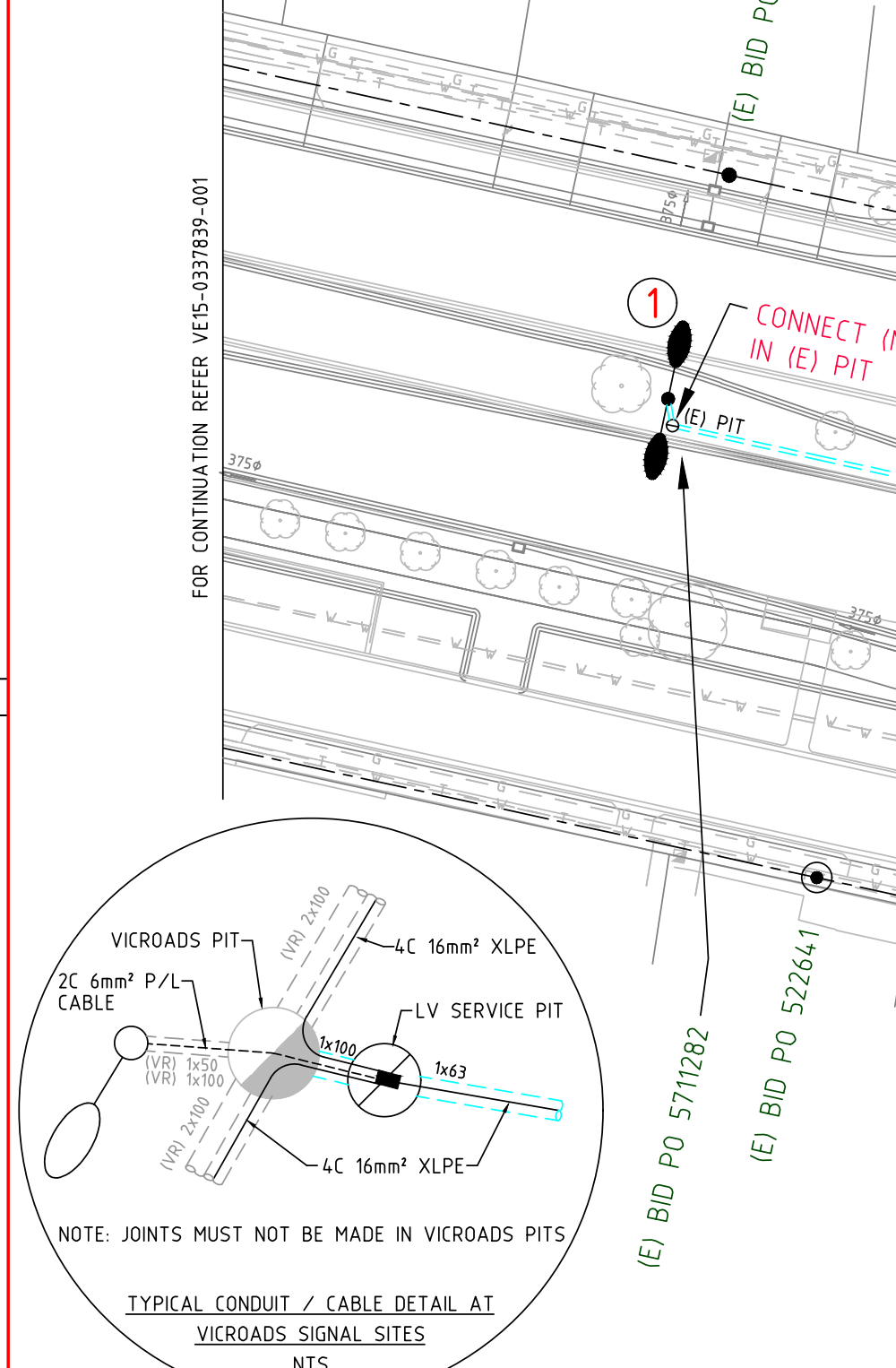
- 66kV/22kV/LV POLE HV POLE
- 150W HPSV LANTERN EXISTING
- 250W HPSV LANTERN EXISTING
- 400W HPSV LANTERN EXISTING & PROPOSED
- MV LANTERN EXISTING (WATTAGE SPECIFIED)
- POLE, EXISTING & PROPOSED
- EXISTING LV, HV & LV POLES
- PREFABRICATED LIGHTING POLE
- SERVICE PIT
- VIC. ROADS PIT
- REMOVE STAY
- AERIAL STAY (ARROW COUNTING FORCE)
- SUBSID. CCT INSULATOR SIDE
- PUBLIC LIGHT EXISTING, NEW
- SERVICE PIT LENGTH/STRENGTH/NEW
- 12/8 (N), (E), (R), (F)
- NEW, EXISTING, RETIRE / REMOVE, FUTURE

**LEGEND**

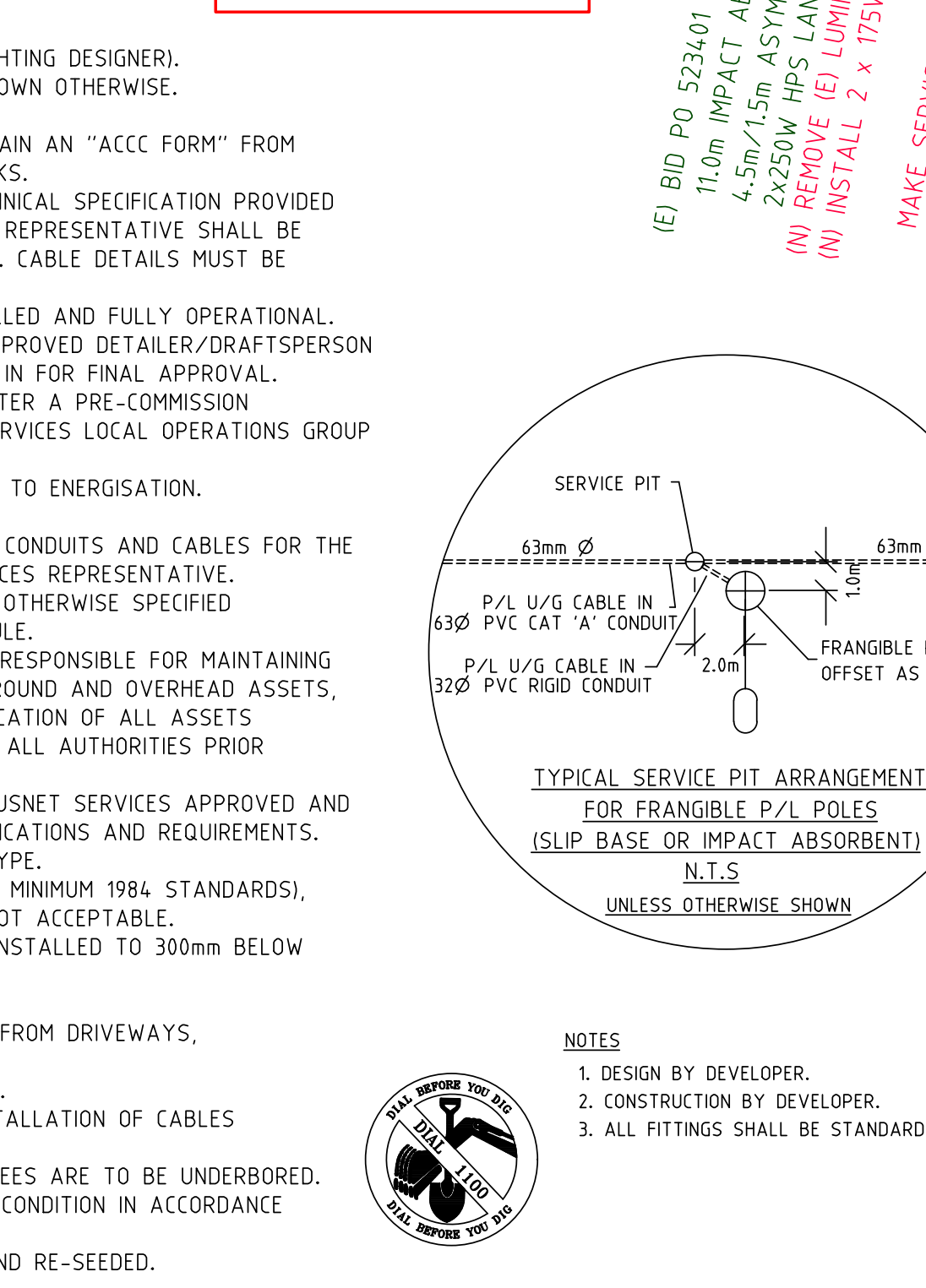
- 75W VLED LANTERN PROPOSED
- 175W VLED LANTERN PROPOSED
- UNDERGROUND PUBLIC LIGHTING CABLE IN 40mm OD CONDUIT
- UNDERGROUND SERVICE IN 63mm OD CONDUIT
- OVERHEAD SERVICE
- FUSED OVERHEAD LINE CONNECTOR BOX PHASE 1
- P/L TIMESWITCH
- FUSED OVERHEAD LINE CONNECTOR BOX PHASE 3
- BRACKET
- INCLINED
- DOUBLE
- CONCRETE POLE
- STEEL POLE
- MOUNTING HEIGHT
- EXISTING
- NEW
- REMOVE
- JOINT USE POLE
- JOINT USE MAST ARM
- UNLESS OTHERWISE SHOWN
- WOOD
- 42W CFL
- 32W CFL
- 2 x 14W T5
- 2 x 24W T5
- 100W HPS
- SLIP BASE POLE
- IMPACT ABSORBING POLE

**LEGEND (S/H)**

- 12/8 (N), (E), (R), (F)
- NEW, EXISTING, RETIRE / REMOVE, FUTURE



- NOTE:**
- 1A. LIGHTING HAS BEEN DESIGNED BY AN AUSNET SERVICES (ACCREDITED LIGHTING DESIGNER). TO AS/NZS 1158 CATEGORY V3 AS DESIGNATED BY COUNCIL UNLESS SHOWN OTHERWISE.
  - 1B. CONSTRUCTION BY DEVELOPER.
  2. BEFORE ANY WORK COMMENCES THE ACCREDITED CONTRACTOR SHALL OBTAIN AN "ACC FORM" FROM AUSNET SERVICES REPRESENTATIVE FOR PERMISSION TO COMMENCE WORKS.
  3. THE ACCREDITED CONTRACTOR SHALL ABIDE BY THIS PLAN AND THE TECHNICAL SPECIFICATION PROVIDED WITH THE AUSNET SERVICES OFFER. NOTIFICATION TO AUSNET SERVICES REPRESENTATIVE SHALL BE GIVEN WHEN WORK IS COMPLETE FOR FINAL INSPECTION TO BE INITIATED. CABLE DETAILS MUST BE OBTAINED USING A VEDN APPROVED CONTRACTOR.
  4. EXISTING LIGHTING SHALL NOT BE RETIRED UNTIL NEW LIGHTING IS INSTALLED AND FULLY OPERATIONAL.
  5. "AS BUILT" DRAWINGS SHALL BE PREPARED BY AN AUSNET SERVICES APPROVED DETAILER/DRAFTSPERSON AND SUBMITTED TO AUSNET SERVICES AT LEAST 7 DAYS PRIOR TO TIE IN FOR FINAL APPROVAL.
  6. THE TIE IN SHALL BE CARRIED OUT BY THE ACCREDITED CONTRACTOR; AFTER A PRE-COMMISSION AUDIT PASS RESULT. FORMAL APPROVAL IS REQUIRED FROM AUSNET SERVICES LOCAL OPERATIONS GROUP TO ENERGISE THE INSTALLATION.
  7. NST TESTING SHALL BE CARRIED OUT ON PUBLIC LIGHTING CIRCUITS PRIOR TO ENERGISATION. (TYPICALLY DPT1-02 AND VXS/2036).
  8. THE ACCREDITED CONTRACTOR SHALL INSTALL ALL THE ELECTRICAL PITS, CONDUITS AND CABLES FOR THE PUBLIC LIGHTING INSTALLATION TO THE SATISFACTION OF AUSNET SERVICES REPRESENTATIVE.
  9. LIGHT POLES SHALL BE INSTALLED 1.5m B.O.K. ON SIDE OF ROAD UNLESS OTHERWISE SPECIFIED
  10. ALL FITTINGS SHALL BE IN ACCORDANCE WITH THE INSTALLATION SCHEDULE.
  11. DUE DILIGENCE CLAUSE: THE ACCREDITED CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STATUTORY CLEARANCES (NO GO ZONES) TO ALL AUTHORITIES' UNDERGROUND AND OVERHEAD ASSETS, AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR KNOWING THE LOCATION OF ALL ASSETS (DIAL BEFORE YOU DIG) AND MUST ARRANGE ON-SITE INSPECTIONS WITH ALL AUTHORITIES PRIOR TO THE COMMENCEMENT OF WORKS.
  12. ALL LANTERNS (COMPLETE WITH PE CELL), POLES AND PITS SHALL BE AUSNET SERVICES APPROVED AND ARE TO COMPLY WITH VICTORIAN ELECTRICITY SUPPLY INDUSTRY SPECIFICATIONS AND REQUIREMENTS.
  13. ALL BRACKETS SHALL BE CURVED VESI STANDARD POWER AUTHORITY TYPE.
  14. CONDUITS SHALL BE HEAVY DUTY RIGID PVC TO AS 2053 (TO THE MINIMUM 1984 STANDARDS), COLOURED, ORANGE, SANDWICH CORED OR CORRUGATED TYPES ARE NOT ACCEPTABLE.
  15. ORANGE MARKER TAPE IN ACCORDANCE WITH AS/NZS 2648.1 SHALL BE INSTALLED TO 300mm BELOW SURFACE LEVEL +50mm OF ALL NON-BORED CONDUITS.
  16. ALL EQUIPMENT SUPPLIED SHALL BE NEW.
  17. LIGHT POLES SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 1.5m FROM DRIVEWAYS, FRAM CROSSINGS AND DRAINAGE PITS.
  18. COUNCIL/VICEROADS WILL BE RESPONSIBLE FOR THE PAYMENT OF TARIFFS.
  19. INSTALLATION OF PUBLIC LIGHTING IS AS SHOWN IN THE TABLE AND INSTALLATION OF CABLES IS AS SHOWN ON PUBLIC LIGHTING SCHEMATIC.
  20. WORKS UNDERNEATH ROADS OR WHICH FALL WITHIN THE DRIPLINE OF TREES ARE TO BE UNDERBORED.
  21. ALL EXCAVATIONS ARE TO BE REINSTATED TO ORIGINAL PRE-DISTURBED CONDITION IN ACCORDANCE WITH THE RELEVANT AUTHORITIES STANDARDS.
  22. GRASSSED SECTIONS ARE TO BE REINVESTED WITH 100mm OF TOP SOIL AND RE-SEEDED.



- NOTE:**
1. DESIGN BY DEVELOPER.
  2. CONSTRUCTION BY DEVELOPER.
  3. ALL FITTINGS SHALL BE STANDARD.

**REFERENCE DRAWINGS**

1	OBJECTIVE FIRST ISSUE	(POWERPLANT) PROJECT No. 75065285	ICOPANTY Project No.
REV	DESCRIPTION		

Scale: 1:500  
 Drawing No: VE15-0337839-003  
 Rev: 1

AutoCAD

**INSTALLATION SCHEDULE**

POLE No.	POLE TYPE	POLE LENGTH (m)	MOUNT'G HEIGHT (m)	BRACKET O'REACH (m)	LUMINAIRE	COST SHARED VICEROADS / CARDINIA SHIRE COUNCIL	CAM NUMBERS	LABEL TYPE	LIGHTING CATEGORY
1	(E) SLIP BASE	(E) 11.0m	(E) 12.5m	(E) DOUBLE 4.5m SPIGOT BKT	(E) 2 x 250W HPS	YES	(E) 5711282	12	V3
2	(E) IMPACT ABSORBING	(E) 11.0m	(E) 12.5m	(E) DOUBLE 3.0m SPIGOT BKT	(E) 2 x 250W HPS	YES	(E) 523400	12	V3
3	IMPACT ABSORBING	11.0m	12.5m	SINGLE 4.5m SPIGOT BKT	1 x 175W LED	YES	2602121467	12	V3
4	(E) IMPACT ABSORBING	(E) 11.0m	(E) 12.5m	(E) 4.5m/1.5m ASYMMETRICAL BKT	(N) 2 x 175W LED	YES	(E) 523401	12	V3
5	JOINT USE POLE	11.0m	12.5m	DOUBLE 4.5m SPIGOT BKT	2 x 175W LED	YES	2602121465	12	V3
6	JOINT USE POLE	11.0m	12.5m	SINGLE 3.0m SPIGOT BKT	1 x 175W LED	YES	2602121450	12	V3
7	JOINT USE POLE	11.0m	12.5m	DOUBLE 4.5m SPIGOT BKT	2 x 175W LED	YES	2602121446	12	V3
8	IMPACT ABSORBING	11.0m	12.5m	SINGLE 4.5m SPIGOT BKT	1 x 175W LED	YES	2602121480	12	V3
9	(E) IMPACT ABSORBING	(E) 11.0m	(E) 12.5m	(E) DOUBLE 4.5m SPIGOT BKT	(N) 2 x 175W LED	YES	(E) 523399	12	V3
10	IMPACT ABSORBING	11.0m	12.5m	SINGLE 4.5m SPIGOT BKT	2 x 175W LED	YES	2602121469	12	V3
11	SLIP BASE	11.0m	12.5m	DOUBLE 4.5m SPIGOT BKT	2 x 175W LED	YES	2602121473	12	V3
12	SLIP BASE	11.0m	12.5m	DOUBLE 4.5m SPIGOT BKT	2 x 175W LED	YES	2602121476	12	V3
13	SLIP BASE	11.0m	12.5m	DOUBLE 4.5m SPIGOT BKT	2 x 175W LED	YES	2602121478	12	V3

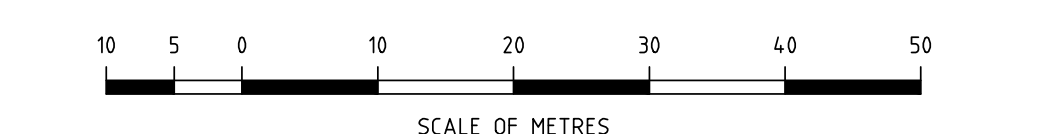
TYPE 11 - 150 x 50 BLACK ON WHITE  
 TYPE 12 - 115 x 25 BLACK ON YELLOW  
 LABEL TYPE DETAILS AS PER EVX16/351 & EVX16/351/1

**WARNING  
TELSTRA & WATER  
ASSETS IN AREA**

LIGHTING LAYOUT APPROVED BY COUNCIL / VICEROADS YES 20 / 09 / 21

THIS DRAWING SUPERSEDES VE15-0182638-001

UNLESS STATED OTHERWISE, CABLE IS AS  
 PIT TO PIT - 16mm<sup>2</sup> 4/C  
 PIT TO POLE - 6mm<sup>2</sup> 2/C



**PUBLIC LIGHTING PLAN**  
 PRINCES HIGHWAY, STATION STREET INTERSECTION  
 PRINCES HIGHWAY, STATION STREET, TIVENDALE ROAD  
 OFFICER

Project Manager	FREDDY MORIA
Project Engineer	PH 03 9237 4566
Scale	1:500
Version	2/14
Drawing No.	VE15-0337839-003
Rev	1

[UNCONTROLLED WHEN PRINTED]