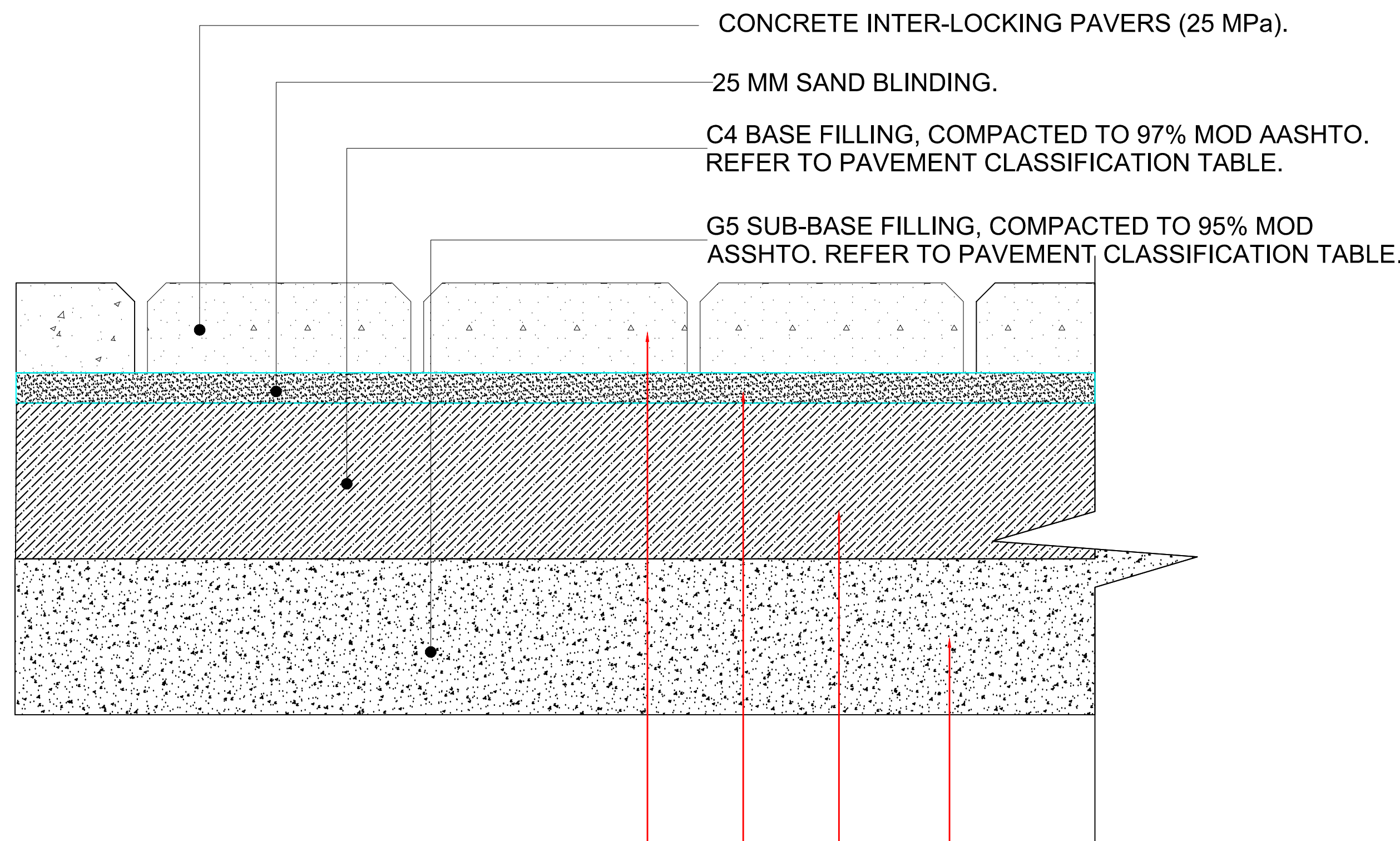




SELECTED LAYERS FOR DIFFERENT SUBGRADE (IN-SITU) CONDITIONS				
SUBGRADE/ROADBED CONDITION	DESIGN CBR	TREATMENT OF IN-SITU SUBGRADE	LOWER SELECTED LAYER	UPPER SELECTED LAYER
1	<3	SPECIAL TREATMENT (SOFT OR EXPANSIVE CLAYS)	150 mm G9	150 mm G7
2	3 - 7	*R + R TO 150 mm G10	150 mm G9	150 mm G7
3	7 - 15	*R + R TO 150 mm G9	-	150 mm G7
4	>15	*R + R TO 150 mm G7	-	-

*R + R = RIP AND RECOMPACT

SEE FULL DESCRIPTION OF PAVEMENT LAYERS

1

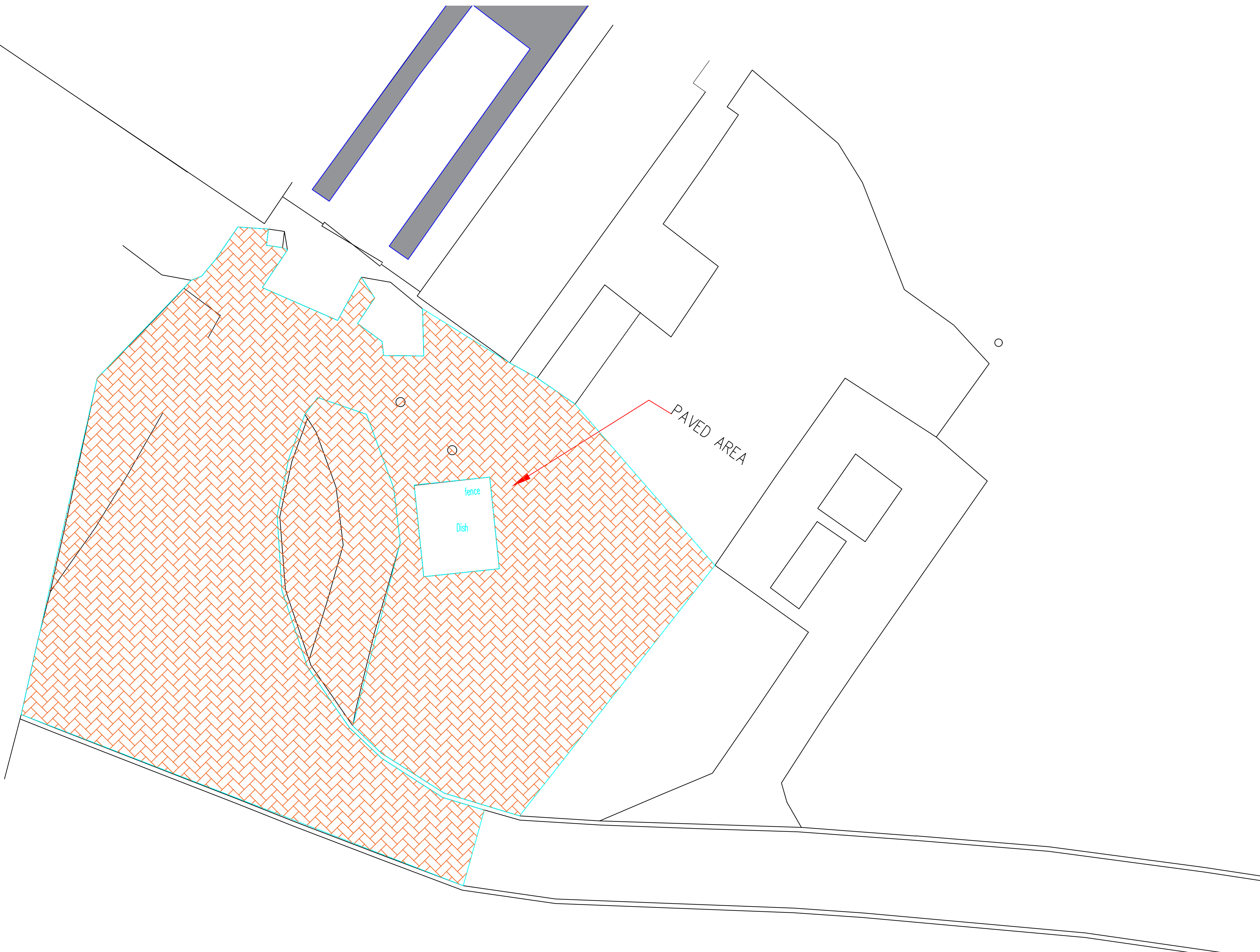
2

3

4

PAVEMENT LAYERS CLASSIFICATION FOR PARKING AREA -MEDIUM

LAYER No.	LAYER mm	TRH 14 CLASSIFICATION	DESCRIPTION	MOD. AASHTO COMPACTION
1	60	PAVING BLOCKS	WEARING COURSE: CLASS 25 INTERLOCKING CONCRETE PAVING BLOCKS SANS 1058	25 MPa
2	25	BLINDING COURSE	WASHED RIVER SAND BLINDING COURSE BETWEEN THE PAVING BLOCKS AND THE STABILISED LAYER	
3	150	C4	BASE: 150mm. C4 (CEMENTED GRAVEL) UCS: 1.5 TO 3.5 MPa AT 100% MOD AASTHO; MINIMUM ITS = 250kPa AT 95%-97% MOD AASHTO COMPACTION; MAXIMUM AGGREGATES 63mm; 5% MAXIMUM PI = 6 AFTER STABILISATION; MAX.FINES LOSS=20%	97%
4	150	G5	LOWER SUBBASE: MINIMUM CBR = 25% @ 95% Mod. AASHTO; MAXIMUM SIZE 63 MM; DENSITY AS PER PRESCRIBED LAYER USAGE; PI>12; SWELL 1.0% @ 100% Mod. AASHTO	95%



CONSULTANT:



ZIMILE CONSULTING ENGINEERS
International Business Gateway Office Park
Cnr Pioneer Avenue and Elizabeth Road
Midridge Park
1682

THIS DRAWING

PREPARED BY: SIGN

CHECKED BY: SIGN

REVIEWED BY: SIGN

APPROVED:

CONSULTING ENGINEER

SIGN

DATE

No.

0

DATE

2019-01

REVISION DETAIL

ORIGINAL VERSION

CHECKED APPROV.

CLIENT:



AIRPORTS COMPANY SOUTH AFRICA SOC Ltd
INSTALLATION OF BOLLARDS AT GEORGE NATIONAL AIRPORT

APPROVED:

CLIENT MANAGEMENT

SIGN

DATE

DRAWING DESCRIPTION:
DOLLY CONTAINER PARKING AREA AND PAVEMENT LAYERWORKS

TENDER No.:
XXXXXX

PROJECT:
INSTALLATION OF BOLLARDS AT GEORGE NATIONAL AIRPORT

DRG No.: **XXXX**

REV No.: **0**

SHEET **01** OF **05**

PROJECT No.: **XXXX**

DATE: **2018-10-01**

SCALE: **SHOWN**

SCALE H: **SHOWN**

SCALE V: **SHOWN**

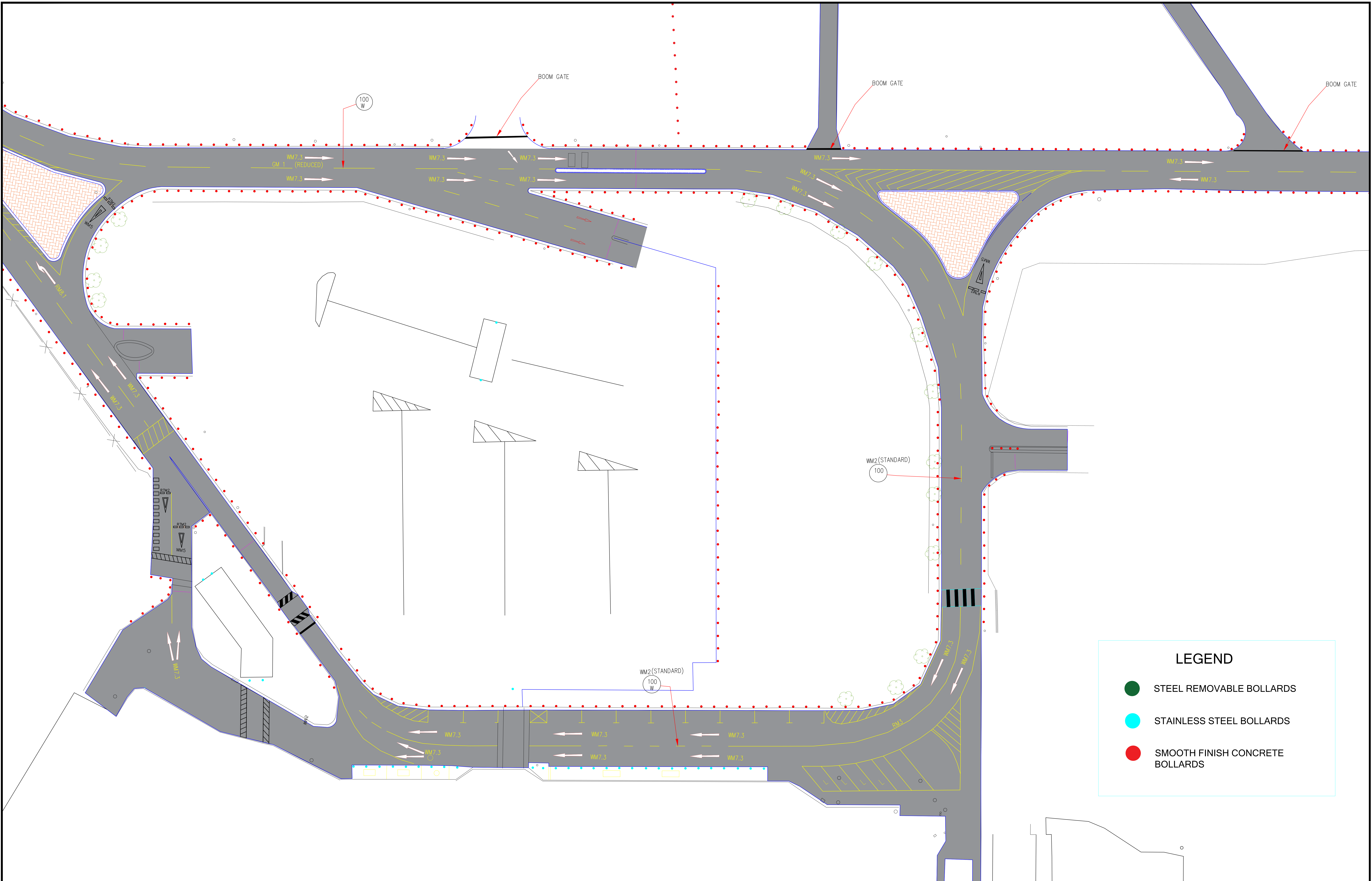
LEGEND

- STEEL REMOVABLE BOLLARDS
- STAINLESS STEEL BOLLARDS
- SMOOTH FINISH CONCRETE BOLLARDS

GEORGE NATIONAL AIRPORT



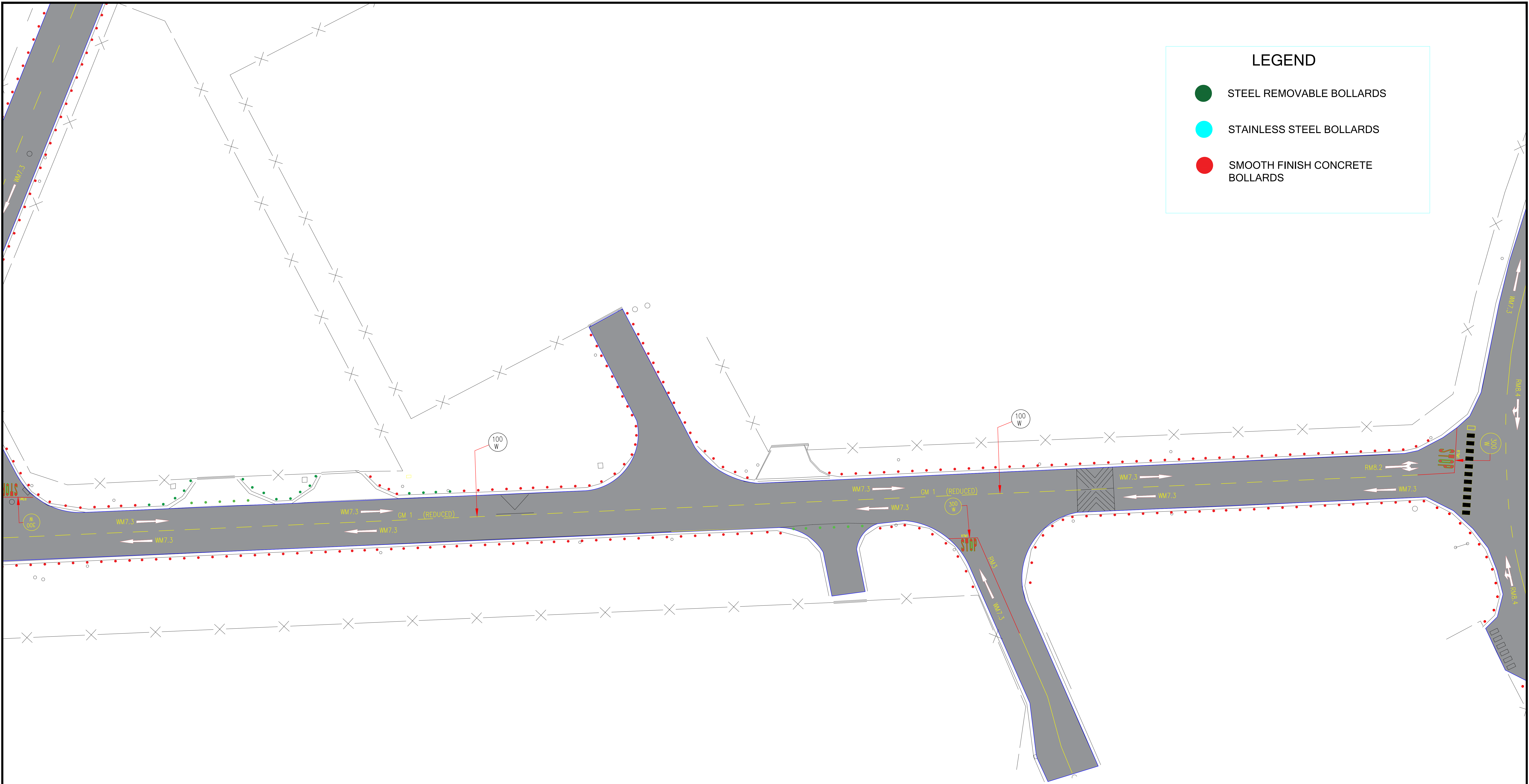
CONSULTANT:		ZIMILE CONSULTING ENGINEERS		THIS DRAWING		APPROVED:		No.		DATE		REVISION DETAIL		CHECKED		APPROV.		CLIENT:		AIRPORTS COMPANY SOUTH AFRICA SOC Ltd		APPROVED:		DRAWING DESCRIPTION:		DRG No.:		XXXX	
		International Business Gateway Office Park Cnr Pioneer Avenue and Elizabeth Road Midridge Park 1682		PREPARED BY:		SIGN		CONSULTING ENGINEER		0		2019-01		ORIGINAL VERSION						AIRPORTS COMPANY SOUTH AFRICA		CLIENT MANAGEMENT		ROAD MARKING AND BOLLARDS LAYOUT KEY PLAN		REV No.:		0	
		CHECKED BY:		SIGN																		SIGN		TENDER No.:		PROJECT No.:		XXXX	
		REVIEWED BY:		SIGN				SIGN														DATE		XXXXXX		DATE:		2018-10-01	
		L DLAMINI						DATE														DATE		PROJECT:		SCALE:		SHOWN	
		L DLAMINI																				DATE		INSTALLATION OF BOLLARDS AT GEORGE NATIONAL AIRPORT		SCALE H:		SHOWN	
																										SCALE V:		SHOWN	



LEGEND

- STEEL REMOVABLE BOLLARDS
- STAINLESS STEEL BOLLARDS
- SMOOTH FINISH CONCRETE BOLLARDS

CONSULTANT:		THIS DRAWING		APPROVED:	No.	DATE	REVISION DETAIL	CHECKED	APPROV.	CLIENT:	APPROVED:		DRAWING DESCRIPTION:		DRG No.:	XXXX
		ZIMILE CONSULTING ENGINEERS		CONSULTING ENGINEER	0	2019-01	ORIGINAL VERSION		-			CLIENT MANAGEMENT	ROAD MARKING AND BOLLARDS LAYOUT PLAN		REV No.:	0
International Business Gateway Office Park Cnr Pioneer Avenue and Elizabeth Road Midridge Park 1682		PREPARED BY:	SIGN							AIRPORTS COMPANY SOUTH AFRICA SOC Ltd			SHEET 01 OF 05		PROJECT No.:	XXXX
		CHECKED BY:	SIGN							INSTALLATION OF BOLLARDS AT GEORGE NATIONAL AIRPORT			PROJECT No.:		DATE:	2018-10-01
		REVIEWED BY:	SIGN										PROJECT:		SCALE:	SHOWN
		L DLAMINI		SIGN									INSTALLATION OF BOLLARDS AT GEORGE NATIONAL AIRPORT		SCALE H:	SHOWN
		L DLAMINI		DATE											SCALE V:	SHOWN



LEGEND

STEEL REMOVABLE BOLLARDS

STAINLESS STEEL BOLLARDS

SMOOTH FINISH CONCRETE BOLLARDS

CONSULTANT:		ZIMILE CONSULTING ENGINEERS		THIS DRAWING		APPROVED:		No.		DATE		REVISION DETAIL		CHECKED		APPROV.		CLIENT:		APPROVED:		DRAWING DESCRIPTION:		DRG No.:		XXXX	
		International Business Gateway Office Park Cnr Pioneer Avenue and Elizabeth Road Midridge Park 1682		PREPARED BY: SIGN		CONSULTING ENGINEER		0		2019-01		ORIGINAL VERSION				-				AIRPORTS COMPANY SOUTH AFRICA SOC Ltd		ROAD MARKING AND BOLLARDS LAYOUT PLAN		REV No.:		0	
		CHECKED BY: SIGN																		INSTALLATION OF BOLLARDS AT GEORGE NATIONAL AIRPORT		TENDER No.:		PROJECT No.:		XXXX	
		REVIEWED BY: SIGN																				XXXXXX		DATE:		2018-10-01	
		L DLAMINI		SIGN																		PROJECT:		SCALE:		SHOWN	
		L DLAMINI		DATE																		INSTALLATION OF BOLLARDS AT GEORGE NATIONAL AIRPORT		SCALE H:		SHOWN	
																								SCALE V:		SHOWN	

LEGEND

STEEL REMOVABLE BOLLARDS

STAINLESS STEEL BOLLARDS

SMOOTH FINISH CONCRETE BOLLARDS

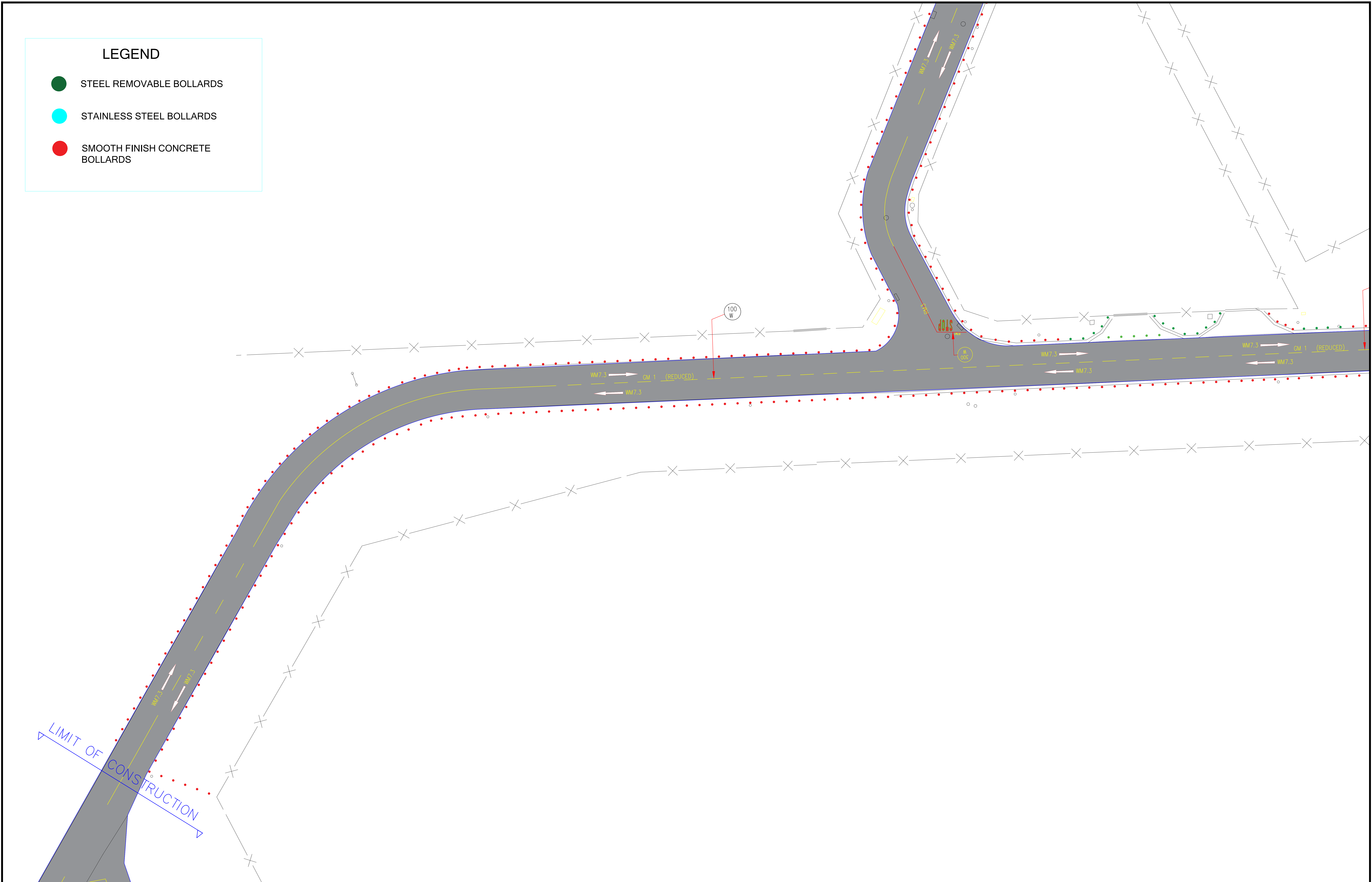
CONSULTANT:		ZIMILE CONSULTING ENGINEERS		THIS DRAWING		APPROVED:		No.		DATE		REVISION DETAIL		CHECKED		APPROV.		CLIENT:		APPROVED:		DRAWING DESCRIPTION:		DRG No.:		XXXX					
		International Business Gateway Office Park Cnr Pioneer Avenue and Elizabeth Road Midridge Park 1682		PREPARED BY: SIGN		CONSULTING ENGINEER		0		2019-01		ORIGINAL VERSION				-				CLIENT MANAGEMENT		ROAD MARKING AND BOLLARDS LAYOUT PLAN		REV No.:		0					
				CHECKED BY: SIGN														AIRPORTS COMPANY SOUTH AFRICA SOC Ltd		SIGN		TENDER No.:		SHEET		04		OF		05	
				REVIEWED BY: SIGN		SIGN												INSTALLATION OF BOLLARDS AT GEORGE NATIONAL AIRPORT		DATE		XXXXXX		PROJECT No.:		XXXX		DATE:		2018-10-01	
				L DLAMINI		DATE												AIRPORTS COMPANY SOUTH AFRICA		DATE		PROJECT:		SCALE:		SHOWN					
				L DLAMINI																		INSTALLATION OF BOLLARDS AT GEORGE NATIONAL AIRPORT		SCALE H:		SHOWN					
																								SCALE V:		SHOWN					

LEGEND

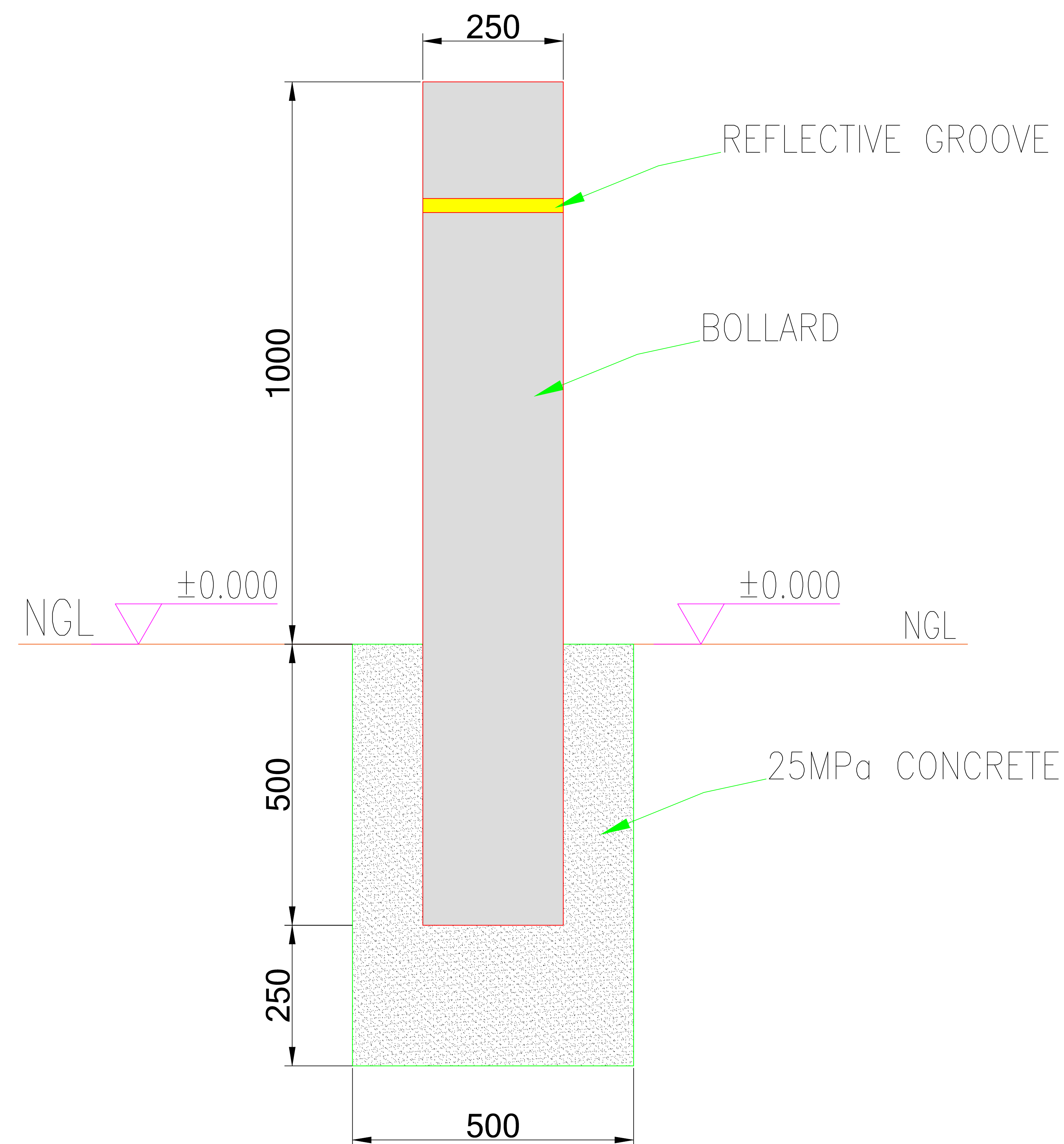
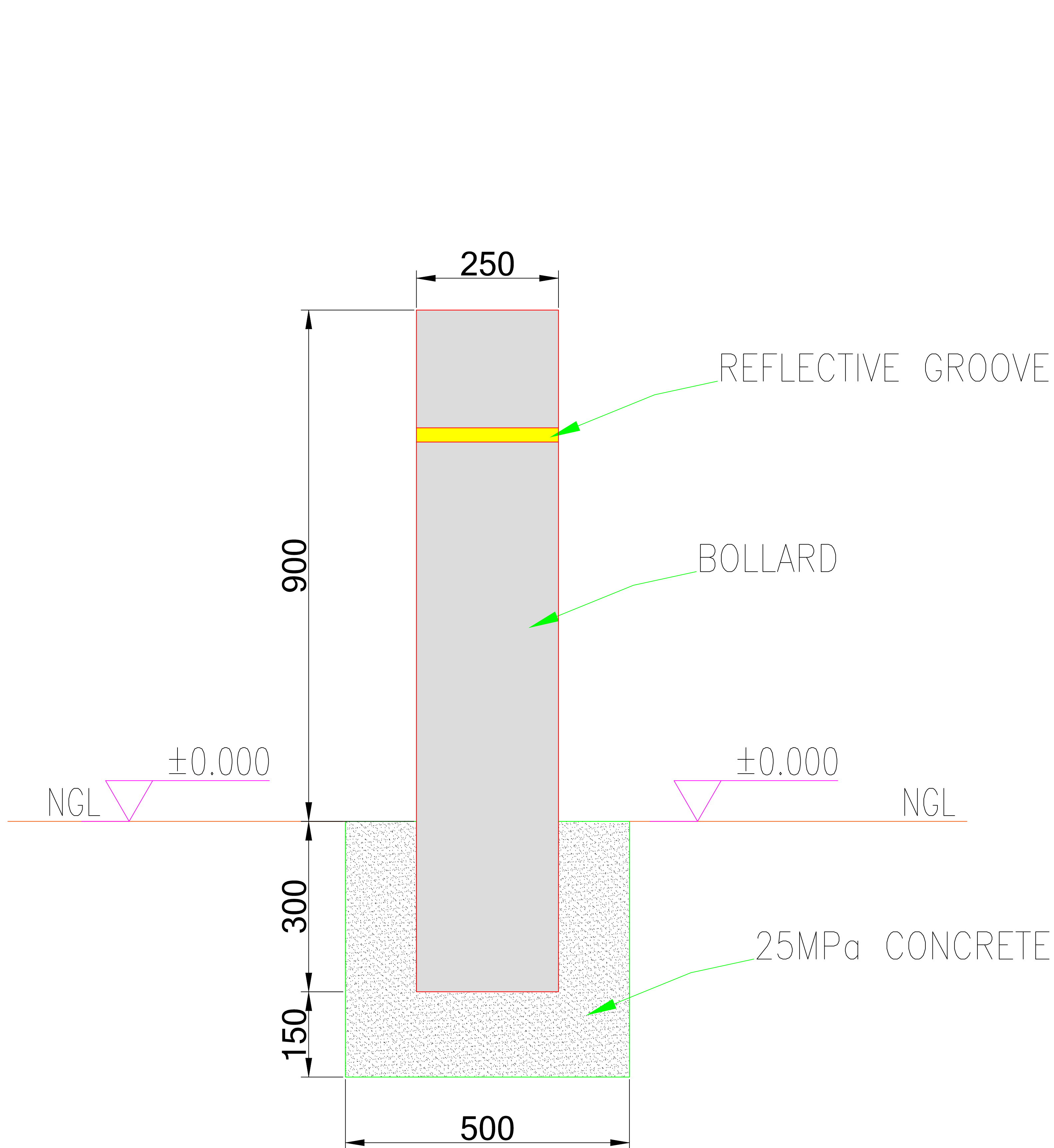
STEEL REMOVABLE BOLLARDS

STAINLESS STEEL BOLLARDS

SMOOTH FINISH CONCRETE BOLLARDS



CONSULTANT:		THIS DRAWING		APPROVED:	No.	DATE	REVISION DETAIL		CHECKED	APPROV.	CLIENT:		APPROVED:	DRAWING DESCRIPTION:		DRG No.:	XXXX
ZCE ZIMILE Consulting Engineers International Business Gateway Office Park Cnr Pioneer Avenue and Elizabeth Road Midridge Park 1682		ZIMILE CONSULTING ENGINEERS		CONSULTING ENGINEER	0	2019-01	ORIGINAL VERSION			-	GEORGE AIRPORT AIRPORTS COMPANY SOUTH AFRICA AIRPORTS COMPANY SOUTH AFRICA SOC Ltd INSTALLATION OF BOLLARDS AT GEORGE NATIONAL AIRPORT		CLIENT MANAGEMENT	ROAD MARKING AND BOLLARDS LAYOUT PLAN		REV No.:	0
		PREPARED BY:	SIGN											TENDER No.:		SHEET	05 OF 05
		CHECKED BY:	SIGN											PROJECT No.:			XXXX
		REVIEWED BY:	SIGN											DATE:			2018-10-01
				SIGN										PROJECT:		SCALE:	SHOWN
				DATE										INSTALLATION OF BOLLARDS AT GEORGE NATIONAL AIRPORT		SCALE H:	SHOWN
																SCALE V:	SHOWN



CONSULTANT:		THIS DRAWING		APPROVED:		No.		DATE		REVISION DETAIL		CHECKED		APPROV.		CLIENT:		APPROVED:		DRAWING DESCRIPTION:		DRG No.:	
ZIMILE CONSULTING ENGINEERS		PREPARED BY: SIGN		CONSULTING ENGINEER		0		2019-01		ORIGINAL VERSION				-		AIRPORTS COMPANY SOUTH AFRICA SOC Ltd		CLIENT MANAGEMENT		TYPICAL BOLLARDS SECTION DETAIL		XXXX	
International Business Gateway Office Park Cnr Pioneer Avenue and Elizabeth Road Midridge Park 1682		N MHLANGA														AIRPORTS COMPANY SOUTH AFRICA				TENDER No.: XXXXXX		SHEET 01 OF 05	
		CHECKED BY: SIGN		SIGN																PROJECT No.: XXXXXX		PROJECT No.: XXXXXX	
		REVIEWED BY: SIGN		DATE																INSTALLATION OF BOLLARDS AT GEORGE NATIONAL AIRPORT		DATE: 2018-10-01	
		L DLAMINI																		SCALE H: SCALE V:		SCALE: SCALE V:	
		L DLAMINI																		SHOWN		SHOWN	