APPENDIX 1

LOOKUP CODES

Purpose

This appendix outlines NZ Transport Agency's (NZTA) lookup codes used to describe the various elements of the road corridor. Particular attention has been given to the Signs section to ensure that the codes used in the *Manual of Traffic Signs and Markings* are reflected in these codes.

Ownership and updating

Asset management team, NZTA National Office, maintains the lookup codes.

Refer to the Asset Engineer (Information), Highways and Network Operation Group, NZTA National Office for any proposed modifications

In this Appendix

This appendix covers the following topics:

Topic	Detail	See Page
1.0 NZTA Codes	Regional	A1 - 5
	Network Management Area Codes.....	A1 - 6
2.0 Local Authority Codes	North Island	A1 - 7
	South Island	A1 - 9
3.0 Surfacing Codes	Material Type.....	A1 - 10
	Additive Type	A1 - 11
	Material Categories.....	A1 - 12
	Adhesion Type.....	A1 – 13
	Surface Reason	A1 – 14
	Recycled Component.....	A1 – 14
	Binder Type	A1 - 15
	Surface Specification	A1 – 15
4.0 Pavement Materials	Contract Specification.....	A1 – 16
	Material Types	A1 – 16

In this Appendix, continued

Topic	Detail	See Page
5.0 Drainage	Drain Type	A1 – 17
	Drainage Invert Lining.....	A1 – 18
	Drainage Wall Type.....	A1 – 18
	Drain Entry Type	A1 – 19
	Drain Culvert Type	A1 – 19
	Surface Water Type	A1 – 20
	Drain Material Type.....	A1 – 21
6.0 Responsibility	Organisation Codes.....	A1 – 22
7.0 Minor Structures	Minor structures type / subtype	A1 – 23
	Minor Structures Materials	A1 – 25
	Minor Structures Surface Treatments.	A1 – 25
	Minor Structures Style	A1 – 25
8.0 Railings	Railings Type.	A1 – 26
	Railings Make	A1 – 26
	Railings Material.....	A1 – 27
	Railings Ground Fix	A1 – 27
	Railings End Style	A1 – 28
	Railings Attachments.....	A1 – 29
9.0 Features	Feature Type Codes	A1 – 30

In this Appendix, continued

Topic	Detail	See Page
10.0 Signs - MOTSAM	Intentionally blank	A1 – 31
10.1	Intentionally blank	A1 – 32
10.2 Regulatory General	General Sign Types.....	A1 – 33
10.3 Regulatory Parking	Parking Sign Types.....	A1 – 36
10.4 Regulatory Heavy Vehicles	Heavy Vehicle Sign Types	A1 – 37
10.5 Temporary Warning	Special Note.....	A1 – 38
	Allowable Codes.....	A1 – 38
10.6 Permanent Warning	Sign Types	A1 – 39
10.7 Guide Signs	Advance Direction Signs	A1 – 43
	Advance Lane Direction Signs	A1 – 43
	Intersection Direction Signs.....	A1 – 43
	Confirmation Destination Signs	A1 – 43
	Street Name Signs.....	A1 – 43
	Place Name Signs	A1 – 44
	Route Marker Signs	A1 – 44
10.8 Motorist Service Signs	Advance signs – Service beside the Highway.....	A1 – 45
	Advance signs – Service on a Side Road.....	A1 – 45
	Position Signs – with Chevron	A1 – 45
	Position Signs – with Arrow.....	A1 – 45
10.9 Tourist Signs	Tourist Information Signs.....	A1 – 46
	Tourist Route Sign.....	A1 – 46
10.10 Information General Signs	General Information Signs.....	A1 – 47

In this Appendix, continued

Topic	Detail	See Page
11.0 Signs - Miscellaneous	Warning Miscellaneous Signs.....	A1 – 48
	Warning Motorway Signs	A1 – 48
	Information Miscellaneous Signs.....	A1 – 49
	Information Motorway Signs	A1 – 50
	Locational Reference Signs.....	A1 – 50
	Miscellaneous Signs.....	A1 – 51
12.0 Hazard Markings	Hazard Markers	A1 – 52
13.0 Road Markings	Roadmarking Types	A1 – 53
	Roadmarking Materials.....	A1 – 56
	Roadmarking Colour.....	A1 – 56
14.0 Retaining Walls	Retaining Walls Material	A1 – 57
	Retaining Walls Type.....	A1 – 57
15.0 Street Lighting	Pole Purpose.....	A1 – 58
	Bracket Type	A1 – 58
	Light Control Mechanism	A1 – 58
	Pole Shape.....	A1 – 59
	Pole Mount.....	A1 – 59
	Pole Materials.....	A1 – 59
16.0 Shoulders	Shoulder Material.....	A1 – 60
17.0 Intelligent Transport Systems (ITS)	ITS Types.....	A1 – 61
	ITS Manufacturer.....	A1 – 62
	ITS State.....	A1 – 62

1.0 NZTA Codes

Regional Codes	1	Northland
	2	Auckland
	3	Waikato
	4	Bay of Plenty
	5	Gisborne
	6	Hawke's Bay
	7	Taranaki
	8	Wanganui/Manawatu
	9	Wellington
	10	Nelson/Marlborough
	11	Canterbury
	12	West Coast
	13	Otago
	14	Southland

1.0 NZTA Codes, continued

NMA Codes

NLD	Northland
AKL	Auckland South
AKP	PSMC005 – Auckland North
CWK	Central Waikato
EWK	East Waikato
WWK	West Waikato
BAY	Bay of Plenty West
BOP	Bay of Plenty East
ROT	Rotorua
TAU	Tauranga
PSM	PSMC001
GIS	Gisborne
NAP	Napier
EWG	East Wanganui
WWG	West Wanganui
WGT	Wellington
NEL	Nelson
MAR	Marlborough
NTC	North Canterbury
STC	South Canterbury
WCO	West Coast
COA	Coastal Otago
COT	Central Otago
STH	Southland

2.0 Local Authority Codes

Local Authorities (North Island)	1	Far North District
	2	Kaipara District
	3	Whangarei District
	4	Auckland City
	5	Franklin District
	6	Manukau City
	7	North Shore City
	8	Papakura District
	9	Rodney District
	10	Waitakere City
	11	Hamilton City
	12	Hauraki District
	13	Matamata-Piako District
	14	Otorohanga District
	15	South Waikato District
	16	Taupo District
	17	Thames Coromandel District
	18	Waikato District
	19	Waipa District
	20	Waitomo District
	21	Kawerau District
	22	Opotiki District
	23	Rotorua District
	24	Tauranga District
	25	Western Bay of Plenty District

Continued on next page

2.0 Local Authority Codes, continued

Local Authorities (North Island) - continued	26	Whakatane District
	27	Gisborne District
	28	Central Hawke's Bay District
	29	Hastings District
	30	Napier City
	31	Wairoa District
	32	New Plymouth District
	33	South Taranaki District
	34	Stratford District
	35	Horowhenua District
	36	Manawatu District
	37	Palmerston North City
	38	Rangitikei District
	39	Ruapehu District
	40	Tararua District
	41	Wanganui District
	42	Carterton District
	43	Kapiti Coast District
	44	Lower Hutt City
	45	Masterton District
	46	Porirua City
	47	South Wairarapa District
	48	Upper Hutt City
	49	Wellington City

Continued on next page

2.0 Local Authority Codes, continued

Local Authorities (South Island)	50	Kaikoura District
	51	Marlborough District
	52	Nelson City
	53	Tasman District
	54	Ashburton District
	55	Banks Peninsula District
	56	Christchurch City
	57	Hurunui District
	58	Mackenzie District
	59	Selwyn District
	60	Timaru District
	61	Waimakariri District
	62	Waimate District
	63	Buller District
	64	Grey District
	65	Westland District
	66	Central Otago District
	67	Clutha District
	68	Dunedin City
	69	Queenstown-Lakes District
	70	Waitaki District
	71	Gore District
	72	Invercargill City
	73	Southland District

3.0 Surfacings

Material Type	1CHIP	Single Coat Seal
	2CHIP	Two Coat Seal
	AC	Asphaltic Concrete
	BBM	Bitumen Bound Macadam
	B/S	Bicouche/Sandwich
	BOLID	BOLIDT Polyurethane Mix
	CAPE	Capeseal
	CONC	Concrete
	INBLK	Interlocking Block
	LOCK	Locking Coat Seal
	METAL	Metal Running Course
	OGEM	Open graded emulsion mix
	OGPA	Open Graded Porous Asphalt
	OTHER	Other material type
	PSEAL	Prime and Seal
	PSKID	Premium Skid Surface > 70
	RACK	Racked-in Seal
	RCHIP	Red Chip Seal (McCullum)
	SLRY	Slurry Seal
	SMA	Stone Mastic Asphalt
	TEXT	Texturising Seal
	VFILL	Void Fill Seal

3.0 Surfacings, continued

Additive Type	AB4	Olexobit AB4
	AB5	Olexobit AB5
	AB6	Olexobit AB6
	AOG	Olexobit AOG
	AX14	Mobilflex
	AX50	FH Paveflex
	CF	Cellulose Fibre
	CRBR	Crumb Rubber
	EFXC	Emoflex C
	EX15	Fulton Hogan Paveflex
	LIME	Lime
	NRLX	Natural Rubber Latex
	PB4	Polybutadiene
	PBD	Olexobit SAM
	PEEH	Techniflex EH Polymer
	PM01	Techniflex PMB 101
	PM05	Techniflex PMB 105
	PMB1	Techniflex PMB 100
	PM30	Techniflex PMB 130
	PMB4	Techniflex PMB 400
	PMB6	Techniflex PMB 600
	PMB8	Techniflex PMB 800
	PMBP	Paveflex PMB
	POL1	Polybilt 101
	POL2	Polybilt 102
	POL3	Polybilt 103

Continued on next page

3.0 Surfacings, continued

Additive Type, continued	SAMC	Sam C
	SAME	Samiflex E50
	SAMF	Samfilla
	SBR	Styrene Butadiene Rubber
	SBS	Styrene Butadiene Styrene
	SIS	Styrene Isoprene Styrene
	SX12	Fulton Hogan Paveflex
	SX13	Fulton Hogan Paveflex
	SX14	Fulton Hogan Paveflex
	SX15	Fulton Hogan Paveflex
	SX30	Fulton Hogan Paveflex
	SX50	Fulton Hogan Paveflex
	SX51	Fulton Hogan Paveflex
	SX60	Fulton Hogan Paveflex
	SX71	Fulton Hogan Paveflex
	TMEH	Techniflex PM Emulsion
	XCS4	XCS 104
	340A	Flexiphalt 340A

Material Categories	AM	Asphalt Mix
	CHIP	Chipseal
	CONC	Concrete
	METAL	Metal
	OTHER	Other

3.0 Surfacings, continued

Adhesion Type	BP50	BP50C
	BTRN	Bitran H
	C101	Chemcolour 101
	CCA2	CECA 280
	CC59	Synthecol CC59LT
	CECA	CECA EXP 3747
	D184	Dinaram 184
	D374	Dinaram 3747
	DHBG	Diamin HBG
	DMP2	Dope MP-2
	DMPL	Duomeen T(Pastille)
	DMPS	Duomeen T(Paste)
	DOLB	Diamin OLB
	INTF	Interfacial Adhesion Agent
	MGA1	Megamine 100
	MGBA	Megamine BA
	N422	Redicote N422
	N561	Redicote N561
	N606	Redicote N606
	N893	Redicote N893
	P200	Polyram L200
	P374	Polyram 3747
	RDIZ	Redicote Z

Continued on next page

3.0 Surfacings, continued

Adhesion Type, contd.	RIVR	Rivertex
	SCOL	Synthecol CC519A
	SHTA	Shell Tenicon A
	TAA3	Tomah 3000
	WTFX	Wetfix C
	WTBE	Wetfix BE

Surface Reason	CR	Cracking
	LT	Loss of Texture (not flushing)
	PA	Pavement Repairs and patches (subgrade)
	PS	Polished Stone (from SCRIM)
	PH	Potholes and Patches (surface issue)
	RA	Ravelling (AC surfaces)
	RG	Roughness (Asphalt surfaces only)
	SC	Scabbing
	SE	Second Coat
	TT	Traffic Threshold
	UI	Urban Issues (noise, etc.)

Recycled Component	CRBR	Crumb Rubber
	GLAS	Glass
	MA	Marginal Aggregate
	RAP	Reclaimed Asphaltic Pavement
	SLAG	Slag

3.0 Surfacings, continued

Binder Type	B130	Bitumen 130/150
	B180	Bitumen 180/200
	B45	Bitumen 45/55
	B60	Bitumen 60/70
	B80	Bitumen 80/100
	E180	Emulsion 180/200
	E80	Emulsion 80/100
	EPM	Emulsion Polymer Modified
	PMB	Polymer Modified Bitumen
	POLY	Polyurethane
	PORT	Portland Cement
	UNKN	Unknown
	WATR	Water

Surface Specification	P3	First Coat Sealing
	P4	Resealing – Output Based
	P9	Construction of Asphaltic Concrete Paving
	P9P	(Auckland) Construction of Asphaltic Concrete Paving
	P11	Open Graded Porous Asphalt
	P11HS	Open Graded Porous Asphalt – High Strength
	P17	Performance Based Specification for Bituminous Reseals
	P18P	Performance Based Specification for Asphaltic Concrete - Pilot
	P23P	Performance Based Specification for Gap Graded Asphaltic Concrete - Pilot

4.0 Pavement Materials

Contract Specification	B2	Unbound Granular Pavements
	B3	Performance Spec – Unbound Granular Pavements

Material Types

Pavement material codes may be added on a region-by-region basis.

Any requests for changes should be made to the appropriate NZTA Regional Office.

5.0 Drainage

Drain Type

BO	Bored Drains
CP1	Catchpit – Single sump
CP2	Catchpit – Double sump
CP3	Catchpit – Side entry
CUL	Culvert
DAM	Dam
DCHM	Drop Chamber
DISS	Dissipation Pad
DWELL	Deep well shaft
EYE	Flushing Eye
FLUME	Flume down batter
GRID	Debris catching grid
MHOLE	Transit Manhole
OFCUL	Outfall Culvert
OTHER	Other
POND	Permanent Silt Pond
SCOUR	Scour Protection
SD	*Double Sump – change to CP2*
SDCUL	Side Culvert
SIDE	Side drain
SP	Soak pit
SPILL	Spillway
SSE	*Sump Side Entry – change to CP3*
SUB	Subsoil drain
SUMP	*Sump – change to CP1*
WEIR	Weir
WR	Water Race

5.0 Drainage, continued

Drainage Invert Lining	ASP	Asphalt
	CON	Concrete
	NON	None
	OTH	Other
	UKN	Unknown

Drainage Wall Type	A	Apron
	C	Catchpit
	D	Drop Chamber
	G	General
	H	Headwall
	W	Wingwall

5.0 Drainage, continued

Drain Entry Type	CP	Catchpit
	DC	Drop Chamber
	FL	Flume
	G	Yes with a Grating
	GD	Grid
	HC	Headwalls – concrete
	HT	Headwalls – timber
	HG	Headwalls – concrete with Grating
	MH	Manhole
	N	No
	OT	Other Structure
	RC	Rock Wall (Cemented)
	RH	Rock Wall (Hand Placed)
	SB	Sandbags
	TR	Traversable Grate

Drain Culvert Type	ARCH	Arched
	BOX	Box shaped
	CIRC	Circular
	OTHER	Other
	TRIP_BOX	Triple Box
	TRIP_CIRC	Triple Circular
	TWIN_ARCH	Twin Arched
	TWIN_BOX	Twin Boxes
	TWIN_CIRC	Twin Circular
	WATERDRV	Waterdrive (hand dug)

5.0 Drainage, continued

Surface Water Type	DA	Dished Channel (Asphalt)
	DC	Dished Channel (Concrete)
	DP	Dished Channel (Half Pipe)
	DS	Dished Channel (Sealed)
	KC	Kerb Only (Concrete)
	KCC	Kerb & Channel (Concrete)
	KCS	Kerb & Channel (Stone)
	KDC	Kerb & Dished Channel (Concrete)
	KS	Kerb Only (Stone)
	MKCC	Mountable Kerb & Channel (Concrete)
	MKC	Mountable Kerb Only
	OTHER	Other Type
	SLTC	Slot Channel (Concrete)
	SWCD	SWC (Deep, >200 Below Seal Edge)
	SWCDS	SWC deep – spray zone
	SWCS	SWC (Shallow, <200 Below Seal Edge)
	SWCSS	SWC shallow – spray zone
	UKN	Unknown

5.0 Drainage, continued

Drain Material Type	AC	Asbestos Cement
	ALUM	Aluminium
	ARMCO	Armco
	CON	Concrete
	EW	Earthenware
	FAB	Fabric
	HDPE	H Density Polyethyl
	NG	Natural Ground (e.g. grass)
	PVC	Poly Vinyl Chloride
	STEEL	Steel
	STONE	Stone
	WILL	Willow Saplings/Logs
	WOOD	Timber construction

6.0 Responsibility

Organisation Codes	ATR	ARRB Transport research Ltd
	BCF	Beca Infrastructure
	CJN	CJN Technologies
	DWK	Duffill Watts and King
	ECL	Excell Corporation
	FUL	Fulton Hogan
	GHD	GHD Ltd
	HEB	HEB Construction
	HIG	Higgins
	LA	Local Authority
	MER	Maunsell
	MWH	Montgomery Watson Harza
	NTA	NZ Transport Agency – Highway Programme
	OIC	Opus International Consultants
	PMS	Pavement Management Services
	TFD	Transfield Services
	TNZ	New Zealand Transport Agency
	TT	Tonkin and Taylor
	WIL	Downer EDI Works

7.0 Minor Structures

Minor Structures	Type Code	Sub-Type Code	Description
Fence	FENCE	NOISE	Noise reduction fencing
		CATCH	Rock fall catch fence
Gantries	GANTRY	SNGLE	Over a single carriageway
		DBLE	Spans both sides of a divided carriageway
		CANT	Cantilever
Groyne	GROYNE		Groyne
Overbridges	OBR	PED	Pedestrian
		RAIL	Railway
		STOCK	Stock
		VEH	Vehicle
Traffic Barrier	TBAR	GATE	Moveable Traffic Barrier
Tunnels	TUNNEL		Tunnel
Underpasses	UPASS	PED	Pedestrian
		RAIL	Railway
		STOCK	Stock
		VEH	Vehicle
Variable Message Signs	VMS	SPEED	Speed Symbol
		TEXT	Text Board

Continued on next page

7.0 Minor Structures, continued

Minor Structures	Type Code	Sub-Type Code	Description
Non-Retaining Walls	WALL	BCON	Bagged Concrete
		CONC	Concrete
		GABN	Gabion
		ROCK	Rock
Weigh Station	WSTAT		Weigh Station
Weigh in Motion Station	WIM		Weigh in motion station

7.0 Minor Structures, continued

Minor Structures Materials	ARMCO	Armco
	COMP	Steel Composite
	CON	Concrete
	DRUM	Steel Drum
	EARTH	Earth
	GALV	Galvanised Steel
	MESH	Steel Wire Mesh
	PLAST	Plastic
	ROCK	Rock
	STEEL	Steel
	STONE	Stone
	UNKN	Unknown
	WOOD	Wood
Minor Structures Surface Treatments	G	Galvanised
	NONE	None
	OTHER	Other
	P	Painted
	U	Unpainted
	UNKN	Unknown
Minor Structures Style	A	Angled
	H	Horizontal
	L	Lattice
	NONE	None
	OTHER	Other
	UNKN	Unknown
	V	Vertical

8.0 Railings

Railings Type	BARR	Barrier
	CABLE	Cable Barrier
	FTYPE	F-type Concrete
	GR	Guard Rail
	HR	Hand Rail
	NJ	New Jersey Barrier
	OTHER	Other
	SIBC	Steel Medium Barrier - IBC
	SR	Sight Rail
	STP	Steel Tube and Post Barrier
	SWR	Steel Wire Rope Barrier
	TBGR	THRIE Beam Steel Guard Rail
	TRIC	TRIC Block Concrete Barrier
	WGR	W-section Guard Rail

Railings Make	ARM	Armourflex
	BRD	Bridon
	BRF	Brifen
	CSP	CSP Pacific
	SAF	Safence

8.0 Railings, continued

Railings Material	ARMCO	Armco
	COMP	Steel Composite
	CON	Concrete
	DRUM	Steel Drum
	EARTH	Earth
	GALV	Galvanised Steel
	GT	Galvanised rails/timber posts
	MESH	Steel Wire Mesh
	PLAST	Plastic
	PT	Plastic/timber posts
	STEEL	Steel
	STONE	Stone
	UNKN	Unknown
	WOOD	Wood

Railings Ground Fix	GP	Ground plant
	N/A	Not Applicable
	NUC	Nucor (Steel)
	TP1M	Timber posts 1 metre intervals
	TP2	*Do not use - inactive*
	TP2M	Timber posts 2 metre intervals
	TP3M	Timber posts 3 metre intervals
	UN	Unknown

8.0 Railings, continued

Railings End Style	ATE	Armorwire Terminal End
	BCT	Breakaway Cable Terminal Unit
	BIBS	Buried in Backslope
	BP	Bridge Plate/Bridge Connector
	BN	Bull Nose/BCT
	BR	Brifen Terminal
	CASS	Cable Safety System - CSP
	CE	Cable End
	CT350	CAT350
	ELT	Eccentric Loader Terminal (Round Drum)
	ET	ET2000
	FB	Fishtail/Butterfly end
	FL350	Fleat 350
	FLMT	Fleat MT
	GREAT	Great system Crash Units
	MELT	MELT (similar to BCT)
	NA	Not Applicable
	QG	Quad Guard
	RE	Regent
	SAF	Safence Terminal
	SDCC	Steel Drum Crash Cushion
	SK350	SKT 350
	SWRA	Steel Wire Rope End Anchor Block
	TAU2	TAU II
	TEA	Trailing End Anchor Units

Continued on next page

8.0 Railings, continued

Railings End Style, continued	TRACC	TR Attenuating Crash Cushion
	TT	Texas Twist
	UN	Unknown
	X350	Armorflex X 350

Railings Attachments	NA	Not Applicable
	RD	Reflectorised Disks
	UN	Unknown

9.0 Features

Features Type Codes	BR	Bridge
	BUILD	Historic Building
	CALIB	LTTP Calibration Site
	CYCLE	Cycle Path
	DOSLI	DOSLI Benchmark
	DRNOTH	Drain not maintained by NZTA
	EP	Emergency phone
	HMLT	High Mast Light Towers
	INT	Intersection
	INTL	Intersection “T” - Left
	INTR	Intersection “T” - Right
	INTX	Intersection Cross Roads
	ISLAND	Traffic Island
	LOCAL	Local Feature
	MAC	Major Access
	MON	Monument
	PILE	Stockpile Site
	PLAQUE	Plaque/Historic Location
	RES	NZTA Reseal Test site
	REST	Rest Area
	SIGINT	Signal Controlled Intersection
	TRAF	Permanent Traffic Monitoring Site
	TREE	Significant Tree
	TRIAL	Trial Site
	UNDEFI	Undefined
	XING	Rail Crossing

10.0 Signs – Manual of Traffic Signs & Markings (MOTSAM)

10.1

10.2 Regulatory General Signs

Gen. Sign Types	RG1	Speed Limit
	RG1-20	Speed Limit 20km/h
	RG1-30	Speed Limit 30km/h
	RG1-40	Speed Limit 40km/h
	RG1-50	Speed Limit 50km/h
	RG1-50P	Speed Limit 50km/h with PN-1
	RG1-60	Speed Limit 60km/h
	RG1-60P	Speed Limit 60km/h with PN-1
	RG1-70	Speed Limit 70km/h
	RG1-70P	Speed Limit 70km/h with PN-1
	RG1-80	Speed Limit 80km/h
	RG1-80P	Speed Limit 80km/h with PN-1
	RG1-90	Speed Limit 90km/h
	RG2	Speed Limit 100km/h
	RG2.1	Derestriction
	RG3	Limited Speed Zone
	RG4	Speed Limit - TEMPORARY
	RG4-20	TEMPORARY Speed Limit 20km/h
	RG4-30	TEMPORARY Speed Limit 30km/h
	RG4-40	TEMPORARY Speed Limit 40km/h
	RG4-50	TEMPORARY Speed Limit 50km/h
	RG4-60	TEMPORARY Speed Limit 60km/h
	RG4-70	TEMPORARY Speed Limit 70km/h
	RG4-80	TEMPORARY Speed Limit 80km/h
	RG4-90	TEMPORARY Speed Limit 90km/h
	RG5	STOP
	RG6	GIVE WAY
	RG6.1	"_____" TRAFFIC (RG6 supplementary)
	RG6.2	STRAIGHT AHEAD TRAFFIC (RG6 supplementary)
	RG6.3	RIGHT TURNING TRAFFIC (RG6 supplementary)
	RG6R	Roundabout Give Way

Continued on next page

10.2 Regulatory General Signs, continued

Gen. Sign Types – cont.	RG7	No Right Turn
	RG8	No Left Turn
	RG9	NO ENTRY
	RG10	No Turns
	RG11	Turn
	RG12	Turn Left
	RG13	Turn Right
	RG14	ONE WAY
	RG15	No U Turn
	RG16	ROAD CLOSED
	RG17	Keep Left - Single Disc
	RG17.1	Keep Left - Twin Disc
	RG18	WRONG WAY
	RG19	Single Lane Bridge - Give Way (symbolic)
	RG19A	Road Narrows - Give Way (symbolic)
	RG19.1	Single Lane Bridge - Supplementary GIVE WAY
	RG19.1A	Road Narrows - Supplementary GIVE WAY
	RG20	Single Lane - Priority
	RG20A	Road Narrows - Priority
	RG21	Low Overhead Clearance At Electrified Railway Crossing
	RG22	KEEP LEFT UNLESS PASSING
	RG23	No Pedestrians
	RG24	No Cycling
	RG25	Pedestrians
	RG26	Cycle Route
	RG26.1	Cycle Route - BEGINS
	RG26.2	Cycle Route - ENDS
	RG26A	Cycles ONLY
	RG26B	ALL Cycles Must Exit
	RG26C	Shared Path – Pedestrians & Cycles

Continued on next page

10.2 Regulatory General Signs, continued

Gen. Sign Types – cont.	RG26D	Shared Path – Pedestrians & Cycles ONLY (defined positions for users)
	RG27	TURNING TRAFFIC GIVE WAY TO PEDESTRIANS
	RG28	SCHOOL PATROL
	RG29	Overhead Lane Use Arrows
	RG30	Railway Level Crossing STOP ON RED SIGNAL
	RG31	Railway Level Crossing Give Way Combination
	RG32	Railway Level Crossing Stop Sign Combination
	RG33	Railway Level Crossing Flashing Light Signal Combination
	RG34	Keep Right – Single Disc
	RG35	Bus LANE
	RG35.1	TRANSIT LANE

10.3 Regulatory Parking Signs

Parking Sign Types	RP1	No Stopping
	RP1.1	No Stopping At All Times
	RP1.2	No Stopping FOR "_____" km
	RP1.3	No Stopping - ENDS (RP1 Supplementary)
	RP2	No Stopping - Specified Period
	RP2.1	Late Night Extension - (RP2 Supplementary)
	RP3	CLEARWAY - Single Peak Period
	RP3.1	CLEARWAY - Two Peak Period
	RP3.2	BEGINS (RP3, RP3.1 Supplementary)
	RP3.3	ENDS (RP3, RP3.1 Supplementary)
	RP3.4	MON-FRI (Clearway Supplementary)
	RP3.5	CLEARWAY With Parking Restriction
	RP4	Restricted Parking - Standard Hours
	RP4.1	Restricted Parking - Non Standard Hours
	RP4.2	Restricted Parking - Other Times
	RP4.3	Restricted Parking - Late Night Extension (Supplementary)
	RP5	BUS STOP
	RP5.1	BUS STOP - With Arrow
	RP6	TAXI STAND
	RP6.1	TAXI STAND - With Arrow
	RP7	LOADING ZONE
	RP7.1	LOADING ZONE - With Arrow
	RP7.2	Loading Zone - GOODS VEHICLES ONLY (Supplementary)
	RP8	Motorcycle Parking
	RP8.1	Motorcycle Parking - With Arrow
	RP9	Cycle Stand
	RP9.1	Cycle Stand - With Arrow
	RP10	Disabled Parking
	RP11	Zone Parking Notification
	RP12	Repeater Zone Parking

10.4 Regulatory Heavy Vehicles Signs

Heavy Vehicle Sign Types	RH1	Road Classification - Heavy Motor Vehicles
	RH2	HEAVY VEHICLES - MAX LENGTH
	RH4	HEAVY VEHICLE - BRIDGE LIMITS
	RH5	Heavy Vehicle - RH4 Supplementary - " ___ "m
	RH6	HEAVY VEHICLE - AXLE LIMIT – "__" kg

10.5 Temporary Warning Signs

Special Note

Temporary warning signs are not to be stored in the asset register, as they are typically not owned by NZTA. However where there are known hazards that have permanently installed temporary warning signs that are owned by NZTA these are to be collected.

Example

A "Slippery Surface – Ice/Grit" sign installed at a known high-risk icing area with hinged signs that are opened at times when temporary hazard exists.

Refer to the Asset Engineer (Information), NZTA National Office, Highways and Network Operations Group for any proposed modifications

Allowable Codes

TW2.1	Other Hazard - FLOODING
TW2.6	Other Hazard – LOGGING TRUCKS
TW4.1	Slippery Surface – ICE/GRIT
TW6	Cattle
TW6.1	Sheep

10.6 Permanent Warning Signs

Permanent Warning Sign Types	PW1	Stop Ahead "_____" m
	PW1-3.1	Advance Warning of Speed Limit – 10km/h "____"m
	PW1-3.2	Advance Warning of Speed Limit – 20km/h "____"m
	PW1-3.3	Advance Warning of Speed Limit – 30km/h "____"m
	PW1-3.4	Advance Warning of Speed Limit – 40km/h "____"m
	PW1-3.5	Advance Warning of Speed Limit – 50km/h "____"m
	PW1-3.6	Advance Warning of Speed Limit – 60km/h "____"m
	PW1-3.7	Advance Warning of Speed Limit – 70km/h "____"m
	PW1-3.8	Advance Warning of Speed Limit – 80km/h "____"m
	PW1-3.9	Advance Warning of Speed Limit – 90km/h "____"m
	PW2	Give Way Ahead "_____" m
	PW3	Traffic Signals
	PW4	Merging Traffic
	PW5	Diverge
	PW6	Two Way
	PW7	Two Way Ahead "_____" m
	PW8	Rotary Junction
	PW9	Cross Roads - Controlled (priority route ahead)
	PW9.1	Cross Roads - Controlled (priority route turns)
	PW10	T-Junction - Controlled
	PW10.1	T-Junction - Uncontrolled
	PW11	Side Road Junction - Controlled
	PW11.1	Side Road Junction - Uncontrolled
	PW12	Y-Junction - Controlled
	PW12.1	Y-Junction - Uncontrolled
	PW13	Railway Crossing On Side Road - Controlled
	PW13.1	Railway Crossing On Side Road - Uncontrolled
	PW13.2	Railway Crossing At T-Junction - Controlled
	PW13.3	Railway Crossing At T-Junction - Uncontrolled

Continued on next page

10.6 Permanent Warning Signs, continued

Permanent Warning Sign Types, continued	PW14	Railway Level Crossing Position Indicator
	PW15	Railway Level Crossing "_____" TRACKS
	PW16	Sharp Curve - Approx 90 degrees
	PW17	Curve - 15 to 90 degrees
	PW18	Curve - 90 to 120 degrees
	PW19	Curve - Greater Than 120 degrees
	PW20	Reverse Curve - Less Than 60 degrees
	PW21	Reverse Curve - Greater Than 60 degrees
	PW22	Reverse Curve - Decreasing Radii
	PW23	Reverse Curves (less than 1km in extent)
	PW24	Winding Road NEXT "_____" km
	PW25	Curve Advisory Speed (never erected separately)
	PW25-05	Curve Advisory Speed 5km/h
	PW25-15	Curve Advisory Speed 15km/h
	PW25-25	Curve Advisory Speed 25km/h
	PW25-35	Curve Advisory Speed 35km/h
	PW25-45	Curve Advisory Speed 45km/h
	PW25-55	Curve Advisory Speed 55km/h
	PW25-65	Curve Advisory Speed 65km/h
	PW25-75	Curve Advisory Speed 75km/h
	PW25-85	Curve Advisory Speed 85km/h
	PW25-95	Curve Advisory Speed 95km/h
	PW26	CONCEALED Exit On Curve
	PW27	Steep Grade – Downgrade
	PW27.1	Steep Grade – Upgrade
	PW28	TRUCKS USE LOW GEAR (PW27 Supplementary)
	PW29	Pedestrians
	PW30	Pedestrian Crossing
	PW31	Children
	PW32	SCHOOL or Kindergarten
	PW33	SCHOOL Crossing

Continued on next page

10.6 Permanent Warning Signs, continued

Permanent Warning Sign Types, continued	PW34	SCHOOL BUS ROUTE
	PW34A	SCHOOL BUS TURNS
	PW35	Cyclists
	PW36	Horses
	PW37	Stock (Cattle)
	PW37.1	Stock (Sheep)
	PW38	Sudden Dip
	PW39	Hump
	PW40	Uneven Surface
	PW41	Slippery Surface (never erected separately)
	PW41.1	Slippery Surface - WHEN FROSTY
	PW41.1A	Slippery surface - WHEN FROSTY - NEXT"__" km
	PW41.2	Slippery Surface – WHEN WET
	PW41.3	Slippery Surface - GRAVEL ROAD
	PW42	Slips/Falling Debris
	PW43	Road Narrows (Left or Right Side Narrowing)
	PW42	Slips/Falling Debris
	PW43	Road Narrows (Left or Right Side Narrowing)
	PW44	Narrow Bridge
	PW44.1	Narrow Bridge - CAUTION WIDE VEHICLES
	PW45	Low Overhead Clearance - Advance Warning
	PW46	Low Overhead Clearance On Structure Or Tunnel
	PW47	Overhead Electric Cable (never erected separately)
	PW48	Wind Gusts
	PW49	Fire Station
	PW50	Trucks
	PW51	Aircraft/Helicopters
	PW52	Tunnel
	PW53	Other Hazard (never erected separately)
	PW54	Other Hazard - FORD

Continued on next page

10.6 Permanent Warning Signs, continued

Permanent Warning Sign Types, continued	PW55	Other Hazard – CATTLE STOP
	PW56	Other Hazard - GATE
	PW57	Railway Level Crossing (“Steam Train”)
	PW57.1	Railway Level Crossing Ahead “__” m
	PW58	Railway Level Crossing, Flashing Light Signals Ahead
	PW59	Railway Level Crossing, “LOOK FOR TRAINS”
	PW60	Railway Level Crossing, Substantially at a right angle
	PW60.1	Railway Level Crossing, at an oblique angle < 90^{o}
	PW60.2	Railway Level Crossing, at an oblique angle > 90^{o}
	PW61	Railway Level Crossing, intermediate advance warning
	PW62	Railway Level Crossing on a side road, intermediate advance warning
	PW63	Tram
	PW64	Advance Warning Traffic Signal – PREPARE TO STOP
	PW64.1	Advance Warning Traffic Signal – HIDDEN QUEUE
	PW64.2	Advance Warning Traffic Signal – QUEUED VEHICLES
	PW65	Belisha Beacon Disk
	PW65A	Belisha Beacon Internally Illuminated Globe
	PW66	Chevron Horizontal Curve Sight Board
	PW66-15	Chevron Board – Advisory Speed 15 km/h
	PW66-25	Chevron Board – Advisory Speed 25 km/h
	PW66-35	Chevron Board – Advisory Speed 35 km/h
	PW66-45	Chevron Board – Advisory Speed 45 km/h
	PW66-55	Chevron Board – Advisory Speed 55 km/h
	PW66-65	Chevron Board – Advisory Speed 65 km/h
	PW66-75	Chevron Board – Advisory Speed 75 km/h
	PW66-85	Chevron Board – Advisory Speed 85 km/h
	PW66-95	Chevron Board – Advisory Speed 95 km/h
	PW67	Chevron Curve Indicator
	PW68	Chevron Board – T Intersections
	PW69	Chevron Board - Roundabouts
	PW99	Kiwi Crossing

10.7 Guide Signs

Advanced Direction Signs	G-AD1	Advanced Direction (Stack) - Cross roads
	G-AD2	Advanced Direction (Stack) - Skew intersection
	G-AD3	Advanced Direction (Stack) - "T" intersection
	G-AD4	Advanced Direction (Map) - "T" or cross roads
	G-AD5	Advanced Direction (Map) - Roundabout
	G-ADN	Advanced Direction (Map) - Street Name Sign
Advanced Lane Direction signs	G-AL1	Advanced Lane Direction - Arrow
	G-AL2	Advanced Lane Direction - Message
Intersection Direction Signs	G-ID1	Intersection Direction
	G-ID1A	Intersection Direction sign with Street Name Sign
	G-ID2	Intersection Direction - with arrow
	G-ID2A	Intersection Direction - with arrow and St. Name Sign
	G-ID3	Intersection Direction - with route marker
	G-ID3A	Intersection Direction - route marker with St. Name Sign
	G-ID4	Intersection Direction - Urban
	G-ID4A	Intersection Direction - Urban with Street Name Sign
	G-ID5	Intersection Direction - "T"
	G-ID5A	Intersection Direction - "T" with Street Name Sign
	G-ID6	Intersection Direction – “Fingerboard” Street Name Sign
Confirmation Direction Signs	G-CD1	Confirmation Direction
Street Name Signs	G-SN1	Street Name Sign (white on blue)

10.7 Guide Signs, continued

Place Name Signs	G-PN1	Place Name
Route Marker Signs	G-RM1	SH Route Marker - single numeral
	G-RM2	SH Route Marker - double numeral
	G-RM3	Route BEGINS
	G-RM4	Route ENDS

10.8 Motorist Service Signs

Advance Signs – Service Beside the Highway	MS1.1	One Service "__" ON left/right
	MS1.2	Two Services "__" ON left/right
	MS1.3	Three Services "__" ON left/right
	MS1.4	Four Services "__" ON left/right
Advance Signs – Service on a Side Road	MS2.1	One Service TURN left/right "__" m
	MS2.2	Two Services TURN left/right "__" m
	MS2.3	Three Services TURN left/right "__" m
	MS2.4	Four Services TURN left/right "__" m
Position Signs – with Chevron	MS3.1	One Service with chevron
	MS3.2	Two Services with chevron
	MS3.3	Three Services with chevron
	MS3.4	Four Services with chevron
Position Signs – with Arrow	MS4.1	One Service with arrow
	MS4.2	Two Services with arrow
	MS4.3	Three Services with arrow
	MS4.4	Four Services with arrow
	MSR	Radio Information

10.9 Tourist Signs

Tourist Information Signs	TS1	Feature "__" m ON left/right
	TS2	Feature TURN left/right "__" m
	TS3A	Position Sign – One line description with chevron
	TS3B	Position Sign – Two line description with chevron
	TS4	Feature Name with Arrow
	TS5	Major Tourist Attractions – Special information
	TSW	Welcome to " "
Tourist Route Sign	THT	Tourist Heritage Trail
	TR1	Tourist Route Marker – Arrow only
	TR2	Tourist Route Marker – Arrow and route number
	TR3	Tourist Route Marker – END and route number
	TR4	TOURIST DRIVE TURN left/right "__" m
	TR5	TOURIST DRIVE with Route Marker and Chevron
	TR6	TOURIST DRIVE LENGTH "__" km FOLLOW route marker
	TRM	Touring Route Marker - symbolic

10.10 Information General Signs

General Information Signs	IG01	NO EXIT
	IG02	TURN LEFT AT ANY TIME WITH CARE
	IG03	BELLS OFF (Railway level crossing)
	IG04	HEAVEY TRAFFIC BY PASS “_____” m
	IG05	HEAVEY TRAFFIC BY PASS
	IG06	PASSING LANE 400m AHEAD
	IG06.1	PASSING LANE “__” km AHEAD
	IG07	PASSING BAY “_____”m
	IG08	SLOW VEHICLE BAYS NEXT "_____"km
	IG09	SLOW VEHICLE BAY "_____"m
	IG10	SLOW VEHICLE BAY with arrow
	IG11	CONSTRUCTION ZONE with arrow
	IG12	FINGER BOARD (public amenities)
	IG13	DISTRICT BOUNDARY
	IG14	RIVER/STREAM
	IG15	ELEVATION “____”m
	IG16	____SUMMIT “____”m
	IG17	HEAVY VEHICLES PLEASE NO ENGINE BRAKES NEXT “___”km
	IG18	STOCK EFFLUENT DISPOSAL “____”m ON RIGHT
	IG19	STOCK EFFLUENT DISPOSAL with arrow
	IG20	Cyclists – USE LEFT SHOULDER
	IG21	Cyclists – USE RAMP (with arrow)
	IG22	Cyclists – CROSS HERE WITH CARE (with arrow)
	IG23	USE HEADLAMPS IN TUNNEL
	IG24	STOPPING BAY “__” m
	IG25	STOPPING BAY (with arrow)

11.0 Signs – Miscellaneous

Warning Miscellaneous Signs	WM01	RESIDENTIAL AREA
	WM02	AGED PERSONS
	WM03	Warning (Miscellaneous Sign) - User Defined
	WM04	Warning (Miscellaneous Sign) - User Defined
	WM05	SPEED CAMERA AREA
	WM06	WEIGH STATION AHEAD
	WM07	TRUCKS STOP - Weigh Station
	WM08	NO TRUCKS
	WM09	LEFT LANE EMERGENCY VEHICLES ONLY
	WM10	BRIDGE LANES OPEN
	WM11	USING LANE WITH X PROHIBITED
	WM12	SIGNALS AHEAD
	WM13	SLOW – LANE CONTROL
	WM14	LANE CONTROL SIGNALS AHEAD
	WM15	ELECTRONIC WARNING – ICE
	WM16	ELECTRONIC WARNING - VARIABLE

Warning Motorway Signs	WMW02	EXIT (Advisory Speed)
	WMW03	LANE ENDS 200 metres

11.0 Signs – Miscellaneous, continued

Information Miscellaneous Signs

IM01	Speedo Test Warning
IM02	Speedo Test Start
IM03	Speedo Test End
IM04	ROAD INFORMATION
IM05	CHECK YOUR LIGHTS
IM06	*This code is not used*
IM07	*555 Traffic Patrol
IM10	Hospital
IM11	Motorist Amenities
IM12	Caravan Park
IM13	Caravan Waste Disposal
IM14	Camping Area
IM15	Emergency Telephone
IM21	Airport Direction (Pictorial)
IM22	Flucal Children Crossing
IM23	No Horses
IM24	Funeral

11.0 Signs – Miscellaneous, continued

Information Motorway signs	IMW01	Advance Exit
	IMW02	Exit Direction
	IMW03	EXIT
	IMW04	Bus LANE AHEAD
	IMW05	Bus LANE ENDS
	IMW06	Bus LANE "_____" (Specified time)
	IMW10	Advance Exit (Overhead)
	IMW11	Exit Direction (Overhead)
	IMW12	Exit (Overhead)
	IMW20	Confirmatory Destination
	IMW30	MOTORWAY BEGINS
	IMW31	MOTORWAY ENDS 400 m
	IMW32	MOTORWAY ENDS
	IMW33	MOTORWAY (ramp)
	IMW34	MOTORWAY ENDS (ramp)

Locational Reference Signs	LR-RS	Reference Station
	LR-ERP	Established Routes Position
	LR-RSR	Ramp Reference Station
	LR-RSW	Roundabout Reference
	LR-BSN	Bridge Serial Number
	LR-CSN	Culvert Serial Number
	LR-TSN	Tunnel Serial Number
	LR-KMP	Kilometre

11.0 Signs – Miscellaneous, continued

Miscellaneous Signs	AAH	Adopt a Highway
	BRP	Bridge Route Position
	CPM	Culvert Position Marker
	CS	Calibration Site
	CSM	Calibration Site Marker
	DOC	Department of Conservation
	DRP	Dumping of Rubbish Prohibited
	FH	Fire Hazard (Grapefruit Sign)
	LNF	LIGHT NO FIRES
	OM	Obstruction Marker
	SDM	Subsoil Drain Marker

12.0 Hazard Markings

Hazard Markers	H05	Hazard Marker
	H07	Bridge End Marker
	H08	Crash Cushion Hazard Marker

13.0 Roadmarkings

Roadmarking Types	M01	Centreline 100mm continuous
	M01A	Centreline 150mm continuous
	M02	Centreline 100mm 3 x 7
	M02A	Centreline 150mm 3 x 7
	M03	No Overtaking 100mm continuous
	M03A	No Overtaking 150mm continuous
	M04	No Overtaking advance 100mm 13 x 7
	M04A	No Overtaking advance 150mm 13 x 7
	M06	RRPM yellow mono-directional
	M07	RRPM white mono-directional
	M08	RRPM white bi-directional
	M09	RRPM white/yellow bi-directional
	M10	RRPM yellow bi-directional
	M11	RRPM red (edge line) mono-directional
	M12	Lane Line 100mm 3 x 7
	M13	Edge 150mm continuous
	M14	Edge 75mm continuous
	M15	Edge 100mm continuous
	M15A	Edge 200mm continuous
	M16	Painted shoulder
	M17	Painted island
	M18	Island pre warn
	M19	Right turn bay
	M20	Pedestrian crossing
	M21	Pedestrian crossing diamond
	M22	Signalised mid-block crosswalk
	M23	Signalised intersection crosswalk
	M24	Railway crossing
	M25	Emergency exit sig sh white
	M26	CROSS ROADS
	M27	Passing Lane Taper

Continued on next page

13.0 Roadmarkings, continued

Roadmarking Types, continued	M28	SLOW
	M29	ONE LANE BRIDGE
	M30	STOP
	M31	*GIVE WAY – inactive do not use*
	M32	NO LEFT TURN
	M33	NO RIGHT TURN
	M34	ONE WAY
	M35	NO ENTRY
	M36	NO TURNS
	M37	NO EXIT
	M38	Speed circles
	M3850	Speed circle 50km/h
	M3870	Speed circle 70km/h
	M40	straight arrow
	M41	right turn arrow
	M42	Left turn arrow
	M43	Combination arrows
	M44	TURN LEFT
	M45	TURN RIGHT
	M46	KEEP CLEAR
	M47	DISABLED PARKING
	M48	NO PARKING
	M49	CHILDREN
	M50	STOP AHEAD
	M51	*GIVE WAY AHEAD – inactive do not use*
	M52	PEDESTRIAN CROSSING AHEAD
	M53	SCHOOL PATROL
	M55	Destination Legend
	M56	SCHOOL

Continued on next page

13.0 Roadmarkings, continued

Roadmarking Types, continued	M57	SPEED HUMP
	M58	Painted Speed Hump
	M59	Intersection Continuity Lines (150mm 1 x 3)
	M59A	Intersection Continuity Lines (200mm 1 x 3)
	M60	No Stopping Line (yellow) 100mm 1 x 1
	M61	Loading zone
	M62	Bus stop
	M63	Taxi stand
	M64	Other zone
	M65	Park Limit Lines parallel
	M66	Park meter bays
	M67	Park bays angle
	M70	Fire hydrant
	M71	CAUTION
	M72	CYCLE LANE
	M73	Cycle symbol
	M74	Flush Median
	M75	BUS LANE
	M76	BUS LANE ENDS
	M77	Traffic Signal Limit Lines
	M78	Giveway Limit Lines
	M79	Stop Limit Lines
	M80	Convex Mirror
	M81	Give Way Triangle symbol
	M82	T2 lanes
	M83	Designated Lane (Cycle/Bus Lanes, etc.)

13.0 Roadmarkings, continued

Roadmark Materials	CP	Cold Applied Plastic Line Marking
	EP	Epoxy Resin (for coloured surfacing)
	PM	Raised Pavement Marker
	PT	*Paint – inactive (do not use)*
	RP	Reflectorised Paint
	TA	*Thermoplastic Audible – inactive (do not use)*
	TP	Long Life Flat
	TR	*Long Life Profile – inactive (do not use)*
	UN	Unknown

Roadmark Colour	BK	Blacking out Paint
	BU	Blue
	GR	Green
	RE	Red
	UN	Unknown
	WH	White
	YE	Yellow

14.0 Retaining Walls

Retaining Walls Material	ARMCO	Armco
	COMP	Steel Composite
	CON	Concrete
	DRUM	Steel Drum
	EARTH	Earth
	GALV	Galvanised Steel
	ROCK	Rock
	STEEL	Steel
	STONE	Stone
	WOOD	Wood

Retaining Walls Type	ANCH	Anchored
	CANT	Cantilever
	CONC	Concrete
	COUNT	Counterfort
	CRIB1	Single Crib
	CRIB2	Double Crib
	CRIB3	Triple Crib
	EARTH	Reinforced Earth
	GABN	Gabion
	GRAV	Gravity
	MCRIB	Minicrib
	PILED	Sheet Pile
	ROCK	Rock

15.0 Street Lighting

Pole Purpose	A	Anchor pole
	B	Trolley/Tram Bus pole
	I	Belisha Beacon
	E	Electrical distribution
	F	Transformer
	G	Gantry
	H	High Mast Light Tower
	L	Lighting unit
	N	No Pole
	P	Pedestrian Light
	S	Switch gear
	T	Telephone aerial
	Z	Traffic Signal

Bracket Type	DC	Double Curved
	DM	Double Mitred
	SC	Single Curved
	SM	Single Mitred
	UKN	Unknown

Light Control Mechanism	O	Other
	P	Photocell
	R	Relay
	T	Timeswitch
	U	Unknown

15.0 Street Lighting, continued

Pole Shape	CIRC	Circular
	HEX	Hexagonal
	IB	I Beam
	LATT	Lattice
	NONE	No Pole
	OCT	Octagonal
	RECT	Rectangular
	TRI	Triangular
Pole Mount	B	Building
	BR	Bridge (not corbel type)
	CO	Corbel (Bridge mount – other type)
	F	Flange mounted
	G	Ground plant
	NO	No Pole
	S	Shear Base
	T	Tunnel
Pole Materials	CON	Concrete
	FIBR	Fibreglass
	HSTE	High Steel (wind resistant)
	NA	Not Applicable (no pole)
	SPC	Spun Concrete
	ST	Steel Powder Coated
	STEE	Steel (Standard Steel)
	WOOD	Wood

16.0 Shoulders

Shoulder Material	AC	Asphaltic Concrete
	COMP	Composite
	CONC	Concrete
	GRASS	Grass
	INBLK	Interlocking Blocks
	METAL	Metal
	OTHER	Other
	SEAL	*Seal – do not use*

17.0 Intelligent Transport Systems (ITS)

ITS Type	1	Dynamic Message Signs
	2	Portable VMS (PVMS)
	3	Lane Signal Units
	4	Variable Speed Signs
	5	CCTV Camera
	6	CCTV Lens
	7	CCTV Housing
	8	Weather Monitoring Stations
	9	CCTV PTZ Unit
	10	Support Structure
	11	Traffic Data Collection
	12	Weigh in Motion
	13	Video Data Recorder
	14	Tunnel Fire Detection
	15	Incident Detection
	16	Tunnel Sprinkler Monitoring
	17	Tunnel Ventilation Monitoring & Control
	18	Tunnel Air Quality Sensor
	19	Tunnel Spillage Sensor
	20	Over-height Detection
	21	Telecommunications
	22	Ice Detection System
	23	Intelligent Road Studs
	24	Emergency Phones
	25	Cabinet

17.0 Intelligent Transport Systems (ITS), continued

ITS Manufacturer	1	Mitsubishi
	2	DVTel
	4	Sony
ITS State	1	In Service
	2	In Store
	3	Unavailable
	4	Disposed