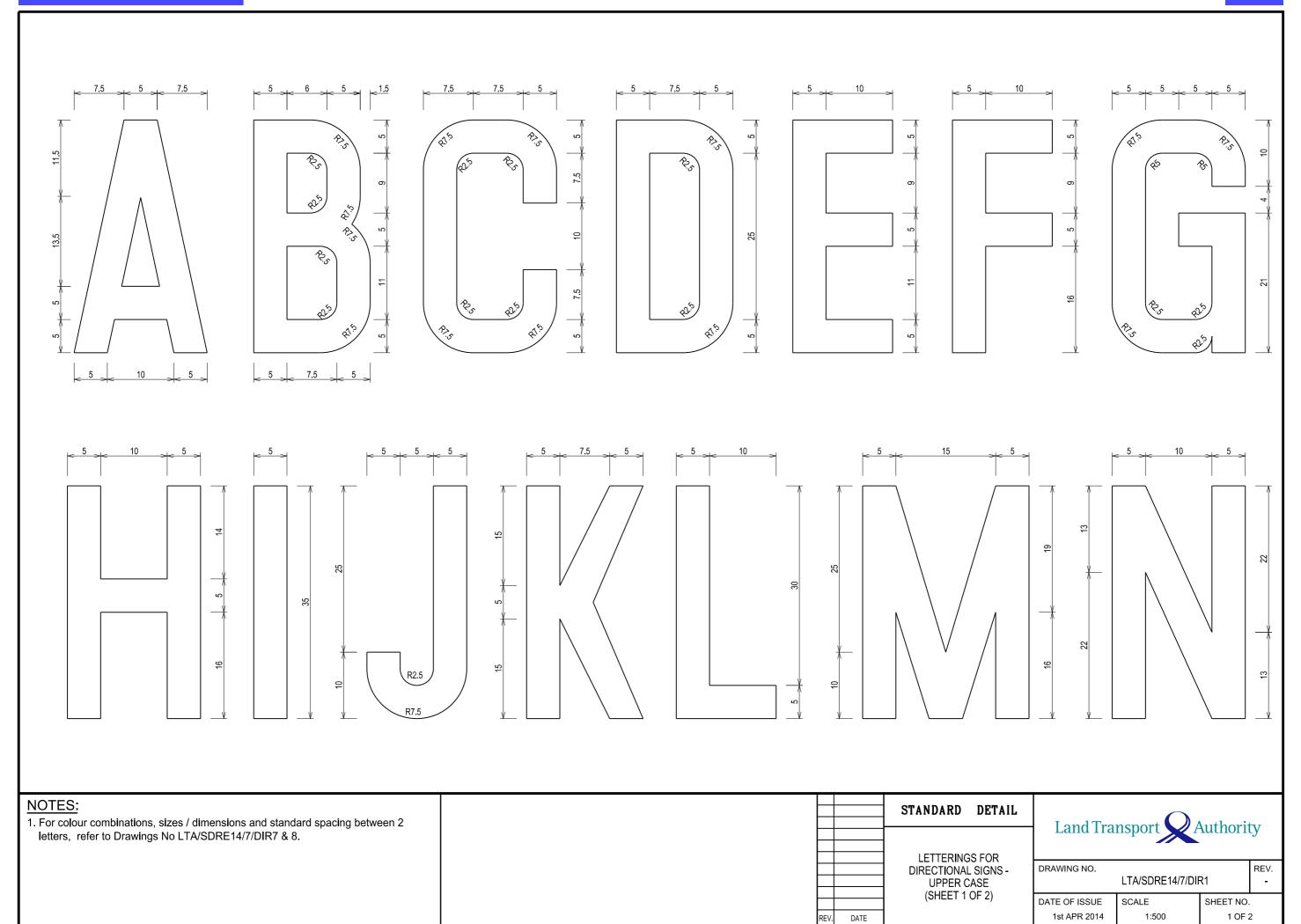
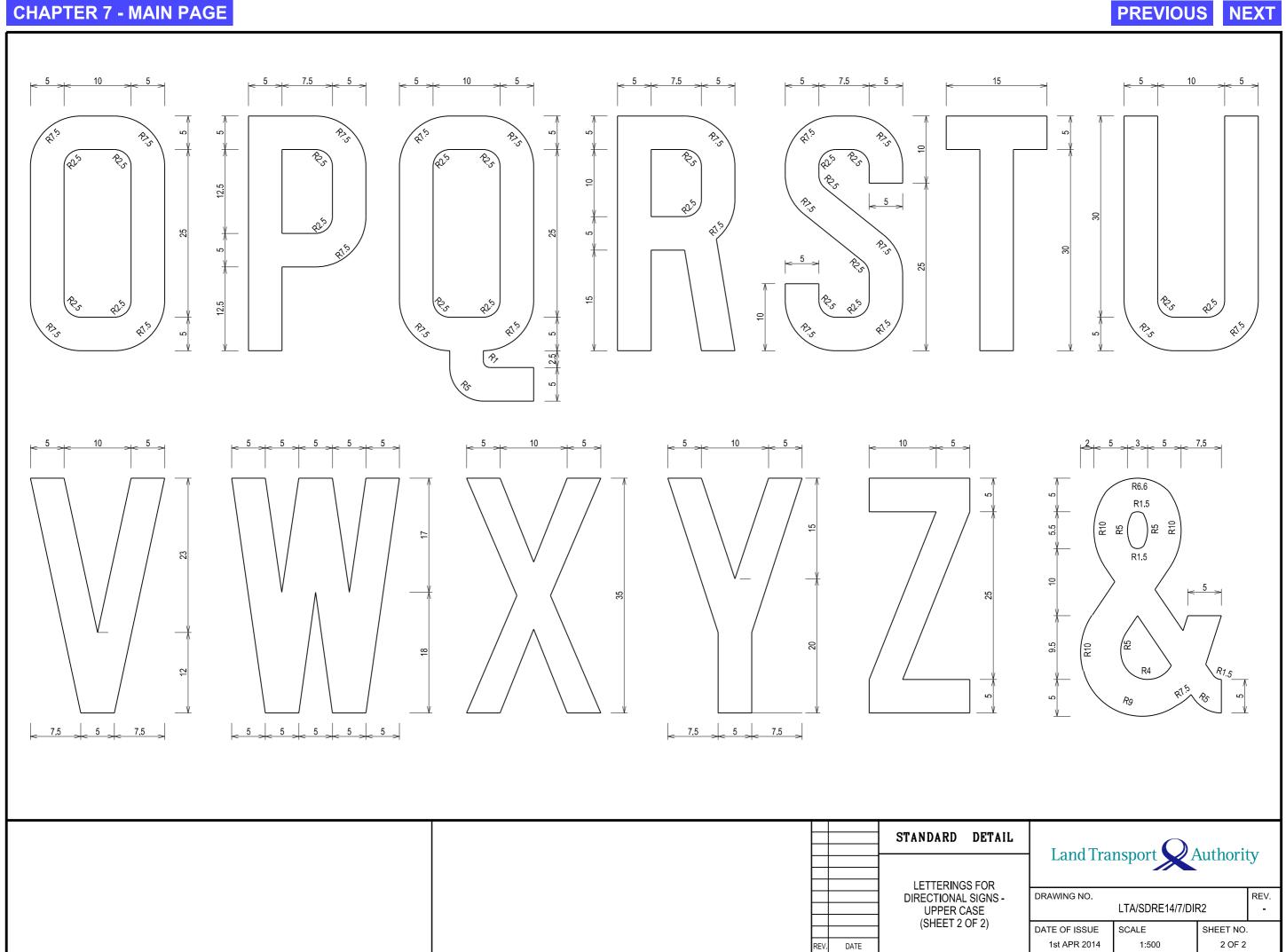
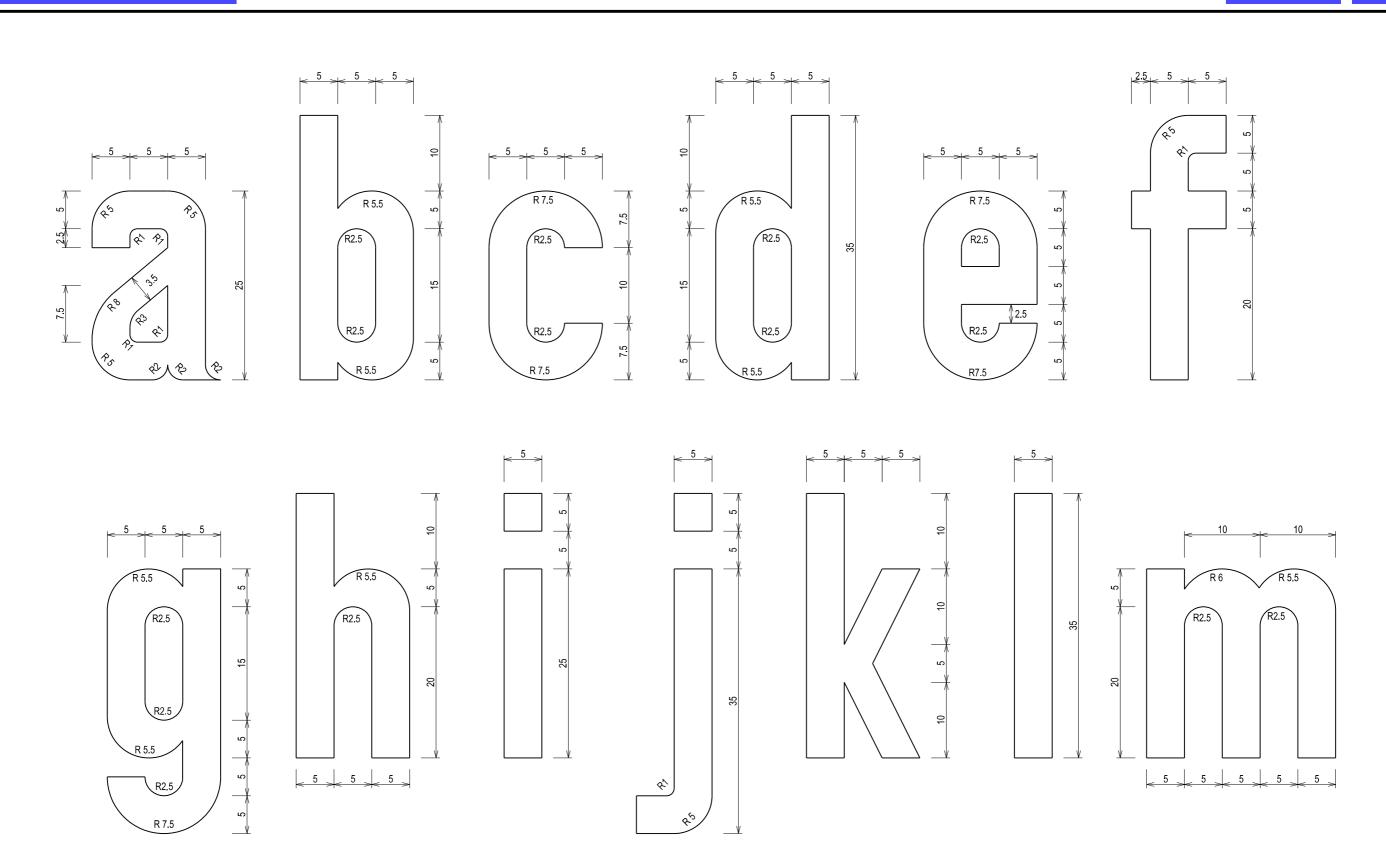


# CHAPTER 7 DIRECTIONAL SIGNS

DRAWING TITLE	DRAWING NO.	REVISION
LETTERINGS FOR DIRECTIONAL SIGNS - UPPER CASE (SHEET 1 OF 2)	LTA/SDRE14/7/DIR1	-
LETTERINGS FOR DIRECTIONAL SIGNS - UPPER CASE (SHEET 2 OF 2)	LTA/SDRE14/7/DIR2	-
LETTERINGS FOR DIRECTIONAL SIGNS - LOWER CASE (SHEET 1 OF 2)	LTA/SDRE14/7/DIR3	-
LETTERINGS FOR DIRECTIONAL SIGNS - LOWER CASE (SHEET 2 OF 2)	LTA/SDRE14/7/DIR4	_
NUMBERS FOR DIRECTIONAL SIGNS	LTA/SDRE14/7/DIR5	-
ARROWS FOR DIRECTIONAL SIGNS	LTA/SDRE14/7/DIR6	-
NOTES FOR DIRECTIONAL SIGNS (SHEET 1 OF 2)	LTA/SDRE14/7/DIR7	A
NOTES FOR DIRECTIONAL SIGNS (SHEET 2 OF 2)	LTA/SDRE14/7/DIR8	$\left\{ \begin{array}{c} A \end{array} \right\}$







## NOTES:

For colour combinations, sizes / dimensions and standard spacing between 2 letters, refer to Drawings No. LTA/SDRE14/7/DIR7 & 8.

LETTERINGS FOR DIRECTIONAL SIGNS - LOWER CASE (SHEET 1 OF 2)

REV.

DATE

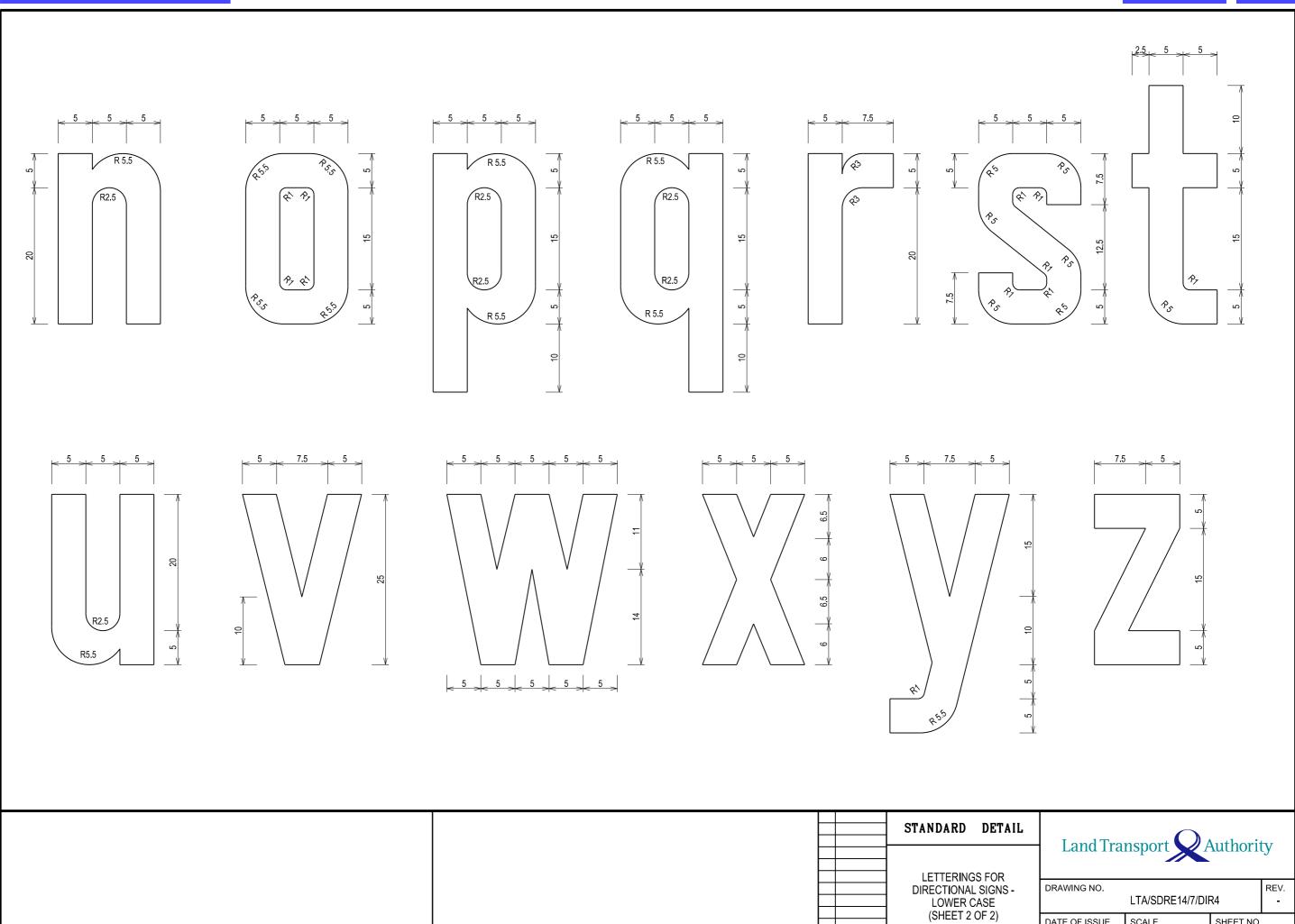
Land Transport Authority

DRAWING NO. LTA/SDRE14/7/DIR3

 DATE OF ISSUE
 SCALE
 SHEET NO.

 1st APR 2014
 1:500
 1 OF 2

REV.



SHEET NO.

2 OF 2

DATE OF ISSUE

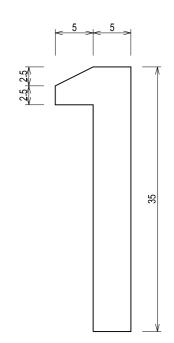
REV.

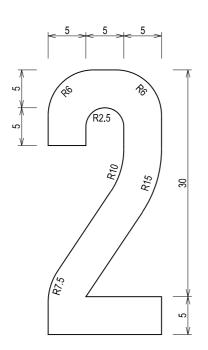
DATE

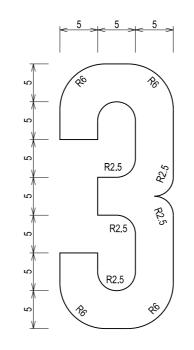
1st APR 2014

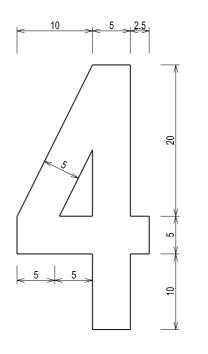
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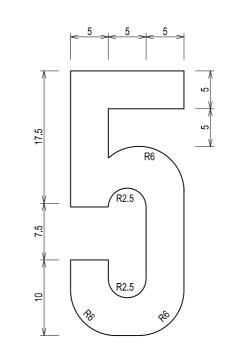
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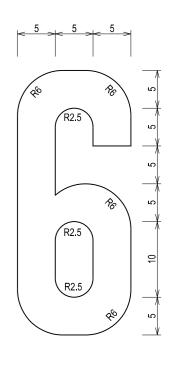


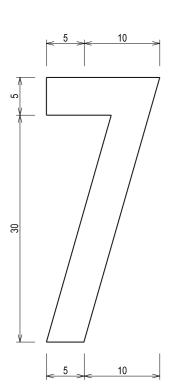


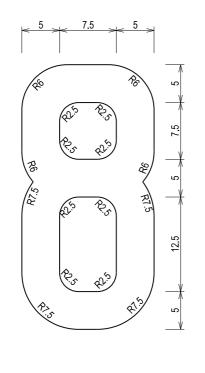


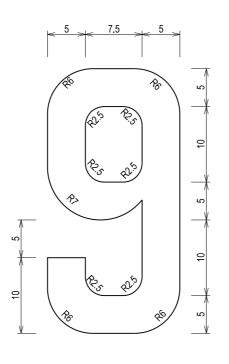


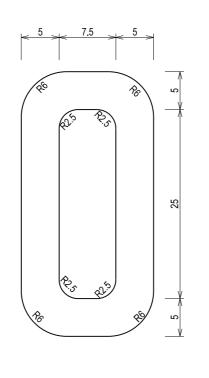


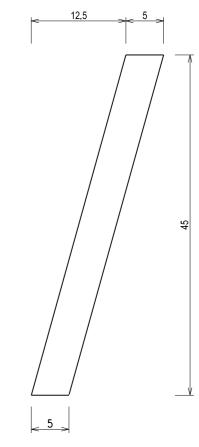


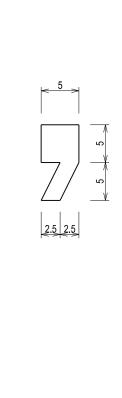












# NOTES:

1. For colour combinations, sizes / dimensions and standard spacing between 2 letters, refer to LTA/SDRE14/7/DIR7 & 8.

STANDARD DETAIL

NUMBERS FOR DIRECTIONAL SIGNS

REV. DATE

Land Transport	Authority
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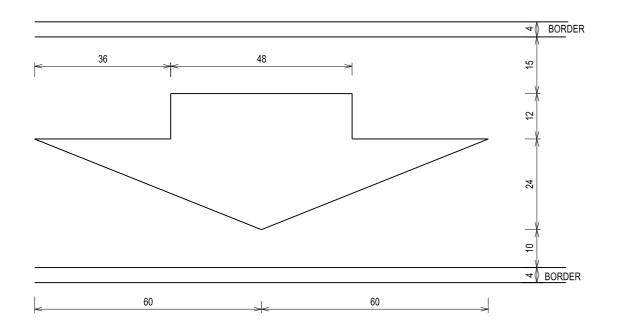
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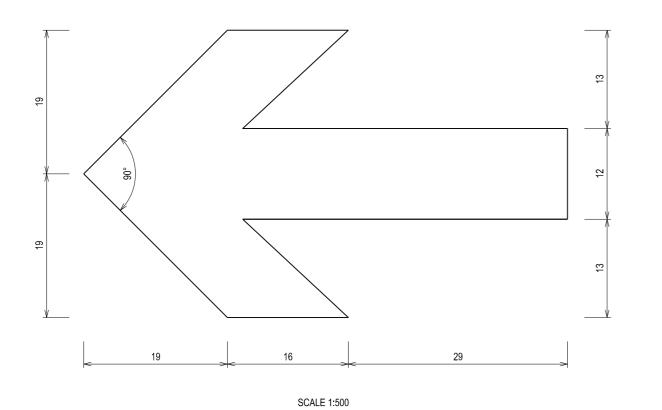
LTA/SDRE14/7/DIR5

 DATE OF ISSUE
 SCALE
 SHEET NO.

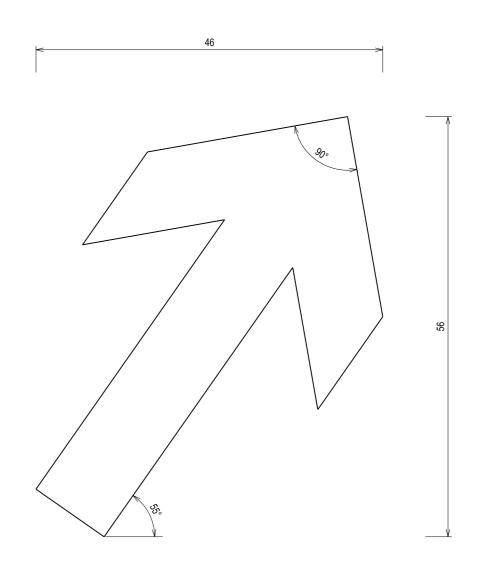
 1st APR 2014
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 1 OF 1

REV.





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SCALE 1:500

# NOTES:

 For colour combinations, sizes / dimensions and standard spacing between 2 letters, refer to LTA/SDRE14/7/DIR7 & 8. STANDARD DETAIL

ARROWS FOR DIRECTIONAL SIGNS

Land Transport Authority

DRAWING NO.

LTA/SDRE14/7/DIR6

DATE OF ISSUE SCALE SHEET NO.

1st APR 2014 AS SHOWN 1 OF 1

REV.

MULTIPLICATION FACTORS FOR DIFFERENT SIGNS

	DIRECTIONAL SIGN	ADVANCE DIRECTIONAL SIGN	FACILITY AND INFORMATION SIGN	GANTRY SIGN
EXPRESSWAY	10	10	10	12 (300)
OTHER ROAD	6	6	6*	12# (300) 10 (250)
MINOR ROAD	4	4	4	12# (300) 10 (250)

 <sup>\*</sup>Factor 6 is used if the sign is mounted with one or more directional signs on the same frame. if on its own, factor 4 is recommended.

- 2. #Factor 12 is preferred if space on the gantry sign permits.
- 3. ( ) Figures in bracket are the x-heights of the actual sizes of characters.

TABLE 2: RECOMMENDED SPACING BETWEEN LOWER CASE LETTERS

LETTERS	WHEN COMBINED WITH LETTERS	LETTER SPACING *
ALL EXCEPT j, g, q, y	j	2
a, b, d, g, h, i, j, I, m, n, o, p, q, u	ALL ) (CLOSE BRACKET)	5 7
e, c, s	v, w, x, y ALL OTHERS ) (CLOSE BRACKET)	4 5 7
f, t	v, w, x, y, z, f, t, a, c, e, s ALL OTHERS ) (CLOSE BRACKET)	4 5 7
k, x	v, w, y ALL OTHERS ) (CLOSE BRACKET)	4 5 7
r, v, w, y, z	v, w, x, y, z f, t, a, c, e, s ALL OTHERS ) (CLOSE BRACKET)	3 4 5 7
'(APOSTROPHE)	ALL	
, (COMMA)	ALL	10
	ALL	20
( (OPEN BRACKET)	ALL	7

<sup>\*</sup> For x-heights of 100mm, 150mm, 250mm and 300mm, the actual letter and numeral spacings will be multiplied by 4, 6, 10 & 12 respectively.

RECOMMENDED SPACING BETWEEN INITIAL CAPITAL AND LOWER CASE LETTERS

	INITIAL	WHEN COMBINED WITH LOWER-CASE LETTERS	LETTER SPACING *
$\langle$	ALL	j ) (CLOSE BRACKET)	2 7
,	A, C, E	v, w f, t, x, y ALL OTHERS	3 4 5
	B, D, G, H, I J, M, N, O, Q, R, S, U	f, t, v, w, x, y ALL OTHERS	4 5
	F, K, P, T, V W, X, Y, Z	v, w, x, y ALL OTHERS	3 4
	L	f, t, v, w, x, y ALL OTHERS	3 4
	'(APOSTROPHE)	ALL	5
	, (COMMA)	ALL	10
	~/~~	ALL	22
(1	( (OPEN BRACKET)	ALL	7
/			

<sup>\*</sup> For x-heights of 100mm, 150mm, 250mm and 300mm, the actual letter and numeral spacings will be multiplied by 4, 6, 10 & 12 respectively.

RECOMMENDED SPACING BETWEEN UPPER CASE LETTERS

*	LETTER SPACING	WHEN COMBINED WITH LETTERS	LETTERS	
$\rightarrow$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	) (CLOSE BRACKET)	ALL	1
$\neg \uparrow$	4	ALL	A, L, V, Y	Y
	4	A, J, V, Y	B, C, D, E, F, G, H, I, J, K,	
	5	ALL OTHERS	M, N, Ó, P, Q, R, S, T, U, W, X, Z	
	5	ALL	'(APOSTROPHE)	
	10	ALL	, (COMMA)	
$\overline{}$	20	ALL		
	7	ALL	( (OPEN BRACKET)	(
	· ·	ALL	X, Z '(APOSTROPHE) , (COMMA)	

Greater spacings are recommended for short form of all expressway names (eg. ECP, PIE, BKE etc) . It happens in two way:

- 1. Expressway name with legend in brackets ie. ECP (Changi Airport). The spacings between E, C, and P will be 8mm, which is 1.6 times the spacing in table 4.
- 2. Only expressway name ie. ECP. The spacing between letters will be \* double of item 1.

For x-heights of 100mm, 150mm, 250mm and 300mm, the actual letter and numeral spacings will be multiplied by 4, 6, 10 & 12 respectively.

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		NOTES FOR DIRECTIONAL SIGNS (SHEET 1 OF 2)		DRAWING NO.	LTA/SDRE14/7/DIF	R7	REV. A
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# TABLE 5: RECOMMENDED SPACING BETWEEN NUMERALS

	1	
NUMERALS/ OTHERS	WHEN COMBINED WITH LETTERS	LETTER SPACING *
1, 3, 8, 9, 0	4 1, 2, 3, 7 ALL OTHERS	4 5 6
2,5,6	4 ALL OTHERS	4 5
4	4, 1, 2, 3, 7 ALL OTHERS	3 4 5
7	4 ALL OTHERS	1 3
, (COMMA)	ALL	10
1	ALL	20

For x-heights of 100mm, 150mm, 250mm and 300mm, the actual letter and numeral spacings will be multiplied by 4, 6, 10 & 12 respectively.

For "EXIT NUMBER" Sign, the actual numeral spacings will be multiplied by 11.43.

# TABLE 6: RECOMMENDED SPACING

SPACING (mm)		REMARKS
VERTICAL 25		FOR SPACING BETWEEN SIDE BORDER TO ARROW
or /tolito		FOR SPACING BETWEEN SIDE BORDER WITH THE LONGEST LEGEND
		FOR SPACING BETWEEN ARROW WITH THE LONGEST LEGEND
		FOR SPACING BETWEEN WORDS
HORIZONTAL SPACING	(i) 20	FOR SPACING BETWEEN UPPER SIGN BORDER TO TOP OF LEGEND WITH UPPER AND LOWER-CASE LETTERS AND ALSO FOR SPACING BETWEEN EACH LINE.
	(ii) 25	FOR SPACING BETWEEN BOTTOM OF UPPER-CASE LETTER AND LOWER SIGN BORDER, AND FOR SPACING BETWEEN UPPER SIGN BORDER TO TOP OF LEGEND WITH UPPER-CASE LETTERS ONLY.

\* For x-heights of 100mm, 150mm, 250mm and 300mm, the actual letter and numeral spacings will be multiplied by 4, 6, 10 & 12 respectively.

## TABLE 7: COLOUR CODE

COLOUR CODE	LETTERING ARROW & BORDER	BACKGROUND	REMARKS
А	WHITE (Within Blue Box)	GREEN	EXPRESSWAY NAMES ON DIRECTIONAL SIGNS
В	WHITE	GREEN	(a) DIRECTIONAL SIGNS (b) STREET NAME SIGNS- STAND ALONE SIGNS
С	BLACK	WHITE	(a) FACILITY SIGNS (b) STREET NAME ON DIRECTIONAL SIGNS
D	WHITE	BLUE	INFORMATION SIGNS
Е	WHITE	BROWN	TOURISTS

#### TABLE 8: EXPRESSWAY LOGO

TYPES OF ROAD DIRECTIONAL SIGN	ONE LEGEND	BORDER	TWO LEGENDS	BORDER
ARTERIAL	280 X 250	20	385 X 350	25
EXPRESSWAY	385 X 350	25	560 X 500	30
GANTRY	560 X 500	30	728 X 650	35

# TABLE 9: MULTIPLICATION FACTORS FOR EXPRESSWAY LOGO

SIZE OF EXPRESSWAY LOGO (mm) X (mm)	WIDTH FACTOR	LENGTH FACTOR
385 X 350	1.40	1.40
560 X 500	2.00	2.00
728 X 650	2.60	2.60

# TABLE 10:

# SPACING BETWEEN NUMERAL AND ALPHABET IN 'EXIT NUMBER' SIGNS

NUMERAL	ALPHABET	SPACING
1,2,3,4, 5,6,8,9,0	ALL	120
7	A ALL OTHERS	100 120

## TABLE 11: DIRECTIONAL SIGNS

TYPE OF SIGNS	EXPRESSWAY & SEMI-EXPRESSWAY	/	OTHER ROAD
ADVANCE DIRECTIONAL SIGNS	600m FROM END OF CHEVRON MARKING OF TRAFFIC ISLAND OF AN INTERCHANGE ON THE SIDETABLE.	}	150m FROM END OF CHEVRON MARKING OF TRAFFIC ISLAND OR STOP LINE (IF THERE IS NO TRAFFIC ISLAND) OF AN INTERCHANGE OR INTERSECTION ON THE SIDETABLE.
INTERMEDIATE ADVANCE DIRECTIONAL SIGNS	300m FROM END OF CHEVRON MARKING OF TRAFFIC ISLAND OF AN INTERCHANGE ON THE SIDETABLE.  IF THERE IS NO SUITABLE SITE FOR THE INTERMEDIATE ADVANCE SIGN, THEN IT SHOULD BE MOUNTED ONTO A CANTILEVER SUPPORT.		NOT APPLICABLE.
CONFIRMATORY DIRECTIONAL SIGNS	THE EXIT NUMBER SIGN TO BE PLACED AT THE PHYSICAL NOSING OF TRAFFIC ISLAND WITH CANTILEVER / GI POST.  THE CONFIRMATORY SIGN TO BE PLACED ON THE LEFT SIDE OF THE SLIP ROAD WITH A EXIT NUMBER SIGN.  IT CAN BE PLACED AT A PROMINENT LOCATION ALONG THE STRETCH OF ROAD BETWEEN THE ISLAND NOSING AND THE TIP OF THE CHEVRON MARKING.  IF THERE IS NO SUITABLE SITE FOR THE CONFIRMATORY SIGN, THEN IT SHOULD BE MOUNTED ONTO A CANTILEVER SUPPORT.		TO BE PLACED ON THE LEFT SIDE OF CARRIAGEWAY.  HOWEVER, WHERE APPROPRIATE (EXAMPLE WITH MAJOR RIGHT TURN AT INTERCHANGE OR INTERSECTION) AND IF SITE PERMITS, SIGN TO BE SITED ON THE PHYSICAL NOSING OF TRAFFIC ISLAND OF THE INTERCHANGE OR INTERSECTION

## TABLE 12: OTHER SIGNS

TYPE OF SIGNS	EXPRESSWAY & SEMI-EXPRESSWAY	OTHER ROAD
OVERHEAD GANTRY	1 km FROM PHYSICAL NOSING OF TRAFFIC ISLAND OF AN INTERCHANGE ON THE SIDETABLE.	IF REQUIRED, SUBJECT TO APPROVAL FROM AUTHORITIES.