



### PROPOSED MIXED USE DEVELOPMENT

321-331 CONDAMINE STREET, MANLY VALE

# **Traffic and Parking Assessment Report**

19<sup>th</sup> June 2020

Ref: 20006

Prepared by

# **Terraffic Pty Ltd**

Traffic and Parking Consultants



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### 1. INTRODUCTION

This report has been prepared to accompany a Development Application (DA) to Northern Beaches Council for a proposed mixed use development on a consolidated sate at 321-331 Condamine Street, Manly Vale (Figures 1 and 2).

The proposed development site is located on the north-western corner of the Condamine Street / Sunshine Street intersection. It has a total site area of approximately 1,274.4m<sup>2</sup> with frontages of approximately 35.65m to Condamine Street, 31.1m to Sunshine Street and 38.10m to Somerville Place at the rear of the site.

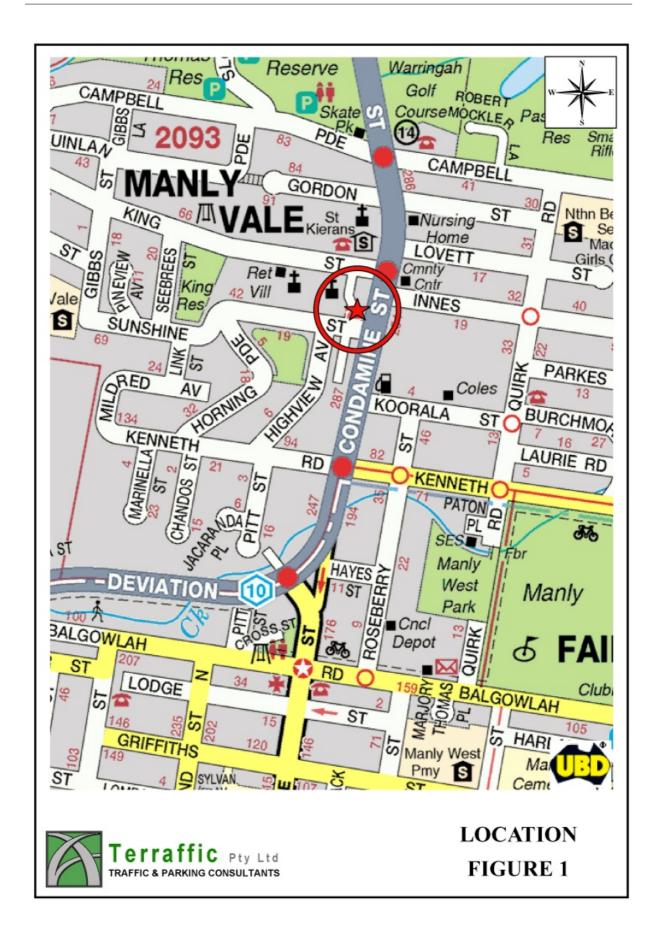
### Existing Site Development

The existing site development comprises 4 mixed use buildings with a combined retail/commercial floor space of approximately  $600\text{m}^2$  and approximately 4 residential dwellings. As can be seen in the aerial photograph below, the buildings are served by at-grade carparks that gain direct access to Somerville Place.



Aerial photograph of the site

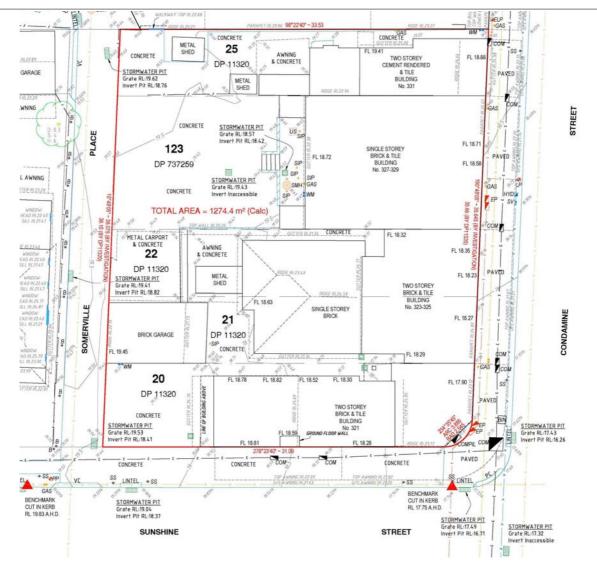












**Site Survey** 

### **Proposed Development**

The development proposal involves the demolition of the existing building and construction of a new mixed use building comprising 4 small retail shops with a combined floor area of  $370.37\text{m}^2$  and 33 residential apartments as follows:

<b>Total Retail</b>	$370.37m^2$
Retail 4	$62.25m^2$
Retail 3	$139.25m^2$
Retail 2	$110.06\text{m}^2$
Retail 1	58.81m <sup>2</sup>
Retail	



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<b>Total Units</b>	33
2 bedroom units	23
1 bedroom units	10

The proposed development is served by a total of 68 off-street car parking spaces comprising 38 resident spaces, 7 visitor and 23 retail spaces. An on-site loading space capable of accommodating a courier van is also proposed on the ground level. As per the current arrangement, larger delivery vehicles will temporarily park in the 1 HOUR PARKING zone along the Condamine Street frontage.

Vehicular access to the proposed development is off Somerville Place via a two-way 5.5m wide combined entry/exit driveway located adjacent to the northern site boundary.

# Public Transport Accessibility

The subject site has convenient access to the following bus service operated by Sydney Buses:

Route B1	B-Line Mona Vale to City Wynyard via Narrabeen, Dee Why, Brookvale, Mosman and Neutral Bay (operates daily)
Route E54	Mona Vale to Milsons Point (Express Service) via Warriewood, Narrabeen, Dee Why, Brookvale, Manly Vale, Mosman, Neutral Bay and North Sydney Station (operates daily)
Route E65	South Curl Curl to City Wynyard (Express Service) via Freshwater, Manly Vale, Cremorne and Neutral Bay (operates daily)
Route E66	Allambie to City Wynyard (Express Service) via Manly Vale, Cremorne and Neutral Bay (operates weekday peaks only)
Route E68	Brookvale to City Wynyard (Express Service) via North Balgowlah, Seaforth, Mosman and Neutral Bay (operates weekday peaks only)
Route E75	Brookvale to City Wynyard (Express Service) via Manly Vale and Neutral Bay (operates weekday peaks only)



Route E76	Dee Why to City Wynyard (Express Service) via North Curl Curl Brookvale, Manly Vale, Cremorne and Neutral Bay (operates weekday peaks only)
Route E77	Dee Why to City Wynyard (Express Service) via Wingala, North Curl Curl Brookvale, Manly Vale, Cremorne and Neutral Bay (operates weekday peaks only)
Route E78	Cromer Heights to City Wynyard (Express Service) via Narraweena, Dee Why, Brookvale, Manly Vale, Cremorne and Neutral Bay (operates weekday peaks only)
Route E79	Wheeler Heights to City Wynyard (Express Service) via Narraweena, Dee Why, Brookvale, Manly Vale, Cremorne and Neutral Bay (operates weekday peaks only)
Route E80	Collaroy Plateau to City Wynyard (Express Service) via Dee Why, Brookvale, Manly Vale and Neutral Bay (operates weekday peaks only)
Route E83	North Narrabeen to City Wynyard (Express Service) via Narrabeen, Dee Why, Brookvale, Manly Vale, Cremorne and Neutral Bay (operates weekday peaks only)
Route E85	Mona Vale to City Wynyard (Express Service) via Warriewood, Narrabeen, Dee Why, Brookvale, Manly Vale, Cremorne and Neutral Bay (operates weekday peaks only)
Route E88	North Avalon to City Wynyard (Express Service) via Mona Vale, Narrabeen, Manly Vale, Mosman and Neutral Bay (operates daily)
Route E89	Avalon to City Wynyard (Express Service) via Mona Vale, Narrabeen, Mosman and Neutral Bay (operates daily)
Route L90	Palm Beach to City Wynyard (Limited Stops) via Avalon, Newport, Narrabeen, Brookvale, Mosman and Neutral Bay (operates daily)
Route 132	Warringah Mall to Manly via North Balgowlah and Seaforth (operates daily)
Route 135	North Head to Warringah Mall via Manly, Balgowlah, Manly Vale and Brookvale (operates daily)
Route 142	Pittwater Place Shopping Centre to Kamaroi Rudolf Steiner School (operates morning peak only)



Route 145	Warringah Mall to Seaforth via Manly Vale (operates weekdays only)
Route 151	Mona Vale to City QVB via Narrabeen, Dee Why, Brookvale, Mosman, Neutral Bay and North Sydney Station (operates daily)
Route 168	North Balgowlah to Milsons Point via Seaforth, Cremorne, Neutral bay and North Sydney (operates weekday peaks only)
Route 178	Cromer Heights to City Wynyard via Narraweena, Dee Why, Brookvale, Manly Vale, Cremorne and Neutral Bay (operates daily)
Route 180	Collaroy Plateau to City Wynyard via Dee Why, Brookvale, Manly Vale and Neutral Bay (operates daily)
Route 188	Mona Vale to City Wynyard (Express Service) via Narrabeen, Dee Why, Brookvale, Mosman, Neutral Bay and North Sydney Station (operates daily)

The purpose of this report is to assess the traffic, servicing and parking implications of the proposed development.



# 2. PARKING AND SERVICING ASSESSMENT

### **Parking Provision**

Appendix 1 in Part H of the Warringah Development Control Plan (amendment 17) nominates the following parking requirements that are applicable to the proposed development:

Multi-dwelling housing, Residential flat buildings, Serviced apartments (including holiday flats), Shop-top housing (residential component)

- 1 space per 1 bedroom dwelling
- 1.2 spaces per 2 bedroom dwelling
- 1.5 spaces per 3 bedroom dwelling
- 1 visitor space per 5 units or part of dwellings

Shop (includes retail / business component of shop top housing, retail premises and neighbourhood shop)

• 1 space per 16.4 m<sup>2</sup> GLFA (6.1 spaces per 100 m<sup>2</sup> GLFA)

Application of those parking rates to the proposed development yields a total requirement of 68 spaces calculated as follows:

### Residential

10 x 1 bedroom units @ 1.0 space per dwelling
23 x 2 bedroom dwellings @ 1.2 spaces per dwelling

Total resident parking
37.6 spaces (rounded to 38 spaces)
33 dwellings @ 1 visitor space per 5 dwellings

Total
44.2 spaces (rounded to 45 spaces)

Retail

370.37m² @ 6.1 spaces per 100m²
22.6 spaces (rounded to 23 spaces)

Total
66.8 spaces (rounded to 68 spaces)

The proposed development satisfies the DCP requirement with the provision of 68 spaces comprising 38 resident spaces, 7 visitor and 23 retail spaces.



### **On-Site Loading Facilities**

Part C2 of the Warringah Development Control Plan notes the following with regard to onsite loading facilities:

### On-site loading and unloading

- 6. Facilities for the loading and unloading of service, delivery and emergency vehicles are to be:
  - o appropriate to the size and nature of the development;
  - o screened from public view; and
  - O designed so that vehicles may enter and leave in a forward direction.

Table 5.1 of the RMS's "Guide to Traffic Generating Developments" (October 2002) specifies the following requirement for delivery and service vehicles:

Restaurants/Shops <2,000m<sup>2</sup> GFA 1 space per 400m<sup>2</sup> GFA

Based on the RMS Guidelines, the proposed development requires 1 loading space as follows:

370.37m<sup>2</sup> Retail floorspace @ 1 loading bay per 400m<sup>2</sup> GFA 0.93 loading bay

The proposed development is served by a 6.75m x 4.5m loading bay on the ground level capable of accommodating a typical courier van similar in size to the B99 vehicle specified in the Australian Standard AS/NZS2890.1:2004. The B99 vehicle is similar to the Ford Transit Medium Wheelbase Van and measures 5.2m x 1.94m. This vehicle will adequately serve the 4 small retail shops.

### Carpark and Access Compliance

The basement carpark and access ramps have been designed to generally satisfy the following requirements of the Australian Standard AS/NZS2890.1-2004 – "Off-Street Car Parking":

- Long-term (Class 1) parking spaces are a minimum 5.4m long and 2.4m wide
- Short term (Class 3) parking spaces are a minimum 5.4m long and 2.6m wide
- Small car spaces are a minimum 5.0m long and 2.3m wide
- An additional 0.3m has been provided for spaces adjacent to a wall or obstruction



- Dead-end aisle extensions 1.0m wide have been provided as per Figure 2.3 of the Standard
- The access/manoeuvring aisle ranges in width from 5.8m to 6.2m
- Pavement cross-falls at parking spaces do not exceed 5% (1 in 20)
- Maximum ramp grades do not exceed 20% (1 in 5)
- Ramp transitions do not exceed 12.5% (1 in 8) over a distance of 2.0m
- The two-way access driveways are 6.1m wide wall to wall comprising a 5.5m roadway and 2 x 300mm wide kerbs
- A minimum headroom clearance of 2.2m has been provided throughout the basement carpark

The disabled parking spaces have also been designed in accordance with the Australian Standard AS/NZS2890.6:2009 – "Off-street parking for people with disabilities" as follows:

- A 5.4m long x 2.4m wide dedicated (non-shared) parking space
- An adjacent *shared* area that is also 5.4m long x 2.4m wide
- A minimum headroom of 2.5m above the disabled spaces
- Pavement cross-falls in disabled spaces do not exceed 2.5% (1 in 40) in any direction

Clause 3.3(a) of the Australian Standard requires the first 6m into a carpark from the property boundary to have a maximum gradient of 5% (1 in 20). The objective of this requirement is to optimise sight lines to pedestrians walking along the footpath. As the site has direct access to Somerville Place, meeting this requirement is considered unnecessary as pedestrian activity in the rear lane is virtually non-existent.

In the circumstances, it can be concluded that the proposed development has no unacceptable parking, loading or safety implications.



### 3. TRAFFIC ASSESSMENT

### **Existing Road Network**

The road hierarchy allocated to the road network in the vicinity of the site by the Roads and Maritime Services is illustrated on Figure 3 and comprises the following:

### **State Roads**

Burnt Bridge Creek Deviation – Condamine Street

### **Regional Roads**

Kenneth Road (east of Condamine Street)

Condamine Street (between Burnt Bridge Creek Deviation and Sydney Road)

Condamine Street is a classified *State Road* performing an arterial road function. It forms part of the Metroad 10 system that links the northern suburbs to the lower north shore and ultimately the Sydney CBD. Condamine Street carries 6 lanes of traffic with the kerbside lanes reserved as Bus Lanes during peak periods.

King Street is an unclassified Local Road performing a collector road function. The intersection of Condamine Street and King Street is traffic signal controlled with all turns permitted at the intersection. It has a pavement width of approximately 13m and is restricted to a speed limit of 50km/h.

Sunshine Street is an unclassified Local Road with a primary function of providing access to properties to the west of Condamine Street. It has a pavement width of approximately 13m and is restricted to a speed limit of 50km/h. Due to the median island on Condamine Street, all traffic accessing Sunshine Street is restricted to left-in/left-out only.

Somerville Place is a local laneway with a primary function of providing vehicular access to properties fronting Condamine Street. On the 5<sup>th</sup> March 2019, Northern Beaches Council's Local Traffic Committee approved the introduction of ONE WAY southbound traffic flow on Somerville Place between King Street and Sunshine Street. Council however is in the process of widening Somerville Place to 6.0m by requiring land dedications when sites develop along



its length. It is anticipated that traffic flows will revert back to TWO WAY once all land dedications are complete and the roadway constructed to accommodate these flows.

The existing traffic and parking controls on the road network serving the site are illustrated on Figure 4 and include:

- The TRAFFIC SIGNALS at the intersection of Condamine Street and King Street
- The MEDIAN ISLAND on Condamine Street
- The BUS ZONES and peak period BUS LANES on Condamine Street
- The 1 HOUR PARKING zone along the Condamine Street frontage of the site

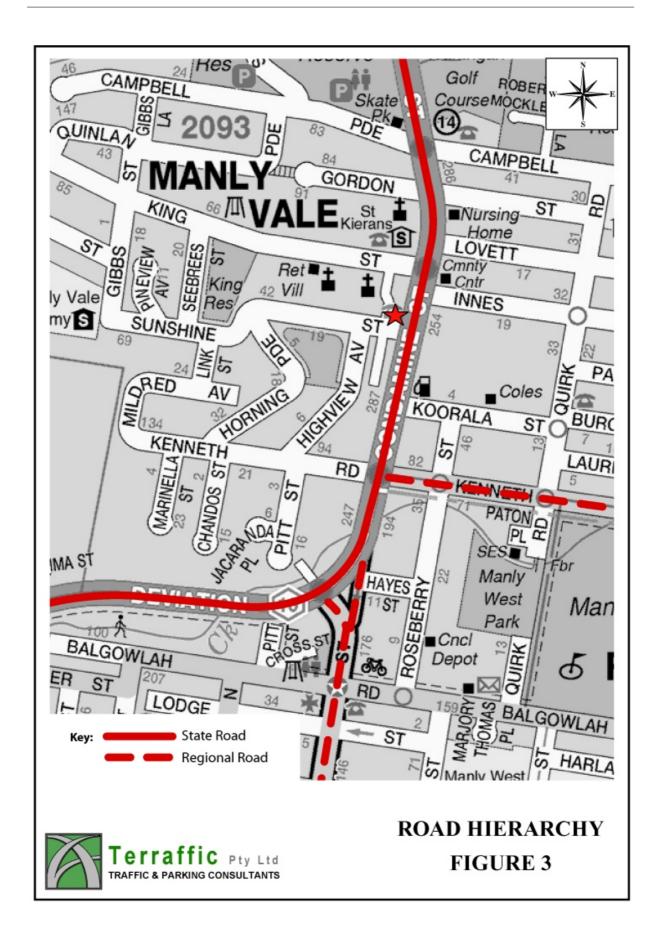
### **Existing Traffic Conditions**

An indication of existing traffic conditions on the road network serving the site is provided from a count of traffic activity at the King Street/Somerville Place and Sunshine Street/Somerville Place intersections conducted between 7.00am - 9.00am and 4.00pm - 6.00pm on Monday 17<sup>th</sup> February 2020. The results of these counts of traffic activity are reproduced in Appendix A revealing that:

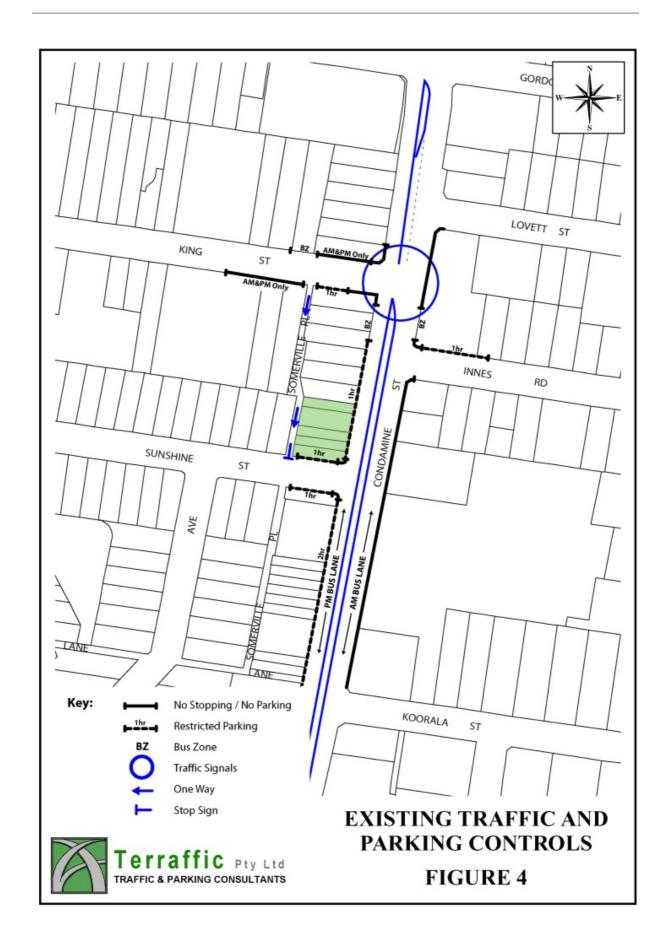
- the AM peak period occurred between 8.00 9.00am. At that time, 25 vehicles
  per hour (vph) entered Somerville Road from King Street and 18vph exited onto
  Sunshine Street.
- the PM peak period occurred between 4.30 5.30pm. At that time, 29vph entered
   Somerville Road from King Street and 31vph exited onto Sunshine Street.

It should be noted that the majority of vehicles entering Somerville Place turn left from King Street while the majority of vehicles exiting onto Sunshine Street turn right. These predominant flows indicate that Somerville Place is used as a "rat-run" for traffic heading south on Condamine Street with a destination to the west of the site off Sunshine Street.











### Projected Traffic Generation Potential

An indication of the traffic generation potential of the existing and proposed development is provided by reference to the Roads and Maritime Services publication *Guide to Traffic Generating Developments, Section 3 - Landuse Traffic Generation (October 2002)*. The RMS *Guidelines* are based on extensive surveys of a wide range of land uses and nominates the following traffic generation rates which are applicable to the existing and proposed development:

**Specialty Shops / Secondary Retail** 5.6 peak hour trips per 100m<sup>2</sup> GLFA

**High Density Residential Flat Buildings** 

Metropolitan Sub-Regional Centres 0.29 peak hour vehicle trips per unit

### Traffic Generation of **EXISTING SITE** Development

Application of the RMS's traffic generation rates to the existing retail floor space yields a traffic generation potential in the order of 34vtph during the weekday peak periods as follows:

 $600\text{m}^2$  retail @ 5.6vtph per  $100\text{m}^2$  34vtph

### Traffic Generation of PROPOSED Development

Application of the RMS's traffic generation rates to the proposed development also yields a traffic generation potential in the order of 31vtph during the weekday peak periods calculated as follows:

 $370\text{m}^2$  retail @ 5.6vtph per  $100\text{m}^2$  21vtph 33 units @ 0.29vtph per unit 10vtph *Total* 31vtph

Therefore based on the RMS Guidelines, the proposed development will generate 3 less vehicle movement during peak periods as follows:



Existing Development 34vtph
Proposed Development 31vtph
Reduction in Traffic 3vph

In circumstances where an existing development generates more traffic than a proposed development, it can be readily appreciated that the proposal will not have any noticeable or unacceptable effect on the road network serving the site in terms of road network capacity or traffic-related environmental effect.

Furthermore, the development site has almost direct vehicular access to the higher order road network which alleviates the need to travel on local residential streets.

In the circumstances, the proposed development will not have any unacceptable traffic implications.



# APPENDIX A

# TRAFFIC COUNT DATA

PEAK HOUR

0

151

King St

**—** 122

**–** 66

250

29

PEAK HR 99

22 192 360

PEAK HR 143

360 268

192

147 66

King St



: 7282 MANLY VALE Somerville PI

Job No/Name Day/Date

Client

: Terraffic Pty. Ltd.

: Monday 17th February 2020

King St EAST

Somerville

WEST King St

All Vehicles

SOUTH

# R.O.A.R. DATA Reliable, Original & Authentic Results

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			TOTAL	28	33	31	42	47	72	107	134	203
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49	23	9	0	0	0	21	1700 - 1715
29	34	9	0	0	0	22	1645 - 1700
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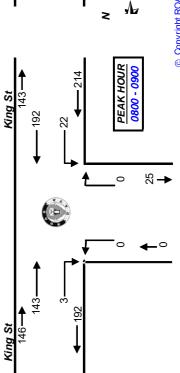
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King St EAST

Somerville

King St WEST

SOUTH



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R.O.A.R. DATA
Reliable, Original & Authentic Results
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: Terraffic Pty. Ltd. Client

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HIIOS	Somonvillo Di	St Somervine PI Sumstime S	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 0 0 2 1 5	0 0 0 2 0 10	0 2 0 1 0 6	0 0 0 1 0 5	2 0 0 0 1 7	0 2 0 2 1 6	0 1 0 0 0 13	2 5 0 10 3 65	THIC O	LIDOS G	Somerville PI Sunsnine S	0 2 0 7 1 34	13 0 2 0 6 1 26	2 2 0 4 1 28	2 4 0 4 2 24	2 3 0 3 2 31	2 3 0 3 2 31	Somerville PI  11
HIIOS	Cunching C+ Companillo DI		3   -	0 5 0 0 0 2 1 5	3 0 0 0 2 0 10	0 0 2 0 1 0 6	5 0 0 0 0 5	12 2 0 0 0 1 7	10 0 2 0 2 1 6	11 0 1 0 0 13	49 2 5 0 10 3 65	TSEM	WEST	Sunshine St Somerville Pl Sunshine S	0 11 0 2 0 7 1 34	0 13 0 2 0 6 1 26	20 2 2 0 4 1 28	27 2 4 0 4 2 24	38 2 3 0 3 2 31	38 2 3 0 3 2 31	Somerville PI $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
HIIOS	Cunching C+ Companillo DI		3	0 5 0 0 0 2 1 5	0 3 0 0 0 2 0 10	0 0 2 0 1 0 6	0 5 0 0 0 0 1 0 5	0 12 2 0 0 0 1 7	0 10 0 2 0 2 1 6	0 11 0 1 0 0 0 13	0 49 2 5 0 10 3 65	TSEM	WEST	Sunshine St Somerville Pl Sunshine S	0 11 0 2 0 7 1 34	5 0 13 0 2 0 6 1 26	0 20 2 2 0 4 1 28	0 27 2 4 0 4 2 24	0 38 2 3 0 3 2 31	0 38 2 3 0 3 2 31	Somerville PI $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
HIIOS	DI Sunshine St Somenville DI		3	1 2 0 5 0 0 0 2 1 5	0 0 3 0 0 0 2 0 10	0 0 2 0 1 0 6	0 5 0 0 0 0 1 0 5	0 12 2 0 0 0 1 7	0 5 0 10 0 2 0 2 1 6	0 4 0 11 0 1 0 0 0 13	16 0 49 2 5 0 10 3 65	THIC O	WEST	Sunsnine St Somerville PI Sunsnine S	5 0 11 0 2 0 7 1 34	3 5 0 13 0 2 0 6 1 26	3 0 20 2 2 0 4 1 28	8 0 27 2 4 0 4 2 24	11 0 38 2 3 0 3 2 31	11   0   38   2   3   0   3   2   31	Somerville PI  Sunshine St  11
HTIOS L TREM L HTRON	Cunching C+ Companillo DI		0 1 2 0 1 1 1 2 0 1 1 1 1 1 1 1 1 1 1 1	0 1 2 0 5 0 0 0 2 1 5	0 0 0 3 0 0 0 2 0 10	0 1 1 0 0 0 0 2 0 1 0 6	1 1 2 0 5 0 0 0 0 1 0 5	1 1 0 0 12 2 0 0 1 1 7	0 0 5 0 10 0 2 0 2 1 6	0 4 0 11 0 1 0 0 0 13	5 16 0 49 2 5 0 10 3 65	TSEM	WEST	Sunshine St Somerville Pl Sunshine S	0 3 5 0 11 0 2 0 7 1 34	1 3 5 0 13 0 2 0 6 1 26	3 3 0 20 2 2 0 4 1 28	3 8 0 27 2 4 0 4 2 24	2 11 0 38 2 3 0 3 2 31	2   11   0   38   2   3   0   3   2   31	Somerville PI  Somerville PI  11 2 5  Sunshine St  40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0