

To the Lord Mayor and
Members of Dublin City Council

Report No. 53/2023
Report of the Chairperson of the Traffic
and Transport Strategic Policy Committee



Proposed installation of Zebra Crossings in the DCC Area

The Traffic and Transport SPC in 2022 established a working group to consider the issue of the use of Zebra Crossings in the DCC area.

The sub-committee has now concluded its work and presented the following report to the Traffic and Transport SPC on the 8th of February 2023.

The Members of the SPC approved the report and recommended that it should be presented to the full City Council meeting.

Resolution

“That Dublin City Council notes the contents of Report No. 53/2023 and hereby approves the content therein.”

Noeleen Reilly
Chairperson
24th February 2023

Report of the Zebra Crossing Working Group



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INTRODUCTION

The Zebra Crossing Working Group is a sub group of the Transport SPC and was set up with the objective to support informed policy and decision making by looking at safer alternative Zebra Crossings designs.

The proposed work programme of the group was to hold 4 meeting and to report back to the SPC with a final report to the full City Council. The membership of the group is as follows:

- Gary Kearney, PPN;
- Colm Ryder, Dublin Cycling Campaign;
- Cllr. Caroline Conroy (Lord Mayor);
- Cllr. Janet Horner (Elected to chair working group by the members);
- Cllr. Carolyn Moore;
- Karen Hosie, Senior Transportation Officer ITS Section Dublin City Council.

CURRENT REQUIREMENTS

At the initial meeting of the group, details in relation to the then current Irish legislation (from the Traffic Signs Manual) for the requirements of a Zebra crossing were discussed. The relevant excerpts from the Traffic Signs Manual are as follows:

- Zebra Crossings, are pedestrian crossings marked by flashing amber beacons, alternate black and white stripes across the road, and other road markings. Vehicles must stop if there is a pedestrian on the crossing. They are not signalised crossings but are considered controlled crossings.
- Zebra crossings are not normally considered suitable for roads with a maximum speed limit greater than 50km/h, or where there is more than one lane in each direction (unless a refuge island is provided).
- The Pedestrian Crossing Beacon consists of an internally illuminated globe mounted on a post; it is used to indicate the presence of a priority-controlled (Zebra) pedestrian crossing. The beacon must be provided on both sides of the road (and on refuges where present) in conjunction with the Pedestrian Crossing road markings.
- The beacon shall consist of a spherical globe approximately 300mm in diameter, yellow in colour and mounted on a post between 2.1m and 4.2m high. The beacon shall be lit internally with a flashing yellow light, flashing at between 35 and 45 flashes per minute.
- A pedestrian crossing should be located where pedestrians are most likely to use it and where it does not confuse or cause conflict for vehicular movement. The minimum recommended distance between uncoordinated mid-block pedestrian crossings, or between a pedestrian crossing and an uncoordinated signal-controlled junction is 100m. Adequate footway capacity should be provided at each end of the crossing for assembly and dispersal.
- Crossings should be located away from conflict points at uncontrolled junctions, and care should be taken when siting close to roundabouts.
- Minimum distances for drivers' visibility of signals controlling a pedestrian crossing are the same as for other Traffic signals.
- The guiding principle regarding the visibility of signals is that a driver must have a clear view of at least one signal head on approaching the crossing and when stationary at the Stop Line.

There are currently three Zebra Crossing locations within the DCC area which are maintained by DCC.

Zebra Crossing Working Group

Since the start of the working group the Department of Transport has implemented a trial at a number of locations of installing Zebra crossing with no flashing beacon and signage only. DCC did not participate in this trial.

POTENTIAL OPTIONS TO BE CONSIDERED

The main options discussed by the group in relation to the installation of Zebra crossings related to two main areas:

- Universal access
- The cost of installation

In relation to universal action the issue was raised by members of the committee in relation to the current operation of a zebra crossing is based on the principle that a vehicle should yield to a pedestrian that has stepped off the kerb and is starting to cross. Some members of the community who cannot make physical eye contact with approaching vehicles may be unsure when to step off the crossing. To address this issue the group agreed that initially Zebra Crossing would not replace signalised crossing on vehicle trafficked streets and also that traffic calming measures such as crossing on a raised platform, for slowing vehicles on the approach to should be implemented where possible.

The other main issued discussed related to the cost of installation. Initial costing were carried out based on a universal design for the installation of mains powered and solar powered crossing with and without a crossing ramp. In all cases the cost of installation is approximately half the price of installing a signalised pedestrian crossing.

Please note for the cost of installation with the ramp an estimation was given in relation to the cost of additional works required for drainage around the ramped area. Each site will depend on the distance to the nearest DCC gully.



Figure 1 Current DCC Zebra Crossing Donnybrook



Figure 2 Newly upgraded Zebra Crossing in DLRCC – Mains powered with raised platform



Figure 3 Newly upgraded Zebra Crossing in DLRCC – Solar powered without raised platform

GROUP CRITERIA

Following on from a number of discussions on the merits and types of Zebra crossing were discussed the group agreed on the following criteria for selection of locations for Zebra Crossings:

- Good visibility on approach;
- Volume of traffic should be sufficiently low and if possible with other traffic calming in the area;
- Two lanes maximum (one lane in each direction or two lanes on a one way street);
- For visibility of pedestrians no parking for 10m each side of the approach and 5m after;
- Ramped crossing where possible;
- On road of a speed of 50km/hr or less;
- Not at a location of an already signalised junction in a trafficked area;
- A speed survey should be carried out before final approval;
- A review of the site should be carried out post installation;
- Assess the need for the supplementary crossing in terms of existing and potential usage;
- Consider the distance to the nearest signalised crossing.

POTENTIAL OPTIONS TO BE CONSIDERED

A number of possible locations were provided by members of the committee, (please see below a map of the locations). The sites have been divided into three categories, possible locations, rejected locations and rejected locations as traffic signals are planned for the location. Appendix I also lists all locations and details the category assigned to each location.

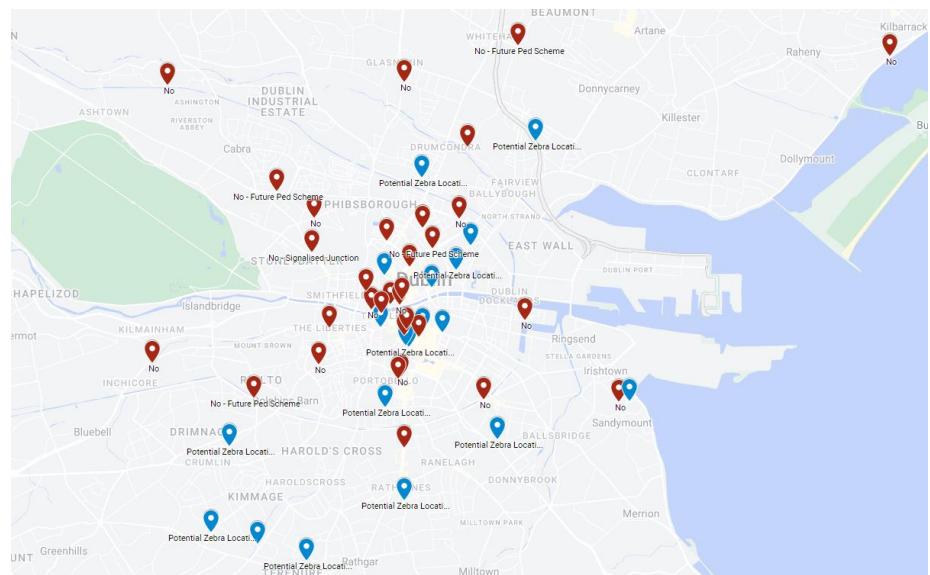


Figure 4 All Locations provided by members of the group

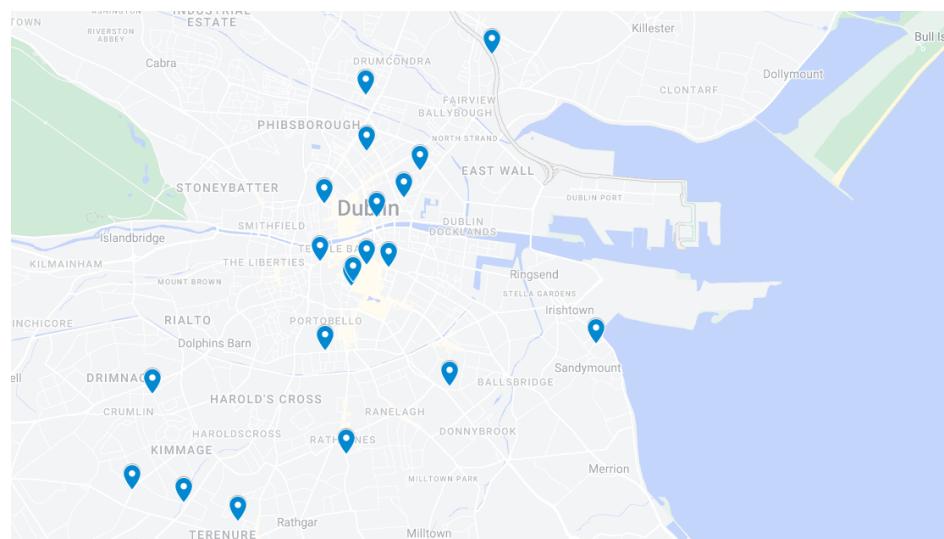


Figure 5 Locations which meet the group criteria

RECOMMENDATIONS

Following a final review of the locations which passed the committee's criteria, a priority list for the first set of sites to be further developed was voted on by the committee members.

The recommendations of the Zebra Crossing Working Group are as follows:

- The city council should begin again to install zebra crossing at locations where they meet the criteria detailed in this report
- For the first 5 zebra crossings installed a review six months after installation should be carried out including costing versus the installation of a signalised crossing, and a before and after speed survey be carried out
- For this initial batch a report will be issued to the SPC detailing the level of success and a request to continue the roll out of new sites
- Assess further the thirteen zebra crossing locations shown below in relation to producing a detailed design
- In conjunction with the roll out of new zebra crossing an awareness campaign should be launched to remind members of the public of the operation of zebra crossings

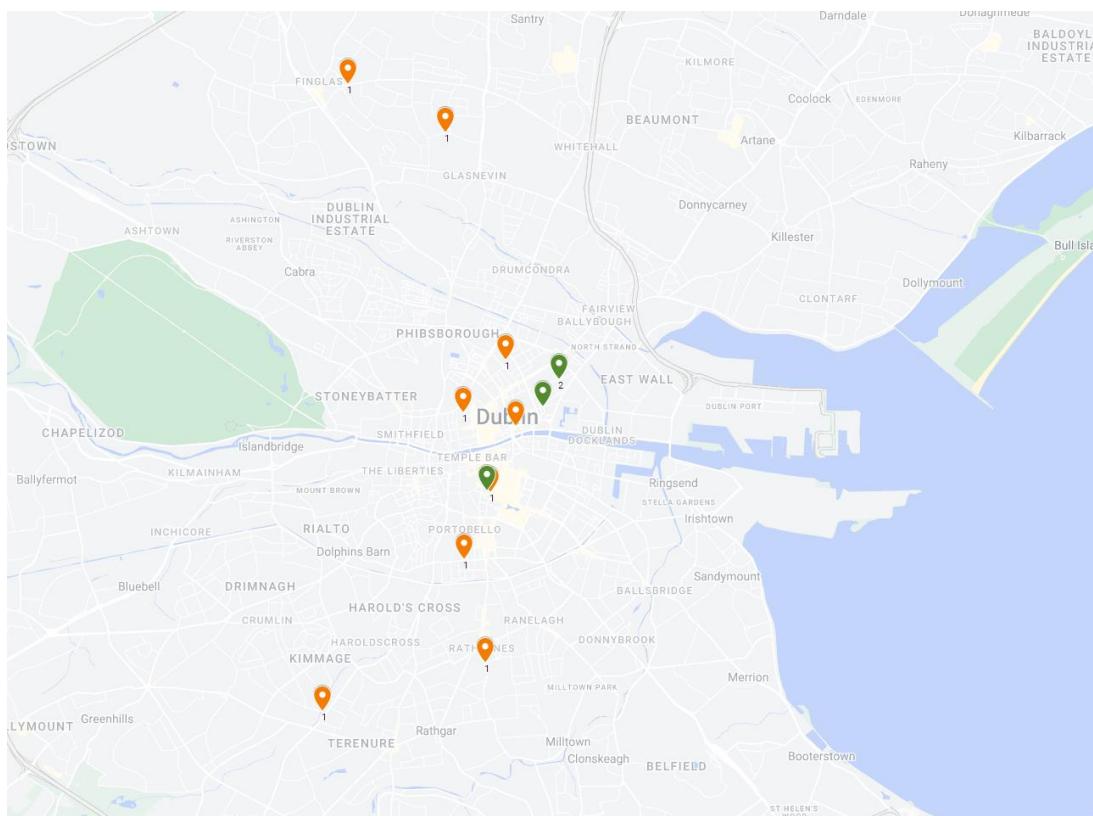


Figure 6 First thirteen sites to be investigated

NEXT STEPS

The next steps as recommended by this committee are:

- Advance to detail design stage the thirteen locations as recommended by members of the committee;
- Seek funding for the installation of zebra crossing (internal or external).

Thanks to all of the members of the committee and the staff of the executive for all of their input.

Councillor Janet Horner
Chairperson

APPENDIX I- ALL POSSIBLE LOCATIONS

Location Name	Google Map Reference	Comments-Present system	Lat	Long	Yes/ No /Maybe	Comment (DCC)
Annamoe Parade, on North Circular Rd	https://goo.gl/maps/fkwk8zxaoy51nfYr5	No one uses the signalled traffic lights 150metres up the road. Too far away from entrance to TUD	53.357972	-6.285111	No	There is a pedestrian crossing approximately 100m from this location
James Larkin Road R807	https://www.google.ie/maps/@53.3796421,-6.155583,3a,75y,244.05h,75.46t/data=!3m6!1e1!3m4!1sdPD9HMQZ6E5pbM2licRVow!2e0!7i16384!8i8192	No crossing on coast road with bus stop access required at pedestrian access from Fox's Lane - 60kph speed limit?	53.3796421	-6.155583	No	The speed limit at this location is over 50kmph (60kph Speed limit)
80-96 Sandymount Rd	53.333272857963586, -6.216613820352365	Safe Crossing needed at major Tesco store	53.33327286	-6.21661382	No	This location is beside a bus stop and a line of on street parking
Royal Canal Avenue in D15	https://goo.gl/maps/wBhPPbtYJN6G9L5u6	access to and from Canal walkway/towpath across roadway	53.375752	-6.3179664	No	Currently this area has not been fully taken in charge by DCC
Camden St at Fresh/Wowburger.	53.3366379, -6.2655209	No way of crossing between intersection of Pleasant's St and Kevin St	53.3366379	-6.2655209	No	There is on street parking on one side of the roadway
R111 Mesnil Road - possible 2 locations	https://t.co/Y3u41gvkkZ	50kph speed limit - access to canal path	53.33352191	-6.247003127	No	On street parking along the length of the roadway
South William Street at Powerscourt centre	https://goo.gl/maps/cY1qUN8finwqw8J99	major pedestrian crossing point at Coppering Row	53.3421854	-6.2647178	No	Further review required in relation to possible future plans for the area

Clarendon St at Coppering Row			53.341915 83	- 6.26144609 7	No	Further review required in relation to possible future plans for the area
Ormond Street junction with Cork Street beside Weaver Park	https://goo.gl/maps/8G6fkZw3LNWWq5u6A	Provide safer Access to Park	53.338221	-6.2840313	No	Two lanes of traffic in each direction
Thomas Davis Street West at t Vincents Street West	https://goo.gl/maps/PMdn7o6e8Kd5WJbb9	busy traffic area in 30kph zone	53.338436	-6.3214143	No	Very wide junction – Further traffic calming works would need to be carried out
Charles Street Great at North Circular Road			53.357848 57	- 6.25247227 5	No	More than one lane of traffic in each direction
Sandymount Green/Sandymount Road	https://goo.gl/maps/XkpzveE4GGLrDE2n9	treacherous crossing in busy traffic area	53.356559 9	-6.2605827	No	Two new signalised pedestrian crossing were added in 2021
St Chancery Pl/Inns Quay	https://goo.gl/maps/d8J1pYzAvyUQLE7KA	Problematical?	53.345651	-6.272245	No	This location is currently been reviewed as part of an Active Travel Scheme
Junction of Distillery Road at Clonliffe Road	https://goo.gl/maps/AXtZ9ckvk45taUoQ8		53.346291 46	- 6.26574582 9	No	Parking on both sides of the roadway
Bottom of Fishamble Street at Wood Quay	https://goo.gl/maps/A4iYmhPmpJteeAAh7		53.345070 6	- 6.27000154 7	No	Visibility of turning vehicles and there is currently a plan to make the street one way
junction of Great Strand St and Millennium Walkway	https://goo.gl/maps/c9n3PxeJ1QZrpUdX9		53.346928 45	- 6.26521448 1	No	There is already an existing zebra crossing here

Hanover Quay at Herb Street restaurant, Grand Canal Dock	https://goo.gl/maps/Zvn872thhQKLWKyf7	Problematical? Low traffic?	53.344227 48	-6.23761180 5	No	Raised platform for traffic calming already in place / raised table
Homefarm road at Mobhi road Dublin 9	https://goo.gl/maps/3DLNDy2x6JVctQ3K9	close to schools and sports ground	53.376178	-6.264699	No	The current cycle way is on the footpath which may cause some issue
Camden row and Camden/Wexford street	https://goo.gl/maps/UYtFyrQV8CmLP7m49	busy turning traffic	53.336307 6	-6.2662156	No	Road Treatment already in place
Mary's Lane, junction with Greek St	https://goo.gl/maps/ps5m6ih3PDe559jZ8	very busy south-north 'rat run'	53.348056	-6.273306	No	Nearby Pedestrian crossing to be installed in 2023 under the TAG team
Moore Street @ Parnell Street	https://goo.gl/maps/fwCyR6Db51aeZzsT7	Busy ped area	53.351337	-6.263599	No	This location is at a signalised junction
Junction of Gracepark Rd, Collins Avenue & Beaumont Rd	https://maps.app.goo.gl/z2gqTAw2at2MmKgF8	Pedestrian crossing on only two arms of four way junction.	53.381050 82	-6.23919596 4	No Future Ped Scheme	Traffic Signal upgrade planned for 2023 under the TAG team -
Herberton bridge/Grand canal	https://goo.gl/maps/v9nRSKoxarpTZ36P7	possible ped lights solution?	53.333743	-6.298585	No Future Ped Scheme	This location is currently been upgraded as part of an Active Travel Scheme
Hill Street and Moore Lane at Parnell Street		Obvious areas?	53.353823	-6.258432	No Future Ped Scheme	Traffic Signal upgrade planned for 2023 under the TAG team -
Dowth Avenue at Cabra Road + Carnlough & St Peters Road	https://goo.gl/maps/db5cEVcYhaRv1uoH6	Busy bus and traffic route off Cabra Road	53.361479	-6.293436	No Future Ped Scheme	Ped Crossing to be installed soon as part of the junction upgrade

Aughrim Street at Manor Street, Stoneybatter	https://www.google.com/maps/@53.3532724,-6.2855999,3a,75y,82.82h,85.1t/data=!3m6!1e1!3m4!1sRCCs_mnst5twZ3pCnu9RSQ!2e0!7i16384!8i8192?hl=en-IE	No easy crossing at junction for pedestrians	53.3532724	-6.2855999	No - Signalised Junction	Major Bus Connects route
Exchequer St/George's		Obvious	53.34301305	-6.264308486	No - Signalised Junction	Visibility of turning vehicles could be an issue
Richmond Hill & Military Roads at Rathmines Rd	https://goo.gl/maps/yQyLbxDKo4K12dfv6	major ped movement	53.32704566	-6.26482868	No - Signalised Junction	Major Bus Connects route with a pelican crossing less than 100m away
Thomas St/Thomas Ct	https://goo.gl/maps/yQyLbxDKo4K12dfv6		53.34318012	-6.281580511	No - Signalised Junction	This location is currently been reviewed as part of an Active Travel Scheme
Swift's Row/Ormond Quay	https://goo.gl/maps/db5cEVcYhaRv1uoh6		53.3463929	-6.267948	No - Signalised Junction	New two way traffic trial currently in operation
Western Way at Mountjoy St	https://goo.gl/maps/F9HbtZWcfNjByGFdA	Problematical? Traffic lights but no peds	53.35487372	-6.268654455	No - Signalised Junction	This location is at a signalised junction
Richmond road and grace park road in Fairview	https://goo.gl/maps/34Df1CBu3rNe2qWq6		53.367472	-6.250556	No - Signalised Junction	This location is at a signalised junction
Mercer Street/Johnson's Court junction	https://goo.gl/maps/Eh9HgxNVw4FA5dx46	Uncontrolled Crossing	53.3405621	-6.2637292	Potential Zebra Location	

Johnson Place/Stephen St	https://goo.gl/maps/nXash38dJvh3Frud7	Uncontrolled Crossing	53.340765 1	-6.264481	Potential Zebra Location	
Wellington Road/Clyde Road Junction	https://goo.gl/maps/JHB6ZvX2d8Y2mm2M8	Traffic Signals that are unresponsive and low traffic	53.328167 7	-6.243865	Potential Zebra Location	
Harrington St/Syng St Junction Potential Zebra Location	https://goo.gl/maps/5difYJGoHT61Zf6N7	Nothing except school warden hours - 50 kph but busy pedestrian and cyclists' crossing	53.332514	-6.2691436	Potential Zebra Location	
Croydon Park, Marino.	https://goo.gl/maps/5difYJGoHT61Zf6N7	No crossings to access linking Park	53.368317 51	-6.23527785 8	Potential Zebra Location	
St Patrick's Road at junction of St. Anne's Road - Dublin 9	53.363307453205294, -6.260816932537629	Busy rat run traffic with no protection for crossing pedestrians	53.363307 45	-6.26081693 3	Potential Zebra Location	Four arm junction with mini roundabout
Wicklow St at Clarendon St corner	https://goo.gl/maps/wWMhWum24y5FbcCR6	major pedestrian crossing point	53.342833	-6.260639	Potential Zebra Location	Bike station - could be issue with visibility
Mountjoy Square East - Charles St Great	https://goo.gl/maps/XkpzeE4GGLrDE2n9	Access to Mountjoy Park no ped priority	53.356559 9	-6.2605827	Potential Zebra Location	Further review of traffic volumes require due to road width
Christchurch Place at Castle St	https://goo.gl/maps/XkpzeE4GGLrDE2n9	Vusy junction for traffic and peds	53.343225 9	-6.27005258	Potential Zebra Location	Visibility of turning vehicles could be an issued – further investigation required
Church Avenue at Rathmines Road	https://goo.gl/maps/s7r8iZ74kpDqujsM9		53.319967 12	-6.26484923 7	Potential Zebra Location	Visibility of turning vehicles may be an issue
Eaton Rd at Terenure Rd North	https://goo.gl/maps/yeV9RSzo4atHn6iy9	busy car park and taxi rank close by	53.311943 5	-6.286781	Potential Zebra Location	Visibility of turning vehicles may be an issue
Seafort Ave Dromard Terrace			53.333349 64	-6.21413733 2	Potential Zebra Location	Tag Pedestrian location - changed to Zebra

Seán MacDermott Street @ Buckingham Street	https://www.google.com/maps/@53.3542778,-6.2500872,3a,90y,80.29h,82.12t/data=!3m6!1e1!3m4!1s2Dvanfdy6x_BDuCogMqqq!2e0!7i16384!8i8192	Build outs already built, camera pole with mini pillar at junction	53.354277	-6.249793	Potential Zebra Location	
Bangor Road @ Old County Road	https://www.google.com/maps/@53.3275469,-6.3042801,3a,90y,155.94h,82.11t/data=!3m6!1e1!3m4!1sFn4pF5d8llo35liFqWMS-A!2e0!7i16384!8i8192	4 arm Roundabout, Illuminated bollards on 2/4 refuge islands	53.327323	-6.304153	Potential Zebra Location	Additional requirement due to roundabout and additional works may be required
Ravensdale Park @ Poddle Park	https://www.google.com/maps/@53.3139296,-6.297356,3a,75y,315.24h,90t/data=!3m7!1e1!3m5!1sWfNCNDSPHZrFjWNUiOWCA!2e0!6shhttps:%2F%2Fstreetviewpixels-pa.googleapis.com%2Fv1%2Fthumbnail%3Fpanoid%3DWfNCNDSPHZrFjWNUiOWCA%26cb_client%3Dmaps_sv.tactile.gps%26w%3D203%26h%3D100%26yaw%3D329.35608%26pitch%3D0%26thumbffov%3D100!7i16384!8i8192	Maybe Require Buildouts	53.314124	-6.297741	Potential Zebra Location	

Lorcan O'Toole Park @ Stannaway Park	https://www.google.com/maps/@53.3150638,-6.3086935,3a,74.4y,21.15h,95.82t/data=!3m6!1e1!3m4!1snXPVo6tJoxUlpdhisopmQ!2e0!7i16384!8i8192	Current Ramp location not at ped crossing desire line. May require buildouts	53.315721	-6.30814	Potential Zebra Location	
Talbot Street @ James Joyce Street	https://www.google.com/maps/@53.3509922,-6.2526883,3a,60y,250.76h,85.96t/data=!3m6!1e1!3m4!1sfK3_K5dbm3BAVGrCiQA4fw!2e0!7i16384!8i8192?hl=en-IE	Ped priority area, narrow crossings	53.350947	-6.2530586	Potential Zebra Location	
Fredrick Street South @ Nassau Street	https://goo.gl/maps/LpUDDVMsCYuYdnJn9	One way road, high volumes of peds	53.342583	-6.256281	Potential Zebra Location	
Abbey Street Luas Stop	https://goo.gl/maps/B1AkuRzEH9fg9HzWA	Busy ped area	53.348612	-6.258591	Potential Zebra Location	Review of the traffic operation and the impact on the Luas/ Buses needs to be considered
Ryder's Row @ Capel Street	https://goo.gl/maps/DGWbVp6Mu3bUf8dD7	Busy ped area	53.350211	-6.269327	Potential Zebra Location	
St. Cancies boys school, Ballygall road West	https://www.google.com/maps/place/St.+Canice's+Boys'+National+School/@53.3897949,-6.2925043,112m/data=!3m1!1e3!4m5!3m4!1s0x48670dfa8357bd27:0x1673e8831d58d49b!8m2!3d53.389617!4d-6.2922095	Primary school	53.38986	-6.29251	Potential Zebra Location	

St Pappins Road near shops.	https://www.google.com/maps/place/St+Pappin+Rd,+Ballygall,+Dublin/@53.385702,-6.265762,66m/data=!3m1!1e3!4m5!3m4!1s0x48670e0f2df80b8b:0x1cc1e2069d872329!8m2!3d53.3861742!4d-6.2703518	Local shops	53.38575	-6.2655	No - Signalised Junction
st Ciaran's special needs school on st. Cancies Rd	https://www.google.com/maps/place/St+Canices+Rd,+Glasnevin,+Dublin/@53.3840774,-6.2729806,47m/data=!3m1!1e3!4m5!3m4!1s0xe0eadd9c9eb:0xa57175b8c1afdc84!8m2!3d53.3837136!4d-6.2707003	Primary school	53.38409	-6.27293	Potential Location Zebra

APPENDIX II- COMMITTEE RECOMENDATIONS

The list below details the first 13 sites that are proposed to be for more detailed investigation as proposed by the working group

Location Name	Lat	Long	Yes/ No /Maybe	Votes
Mercer Street/Johnson's Court junction	53.340562	-6.2637292	Potential Zebra Location	1
Johnson Place/Stephen St	53.340765	-6.264481	Potential Zebra Location	2
Harrington St/Synge St Junction Potential Zebra Location	53.332514	-6.2691436	Potential Zebra Location	1
Mountjoy Square East - Charles St Great	53.35656	-6.2605827	Potential Zebra Location	1
Church Avenue at Rathmines Road	53.319967	-6.26484923 7	Potential Zebra Location	1
Seafort Ave Dromard Terrace	53.33335	-6.21413733 2	Potential Zebra Location	
Seán MacDermott Street @ Buckingham Street	53.354277	-6.249793	Potential Zebra Location	2
Ravensdale Park @ Poddle Park	53.314124	-6.297741	Potential Zebra Location	1
Talbot Street @ James Joyce Street	53.350947	-6.2530586	Potential Zebra Location	2
Abbey Street Luas Stop	53.348612	-6.258591	Potential Zebra Location	1
Ryder's Row @ Capel Street	53.350211	-6.269327	Potential Zebra Location	1
St. Cancies boys school, Ballygall road West	53.38986	-6.29251	Potential Zebra Location	1
St Ciaran's special needs school on st. Cancies Rd	53.38409	-6.27293	Potential Zebra Location	1

