Client: Dun Laoghaire Harbour Company

Project: Old Pier Tender Facility

Report Title: Traffic Management Plan

Queen Mary II

Approval Status	Author (Name)	Date	Approved by: (Signature)	Date
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1.0. INTRODUCTION

1.1. Context

Cruise ships visiting Dublin Bay will be anchored outside Dun Laoghaire Harbour in deep water as close to Dun Laoghaire Harbour as conditions allow. Passengers from the ship wishing to visit Dun Laoghaire and the surrounding area will be ferried by tenders from the ship to the berthing facility recently constructed by Dun Laoghaire Harbour Company (DLHC) at Old Pier.

This report sets out the Traffic Management Plan to be implemented by DLHC during the use of the existing berthing facility at Old Pier, Dun Laoghaire Harbour, for the visit of the Queen Mary 2 which is scheduled to arrive on Thursday 16 May 2013 at 07.00 and depart on Thursday 16 May at 18.00.

1.2. Planning Permission

Planning Permission has been granted by Dun Laoghaire Rathdown County Council under Planning Reg Ref D10A/0667 for the installation of a floating berth facility to accommodate cruise ships at Dun Laoghaire Harbour and this facility has been constructed and commissioned in 2012.

Condition 4 of the Planning Permission requires that a Traffic Management Plan be implemented in consultation with Dun Laoghaire Rathdown County Council (DLRCC) Transportation Department and an Garda Siochana.

1.3. Report Structure

The existing conditions and uses of the Old Pier and the surrounding area are described. The operating characteristics of the tender system to serve the visiting cruise ship are set out. The transport demand that will be generated by the arrival of a cruise ship at Dun Laoghaire Harbour is then described.

The Traffic Management Plan, which has been developed by Waterman Moylan and DLHC in conjunction with DLRCC Transportation Department, to manage and mitigate the impact of a cruise ship arrival on transportation in Dun Laoghaire and the vicinity of the Old Pier, is set out.

2.0. EXISTING CONDITIONS

2.1. Location

Dun Laoghaire Harbour is located on the east coast of Ireland, within walking distance of the town of Dun Laoghaire, which is the county town of Dun Laoghaire Rathdown County. The Harbour is approximately 10km south of Dublin City and to the north of the Wicklow and Dublin mountains.

Old Pier is located close to the West Pier within Dun Laoghaire Harbour, Dun Laoghaire, Co Dublin, as indicated on Drg P001.

2.2. Road Access to Old Pier

Access to the pier is provided from an internal access road system which is under the control of Dun Laoghaire Harbour Company. The pier itself is served by the Harbour Road which connects the area to the main harbour area. These roads are linked to the public road network via Coal Quay Bridge at the signal controlled junction with Dunleary Road and Crofton Road and via Harbour Road to the signal controlled junction with Crofton Road / Queens Road / Marine Road.

The Harbour Road serves Old Pier and provides access to the public parking to the east of the pier as well as to the public boat yard which is adjacent to the Old Pier area. This road consists of a carriageway approximately 6.9m wide together with a footway approximately 1.2 wide on the south side (land or railway side) of the road.

Public lighting is provided at Old Pier and the surrounding private road network.

2.3. Existing Car Parking

The pier and the adjacent parking areas are currently marked to provide approximately 208 parking spaces. Some of these spaces are leased to local business users while the majority of spaces are available for use by leisure users of the harbour facilities available in the area, including boating, diving, wind surfing and walking.

3.0. CRUISE TENDER BERTHING FACILITY AND OPERATIONS

3.1. Background

There is an increasing demand for short term visits to the east coast of Ireland by tourists from large modern cruise ships. It is intended that such ships anchor off shore in deep water as close to Dun Laoghaire as conditions allow. Visitors from the ships will then be ferried by the ship's tenders between the ship and Dun Laoghaire Harbour, where they will be provided with a range of organised tours (Dublin City Centre, Guinness Hopstore, Book of Kells, Glendalough, Powerscourt Gardens etc) or would be free to visit Dun Laoghaire town centre and surrounding areas.

Tenders are small, robust craft that are used as life boats in the event of an emergency on a cruise ship, but which are also designed to double up as passenger ferries to link the cruise ships to shore when they call to ports that do not have the facilities to accommodate direct berthing by the cruise ships.

Tenders will carry no more than 100 passengers.

3.2. Queen Mary 2 - Operating Characteristics / Requirements

The QM2 will arrive in Dun Laoghaire at on 16 May 2013 at 07.00 and depart at 18.00.

Numbers of passengers that are likely to make use of the facilities at Dun Laoghaire are as follows:-

Table 3.1 Passenger Numbers

	Percentage of total	Number
Total number of Passengers	100%	2,600
Disembarking	70%	1,820
Coach Tours	50%	1,300
Visit Dun Laoghaire Town /Local	10%	260
Public Transport / Taxis etc	10%	260

Passengers will be in a position to come ashore, or return to the ship, at any time during the day. The tender vessels will provide a "shuttle service" between the anchored cruise ship and the tender berth throughout the day.

3.3. Coach Tours

Coach tours are arranged and organised at the site by Excursions Ireland, who will have a full complement of staff on site to ensure an efficient transfer of passengers from the tenders to the waiting tour buses.

These tours are pre-booked on the cruise ship, and those passengers signing up to a coach tour will disembark at pre-determined times to catch the appropriate tour bus. Coaches will be allocated a guide and will be numbered with the tour name on the front window. They will be lined up in the Coach Parking area as per the dispatch sheet provided by the ship's staff and will be numbered in tour order.

Coaches will leave as soon as their allocation of passengers is landed so there is no concentration of departing coaches. Planned tours, and their proposed departure and return times, are indicated in the table below. This schedule is indicative and subject to change depending on demand from the cruise passengers. The final schedule will not be available until the evening before the ship's arrival.

Table 3.2 Schedule of Tours programmed for the Queen Mary 2

Tour Name	Depart	Return
Leisurely Dublin	08.00	11.30
Leisurely Dublin (German)	08.00	11.30
Discover County Wicklow	08.30	12.30
Discover County Wicklow (German)	08.30	12.30
River Cruise and Dublin Sights	08.45	12.45
River Cruise and Dublin Sights (German)	08.45	12.45
Dublin Highlight and Book of Kells	09.15	14.00
Dublin Highlight and Book of Kells (German)	09.15	14.00
City Tour and Guinness	12.30	17.00
City Tour and Guinness (German)	12.30	17.00
Traditional Dublin	13.00	16.45
Traditional Dublin (German)	13.00	16.45
River Cruise & Dublin Sights	13.00	17.00
River Cruise & Dublin Sights (German)	13.00	17.00

The scheduled Stena HSS ferry service between Dun Laoghaire and Hollyhead arrives at Berth 5 in the Harbour at 12.45 (although it can arrive earlier, depending on sea conditions) and departs at 13.30. Coach departures and returns will be timed to avoid the short term peak that occurs shortly after the arrival of the ferry.

Some of the scheduled tours will require more than one coach depending on the number of pre-bookings on board the vessel. It is currently planned that for the Queen Mary 2 the number of coach parking bays required will be:

Morning Coach Tours 12 bays Afternoon Coach Tours 5 bays

The general layout of the coach parking at Old Pier is indicated on SK-01 attached.

3.4. Other Passengers

'Free' passengers (i.e. those not taking an organised tour) are only allowed ashore when 'Tour' passengers have cleared.

To accommodate these passengers a shuttle service from Old Quay to the Royal Marine Hotel will be provided. This will consist of a single 30 seat bus with one service per half hour. It will travel between Old Pier and the Royal Marine Hotel via Harbour Road, with a stop at the Ferry Terminal Building for Dart and Dublin Bus access.

Taxis and private hire cars will attend the landing location at Old Pier, as is necessary, but even for the large vessels expected to anchor in Scotsmans Bay the volume of traffic generated is expected to be very small.

Staff parking, taxis and drop off points at Old Pier are shown on SK-01. The access routes to and from the Pier are shown on SK-02.

Pedestrians accessing public transport and visiting Dun Laoghaire locally are expected to amount to about 10% of all disembarking passengers, or 260 persons, based on the experience from other similar port calls. It is anticipated that these will generally leave the Old Pier area in the period from 10.00 to 14.00 or over a period of four hours. This will result in an average pedestrian loading of 70 persons per hour exiting the Old Pier area in the morning and early afternoon and returning in the mid and late afternoon.

In addition, there will be some taxis and private car trips generated by the arrival of the cruise ship. Taxis will be arranged locally by Excursions Ireland staff on site for passengers requiring taxis

3.5. Access to the Public Road Network

Access routes are indicated on SK-02 attached.

Vehicular access to Old Pier is via a 6.9 m wide carriage way linking to the public road at two locations, namely across the Coal Quay Bridge to Crofton Road and along Harbour Road to the roundabout at the railway station.

1. Coal Quay Bridge to Crofton Road (N31)

This access route is via the signal controlled junction on Dunleary Road / Crofton Road across Coal Quay Bridge and onto the Harbour Road. This junction currently accommodates traffic from the Holyhead ferry.

AutoTrack vehicle swept path analysis has been carried out on the access road to Old Pier from Coal Quay Bridge and shows the manoeuvre can be completed by coaches.

2. Via Harbour Road to the roundabout at the railway station.

This route provides access into the centre of Dun Laoghaire at the signal controlled junction serving Crofton Road / Queens Road / Marine Road.

The roundabout and junction can accommodate large coaches and is currently used by Dublin Bus as a bus turning area. Access and egress from the proposed development is available at this location and it is proposed that returning tour coaches be routed to this junction in preference to the Crofton Road / Coal Quay access in order to reduce possible conflicting movements that may occur with coaches entering Harbour Road from Coal Quay Bridge.

Pedestrian access to Old Pier is provided via 1.2m wide footpath along Harbour Road linking to the public footpath on Crofton Road approximately 170m from Old Pier.

3.6. **Access to Dart and Public Bus**

Dun Laoghaire Dart Station is located approximately 500 m to the east of Old Pier. This station provides a direct link to Dublin City and to Dalkey and will provide a useful link for independent travel.

Pedestrian routes to the Dart along Harbour Road and Crofton Road are indicated in Fig SK-02 below.

These routes will also provide access to Dun Laoghaire Town Centre and to local bus routes 45A, 46A, 46X, 59, 75 and 111.

3.7. **Taxi Facilities / Private cars**

Taxi and private cars collection and drop off facilities are provided in the car park to the south of Old Pier, as indicated on the attached drawing SK-01.

Local Taxi Companies will be notified in advance of the potential for taxi demand during the day of the cruise ship stay at Dun Laoghaire.

Ace Taxis Ashgrove Dun Laoghaire Tel 284 4444 Central Cabs 6 Temple Road, Blackrock Tel 288 8300

4.0 TRAFFIC MANAGEMENT PLAN

4.1. Scope of the Traffic Management Plan

The Traffic Management Plan addresses the following issues:-

- 1. Provide for advance notification and arrange for the closure of the Old Pier Car Park to ensure that the car park is available for coach parking on the day of the cruise liner visit.
- 2. Provide alternative parking instructions and directions to cars which have been diverted from the Old Pier car park.
- 3. Prepare temporary signage and markings to accommodate coach parking, taxi/private car drop off and pick up points
- 4. Prepare a schedule for coach pickup and departure and arrange for individual parking slots on site.
- 5. Prepare temporary pedestrian routing and signage to direct visitors to and from public transport and Dun Laoghaire Town Centre. These routes are via Coal Quay Bridge to Crofton Road and Harbour Road to Dun Laoghaire station and town centre. No signage is envisaged on the public road.
- 6. Provide for a traffic management supervisor on the day of the cruise liner visit to control traffic during the day on site.
- 7. Ensure that all signage and markings are removed immediately on conclusion of the cruise liner visit and that parking facilities are restored for the following day.

4.2. Advance Notification

Advance notification is required for the following:

Existing car park users Local Authority Local Taxi Companies

Advance notification will be issued by Dun Laoghaire Harbour Company.

4.3. Alternative Parking

Alternative parking for users of the Old Pier car park will be arranged by the Harbour Company.

Alternative parking will be provided in the semi-basement parking area under Harbour Plaza and at Carlisle Pier.

4.4. Temporary Signage and Markings

Temporary signage will be erected by Dun Laoghaire Harbour Company, on the day of the visit only, as indicated on SK-03.

Signage is intended to indicate the location of the Tender Berthing Facility to both visitors and to interested locals, taxis and bus operators.

Directional signage will consist of temporary signage located at:

Coal Quay Bridge at Harbour Road / Crofton Road Along Harbour Road (reminder signs)
Harbour Road / Marine Road roundabout

Signage will indicate **Queen Mary II** with a directional arrow.

All signage will be removed promptly on the departure of the ship.

4.5. Schedule for Coach Pickup and Departure

The schedule for coach pickup and departures has been prepared by Excursions Ireland and is set out in Section 3 of this report. Management of the passengers and coaches will be carried out on site by Excursions Ireland staff who are trained and experienced in this operation.

All coach drivers will be issued with clear instructions in relation to access points, parking and schedules.

4.6. Temporary Pedestrian Routing and Signage

Pedestrian routing is indicated on the attached drawing SK-02.

Assistance and guidance for pedestrians visiting the locality will be provided by Excursions Ireland staff at Old Pier.

Local signage indicating the location of the tender berthing facility will be provided as noted in item 4.4 above and as indicated on the attached drawing SK-03.

4.7. Traffic Management Supervisor

Traffic management within the coach parking area will be arranged by Excursions Ireland staff, who are experienced at planning and controlling these events.

Traffic management on the Harbour Road and access roads to the public road network will be arranged by the DLHC.

4.8. Removal of Temporary Signage and Markings

All temporary signs will be removed by DLHC within 24 hours of the ship departing.

4.9. Contacts

Contacts for organisations and individuals who will be preparing and implementing the Traffic Management Plan as well as the Roads Authority and the Garda are provided below in Table 4.1.

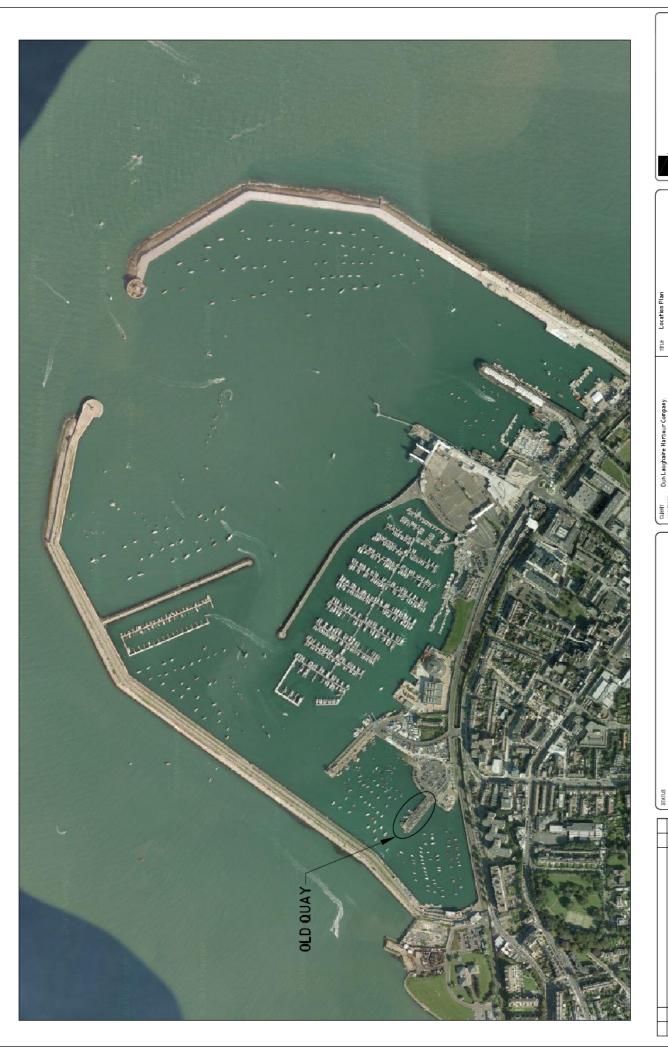
Table 4.1 Contacts

Organisation	Contact	Tel	Mobile
Dun Laoghaire Harbour Company	Cpt. Simon Coate	01 280 1311	086 262 8187
Harbour Police (Port Operations)	Tim Ryan		087 122 8576
Cruise Line			
Excursions Ireland	Niamh McCarthy		086 852 7190
DLRCC Roads Authority	John Broderick	01 205 4375	
Garda Inspector	Joseph Flynn		
Waterman Moylan	Paul O'Connell	01 664 8900	086 258 9080

APPENDIX A

DRAWINGS

10-079-P001	Location Plan
13-056 SK-01	Parking Plan
13-056-SK-02	Bus and Pedestrian Routing
13-056-SK-03	Signage Plan





CUENT Dun Laoghaire Harbour Company.
ARCHTECT ARCHECT OID Quay, Dun Laoghaire Harbour, Old Quay, Dun Laoghaire Harbour, Site Investigation

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