CONDUIT LABEL	CONDUIT DIMENSION (m)	SYDNEY WATER CHANNEL	LOCATION	Q (m^3/s) [1]	V (m/s) [2]	STORM DURATION (MIN)
A	3.6 x 2.1	30O	HAY STREET	32.6	4.3	60
B	3.1 x 2.0	30P	HAY STREET	12.2	2.0	60
C	Ø1.5	30P	PIER STREET	2.7	1.6	25
D	3.7 x 2.2	30P	PIER STREET	14.2	1.7	60
E	1.5 x 1.5	30P	TUMBALONG PARK	4.3	2.3	25
F	3.9 x 2.2	30P	IMAX THEATRE	10.8	1.3	60
G	3.1 x 2.2	30P	IMAX THEATRE	8.9	1.3	60
H	4.3 x 2.4	30O	HAY STREET	22.5	2.2	60
I	3.0 x 2.4	30O	DARLING DRIVE (CARPARK)	11.6	1.6	60
J	3.0 x 2.4	30O	DARLING DRIVE (CARPARK)	11.6	1.6	60
K	3.0 x 2.4	30O	PIER STREET	12.6	1.8	60
L	3.0 x 2.4	30O	PIER STREET	12.8	1.8	60
M	3.0 x 2.4	30O	COCKLE BAY OUTLET	12.8	1.8	60
N	3.0 x 2.4	30O	COCKLE BAY OUTLET	12.8	1.8	60
O	3.1 x 1.6	30A2	DARLING DRIVE	9.1	1.9	25
P	2.1 x 1.8	30A2	DARLING DRIVE	8.3	2.2	25
Q	3.0 x 2.4	30A2	COCKLE BAY OUTLET	14.8	2.1	25
R	3.1 x 1.6	30A	DARLING DRIVE	3.3	0.7	25
S	Ø0.9	30A	DARLING DRIVE	2.1	3.2	25
T	Ø1.1	30A	DARLING DRIVE	2.8	3.2	25
U	3.5 x 1.6	30A	COCKLE BAY OUTLET	9.4	1.7	25
V	2.1 x 0.9	30B	DARLING DRIVE	3.5	1.9	25
W	Ø1.8	30B	DARLING DRIVE	4.4	1.7	25
X	2.1 x 0.9	30BA	DARLING DRIVE	4.5	2.4	25
Y	2.7 x 1.8	30B	HARBOURSIDE	10.0	2.1	25

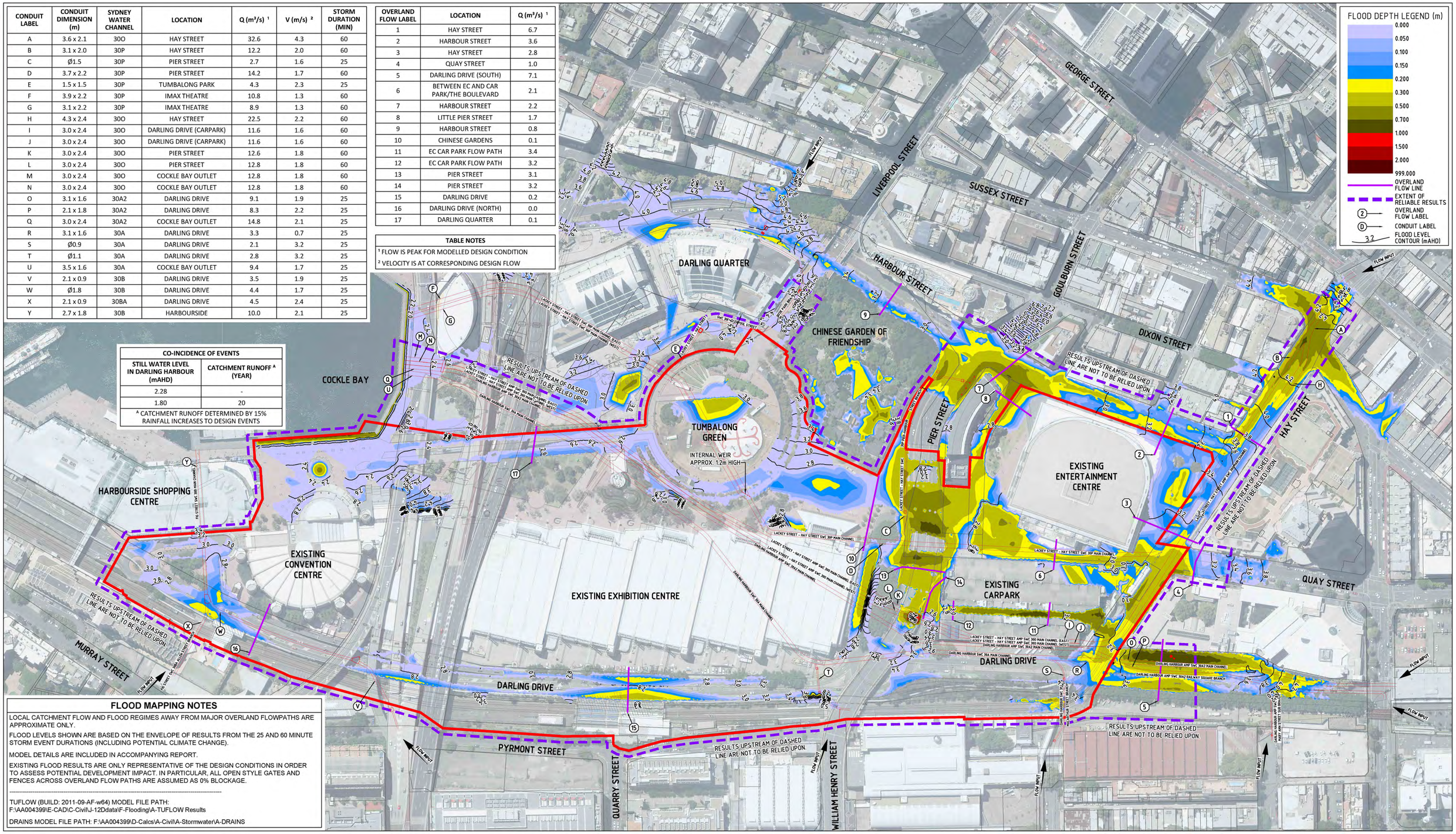
OVERLAND FLOW LABEL	LOCATION	Q (m^3/s) [1]
1	HAY STREET	6.7
2	HARBOUR STREET	3.6
3	HAY STREET	2.8
4	QUAY STREET	1.0
5	DARLING DRIVE (SOUTH)	7.1
6	BETWEEN EC AND CAR PARK/THE BOULEVARD	2.1
7	HARBOUR STREET	2.2
8	LITTLE PIER STREET	1.7
9	HARBOUR STREET	0.8
10	CHINESE GARDENS	0.1
11	EC CAR PARK FLOW PATH	3.4
12	EC CAR PARK FLOW PATH	3.2
13	PIER STREET	3.1
14	PIER STREET	3.2
15	DARLING DRIVE	0.2
16	DARLING DRIVE (NORTH)	0.0
17	DARLING QUARTER	0.1

TABLE NOTES

[1] FLOW IS PEAK FOR MODELLED DESIGN CONDITION

[2] VELOCITY IS AT CORRESPONDING DESIGN FLOW

CO-INCIDENCE OF EVENTS	
STILL WATER LEVEL IN DARLING HARBOUR (mAHD)	CATCHMENT RUNOFF [A] (YEAR)
2.28	-
1.80	20
[A] CATCHMENT RUNOFF DETERMINED BY 15% RAINFALL INCREASES TO DESIGN EVENTS	



FLOOD MAPPING NOTES

LOCAL CATCHMENT FLOW AND FLOOD REGIMES AWAY FROM MAJOR OVERLAND FLOWPATHS ARE APPROXIMATE ONLY.

FLOOD LEVELS SHOWN ARE BASED ON THE ENVELOPE OF RESULTS FROM THE 25 AND 60 MINUTE STORM EVENT DURATIONS (INCLUDING POTENTIAL CLIMATE CHANGE).

MODEL DETAILS ARE INCLUDED IN ACCOMPANYING REPORT.

EXISTING FLOOD RESULTS ARE ONLY REPRESENTATIVE OF THE DESIGN CONDITIONS IN ORDER TO ASSESS POTENTIAL DEVELOPMENT IMPACT. IN PARTICULAR, ALL OPEN STYLE GATES AND FENCES ACROSS OVERLAND FLOW PATHS ARE ASSUMED AS 0% BLOCKAGE.

TUFLOW (BUILD: 2011-09-AF-w64) MODEL FILE PATH:
F:\AA004399\E-CAD\C-Civil\J-12Ddata\F-Flooding\A-TUFLOW Results

DRAINS MODEL FILE PATH: F:\AA004399\D-Calcs\A-Civil\A-Stormwater\A-DRAINS

SYDNEY INTERNATIONAL CONVENTION, EXHIBITION AND ENTERTAINMENT PRECINCT

DARLING HARBOUR LIVE

0 30 60 90 120 150m

1 : 1500

NOTES:

1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
2. ALL COORDINATES TO MGA. ALL LEVELS TO AHD.
3. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS AND DRAWINGS.
4. PRECINCT BOUNDARIES ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE.

REV	DESCRIPTION	DATE
01	ISSUE FOR DEVELOPMENT APPLICATION	11/03/2013

CLIENT

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PROJECT

SICEEP
DARLING HARBOUR
PROJECT PRECINCT

DRAWING TITLE

20 YEAR ARI EXISTING CONDITIONS FLOOD DEPTH AND LEVEL CONTOURS INCLUDING POTENTIAL CLIMATE CHANGE

STATUS

PRELIMINARY ONLY

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1:1500	RD	CM	BC	JH

PROJECT NUMBER	DRAWING NUMBER	REV
AA004399	WP-FL-0112	01

Date Plotted: 11 Mar 2013 - 04:39PM File Name: F:\AA004399\D-Calcs\A-Civil\A-Stormwater\G-REPORT FIGURES\D-Final\WP-FL-0112-20YrARIExistingConditionsFloodDepthAndLevelContoursIncludingPotentialClimateChange.dwg

Original Sheet Size A1 - 841 x 594mm

CONDUIT LABEL	CONDUIT DIMENSION (m)	SYDNEY WATER CHANNEL	LOCATION	Q (m^3/s) [1]	V (m/s) [2]	STORM DURATION (MIN)
A	3.6 x 2.1	30O	HAY STREET	33.8	4.5	60
B	3.1 x 2.0	30P	HAY STREET	12.7	2.1	60
C	Ø1.5	30P	PIER STREET	3.5	2.0	25
D	3.7 x 2.2	30P	PIER STREET	15.4	1.9	60
E	1.5 x 1.5	30P	TUMBALONG PARK	4.4	2.3	25
F	3.9 x 2.2	30P	IMAX THEATRE	12.0	1.4	60
G	3.1 x 2.2	30P	IMAX THEATRE	9.9	1.5	60
H	4.3 x 2.4	30O	HAY STREET	23.0	2.2	60
I	3.0 x 2.4	30O	DARLING DRIVE (CARPARK)	12.5	1.7	60
J	3.0 x 2.4	30O	DARLING DRIVE (CARPARK)	12.3	1.7	25
K	3.0 x 2.4	30O	PIER STREET	15.5	2.2	60
L	3.0 x 2.4	30O	PIER STREET	15.4	2.1	60
M	3.0 x 2.4	30O	COCKLE BAY OUTLET	15.5	2.2	60
N	3.0 x 2.4	30O	COCKLE BAY OUTLET	15.4	2.1	60
O	3.1 x 1.6	30A2	DARLING DRIVE	9.3	1.9	25
P	2.1 x 1.8	30A2	DARLING DRIVE	8.5	2.2	25
Q	3.0 x 2.4	30A2	COCKLE BAY OUTLET	15.5	2.1	25
R	3.1 x 1.6	30A	DARLING DRIVE	3.0	0.6	25
S	Ø0.9	30A	DARLING DRIVE	2.1	3.4	25
T	Ø1.1	30A	DARLING DRIVE	3.3	3.8	25
U	3.5 x 1.6	30A	COCKLE BAY OUTLET	10.5	1.9	25
V	2.1 x 0.9	30B	DARLING DRIVE	4.2	2.2	25
W	Ø1.8	30B	DARLING DRIVE	5.0	2.0	25
X	2.1 x 0.9	30BA	DARLING DRIVE	5.5	2.9	25
Y	2.7 x 1.8	30B	HARBOURSIDE	11.7	2.4	25

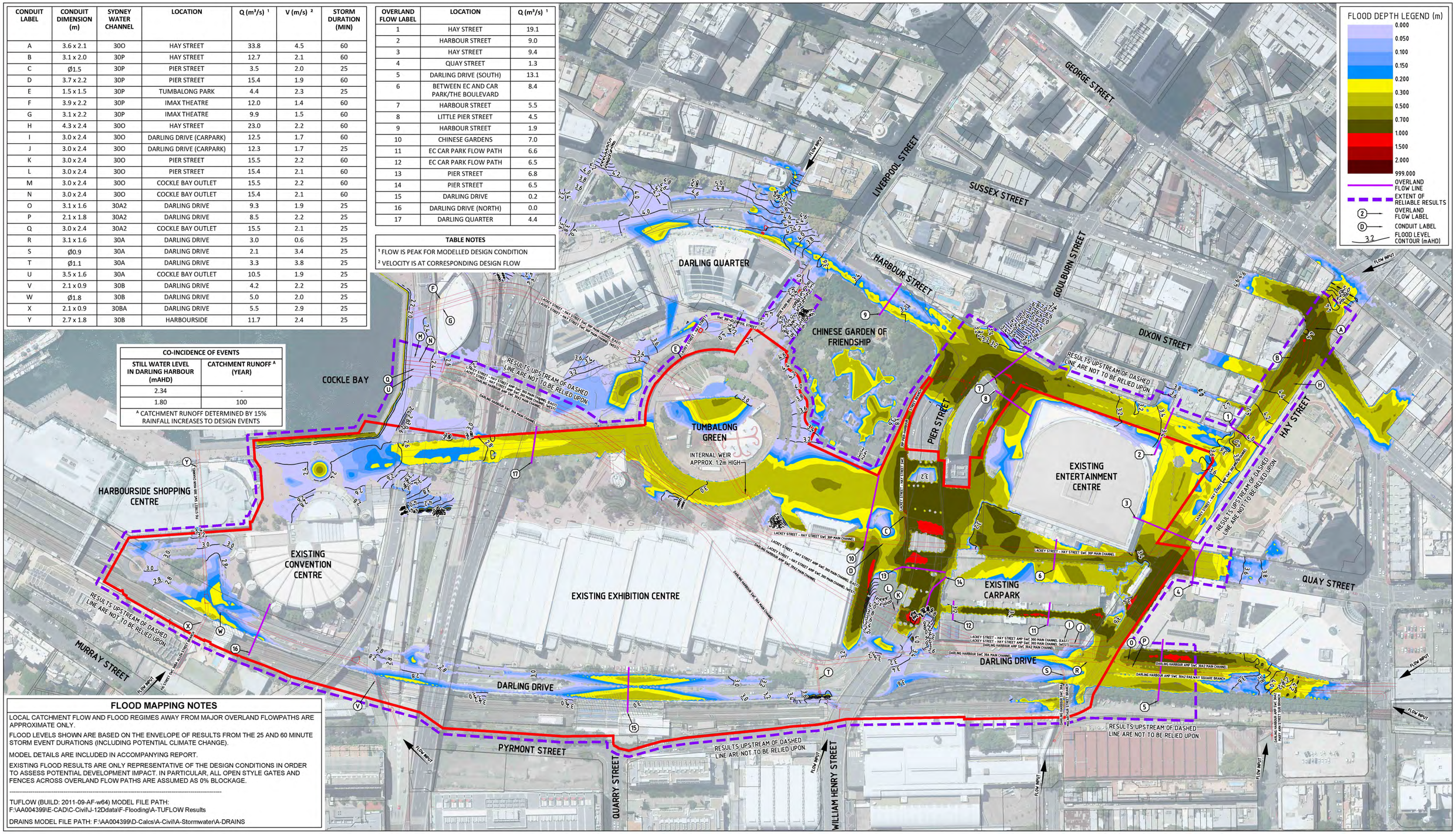
OVERLAND FLOW LABEL	LOCATION	Q (m^3/s) [1]
1	HAY STREET	19.1
2	HARBOUR STREET	9.0
3	HAY STREET	9.4
4	QUAY STREET	1.3
5	DARLING DRIVE (SOUTH)	13.1
6	BETWEEN EC AND CAR PARK/THE BOULEVARD	8.4
7	HARBOUR STREET	5.5
8	LITTLE PIER STREET	4.5
9	HARBOUR STREET	1.9
10	CHINESE GARDENS	7.0
11	EC CAR PARK FLOW PATH	6.6
12	EC CAR PARK FLOW PATH	6.5
13	PIER STREET	6.8
14	PIER STREET	6.5
15	DARLING DRIVE	0.2
16	DARLING DRIVE (NORTH)	0.0
17	DARLING QUARTER	4.4

TABLE NOTES

[1] FLOW IS PEAK FOR MODELLED DESIGN CONDITION

[2] VELOCITY IS AT CORRESPONDING DESIGN FLOW

CO-INCIDENCE OF EVENTS	
STILL WATER LEVEL IN DARLING HARBOUR (mAHD)	CATCHMENT RUNOFF [A] (YEAR)
2.34	-
1.80	100
[A] CATCHMENT RUNOFF DETERMINED BY 15% RAINFALL INCREASES TO DESIGN EVENTS	



FLOOD MAPPING NOTES

LOCAL CATCHMENT FLOW AND FLOOD REGIMES AWAY FROM MAJOR OVERLAND FLOWPATHS ARE APPROXIMATE ONLY.

FLOOD LEVELS SHOWN ARE BASED ON THE ENVELOPE OF RESULTS FROM THE 25 AND 60 MINUTE STORM EVENT DURATIONS (INCLUDING POTENTIAL CLIMATE CHANGE).

MODEL DETAILS ARE INCLUDED IN ACCOMPANYING REPORT.

EXISTING FLOOD RESULTS ARE ONLY REPRESENTATIVE OF THE DESIGN CONDITIONS IN ORDER TO ASSESS POTENTIAL DEVELOPMENT IMPACT. IN PARTICULAR, ALL OPEN STYLE GATES AND FENCES ACROSS OVERLAND FLOW PATHS ARE ASSUMED AS 0% BLOCKAGE.

TUFLOW (BUILD: 2011-09-AF-w64) MODEL FILE PATH: F:\AA004399\E-CAD\C-Civil\J-12Ddata\F-Flooding\A-TUFLOW Results

DRAINS MODEL FILE PATH: F:\AA004399\D-Calcs\A-Civil\A-Stormwater\A-DRAINS

SYDNEY INTERNATIONAL CONVENTION, EXHIBITION AND ENTERTAINMENT PRECINCT

DARLING HARBOUR LIVE

0 30 60 90 120 150m

1 : 1500

NOTES:

1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
2. ALL COORDINATES TO MGA. ALL LEVELS TO AHD.
3. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS AND DRAWINGS.
4. PRECINCT BOUNDARIES ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE.

REV	DESCRIPTION	DATE
01	ISSUE FOR DEVELOPMENT APPLICATION	11/03/2013

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Fax: +61 (0)2 8907 9001
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PROJECT

SICEEP
DARLING HARBOUR
PROJECT PRECINCT

DRAWING TITLE

100 YEAR ARI EXISTING CONDITIONS FLOOD DEPTH AND LEVEL CONTOURS INCLUDING POTENTIAL CLIMATE CHANGE

STATUS

PRELIMINARY ONLY

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1:1500	RD	CM	BC	JH

PROJECT NUMBER	DRAWING NUMBER	REV
AA004399	WP-FL-0113	01

Date Plotted: 11 Mar 2013 - 04:41PM File Name: F:\AA004399\D-Calcs\A-Civil\A-Stormwater\G-REPORT FIGURES\D-Final\WP-FL-0113-100YrARIExistingConditionsFloodDepthAndLevelContoursIncludingPotentialClimateChange.dwg

Original Sheet Size A1 - 841 x 594mm

CONDUIT LABEL	CONDUIT DIMENSION (m)	SYDNEY WATER CHANNEL	LOCATION	Q (m^3/s) [1]	V (m/s) [2]	STORM DURATION (MIN)
A	3.6 x 2.1	30O	HAY STREET	36.9	4.9	15
B	3.1 x 2.0	30P	HAY STREET	13.9	2.3	15
C	Ø1.5	30P	PIER STREET	3.7	2.1	15
D	3.7 x 2.2	30P	PIER STREET	21.7	2.6	30
E	1.5 x 1.5	30P	TUMBALONG PARK	5.4	2.8	45
F	3.9 x 2.2	30P	IMAX THEATRE	17.4	2.0	45
G	3.1 x 2.2	30P	IMAX THEATRE	14.0	2.1	45
H	4.3 x 2.4	30O	HAY STREET	24.2	2.3	15
I	3.0 x 2.4	30O	DARLING DRIVE (CARPARK)	12.9	1.8	30
J	3.0 x 2.4	30O	DARLING DRIVE (CARPARK)	12.8	1.8	15
K	3.0 x 2.4	30O	PIER STREET	20.1	2.8	45
L	3.0 x 2.4	30O	PIER STREET	20.3	2.8	45
M	3.0 x 2.4	30O	COCKLE BAY OUTLET	20.6	2.9	45
N	3.0 x 2.4	30O	COCKLE BAY OUTLET	20.3	2.8	45
O	3.1 x 1.6	30A2	DARLING DRIVE	11.0	2.3	15
P	2.1 x 1.8	30A2	DARLING DRIVE	9.9	2.6	15
Q	3.0 x 2.4	30A2	COCKLE BAY OUTLET	18.5	2.6	15
R	3.1 x 1.6	30A	DARLING DRIVE	2.1	0.4	15
S	Ø0.9	30A	DARLING DRIVE	2.9	4.5	15
T	Ø1.1	30A	DARLING DRIVE	4.8	5.6	15
U	3.5 x 1.6	30A	COCKLE BAY OUTLET	13.6	2.4	30
V	2.1 x 0.9	30B	DARLING DRIVE	8.2	4.3	45
W	Ø1.8	30B	DARLING DRIVE	6.4	2.5	15
X	2.1 x 0.9	30BA	DARLING DRIVE	6.3	3.3	15
Y	2.7 x 1.8	30B	HARBOURSIDE	20.1	6.9	45

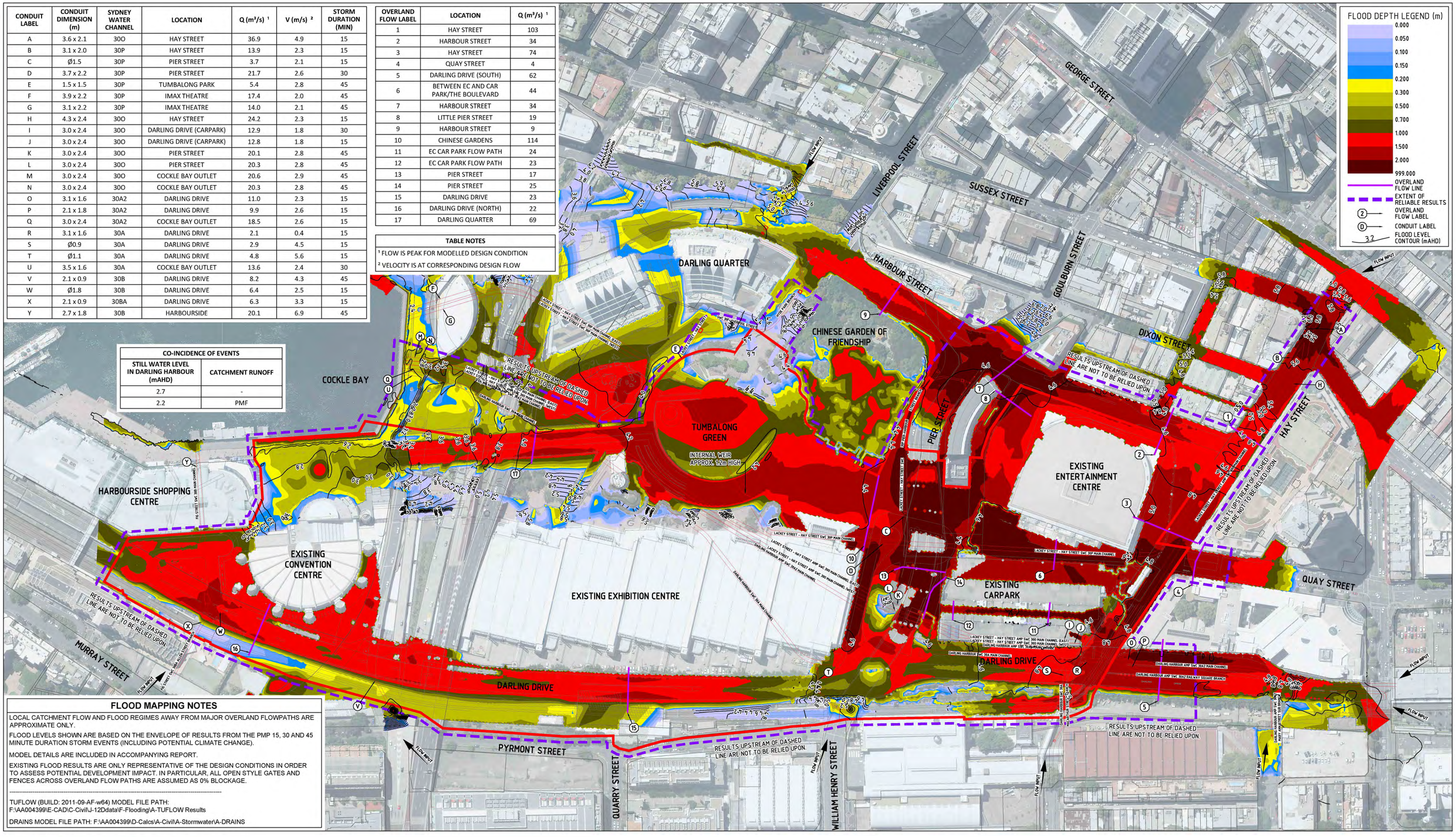
OVERLAND FLOW LABEL	LOCATION	Q (m^3/s) [1]
1	HAY STREET	103
2	HARBOUR STREET	34
3	HAY STREET	74
4	QUAY STREET	4
5	DARLING DRIVE (SOUTH)	62
6	BETWEEN EC AND CAR PARK/THE BOULEVARD	44
7	HARBOUR STREET	34
8	LITTLE PIER STREET	19
9	HARBOUR STREET	9
10	CHINESE GARDENS	114
11	EC CAR PARK FLOW PATH	24
12	EC CAR PARK FLOW PATH	23
13	PIER STREET	17
14	PIER STREET	25
15	DARLING DRIVE	23
16	DARLING DRIVE (NORTH)	22
17	DARLING QUARTER	69

TABLE NOTES

[1] FLOW IS PEAK FOR MODELLED DESIGN CONDITION

[2] VELOCITY IS AT CORRESPONDING DESIGN FLOW

CO-INCIDENCE OF EVENTS	
STILL WATER LEVEL IN DARLING HARBOUR (mAHD)	CATCHMENT RUNOFF
2.7	-
2.2	PMF



FLOOD MAPPING NOTES

LOCAL CATCHMENT FLOW AND FLOOD REGIMES AWAY FROM MAJOR OVERLAND FLOWPATHS ARE APPROXIMATE ONLY.

FLOOD LEVELS SHOWN ARE BASED ON THE ENVELOPE OF RESULTS FROM THE PMP 15, 30 AND 45 MINUTE DURATION STORM EVENTS (INCLUDING POTENTIAL CLIMATE CHANGE).

MODEL DETAILS ARE INCLUDED IN ACCOMPANYING REPORT.

EXISTING FLOOD RESULTS ARE ONLY REPRESENTATIVE OF THE DESIGN CONDITIONS IN ORDER TO ASSESS POTENTIAL DEVELOPMENT IMPACT. IN PARTICULAR, ALL OPEN STYLE GATES AND FENCES ACROSS OVERLAND FLOW PATHS ARE ASSUMED AS 0% BLOCKAGE.

TUFLOW (BUILD: 2011-09-AF-w64) MODEL FILE PATH: F:\AA004399\E-CAD\C-Civil\J-12Ddata\F-Flooding\A-TUFLOW Results

DRAINS MODEL FILE PATH: F:\AA004399\D-Calcs\A-Civil\A-Stormwater\A-DRAINS

SYDNEY INTERNATIONAL CONVENTION, EXHIBITION AND ENTERTAINMENT PRECINCT

DARLING HARBOUR LIVE

0 30 60 90 120 150m

1 : 1500

NOTES:

1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
2. ALL COORDINATES TO MGA. ALL LEVELS TO AHD.
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PROJECT

SICEEP
DARLING HARBOUR
PROJECT PRECINCT

DRAWING TITLE

PMF
EXISTING CONDITIONS
FLOOD DEPTH AND LEVEL CONTOURS
INCLUDING POTENTIAL CLIMATE CHANGE

STATUS

PRELIMINARY ONLY

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1:1500	RD	CM	BC	JH

PROJECT NUMBER	DRAWING NUMBER	REV
AA004399	WP-FL-0114	01

Date Plotted: 11 Mar 2013 - 04:42PM File Name: F:\AA004399\D-Calcs\A-Civil\A-Stormwater\G-REPORT FIGURES\D-Final\WP-FL-0114-PMFExistingConditionsDepthAndLevelContoursIncludingPotentialClimateChange.dwg

Original Sheet Size A1 - 841 x 594mm