

Report to Housing SPC

Date: Thursday 11th January 2018

Item No.

Housing Supply Report January 2018

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3347

Dublin City Council target under Housing Strategy 2015-2017

Capital Programme Target under Social Housing Investment Programme (SHIP) 1498

Current Programme Target under Social Housing Current Expenditure Programme (SHCEP) 1849

Funding Allocation Provided: €292m

Delivered	2015	2016	2017	Total 2015 to 2017
Units Completed to date	565	511	634	1710
Part V		25	56	81
Buy and Renew Scheme			3	3
Rapid Home Delivery		22	130	152
Voids Restored	1012	975	879	2866
HAP Tenancies, Homeless (Dublin Region)	112	934	1579	2625
HAP Tenancies (General)			1040	1040
Outturn	1689	2467	4321	8477

Projected Delivery to 2020	2017	2018	2019	2020	Total
Units Under Construction		246	98	80	424
Units currently being acquired		368	107		475
Buy & Renew		11			11
Repair & Lease		12			12
Part V Units		54	104		158
Units at Tender Stage			238	129	367
Capital Appraisals Submitted to Department		67	97	274	438
Units at Preliminary Planning/Design			114	435	549
Potential Units from Vacant Council Lands				493	493
Sites for Social housing PPP Bundle 1				220	220
Projected Acquisitions		100	100	100	300
Rapid Home Delivery		141	250	379	770
Voids		800	800	800	2400
НАР		1300	2000	2000	5300
HAP Homeless		1000			1000
Total Delivery of Units		4099	3908	4910	12917

Schemes completed to date - Department of Housing, Planning and Local Government (DHPLG) Capital Works Management Framework (CWMF) Stage 4

Committee Area/ Housing Category	Provider	Schemes	Funding Programme	No of Units
General Needs	DCC	General Acquisitions	LA housing	162
North Central/General Needs	DCC	Buttercup, Darndale, Dublin 17	LA housing	26
South Central/ North Central	DCC	Buy and Renew Scheme	B&R	3
		Total Acquisitions & Constructions		191
South East	DCC	Charlemont, Dublin 2 (Block 3)	PPP	79
		Total PPP		79
North West	DCC	St. Helena's, Finglas.	Rapid Build	39
South Central	DCC	Cherry Orchard, Ballyfermot	Rapid Build	24
North Central	DCC	Belcamp	Rapid Build	38
South Central	DCC	Mourne Road	Rapid Build	29
		Total Rapid		130
			LA Part V	
			Housing	
South Central	DCC	Alexander Walk, Whitefriar Street	(Acquisitions)	2
North West	DCC	2 Hamilton Walk, Dublin 15	LA Part V	1
			Housing	
			(Acquisitions)	
South East	DCC	53 Units Shelbourne Plaza, Charlotte Quay, Dublin 4, in lieu of units	LA Part V	53
		on site D4 Hotel Site	Housing	
			(Acquisitions)	
		Total Part V		56
	AHB	Various	CALF/Leasing	266
	AHB	Various	CAS	101
		Overall Total Completions		823

		Schemes	s Under Const	ruction	- DHPLGH CWMF Stage	4	
Committee Area/ Housing Category	Provider	Schemes	Funding Programme	No of Units	Status	Next Milestone	Expected Completion Date
North Central – General Needs	Dublin City Council	Buttercup Darndale, D 17	LA Housing	9	10 units handed over to date. Further 16 units handed over Dec 2017 with remaining 9 units by Q1 2018	Completion of Scheme	Q1 2018
North Central – General Needs	Dublin City Council	Priory Hall, D 13	LA Housing	26	Phases 1-5 (Blocks 1 – 7) complete. Phase 6 (Blocks 8-20) commenced on site 6th June. 24 month construction contract	Completion of phased handover of blocks 13-20 (July 2018).	Q2 2019
South Central - General Needs		Dolphin House, D8 Phase 1	Regeneration	100	Construction ongoing	Complete construction Phase 1	Q2 2018
Central/General Needs	Dublin City Council	Ballybough Road	LA Housing	7	On site	Completion of works	Q3 – 2018
South Central Special Needs	АНВ	John's Lane West D8 (Focus)	CALF	31	Accelerated CALF approved 09/05/2017	Completion of works	Q4 2018
North Central General Needs	АНВ	Richmond Road (CHI)	CALF	39	On site	Completion of works	Q3 2018
South Central General Needs	АНВ	Cherry Orchard Meadow, D10 (CHI)	CALF	72	On site	Completion of Works	Q1 2019
South Central Special Needs	AHB	Raleigh Square D12 (Tuath)	CALF	33	On site	Completion of works	Q4 2018
Central/General Needs	АНВ	St. Mary's Mansions (Clúid)	CALF	80	On site	Completion of works	2020

	Schemes Under Construction - DHPLGH CWMF Stage 4										
Committee Area/ Housing Category	Provider	Schemes	Funding Programme	No of Units	Status	Next Milestone	Expected Completion Date				
Central - Special Needs	АНВ	Martanna House, High Park (Respond)	CAS	8	On site	Completion of works	Q4 2018				
South East - Special Needs	АНВ	Beechill Dublin 4 (RHDVHA)	CAS	19	On Site	Completion of works.	Q3 2018				
	Total			424							

Units Currently Being Acquired – DHPLG CWMF Stage 4

Committee Area/ Housing Category	Provider	Schemes	Funding Programme	No of Units	Status	Next Milestone	Expected Completion Date
Various Areas	Dublin City Council	General Acquisitions	LA Housing (Acquisitions)	106	With Law Department	Closing of Acquisitions ongoing	2018
North West Area	DCC	Turnkey Prospect Hill - Block B	LA Housing	58	Snagging Process commenced	Closing of Acquisitions	2018
Central General Needs	DCC	Liffey Trust, Dublin 1 (DCC)	Leasing	10	DHPLG has approved proposal	Authorisation finalised with DHPLG, progressing with completing agreements. To be delivered as units become vacant.	2018
All Areas	АНВ	AHBs/General Needs & Special Needs	Leasing	271	In progress		
All Areas	АНВ	AHBs/General Needs & Special Needs	CAS	30	In progress		
	GRAND TOTAL	Units being acquired		475			

		S	chemes at Tei	nder St	age		
Committee Area/ Housing Category	Provider	Schemes	Funding Programme	No of Units	Status	Next Milestone	Expected Completion Date
South Central General Needs	Dublin City Council	St. Teresa's Gardens	Regeneration	54	Enabling works 2 (services diversions) Contract awarded. Enabling 5 (4 blocks blue zone) currently being demolished. PIP works to be done. Draft framework document prepared. Cost submission Stage 3 issued to Department Aug 2017. Part 8 initiated, 4 additional houses and increased park. SCA meeting 18/10/2017. CBA completed.	Completion of Enabling 5 demolition contract (2 blocks). contract to be awarded for further 2 blocks. Enabling 4 (50 Donore Ave) works to commence. Revised framework plan to be completed and submitted to DHPCLG for approval. Main Contract and PIP contract to be tendered.	Q4 – 2019
Central Area General Needs	Dublin City Council	O'Devaney Gardens	Regeneration	56	Stage 1 approval received. Stage 2 application (outline design) sent to Dept May 17. Seeking to relocate remaining occupants so as to deliver an unencumbered site when going to market.	Design Team appointed and main tender to issue. Stage 2 approval to issue. Tender to issue for demolition of 2 blocks	2020
Central General Needs	Dublin City Council	North King Street - Sean Foster Place	LA Housing	30	Part 8 approved July 2016. Stage 3 approval received. Tenders returned 15 th Dec 2017	Assessment of tenders	Q3 2019

		S	chemes at Te	nder St	age		
Committee Area/ Housing Category	Provider	Schemes	Funding Programme	No of Units	Status	Next Milestone	Expected Completion Date
Central – General Needs	Dublin City Council	Dominick Street (East Side)	Regeneration	73	Detail design and tender documentation being prepared. Bill of Quantities to be prepared. Stage 3 application for approval to go to tender submitted 02/10/2017	Value Engineering to be completed. Finalise costings and obtain approval from DHPCLG (Stage 3). Target of main tender to issue Q1 2018	Q1 2020
North Central General Needs	Dublin City Council	Belcamp (site B)	LA Housing	12	Scheme approved in principle by DHPLG. Outline design to be prepared.	Outline design to be completed. Seek Stage 3 (approval to go to tender)	Q3 2019
North Central General Needs	Dublin City council	Belcamp (Site C)	LA Housing	16	Scheme approved in principle by DHPLG. Outline design to be prepared.	Outline design to be completed. Seek Stage 3 (approval to go to tender)	Q3 2019
North West Special Needs	АНВ	Wad River Close, Ballymun (Cluid)	CALF	9	Decision to grant planning permission made 27/11/2017	Final Grant to Issue	Q1 2019
Central/Special Needs	АНВ	Poplar Row, Dublin 3 (Oaklee)	CALF	29	Transfer to be completed. Commence on site 8/1/18	Commence on site	2019
South Central/Special Needs	АНВ	Dolphin Park D8 (FOLD)	CALF	43	To commence on site January 2018	Commence on site	Q2 2019

	Schemes at Tender Stage												
Committee Area/ Housing Category	Provider	Schemes	Funding Programme	No of Units	Status	Next Milestone	Expected Completion Date						
Central	АНВ	North King Street 84 (Co-operative Housing Ireland)	CALF	30	Tenders being assessed	Appoint Contractor. On site Q2 2018	Q2 2019						
South Central — Special Needs	АНВ	Rafter's Lane, D. 12. (Walkinstown Housing Assoc.)	CAS	15	Stage 4: Tender report received	DCC to review tender report	2019						
	GRAND TOTAL			367									

			Capital A	ppraisals s	ubmitted to DHPLG		
Committee Area/ Housing Category	Provider	Schemes	Funding Programme	No of Units	Status	Next Milestone	Expected Completion Date
South Central General Needs	Dublin City Council	Cornamona, Ballyfermot	LA Housing	61	Part 8 approved at November Council meeting. CBA submitted. Revised cost plan being repaired.	Prepare tender for issuing March 2018	Q2 2020
Central General Needs	Dublin City Council	Infirmary Road/ Montpelier Hill	LA Housing	30	Design Team Appointed. Masterplan being prepared.	Submission of Part 8 Q1 2018.	Q4 2020
Central General Needs	Dublin City Council	Croke Villas/Sackville Avenue Cottages	Regeneration	74	Part 8 - Sackville Ave. completed. Part 8 - Main construction and new boulevard submitted to December Council meeting. CBA completed. Stage 2 application submitted to DHPLG	Complete demolitions. Preparation of tender documents.	Q2 2020
South East General Needs	Dublin City Council	Moss Street, Dublin 2	LA Housing	22	Proposal to acquire 22 units in exchange for transfer of development site approved	Legals to be completed	2020
North West Aread	Dublin City Council	St. Finbar's Cabra	LA Housing	35	Stage 1 Application submitted to DHPLG. Approval received December 17	Prepare Cost plan for Stage 2 approval	2020
South Central/Special Needs	АНВ	Site 1B St. Michaels Estate (Alone/Circle)	CAS	52	CAS funding application submitted to DHPLG December 2017	Approval to issue from DHPLG	2020
South East – Special needs	АНВ	Townsend Street 180-187 (Peter McVerry Trust)	CAS	18	Planning application lodged 5/10/17 - 3991/17. Decision to grant PP made 29/11/2017	Final decision on planning application.	2019

			Capital A	ppraisals s	submitted to DHPLG		
Committee Area/ Housing Category	Provider	Schemes	Funding Programme	No of Units	Status	Next Milestone	Expected Completion Date
Central/Special Needs	АНВ	Ellis Court, D.7. (Túath)	CAS	22	Planning application lodged 19/9/2017 - 3885/17. Decision made to grant PP	Final decision on planning application.	2019
South Central/Special Needs	АНВ	New Street, D8 (Peter McVerry Trust)	CAS	6	Stage 2 approved	1) Appointment of design team. 2) Lodgement of planning application.	2019
Central/ Special Needs	AHB	Arbour Hill (Dublin Simon)	CAS	18	Stage 1 application submitted to DHPLG. Approved	Submission of Stage 2 application	2019
South East – General Needs	AHB	Shaw Street Pearse St (Peter McVerry Trust)	CAS	11	Preliminary design received. Cost plan received. DCC awaiting further information re costs.	Review costs.	2019
Central Special Needs	АНВ	Bolton St, Dublin 1 (NOVAS)	CAS	8	Stage 1 approved	Submission of Stage 2 application	2019
South Central Special Needs	АНВ	Kilmainham Cross (Novas Initiatives)	Request for CAS funding	11	Stage 1 approved January 2017. Agreed to transfer site to DCC	Complete transfer of site to DCC	2019
Central/Special needs	АНВ	Dominick Place (The Aids Fund)	CALF	9	Conditional Approval granted 16/05/2017	Tender docs to be prepared	Q1 2019
South Central/General needs	АНВ	Long Mile Road, Dublin 12 (Respond!)	CALF	61	Conditional approval granted 31/01/2017	Developer to commence on site	2019
Grand total				438			

			Schemes a	t Prelimin	ary Planning/Design		
Committee Area/ Housing Category	Provider	Schemes	Funding Programme	No of Units	Status	Next Milestone	Expected Completion Date
Central	Dublin City Council	Redevelopment of Dorset St Flats		115	Stage 1 application submitted to DHPLG	Stage 1 approval	2020
Sth Central – General Needs	Dublin City Council	Dolphin Phase 2	Regeneration	90	Design being examined. Cost Benefit Analysis being drafted	Outline design & masterplan to be agreed. CBA to be completed	2020
North Central - General Needs	Dublin City Council	Belcamp/Oblate Lands			New Masterplan required. Review underway of particulars of site and associated services.	Determine development options.	
North West Area	Dublin City Council	Lands at Kildonan	LA Housing		Feasibility/review to be completed		
South East – General Needs	Dublin City Council	Charlemont (BI 4) Dublin 2	PPP	15	DCC to exercise an option to acquire further units at this location (15 units at 10% discount on market value)	Agree cost of 15 units with Developer and submit to DHPCLG for funding	2020
North West – General Needs	Dublin City Council	Collins Avenue, Thatch Road	LA Housing	80	Affected by proposals for new high speed bus lane from Swords to City Centre, which will reduce number of units. Traffic Department is confirming the exact reservation required. Issue of title to be resolved.	Determine when site will be available for future development. Title issues resovled.	2020

			Schemes a	t Prelimir	ary Planning/Design		
Committee Area/ Housing Category	Provide r	Schemes	Funding Programme	No of Units	Status	Next Milestone	Expected Completion Date
South Central	Dublin City Council	Bow Lane West, James's Street	LA Housing	4	DCC owns site. Title issues. Feasibility study received from PMcVT. On hold.	Resolve title issues.	2019
South Central	АНВ	Phase 1, Jamestown Court, Inchicore Dublin 10 (ALONE)	CALF	8	Planning permission granted for Phase 1 development of 8 units in 1st block. Valuers engaging with beneficiaries of estate	Ownership of site to be finalised	2019
South East/ Special Needs	АНВ	Bethany House, Sandymount (Clúid)	CALF	64	Proposed redevelopment of existing 38 units, and the addition of an extra 26 units. Plan to do new build first. Design Team appointed March 2017. Expect to lodge for PP December 2017	Lodge planning application.	2019
Central	АНВ	Site at Railway St opposite Peadar Kearney House (Circle)	CALF	34	Design team appointed	Lodgement of planning application	2020
South Central	AHB (Circle)	Coruba House lands, Dublin 12 (Circle)	CALF	20	FS study received from Circle	Circle to review Feasibility Study	2019
North West	АНВ	High Park, Grace Road (Respond)	CALF	101	At Planning Stage	AHB to submit revised proposal to An Bord Pleanála	2020
North West/ Special Needs	АНВ	Ratoath Avenue, Dublin 11 (NOVAS)	CAS	6	Revised Design submitted.	Stage 1 application to be lodged	Q1 2019

Schemes at Preliminary Planning/Design							
Committee Area/ Housing Category	Provide r	Schemes	Funding Programme	No of Units	Status	Next Milestone	Expected Completion Date
Central/Specia I Needs	АНВ	Debtors Prison (Peter McVerry Trust)	CAS	12	Stage 1 application received. Protected structure. AHB to update drawings. Suitable for discussion with Fire Officer	Submit Stage 1 application to DHPLG	2019
TOTAL				549			

PART V								
Committee Area/ Housing Category	Provider	Schemes	Funding Programme	No of Units	Status	Next Milestone	Expected Completion Date	
Central	AHB (Tuath)	Castleforbes, Northbank, D.1	LA Housing (Acquisitions)	26	Funding approval granted 18/7/2017	To be acquired.	Q1 2018	
North Central	АНВ	Clongriffin (The Iveagh Trust)	CALF	84	On site	Iveagh Trust to acquire units once complete	2019	
North West	Dublin City Council	Royal Canal Park	LA Housing (Acquisitions)	10	Funding approved by DHPCLG	Units acquired.	Ongoing 2017 to 2019	
Central	Dublin City Council	49A-51 Arbour Hill	LA Housing (Acquisitions)	2	Funding approved by DHPCLG	Development almost complete	Q4 2017	
South East	Dublin City Council	Marianella, Rathgar, Dublin 6	LA Housing (Acquisitions)	19	Funding approved by DHPCLG	Units acquired.	Ongoing to 2018	
South East	Dublin City Council	Terenure Gate, Terenure, Dublin 6W	LA Housing (Acquisitions)	5	Funding approved.	Units acquired.	Ongoing to 2018.	
North Central	Dublin City Council	119 Howth Road, Clontarf, Dublin 3	LA Housing (Acquisitions)	1	Funding approved	Unit acquired.	Ongoing to 2018	
South East	Dublin City Council	Church Avenue, Rathmines, Dublin 6	LA Housing (Acquisitions)	1	Agreement in place.	Unit acquired.	Q2 2018	
North West	Dublin City Council	Pelletstown, Dublin 15	LA Housing (Acquisitions)	10	Agreement in place.	Unit acquired.	Q1 2019	
	TOTAL			158				

Vacant Council L	ands (Total Residential Dwellings to include 30% Social Housing)	
Schemes/Sites	Comment	Social Units
O Devaney Gardens + Infirmary Road Central - General Needs	Economic Appraisals and Cost Benefit Analysis drafts complete. Project Programme review completed. Consultative forums established. Project Board and Corporate Governance adopted. Legal and procurement teams in place. Development opportunity advertised in national press 28/4/17. Procurement process initiated with publication of the Prior Information Notice (PIN) on E-Tenders 20/6/17. Project Information Memorandum & Pre-Qualification Questionnaire to be published on E-Tenders w/e 13/8/2017. PQQ/PIM Published Final date for replies 25/09/2017. Draft ITPD & Development Agreement documents in place. Total Units 585	175
Oscar Traynor Road North Central - General Needs	Economic Appraisals and Cost Benefit Analysis drafts complete. Project Programme review completed. Consultative forums established. Project Board and Corporate Governance adopted. Legal and procurement teams in place. Development opportunity advertised in national press 28/4/17. Procurement process initiated with publication of the Prior Information Notice (PIN) on E-Tenders 20/6/17. PIM & PQQ to follow after O'Devaney Gardens. Total Units 640	192
St Michaels Estate South Central - General Needs	Economic Appraisals and Cost Benefit Analysis drafts complete. Project Programme review completed. Consultative forums established. Project Board and Corporate Governance adopted. Legal and procurement teams in place. Development opportunity advertised in national press 28/4/17. Procurement process initiated with publication of the Prior Information Notice (PIN) on E-Tenders 20/6/17. PIM & PQQ to follow after O'Devaney Gardens. Total Units 420	126
Total	1645	493
	Sites for Social Housing PPP; Bundle 1	
Schemes/Sites	Comment	Approx.
Scribblestown (Lot 5) - Nowrth West General		
Needs	Part 8 approved at December Council meeting	70
Ayrfield (part of) North Central - General Needs and Special Needs	The Public Consultation Phase for the planning proposal ended on August 22 nd and approximately 360 submissions were received. Part 8 report submitted and approved at October Council meeting.	150
Total		220

Rapid Home Delivery								
Scheme/Sites	No. of Units	Status	Next Milestone	Expected Completion Date				
HSE Lands Ballyfermot	53	Contract Awarded	Contractor commenced on site November 2017	Q4 2018				
Woodbank Drive	3	Contract Awarded	Contractor commenced on site November 2017,	Q2 2018				
Rathvilly Park / Virginia Park	13	Contract Awarded	Contractor commenced on site November 2017	Q2 2018				
Total	69							

Rapid Home Delivery - Apartments							
Scheme/Sites	No. of Units	Status	Next Milestone	Expected Completion Date			
Fishamble Street	6	Assessment of tenders completed - Framework in place. Propose to initiate Part 8 March 2018	Part 8 initiated	Q4 2018			
Bunratty Road	66- tbc	Assessment of tenders completed - Framework in place. Propose to initiate Part 8 March 2018	Part 8 initiated	Q3 2019			
Total	72						

Rapid Home Delivery Phase 2 - Volumetric							
Scheme/Sites	No. of Units	Status	Expected Completion				
Cork Street (adjoining Weaver Park)	40	Prepare Draft Design	2020				
The Valley Site, St. Helenas Road, Finglas	150	Proposal to include both private (100 approx) and social (50 approx) units.	2019				
Slademore Ayrfield	15	Review Site and Feasibility	2019				
Springvale Chapelizod	81	Review Designs	2020				
Croftwood Gardens & Environs	45	Review Designs	2019				
Spine Site	80	Review Designs	2020				
Woodville House/Kilmore Road	40	Draft Design	2019				
Grand Canal Harbour Site	80	Prepare Draft Design	2020				
Weaver Street	40	Prepare Draft Design	2020				
Bridgefoot Street	58	Feasibility Study and Design in place	2020				
Total	629						

Repair and Lease								
Committee Area	Provider	Scheme/ Property Address	No. of Units	Status	Next Milestone	Refurb work to be completed by	Expected Closing Date	
Central	Private owner	Richmond Crescent, North Circular Rd., Dublin 1	1	Inspected	Additional information required from owner	DCC	Q4 2017	
Central	Private owner	Ormond Place, Dublin 1	1	Inspected	Owner to submit schedule of works	DCC	Q4 2017	
Central	АНВ	Alexander Terrace, North Wall, Dublin 1	1	Inspected	Waiting update from AHB	АНВ	Q4 2017	
North West	Private owner	Gallaun Road, Poppintree, Dublin 11	1	Inspected	Additional information required from owner	DCC	Q4 2017	
North Central	Private owner	Edenmore Shopping Centre, Raheny, Dublin 5	1	Documents pending	Owner to submit schedule of works	DCC	Q4 2017	
North Central	Private owner	Edenmore Shopping Centre, Raheny, Dublin 5	1	Documents pending	Owner to submit schedule of works	DCC	Q4 2017	
Central	Private owner	Capel Street, Dublin 1	3	Inspected	Owner to submit schedule of works	DCC	Q4 2017	
Central	Private owner	Russell Street, Dublin 1	1	Inspection completed	Owner to confirm decision	DCC	Q4 2017	
South Central	АНВ	Kylemore Road, Ballyfermot	1	Pending schedule of works/costs	Approve costs	АНВ	Q4 2017	
South Central	Private owner	Benbulbin Road, Drimnagh	1	Documents pending	Owner to submit schedule of works	DCC	Q4 2017	

Committee	Scheme/Property Address	No. of	Cost of	Refurb.	Current	Next Milestone
Area	Scheme/Property Address	Units	Refurb. works	work to be completed by	Status	Next Willestone
South Central	Downpatrick Road, Crumlin, Dublin 12	1	To be confirmed	DCC	Tenanted.	Complete
North Central	Elm Mount Drive, Beaumont, Dublin 9	1	To be confirmed	DCC	Tenanted.	Complete
Central	Nelson Street, Dublin 7	1	To be confirmed	DCC	Design stage.	Refurbishment
North West	Oakwood Avenue, Dublin 11	1	To be confirmed	DCC	Title Acquired	Legal
South Central	Reuben Avenue, Dublin 8	1	To be confirmed	DCC	Design stage.	Refurbishment. Tender to be issued for refurbishment.
South Central	St. Anthonys Road, Rialto, Dublin 8	1	To be confirmed	DCC	Design stage.	Refurbishment. Tender to be issued for refurbishment.
South Central	Cashel Avenue, Crumlin, Dublin 12	1	To be confirmed		Tenanted.	Complete
Central	Lower Rutland St, Dublin 1	1	To be confirmed	DCC	Structural inspection	Design option to be considered
Central	Kingsland, Dublin 7	1	To be confirmed	DCC	Structural inspection	Design option to be considered
North West	Barry Avenue, Dublin 11	1	To be confirmed	DCC	Design stage.	Design option to be considered
South East	Creighton Street, Dublin 2	1	To be confirmed	DCC	Design stage.	Design option to be considered