## Supporting Technical Information

## How to use

This document outlines the information and technical studies that may be required to support a planning proposal. As each planning proposal is different, the information and technical reports outlined will vary depending on the nature, scale and complexity of the proposal and characteristics of the land to which the planning proposal relates.

The information and supporting technical studies that will be required to support the planning proposal will be confirmed at the prelodgement stage with input from authorities and government agencies (as relevant) and detailed in the planning proposal requirements issued by council or the Department.

A planning proposal is not a development application (DA) and therefore the technical information, and level of detail, outlined in the planning proposal should be proportionate to the category and scale of the planning proposal. The technical information should lead to the conclusion that the planning proposal can be completed within a reasonable timeframe, identified impacts can be addressed and the site is suitable for the proposal.

The information required to support councilinitiated principal planning proposals such as a comprehensive and/or housekeeping LEP amendments may require different information, including more strategic studies such as housing, employment, recreation or open space. For these types of proposals, council should consult with the Department at the pre-lodgement stage, before referral of the planning proposal to the Department for a Gateway determination.

The below table indicates where a particular study or certain information 'may' or 'is likely to be required' based on the type of planning proposal and its category. For more guidance see the Planning proposal categories section of this guideline.

This is a guide only and users will need to decide whether a particular study or assessment is required depending on the nature, scale and complexity of the proposal and characteristics of the land to which the planning proposal relates.

	Basic	Standard	Complex
Urban Design	'	'	
An Urban design study may be required for both greenfield and region or in greater Sydney in order to ensure the proposals is a and begin to justify strategic merit within the landscape.	, , ,		
<ul> <li>Urban design study with a concept plan that demonstrates capability of the site to accommodate the vision, objectives outcomes of the proposal. The concept plan may include:</li> </ul>	l l	May be required	Likely to be required
o Vision statement			
o Opportunities and constraints analysis			
o Proposed urban structure / site layout			
o Demonstrate connection to Country			
o Proposed land uses and distribution			
<ul> <li>Existing and proposed transport network - indicate streets hierarchy and linkages or streets where publi stations could be provided (indicative)</li> </ul>	,		
<ul> <li>Existing and proposed pedestrian and cycle network linkages to surrounding site/facilities (indicative)</li> </ul>	k including		
<ul> <li>Proposed open space planning and design principle envisaged network and high-level landscape concep (indicative)</li> </ul>			
o Indicative yield (range) and staging (indicative)			
o Distribution of building heights and/or floor space o	ontrols (if		

Technical	Information			
		Basic	Standard	Complex
Urban se	tting /urban renewal sites/ infill site	Not	May be	Likely to be
capab	design study with a concept plan that demonstrates the illity of the site to accommodate the vision, objectives or intended mes of the proposal. The concept plan may include:	required	required	required
0	Vision statement			
0	Opportunities and constraints analysis			
0	Proposed urban structure / site layout			
0	Demonstrate connection to Country			
0	Proposed land uses and distribution			
0	Existing and proposed transport network and connectivity - indicate road / streets hierarchy and linkages or streets where public transport/stations could be provided (indicative)			
0	proposed connectivity with the site and to adjoining points of interest/surrounding context			
0	Existing and proposed pedestrian and cycle network including linkages to surrounding site/facilities (indicative)			
0	Proposed open space planning and design principles, envisaged network and high-level landscape concept / strategy (indicative)			
0	Proposed development footprint (net developable area), indicative yield (range) and staging (indicative)			
0	Distribution of building heights and/or floor space controls (if relevant)			
• Devel	opment / building envelopes including (as relevant):			
0	Envelope massing and envelope comparisons (current vs proposed controls)			
0	Shadow analysis (winter solstice)			
0				
0	Distribution of building heights and/or floor space controls (if relevant)			
works inc	ormation relating to the detailed design of buildings / other luding materials and finishes and architectural drawings including and detailed elevations are not required at the planning proposal			

		Basic	Standard	Complex
Ecologica	ally Sustainable Development (ESD)			
industrial,	crategy may be required for large proposed developments, whether to ensure that the proposal achieves sustainability principles and ca ad direction.			
• A sust	ainability strategy that address the following (as relevant):	Not	May be	May be
0	how the proposal incorporates ESD principles in the design or concept plan including the potential for water sensitive urban design strategies/measures, approach to water re-use, approach to reducing the urban heat island effect, energy efficiency principles and strategy, principles of net zero emission, energy minimisation / generation, approach to social inclusion, principles and approach to circular economy and the like	required	required	required
Flood and	d Risk Assessment (FIRA)			
flooding, a	npact and risk assessment may be required when the land to which affects the flow of water, is identified in flood prone land or flood lia impact and risk assessment (FIRA) for a complex planning sal that addresses the following:			
	Consideration of the relevant council's LEP, DCP and the NSW Government's Flood Prone Land Policy as set out in the Floodplain Development Manual 2005	required	required	required
0	Consideration of existing council flood studies and floodplain risk management studies and plans relevant to the development site			
0	Provision of a FIRA report which describes the following (subject to council requirements):			
Existing c	<u>onditions</u>			
0	Develop hydrologic and hydraulic models that include calibration against existing information including local flood records, downstream and upstream conditions, and floodplain characteristics			
0	Provide a description for existing conditions of flood behaviour and flood constraints on the site and its surrounding areas for the full range of events, including 5% AEP, 1% AEP, PMF and 0.5% AEP or 0.2% AEP and provide an assessment of the compatibility of the development and its users with flood behaviour			

	Basic	Standard	Complex
	Dasic	Standard	Complex
Post developed conditions	Not	May be	Likely to be
o Describe the changes in post development flood behaviour1, impacts2 of flooding on existing community and on the development and its future community for full range of events, 5% AEP, 1% AEP, PMF and 0.5% AEP or 0.2%AEP	required	required	required
<ul> <li>Consider impacts of climate change due to sea level rise and increase in rainfall intensities where applicable</li> </ul>			
o Propose and assess the effectiveness of management measures required to minimise the impacts of flooding to the development and to minimise risks on existing and future community. This many include the update of hydrological and hydraulic models to analyse post development conditions			
o Describes the proposed emergency management strategy and any associated modelling			
<ul> <li>For critical land uses consider the risk to development and users of the development and identify management measures to allow the development to fulfil its intended function for the full range of flooding</li> </ul>	5		
o Estimation of flood planning levels and the flood planning area			
Note:  1. Flood behaviour includes flood volume, extent, depth, level, velocity, duration, rate of rise, flood function and hazard  2. Impacts include flood behaviour and emergency response management of the site and surrounding areas  3. Discussions with the consent or relevant referral authority based on existing flood information or specific council requirements may alter this scope  4. Refer also to requirements set out in Direction 4.3 - Flooding issued under section 9.1 of the EP&A Act			
Water Cycle and Stormwater Management			
A water cycle and stormwater management strategy is more likely required or sites located alongside riparian corridors. The planning proposal needs to can be managed with the proposed development.	~		
Water cycle and stormwater management strategy that considers water quantity and water quality issues:	Not required	May be required	Likely to be required
o water cycle management options on the site			

 o proposed water cycle management strategy, including stormwater and water sensitive urban design (WSUD)
 o Riparian assessment to define the top of bank and associated

o Preliminary cost estimates (riparian corridors, stormwater or

riparian zones (if site includes waterfront land)

o Water quality analysiso Concept designs

water quality basins)

		Basic	Standard	Complex
Bushfire	Risk Assessment			
	e assessment report is often required when a planning proposal site or as defined in legislation.	is impacted or lil	kely to be impac	ted by
• Bushf	ire constraints assessment, including:	Not	May be	Likely to be
0	Identification of Bush fire prone land on the site (including overlay of bushfire prone land map on the site and/or concept plan)	required	required	required
0	Extent of any Asset Protections Zone affection on the site or that proposed for the proposal (including an overlay on concept plan)			
0	Requirements of Part 4 of NSW Rural Fire Service, <i>Planning for Bushfire Protection</i> (November 2019) including consideration of the following:			
	<ul> <li>Access and egress for fire-fighting operations and emergency evacuation</li> <li>Water supply for fire-fighting operations</li> </ul>			
should be council ar	proposed scope and methodology for a bushfire assessment confirmed at the pre-lodgement stage, in consultation with the Rural Fire Service NSW. Refer also to requirements set out on 4.4 - Planning for Bushfire Protection issued under section 9.1 &A Act			

## **Traffic and Transport Strategy**

A traffic, mobility and transport strategy may be required for a greenfield site or infill site in regional areas or greater Sydney when the proposal result in a sizeable increase in travel demand, where there is an impact on traffic movement, and to ensure good movement, connection and links to the surrounding context.

to ensure	good movement, connection and links to the surrounding context			
• Transp	ort and movement assessment, that addresses the following:	Not	May be	Likely to be
0	Approach, methodology and assumptions	required	required	required
0	Anticipated traffic and transport implications of the proposal (existing conditions and future planned development)			
0	Details of transport infrastructure improvements (not engineering designs) required to accommodate the proposal, proposed funding and delivery arrangements (if relevant)			
0	Consideration of the following (if relevant):			
	- Suitability of the site access arrangements in terms of location and layout			
	- Staging of the development			
	- Hierarchy of streets			
	- Public transport access requirements			
	- Traffic generating aspects of the proposal			
	- Trip containment			
	<ul> <li>The likely future developments in the surrounding area that would impact the transport assessment</li> </ul>			
	- Active transport - walking and cycling network			
	<ul> <li>The likely future transport infrastructure that would be generated by the development and link to the surrounding area</li> </ul>			
	<ul> <li>Traffic, transport and access impacts of the planning proposal on the surrounding transport network</li> </ul>			
	- Approach to parking			
movemen rates, pub should be	proposed scope and methodology for the transport and assessment and proposed assumptions (i.e. traffic generation ic transport mode shifts, trip containment, directional split etc) confirmed at the pre-lodgement stage, in consultation with d Transport for NSW.			

		Basic	Standard	Complex
Heritage				
	an heritage assessment and impact study may be needed when a plan, or impact a heritage conservation area, or as defined in heritage le	~	may impact on	a local or
	ginal heritage archaeological and landscape assessment may be req stential to be, impacts on areas, objects, places or landscapes of heri e.	~		
Non-Indi	genous Heritage	May be	May be	Likely to be
• Prelim	ninary Heritage impact statement, which:	required	required	required
0	identifies all local, State, National or World listed heritage items, archaeological sites and/or conservation areas on or within the vicinity of the site (including ground truthing items)			
0	provides a high-level assessment of the potential impacts of the proposal including concept plan, building envelope or use in respect of a heritage item or conservation area on or within the vicinity of the site			
0	provides a justification if new items are proposed to be listed			
required f	reliminary Heritage impact statement generally would not be for a basic proposal unless it impacts a local heritage item. A nterpretation strategy is not required at the planning proposal			
Aborigin	al Cultural Heritage	Not	May be	Likely to be
• Abori	ginal Heritage Archaeological Assessment including:	required	required	required
0	Identification of potential areas, objects, places or landscapes of heritage significance to Aboriginal culture and people that may potentially constrain future land-use planning			
0	Background research and an archaeological field survey			
0	preliminary consultation with the relevant Local Aboriginal Land Council			
0	assessment of the archaeological potential of the study area			
0	impact assessment (based on indicative concept plan)			
• The as	ssessment should be undertaken in accordance with the following:			
0	Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales (OEH 2010)			
		1	I	I

o Aboriginal Cultural Heritage Consultation Requirements for

o Code of Practice for Archaeological Investigation of Aboriginal

Proponents 2010 (DECCW 2010)

Objects in NSW (DECCW 2010)

		Basic	Standard	Complex
Biodiver	sity			
	ersity assessment report is more likely required in greenfield or urbar iodiversity and biodiversity values.	n / rural edge pla	nning proposals	, where it may
• Biodiv	versity assessment, that addresses the following (as relevant):	Not	May be	Likely to be required
0	maps and describe the ecological features and biodiversity value of the site (including ground truthing if relying on existing mapping) including threatened ecological communities, threatened species and their habitat including linkages to corridors beyond the site	required	required	
0	discuss the implications of occurrences of native flora and fauna for future development of the site			
0	demonstrate how the proposal has taken appropriate and sufficient steps, as a first step, to avoid or minimise impacts to native vegetation (if relevant)			
0	make recommended mitigation of the ecological impacts of rezoning (if relevant)			
0	make recommendations for biodiversity offsets to address any loss of native vegetation (if relevant)			
0	proposed ownership and management arrangements for residual land such as environmental land, open space and riparian corridors			
	regetation management plan or conservation management plan is red at planning proposal stage.			
should be	osed scope and methodology for the biodiversity assessment econfirmed at the pre-lodgement stage, in consultation with NSW Environment, Energy and Science.			
Contami	nation and Acid Sulphate Soils	1	'	
in its curr This repo	nination and acid sulphate soil assessment may be required to provident state, or if contaminated that it can be appropriately remediated rt may be required particularly when the site has been used, or contacted agricultural lands.	d and made suita	ble for the prop	osed land use.
• Prelim	ninary site investigation and report that:	Not required	May be	Likely to be
0	assesses the potential for widespread contamination and/or acid sulphate soils on the site based on current and historical site activities	required	required	required
0	considers the suitability of the site for the purpose and/or land use for which the planning proposal envisages will be carried out in the future, based on the potential contamination of the site and extent of acid sulphate soils, and whether the land is suitable in its contaminated state (or will be suitable, after remediation) for the purpose for which the development is proposed to be carried out)			
report on planning	council may require the proponent to carry out, and provide a square a detailed investigation (as referred to in the contaminated land guidelines) if it considers that the findings of the preliminary tion warrant such an investigation.			

		Basic	Standard	Complex
ocial an	d Community			
esidents A plannir	and community assessment report may be required for planning pro students or employees who need to be connected to social and co g proposal that relates to residential development should consider and future needs of the community.	mmunity facilitie	s, programs, and	l open space.
Socia follow	l and community needs assessment, which addresses the ring:	Not required	May be required	Likely to b
0	Demographic context			
0	Existing social infrastructure (i.e. local facilities including shopping and neighbourhood services, schools, childcare, community facilities, open space and recreation facilities), district and regional facilities need for the proposal (if proposal is responding to a particular need including additional housing, employment, education etc)			
0	housing and population projections (to support the assessment particular if housing is proposed)			
0	demand for social and community facilities			
0	funding approach and delivery arrangements for local, district and regional facilities			
0	requirements for open space and recreation facilities (if relevant) including likely needs, quantum of open space, dualuse of open space, delivery and funding arrangements			
0	housing diversity and affordability (if residential is proposed and/or the proposal results in the displacement of existing residents and businesses)			
lassify o	open space study may be required for proposals that seek to r reclassify public land and/or also proposes to rezone land which n space or biodiversity impacts			
Jtilities :	and Infrastructure			
	ture servicing strategy are critical to link in with any planning propode or is supported by adequate infrastructure and utilities in a feasily		ate that the planr	ning proposa
capac	and infrastructure servicing strategy that addresses the current city and future needs of the proposal and strategy, timing and I feasibility for delivery of the following (as relevant):	Not required	Likely to be required	Likely to k required
0	potable water			
0	sewerage			
0	stormwater			
0	gas			
0	electricity			
0	telephone and internet / NBN services	1		

	Basic	Standard	Complex
Economic and Retail Analysis			
An economic and retail analysis may be required when assessing employmer lands, creation of jobs, and town centres.	nt land demand,	conversion of er	mployment
Economic and retail analysis that:	Not	May be	Likely to b
o examines existing population and employment trends/needs for the area	required	required	required
o considers future population, employment and/or other growth potential for the site			
o assesses employment land demand (lot sizes, floor space ratio, take up rates and employment densities)			
o examines the proposal's future role and function, trade areas, size and floor space mix, location and scope for additional supporting land uses			
o identifies and quantifies economic impacts including jobs by sector, multiplier effects associated with the proposal for local, metropolitan, state and national economies (as relevant)			
Noise			•
Acoustic reports would only be required in exceptional circumstances, where sensitive uses such as schools, seniors housing and the land to which the plainoise sources.		~	
High level acoustic report that:	Not required	May be required	May be required
<ul> <li>identifies the existing noise sources, particularly if the proposed use is to be a more sensitive</li> </ul>	. oquilou		
o considers at a high-level the suitability of the site for the purpose and/or land use from an acoustic perspective			
Note: Refer also to requirements in relation to noise set out in Direction 3.5 – Development Near Regulated Airports and Defence Airfields (if relevant) issued under section 9.1 of the EP&A Act			
Agricultural Land Assessment			
An agricultural assessment is likely only to be required where a proposal seekidentified as significant agricultural land to an urban zone.	ks to rezone rura	al land currently	used or
Agricultural assessment capability report that:	Not	May be	May be
<ul> <li>addresses the impact of the development on the primary production values of the land to which the planning proposal relates (if the land is currently used for cropping or other intensive horticultural purposes) and practices and of adjoining agricultural land and whether any impacts on regional significant areas of food production may result</li> <li>Addresses the agricultural suitability of the site</li> </ul>	required	required	required
Note: Information on the agricultural capability of land can be found here: Social Pinpoint   SSAL (mysocialpinpoint.com)			
Land and Soil capability class mapping can be found here: <u>Geocortex Viewer for HTML5 (nsw.gov.au)</u>			
The North Coast mapping can be found here:			

	Basic	Standard	Complex
Geotechnical and Mining Resource and Subsidence			
Geotechnical report may be required for planning proposals in infill sites to d greenfield areas where soils are unstable or in mining and subsidence areas. The land to which the planning proposal relates is, or can be made suitable, for	The preliminary re	eport should cor	
<ul> <li>Preliminary geotechnical assessment report, particularly where soils are unstable or where depth of soils / rock may impact on trenched utility infrastructure or planting regimes</li> <li>Geotechnical investigation and/or desktop assessment only required to support planning proposals which will deliver large infrastructure projects or proposals in active mining areas.</li> <li>Geotechnical studies and subsidence risks in areas of historical mining, mine leases or any other areas where land may be subject to subsidence</li> </ul>	Not required	May be required	May be required
Infrastructure Funding			
A new or amended contributions plan or draft planning agreement may be n the increased demand for public amenities and public services.	eeded when a pla	anning proposal	may result ir
<ul> <li>Provide details on the principles, scope of infrastructure, nexus and cost to cater for development to support an amendment to an existing contribution plan or new contribution plan</li> <li>In cases where works are to be proposed, public benefits provided or proposed planning agreement is agreed by all parties, a letter of offer can be provided</li> </ul>	Not required	Not required	Likely to be required
Note: A Draft Contributions Plan is to be prepared in sufficient time to enable the plan to be exhibited at the same time as the planning proposal, or as soon as possible after the planning proposal is placed on exhibition, if the Minister determines that the planning proposal should proceed.			
High level costing of infrastructure will be required to inform a contributions plan/schedule			