

29<sup>th</sup> January 2018**Goodman Property Services (Aust.) Pty Ltd**Level 17  
60 Castlereagh Street  
Sydney NSW 2000**Your Ref:****Our Ref:** L001-02-17-478**Direct phone:** 02 9439 1777

Attention Stephanie Partridge

**VIA EMAIL:** Stephanie Partridge (Stephanie.Partridge@goodman.com)

Dear Stephanie,

**RE: ENFIELD INTERMODAL LOGISTICS CENTRE – BULK EARTHWORK DESIGN STATEMENT**

The concept drawings prepared by AT&L primarily include preliminary building FFL and earthworks cut/fill volumes. A pavement depth of 300mm for building, hardstand and carpark areas is adopted throughout the precincts.

The intention is to achieve a cut and fill balance, where imported material is a preferred option over the export of any potentially contaminated materials off-site. Any imported material will be placed and compacted as fill upon arrival onsite therefore no permanent stockpiles will remain onsite. Furthermore the proposed earthworks and pad levels will not impact the established bio-retention basins approved and construction under MP05\_01467.

A summary of earthwork cut/fill volumes and assumptions made for each precinct:

	CUT (m <sup>3</sup> )	ADDITIONAL CUT (m <sup>3</sup> )	FILL (m <sup>3</sup> )	BALANCE (m <sup>3</sup> )
Precinct A	17,100	19,630	82,200	31,770 (IMPORT)
Precinct B	13,700		0	
Precinct C	1,950	4,525	16,300	7,325 (IMPORT)
Precinct D	5,900		3,400	
Precinct E	4,500	7,200	21,000	9,300 (IMPORT)
Precinct F	3,330	1,050	5,750	1,370 (IMPORT)
Precinct H	6,600	4,140	13,400	2,660 (IMPORT)
<b>Total</b>	<b>53,080</b>	<b>36,545</b>	<b>142,050</b>	<b>52,425 (IMPORT)</b>

Additional cut volume were calculated using assumed volumes associated with the construction of reinforced earth retaining walls, stormwater drainage trenching and recessed docks. The above mentioned cut/fill volumes may change plus or minus 20% dependant on the final building pad levels. The 52,425m<sup>3</sup> imported fill will raise the overall site by approximately 200mm.

The fill material will be used to create a level warehouse pad and to ensure the least amount of potentially contaminated materials is disturbed. The existing drainage structures will not be disturbed, connection into the existing drainage system will be through existing stubs provided and constructed under MP05\_01467.

A Fill Importation Protocol (FIP) report should be prepared prior to bulk earthworks. The FIP should outline the requirements of the imported fill which includes the source and type. All bulk earthworks should be undertaken in accordance with the approved FIP. The FIP should form a part of the Construction Environmental Management Plan (CEMP) to be prepared and approved prior to commencement of construction. The FIP should include a construction methodology statement for how the site will be raised.

Should you have any questions, please don't hesitate to contact the undersigned.

Yours sincerely,



**Frank Xie**  
Civil Engineer  
0405 323 802