

Date 02.08.2021 Ref 0166/HWA/A Page 1 of 3

Sent to: tjh@poppyfieldsnorfolk.co.uk

Gable Developments Ltd

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<u>Land east of Stocks Hill, Bawburgh</u>
<u>South Norfolk Village Clusters Submission</u>
<u>Preliminary Highways Assessment</u>

INTRODUCTION

Schema has been instructed by Poppyfields Norfolk Ltd, on behalf of Gable Developments Ltd, to provide a preliminary assessment of the highway's issues relating to the proposed development of the above site.

9 Stevenson Road

Norwich NR12 8FE

ENGINEERING ASSESSMENT

Existing Highway Network

The proposed development is located to the east of Stocks Hill, Bawburgh. Stocks Hill is an NCC Highways maintained asset and varies in width around the site frontage from approx. 5.10m to 5.60m. There is an existing footpath on either side of Stocks Hill around the site frontage which vary in width from approx. 1.70m to 2.00m wide.

This footpath enables access to the village to the north which is approximately 250m away however there is no formal footpath over the bridge across the River Yare.

A junction to the Bawburgh Village Hall is located on the opposite side of Stocks Hill along the site frontage. The village hill is therefore a short walk away from the site and can be access via the new footpaths installed around the junction belimouth as part of the new housing development currently being constructed to the south of the village hall.

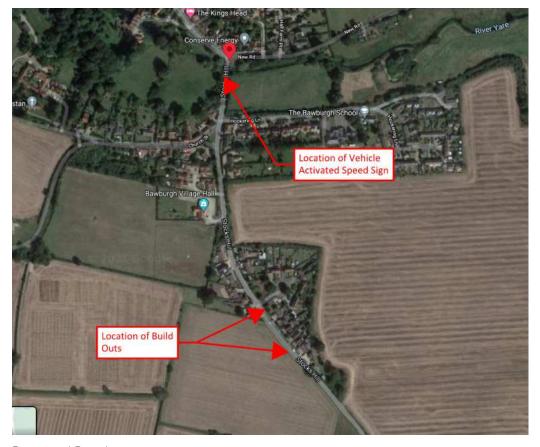
The Existing visibility splays from various locations along the site frontage onto Stocks Hill does meet the required standard and is at least 43 to 59m ion both directions.

There are existing local traffic calming features as shown on the image below i.e. build outs to the south and a vehicle activated speed sign to the north.

The Bawburgh School is situated to the northeast of the development and is approximately 380m from the site using the existing footpath network.

The posted speed limit along Bawburgh Road varies from 20 to 30mph along the site frontage.

Norwich NR12 8FE



Proposed Development

The developer proposes to construct new dwellings on the land to the east of Stocks Hill.

Proposed Solution

The final number of dwellings within the site is unknown however a Type 3 road design to NCC Highways adoptable standards can accommodate up to 250 dwellings with a 5.50m wide carriageway.

Please refer to the proposed Highway layout drawing attached:

- To achieve a suitable access the proposed estate site road entrance to the site
 off Stocks Hill has been located 20m north of the existing access from Stocks Hill
 into the Community Centre. This enables a suitable visibility splay in either
 direction to be achieved.
- The estate road is currently shown at 4.80m wide accommodating up to 50 dwellings however this can be upgraded to a 5.50m wide road if required.
- The footpath on the development side of Stocks Hill has been shown to be widened to 2.00m along the site frontage.
- Two trees will be required to be removed because of the proposed access location.
- The area benefits from existing speed reduction measures which will be maintained and further enhanced by the proposed development creating a more urbanised feel along Stocks Hill.



Further Work

Should it be required, further work could include speed surveys, NCC highway boundary search, tree surveys, highways safety audits etc

Attachments

- Existing Highway Drawing
- Proposed Highway Drawing
- Site plans
- Site photos
- Topographical survey

This report has been prepared by:

Phil Pritchard Director

MEng (Hons) CEng MICE CPEng MIEAust

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1. This drawing is to be read in conjunction with all relevant structural engineer's drawings and details, the specification for the works, the relevant architect's drawings and any

2. Any discrepancies found on this or any other drawings are to be reported to and resolved by Schema Engineering Ltd before the commencement of any work relevant to the

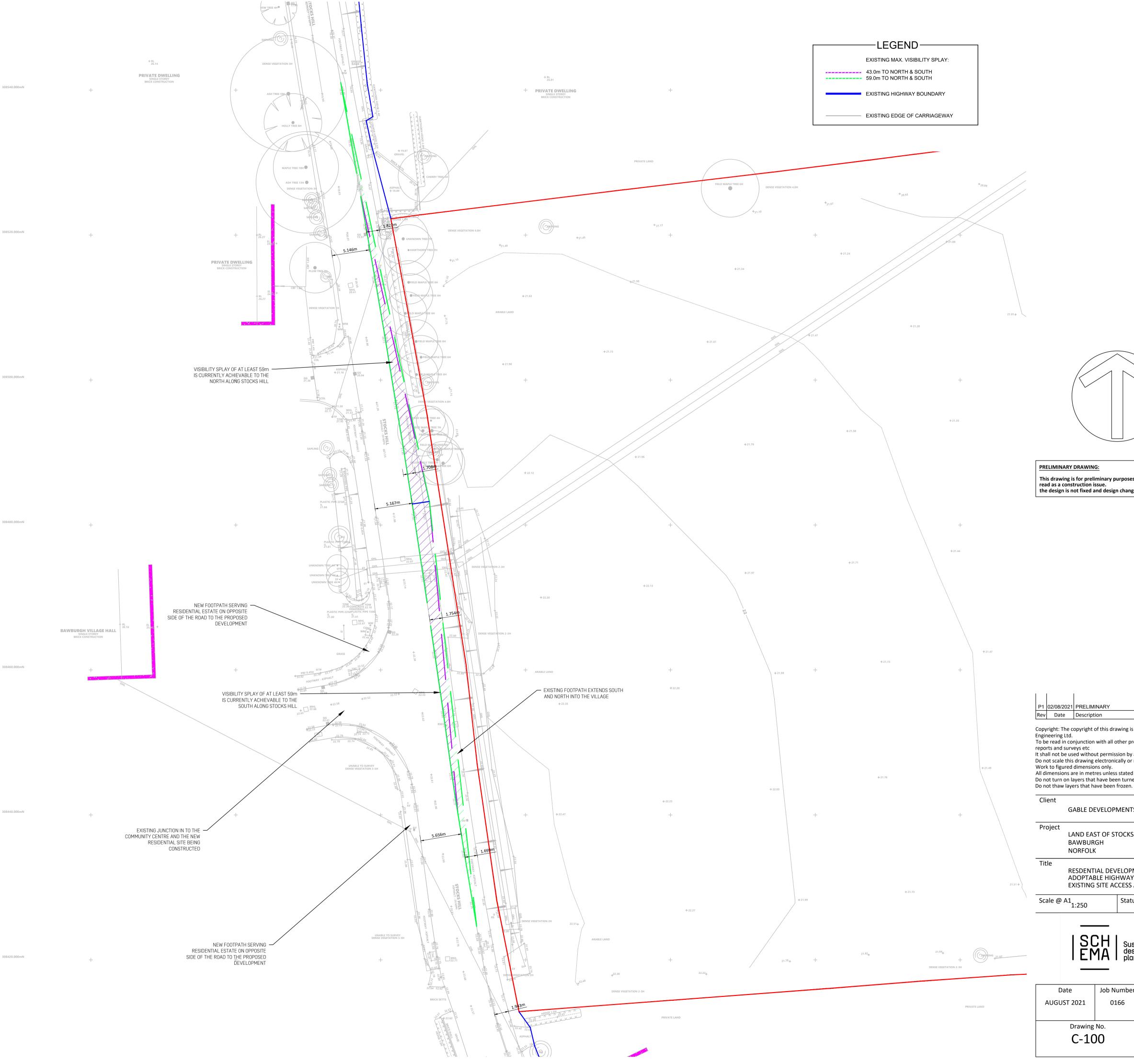
- 3. The principal contractor is to provide fully designed propping/shoring to facilitate the works. All propping & bracing is to be adequately founded to ensure the stability/integrity of the existing/proposed structures &/or earthworks is maintained. Unless indicated on the drawings, the temporary works are not to impose reactions on the permanent structure without prior written consent from Schema Engineering Ltd.
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- 5. This drawing is based on a topographical survey and planning drawings provided by the
- 6. Dimensions are stated in meters unless shown otherwise. Chainages are stated in metres. Levels are in metres and related to ordnance datum.
- 7. The contractor is to verify the accuracy of information provided by others.
- 8. Existing public utility services and private apparatus are not necessarily all shown on this drawing. The contractor shall liaise with the appropriate utility provider to determine precisely where on site existing services are located. Services shall be located and marked out on site prior to any excavation work being commenced.
- 9. All existing services, sewers and drains indicated on this and any other related drawings are shown only indicatively, and shall have their position and level confirmed on site by the contractor.
- 10. The surface course on the access road shall be deferred until building work for the whole development is complete. Gully frames and grates and other ironwork shall be temporarily set flush with the base course and raised at the time the surface course is
- 11. All works within the existing highway shall be carried out fully in accordance with the new works and street works act 1991 and to chapter 8 of the traffic signs manual. The contractor shall provide, erect, maintain and remove upon completion all temporary signing required for works carried out within the highway. The contractor shall liaise with the highways inspector of Norfolk County Council with regard to agreeing appropriate methods of traffic management.
- 12. The reinstatement of the highway shall be carried out fully in accordance with the HAUC 'specification for the reinstatement of openings in highways'. Reinstatement shall be permanent (on first visit). trench backfill material shall be type 1 granular sub-base.
- 13. The contractor shall submit to the street works coordinator and utility companies the appropriate 'n' notices. Upon completion of the works the contractor shall submit to the street works coordinator the appropriate 'r' notice.
- 14. All proprietary materials shall be installed in accordance with the manufacturer's instructions and recommendations.
- 15. No trees, hedges or shrubs shall be taken up or otherwise damaged unless noted to the contrary on the drawings, or express permission is first obtained from the employer.
- 16. For precise positions and details of domestic paths, sheds, bin stores, washing lines etc please refer to the architects drawings.
- 17. For details of landscaping and planting please refer to the landscaping drawing prepared
- 18. The main contractor is responsible for achieving and maintaining the stability of earthworks and any existing structures on the site and adjoining sites, taking all necessary precautions to safeguard this stability. Adequate shoring is to be inserted during the works to ensure stability and such shoring is to be adequately founded and braced.
- 19. As underlying ground conditions may be variable across the site the contractor shall undertake onsite porosity tests at the location and depth of each soakaway. Tests should be undertaken in accordance with BRE365 and results forwarded to the engineers to allow verification of designs.
- 20. Prior to commencing any drainage works the contractor shall check and confirm back to Schema Engineering Ltd the existing invert level of all outfalls and/or connections to existing sewers. Any work carried out without doing this is entirely at the contractor's own
- 21. All adoptable drainage to be installed/constructed to 'Sewers for Adoption 6th Edition' standards and in accordance with Anglian Water's additions and deletions document.
- 22. Connections to the existing sewers shall be subject to the approval of Anglian Water and shall be carried out by a contractor approved by Anglian Water. The contractor shall comply with the requirements of Anglian Water with regards to submitting method statements, risk assessments etc for obtaining a 'permit to work' on the existing sewer.
- 23. Where drainage is to be adopted, manhole covers are to be permanently and visibly badged with the AW logo and the lettering 'SW' for surface water and 'FW' for foul water.
- 24. Where possible orientation of manhole access covers to be orthogonal with adjacent kerb
- 25. Manhole covers to be set flush with binder course on new road construction and raised to final levels when surface course is laid at later date.
- 26. Sulphate resisting cement and concrete products to be used for foul sewerage. 27. All pipes entering or leaving manholes shall be laid with their soffits level, unless shown or

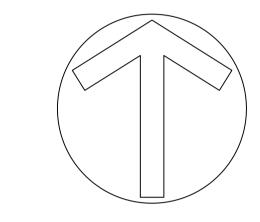
to making inspections at the appropriate stages of the work.

- agreed otherwise. 28. Gully connections to be 150mm dia at a gradient no flatter than 1 in 150 unless stated
- otherwise. 29. The private foul and storm water drainage shall be subject to inspections by the local building control officer. The contractor shall liaise with the building inspector with regard
- 30. All private foul and storm water sewers shall be 100/110mm dia clayware or PVC unless stated otherwise. Storm sewers shall be laid at a gradient no flatter than 1 in 100, and foul sewers to a gradient no flatter than 1 in 80 unless stated otherwise on the drawings.
- 31. All shallow inspection chambers to be a depth of 600mm from cover to invert unless stated otherwise.
- 32. All connections to adoptable sewers to be made in vitrified clay only. PROTECTION TO ADOPTABLE SEWERS:-
- 33. Type S bedding to be used in non-trafficked areas.
- 34. Type S bedding to be used in trafficked areas where the cover to the crown of the sewer is greater than or equal to 1200mm.
- 35. Concrete Slab Protection to be provided in trafficked areas where the cover to the crown of the sewer is less than 1200mm.

PROTECTION TO PRIVATE SEWERS:

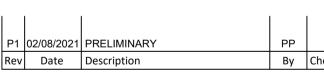
- 36. Type S bedding to be used in non-trafficked areas.
- 37. Type S bedding to be used in trafficked areas where the cover to the crown of the sewer is greater than or equal to 900mm.
- 38. Type Z bedding to be used in trafficked areas where the cover to the crown of the sewer is less than 900mm.
- Schema Engineering Ltd 2021.





PRELIMINARY DRAWING:

This drawing is for preliminary purposes only and must not be read as a construction issue. the design is not fixed and design changes are likely



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Client

GABLE DEVELOPMENTS LTD

LAND EAST OF STOCKS HILL, BAWBURGH

NORFOLK Title

RESDENTIAL DEVELOPMENT ADOPTABLE HIGHWAY **EXISTING SITE ACCESS ASSESSMENT**

Scale @ A1 1:250 Status PRELIMINARY



Job Number By Checked By 0166 PP PP AUGUST 2021 Drawing No. Revision C-100

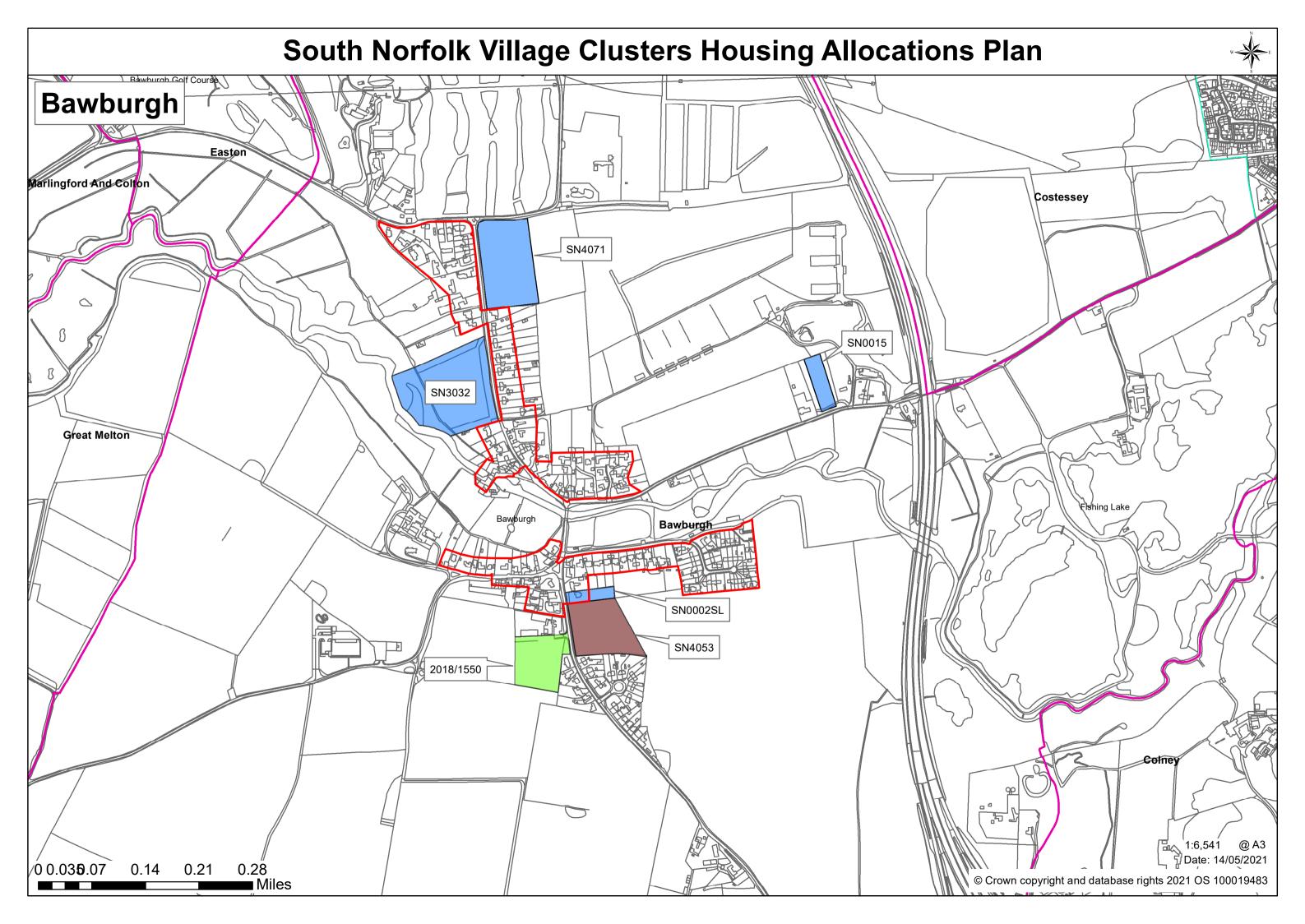
1. This drawing is to be read in conjunction with all relevant structural engineer's drawings and details, the specification for the works, the relevant architect's drawings and any -LEGEND-PROPOSED MAX. VISIBILITY SPLAY: 2. Any discrepancies found on this or any other drawings are to be reported to and resolved by Schema Engineering Ltd before the commencement of any work relevant to the 43.0m TO NORTH & SOUTH 59.0m TO NORTH & SOUTH 3. The principal contractor is to provide fully designed propping/shoring to facilitate the works. All propping & bracing is to be adequately founded to ensure the stability/integrity EXISTING HIGHWAY BOUNDARY of the existing/proposed structures &/or earthworks is maintained. Unless indicated on the drawings, the temporary works are not to impose reactions on the permanent structure without prior written consent from Schema Engineering Ltd. PROPOSED EDGE OF CARRIAGEWAY / **FOOTWAY** 4. This document has been prepared in accordance with the scope of Schema Engineering Ltd appointment with its client and is subject to the terms of that appointment. Schema Engineering Ltd accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided. Only written PROPOSED TYPE 3 ROAD AND / OR ROAD dimensions shall be used. WIDENING AREAS 5. This drawing is based on a topographical survey and planning drawings provided by the TREE TO REMAIN 6. Dimensions are stated in meters unless shown otherwise. Chainages are stated in metres. Levels are in metres and related to ordnance datum. 7. The contractor is to verify the accuracy of information provided by others. 8. Existing public utility services and private apparatus are not necessarily all shown on this TREE TO BE REMOVED drawing. The contractor shall liaise with the appropriate utility provider to determine precisely where on site existing services are located. Services shall be located and marked out on site prior to any excavation work being commenced. PRIVATE DWELLING SINGLE STOREY BRICK CONSTRUCTION 9. All existing services, sewers and drains indicated on this and any other related drawings are shown only indicatively, and shall have their position and level confirmed on site by the contractor. 10. The surface course on the access road shall be deferred until building work for the whole development is complete. Gully frames and grates and other ironwork shall be temporarily set flush with the base course and raised at the time the surface course is 11. All works within the existing highway shall be carried out fully in accordance with the new Widen footpath along site frontage to works and street works act 1991 and to chapter 8 of the traffic signs manual. 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Type S bedding to be used in trafficked areas where the cover to the crown of the sewer is RESDENTIAL DEVELOPMENT greater than or equal to 900mm. ADOPTABLE HIGHWAY PROPOSED SITE ACCESS ASSESSMENT 38. Type Z bedding to be used in trafficked areas where the cover to the crown of the sewer is UNABLE TO SURVEY DENSE VEGETATION 3-5H less than 900mm. Scale @ A1 1:250 | Status | PRELIMINARY Schema Engineering Ltd 2021. Job Number 0166 AUGUST 2021 Drawing No. PRIVATE DWELLINGS C-101

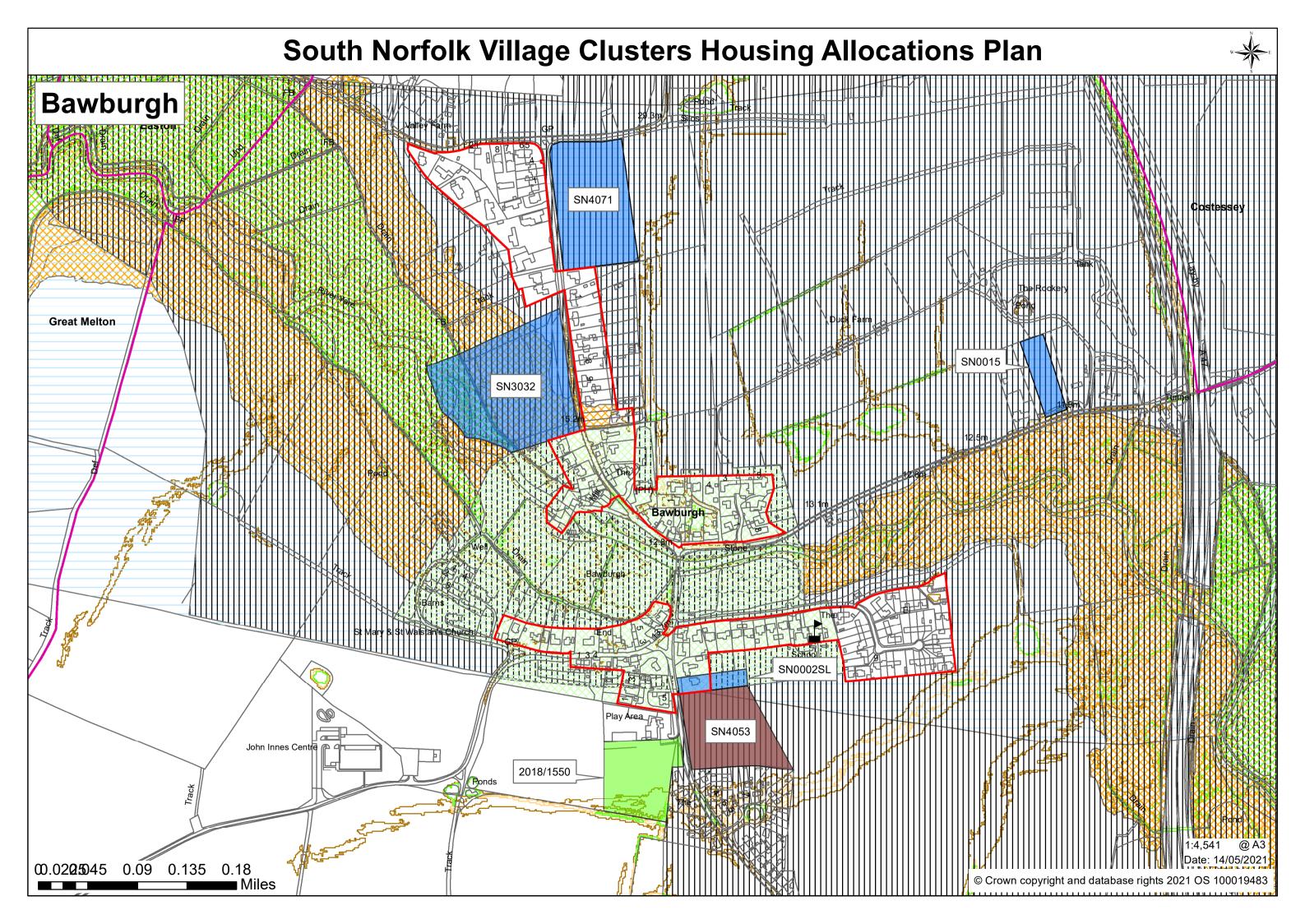
By Checked By

Revision

PP

PP





<u>SN Village Clusters Housing Allocations Document – Site Assessment Form</u>

Part 1 Site Details

Site Reference	SN4053
Site address	Land to the east of Stocks Hill, Bawburgh
Current planning status (including previous planning policy status)	Unallocated
Planning History	No relevant planning history
Site size, hectares (as promoted)	1ha
Promoted Site Use, including (g) Allocated site (h) SL extension	Allocation (The site has been promoted for 25 dwellings, plus a potential additional area of land to the east for public open space)
Promoted Site Density (if known – otherwise assume 25 dwellings/ha)	25 dwellings at 25dph
Greenfield/ Brownfield	Greenfield

Part 2 Absolute Constraints

ABSOLUTE ON-SITE CONSTRAINTS (if 'yes' to any of the below, the site will be excluded from further assessment) Is the site located in, or does the site include:		
SPA, SAC, SSSI, Ramsar	No	
National Nature Reserve	No	
Ancient Woodland	No	
Flood Risk Zone 3b	No	
Scheduled Ancient Monument	No	
Locally Designated Green Space	No	

Part 3 Suitability Assessment

HELAA Score:

The RED/ AMBER/ GREEN score in the HELAA Score column below is based upon the assessment criteria set out in Appendix A of the 'Norfolk Housing and Economic Land Availability Assessment (July 2016)' methodology.

Site Score:

Where a HELAA Assessment has indicated either a RED or AMBER score, has the promoter of the site submitted any supporting evidence to indicate that the issues can be overcome (e.g., a Flood Risk Assessment, Contaminated Land Survey, Ecological Survey)? If yes, and if appropriate, note any changes to the HELAA score in the Site Score column. Additional criteria have been included under 'Accessibility to local services and facilities' and 'Landscape', which need to be reflected in the Site Score.

(Please note boxes filled with grey should not be completed)

SUITABILITY ASSESSMENT			
Constraint	HELAA Score (R/ A/ G)	Comments	Site Score (R/ A/ G)
Access to the site	Green	Access is available from Stocks Hill NCC HIGHWAYS – Green. NCC HIGHWAYS MEETING COMMENTS – Preferred site - next to the school, existing footpath, suitable width carriageway, within the 20mph limit zone.	Green
Accessibility to local services and facilities Part 1: O Primary School O Secondary school Local healthcare services O Retail services O Local employment opportunities O Peak-time public transport	Amber	Primary School located approximately 200m from the site Some local employment opportunities, including Bawburgh golf club. Other services available within neighbouring settlements.	

Part 2:		Public House – The Kings Head	Green
Part 1 facilities, plus oVillage/ community		approximately 370m from the site	GIECH
hall oPublic house/ cafe o Preschool facilities		Village hall and recreation ground located opposite the site on Stocks Hill	
o Formal sports/ recreation facilities			
Utilities Capacity	Green	Wastewater infrastructure capacity to be confirmed AW advise sewers crossing the site	Green
Utilities Infrastructure	Green	No anticipated issues	Green
Better Broadband for Norfolk		Site within the area already served by fibre technology	Green
Identified ORSTED Cable Route		Site is unaffected by the identified ORSTED cable route or substation location	Green
Contamination & ground stability	Green	No known contamination or ground stability issues	Green
		SNC ENV PROTECTION - Land Quality:	
		Having regard to the history of the site along with the size of the site	
		and sensitivity of the proposed development it is recommended	
		that a Phase One Report (Desk Study) should be required as part of any planning application.	
		Amenity:	
		The site in question is close to the Village Hall, Stocks Hill, Bawburgh,	
		Norfolk, NR9 3LL. Consideration should be given to the potential	
		impact of the Village Hall on the amenity future residents along with	
		the impact on the future viability of the Village Hall of introducing noise sensitive receptors close to it.	

Flood Risk	Green	Site is in flood zone 1		Green
		LIEA Groon Fower no		
		constraints. Standard inforn	LLFA – Green. Few or no	
		required. The site is a adjace		
		significant flowpath.	ent to a	
		Significant nowpath.		
Impact	HELAA Score	Comments		Site Score
	(R/ A/ G)		T	(R/ A/ G)
SN Landscape Type		Rural River Valley	Х	
(Land Use Consultants		Tributary Farmland		
2001)		Tributary Farmland with		
		Parkland		
		Settled Plateau Farmland		
		Plateau Farmland		
		Valley Urban Fringe		
		Fringe Farmland		
SN Landscape		A2 – Yare/Tiffey River Valley		
Character Area (Land				
Use Consultants 2001)				
Overall Landscape	Amber	Grade 3 agricultural land		Amber
Assessment				
		The site forms part of the riv	er	
		valley and offers open views	to the	
		west.		
		SNC LANDSCAPE ARCHITECT	– The	
		site would require a landsca	ре	
		assessment as it is an open		
		landscape and visible from t	he	
		SLBPZ. No significant vegeta	tion on	
		the site.		
Townscape	Amber	Development of the site wor	ıld	Amber
		impact on the existing verda	nt	
		characteristics of this part of	Stocks	
		Hill. This impact may be miti	gated	
		through an appropriate design	gn	
		solution		
Biodiversity &	Green	There are no known impacts	upon	Green
Geodiversity		biodiversity or geodiversity		
		NCC ECOLOGY – Green. SSS	I IRZ.	
		Close to Yare Valley CWS. Po	tential	
		for protected species/habita	ts and	
		Biodiversity Net Gain.		

Historic Environment	Amber	Site is located adjacent to the conservation area and may impact views into the conservation area. It is considered that this could be mitigated through appropriate design solutions. HES – Amber	Amber
Open Space	Green	Development of the site would not result in the loss of open space	Green
Transport and Roads	Green	Development of the site is not considered to impact the functioning of the local road network. NCC HIGHWAYS – Green. NCC HIGHWAYS MEETING COMMENTS – Preferred site - next to the school, existing footpath, suitable width carriageway, within the 20mph limit zone.	Green
Neighbouring Land Uses	Green	Agricultural and residential	Green

Part 4 Site Visit

Site Visit Observations	Comments	Site Score (R/ A/ G)
Impact on Historic Environment and townscape?	Site offers open views across the River Valley. The site is adjacent to the Conservation Area.	
Is safe access achievable into the site? Any additional highways observations?	Access from Stocks Hill. A new access would need to be formed.	
Existing land use? (including potential redevelopment/demolition issues)	Agricultural	
What are the neighbouring land uses and are these compatible? (impact of development of the site and on the site)	Agricultural and residential	
What is the topography of the site? (e.g. any significant changes in levels)	Generally flat. The site is in an elevated position at the top of Stocks Hill.	
What are the site boundaries? (e.g. trees, hedgerows, existing development)	Hedgerows to the north and south. Limited screening on the western edge of the site.	
Landscaping and Ecology – are there any significant trees/ hedgerows/ ditches/ ponds etc on or adjacent to the site?	Hedgerows at site boundaries	
Utilities and Contaminated Land— is there any evidence of existing infrastructure or contamination on / adjacent to the site? (e.g., pipelines, telegraph poles)	Electricity lines run along the front of the site and cross the site to the north	
Description of the views (a) into the site and (b) out of the site and including impact on the landscape	There are open views across the site looking over the River Valley	
Initial site visit conclusion (NB: this is an initial observation only for informing the overall assessment of a site and does not determine that a site is suitable for development)	Development of the site will impact upon the landscape character of the area. The site is in a prominent position and offers open views across the river valley towards Norwich	Amber

Part 5 Local Plan Designations

Local Plan Designations, including those in Neighbourhood Plans, should be noted in the table below (excluding Open Countryside which will apply to all sites promoted outside the Development Limits).

Local Plan Designations (UNIFORM)	Comments	Site Score (R/ A/ G)
Norwich Southern Bypass Land		
Protection Zone		
River Valley		
Conclusion	Potential landscape constraints	Amber

Part 6 Availability and Achievability

AVAILABILITY ASSESSMENT (in liaison with landowners)			
	Comments		Site Score (R/ A/ G)
Is the site in private/ public ownership?	Private		
Is the site currently being marketed? (Additional information to be included as appropriate)	Site is owned by a developer/promoter		
When might the site be available for development? (Tick as appropriate)	Immediately	х	Green
	Within 5 years		
	5 – 10 years		
	10 – 15 years		
	15-20 years		
	Comments:	1	Green

ACHIEVABILITY (in liaison with landowners		
	Comments	Site Score (R/A/G)
Evidence submitted to support site deliverability? (Yes/ No) (Additional information to be included as appropriate)	Site promoter has confirmed that site is deliverable	Green

Are on-site/ off-site improvements likely to be required if the site is allocated? (e.g., physical, community, GI)	No	Green
Has the site promoter confirmed that the delivery of the required affordable housing contribution is viable?	Site promoter has confirmed that the site is viable	Green
Are there any associated public benefits proposed as part of delivery of the site?	An area of public open space associated with the site has been suggested by the site promoter	

Part 7 Conclusion

CONCLUSION

Suitability The site is of a suitable size for allocation. The site relates well to the main settlement and existing services. Development of the site would not significantly encroach into the open countryside however development in this location would be visible in long views towards the site, including from the SBLPZ and River Valley. No highways, heritage or flood constraints have been identified.

Site Visit Observations The site offers open views across the River Valley. The site relates well to the settlement and existing services.

Local Plan Designations River Valley.

Availability Promoter has confirmed the site is available.

Achievability No identified issues.

OVERALL CONCLUSION: The site is considered to be a REASONABLE option for development. The site has a strong relationship with the existing built form of the settlement and would benefit from good connectivity. A landscape assessment would be required to determine the landscape impact of development in this location. There would not be a significant impact on existing vegetation on the site.

Preferred Site: Yes Reasonable Alternative: Rejected:

Date Completed: 11 January 2021

Site: SN4053, Land to the east of Stocks Hill Preferred for 15 dwellings on a site of 14 hectare.

Reasoned justification: The site is well nated to the existing built form of the settlement and would benefit from good connectivity to village services. A landscape assessment would be required to determine the landscape impact of development in this location. There would not be a significant impact on existing vegetation on the site.























