

DATED

12 August

2024

SUFFOLK COUNTY COUNCIL (1)

- and -

LOVELL PARTNERSHIPS LIMITED (2)

- and -

FLAGSHIP HOUSING GROUP LIMITED (3)

AGREEMENT

made pursuant to Sections 278, 72 and 38 of the Highways Act 1980
and any other enabling power relating to
the development of land lying to the north of St Margarets Crescent, Leiston, Suffolk

Nigel Inniss
Head of Governance
Suffolk County Council
8 Russell Road Ipswich
Suffolk IP1 2BX

Ref: AS/72873/Legal

**SECTION 278 AGREEMENT
INDEX**

	Page
Recitals & Definitions	
RECITALS AND DEFINITIONS	4
1 LEGAL EFFECT	9
2 NOTICES	10
3 GENERAL	11
4 ARBITRATION	12
5 COVENANTS	13
1 THE DESIGN OF THE HIGHWAY WORKS	17
2 LETTING OF THE CONTRACT	18
3 INSPECTION OF THE HIGHWAY WORKS	19
4 TESTING OF MATERIALS	20
5 OPENING OF THE HIGHWAY WORKS	21
6 UNDERTAKERS	22
7 PROTECTION OF THE PUBLIC	23
10 TIMING	25
11 SAFETY	26
12 ACCOMMODATION WORKS	26
13 CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015	26
14 SITE CLEARANCE AND CERTIFICATE(S) OF SUBSTANTIAL COMPLETION	28

15	DEFECTS CORRECTION PERIOD AND CERTIFICATE OF FINAL COMPLETION.....	29
16	INDEMNITY	30
17	PERFORMANCE BOND	31
18	COMMUTED SUMS FOR MAINTENANCE	33
19	LEGAL AND ADMINISTRATIVE COSTS	33
20	PARTS I AND II OF THE LAND COMPENSATION ACT 1973	34
	SCHEDULE II.A	37
	SCHEDULE II.B – not used	41
	SCHEDULE III.....	41
	SCHEDULE IV	42

THIS AGREEMENT is made the 12th day of August 2024
BETWEEN the following parties :-

- (1) **SUFFOLK COUNTY COUNCIL** of Endeavour House 8 Russell Road Ipswich Suffolk IP1 2BX ("the County Council")
- (2) **LOVELL PARTNERSHIPS LIMITED** (company number 02387333) of Kent House, 14-17 Market Place, London, W1W 8AJ ("the Developer")
- (3) **FLAGSHIP HOUSING GROUP LIMITED** (registered society number 31211R) of 31 King Street, Norwich, Norfolk, NR1 1PD ("the Owner")

RECITALS AND DEFINITIONS

- (A) In this Agreement unless the context otherwise requires the following words shall have the following meanings :-

"1980 Act"	Means the Highways Act 1980 (as amended)
"Approved Contractor"	Means the contractor(s) approved by the County Council for carrying out the Highway Works of the value and complexity proposed
"Approved Sub-Contractor"	Means the sub-contractor(s) approved by the County Council for carrying out the Highway Works of the value and complexity proposed
"CDM Regulations"	Means the Construction (Design and Management) Regulations 2015 (SI 2015/51)
"Certificate of Final Completion"	Means any of the certificates referred to in paragraph 15.3 of Schedule I
"Certificate of Substantial Completion"	Means any of the certificates referred to in paragraph 14.2 of Schedule I
"Commutated Sums"	Means the sum of £2,258.33 (Two Thousand, Two Hundred and Fifty-Eight Pounds and Thirty-Three Pence) which is calculated, as set out in paragraph 18.1 on Schedule I towards the cost of the County

Council's future maintenance liability of the Highway Works

"Compensation Figure"

Means the sum of £42,310.00 (Forty Two Thousand, Three Hundred and Ten Pounds) which is the amount which the Council reasonably considers sufficient to meet the cost of settling claims and connected costs under Part I of the Land Compensation Act 1973

"Compensation Deposit"

Cash Means the cash deposit to be paid to the Council in the sum of the Compensation Figure being the sum the County Council reasonably considers sufficient to meet the likely cost of settling claims and connected costs under Part I of the Land Compensation Act 1973

"Compensation Surety"

Bond ~~Means National~~

"Contract"

Means the contract for the Highway Works and all of the Highway Works

"Contractor"

Means the contractor or contractors who have been awarded the Contract to execute the Highway Works. For the avoidance of doubt the aforementioned definition does not include any subcontractor

"Development"

Means the development to be carried out pursuant to the Permission

"Director"

Means the County Council's Executive Director of Growth, Highways and Infrastructure or other officers of the County Council acting under his hand

"Highway Works"

Means the works collectively or individually as the

context requires which are set out in Schedule III of this Agreement and shown in the Works Drawings

“Highway Structure” Means any bridge, subway, culvert, pipe, tunnel, or other structure built in, over, under or adjacent to any part of the highway

“Performance Bond” Means the bond with the Performance Bond Surety for each and all of the Highway Works, such bond to be in the form set out in Schedule II.A, to the effect that should the Developer default in the execution of its obligations to carry out the Highway Works and to maintain the same in accordance with the provisions of this Agreement then the County Council will call upon the Performance Bond Surety to provide the full value of the Performance Bond (subject to the provisions hereinafter contained) to carry out the Highway Works and maintain the same as aforesaid

“Performance Figure” Means the sum of £46,787.87 (Forty-Six Thousand, Seven Hundred and Eighty Seven Pounds and Eighty-Seven Pence) being the Tender Sum plus 10 per cent in respect of the Highway Works and as set out in each of the Contracts

“Performance Bond Surety” Means National House Building Council

“Permission” Means the planning permission granted by East Suffolk Council dated 23rd May 2016 granted with reference number DC/16/2104/OUT in respect of the Site together with any modification of it

“Road Safety Audit” Means the evaluation of each and all of the Highway Works during design and at the end of construction to identify potential road safety

problems that may affect any users of the highway and to suggest measures to eliminate or mitigate those problems in accordance with Department for Transport standards or by the County Council as agreed by the Director

"Site"	Means land situated lying to the north of St Margarets Crescent, Leiston, Suffolk shown edged red for identification only on the attached plan no 0150 Rev P2
"Specification"	The County Council's "Specification for Estate Roads" dated May 2007 (or later amendment current at the date of this Agreement) so far as this is consistent with the Works Drawings and description in Schedule III (subject to any variations agreed in writing by the Director)
"Sub-contractor"	Means the sub-contractor(s) working for the Contractor(s) who have been contracted to execute the Highway Works
"Substantial Completion"	Means complete to the reasonable satisfaction of the Director and so that the Highway Works can be used for the purpose and operate in the manner for which they were designed
"Technical Standards"	Means the standards necessary to ensure complete conformity with all UK primary and secondary legislation (including by-laws) all guidance standards and codes of practice issued by the Department for Transport the County Council statutory undertakers and relevant professional institutes the Road Safety Audit and formal instructions issued by the Director from time to time during the design and implementation of the Highway Works and for the avoidance of doubt this shall include the Traffic Signs Regulations and

General Directions 2016 and BS5489 in relation to the design of any street lighting

"Tender Sum" Means the sum of £42,534.43 (Forty-Two Thousand, Five Hundred and Thirty-Four Pounds and Forty-Three Pence) (including the costs associated with statutory undertakers work and traffic management) agreed by the Director for carrying out the Contract by the Contractor

"Works Drawings" Means the attached drawings bearing the numbers referred to in Schedule IV or any subsequent revision of them which has been approved or requested by the Director and which relate to the Highway Works

(B) In this Agreement unless the context otherwise requires :-

- (i) Words importing the singular meaning where the context so admits include the plural meaning and vice versa; and
- (ii) Words of the masculine gender include the feminine and neuter genders and words denoting actual persons include companies, corporations and firms and all such words shall be construed interchangeably in that manner; and
- (iii) "party" or "parties" means a party or parties to this Agreement; and
- (iv) references to any party shall include the successors in title and assigns of that party; and in the case of the County Council the successors to its statutory functions; and
- (v) where a party includes more than one person any obligations of that party can be enforced against all of them jointly and severally unless there is an express provision otherwise; and
- (vi) the headings and contents list in this Agreement shall not form part of or affect its construction; and

- (vii) references to clauses schedules and paragraphs are references to clauses in and schedules to this Agreement and paragraphs in schedules to this Agreement; and
 - (viii) where a party or any officer or employee is required to give its consent approval or agreement to any specific provision in this Agreement such consent approval or agreement shall not be unreasonably withheld or delayed; and
 - (ix) any mention herein of any act or of any section regulation or statutory instrument shall be deemed to refer to the same source as at any time amended and where such act section regulation or statutory instrument has been replaced consolidated or re-enacted with or without amendment such mention shall be deemed to refer to the relevant provision of the updating consolidating or re-enacting act or section or regulation or statutory instrument
- (C) The County Council is the highway authority (except for trunk roads) for the purposes of the 1980 Act for the area within which the Site is situated and the Highway Works will be carried out
- (D) The Developer has the benefit of the Permission
- (E) The Owner is the registered proprietor with title absolute of the Site in so far as it is registered at the Land Registry under Title Number SK418163
- (F) The Owner wishes to dedicate as public highway that part of the Site upon which the Highway Works are to be constructed which does not currently form part of the public highway and the County Council agrees to accept such dedication and adopt that part of the Site and the Highway Works as highway maintainable at public expense on the terms and conditions hereinafter contained
- (G) Having regard to the development plan and other material considerations the County Council considers it expedient in the interests of the proper planning of their area that the Highway Works need to be carried out to facilitate the Development and that entering into this Agreement will be of benefit to the public

NOW THIS DEED WITNESSES as follows:-

1 LEGAL EFFECT

- 1.1. This Agreement and the covenants that appear hereinafter are made pursuant to Sections 38 72 and 278 of the 1980 Act Section 111 of the Local Government Act 1972 and Section 1 of the Localism Act 2011 and all other enabling powers to the intent that the provisions of this Agreement shall bind the Site and the parties hereto and all persons deriving title through or under them
- 1.2. This Agreement is a Deed. Any financial default under this Agreement will be registered as a Local Land Charge under section 278(5)(c) of the 1980 Act
- 1.3. No waiver (whether express or implied) by the County Council of any breach or default by the Developer in the performance or observance of any of the covenants, terms or obligations in this Agreement shall constitute a continuing waiver and no such waiver shall prevent the County Council from enforcing any of the covenants, terms or obligations or from acting upon any subsequent breach or default in respect thereof
- 1.4. Any provision of this Agreement which is or may be unlawful void or unenforceable shall to the extent of such unlawfulness invalidity or unenforceability be deemed severable and shall not affect any other provision of this Agreement
- 1.5. This Agreement is governed by and interpreted in accordance with English law and shall be determined in the Courts of England

2 NOTICES

- 2.1. Any notices or other written communication to be served or given by one party upon or to any other party under the terms of this Agreement shall be deemed to have been validly served or given if delivered by hand or sent by recorded delivery post or sent by the DX service to the party upon whom it is to be served or to whom it is to be given or as otherwise notified for the purpose by notice in writing provided that the

notice or other written communication is addressed and delivered by hand or by recorded delivery post or by the DX service to the address of the party concerned as nominated in sub-clause 2.2. below

- 2.2. The address for any notice or other written communication in the case of each party to this Agreement shall be as follows:-

The County Council	Suffolk County Council Endeavour House 8 Russell Road Ipswich IP1 2BX marked for the attention of the Assistant Director of Governance, Legal and Assurance (or where the context requires the Executive Director of Growth, Highways and Infrastructure, Endeavour House 8 Russell Road Ipswich IP1 2BX)
The Developer	marked for the attention of the Managing Director David Gough, Lovell Partnerships Ltd, Kent House, 14-17 Market Place, London, W1W 8AJ
The Owner	marked for the attention of the Managing Director of Flagship Housing Group Limited, 31 King Street, Norwich, Norfolk, NR1 1PD

- 2.3. Any notice or other written communication to be given by the County Council shall be deemed to be valid and effective if on its face it is signed on behalf of the County Council by a duly authorised officer

3 GENERAL

- 3.1. All works and activities to be carried out under the terms of this Agreement (including for the avoidance of doubt such works as are of a preparatory ancillary or of a maintenance nature) are (save where expressly provided otherwise) to be at the sole expense of the Developer and at no cost to the County Council

- 3.2. All consideration given and payments made in accordance with the provisions of this Agreement shall be exclusive of any VAT properly payable in respect thereof and in the event of VAT becoming chargeable at any time in respect of any supply made in accordance with the terms of this Agreement then to the extent that VAT had not previously been charged in respect of that supply the person making the supply shall raise a VAT invoice to the person to whom the supply was made and the VAT shall be paid accordingly
- 3.3. The County Council and their respectively duly authorised officers and agents may enter upon the land on which the Highway Works are being carried out at any reasonable time to ascertain whether the terms of the Agreement are being or have been complied with

4 ARBITRATION

- 4.1. Any dispute or difference arising between the parties as a result of this Agreement may be referred to the arbitration of a single arbitrator to be agreed upon between the parties or failing agreement within fourteen days after either of the parties has given to the other a written request requiring the appointment of an arbitrator to a person to be appointed at the request of either of the parties by the President for the time being of The Institution of Civil Engineers
- 4.2. Any reference to arbitration shall be undertaken in accordance with and subject to the provisions of the Arbitration Act 1996 save as follows:-
- (a) the seat of the arbitration shall be at the County Council's offices in Ipswich Suffolk
 - (b) where appropriate the arbitrator may consolidate arbitral proceedings
 - (c) with the parties' agreement the arbitrator may appoint experts or legal advisers
- 4.3 A party wishing to refer any such dispute or difference to arbitration shall notify the other party in writing of such intention without delay

4.4 The arbitrator shall act as a referee and not as an expert except in any case where the parties to a dispute or difference agree on the arbitrator when such parties may also agree that such arbitrator shall act as an expert

4.5 Subject to Sections 67 68 and 69 of the Arbitration Act 1996 the parties agree to be bound by the decision of the arbitrator

5 COVENANTS

5.1 The Owner covenants and warrants to the County Council that they have full power to enter into this Agreement and there is no other person having a charge over or any other interest in the Site whose consent is necessary for the Owner to enter into this Agreement and to comply with the obligations set out at paragraph 14.3 of Schedule I

5.2 The Developer hereby covenants and undertakes with the County Council that from the date of this Agreement it will (unless otherwise agreed by the County Council) carry out and comply with the obligations set out in Schedule I and the details set out in Schedules III and IV hereto

5.3 The County Council without prejudice to its statutory powers and duties hereby appoints the Developer to act as its agent and gives to the Developer licence (in so far as is reasonably necessary for the Developer to perform the obligations under the terms of this Agreement) to enter into and upon and remain upon the highway to carry out the construction of the Highway Works within the timescales referred to in Schedule III hereto or such other period as may be agreed in writing by the Director, provided that this licence shall not extend to the Developer's successors in title or assigns unless otherwise agreed in writing by the Director prior to that successor or assignee commencing work in the public highway

5.4 The Developer covenants with the County Council not to commence the Highway Works set out in Schedule III unless road space has first been booked with the County Council

5.5 The Developer covenants with the County Council as highway authority to give written notice not less than three calendar months prior to works commencing, in order that the County Council as highway authority has

sufficient time to ensure that the commencement of works will cause the least disruption possible to road users and the County Council reserves the right to refuse consent and/or to stop or require the stopping of works under the terms of this Agreement and relevant legislation where the aforesaid notice period is not complied with

5.6 The Developer covenants with the County Council as highways authority to comply with the provisions of the New Roads and Street Works Act 1991, the Traffic Management Act 2004 and any amendments thereof

5.7 The County Council covenants with the Developer that on the date of issue of the Certificate of Final Completion the roads subject to the Highway Works shall thenceforth be, to the extent they are not already, adopted as highways maintainable at the public expense

6 THIRD PARTY RIGHTS

6.1 It is hereby agreed and declared that the provisions of Contracts (Rights of Third Parties) Act 1999 shall not apply to this Agreement

7 LAPSE

7.1 If the Highway Works have not been commenced within one (1) year from the date of this Agreement, save as this period is otherwise extended in writing by the Director at his discretion, then this Agreement shall lapse and be of no further effect (save to the extent already complied with) and the Developer agrees to pay to the County Council any costs properly incurred by the County Council prior to the lapse of this Agreement (which have not already been paid) including but not limited to those costs set out in paragraph 19 of Schedule I to this Agreement

7.2 Where, in accordance with clause 7.1 above the Director, at his discretion, agrees in writing to an extension to the period of one (1) year after which this Agreement shall lapse, this Agreement shall lapse at the end of such period as agreed in writing by the Director where the Highway Works have not been commenced by the expiry of that extension period

In witness whereof this Agreement has been executed and delivered as a Deed on
the date first written above

The COMMON SEAL of)
SUFFOLK COUNTY COUNCIL)
was hereunto affixed)
in the presence of)



[Redacted]
.....
A Duly Authorised Officer [Redacted]

EXECUTED FLAGSHIP HOUSING
GROUP LIMITED acting by

ii [Redacted]

Signed as a deed by D. Gough.... and A. Starkings.... as attorneys for LOVELL PARTNERSHIPS LIMITED in the presence of:

WITNESS

.....
.....
.....
.....
.....

[REDACTED]

..... [SIGNATURE]
..... [NAME]
..... [ADDRESS]
.....

[REDACTED]

WITNESS

.....
.....
.....
.....
.....

[REDACTED]

[REDACTED]

..... [SIGNATURE]
..... [NAME]
..... [ADDRESS]
.....

[REDACTED]

[SIGNATURE]

as attorney for Lovell Partnerships Limited

Executed as a DEED by FLAGSHIP)

HOUSING GROUP LIMITED acting)

by [], an)

authorised signatory and)

[REDACTED]

Authorised Signatory

Executed as a DEED by)

+ [REDACTED])

as attorney for and on behalf of)

FLAGSHIP HOUSING GROUP

LIMITED under a power of

attorney dated 31 May 2024 in

the presence of:

[REDACTED]

Signature of witness:

[REDACTED]

Name of witness (IN BLOCK
CAPITALS):

[REDACTED]

Address:

[REDACTED]

Occupation:

SCHEDULE I

1 THE DESIGN OF THE HIGHWAY WORKS

- 1.1 The design of the Highway Works shall be to the satisfaction of the Director with due consideration of the Technical Standards
- 1.2 No work on any of the Highway Works shall commence and no Contract for their construction shall be let until
 - 1.2.1 full details of the design of the Highway Works to be commenced in the form of plans, drawings, specifications and other materials have been submitted to the Director together with the name of the principal designer (whom the Developer shall appoint for the full duration of the design and construction of each and all of the Highway Works) in accordance with the CDM Regulations and any codes of practice referred to therein
 - 1.2.2 the Director has given his written approval to the Highway Works to be commenced and such approval shall not be given if the said plans, drawings, specifications and other documentation have not adequately addressed the issues raised in the pre-construction stages of the Road Safety Audit process and if given shall lapse if the Highway Works are not commenced within twelve (12) months of the date of the said Director's approval
 - 1.2.3 preliminary proposals, detailed contract drawings, schedules and specifications for Highway Structures have been prepared by the Developer and submitted for written approval to the Director's Bridge Office in accordance with Department for Transport Document BD2/12 and the structural design and checking procedure has been carried out by an incorporated or chartered engineer familiar with Department for Transport Codes of Practice and experienced in the design of Highways Structures. The documents are to be agreed as applicable with the Director before the design is commenced and details are submitted for approval

- 1.3 If the Director does not propose to give his approval in relation to those matters referred to in paragraph 1.2 of this Schedule he shall in each case as soon as possible in writing inform the Developer and if the Director requires amendments or additions to the plans drawings specifications and other materials referred to in paragraph 1.2 of this Schedule these amendments shall be undertaken by the Developer at his own expense and a revised set of updated documents shall be re-submitted to the Director for his approval
- 1.4 Without prejudice to paragraph 1.2 of this Schedule, the Director shall not give his approval as referred therein until the Developer has paid the sum referred to in paragraph 19.1.3 towards the cost of checking the design of the Highway Works and inspecting the Highway Works. The Highway Works at all times shall be carried out in accordance with the plans, drawings, specifications and other materials which have received the Director's approval referred to in paragraph 1.2 of this Schedule and the Developer shall in the execution of the Highway Works comply or ensure that the Contractor complies with the Technical Standards

2 LETTING OF THE CONTRACT

- 2.1 No Contract shall be let until all traffic management measures have been prepared by the Developer and approved in writing by the Director ("the approved programme") and thereafter each of the Contracts will be offered to an Approved Contractor
- 2.2 The Contract to be let under paragraph 2.1 of this Schedule shall be let under NEC3 suite of contracts (and any amendments thereto shall be approved by the Director) and the Developer shall obtain the agreement of the Contractor to be bound by the agreed drawings in Schedule IV
- 2.3 The Contract shall be awarded by the Developer subject to the Director having first given his written approval to the proposed chartered engineer(s) or other suitably qualified person(s) who shall be independent of the Contractor and will supervise the execution of the Highway Works by the Contractor
- 2.4 The Developer shall not award the Contract unless the Approved Contractor and the Approved Sub-Contractor/s concerned are insured

throughout the period of the Contract (such period to include the maintenance period detailed in paragraph 15.1 of this Schedule) for public liability risks in the sum of at least ten million pounds (£10,000,000) in respect of any single claim and the Developer shall ensure that the Contractor remains so insured throughout the period of the Contract and prior to the commencement of each or all of the Highway Works or any maintenance works carried out in accordance with paragraph 15.1 of this Schedule the Developer shall produce to the Director insurance policies fully covering the Developer's liability in respect of the matters set out in this Agreement

- 2.5 The Developer shall not sub-contract or assign the Contract without the written approval of the Director and any sub-contractor shall be an Approved Sub-Contractor

3 INSPECTION OF THE HIGHWAY WORKS

- 3.1 The Developer shall provide the Director with not less than twenty-four (24) hours nor more than seventy-two (72) hours notice (excluding weekends and bank holidays) of any intended execution of the Highway Works specifying the tasks to be carried out in accordance with the approved programme referred to in paragraph 2.1 of this Schedule
- 3.2 Without prejudice to the approved programme the Developer shall notify the Director in writing at least twenty-eight (28) days prior to the commencement of any work connected with statutory undertaker's equipment
- 3.3 Without prejudice to the approved programme the Developer shall notify the Bridge Office and the Director in writing at least seventy-two (72) hours prior to the commencement of each and every stage of excavation and concrete operations associated with any Highway Structures
- 3.4 The Developer shall during the progress of each and all of the Highway Works give to or procure for the Director and any person or persons duly authorised by him free access to every part of the Highway Works and the Site and permit him or them to inspect the same as they proceed and all materials used or intended to be used therein and shall give effect to any reasonable and proper requirements made or reasonable and proper

directions given by the Director to conform to the approved detailed plans Works Drawings and specification referred to in paragraph 1.2 of this Schedule

- 3.5 The Developer shall not cover up or put out of view any works forming part of the Highway Works without the approval of the Director and shall afford full opportunity for the Director to examine and measure any work which is about to be covered up or put out of view and to examine foundations before permanent work is placed thereon and shall give at least seventy-two (72) hours' notice to the Director whenever any such work or foundations is or are ready or about to be ready for examination
- 3.6 The Director shall without unreasonable delay, unless she considers it unnecessary and advises the Developer accordingly, attend when required by the Developer for the purpose of examining such works or of examining such foundations
- 3.7 The Director shall for the purposes of paragraphs 3.1 to 3.6 be allowed reasonable access and admission to the Highway Works or the places where materials or plant for the Highway Works may be stored or in the course of preparation manufacture or use (unless such access or admission is refused due to circumstances beyond the control of the Developer)

4 TESTING OF MATERIALS

- 4.1 The Developer shall reimburse the County Council for all reasonable costs and expenses whatsoever arising from the operation of paragraphs 4.2 to 4.5
- 4.2 The Director shall require the testing of materials plant and workmanship used or proposed to be used in the Highway Works and in his reasonable discretion have the power to reject any materials plant or workmanship so tested which he may reasonably and properly find to be not in accordance with the approved detailed plans Works Drawings and specification referred to in paragraph 1.2 of this Schedule In relation to Highways Structures the Director will require a schedule of testing to be agreed prior to the commencement of works or any part thereof

- 4.3 The Developer shall as soon as is reasonably practicable replace or repair any materials plant or workmanship which have been found to be not in accordance with the approved detailed plans Works Drawings and specification referred to in paragraph 1.2 of this Schedule
- 4.4 The Director shall for the purposes of paragraphs 4.2 to 4.5 be allowed reasonable access and admission to the Highway Works or the places where materials or plant for the Highway Works may be stored or in the course of preparation manufacture or use (unless such access or admission is refused due to circumstances beyond the control of the Developer)
- 4.5 The Developer shall as soon as is reasonably practicable remove such materials and plant as are rejected by the Director pursuant to paragraph 4.2. of this Schedule which are not capable of repair or remedy from the Site and if the Developer shall wish to continue to store such rejected materials and plant on the Site they shall be stored separately from those materials and plant which have not been so rejected or which the Developer shall wish in future to use in execution of the Highway Works

5 OPENING OF THE HIGHWAY WORKS

- 5.1 During the construction of each and all of the Highway Works and prior to the issue of the Certificate of Substantial Completion:
- (a) the Director may issue instructions to the Developer to open or expose any of the Highway Works which has been covered up without previously being inspected by the Director
 - (b) should the Developer fail to comply with any such instructions the County Council may so take up or expose the relevant part of the Highway Works causing as little damage or inconvenience as is possible in respect of any other part or parts of the Highway Works the reasonable and proper cost of such taking up or exposure and reinstatement to be met by the Developer

PROVIDED THAT if the Highway Works or any part or parts thereof are covered up by the Developer after giving the notice referred to in paragraph 3.5 of this Schedule and the Director shall have failed to inspect in the period

therein referred to and the Director shall subsequently require the Highway Works or any part of them to be uncovered for the purposes of inspection:-

- (a) if inspection reveals the relevant part or parts of the Highway Works to have been completed in accordance with the approved detailed plans drawings and specification referred to in paragraph 1.2 of this Schedule all costs in respect of such uncovering and inspection and of reinstating the part or parts of the Highway Works uncovered shall be borne by the County Council; or
- (b) if inspection reveals the relevant part or parts of the Highway Works not to have been completed in accordance with the approved detailed plans drawings and specifications referred to in paragraph 1.2 of this Schedule all reasonable and proper costs in respect of uncovering and inspection and of reinstating the part or parts of the Highway Works uncovered shall be borne by the Developer

6 UNDERTAKERS

6.1 Insofar as the County Council as Highway Authority is required by any legislation regulation direction or code of practice (including in particular but without prejudice to the generality of the foregoing the New Roads and Street Works Act 1991) to serve a notice or notices in respect of the Highway Works on undertakers or other persons the Developer shall comply with such requirement on behalf of the County Council before the Highway Works commence and shall thereafter assume on behalf of the County Council such responsibilities as follow on therefrom in particular during the construction of the Highway Works and prior to the issue of the Certificate of Substantial Completion the Developer shall also:-

- (a) carry out or procure the carrying out of such works and activities in regard to the plant and equipment of undertakers as are required by undertakers in accordance with their statutory powers under the New Roads and Street Works Act 1991 as a result of the construction or intended construction of each and all of the Highway Works
- (b) cause all public sewers, highway drains gas and water mains electric cables and telecommunications ducts or other apparatus

which are to be laid by the Developer under the Highway Works together with all necessary connections from them to the boundary of the Highway Works to be laid so far as is practicable under the Highway Works before the foundation of the Highway Works are laid and shall also in so far as is practicable cause the connections from electric cables to any street lamp to be laid before the paving of the footways comprised in the Highway Works is carried out

- (c) cause all trench works within the highway to be backfilled and reinstated in accordance with the Specification for the Reinstatement of Openings in the Highway as determined from time to time under the New Roads and Street Works Act 1991
- (d) not at any time give consent to the erection by any telecommunications operator of telegraph poles or telephone poles or to the erection by any statutory undertaker or public or private company firm or individual of any over ground or underground equipment without the consent in writing of the Director

7 PROTECTION OF THE PUBLIC

- 7.1 The Developer shall give due consideration to adjoining owners and occupiers at all times and shall organise activities relating to the Highway Works in such a manner as to cause the least practicable disruption
- 7.2 Prominent notices shall be displayed and maintained around the perimeter of the site of each and all of the Highway Works to warn the public of the dangers of entering the Site
- 7.3 The Developer shall nominate a member of the site management team as the contact point for the Director in the event of an emergency and shall advise a daytime and twenty-four (24) hour contact number to the Director for the same purpose
- 7.4 The Developer shall take or procure the taking of all necessary steps to avoid creating a nuisance from noise and in particular:

- 7.4.1 the Developer shall afford all reasonable facilities to enable the Director to carry out such site investigations as she may deem necessary in order to determine noise emission levels
- 7.4.2 all vehicles and plant including compressors shall be fitted with effective silencers and acoustic covers as appropriate and maintained in good working order and all static plant shall be located to minimise nuisance to persons living or working in the vicinity
- 7.4.3 all portable traffic signals and pumps shall be operated from mains electricity unless otherwise agreed with the Director
- 7.4.4 noisy activities shall not be permitted on Sundays and Bank Holidays and except as agreed in writing by the Director shall not be permitted outside the hours of 9.30 a.m. to 4.30 p.m. Monday to Friday and 9.30 a.m. to 1 p.m. on Saturdays

PROVIDED THAT if in the reasonable opinion of the Director the Developer is not dealing adequately with the control of noise the Developer shall carry out or procure the carrying out of such additional measures as the Director considers necessary at the Developer's expense

- 7.5 Compliance with the provisions of paragraph 7.4 shall not relieve the Developer of any of his obligations and liabilities under this Agreement the Control of Pollution Act 1974 or the Environmental Protection Act 1990
- 7.6 The Developer shall take or procure the taking of all necessary steps to avoid creating a nuisance from dust and as far as practicable works are to be carried out in such a way that dust is kept to a minimum PROVIDED THAT if in the reasonable opinion of the Director the Developer is not dealing adequately with the control of dust the Developer shall carry out or procure the carrying out of such additional measures as the Director considers necessary at the Developer's expense
- 7.7 The Developer shall arrange the regular removal of refuse likely to encourage vermin and arrange for suitable secure storage containers to be provided for collection

- 7.8 The Developer shall keep a log book on site to record all complaints received from the public and the action taken in response and the log book shall be available for inspection by the Director

8 PREVENTION OF MUD BEING CARRIED ON THE PUBLIC HIGHWAY

- 8.1 Provision shall be made at the Site to limit in so far as is practicable the amount of mud dust and other materials carried on to adjacent public highways by vehicles and plant leaving the Site
- 8.2 The Developer shall keep or procure the keeping of all roads footpaths rights of way and other means of passage leading to or from or crossing the Site free from mud slurry or other hazardous substances that are deposited through the construction of the Highway Works and any such substance so deposited on any such road footpath right of way or other means of passage shall be promptly removed by or at the direction of the Developer
- 8.3 The Director may close any associated crossings entrances and exits if such substances deposited are not promptly removed by the Developer and any losses or expenses incurred as a result shall be borne by the Developer and on removal of such substances the Director shall reopen such crossings entrances and exits and the Developer shall bear the costs incurred

9 TRAFFIC CONTROL

- 9.1 During the periods when the Highway Works are being executed the Developer shall institute at his own expense measures previously approved in writing by the Director to maintain the safe flow of traffic on the highways in the vicinity of the site of the Highway Works
- 9.2 The Highway Works shall be signed and protected to at least the standards of Chapter 8 of the Traffic Signs Manual published by His Majesty's Stationery Office and the proposed arrangements shall be approved in writing by the Director before the Highway Works commence

10 TIMING

10.1 No Highway Works within or affecting existing public highways or temporary diversions which could interfere with the traffic flow will be permitted within the morning and evening peak periods i.e. 7.30 - 9.30 a.m. and 4.30 - 6.30 p.m. Monday to Friday except as agreed in writing by the Director

11 SAFETY

11.1 During the periods when the Highway Works are being carried out the Developer shall provide all watching and lighting as required and shall maintain all lights, guards, fencing, warning signs when and, where necessary, undertake such further measures as may be reasonably required by the Director

12 ACCOMMODATION WORKS

12.1 The Developer shall carry out or ensure that there shall be carried out all related accommodation works associated with the Highway Works

13 CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015

13.1 The Developer shall be the only client for the purpose of the CDM Regulations and the Developer agrees to undertake the obligations of a client under the CDM Regulations and to use all reasonable endeavours to ensure that the Highway Works are carried out in accordance with the CDM Regulations

13.2 The Highway Works shall not commence until the Developer as the only client has provided to the Director:

13.2.1 an estimate of the number of working days and/or person days of construction work and the number of workers working on site simultaneously at any one point in the project which the Contract will entail

13.2.2 written details of the principal designer and the principal contractor appointed for the project and also provide copies of the Construction Phase Plan and Health & Safety File

13.2.3 a copy of the Notification of Project (form HSE F10) to the HSE pursuant to Regulation 6 of the CDM Regulations

13.3 Throughout the Highway Works the Developer shall provide to the Director copies of the updates and revisions to the construction phase plan and Health and Safety File pursuant to Regulation 12

13.4 Within twenty-eight (28) days of issue of the Certificate of Substantial Completion for any or all of the Highway Works the Developer shall provide to the Director

13.4.1 a plan showing the land over which those Highways Works have been constructed and

13.4.2 a Health and Safety file conforming in all respects with the CDM Regulations and which shall accord with the current format used by the County Council to include a separate Health and Safety File for each Highway Structure

13.5 The Director shall be at liberty to delay issue of the Certificate of Final Completion in respect of any of the Highway Works if the Developer fails to provide the Director with the documents referred to in 13.4.1 and 13.4.2 above within twenty-eight (28) days of issue of any Certificate of Substantial Completion for any of the Highway Works equivalent to the number of days after the twenty-eight (28) day period that the documents were submitted

13.6 In respect of the Highway Works generally the Developer shall provide to the Director the final information in both paper and electronic format and shall at least comprise:

13.6.1 1:500 scale (or alternative scale as may be specified by the Director) "as built" drawings

13.6.2 records of the earthworks showing sources of material used in areas of fill description of fill materials descriptions of sub-grades in cut areas copies of results of tests of material carried out as part of the supervision of the construction of the earthworks

13.6.3 records of the sources of supply of all deliveries of road construction materials with details of the location of the Highway Works at which each load is placed

13.6.4 records of the sources of supply of all other manufactured materials (e.g. drainage goods, fencing materials, traffic signs, electrical components and cables etc).

13.7 No work on Highway Structures shall commence until the general Health and Safety file information including format to be supplied in respect of Highway Structures has been agreed with the County Council's Bridge Engineer and shall accord with the County Council's current Technical Approval Procedure for Highway Structures

13.8 The Developer shall indemnify and keep the County Council indemnified against any breach of the Developer's obligations under this paragraph
13

14 SITE CLEARANCE AND CERTIFICATE(S) OF SUBSTANTIAL COMPLETION

14.1 On Substantial Completion of the Highway Works the Developer shall:-

14.1.1 clear away and remove from the site of the Highway Works all constructional plant and temporary works of every kind and leave the site of the Highway Works in a neat and tidy condition to the satisfaction of the Director and

14.1.2 carry out stage 3 of the Road Safety Audit process and comply to the satisfaction of the Director with recommendations arising thereunder prior to the opening of the Highway Works to the public

14.2. Upon Substantial Completion of the Highway Works including any additional work resulting from stage 3 of the Road Safety Audit process to the satisfaction in all respects of the Director he shall issue a Certificate of Substantial Completion in respect of those Highway Works to the Developer provided that all costs and expenses owing to the County Council have been paid in respect of those Highway Works

14.3. The Owner hereby agrees that on the date of Substantial Completion that part of the Site upon which the Highways Works are constructed which does not currently form part of the public highway shall be dedicated as highway under section 38 of the 1980 Act

14.4. After the issue of the Certificate of Substantial Completion the County Council may approve a reduction of up to 90% of the Performance Figure in respect of the relevant Highway Works and the County Council may release the Developer and the Performance Bond Surety and each of them from their obligations under the Performance Bond in respect of the relevant Highway Works to such extent

15 DEFECTS CORRECTION PERIOD AND CERTIFICATE OF FINAL COMPLETION

15.1 The Developer shall maintain each and all of the Highway Works for a period of eighteen (18) months (unless the Director agrees in writing a lesser period having considered paragraph 15.2) from the issue of the related Certificate of Substantial Completion and prior to the expiration of this period the Developer shall reinstate and make good any damage or defect which may have arisen from any cause whatsoever or be discovered during the said period of eighteen months (including any defect in or damage to the surface water drainage system) so as to place the highway and the Highway Works in a condition satisfactory to the Director

15.2 After the expiration of the period of twelve (12) months from Substantial Completion or the date the Development becomes operational (whichever is the latter) the Developer shall (unless the Director writes to the Developer informing him that it is to be carried out sooner or that he does not need to do so) carry out stage 4 of the Safety Audit and comply to the satisfaction of the Director with any recommendations arising thereunder

15.3 After the expiration of the period of eighteen (18) months referred to in paragraph 15.1 (or such lesser period as agreed in writing by the Director under paragraph 15.1) and after any defects have been made good as therein provided including any improvements arising under stage 4 of the

Road Safety Audit to the satisfaction of the Director and after the provisions of paragraph 13.4 and paragraph 20.5 of this Schedule have been fulfilled the Director shall issue forthwith to the Developer the Certificate of Final Completion in respect of the Highway Works provided that the Certificate of Final Completion shall in the case of road gullies extend only as far as their points of entry to the surface water sewers where those are not being adopted by the County Council as highway drains and upon the issue of the Certificate of Final Completion the County Council shall release the Developer and the Performance Bond Surety and each of them from all subsisting obligations under the Performance Bond in respect of those Highway Works

15.4 If called upon to do so by notice in writing served within twenty-one years of the date hereof by the County Council the Owner agrees to transfer to the County Council in consideration of one pound any land over which any part of the Highway Works have been constructed which does not at the date of this Agreement already form part of the highway together with any other land dedicated as public highway by the Owner hereunder free in each case from encumbrances and together with all rights necessary to permit the use inspection maintenance repair and replacement of all utility systems servicing the Highway Works and not vested in the relevant undertaker as are situated outside the limits of the Highway Works and the said other land

16 INDEMNITY

16.1 The Developer shall from the date of this Agreement indemnify the County Council against all claims charges costs expenses liability or loss whatsoever arising out of and incidental to any or all of the Highway Works including but not limited to those arising out of any legally sustainable claims for payments under Section 10 of the Compulsory Purchase Act 1965 and Part I of the Land Compensation Act 1973 (as amended) in connection with those Highway Works provided that the Developer's indemnity will not extend to any claims submitted to the County Council arising out of the negligence of the County Council's employees or arising out of any works of alteration carried out to any of

the Highway Works by the County Council after the issue of the related Certificate of Final Completion

16.2 The County Council shall notify the Developer forthwith upon receipt of any such claim or liability

16.3 The County Council shall not accept or settle any claim without first having given the Developer the opportunity to provide the County Council with representations as to the validity of such claim

16.4 The indemnification referred to in paragraph 16.1 includes:

16.4.1 all fees incurred by claimants which the County Council is obliged to pay, and those of the County Council or its agent or contractor, in negotiating any claims (together with VAT payable on the claimants' professional advisors' fees);

16.4.2 statutory interest payments to claimants and their professional advisors; and

16.4.3 the County Council's reasonable and proper legal costs in making the compensation, fees and interest payments

17 PERFORMANCE BOND

17.1 Without expense to the County Council the Developer and the Performance Bond Surety shall on the date of this Agreement enter into the Performance Bond for each and all of the Highway Works and the Developer and Performance Bond Surety shall be bound to the County Council in the amount of the Performance Figure for the Highway Works

17.2 Should the Developer default in the execution of its obligations to carry out any or all of the Highway Works and to maintain the same in accordance with the provisions of this Agreement then the County Council may (subject to the provisions hereinafter contained) itself carry out the Highway Works and maintain the same as aforesaid having first called upon the Performance Bond Surety for the cost to be expended in so doing

- 17.2.1 Unless there is a danger to users of the highway the County Council shall give twenty (20) working days prior written notice (or lesser period as may in the circumstances be reasonable) of its intention to commence work under Paragraph 17.2
- 17.2.2 any notice served under this paragraph shall specify the period of the notice ("the Notice Period") the extent of the work which the County Council proposes to carry out and full details of all matters in respect of which the Director considers that the Highway Works have not been carried out in accordance with the terms of this Agreement
- 17.2.3 if before the expiry of the Notice Period the Developer serves written notice upon the County Council that the Developer intends diligently to execute the works specified in the notice in accordance with the terms of this Agreement and specifies a time to complete that the County Council considers reasonable in the circumstances the County Council shall not be entitled to execute the relevant part or parts of the Highway Works specified in the notice served under this paragraph unless the Developer then fails to execute those works within the agreed time scale
- 17.3 If the Developer should default in the execution of its obligations to carry out any or all of the Highway Works and to maintain the same in accordance with the provisions of this Agreement then the County Council will call upon the Performance Bond Surety to provide the full Performance Figure (or such sum that remains following reduction of the Performance Bond in accordance with Paragraph 14.4 of this Schedule) in accordance with this Agreement. Save that the County Council after all works are completed and all contracts and any contract claims settled will return any Performance Bond sum unused with interest at the Bank of England Base Rate minus 2 basis points, compounding annually at financial year end on receipt of a written request to the Performance Bond Surety within one month of all the aforementioned completing and settling. If for any period the Bank of England Base Rate is at or below

0.02% then no interest shall be payable for that period by any party to this Agreement

18 COMMUTED SUMS FOR MAINTENANCE

18.1 Prior to the date of this Agreement the Developer shall pay to the County Council the Commuted Sums calculated as follows:

	£
Footways	1,492.15
Drainage	632.68
Traffic Signals	133.50

19 LEGAL AND ADMINISTRATIVE COSTS

19.1 The Developer shall pay to the County Council:-

19.1.1 the whole of the costs of the County Council's Legal Services Department in connection with the preparation and completion of this Agreement and these costs shall be payable prior to sealing of this Agreement;

19.1.2 interest at four per cent above the Bank of England Base Rate from time to time on any sum due to the County Council under this Agreement which is outstanding for more than twenty-eight (28) days from the date on which it was demanded or in the event that a dispute or difference regarding such payment is referred to arbitration pursuant to clause 4.1 of this Agreement the said twenty-eight (28) day period shall run from the date of the decision of the arbitrator (such interest to be charged on the amount outstanding each day from the date of issue of a written demand for any sum due or in the event that a dispute or difference regarding such payment is referred to arbitration pursuant to clause 4.1 of this Agreement such interest to be

charged on the amount outstanding each day from the date of issue of the decision of the arbitrator)

- 19.1.3 The greater of £5000 (Five thousand pounds) or 7½% of the Performance Figure (excluding the costs associated with statutory undertakers work and traffic management) for the Highway Works towards the costs and expenses of the County Council of checking the design of each and all of the Highway Works and inspecting each and all of the Highway Works such sum shall be payable prior to sealing of this Agreement
- 19.1.4 the reasonable cost to the County Council of undertaking Road Safety Audits and also the cost of the safety checks of details submitted which sum shall be payable prior to the safety audit commencing
- 19.1.5 the cost of any temporary and permanent traffic regulation orders which sum shall be payable prior to any work on the making of such order being commenced
- 19.1.6 the full cost of any other road traffic orders required to facilitate the Highway Works which sum shall be payable prior to any work on the making of such order being commenced
- 19.1.8 the whole of the costs of the County Council in connection with surveying and assessing the land upon which the Highways Works are to be constructed and land in the vicinity of the Highway Works as deemed necessary by the County Council in order to provide the Compensation Figure for the Compensation Bond, and these costs shall be payable prior to sealing of this Agreement

20 PARTS I AND II OF THE LAND COMPENSATION ACT 1973

Part I and II Claims

- 20.1 On the date of this Agreement and without expense to the County Council the Developer shall pay the Compensation Cash Deposit to the County Council

20.2 The Compensation Cash Deposit shall provide that should the Developer default in any way in his obligation to pay to the County Council the sums specified in paragraph 16 of this Schedule the County Council may call upon the Compensation Cash Deposit to pay the sums due under paragraph 16 and paragraph 20.4 of this Schedule to the County Council or any shortfall in the event that some of the sums have already been paid to the County Council

Part I Claims - Depreciation Caused By Public Works

- 20.3 Upon the date which falls seven (7) years from the point at which the Highway Works is first open to public traffic and if all duly made claims are settled the County Council will release the Developer from all subsisting obligations under the Compensation Cash Deposit and the remainder of the Cash Deposit shall be returned together with interest as applied at the Bank of England Base Rate minus 2 basis points, compounding annually at financial year end on receipt of a written request. If for any period the Bank of England Base Rate is at or below 0.02% then no interest shall be payable for that period by any party to this Agreement save that if all duly made claims are not settled all but an amount reasonably sufficient to settle such claims will be released
- 20.4 The Developer hereby undertakes and agrees with the County Council that in the event of any claim for compensation or otherwise or costs or charges arising in connection with or incidental to or in consequence of the carrying out of the Highway Works whether mandatory or discretionary which may be incurred by virtue of any enactment or statutory instrument and otherwise hereby provided for the Developer shall be indemnified from and against all claims charged thereon or arising therefrom

Part II Claims

- 20.5 The Developer covenants with the County Council to comply with the requirements of the Noise Insulation Regulations 1975 (SI 1975/1165) as amended and to provide to the County Council such evidence as is required by the Director to demonstrate compliance with the Noise Insulation Regulations 1975 prior to the issuing by the County Council of the Certificate of Final Completion in accordance with paragraph 15.3 of this Schedule



SCHEDULE II.A

Performance Bond Agreement

DATED 12 August 2024

LOVELL PARTNERSHIPS LIMITED (1)

- and -

NATIONAL-HOUSE BUILDING COUNCIL (2)

PERFORMANCE BOND

relating to the development of land at 22 and 24 St Margarets Crescent and Land on
the west side of Station Road and on the north side of Waterloo Avenue, Leiston,
Suffolk

BY THIS BOND LOVELL PARTNERSHIPS LIMITED of Kent House, 14-17 Market Place, London, W1W 8AJ ("the Developer") and

NATIONAL HOUSE-BUILDING COUNCIL ("the Surety") are held and firmly bound to **SUFFOLK COUNTY COUNCIL** of Endeavour House 8 Russell Road Ipswich Suffolk IP1 2DH ("the County Council") in the sum of £46,787.87 (forty six thousand, seven hundred and eighty seven pounds and eighty seven pence pounds) to be paid to the County Council for the payment of which sum the Developer and the Surety bind themselves their successors and assigns jointly and severally

IN WITNESS whereof the Developer and the Surety have hereunto executed and delivered the same on but not before this 12th day of August Two thousand and twenty-four

1. The Developer has entered into an Agreement under seal with the County Council of even date made under Section 278 of the 1980 Act whereby the Developer undertook at its own expense to carry out works as set out in Schedule III of the said Agreement and shown in the Works Drawings annexed to the said Agreement ("the Highway Works")
2. It is intended that this Bond shall be construed as one with the said Agreement

NOW THE CONDITION of the above-written Bond is such that if the Developer shall duly perform and observe all the terms provisions conditions and stipulations of the said Agreement (in so far as they relate to the Highway Works) on the Developer's part to be performed and observed according to the true intent and meaning thereof

or if on default by the Developer the Surety shall duly satisfy and discharge the damages sustained by the County Council up to the amount of the above-written Bond then the above-written Bond shall be null and void but otherwise shall remain in full force and effect **PROVIDED ALWAYS** that the giving by the County Council of any extension of time for performing the said Agreement or any stipulations therein contained and on the part of the Developer to be performed or any other forgiveness or forbearance on the part of the County Council or its successors or assigns shall not in any way release the Surety from any liability under the above-written Bond

Signed as a deed by

and

as attorneys for LOVELL PARTNERSHIPS LIMITED under a power of attorney

in the presence of:

as attorney for Lovell Partnerships Limited

WITNESS

... [SIGNATURE]

... [NAME]

... [ADDRESS]

in the presence of:

as attorney for Lovell Partnerships Limited

WITNESS

... [SIGNATURE]

... [NAME]

... [ADDRESS]

28 39 FHG

.....
.....
Signed as a deed by [REDACTED] as attorney for
National House-Building Council under a Power of Attorney
dated [27th Nov. 2013]

[REDACTED] Underwriting Operations Manager
.....
As attorney for National House-Building Council

In the presence of:

[REDACTED]

[REDACTED]

Name of Witness

Witness Signature

Occupation of Witness

Address of Witness

[REDACTED]

SCHEDULE 11.B - not used.

~~SCHEDULE 11.B~~

~~COMPENSATION BOND~~

~~Bond Agreement~~

~~DATED~~

~~LOVELL PARTNERSHIPS LIMITED (1)~~

~~and~~

~~NATIONAL HOUSE-BUILDING COUNCIL (2)~~

~~COMPENSATION BOND~~

~~relating to the development of 22 and 24 St Margarets Crescent and Land on the
west side of Station Road and on the north side of Waterloo Avenue, Leiston,
Suffolk~~

~~BY THIS BOND LOVELL PARTNERSHIPS LIMITED ("the Developer") and~~
~~NATIONAL HOUSE-BUILDING COUNCIL ("the Surety") are held and firmly bound~~
~~to SUFFOLK COUNTY COUNCIL of Endeavour House 8 Russell Road Ipswich~~
~~Suffolk IP1 2DX ("the County Council") in the sum of £42,310.00 (Forty Two~~
~~Thousand Three Hundred and Ten Pounds) be paid to the County Council for the~~
~~payment of which sum the Developer and the Surety bind themselves their~~
~~successors and assigns jointly and severally~~

~~IN WITNESS~~ whereof the Developer and the Surety have hereunto executed and
delivered the same on but not before this _____ day of _____ Two
thousand and _____

- ~~1. In an agreement under seal with the county council of even date made~~
~~under section 270 of the highways act 1980 ("the 1980 act") the Developer~~
~~undertook at its own expense to enter into a compensation bond, whereby~~
~~the surety shall be bound with the Developer and County Council in the~~
~~amount of Forty Two Thousand and Three Hundred and Ten Pounds~~
~~£42,310.00 which is the amount which the County Council's Executive~~
~~Director and Assistant Director of Growth, Highways and Infrastructure~~
~~(property) reasonably considers sufficient to meet the likely cost of settling~~
~~claims and connected costs under part I of the Land Compensation Act~~
~~1973.~~
- ~~2. It is intended that this Bond shall be construed as one with the said~~
~~agreement under section 270 of the 1980 Act~~

~~NOW THE CONDITION~~ of the above written Bond is such that _____

- ~~3. If the Surety has duly settled and discharged the claims made to the County~~
~~Council under part 1 of the Land Compensation Act 1973, then upon the date~~
~~which falls seven years from the point at which the last of the Highway Works~~
~~is first open to public traffic then the County Council will release the~~
~~Developer and the Surety from all subsisting obligations under the~~

41/42 FHG

~~Compensation Bond and if all duly made claims are not settled, all but an amount which the Executive Director of Growth, Highways and Infrastructure considers reasonably sufficient to settle such claims will be released;~~

~~THEN the above written Bond shall be null and void but otherwise shall remain in full force and effect~~

~~PROVIDED ALWAYS that the giving by the County Council of any extension of time for performing the said Agreement or any stipulations therein contained and on the part of the Developer to be performed or any other forgiveness or forbearance on the part of the County Council or its successors or assigns shall not in any way release the Surety from any liability under the above written Bond~~

~~Signed as a deed by _____ and _____
as attorneys for LOVELL PARTNERSHIPS LIMITED under a power of attorney~~

.....

[SIGNATURE]

~~in the presence of:~~

~~WITNESS~~

..... [SIGNATURE]

..... [NAME]

..... [ADDRESS]

.....
.....

.....

[SIGNATURE]

~~in the presence of:~~

~~WITNESS~~

.....[SIGNATURE].....

.....[NAME].....

.....[ADDRESS].....

.....

.....

~~Signed as a deed by~~.....~~as attorney for~~
~~National House Building Council under a Power of Attorney~~
~~dated [~~.....~~]~~

.....
~~As attorney for National House Building Council~~.....

~~In the presence of.~~.....

.....
~~Name of Witness~~.....~~Witness Signature~~.....

~~Occupation of Witness~~.....

~~Address of Witness~~.....

.....

SCHEDULE III

The Highways Works comprising the following works:

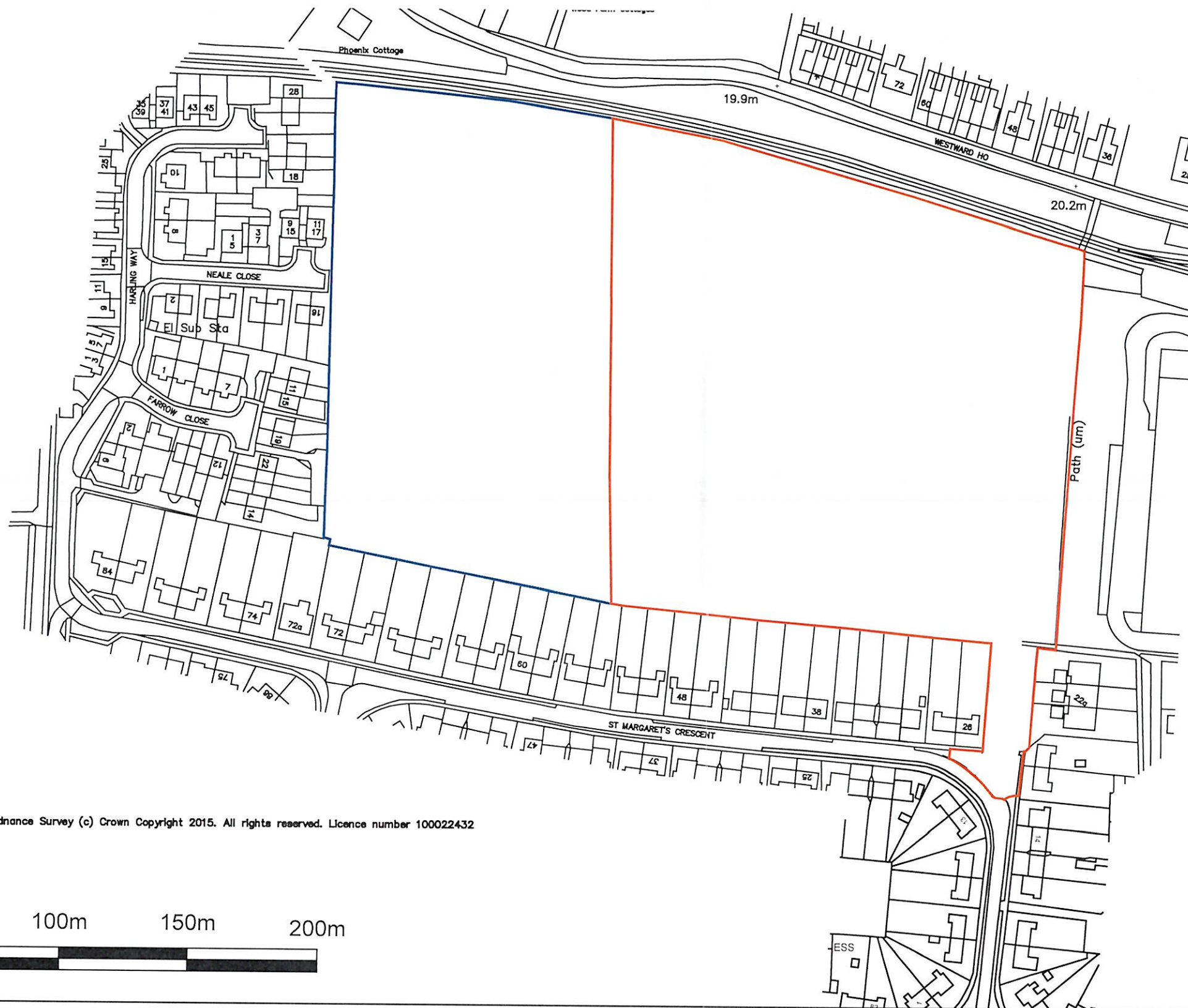
<u>Location</u>	<u>Works</u>	<u>Delivery Programme</u>
22 and 24 St Margarets Crescent and Land on the west side of Station Road and on the north side of Waterloo Avenue, Leiston, Suffolk	<u>Upgrade existing vehicular access to junction to serve Development</u> <u>Increase width of public right of way including land dedication</u>	

Timescales: The Highways Works are to be commenced within 12 (twelve) months of the date of this Agreement and completed within 2 (two) months of commencement of the Highway Works

SCHEDULE IV

Approved List of drawings

	Title	Drawing number
1.	Site Location Plan	052-18-0150 Rev P2
2.	General arrangement & external works s278 agreement plan sh1	201168_C-1016 Rev C03
3.	General arrangement & external works s278 agreement plan sh2	201168_C-1017 Rev C05
4.	General arrangement & external works land dedication plan	201168_C-1018 Rev C04
5.	Adoptable road & sewer long sections sheet 1	201168_C-2004 Rev C02
6.	Suffolk highway details s278 sheet1	201168_C-4002 Rev C03
7.	Suffolk highway details s278 sheet2	201168_C-4003 Rev C02



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0m 50m 100m 150m 200m

Scale 1:2500

WT Design Ltd
Architectural Consultants



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Burlingham Business Centre
North Burlingham
Norfolk
NR13 4TA

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e: info@wt-design.co.uk

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Do Not Scale

P2	26-02-21	Minor amendment	AC	DAG
P1	17-02-21	First Issue	AC	DAG
Rev:	Date:	Description:	Ckd:	Apr:

Project:

St Margarets Crescent,
Leiston,
Suffolk

Drawing Title:

Site Location Plan

Client:

Lovell

Scale @A4:

1:2500

Date:

02-2021

Project Number:

052-18

Drawing Number:

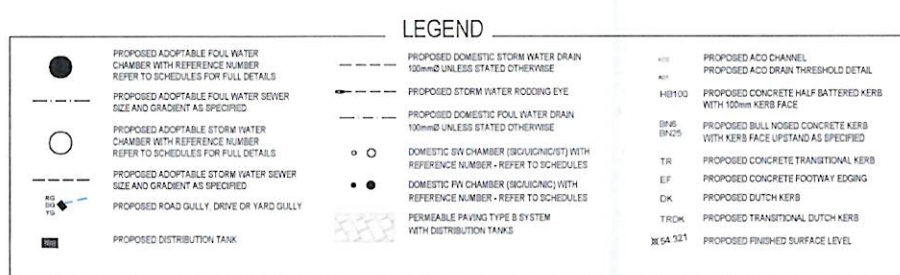
0150

Revision:

P2

Purpose of Issue:

Planning



ALL CONNECTIONS TO ADOPTABLE SEWERS TO BE MADE IN VITRIFIED CLAY ONLY. CONNECTIONS TO BE LAID SOFFIT TO SOFFIT & BE MINIMUM DIAMETERS OF 150mm

ALL ADOPTABLE SEWER WORKS TO BE DESIGNED AND CONSTRUCTED IN FULL ACCORDANCE WITH 'DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS' MARCH 2020.

THIS DRAWING IS NOT TO BE USED FOR THE PURPOSES OF SETTING OUT. SETTING OUT OF ROADS AND EXTERNAL WORKS IS TO BE TO THE WRITTEN COORDINATES SHOWN ON OTHER ROSSI LONG CONSULTING DRAWINGS. SETTING OUT FOR DWELLINGS & GARAGES IS TO BE TO DETAILS PROVIDED BY THE ARCHITECT.



NOTE: ALL HIGHWAY WORKS WITHIN THE SITE ARE SUBJECT TO A S38 AGREEMENT WITH SUFFOLK COUNTY COUNCIL.

NOTE: INTERNAL FOUL CONNECTIONS INDICATIVE ONLY. TO BE CONFIRMED BY ARCHITECT / M&E ENGINEER.

EXISTING INVERT LEVELS SHOULD BE CHECKED AND CONFIRMED BY THE CONTRACTOR BEFORE THE COMMENCEMENT OF ANY WORKS.

GENERAL

- 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 NORFOLK COUNTY COUNCIL WITH REGARD TO AGREEING APPROPRIATE METHODS OF TRAFFIC MANAGEMENT.
- THE REINSTATEMENT OF THE HIGHWAY SHALL BE CARRIED OUT FULLY IN ACCORDANCE WITH THE HAVING 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.
- 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.
- THE SURFACE COURSE ON THE ACCESS ROADS SHALL BE DEFERRED UNTIL BUILDING WORK IS SUBSTANTIALLY COMPLETE. GULLY FRAMES AND GRATES AND OTHER IRONWORK SHALL BE SET FLUSH WITH THE BINDER COURSE AND RAISED AT THE TIME THE SURFACE COURSE IS LAID.
- ALL ROAD SIGNS AND MARKINGS TO BE IN ACCORDANCE WITH THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS.
- BOTH THE DOMESTIC 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 TO MAKING INSPECTIONS AT THE APPROPRIATE STAGES OF THE WORK.
- ALL PROPRIETARY MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- PROTECTION TO DOMESTIC SEWERS: WHERE THE COVER TO PIPES UNDER TRAFFIC AREAS IS LESS THAN 900mm OR UNDER SOME TRAFFICKED AREAS IS LESS THAN 600mm THE PIPELINE SHALL BE PROTECTED WITH A MIN 150mm THICK CONCRETE SURROUND (BED TYPE Z1).
- PROTECTION TO SW HIGHWAY SEWERS: WHERE THE COVER TO PIPES UNDER TRAFFICKED OR LANDSCAPED AREAS IS LESS THAN 1200mm THE PIPELINE SHALL BE PROTECTED WITH A MIN 150mm THICK CONCRETE SURROUND (BED TYPE Z1).
- ALL ANGLIAN WATER ADOPTABLE DRAINAGE WORKS WILL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH 'DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS' MARCH 2020.
- EASEMENTS ARE TO BE PROVIDED WHERE EXISTING AND PROPOSED ANGLIAN WATER SEWERS ARE NOT LOCATED WITHIN THE PUBLIC HIGHWAY.
- PROTECTION TO ANGLIAN WATER ADOPTABLE SEWERS: WHERE THE COVER TO PIPES UNDER THE CARRIAGEWAY IS LESS THAN 1200mm OR UNDER NON TRAFFICKED AREAS IS LESS THAN 900mm THE PIPELINE SHALL BE PROTECTED WITH A 175mm THICK REINFORCED CONCRETE SLAB (BED TYPE Z3).
- ALL PIPES ENTERING OR LEAVING MANHOLES SHALL BE LAID WITH THEIR SOFFITS LEVEL, UNLESS SHOWN OR AGREED OTHERWISE.
- ALL DOMESTIC SEWERS SHALL BE 100/110mm DIA CLAYWARE OR PVC UNLESS STATED OTHERWISE. 100mm STORM SEWERS SHALL BE LAID AT A GRADIENT NO FLATTER THAN 1 IN 100. 150mm STORM SEWERS NO FLATTER THAN 1 IN 150 AND 225mm NO FLATTER THAN 1 IN 210. 100mm FOUL SEWERS SHALL BE LAID AT A GRADIENT NO FLATTER THAN 1 IN 80 IF AT LEAST 1 VGD IS CONNECTED OR 1 IN 40 IF NO VC IS CONNECTED. 150mm FOUL SEWERS NO FLATTER THAN 1 IN 150.
- REFER TO THE ARCHITECT'S AND ARBOCULTURIST DRAWINGS FOR LANDSCAPING DETAILS AND FOR EXISTING TREES AND HEDGES THAT ARE TO BE REMOVED. 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.
- ALL SETTING OUT IS TO BE UNDERTAKEN USING WRITTEN COORDINATES PROVIDED ON DRAWINGS. UNDER NO CIRCUMSTANCES SHOULD SETTING OUT INFORMATION BE GROUNDWORK SCALED OR MEASURED DIMENSIONS FROM THE DRAWINGS. THIS DRAWING IS TO BE USED ONLY TO PROVIDE THE INFORMATION INDICATED IN THE TITLE AND AS SHOWN ON HARD COPIES. ANY USE AND MANIPULATION OF ELECTRONIC COPIES OF THIS DRAWING FOR ANY PURPOSE OTHER THAN AS SHOWN ON THE DRAWINGS IS THE USER'S OWN RISK.
- EXISTING & PROPOSED LANDSCAPING PROPOSALS MUST BE IN ACCORDANCE WITH DCG IN RELATION TO PROPOSED & EXISTING SEWERS. THIS IS:
1.0m = CLEAR ZONE EACH SIDE OF SEWER CENTRE LINE
1.0m - 3.0m = LOW LYING SHRUBS/BUSHES ONLY
MINIMUM 6.0m = MOST TREES SPECIES
MINIMUM 12.0m = WILLOW AND POPLAR TREES

INSPECTIONS REQUIRED BY THE HIGHWAYS INSPECTOR

THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS ADVANCE NOTICE TO SUFFOLK COUNTY COUNCIL TO ALLOW THE INSPECTOR PROPER INSPECTION AND CHECKING OF THE WORKS AT THE FOLLOWING DESIGNATED STAGES:

- 1) START OF THE WORKS
- 2) BEFORE BACK FILLING ANY TRENCHES UNDER NEW HIGHWAY
- 3) COMPLETION OF FORMATION
- 4) COMPLETION OF SUB-BASE
- 5) LAYING OF BASE
- 6) LAYING OF BINDER COURSE
- 7) LAYING OF SURFACE COURSE

STREET LIGHTING LEGEND:

- EXISTING LIGHTING UNITS TO REMAIN
- SUPPLY AND INSTALL NEW 6M GALVANIZED TUBULAR STEEL LIGHTING COLUMN COMPLETE WITH GLASS FLAKE ROOT TREATMENT AND TWO POST TOP MOUNTED C.U.PHOSCO E850 28LED 2.48Klm (HIGH POWER VERSION) WARM WHITE (3000K) LED LANTERN WITH P.A.P OPTIC SETTING. COMPLETE WITH DIMMABLE ELECTRONIC CONTROL GEAR, FACTORY FITTED 7-PIN NEMA SOCKET, 1-PART PHOTOCELL (TELESENZA TELECELL UNIT) AND CHARLES ENDIRECT L3 DOUBLE POLE ISOLATOR IN BASE OF COLUMN.
- # NOTE: TELESENZA TELECELLS AND SUFFOLK COUNTY COUNCIL IDENTIFICATION NUMBER PLATES ARE TO BE SUPPLIED AND INSTALLED ON ALL STREET LIGHTING LANTERNS AND ILLUMINATED SIGNS BY SCC'S INCUMBENT STREET LIGHTING CONTRACTOR, UPON ADOPTION, AT DEVELOPERS EXPENSE, (APPROXIMATELY £124 PER LIGHTING UNIT).
- PLEASE ENSURE CORRECT COLOUR OF THE STREET LIGHT

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

NOTES: THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER PRODUCED FOR INCLUSION IN THE HEALTH AND SAFETY PLAN. THE HAZARDS NOTED ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACED BY A COMPETENT CONTRACTOR WHEN DEALING WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING.

- DEEP AND UNSTABLE EXCAVATIONS.
- OVERHEAD ELECTRICITY CABLES.
- UNKNOWN BURIED SERVICES.
- WORKING IN LIVE CARRIAGEWAY.
- PUBLIC RIGHT OF WAY THROUGH SITE.

MAINTENANCE/CLEANING RISKS

- NO SIGNIFICANT RISKS.

DEMOLITION RISKS

- NO SIGNIFICANT RISKS.

NOTE:

- DO NOT SCALE, IF IN DOUBT ASK.
 - 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 OTHER SPECIALISTS DRAWINGS.
 - ANY DISCREPANCIES FOUND ON THIS OR ANY OTHER DRAWINGS ARE TO BE REPORTED TO AND RESOLVED BY ROSSI LONG CONSULTING BEFORE THE COMMENCEMENT OF ANY WORK RELEVANT TO THE DISCREPANCY.
 - THE PRINCIPAL CONTRACTOR IS TO PROVIDE FULLY DESIGNED PROPPING/SUPPORTING TO FACILITATE THE WORKS. ALL PROPPING & BRACING IS TO BE ADEQUATELY FOUND TO ENSURE THE STABILITY/INTEGRITY OF THE EXISTING PROPOSED STRUCTURES AND 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 ROSSI LONG CONSULTING.
 - THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ROSSI LONG CONSULTING'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ROSSI LONG CONSULTING 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 DIMENSIONS SHALL BE USED.
- © ROSSI LONG CONSULTING 2022.
- DIMENSIONS ARE STATED IN MILLIMETRES UNLESS SHOWN OTHERWISE. CHAINAGES ARE STATED IN METRES. LEVELS ARE IN METRES AND RELATED TO ORDNANCE DATUM.
 - THE CONTRACTOR IS TO VERIFY THE ACCURACY OF INFORMATION PROVIDED BY OTHERS.
 - 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.
 - 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 PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORK. THE RESULTS OF THE INVESTIGATIONS SHALL BE CONFERRED TO ROSSI LONG CONSULTING SO THAT THE DESIGN CAN BE VERIFIED.
 - THIS DRAWING IS BASED ON A SITE LAYOUT BY WIT DESIGN LTD (DRAWING REF 052-18-0300 P23) & ON A TOPOGRAPHICAL SURVEY BY SURVEY SOLUTIONS (REF 17016ea01-05)
 - HIGHWAYS TO BE OFFERED FOR ADOPTION TO SUFFOLK COUNTY COUNCIL UNDER A S38 AGREEMENT. SERVICES TO BE PROVIDED BY SUFFOLK COUNTY COUNCIL.

REV	DESCRIPTION	DATE	BY	AUTH
C02	FOOTWAY CROSSOVER REMOVED.	12.05.23	GMA	ML
C01	CONSTRUCTION ISSUE.	27.03.23	EF	GMA
P04	S24 HYDROBRAKE AMENDED.	15.03.23	GMA	ML
P03	S21 TO S25 AMENDED.	21.02.23	GMA	ML
P02	S38/S278 & LLFA UPDATES.	02.02.23	GMA	ML
P01	PRELIMINARY ISSUE.	28.09.22	GMA	ML

Rossi Long Consulting

16 Meridian Way, Norwich, Norfolk, NR7 0TA

S LTD

SCENT

GENERAL ARRANGEMENT & EXTERNAL WORKS

5278 AGREEMENT PLAN - SH1

DRAWN	AUTHORISED	DATE	SCALE
GMA	ML	SEPT 22	1:100
STABILITY			
CONSTRUCTION			
PROJECT NO.	DRAWING FIELD.	DRAWING NO.	REV
01168		C-1016	C03

LEGEND

PROPOSED ADOPTABLE FOUL WATER CHAMBER WITH REFERENCE NUMBER REFER TO SCHEDULES FOR FULL DETAILS

PROPOSED ADOPTABLE STORM WATER CHAMBER WITH REFERENCE NUMBER REFER TO SCHEDULES FOR FULL DETAILS

PROPOSED ADOPTABLE STORM WATER SEWER SIZE AND GRADIENT AS SPECIFIED

PROPOSED ROAD GULLY DRIVE OR YARD GULLY

PROPOSED DISTRIBUTION TANK

PROPOSED DOMESTIC STORM WATER DRAIN 100mm UNLESS STATED OTHERWISE

PROPOSED STORM WATER RISING EYE 100mm UNLESS STATED OTHERWISE

DOMESTIC 50mm CHAMBER (SCHEDULED) WITH REFERENCE NUMBER - REFER TO SCHEDULES

DOMESTIC 150mm CHAMBER (SCHEDULED) WITH REFERENCE NUMBER - REFER TO SCHEDULES

PERMEABLE PAVING TYPE B SYSTEM WITH DISTRIBUTION TANKS

PROPOSED ADO CHANNEL

PROPOSED ADO DRAIN THRESHOLD DETAIL

PROPOSED CONCRETE HALF BATTERED KERB WITH 100mm KERB FACE

PROPOSED BULL NOSED CONCRETE KERB WITH KERB FACE UPSTAND AS SPECIFIED

PROPOSED CONCRETE TRANSITIONAL KERB

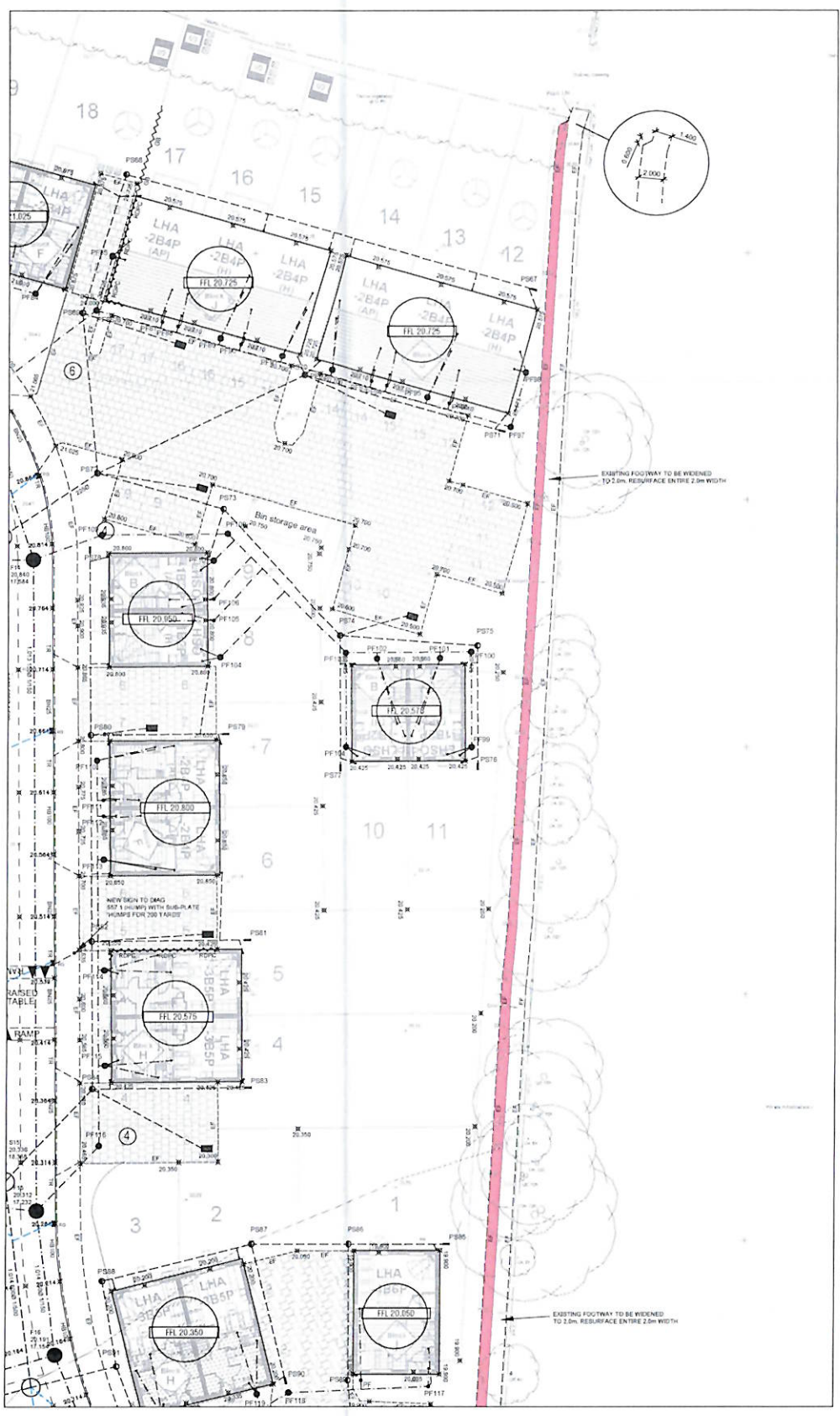
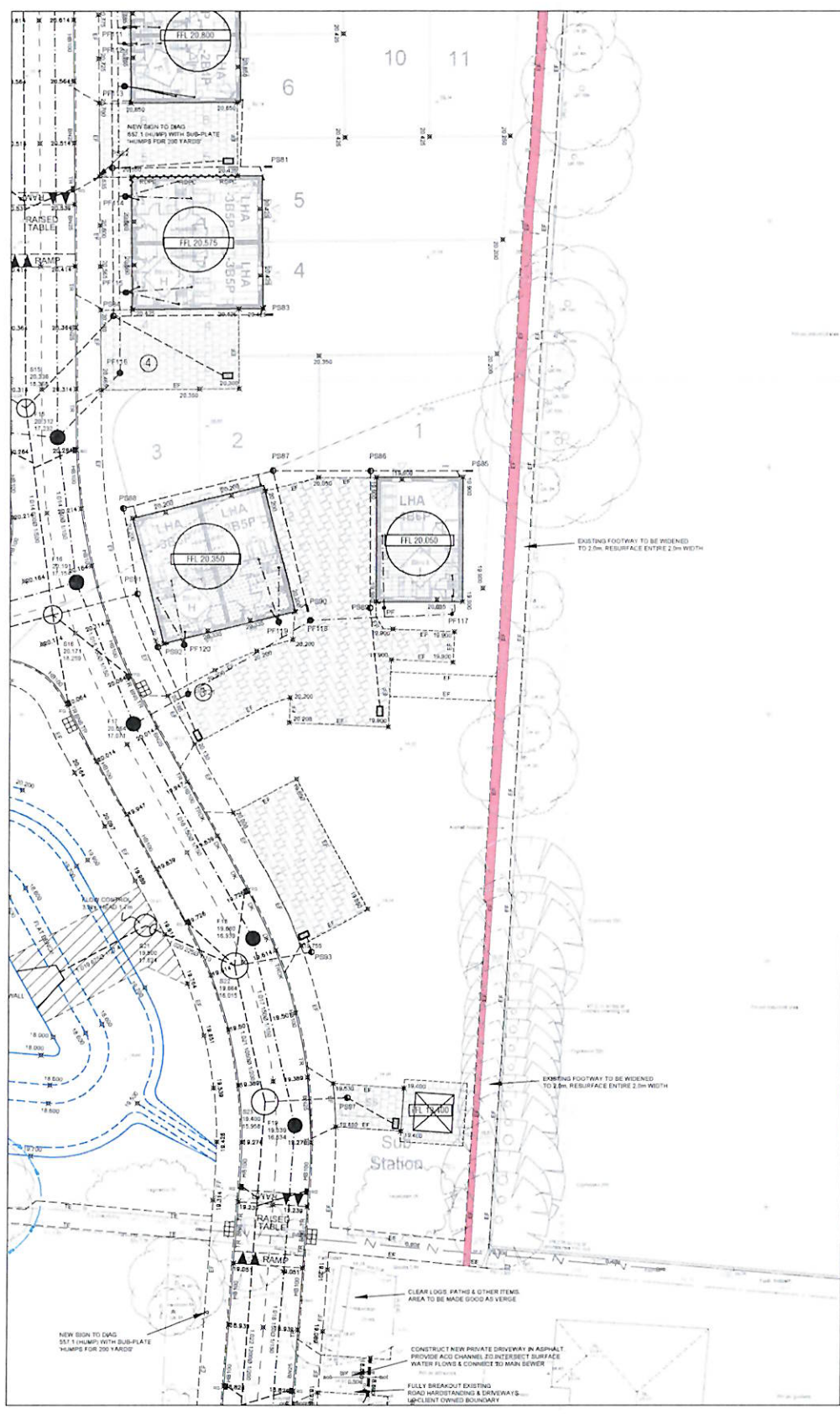
PROPOSED CONCRETE FOOTWAY EDGING

PROPOSED DUTCH KERB

PROPOSED TRANSITIONAL DUTCH KERB

PROPOSED FINISHED SURFACE LEVEL

PROPOSED FLUSH CHANNEL KERB



- GENERAL
13. 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 LAISE WITH NORFOLK COUNTY COUNCIL WITH REGARD TO AGREEING APPROPRIATE METHODS OF TRAFFIC MANAGEMENT.
14. THE REINSTATEMENT OF THE HIGHWAY SHALL BE CARRIED OUT FULLY IN ACCORDANCE WITH THE HAUG SPECIFICATION FOR THE REINSTATEMENT OF CHANGING IN HIGHWAYS. REINSTATEMENT SHALL BE PERMANENT (ON FIRST VISIT). TRENCH BACKFILL MATERIAL SHALL BE TYPE 1 GRANULAR SUB-BASE.
15. 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.
16. THE SURFACE COURSE ON THE ACCESS ROADS SHALL BE DEFERRED UNTIL BUILDING WORK IS SUBSTANTIALLY COMPLETE. GULLY FRAMES AND GRATES AND OTHER IRONWORK SHALL BE SET FLUSH WITH THE BINDER COURSE AND RAISED AT THE TIME THE SURFACE COURSE IS LAID.
17. ALL ROAD SIGNS AND MARKINGS TO BE IN ACCORDANCE WITH THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS.
18. BOTH THE DOMESTIC FOUL AND STORM WATER DRAINAGE SHALL BE SUBJECT TO INSPECTIONS BY THE LOCAL BUILDING CONTROL OFFICER. THE CONTRACTOR SHALL LAISE WITH THE BUILDING INSPECTOR WITH REGARD TO MAKING INSPECTIONS AT THE APPROPRIATE STAGES OF THE WORK.
19. ALL PROPRIETARY MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
20. PROTECTION TO DOMESTIC SEWERS WHERE THE COVER TO PIPES UNDER TRAFFIC AREAS IS LESS THAN 900mm OR UNDER NON TRAFFIC AREAS IS LESS THAN 600mm THE PIPELINE SHALL BE PROTECTED WITH A MIN. 150mm THICK CONCRETE SURROUND (BED TYPE Z1).
21. PROTECTION TO 50mm HIGHWAY SEWERS WHERE THE COVER TO PIPES UNDER TRAFFIC OR LANDSCAPED AREAS IS LESS THAN 1200mm THE PIPELINE SHALL BE PROTECTED WITH A MIN 150mm THICK CONCRETE SURROUND (BED TYPE Z1).
22. ALL ANGLIAN WATER ADOPTABLE DRAINAGE WORKS WILL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS MARCH 2020.
23. EASEMENTS ARE TO BE PROVIDED WHERE EXISTING AND PROPOSED ANGLIAN WATER SEWERS ARE NOT LOCATED WITHIN THE PUBLIC HIGHWAY.
24. PROTECTION TO ANGLIAN WATER ADOPTABLE SEWERS WHERE THE COVER TO PIPES UNDER THE CARRIAGEWAY IS LESS THAN 1200mm OR UNDER NON TRAFFIC AREAS IS LESS THAN 900mm THE PIPELINE SHALL BE PROTECTED WITH A 175mm THICK REINFORCED CONCRETE SLAB (BED TYPE Z3).
25. ALL PIPES ENTERING OR LEAVING MANHOLES SHALL BE LAID WITH THEIR SOFFITS LEVEL UNLESS SHOWN OR AGREED OTHERWISE.
26. ALL DOMESTIC SEWERS SHALL BE 100/110mm DIA CLAYWARE OR PVC UNLESS STATED OTHERWISE. 100mm DIA STORM SEWERS SHALL BE LAID AT A GRADIENT NO FLATTER THAN 1 IN 100. 150mm DIA STORM SEWERS NO FLATTER THAN 1 IN 150 AND 225mm DIA NO FLATTER THAN 1 IN 210. 100mm DIA FOUL SEWERS SHALL BE LAID AT A GRADIENT NO FLATTER THAN 1 IN 80 IF AT LEAST 1 WC IS CONNECTED OR 1 IN 40 IF NO WC IS CONNECTED. 150mm DIA FOUL SEWERS NO FLATTER THAN 1 IN 150.
27. REFER TO THE ARCHITECT'S AND ARBOCULTURIST DRAWINGS FOR LANDSCAPING DETAILS AND FOR EXISTING TREES AND HEDGES THAT ARE TO BE REMOVED. 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.
28. ALL SETTING OUT IS TO BE UNDERTAKEN USING WRITTEN COORDINATES PROVIDED ON DRAWINGS. UNDER NO CIRCUMSTANCES SHOULD SETTING OUT INFORMATION BE GROOMED USING SCALED OR MEASURED DIMENSIONS FROM THE DRAWINGS. THIS DRAWING IS TO BE USED ONLY TO PROVIDE THE INFORMATION INDICATED IN THE TITLE AND AS SHOWN ON HARD COPIES. ANY USE AND MANIPULATION OF ELECTRONIC COPIES OF THIS DRAWING FOR WHATEVER PURPOSE IS DONE SO ENTIRELY AT THE USER'S OWN RISK.
29. EXISTING & PROPOSED LANDSCAPING PROPOSALS MUST BE IN ACCORDANCE WITH 'DCG' IN RELATION TO PROPOSED & EXISTING SEWERS. THIS IS:
1.0m = CLEAR ZONE EACH SIDE OF SEWER CENTRE LINE.
1.0m + 3.0m = LOW LYING SHRUBS/BUSHES ONLY.
MINIMUM 6.0m = MOST TREES SPECIES.
MINIMUM 12.0m = WILLOW AND POPLAR TREES

ALL CONNECTIONS TO ADOPTABLE SEWERS TO BE MADE IN VITRIFIED CLAY ONLY. CONNECTIONS TO BE LAID SOFFIT TO SOFFIT & BE MINIMUM DIAMETER OF 100mm

ALL ADOPTABLE SEWER WORKS TO BE DESIGNED AND CONSTRUCTED IN FULL ACCORDANCE WITH DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS MARCH 2020.

THIS DRAWING IS NOT TO BE USED FOR THE PURPOSES OF SETTING OUT. SETTING OUT OF ROADS AND EXTERNAL WORKS IS TO BE TO THE WRITTEN COORDINATES SHOWN ON OTHER ROSSI LONG CONSULTING DRAWINGS. SETTING OUT FOR DWELLINGS & GARAGES IS TO BE TO DETAILS PROVIDED BY THE ARCHITECT.

NOTE: INTERNAL FOUL CONNECTIONS INDICATIVE ONLY. TO BE CONFIRMED BY ARCHITECT / M&E ENGINEER.

EXISTING INVERT LEVELS SHOULD BE CHECKED AND CONFIRMED BY THE CONTRACTOR BEFORE THE COMMENCEMENT OF ANY WORKS.

INSPECTIONS REQUIRED BY THE HIGHWAYS INSPECTOR
THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS ADVANCE NOTICE TO NORFOLK COUNTY COUNCIL, TO ALLOW THE INSPECTOR PROPER INSPECTION AND CHECKING OF THE WORKS AT THE FOLLOWING DESIGNATED STAGES

- 1) START OF THE WORK
2) BEFORE BACK FILL
3) COMPLETION OF FO
4) COMPLETION OF SU
5) LAYING OF BASE
6) LAYING OF BINDER
7) LAYING OF SURFACE

NOTE: ALL SITE ARE WITH SUFI

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX
NOTES: THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER PRODUCED FOR INCLUSION IN THE HEALTH AND SAFETY PLAN. THE HAZARDS NOTED ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACED BY A COMPETENT CONTRACTOR WHEN DEALING WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING.

- DEEP AND UNSTABLE EXCAVATIONS.
OVERHEAD ELECTRICITY CABLES.
UNKNOWN BURIED SERVICES.
WORKING IN LIVE CARRIAGEWAY.
PUBLIC RIGHT OF WAY THROUGH SITE.

MAINTENANCE/CLEANING RISKS
• NO SIGNIFICANT RISKS.

DEMOLITION RISKS
• NO SIGNIFICANT RISKS.

- NOTE
1. DO NOT SCALE. IF IN DOUBT ASK.
2. 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 OTHER SPECIALISTS DRAWINGS.
3. ANY DISCREPANCIES FOUND ON THIS OR ANY OTHER DRAWINGS ARE TO BE REPORTED TO AND RESOLVED BY ROSSI LONG CONSULTING BEFORE THE COMMENCEMENT OF ANY WORK RELEVANT TO THE DISCREPANCY.
4. 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 AND 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 ROSSI LONG CONSULTING.
5. THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ROSSI LONG CONSULTING'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ROSSI LONG CONSULTING 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 DIMENSIONS SHALL BE USED.
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6. DIMENSIONS ARE STATED IN MILLIMETRES 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 LAISE 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 INVERT LEVELS OF ALL EXISTING SEWERS, DRAINS, DITCHES, TANKS OR OTHER FEATURES & APPARATUS WHERE A NEW CONNECTION IS TO BE MADE SHALL HAVE THEIR PRECISE POSITION AND LEVEL CONFIRMED ON SITE BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORK. THE RESULTS OF THE INVESTIGATIONS SHALL BE CONFERRED TO ROSSI LONG CONSULTING SO THAT THE DESIGN CAN BE VERIFIED.
11. THIS DRAWING IS BASED ON A SITE LAYOUT BY WT DESIGN LTD (DRAWING REF 052-16-0300 P23) & ON A TOPOGRAPHICAL SURVEY BY SURVEY SOLUTIONS (REF 17016a-01-05)

NTY COUNCIL		OPTION TO	
REV	DESCRIPTION	DATE	BY
C02	S38 COMMENTS ADDRESSED.	26.05.23	GMA ML
C01	CONSTRUCTION ISSUE.	27.03.23	EF GMA
P05	BASE AMENDED.	20.03.23	GMA ML
P04	S21 TO S25 AMENDED.	21.02.23	GMA ML
P03	S36/S27B & LLFA UPDATES.	02.02.23	GMA ML
P02	PRIVATE DRAINAGE ADDED.	13.01.23	EF GMA
P01	PRELIMINARY ISSUE.	28.09.22	GMA ML

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ARTNERSHIPS LTD

ARET'S CRESCENT

GENERAL ARRANGEMENT & INTERNAL WORKS AND DEDICATION PLAN

AUTHORISED	DATE	SCALE AT A1
ML	SEPT 22	1:250

CT NO.	DRAWING NO.	REV
168	C-1018	C04

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION RISK
NOTES: THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER PRODUCED FOR INCLUSION IN THE HEALTH AND SAFETY PLAN. THE HAZARDS NOTED ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACED BY A COMPETENT CONTRACTOR WHEN DEALING WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING.

CONSTRUCTION RISKS

- NO SIGNIFICANT RISKS.

MAINTENANCE/CLEANING/IN USE RISKS

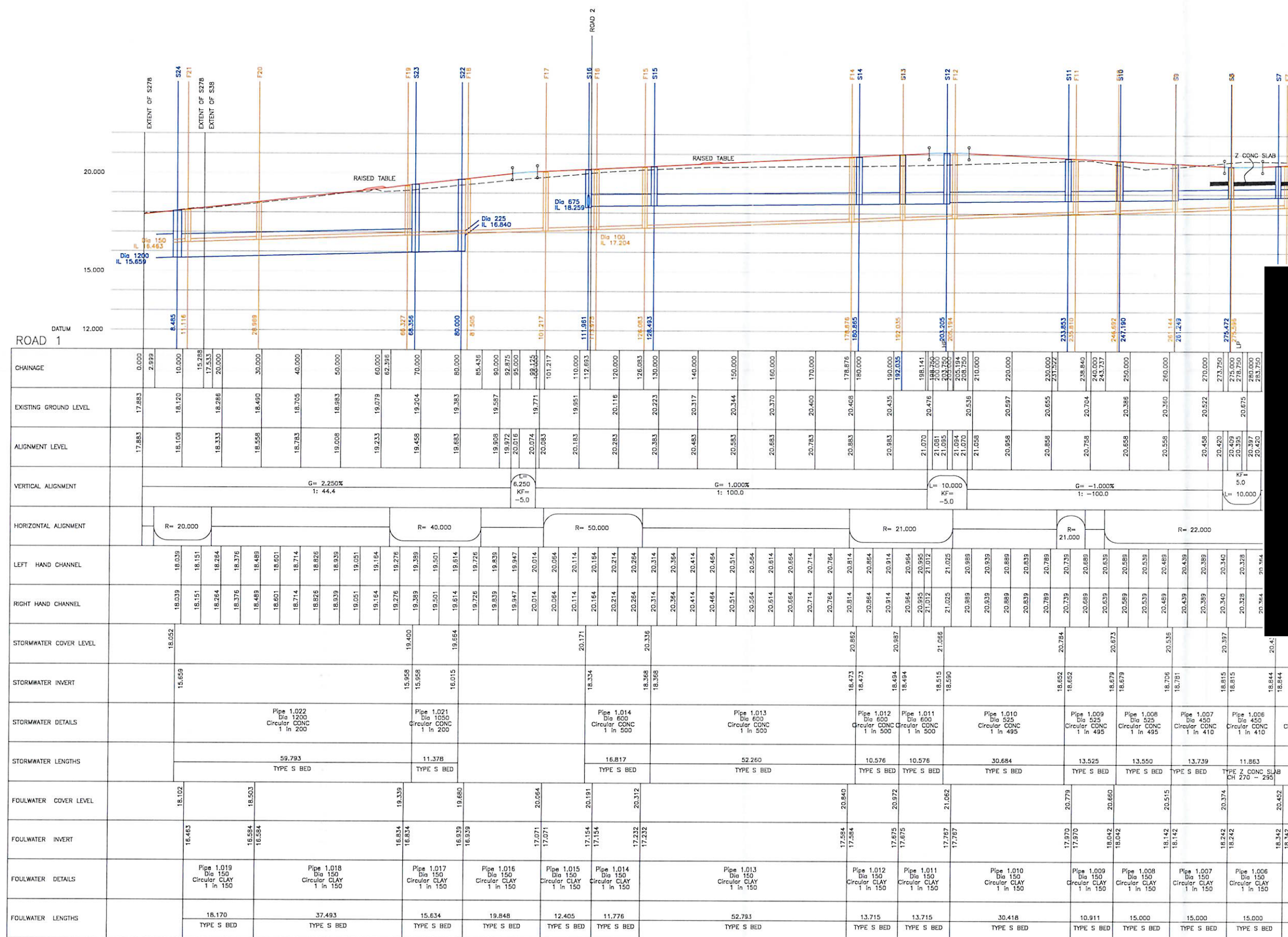
- NO SIGNIFICANT RISKS.

DEMOLITION RISKS

- NO SIGNIFICANT RISKS.

NOTE

1. DO NOT SCALE, IF IN DOUBT ASK.
2. 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 OTHER SPECIALIST'S DRAWINGS.
3. ANY DISCREPANCIES FOUND ON THIS OR ANY OTHER DRAWINGS ARE TO BE REPORTED TO AND RESOLVED BY ROSSI LONG CONSULTING BEFORE THE COMMENCEMENT OF ANY WORK RELEVANT TO THE DISCREPANCY.
4. THE PRINCIPAL CONTRACTOR IS TO PROVIDE FULLY DESIGNED PROPPING/SUPPORTING TO FACILITATE THE WORKS. ALL PROPPING & BRACING IS TO BE ADEQUATELY FOUND TO ENSURE THE STABILITY/INTEGRITY OF THE EXISTING PROPOSED STRUCTURES AND/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 ROSSI LONG CONSULTING.
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C01	CONSTRUCTION ISSUE.	27.03.23	EF	GMA
P03	S21 TO S25 AMENDED.	21.02.23	GMA	ML
P02	S35/S578 EXTENTS ADDED & S22-S24 AMENDED.	02.02.23	GMA	ML
P01	PRELIMINARY ISSUE.	XXXXX	GMA	ML

REV	DESCRIPTION	DATE	BY	AUTH
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CLIENT
LOVELL PARTNERSHIPS LTD

PROJECT
**ST. MARGARET'S CRESCENT
LEISTON
SUFFOLK**

TITLE
**ADOPTABLE ROAD & SEWER
LONG SECTIONS
SHEET 1**

DRAWN	AUTHORISED	DATE	SCALE AT A1
GMA	ML	SEPT 22	NOT TO SCALE

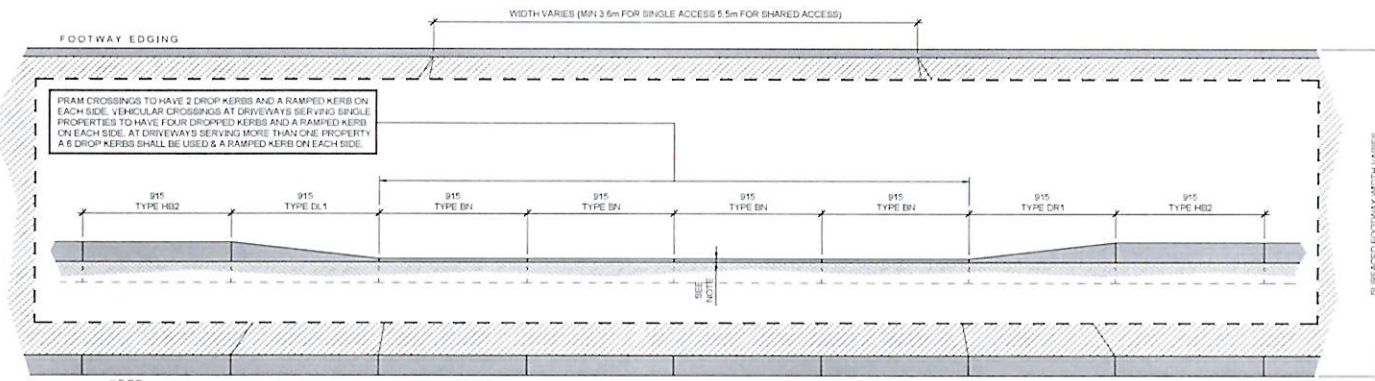
SUITABILITY
A - CONSTRUCTION

PROJECT NO.	DRAWING FIELDS.	DRAWING NO.	REV
201168		C-2004	C02

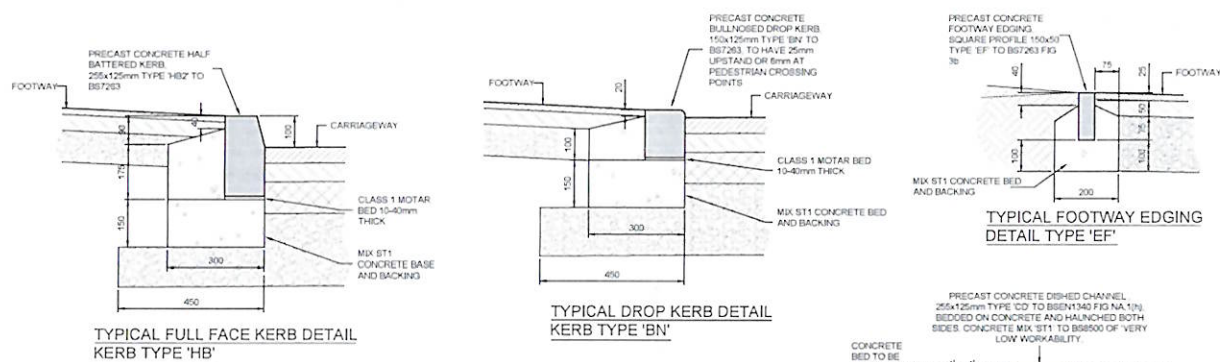
	LAYER	SPECIFICATION	COMPACTED THICKNESS (mm)
ASPHALT CARRIAGEWAY	1 SURFACE COURSE	HRA 3014 F SURF 40/60 HOT ROLLED ASPHALT SURFACE COURSE TO PD691 2007, TABLE C20 COL 4 TYPE F DESIGN MIX CONTAINING 30% COARSE AGGREGATE OF CRUSHED ROCK WITH A MAXIMUM AGGREGATE SIZE OF 14mm. A TYPE F FINE AGGREGATE OF CRUSHED ROCK AND A 40/60 PENETRATION GRADE BITUMEN BINDER. SURFACE TO HAVE PRE-CAST CHIPPINGS 20mm NOM SIZE, WITH MIN P.V. OF 45, ROLLED IN TO GIVE A TEXTURE DEPTH OF 1.2mm (MEASURED BY SAND PATCH METHOD). CHANNEL BOARDS TO BE USED TO GIVE A CHIPPING FREE CHANNEL.	50
	2 BINDER COURSE	HRA 5014 B IN 40/60 HOT ROLLED ASPHALT BINDER COURSE TO PD691 2007, TABLE C1 MIX CONTAINING 30% COARSE AGGREGATE WITH A MAXIMUM AGGREGATE SIZE OF 14mm AND A 40/60 PENETRATION GRADE BITUMEN BINDER.	50
	3 BASE	AC 32 DENSE BASE 70/100 DENSE ASPHALT CONCRETE BASE TO PD691 2007 AND BS EN 1118-1 CONTAINING A MAXIMUM AGGREGATE SIZE OF 32mm AND A 70/100 PENETRATION GRADE BITUMEN BINDER.	120
	4 SUB-BASE	GRANULAR SUB-BASE TYPE 1 TO CLAUSE 807, CERTIFIED AS NON-FROST SUSCEPTIBLE. SPREAD EVENLY ON THE FORMATION IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS. COMPACTION TO CLAUSE 807 TO ACHIEVE A MINIMUM CBR VALUE OF 30%.	200
	5 CAPPING	CLASS 6/1 OR 6/2 CAPPING MATERIAL TO TABLE 6.1 AND CLASS 6/3 COMPACTED IN LAYERS IN ACCORDANCE WITH TABLE 6.1.	800
ASPHALT FTWAY	6 SURFACE COURSE	AC 6 DENSE SURF 100/150 DENSE ASPHALT CONCRETE SURFACE COURSE TO PD691 2007 AND BS EN 1118-1 CONTAINING A MAXIMUM AGGREGATE SIZE OF 6mm AND A 100/150 PENETRATION GRADE BITUMEN BINDER.	20
	7 BINDER COURSE	AC 20 DENSE B IN 160/220 DENSE ASPHALT CONCRETE BINDER COURSE TO PD691 2007 AND BS EN 1118-1 CONTAINING A MAXIMUM AGGREGATE SIZE OF 20mm AND A 160/220 PENETRATION GRADE BITUMEN BINDER.	50
	8 SUB-BASE	GRANULAR SUB-BASE TYPE 1 TO CLAUSE 807, CERTIFIED AS NON-FROST SUSCEPTIBLE. SPREAD EVENLY ON THE FORMATION AND COMPACTED. FORMATION TO BE TREATED WITH AN APPROVED HERBICIDE PRIOR TO LAYING SUB-BASE. A THERMALLY BONDING NON-WOVEN WEED CONTROL FABRIC SHALL BE LAID OVER THE SUB-BASE, BENEATH THE BINDER COURSE.	100
	9 SOFT MARGIN	CLEAN, FRIABLE TOPSOIL, FREE FROM WEEDS, COARSE GRASS AND STONES, LEVELLED AND RAKED TO A FINE 15mm MARGIN TO BE SEEDED WITH APPROVED GRASS SEED MIX AT RATE OF 20g/m ² . TOPSOIL TO BE TREATED WITH APPROVED HERBICIDE AND PRE-SEEDING FERTILIZER APPLIED PRIOR TO SEEDING.	100-150

- NOTES
- HIGHWAYS AGENCY SPECIFICATION FOR HIGHWAY WORKS.
 - CONSTRUCTION THICKNESSES FOR PROVEN ALTERNATIVE SUBGRADE CBR VALUES.
 - WHERE CBR VALUE IS LESS THAN 10% SPECIAL ENGINEERING CONSIDERATIONS WILL BE REQUIRED.
 - SUB-BASE TO BE THICKENED OR CAPPING LAYER TO BE USED TO GIVE A TOTAL CONSTRUCTION DEPTH OF CARRIAGEWAY OF 450mm WHERE SUB-GRADE IS FROST SUSCEPTIBLE.
 - SUB-BASE TO BE THICKENED AS INDICATED UNDER VEHICULAR CROSSINGS. ON CLAY SUB-GRADES THE SUB-BASE THICKNESS IS TO BE INCREASED BY 75mm.
 - BITUMEN GRADES TO COMPLY WITH EN12591 WHICH REPLACES BS3906. NEW GRADES OF 40/60, 100/150 AND 160/220 PEN REPLACE THE FORMER BS GRADES OF 50, 100 AND 200 PEN.
 - DESIGN IS BASED ON A CBR VALUE OF 3% AS ADVISED IN THE HARRISON'S INVESTIGATION REPORT 0425469 JANUARY 2023.

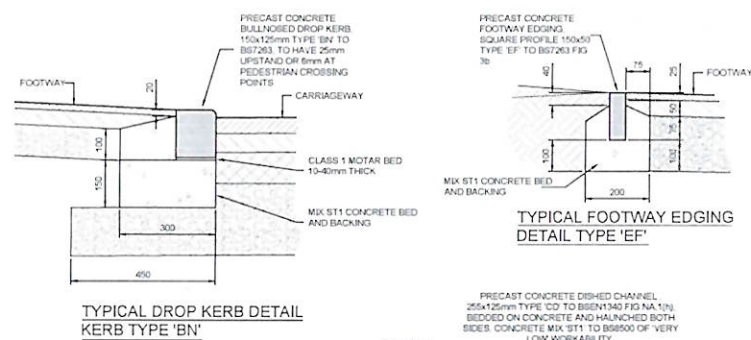
HIGHWAY CONSTRUCTION SPECIFICATIONS



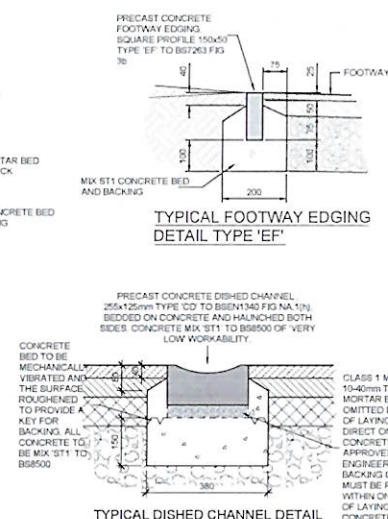
TYPICAL DROP KERB DETAIL AT VEHICULAR AND PRAM CROSSINGS ON FOOTWAYS



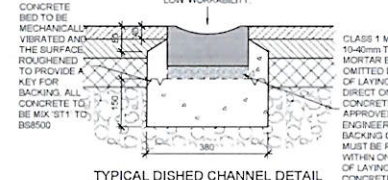
TYPICAL FULL FACE KERB DETAIL KERB TYPE 'HB'



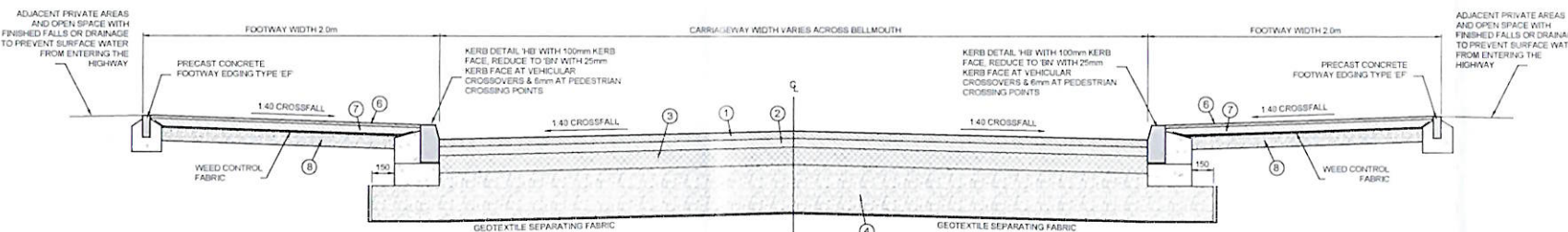
TYPICAL DROP KERB DETAIL KERB TYPE 'BN'



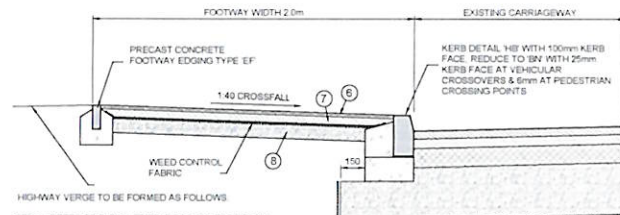
TYPICAL FOOTWAY EDGING DETAIL TYPE 'EF'



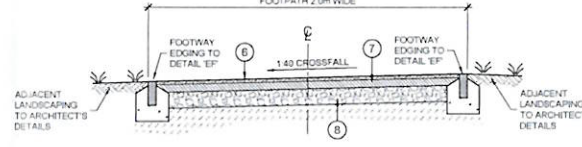
TYPICAL DISH CHANNEL DETAIL



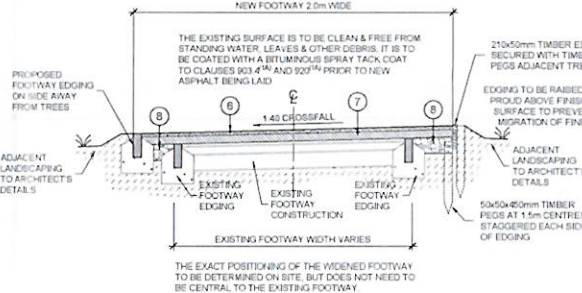
TYPICAL CONSTRUCTION DETAIL FOR S278 WORKS - BELLMOUTH



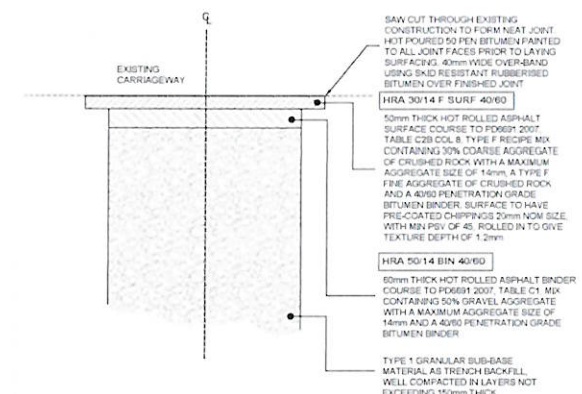
TYPICAL CONSTRUCTION DETAIL FOR S278 WORKS - NEW FOOTWAY



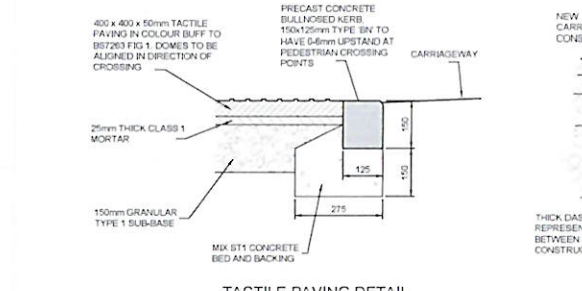
TYPICAL CROSS SECTION AND CONSTRUCTION DETAIL FOR FOOTPATH



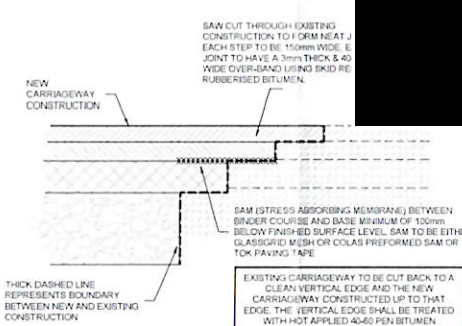
TYPICAL CROSS SECTION OF EASTERN BOUNDARY FOOTPATH (WIDENED AND OVERLAYED)



TRENCH REINSTATEMENT IN EXISTING CARRIAGEWAY



TACTILE PAVING DETAIL



STEPPED CONSTRUCTION DETAIL FOR JOINING WITH EXISTING HIGHWAY

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX
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- OVERHEAD ELECTRICITY CABLES.
- UNKNOWN BURIED SERVICES.
- WORKING IN LIVE CARRIAGEWAY.
- PUBLIC RIGHT OF WAY THROUGH SITE.

MAINTENANCE/CLEANING RISKS

- NO SIGNIFICANT RISKS.

DEMOLITION RISKS

- NO SIGNIFICANT RISKS.

NOTE

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6. DIMENSIONS ARE STATED IN MILLIMETRES 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.

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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 INVERT LEVELS OF ALL EXISTING SEWERS, DRAINS, DITCHES, TANKS OR OTHER FEATURES & APPARATUS WHERE A NEW CONNECTION IS TO BE MADE SHALL HAVE THEIR PRECISE POSITION AND LEVEL CONFIRMED ON SITE BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORK. THE RESULTS OF THE INVESTIGATIONS SHALL BE REFERRED TO ROSSI LONG CONSULTING SO THAT THE DESIGN CAN BE VERIFIED.

11. THIS DRAWING IS BASED ON A SITE LAYOUT BY WT DESIGN LTD (DRAWING REF 02-18-0300 P23) & ON A TOPOGRAPHICAL SURVEY BY SURVEY SOLUTIONS (REF 170166-01-05)

DESCRIPTION	DATE	BY	AUTH
CONSTRUCTION ISSUE.	27.03.23	EF	GMA
78 COMMENTS ADDRESSED.	01.02.23	GMA	ML
REVISIONS	28.09.22	GMA	ML
DESCRIPTION	DATE	BY	AUTH

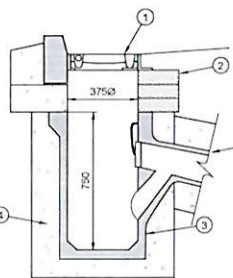
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ELL PARTNERSHIPS LTD

MARGARET'S CRESCENT
SUFFOLK

SUFFOLK HIGHWAY
CONSTRUCTION DETAILS
S278 SHEET 1

DRAWN	AUTHORISED	DATE	SCALE AT 1
GMA	ML	SEPT 22	NTS
SUITABILITY	PROJECT NO.	DRAWING FIELD.	DRAWING NO.
A - CONSTRUCTION	201168		C-4002 C03



NOTE:
WHERE THE TOTAL ROAD CONSTRUCTION DEPTH EXCEEDS 450mm AND THE GULLY CONNECTION PIPE PASSES UNDER THE CARRIAGEWAY MORE THAN THREE COURSES OF BRICKWORK WILL BE PERMITTED.

TYPICAL ROAD GULLY DETAIL

1 GULLY GRATING AND FRAME SHALL BE TO BS EN124 GRADE C250, WITH A CLEAR OPENING OF 375x430mm. DOUBLE-TRIANGULAR GRATINGS ARE NOT PERMITTED. GRATINGS SHALL BE MANUFACTURED FROM CAST IRON OR DUCTILE IRON, CLEARLY MARKED WITH THE MAKER'S NAME AND THE GRADE OF THE GRATING, AND SHALL INCORPORATE A CAPTIVE WING ARRANGEMENT TO PREVENT REMOVAL AND THEFT. GULLY FRAME SHALL BE SET ON A 10-20mm THICK CLASS 1 CEMENT MORTAR BED. GRATING AND FRAME TO BE SET 5mm BELOW THE CARRIAGEWAY SURFACE AND FLUSH WITH THE KERB FACE. ANY GAP SHALL BE FILLED WITH CLASS 1 MORTAR. IN PEDESTRIAN AREAS GULLY FRAMES AND GRATES SHALL BE SAINT-GOBAIN PIPELINES (GLYNVED BRICKHOUSE) 'PEDESTRIAN', OR SIMILAR APPROVED, OF A PEDESTRIAN FRIENDLY MESH GRATE DESIGN.

2 AT LEAST ONE AND NOT MORE THAN THREE COURSES CLASS B ENGINEERING 225mm BRICKWORK LAID SQUARE. CHANGE IN PROFILE FROM SQUARE TO CIRCULAR TO BE SHAPED IN CLASS 1 MORTAR.

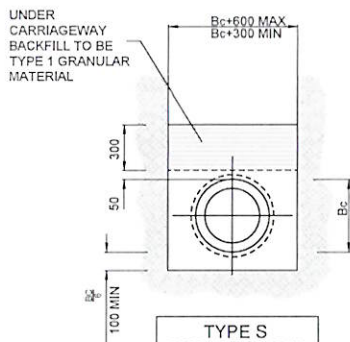
3 GULLY POT TO BE PRECAST CONCRETE TO BS5911 HAVING INTERNAL DIMENSIONS 375mm ϕ AND 750mm DEPTH.

4 150mm THICK CONCRETE SURROUND (MIX ST1).

5 WHERE THE GULLY CONNECTION PIPE PASSES UNDER THE CARRIAGEWAY THE INVERT OF THE PIPE AT THE OUTLET SHALL BE SET AT LEAST 175mm BELOW FORMATION LEVEL. THE INVERT SHALL BE AT LEAST 315mm BELOW THE TOP OF THE SUB-BASE. A MIN 150mm THICK CONCRETE SURROUND SHALL BE CONTINUED TO THE CONNECTION PIPE UNTIL A DEPTH OF COVER OF 1200mm TO THE CROWN OF THE PIPE HAS BEEN ACHIEVED.

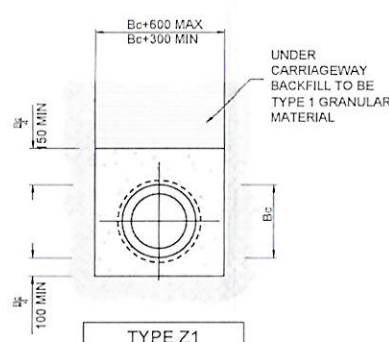
PIPE NOMINAL DIA (mm)	MAXIMUM PARTICLE SIZE (mm)	BED TYPE	SUITABLE MATERIALS	
			IMPORTED GRANULAR MATERIALS (Note a)	MAXIMUM CF VALUE FOR 'AS-DUG' GRANULAR MATERIALS (Note b)
1000	10	S	10mm NOMINAL SINGLE SIZED	0.15
		B		0.30 (Note c)
		F		0.15
		N	COARSE, MEDIUM OR FINE SAND	
OVER 1000 TO 1500	15	S	10 OR 14 NOMINAL SINGLE SIZED, OR 14 TO 5mm GRADED	0.15
		B		0.30 (Note c)
		F		0.15
		N	COARSE, MEDIUM OR FINE SAND	
OVER 1500 TO 5000	20	S	10, 14 OR 20 NOMINAL SINGLE SIZED, OR 14 TO 5mm GRADED, OR 20 TO 5mm GRADED	0.15
		B		0.30 (Note c)
		F		0.15
		N	'ALL-IN AGGREGATE' OR COARSE, MEDIUM OR FINE SAND	
OVER 5000 (Note d)	40	S	10, 14, 20 OR 40mm NOMINAL SINGLE SIZED CRUSHED ROCK, OR 14 TO 5mm GRADED, OR 20 TO 5mm GRADED, OR 40 TO 5mm GRADED	0.15
		B		0.30 (Note c)
		F		0.15
		N	'ALL-IN AGGREGATE' OR COARSE, MEDIUM OR FINE SAND	

TABLE 1
GRANULAR BEDDING AND SIDE FILL MATERIALS FOR RIGID PIPES



TYPE S
BEDDING FACTOR 2.2

PIPE FULLY SURROUNDED WITH GRANULAR MATERIAL HAVING A COMPACTION FRACTION NOT GREATER THAN 0.2



TYPE Z1
CONCRETE SURROUND

FOR USE IF COVER TO SOFFIT IS LESS THAN 600mm IN TRAFFICKED AREAS OR 600mm IN OPENSOURCE

NOTES

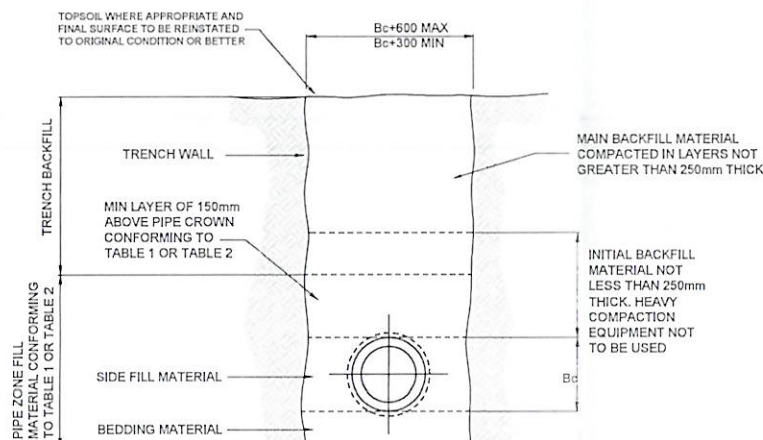
- IMPORTED GRANULAR MATERIAL TO INCLUDE AGGREGATES TO BS882, AIR-COOLED BLAST FURNACE SLAG TO BS1047 AND SINTERED PULVERISED-FUEL ASH TO BS3797.
- COMPACTION FRACTION VALUE (SEE APPENDIX A OF WIS 4-08-01).
- THE HIGHER THE CF VALUE FOR 'AS-DUG' BEDDING AND SIDE FILL MATERIALS THE GREATER THE REQUIRED EFFORT FOR ADEQUATE COMPACTION.
- ANGULAR MATERIALS SHOULD BE CHOSEN TO ENSURE SUFFICIENT SUPPORT IS PROVIDED TO THESE HEAVIER PIPES. CRUSHED ROCK AGGREGATES TO BS882 ARE RECOMMENDED. AIR-COOLED BLAST FURNACE SLAG TO BS3797 OR OTHER GRANULAR MATERIALS MAY BE USED IF THEY SHOW A SIMILAR DEGREE OF ANGULARITY.

ADDITIONAL NOTES

IN WET SOIL, THE MIGRATION OF FINE SOIL PARTICLES WITH GROUND WATER INTO THE VOIDS OF THE BEDDING AND SIDE FILL MATERIAL MAY BE MINIMISED BY SURROUNDING THE GRANULAR MATERIAL WITH FILTER FABRIC. ALTERNATIVELY, THE GRADING OF THE MATERIAL MAY BE SELECTED SO THAT IT IS SELF FILTERING WITH RESPECT TO THE SURROUNDING SOIL PROVIDED THE OTHER REQUIRED PROPERTIES ARE NOT IMPAIRED.

AIR-COOLED BLAST FURNACE SLAG AND SINTERED PULVERISED FUEL ASH ARE NOT RECOMMENDED FOR USE WITH DUCTILE IRON OR STEEL PIPES DUE TO THE POTENTIAL RISK OF CORROSION.

THE SULPHATE CONTENT OF BEDDING AND SIDE FILL MATERIALS FOR USE WITH CEMENTITIOUS PIPES SHOULD NOT BE GREATER THAN 0.3% AS SULPHUR TRIOXIDE.



TYPICAL TRENCH CONFIGURATION

LEGEND

- MAIN BACKFILL MATERIAL
- SELECTED FILL
- GRANULAR MATERIAL AS DEFINED IN TABLES 1 AND 2, AS APPROPRIATE
- GRADE C20 CONC (UNLESS SHOWN OTHERWISE)

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1 DETAIL AMENDED.	12.05.22	GMA	ML
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ELL PARTNERSHIPS LTD

MARGARET'S CRESCENT
TON
FOLK

FOLK HIGHWAY
STRUCTION DETAILS

S278 SHEET 2

DRAWN	AUTHORISED	DATE	SCALE AT A1
GMA	ML	SEPT 22	NTS
SUSTAINABILITY			
A - CONSTRUCTION			
PROJECT NO.	DRAWING FIELD.	DRAWING NO.	REV
201168		C-4003	C02