

NOTES
NOTES:

DO NOT SCALE THIS DRAWING.
WORK TO FIGURED DIMENSIONS ONLY. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.

- This drawing is to be read in conjunction with all relevant Architects, Engineer's and Specialist's drawings and their respective Specifications.
- All work to comply with the relevant British Standards, Codes of Practice and the Building Regulations.
- Any discrepancies between all working drawings, specifications and schedules of all disciplines to be immediately notified to CTP for clarification/correction prior to construction of relevant structure.

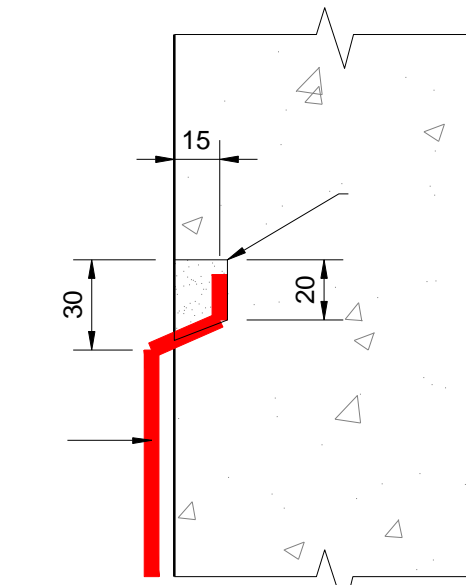
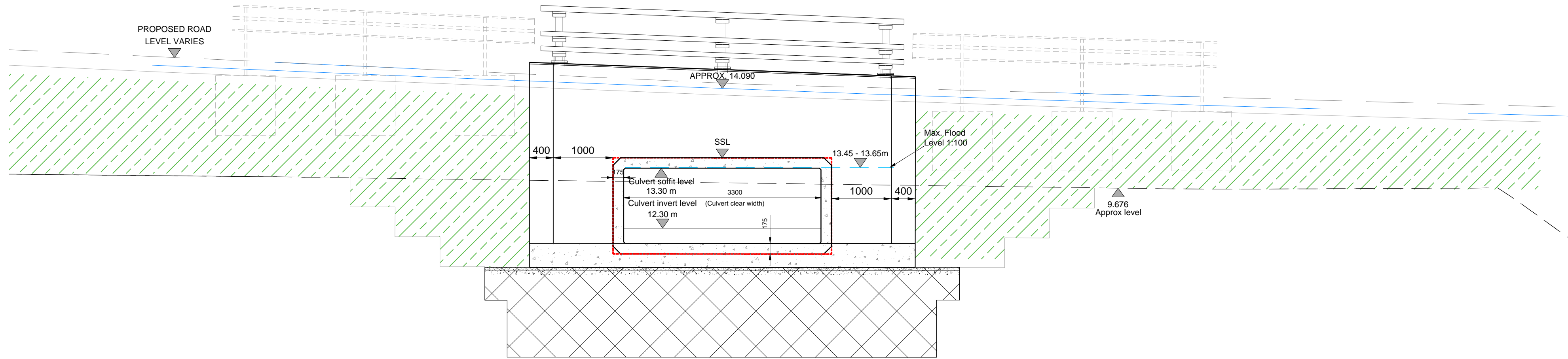
STRUCTURAL CONCRETE:

- All bar bending to comply with BS 8666.
- All rebar (Type B) to comply with BS 4449.
- Nominal cover to reinforcement to be as follows

Base Cover	= 30+10
Parapets Top/roadside cover	= 60+10
Slab Cover	= 30+10

Fixing tolerances for reinforcement as stated in BS EN 13670:2009
Execution of Concrete Structures (If BS standards used note to read Fixing tolerances for reinforcement as stated in BS 8110-1:1997 Section 7.3)

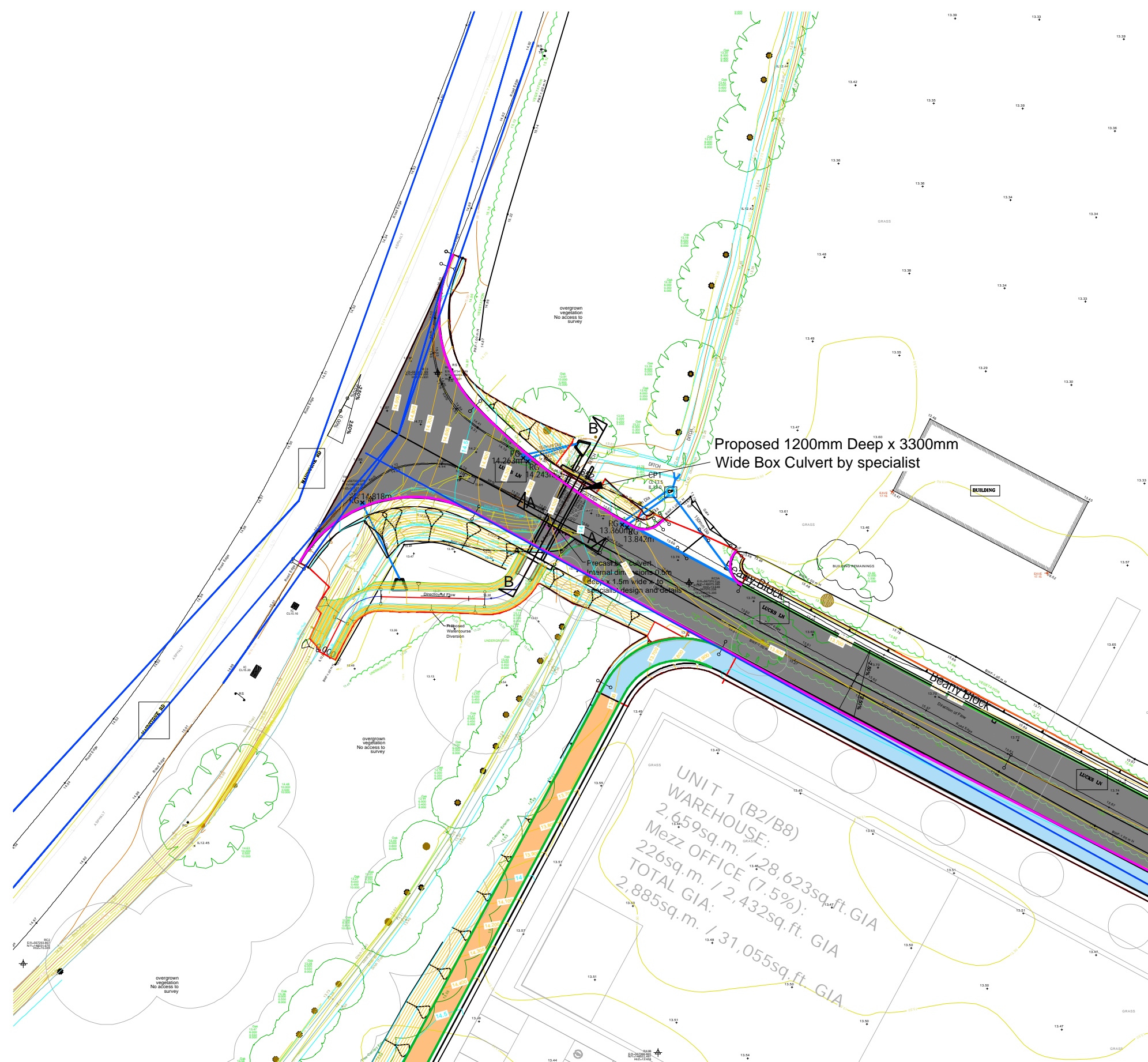
- Reinforcement laps to be in accordance with Eurocode 2.
- All concrete & steel fixing to be in accordance with SHW Series 1700.
- Concrete Grades (BS 8500):
 - Mass concrete blinding to be GEN1.
 - Reinforced concrete to be RC40/50.
- All buried concrete surfaces to be coated with 2 coats of cutback bitumen to SHW 2004 and 2006
- Ready mixed concrete to be obtained from a plant that holds a current certificate of production conformity to NACCB.
- Surface of concrete at construction joints to be sprayed and brushed whilst green to expose aggregate finish. Surface to be clean and damp when fresh concrete is cast against it.
- Do not place concrete when it risks freezing or overheating.
- Discharge concrete so as not to cause segregation of ingredients. Fully compact concrete to remove all air.
- All concrete finishes to U1 / F1 to SHW Clause 1708 unless noted otherwise.



* Maximum flood water level, 1 in 100 years + 35 years climate change is 13.45-1365m

NOTES:-

- Sikaswell A2010 hydrophillic sealant to be installed at the interface between head wall and box culvert units.
- All works are to be undertaken in accordance with the manual of contract documents for Highway Works Volume 1 - Specification for Highway Works.
- Parapet on the footpath side over culvert to be 1.25m high. Parapet working width is W1 (0.6m) and impact severity level is A. Parapets to be left unpainted.
- Longitudinal fall on culvert 1:200.
- Waterproofing to be installed in accordance with manufacturers specification. For fillet to accommodate waterproofing, refer to Ciria C543 Detail 3.1.4-2.
- Parapets to be installed in accordance with Varley and Gullivers specification. See dwg No. VGSN 500-02B, VGSN 500-03B and VGAS-2B.
- Reno Mattress to be Maccaferri 60mm mesh size, 3mm wire zinc and pvc coated.
- 25mm x 25mm Chamfer to all external corners of concrete to be provided, refer to Ciria C543 Detail 3.1.2-1.
- Reinforcement tying wire to be stainless steel.



FOR COMMENT

P02	Culvert Resized	18.09.23	SF	SM
P01	For Comment	24.08.23	SF	SM
Revision	Amendments	Date	Revised	Checked
NSV		Aug 2023		CIVIL



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Swatlands

Base of culvert retaining walls to be formed on well compacted DTP granular fill type-1 on well consolidated virgin ground, very dense greenish grey slightly gravelly sand (Harwich Formation). Allowable ground bearing pressure to be minimum 150kN/m2. It may be required to carry out plate bearing tests to confirm bearing capacity of ground at foundation level.

CDM 2015 RESIDUAL RISKS

- Existing live stream
- Contaminated soil.
- Ground water.
- Unstable ground
- Temporary loading during construction.

The above residual risks are for non-standard hazards. It is assumed that a competent contractor familiar with the construction of this type of work will be appointed who will be aware of the standard hazards.

**Culvert No.1
Section 2 of 2**