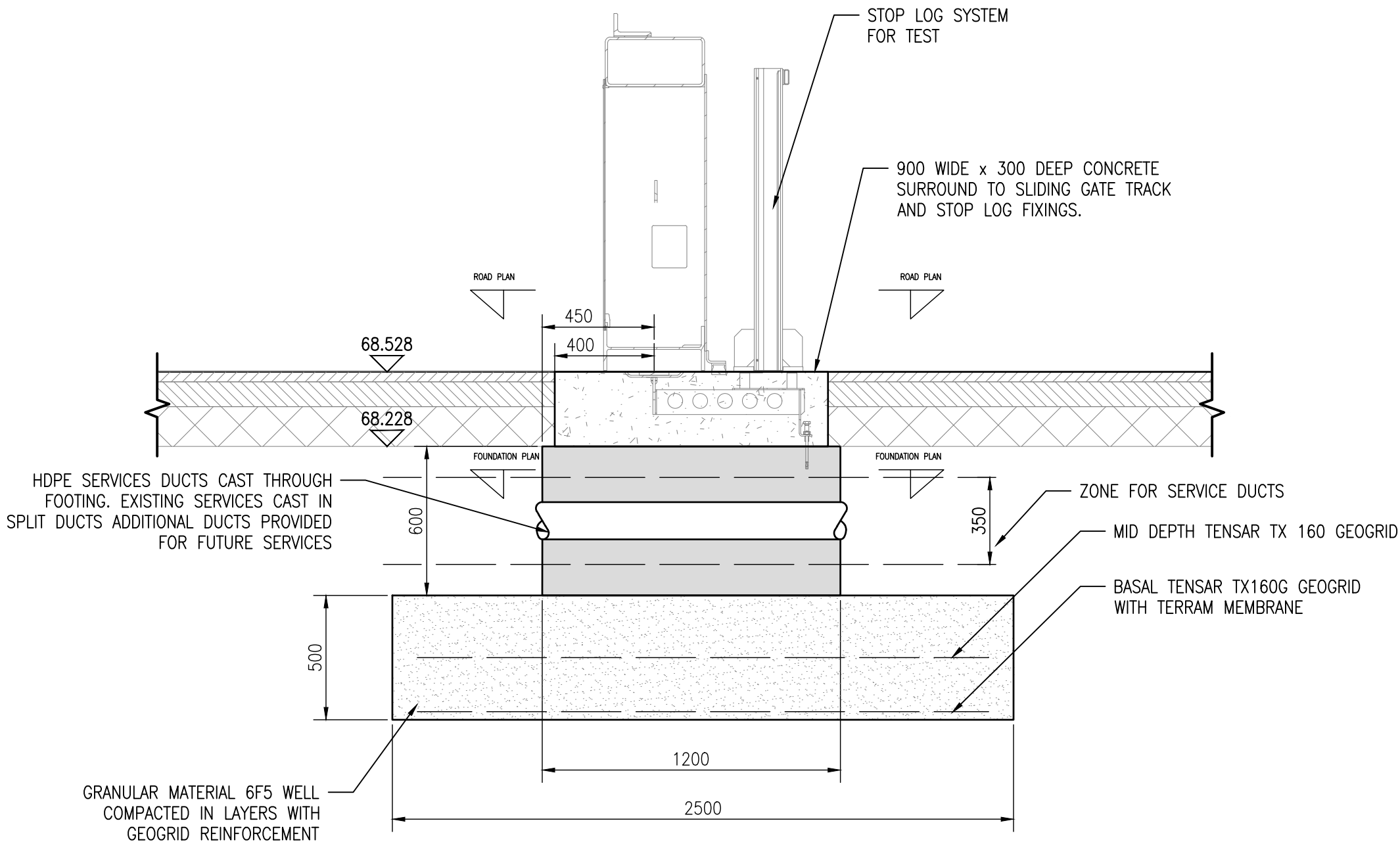
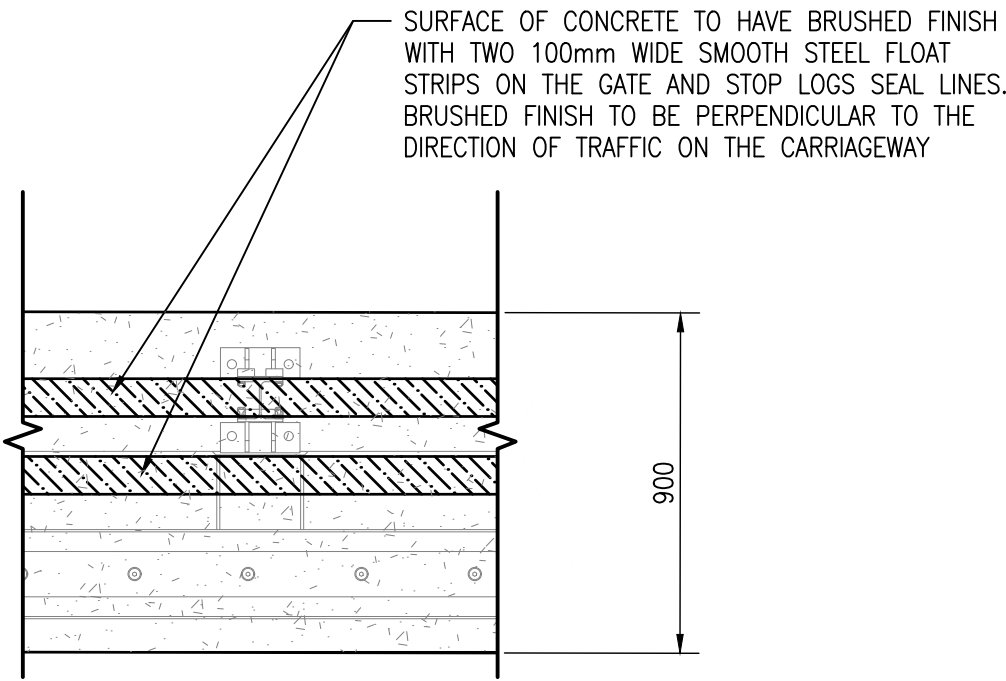


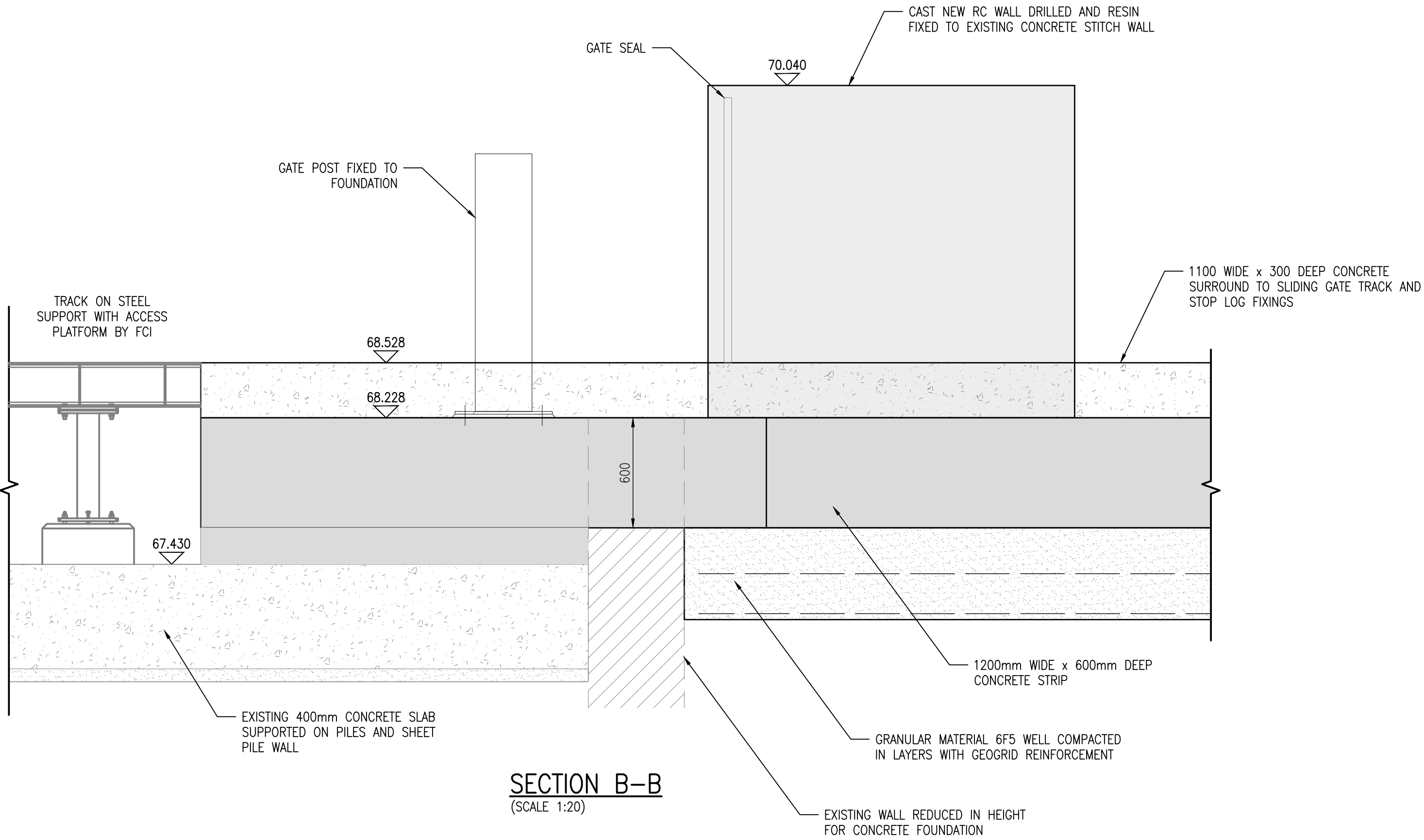


SECTION A-A
(SCALE 1:20)



TYPICAL DETAIL STOP LOG FIXING PLAN
(SCALE 1:20)

REFER TO 159751-2004 AND 159751-2005 FOR PLANS



SECTION B-B
(SCALE 1:20)

STEELWORK NOTES

- ALL STRUCTURAL STEELWORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST VERSION OF THE NATIONAL STRUCTURAL STEELWORK SPECIFICATION (NSSS).
- NEW STEELWORK SHOULD BE CE MARKED AND FABRICATED TO EXECUTION CLASS EXC2 AS DEFINED IN BS EN 1993 (EUROCODE 3) UNLESS NOTED OTHERWISE.
- ALL NEW HOT-ROLLED STEEL SECTIONS TO BE GRADE S355 JR. ALL NEW HOT-ROLLED HOLLOW STEEL SECTIONS TO BE GRADE S355 J2H. COLD-FORMED HOLLOW SECTIONS WILL NOT BE PERMITTED UNLESS ADVISED IN WRITING BY THE ENGINEER. ALL PLATES AND FLATS USED IN CONNECTIONS TO BE A MINIMUM OF S275 JR.
- INTERNAL HIDDEN STEELWORK TO BE PROTECTED FROM CORROSION WITH A COATING SYSTEM TO SUIT CORROSION CATEGORY C2 AS DEFINED IN BS ISO 12944-2. STEELWORK TO BE BLAST CLEANED TO SA2½ AND SHOP-COATED WITH 80 MICRONS OF ZINC PHOSPHATE EPOXY PRIMER. ANY AREAS DAMAGED DURING ERECTION TO BE TOUCHED-UP TO MATCH.
- ANY DECORATIVE COATINGS, OR APPLIED FIRE PROTECTION (E.G. INTUMESCENT PAINT) TO BE SPECIFIED BY THE ARCHITECT, ENSURING COMPATIBILITY WITH THE PRIMER.
- STEELWORK WITHIN EXTERNAL CAVITIES TO BE GIVEN TWO COATS OF BITUMINOUS PAINT ON SITE, IN ADDITION TO THE ABOVE.
- STEELWORK TO BE FULLY EXTERNAL TO BE PROTECTED FROM CORROSION WITH A COATING SYSTEM TO SUIT CORROSION CATEGORY C3 AS DEFINED IN BS ISO 12944-2. STEELWORK TO BE HOT-DIPPED GALVANISED WITH A MINIMUM COATING OF 85 MICRONS TO BS EN ISO 1461. FABRICATOR TO DETAIL ANY REQUIRED DRAIN HOLES ETC. ANY AREAS DAMAGED DURING FABRICATION OR ERECTION TO BE TOUCHED-UP TO MATCH.
- ANY STEELWORK TO BE PERMANENTLY BELOW STRUCTURAL SLAB LEVEL IN THE FINAL CONDITION (E.G. BASEPLATES, COLUMN BASES) TO BE PROVIDED WITH A CONCRETE ENCASEMENT 100MM THICK, DESIGNATED MIX GEN3. 1 LAYER OF D49 WRAPPING MESH TO BE INCLUDED AT MID-DEPTH.
- ALL STEEL-TO-STEEL AND STEEL-TO-CONCRETE CONNECTIONS TO BE DESIGNED BY THE STEEL FABRICATOR TO THE LOADINGS STATED ON THE DRAWING TO BS EN 1993 (EUROCODE 3) UTILISING GRADE 8.8 BOLTS. ANY NON-SPECIFIED CONNECTIONS TO BE DESIGNED FOR A MINIMUM OF 75KN VERTICAL SHEAR AND 75KN AXIAL TIE FORCE FOR ROBUSTNESS. CONNECTIONS TO HAVE A MINIMUM OF EITHER 2 M20 OR 4 M16 BOLTS.
- ALL BASEPLATES TO BE DESIGNED BY THE STEEL FABRICATOR FOR THE LOADS STATED ON THE DRAWING TO BS EN 1993 (EUROCODE 3) UTILISING GRADE 8.8 BOLTS. COLUMN BASEPLATES TO HAVE A MINIMUM OF 4NO M20 BOLTS, AND DOOR-POSTS / WIND-POSTS TO HAVE A MINIMUM OF 2NO M16 BOLTS. BOLTS BE TO SUPPLIED TO MAIN CONTRACTOR COMPLETE WITH CARDBOARD TUBES/CONES FOR CASTING INTO THE FOUNDATIONS. RESIN ANCHOR CONNECTIONS WILL NOT BE PERMITTED EXCEPT UNLESS ADVISED IN WRITING BY THE ENGINEER.
- ALL BASEPLATES TO INCORPORATE AN 25MM VERTICAL ALLOWANCE FOR A PROPRIETARY HIGH-STRENGTH NON-SHRINK FLOWABLE GROUT. FABRICATOR TO DETAIL ANY HOLES REQUIRED WITHIN BASEPLATES TO FACILITATE THE INSTALLATION OF THIS.
- ALL BRACING TO BE DETAILED TO NODE AT A COMMON POINT, NOMINALLY ALONG THE CENTRELINE OF THE ADJOINING MEMBERS TO PREVENT ECCENTRICITY IN THE CONNECTIONS. FOR GROUND LEVEL, THIS SHALL BE THE CENTRE OF THE COLUMN BASE/BASEPLATE.
- FABRICATOR TO DETERMINE AND DETAIL ANY TEMPORARY BRACING REQUIRED FOR ERECTION PURPOSES. THE TEMPORARY BRACING SHALL BE REMOVED UPON COMPLETION.
- TEMPORARY CLEATS UTILISED FOR ERECTION MAY REMAIN ON THE FRAME UNLESS THE MEMBER IS TO BE EXPOSED IN THE FINAL CASE, WHEREUPON THE CLEATS SHOULD BE REMOVED AND THE COATINGS MADE GOOD.
- THE FABRICATOR SHALL AGREE THE NUMBER OF SITE VISITS FOR ERECTION WITH THE MAIN CONTRACTOR TO SUIT THE OVERALL PROGRAMME AND PHASING OF THE WORKS.
- THE STEEL FABRICATOR AND MAIN CONTRACTOR SHALL BOTH BE RESPONSIBLE FOR CARRYING OUT A SITE MEASURE TO CHECK FIT OF NEW STEELWORK WITHIN EXISTING STRUCTURES PRIOR TO PRODUCTION OF FABRICATION DRAWINGS AND ERECTION.
- COLD-FORMED SECONDARY STEELWORK (E.G. PURLINS, SIDE RAILS, PANEL RAILS, CLEADER RAILS, DOOR/WINDOW TRIMS) TO BE ALLOWED FOR AND DETAILED BY THE FABRICATOR WITH ALL BRACKETS, CLEATS, STRUTS, TIE-WIRES, ANTI-SAG BARS AND OTHER COMPONENTS AS REQUIRED BY THE MANUFACTURER FOR INSTALLATION.
- THE FABRICATOR SHALL PROVIDE A COPY OF ALL GA DRAWINGS IN AN ELECTRONIC FORMAT TO BE AGREED TO THE ENGINEER AND ARCHITECT FOR COMMENT NOT LESS THAN 14 DAYS PRIOR TO FABRICATION.

NOTES:

- ALL CONCRETE WORKS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE NATIONAL STRUCTURAL CONCRETE SPECIFICATION (NSCS).
- CONCRETE MIXES FOR THE CONCRETE ELEMENTS TO BS 8500-2 SHALL BE AS FOLLOWS:
 - FOUNDATION AND PILE CAPS AC2 DS2 DC2 DESIGNATED MIX OF RC32/40
 - RETAINING WALLS XF2 - DESIGNATED MIX OF RC40/50
 - EXPOSED HORIZONTAL CONCRETE XF4 - DESIGNATED MIX OF PAV2 OR RC40/50XF
- THE CONTRACTOR SHALL ALLOW FOR MAKING AND TESTING CONCRETE CUBES AT A RATE OF THREE CUBES PER DAY PER TYPE OF CONCRETE MIX BEING POURED OR OTHERWISE AS NOTED IN THE NSCS. THE TESTING SHALL BE UNDERTAKEN BY A UKAS ACCREDITED COMPANY, AND THE RESULTS MADE AVAILABLE TO THE ENGINEER AT THE EARLIEST OPPORTUNITY FOR REVIEW.
- NOMINAL COVER TO REINFORCEMENT TO BE 60 MM TO ALL FACES UNLESS NOTED OTHERWISE, TOLERANCE 10MM.
- FINISHES TO THE CONCRETE ELEMENTS TO BE AS FOLLOWS, IN ACCORDANCE WITH THE DEFINITIONS IN BS EN 13670 AND THE NSCS:
 - RETAINING WALLS BASE/STEM - BASIC/PLAINREFER BACK TO THE ARCHITECT AND ENGINEER FOR INSTRUCTION SHOULD ANY OF THE CONCRETE FACES BE VISIBLE IN THE FINAL CASE, AS SPECIAL FINISHES MAY BE REQUIRED.
- NO HOLES, CHASES, EMBEDMENT OF PIPES ETC SHALL BE MADE IN THE CONCRETE MEMBERS, OTHER THAN AS SHOWN ON THE STRUCTURAL DRAWINGS.
- CONSTRUCTION JOINTS AND DAY JOINTS IN CONCRETE MEMBERS SHALL BE AS SHOWN ON THE DRAWINGS, OR AS OTHERWISE AGREED WITH THE ENGINEER IN WRITING. FACES OF DAY JOINTS TO BE SUITABLY PREPARED FOR AGGREGATE INTERLOCK.
- KICKERS OF 150MM HEIGHT SHALL BE USED FOR VERTICAL ELEMENTS. TO ENSURE CORRECT PLACEMENT OF FORMWORK, WITH THE TOP FACE SUITABLY PREPARED FOR AGGREGATE INTERLOCK. KICKER-LESS CONSTRUCTION MAY BE PERMITTED WITH THE APPROVAL OF THE ENGINEER IN WRITING.
- ALLOW FOR 25MM CHAMFER TO ALL EXPOSED ARRISES.
- PROPOSALS FOR THE CASTING SEQUENCE TO BE SUBMITTED TO THE ENGINEER FOR COMMENT IN ADEQUATE TIME PRIOR TO CONCRETE POUR.
- IMMEDIATELY FOLLOWING POURING, CONCRETE TO BE PROTECTED FROM RAIN, SIGNIFICANT WEATHER OF HOT SUN, OR FROST/ICE/SNOW. IN EXTREMES OF HOT AND COLD, REFER TO THE ENGINEER FOR FURTHER INSTRUCTION ON CASTING IN THESE CONDITIONS.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, not the following risk and information.

Hazards listed here are not exhaustive. Refer to Design Assessment Form No.

CONSTRUCTION
1. HIGHWAY TRAFFIC
2. EXISTING SERVICES
3. FRAGILE BRIDGE STRUCTURE

DEMOLITION
AS CONSTRUCTION

For information relating to Use, Cleaning and maintenance see the Health and Safety File

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Rev.	Date	Description	Drawn	Checked	Approved
C	16/12/24	SECTIONS UPDATED, NOTES ADDED	NW	JRT	JRT
B	06/12/24	SECTIONS UPDATED	NW	JRT	JRT
A	26/07/24	SECTIONS UPDATED	JR	JRT	JRT

Notes:

Client:



Project Title:

HARDY'S GATE BRIDGE
DUMERS LANE
BURY

Drawing Title:

SOUTHERN GATE
SECTIONS SHEET 1

FAIRHURST

51a St. Pauls Street,
LEEDS, LS1 2TE
Tel: 0113 243 4671 Fax: 0844 381 4412

Scale at A1:
AS SHOWN

Status:
PRELIMINARY

Drawn:

JR

Checked:

JT

Approved:

JT

Date:

04.07.2024

Date:

04.07.2024

Date:

04.07.2024

Drawing No.:

ENV0000389C-FHT-00-DR-C-2020

Revision:

C