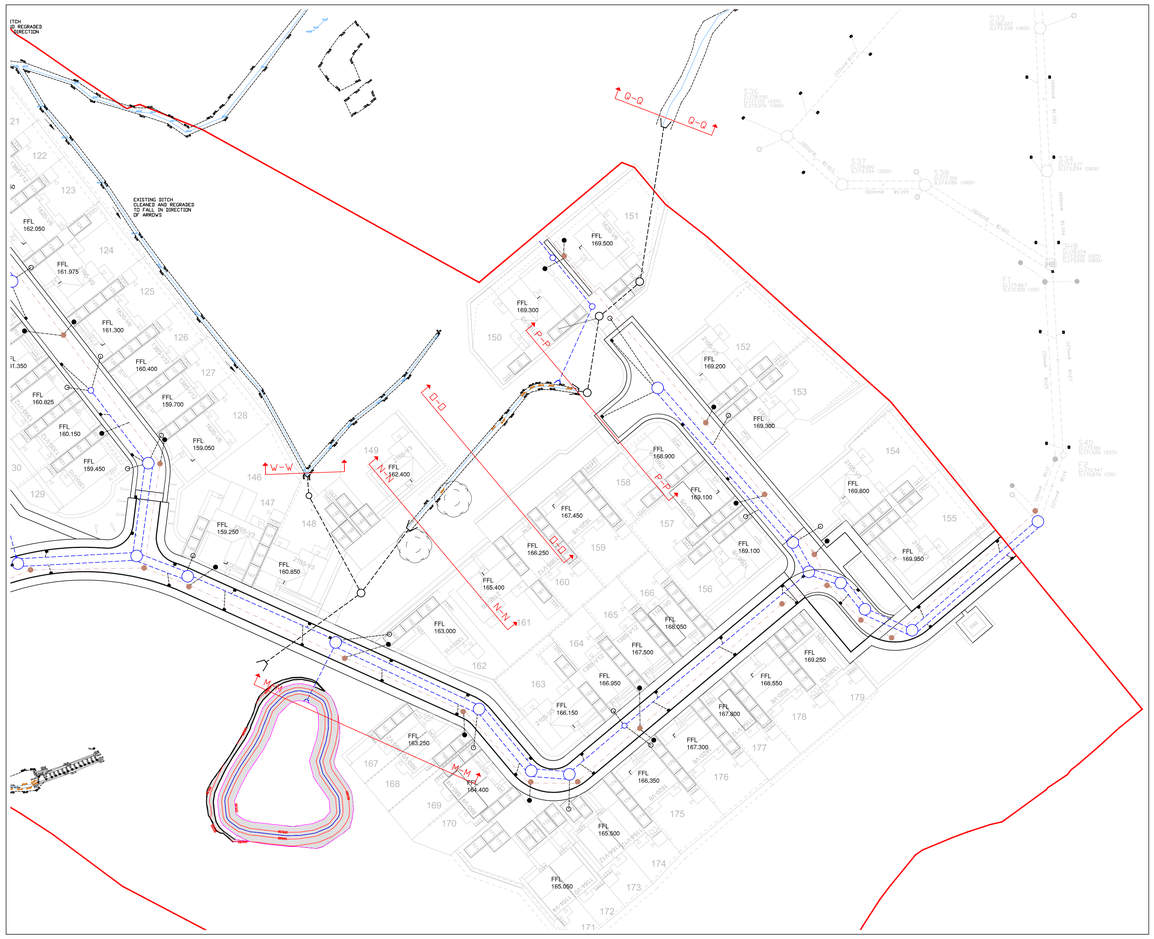
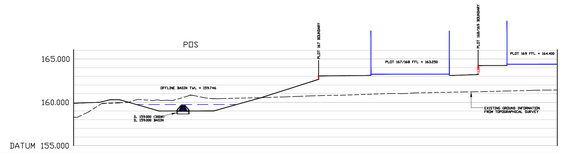
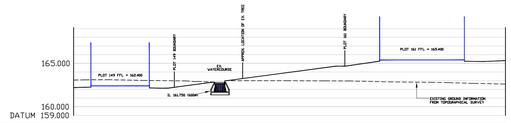


LOCATION PLAN
SCALE 1:500



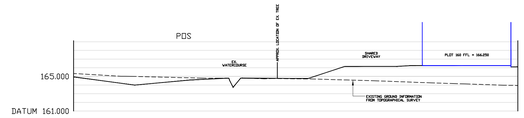
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000
SURVEY LEVEL	158.288	159.932	160.227	160.549	160.507	160.653	160.804	160.963	161.097	161.192	161.310	161.420
PROPOSED LEVEL	159.900	160.300	159.800	159.800	160.077	161.608	163.064	163.250	163.250	162.150	164.400	164.400

M-M



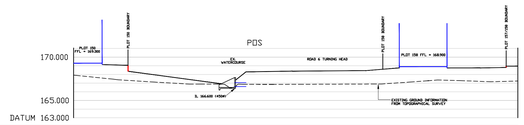
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	49.834
SURVEY LEVEL	163.079	163.103	163.009	162.885	162.995	162.997	162.973	162.997	162.827	162.724	162.611
PROPOSED LEVEL	162.210	162.400	162.140	162.688	163.317	163.979	164.640	165.286	165.400	165.400	165.319

N-N



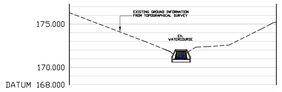
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	51.258
SURVEY LEVEL	165.338	165.044	164.921	164.799	164.791	164.730	164.621	164.488	164.301	164.138	163.977	163.952
PROPOSED LEVEL	164.950	164.274	164.270	164.633	164.791	164.766	165.725	166.150	166.250	166.250	166.250	166.100

O-O



CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	51.258
SURVEY LEVEL	167.911	167.400	167.081	166.886	166.862	166.859	166.876	166.895	167.205	167.271	167.208	167.241
PROPOSED LEVEL	169.300	169.093	167.869	167.194	168.301	168.376	168.414	168.545	168.900	168.750	168.950	168.950

P-P

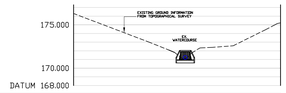


CHAINAGE	0.000	5.000	10.000	15.000	20.000	23.886
SURVEY LEVEL	176.304	174.408	172.487	172.351	173.368	175.219

Q-Q

CHAINAGE	0.000	5.000	10.000	15.000	18.240
SURVEY LEVEL	161.649	161.920	161.889	162.395	162.609
PROPOSED LEVEL	159.345	159.729	161.889	162.219	162.278

W-W



CHAINAGE	0.000	5.000	10.000	15.000	20.000	23.886
SURVEY LEVEL	176.304	174.408	172.487	172.351	173.368	175.219

Q-Q

GENERAL

1. All adoptable sewers and associated works are to comply fully with "Design and Construction Guidance" & Local Practices
2. All highway works to be to adoptable standards and to to comply fully with the Local Authority specification.
3. All private drainage works are to comply fully with part H of the Building Regulations
4. All existing invert levels to be checked by the Contractor at the start of works and any discrepancies notified to REFA.
   All levels are based on topographical survey information provided by others.
5. All materials to bear the relevant B.S.Kitemark and comply fully with the specifications.
   All concrete & concrete products must use Sulphate resistant cement (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur)
6. All opening notices etc. as required under highways acts etc. are to be obtained prior to commencement of works.
   All works are to be inspected by L.A., NHBC or Relevant Water Authority as applicable.

C.D.M. REGULATIONS 2015

In line with the above regulations we are obliged to inform the Client of their responsibilities under section CDM 15/1, and residual risks that may be encountered in the construction of these works.
All design work has been carried out with Health and Safety aspects given full consideration.
Wherever possible risks have been eliminated from the design, however due to the very nature of this type of work it is not possible to remove all the risks from the design.
We would also respectfully remind the Client of his obligations to take all reasonable steps in ensuring that only competent Contractors who have a valid safety policy are employed.
They should also provide satisfactory responses at tender stage as to the manner in which they will deal with the elements of risk involved in this type of work and in particular those highlighted by REFA below:–

1. Support / treatment for ALL excavation work.
2. Guarding to edges of excavations to prevent people,materials and vehicles falling into excavation.
3. Guarding of excavations outside working hours to prevent unauthorised access.
4. Undermining to adjacent roads or structures.
5. Confined space operations.
6. Dealing with existing services.
7. Traffic management on existing highways.
8. Procedure to be followed in event of accident or emergency.
9. Method of working where contaminated ground is present on site.
10. Confirmation will be required that all operatives are adequately trained, copies of relevant training certificates to be supplied.

The above list is by no means exhaustive but it does highlight operations that present a risk to contractors and the general public.
For clarification on any item please contact REFA.

rev	Revision details	Revby	Date

smas worksafe designer www.smasltd.com — SSIP SAFETY SCHEMES IN PROCUREMENT

Drawing Stage		Drawing Status			
	Draft		Comments	●	Tender
●	Issued		Information		Construction
		●	Approval		As Built

Client
NORTHSTONE LIMITED

Job title
HORWICH GOLF CLUB
HORWICH

Drawing title
SITE SECTIONS
DRG 3

REFA
45 Bridgeman Terrace
Wigan, Lancs
WN1 1TT
Tel:-(01942) 826020.
Fax:-(01942) 230816
CONSULTING ENGINEERS
CIVIL • STRUCTURAL
GEOTECHNICAL • ENVIRONMENTAL

Date	Scale	Drawn
30.03.23	1:500 & 1:250	RW

DRAWING No 22108/117/3 Rev

© This drawing is the property of REFA and should not be copied, used or its contents divulged without prior written consent.

A0 SHEET