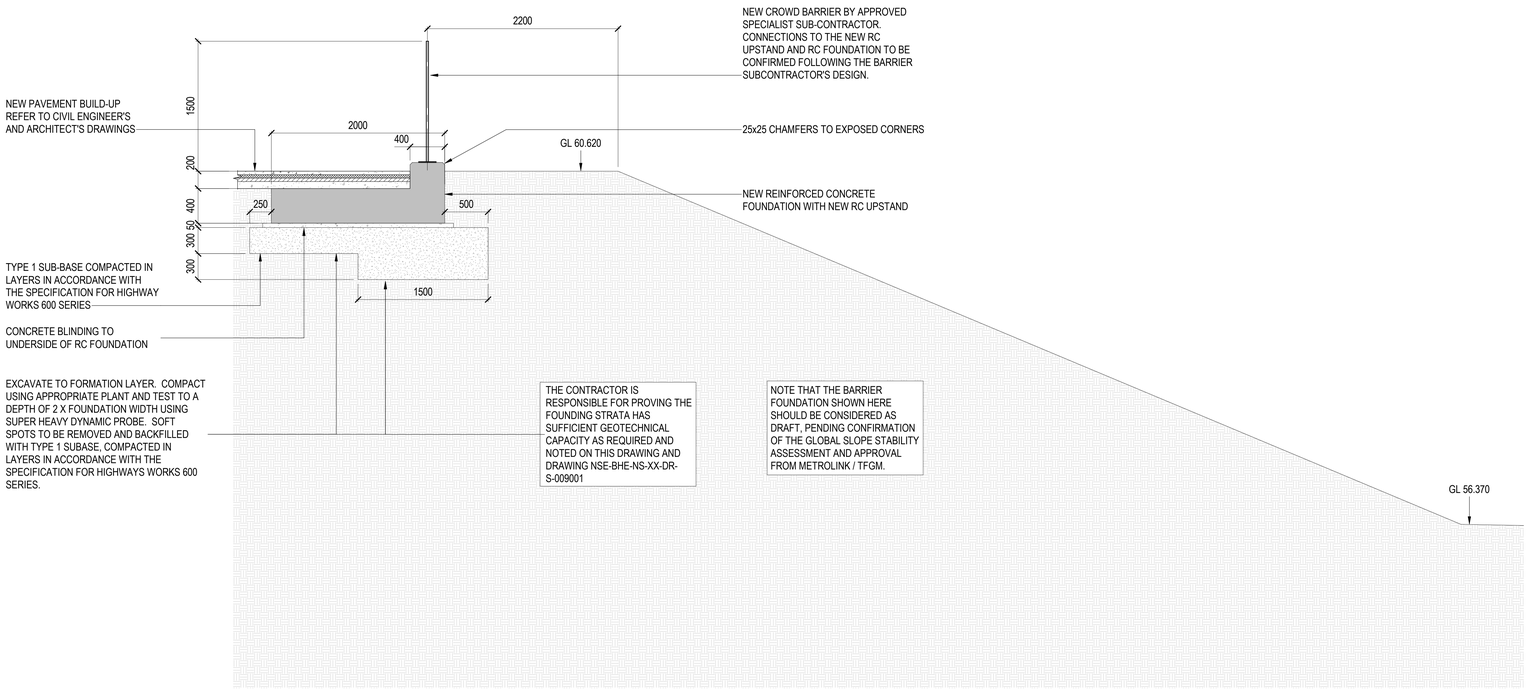

GENERAL NOTES

STRUCTURAL ENGINEERING DRAWINGS
S-009001 SIW-METROLINK - GENERAL ARRANGEMENT - LEVEL 00
S-009002 SIW-METROLINK - SECTIONS AND DETAILS - LEVEL 00

GENERAL DESCRIPTION OF STRUCTURAL WORKS SHOWN ON THESE DRAWINGS
STRUCTURAL FOUNDATIONS FOR A CROWD BARRIER WILL BE REQUIRED AT THE PERIMETER OF THE PROPOSED EXTENDED WAITING AREA TO THE EAST OF THE EXISTING TURNSTILES, QUEUEING AREA AND CANOPY. REFER TO THE ARCHITECT'S LAYOUT FOR THE PROPOSED LOCATION OF THE BARRIER. HERE THE PROPOSED BARRIER LINE IS OFFSET FROM THE TOP EDGE OF THE EXISTING SLOPE AND THE BARRIER ITSELF IS EXPECTED TO BE SIMILAR TO THAT OF THE ADJACENT QUEUEING AREA AND TO THE DESIGN OF AN APPROVED SPECIALIST CONTRACTOR. THE FINAL SETTING OUT FOR THE FENCE FOUNDATION IS THEREFORE SUBJECT TO THE SPECIALIST FENCE SUBCONTRACTOR'S FENCE DESIGN AND LAYOUT OF THEIR FENCE.

NOTE REGARDING ASSUMPTIONS ON GROUND CONDITIONS
(SEE DETAILS IN NSE-BHE-XX-XX-CA-CG-000001_P04)
THE CROWD BARRIER IS TO BE SUPPORTED WITH A SHALLOW FOUNDATION WITH A MINIMUM FOUNDATION SIZE AS GIVEN IN THE DRAWINGS, BASED ON THE AVAILABLE GROUND INVESTIGATION, GLACIAL TILL IS PRESENT AT DEPTH. THEREFORE, THE FOUNDATION IS ASSUMED TO BE PLACED WITHIN MADE GROUND. FOUNDING ON MADE GROUND IS GENERALLY NOT RECOMMENDED DUE TO ITS MATERIAL VARIABILITY. HOWEVER, IT IS ASSUEMD THAT MADE GROUND WILL BE COMPACTED AND TESTED AT FORMATION LEVEL TO ACHIEVE A MINIMUM ALLOWABLE BEARING RESISTANCE OF 85KPA. THE ALLOWABLE BEARING RESISTANCE TO BE CONFIRMED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE BARRIER FOUNDATION. IF THE GROUND CONDITION IS NOT AS ANTICIPATED, THE ENGINEER IS TO BE CONTACTED.

NOTE REGARDING THE ADJACENT EXISTING REINFORCED EARTH SLOPE
THE ADJACENT EXISTING REINFORCED EARTH SLOPE IS ASSUMED TO HAVE BEEN CONSTRUCTED AS IT WAS DESIGNED AND ITS CURRENT CONDITION TO BE AS PER THAT DESIGN. NO RELIANCE FROM BURO HAPPOLD CAN BE ASSUMED UPON THE CURRENT CONDITION OF THAT SLOPE, NOR ON THE DELIVERED CONDITION OF THE CONSTRUCTION HAVING MET THE REQUIREMENTS OF THAT ORIGINAL DESIGN AT CONSTRUCTION.

EXISTING DOCUMENTS BY OTHERS THAT HAVE BEEN REFERRED TO FOR THE GROUND ENGINEERING ASSESSMENT
THE FOLLOWING DOCUMENTS HAVE BEEN CONSULTED TO UNDERSTAND THE EXISTING CONDITIONS:

- BURO HAPPOLD. DOCUMENTS AND DRAWINGS:
  - GENERIC QUANTITATIVE RISK ASSESSMENT. ETC-BHE-ZX-XX-RP-CG-0003, REV P01 DATED FEBRUARY 2023.
  - EXISTING SITE INVESTIGATION. ETC-BHE-ZX-XX-DR-CG-1001. REV P02 DATED DECEMBER 2022.
  - GROUNDWATER MONITORING. ETC-BHE-ZX-XX-DR-CG-1009. REV P01 DATED FEBRUARY 2022.
  - GEOTECHNICAL INTERPRETIVE REPORT. NSE-BHE-XX-XX-RP-CG-000002. REV P01 (YET TO BE ISSUED).
- LAING O'ROURKE. DOCUMENTS AND DRAWINGS:
  - APPROVAL IN PRINCIPLE DOCUMENT OF SPORTCITY STADIUM STOP REINFORCED EARTH WALLS. MPT3A-EM2-08-KRP-603, VER 1, REVISION P02 DATED APRIL 2010.
  - METROLINK PHASE 3A SPORTCITY RETAINING WALLS AND STOP GEOTECHNICAL REPORT. MPT3A-EM2-00-GRP-401, REVISION Q01 DATED APRIL 2010.
  - REINFORCED EARTH WALL GENERAL LAYOUT. MPT3A-EM2-08-KDG-740, REV P01 DATED JANUARY 2010.
  - REINFORCED EARTH WALL CROSS SECTIONS. MPT3A-EM2-08-KDC-741, REV P01 DATED JANUARY 2010.
  - REINFORCED EARTH WALL CROSS SECTIONS. MPT3A-EM2-08-KDC-746, REV P01 DATED JANUARY 2010.
  - SPORTCITY – STADIUM STOP FENCING. MPT3A-EM2-08-LDG-635, REV Q02 DATED JULY 2011.
  - SPORTCITY CITY STADIUM STOP GENERAL ARRANGEMENT OF FENCE FOUNDATIONS. MPT3A-EM2-08-KDG-722, REV Q03 DATED MAY 2011.
  - SPORTCITY STADIUM STOP CANOPY SLAB & EQUIPMENT FOUNDATION GENERAL ARRANGEMENT. MPT3A-EM2-08-KDG-767, REV Q01 DATED JULY 2011.
- PHI GROUP RETAINING STRUCTURES. DOCUMENTS AND DRAWINGS:
  - TEXTOMUR SLOPES DESIGN CERTIFICATE. DS/33155/C DATED MAY 2010.
  - DETAILS OF TEXTOMUR SLOPES. T33155/1, REV F DATED MARCH 2010.
  - DETAILS OF TEXTOMUR SLOPES. T33155/3, REV E DATED MARCH 2010.
- NORTHERN FOUNDATIONS. BOREHOLE LOGS, DATED 1991.
- NORWEST HOLST. REPORT ON A GROUND INVESTIGATION AT MANCHESTER STADIUM – PHASE 1, VOLUME 1 DATED AUGUST 1999.
- MAY GURNEY. SITE INVESTIGATION FINAL FACTUAL REPORT. S/1565, REV 1 DATED MARCH 2010.
- CCG. BRADFORD PROJECT, MANCHESTER. GROUND INVESTIGATION FOR PROPOSED SHAFT FACTUAL REPORT. CCG-C-20-11908, DATED NOVEMBER 2020.
- MCFC. PROPOSED LAYOUT DRAWINGS. MCFC LOGISTICS LAYOUT REV15.1, SENT APRIL 2023.

DESIGN ASSUMPTIONS

- THE DESIGN OF THE REINFORCED EARTH BY PHI GROUP IS ASSUMED TO BE CAPABLE TO WITHSTAND THE ADDITIONAL SURCHARGE AND REMAIN STABLE WITH AN APPROPRIATE FACTOR OF SAFETY.
- THE REINFORCED EARTH PARAMETERS (ANGLE OF FRICTION OF 40°) IS TAKEN FROM PHI GROUP DESIGN CERTIFICATE. NOTE THAT THE REINFORCED EARTH COMPRISES GEOGRID REINFORCING ELEMENTS AND SELECTED COMPACTED GRANULAR FILL, THEREFORE. REINFORCED EARTH PARAMETERS ARE HIGHER THAN THE GRANULAR FILL PARAMETERS.
- SLOPE STABILITY ANALYSIS FOLLOWING EC7 HAS BEEN UNDERTAKEN WITH THE LISTED LOADS BELOW. ANALYSIS SHOWS MINIMUM CHANGE IN THE FACTOR OF SAFETY AND THERFORE STABLE SLOPE.
- PRESSURE FROM THE CROWD BARRIER IS ASSUMED TO BE 2KN/M2 (PERMANENT), PRESSURE IS DERIVED FROM CROWD BARRIER VERTICAL LOAD OF 1KN/M AND HORIZONTAL LOAD OF 3KN/M AT 1.1M ABOVE THE PROPOSED GROUND LEVEL.
- PEDESTRIAN SURCHARGE OF 5KN/M2 (VARIABLE) BEHIND THE CROWD BARRIER FOUNDATION. THE SURCHARGE MAGNITUDE IS BASED ON BS6399:PART 1:1996 – AREAS SUSCEPTIBLE TO OVERCROWDING.

MATERIAL SPECIFICATION

REFER TO THE BH SPECIFICATION FOR STRUCTURAL CONCRETE NSE-BHE-NS-ZZ-SP-S-000001

STRUCTURAL CONCRETE WILL BE IN ACCORDANCE WITH BS 8500-2 AND BS EN 206-1
C32/40 XC4 + DC-2 FREEZE-THAW RESISTANT

REINFORCEMENT SHALL BE TYPE 2 DEFORMED BARS WITH A YIELD STRENGTH OF 500N/MM2

STRUCTURAL NOTES

GENERAL

ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM.

ALL DIMENSIONS ARE IN mm UNO.

DO NOT SCALE FROM BUROHAPPOLD DRAWINGS.

DO NOT DERIVE DIMENSIONS FROM DIGITAL MEDIA.

FOR DETAILS OF BUILDING SETTING OUT REFER TO ARCHITECTS DRAWINGS. ALL GRID SETTING OUT, DIMENSIONS, LEVELS AND REFERENCE POINTS SHOWN ON BUROHAPPOLD DRAWINGS SHOULD BE CONFIRMED BY THE ARCHITECT PRIOR TO START ON SITE.

ANY DISCREPANCIES IN DIMENSIONS SHALL BE REFERRED TO THE ARCHITECT, CONTRACT ADMINISTRATOR & ENGINEER AND RESOLVED BEFORE ANY WORK COMMENCES.

ALL BUROHAPPOLD DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS, BUILDING SERVICE AND STRUCTURAL ENGINEERS DRAWINGS, SPECIFICATIONS AND REPORTS AND ANY OTHER APPROVED DOCUMENT

ALL DIMENSIONS RELEVANT TO EXISTING BUILDINGS AND ANY OTHER EXISTING FEATURES SHALL BE CONFIRMED BY THE CONTRACTOR BEFORE CONSTRUCTION OR FABRICATION WORKS ARE COMMENCED.

ALL BUILDERS WORK OPENINGS TO BE REVIEWED BY STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

THE MAIN CONTRACTOR SHOULD ALLOW FOR AND CO-ORDINATE WITH APPROPRIATE SUBCONTRACTORS FOR ALL SECONDARY ELEMENTS. ALL FIXINGS DETAILS TO BE REVIEWED BY STRUCTURAL ENGINEER PRIOR TO FABRICATION.

THE MAIN CONTRACTOR IS RESPONSIBLE FOR CO-ORDINATING ALL ASPECTS OF THEIR WORK, INCLUDING TRADE-CONTRACTORS WORK.

THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY CHANGES THEY OR THEIR SUBCONTRACTOR MAKE AS A RESULT OF UNEXPECTED CONDITIONS OR CHANGES IN DESIGN THAT MAY IMPACT THE INTEGRITY OF THE STRUCTURE

WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EUROCODES, SPECIFICATIONS, BEST PRACTICE AND OTHER RELEVANT CODES OR REGULATIONS APPLICABLE AT THE TIME

ABBREVIATIONS
GA - GENERAL ARRANGEMENT
OD - ORDNANCE DATUM
RC - REINFORCED CONCRETE
SSL - STRUCTURAL SLAB LEVEL
SW - SELF WEIGHT
TBC - TO BE CONFIRMED
TOC - TOP OF CONCRETE
TYP - TYPICAL
UNO - UNLESS NOTED OTHERWISE
Ø - DIAMETER

SUBSTRUCTURE GENERALLY

ALL FOUNDATIONS TO BE IN ACCORDANCE WITH THE LATEST BS EN 1997.

REFER TO ANY FACTUAL GROUND INVESTIGATION AND CONTAMINATION REPORTS

THE FINAL SURFACE OF ALL FORMATIONS SHALL BE WELL ROLLED, SMOOTH AND FREE FROM MOVEMENT UNDER COMPACTION PLANT, RIDGES, CRACKS , LOOSE MATERIALS, RUTS OR OTHER DEFECTS AND CLEAN, FREE OF DETRITUS. ANY OPEN FRACTURE/JOINT SHOULD BE FILLED. FORMATION MUST ALSO BE PROTECTED FROM INCLEMENT WEATHER AND MUST BE DRY PRIOR TO POURING BLINDING.

ALL HOLDING DOWN BOLTS, BOLT BOXES, POCKETS, CAST-IN PLATES ETC TO BE COORDINATED WITH STEELWORK SUB-CONTRACTOR AND PLACED BY CONCRETE SUB-CONTRACTOR.

ANY UNFORSEEN OBSTRUCTIONS, REDUNDANT UTILITIES ETC AND ANY SOFT SPOTS UNDER NEW FOUNDATIONS ARE TO BE ADVSED TO THE ENGINEER IMMEDIATELY AND ANY ACTION AGREED BEFORE PROCEEDING.

50MM CONCRETE BLINDING (UNO) TO BE PLACED UNDER ALL REINFORCED CONCRETE ELEMENTS IN CONTACT WITH THE GROUND, CAST WITH A SMOOTH AND LEVEL FINISH.

CONTRACTOR TO PROVIDE ALL REQUIRED TEMPORARY SUPPORT AND DEWATERING TO EXCAVATIONS

SUBSTRUCTURE – SHALLOW FOUNDATIONS

BEARING STRATA FOR SHALLOW FOUNDATIONS, GROUND BEARING SLABS AND RETAINING WALLS ARE TO ACHIEVE A MINIMUM ALLOWABLE BEARING PRESSURE OF tbc KN/M2. FOUNDATION SIZES AND / OR BEARING DEPTHS TO BE ADJUSTED AS DIRECTED BY ENGINEER IF ALLOWABLE BEARING PRESSURE IS NOT ACHIEVED. MASS CONCRETE MAYBE USED TO MAKE UP LEVELS.

ALL FOUNDATION DEPTHS SHOWN ON DRAWINGS ARE A MINIMUM DEPTH.

THE ENGINEER MAY VARY THE LEVEL OF ANY FOUNDATION IF THEY CONSIDERS THE FORMATION STRATA IS NOT SUITABLE.

A COMPETENT ENGINEER FROM THE CONTRACTORS TEAM IS TO INSPECT ALL FOUNDATION FORMATIONS AND ANY PLATE BEARING TESTS AND INFORM THE ENGINEER IMMEDIATELY IF THE STATED ALLOWABLE BEARING PRESSURE IS NOT ACHIEVED OR THE GROUND CONDITIONS ARE NOT AS EXPECTED. THEY ARE TO SEEK GUIDANCE FROM THE ENGINEER AND MODIFY THE CONSTRUCTION DETAILS ACCORDINGLY.

STRUCTURAL CONCRETE

ALL CONCRETE TO BE IN ACCORDANCE WITH THE LATEST REVISION OF BS EN 1992 AND BS EN 13670

ALL WORKS TO BE IN ACCORDANCE WITH BUROHAPPOLD IN-SITU CONCRETE SPECIFICATION

ALL MIX DESIGNS TO BE SUBMITTED FOR REVIEW BY STRUCTURAL ENGINEER AT LEAST TWO WEEKS PRIOR TO THE RELEVANT POUR

CONTRACTOR TO PROVIDE POUR SEQUENCE, CONSTRUCTION JOINT LOCATIONS AND CURING METHOLOGY FOR REVIEW BY STRUCTURAL ENGINEER AT LEAST TWO WEEKS PRIOR TO THE RELEVANT POUR

CONSTRUCTION JOINTS SHOULD BE CLEANED AND LOOSE CONCRETE / DEBRIS REMOVED AND ROUGHENED PRIOR TO CONCRETING THE ADJACENT POUR.

NO HOLES, CHASES, RECESSES OR OTHER OPENINGS (NOT INDICATED ON THE STRUCTURAL DRAWINGS) TO BE FORMED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

ALL CONCRETE FACES TO BE CAST AGAINST FORMWORK

ALL CAST-IN OR POST-FIXED FIXINGS TO BE REVIEWED BY STRUCTURAL ENGINEER.

REINFORCEMENT ESTIMATES ARE PROVIDED FOR INITIAL COSTING PURPOSES ONLY AND CAN ONLY BE CONFIRMED WHEN FINAL SCHEDULES HAVE BEEN PROVIDED

ESTIMATES PROVIDE ENGINEERING REQUIREMENTS ONLY, AND DO NOT INCLUDE ADDITIONAL RE-BAR FOR SHEAR STUDS (OR RAILS), TEMPORARY WORKS, SUPPORT CHAIRS ETC. THESE ALLOWANCES DO NOT INCLUDE WEIGHTS OF CAST-IN ITEMS SUCH AS BRACKETS, FAÇADE FIXINGS ETC.

FINISHES

REFER TO ARCHITECTS FOR FINISH REQUIREMENTS.

RUST STAINING OF FORMWORK TO SURFACES OF CONCRETE WHICH WILL BE EXPOSED TO VIEW IN THE FINISHED WORK TO BE AVOIDED

CONCRETE REINFORCEMENT
ALL DETAILING, REINFORCEMENT AND LAPS TO BE IN ACCORDANCE WITH LATEST BS EN 1992 AND ISTRUCTE STANDARD METHOD OF DETAILING.

REINFORCEMENT DENOTED 'H' TO BE GRADE 500B OR 500C STEEL REINFORCING BARS IN ACCORDANCE WITH BS4449 (YIELD STRENGTH = 500MPa) UNLESS NOTED OTHERWISE.

ALL WIRE MESH SHALL BE IN ACCORDANCE WITH BS 4482 AND BS 4483.

NO REINFORCING BARS TO BE CUT, BENT OR DISPLACED ON SITE WITHOUT PRIOR APPROVAL OF THE ENGINEER

ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED CHAIRS, SPACERS OR SUPPORT BARS. THESE TEMPORARY ELEMENTS WILL NOT BE SHOWN ON BH REINFORCEMENT DRAWINGS OR INCLUDED IN REBAR ESTIMATES

ALL REINFORCEMENT MUST BE STORED OFF THE GROUND AND STACKED IN A WAY THAT IT DOES NOT BEND, BUCKLE OR SAG.

ALL REINFORCEMENT MUST BE PROTECTED FROM CONTAMINATION BY GREASE, OIL, MUD OR OTHER MATTER.

ALL REINFORCEMENT MUST BE FREE FROM EXCESSIVE RUST SCALE AT TIME OF CONCRETING.

REINFORCEMENT IS TO BE BENT IN ACCORDANCE WITH BS 8666 AND IS NOT TO BE REBENT WITHOUT PRIOR APPROVAL.

BAR LAP LENGTHS IN ACCORDANCE WITH BS EN 1992.

LAPS TO FABRIC REINFORCEMENT TO BE 400mm MIN. OR AT LEAST 2 WIRE PITCHES, WHICHEVER IS GREATER

NOMINAL COVER (UNO)

FOUNDATIONS (SIDES/BASE CAST ON BLINDING)	50mm
ALL EXPOSED EXTERNAL CONCRETE FACES	35mm

PROPRIETARY FIXINGS / ANCHORS

THE CONTRACTOR SHALL COMPLETE THE DESIGN AND CO-ORDINATION OF ALL FIXINGS AND ANCHORS TO ENGINEERING REQUIREMENTS

CONTRACTOR SHALL INSTALL ALL FIXINGS AND ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

FIXINGS AND ANCHORS SHOULD BE TESTED IN ACCORDANCE WITH MANUFACTURERS GUIDANCE AND BE CARRIED OUT BY A COMPETENT PERSON.

CAST-IN FIXINGS AND ANCHORS ARE PREFERRED. WHERE THIS IS NOT POSSIBLE POST-FIXED ANCHORS SHOULD BE LOCATED USING A COVER METER TO DETERMINE REINFORCEMENT LOCATIONS. REINFORCEMENT MUST NOT BE CUT WITHOUT CONFIRMATION/AGREEMENT OF THE ENGINEER

FABRICATION DRAWINGS

ALL RELEVANT FABRICATION DRAWINGS TO BE GIVEN STATUS A, B OR C, AS ILLUSTRATED BELOW, BASED ON REVIEW OF OVERALL DESIGN AND GENERAL ARRANGEMENT ONLY AND IS SUBJECT TO CONTRACT DOCUMENTS.

THE ENGINEER'S COMMENTS ON THE SHOP DRAWINGS SHALL NOT RELIEVE THE TRADE CONTRACTOR OF THEIR RESPONSIBILITY TO COORDINATE, CHECK QUANTITIES AND DIMENSIONS AND ENSURE THE INTEGRATION WITH THE REMAINDER OF THE WORK IN ANY WAY.

THE TRADE CONTRACTOR SHALL SUBMIT A METHOD STATEMENT TO THE ENGINEER FOR REVIEW AT LEAST TWO WEEKS BEFORE ERECTION COMMENCES. ERECTION SHALL NOT COMMENCE BEFORE THE ENGINEER HAS REVIEWED THE METHOD STATEMENT.

BUROHAPPOLD ENGINEERING

This drawing has been reviewed and the following **ACTION** is noted:

A	Fabrication, Manufacture or Construction may proceed	
B	Fabrication, Manufacture or Construction may proceed as per comments. Ensure fabrication will comply with the notations, the shop drawing is to be amended and re-submitted	
C	Shop drawing does not comply with the Contract Documents. Re-submit shop drawing.	

Drawing reviewed for design and general arrangements only. Comments made on the drawing and returned above does not relieve the Contractor from responsibility to coordinate all trades and to check quantities and dimensions against construction and working information and environment.

Job Number:

Examined by: MSMC

Date Returned: **21 February 2018**

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DO NOT SCALE THIS DRAWING.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING.

CONSTRUCTION. THE NEW PROPOSED BARRIER FOUNDATION IS TO BE CONSTRUCTED ON THE TOP OF AN EXISTING SLOPED BANK WITH A METROLINK PLATFORM BELOW AND ADJACENT TO EXISTING INFRASTRUCTURE, INCLUDING THE EXISTING TURNSTILE AREA, BARRIERS, OVERHEAD CANOPY AND EXISTING REINFORCED EARTH SLOPE TO THE WEST. METROLINK PLATFORM TO THE NORTH AT THE BOTTOM OF THE SLOPE AND AN EXISTING BRIDGE TO THE NORTH WEST. SPECIFIC GI INFORMATION FOR THE SITE OF THE PROPOSED FOUNDATION IS NOT CURRENTLY AVAILABLE.

MAINTENANCE/CLEANING/OPERATION.

DECOMMISSIONING/DEMOLITION.

Notes

1. PLEASE REFER TO THE NOTES PRESENTED ON THE SHEET

Rev	Description	Date	Drn	Appd
P03	S0W ISSUE	21.06.2023	PL	TF
P02	S0W ISSUE	19.05.2023	PL	TF
P01	S0W METROLINK - re-issue	05.05.2023	PL	TF

SITE IMPROVEMENT WORKS

Project Stage

S2 - FOR INFORMATION

Status of Drawing

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Client: *Manchester City Football Club*
Architect: *Populous*
Project: **MCFC North Stand**
Drg Title: SIW - Metrolink Sections & Details

Job No.	Scale@ A0
053810	**As indicated**

Drawn By	Checked By	Approved By
RC	**AS**	**TF**

Drawing No.: **NSE-BHE-NS-XX-DR-S-009002**
Revision: **P03**