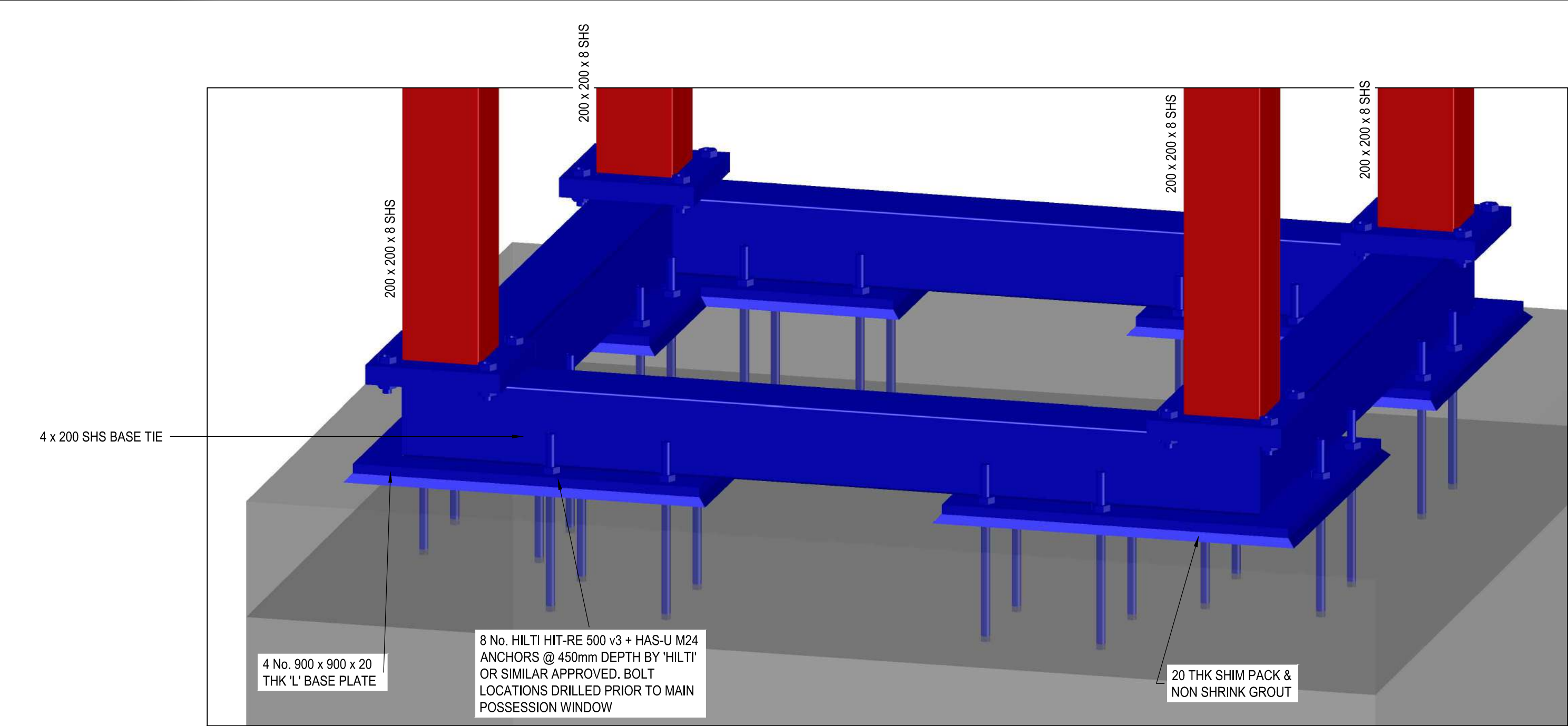
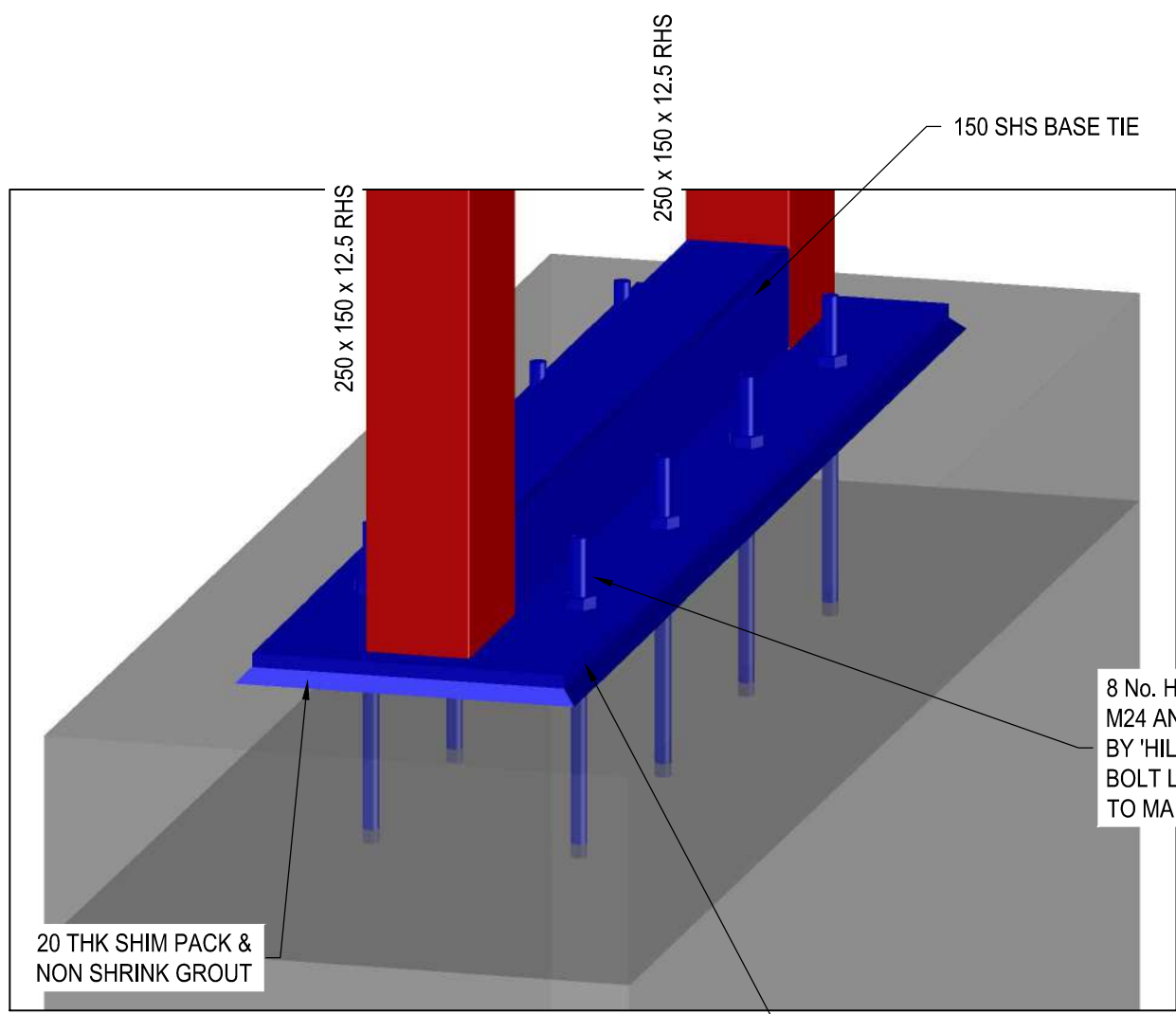
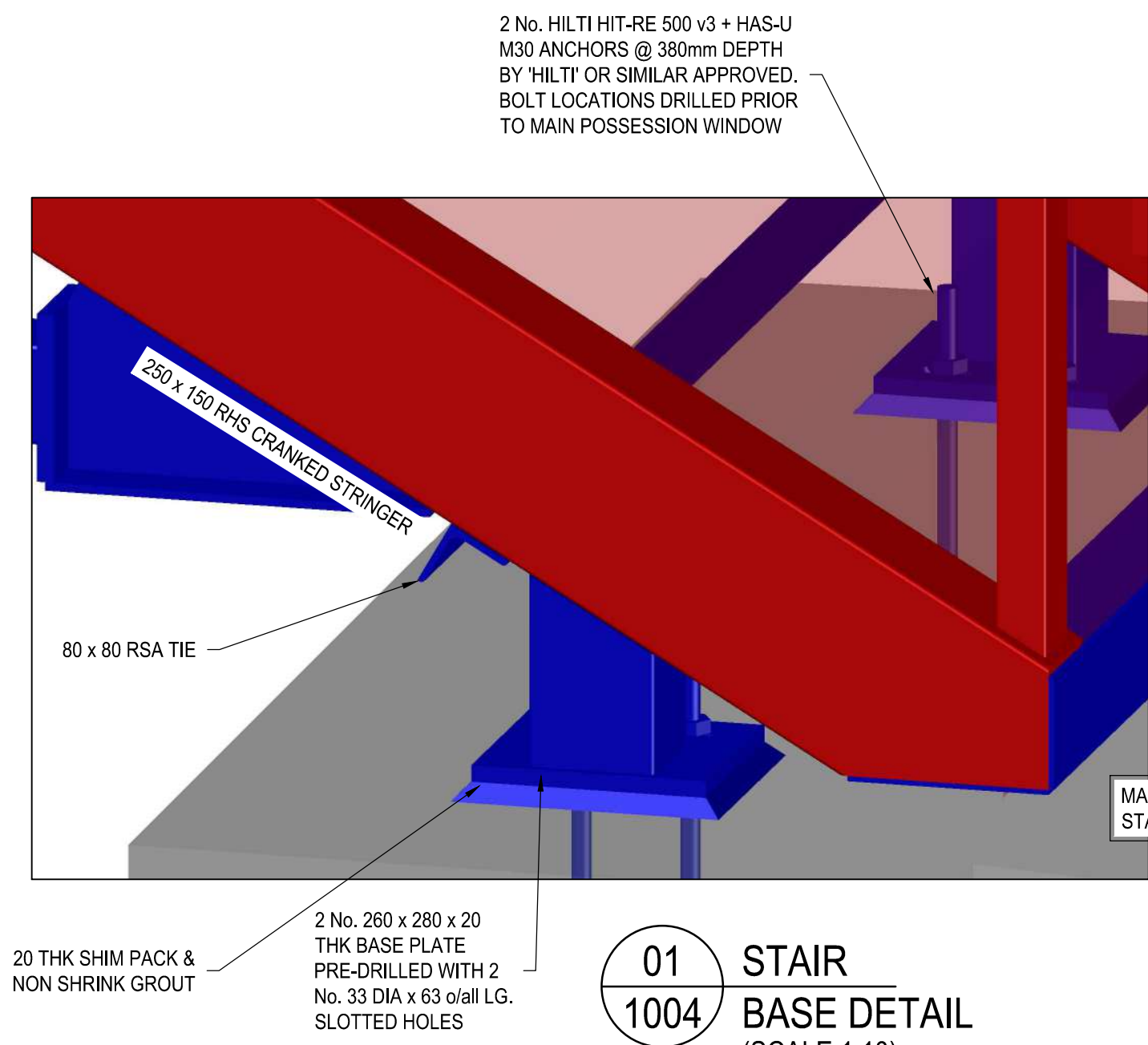




03
1004 MAIN TRESTLE
BASE DETAIL
(SCALE 1:10)

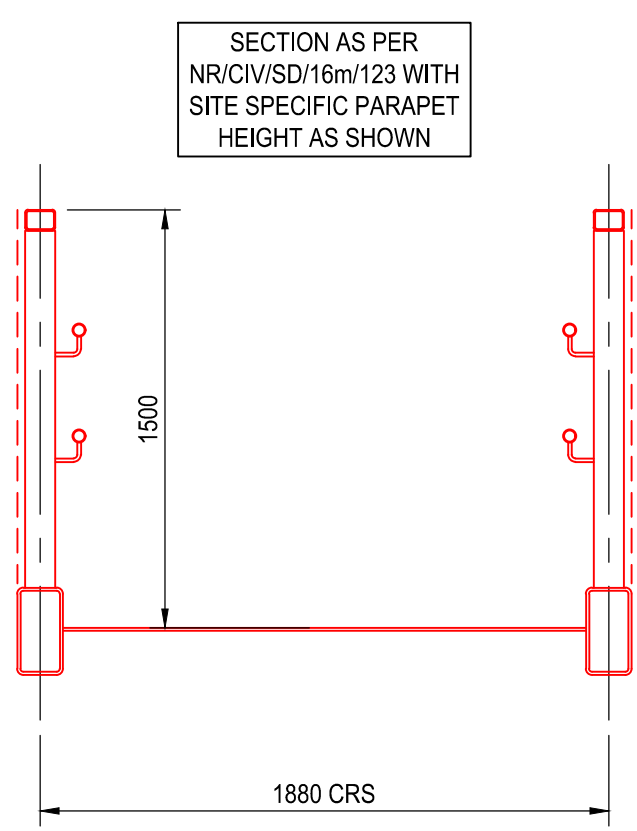


02
1004 STAIR TRESTLE
BASE DETAIL
(SCALE 1:10)

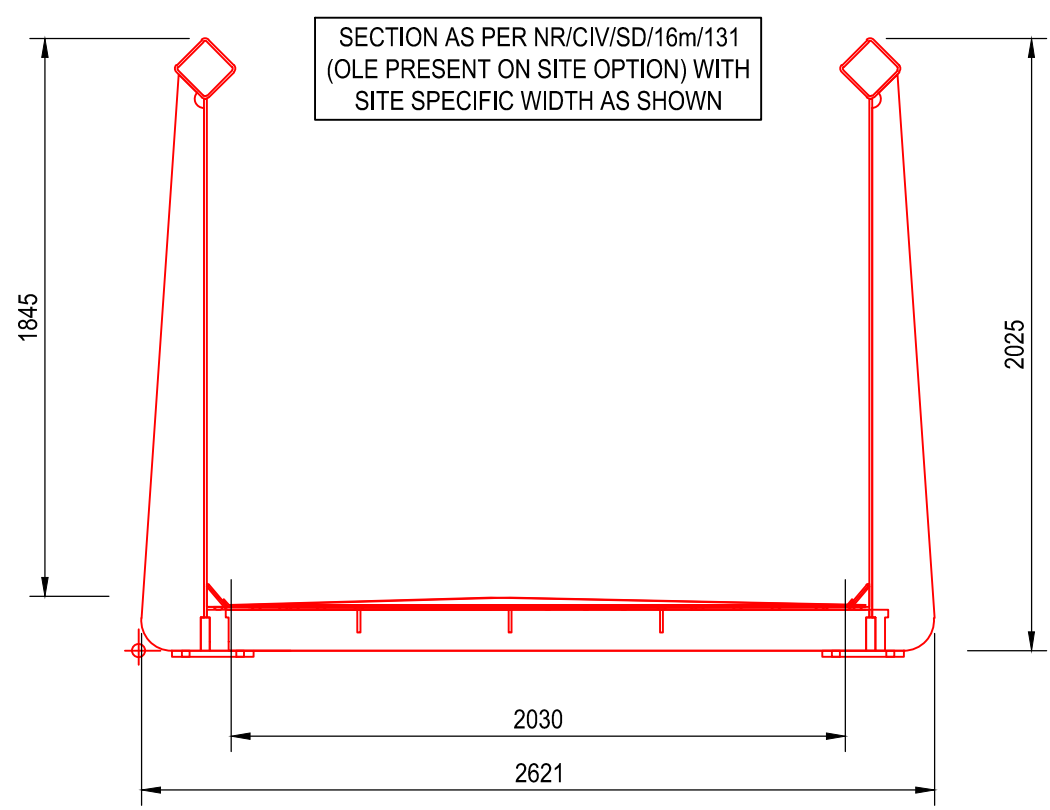


01
1004 STAIR
BASE DETAIL
(SCALE 1:10)

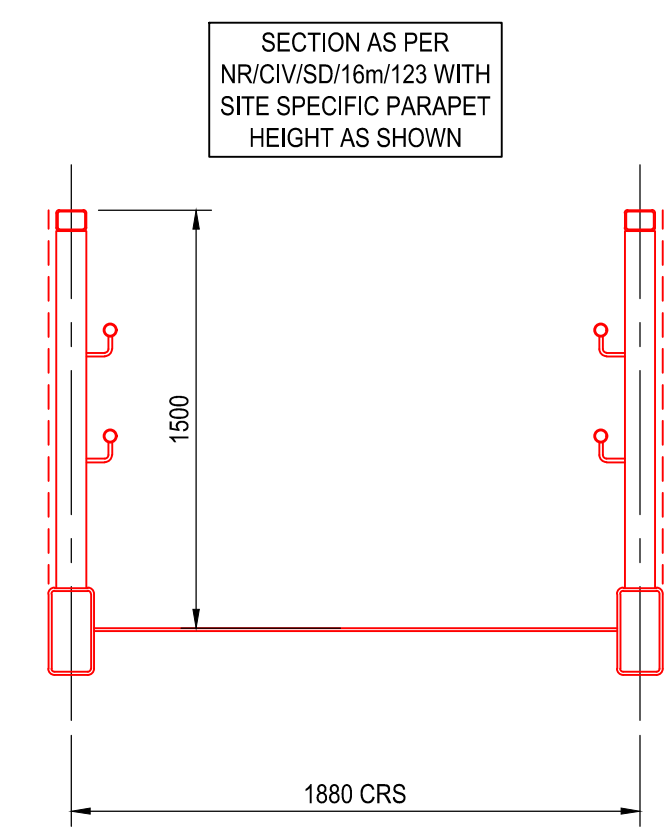
NOTE:
FOUNDATION INSPECTED
FOR VOIDS AND REPAIRED
PRIOR TO MAIN POSSESSION
WINDOW



A
1004 SECTION - STAIRS
DOWNSIDE
(SCALE 1:25)



B
1004 SECTION
MAIN SPAN
(SCALE 1:25)



C
1004 SECTION - STAIRS
UPSIDE
(SCALE 1:25)

PROPOSED
FOOTBRIDGE

Safety, Health and Environment information		
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant risks		
Construction		
C01		Electrocution risk due to OLE when working prior to main isolated possession window
C02		Electrocution risk when removing/altering existing lighting cabling from footbridge
C03		Falling from height installing new footbridge
C04		Injury or death from being struck by a train
C05		Risk of failure and damage to temporary works if not adequately designed.
C06		Risk associated with voiding of concrete and damaging existing foundations
CO7		Craneage operations during replacement
C08		Instability of bridge if existing structural elements removed at the same time.
C10		Lead poisoning if paint exposure not adequately controlled during removal of existing bridge
C09		Manual handling risks during replacement operation
O1		Public use and operation
O2		Maintenance works
D1		Demolition risks as construction risks

Our Lifesaving Rules

A	B	C	D	E	F	G	H	J	K
---	---	---	---	---	---	---	---	---	---

GENERAL NOTES

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- ORDNANCE SURVEY MAP DATA REPRODUCED BY PERMISSION OF ORDNANCE SURVEY ON BEHALF OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT. ALL RIGHTS RESERVED. ORDNANCE SURVEY LICENCE NUMBER 100019980.
- DO NOT SCALE FROM THIS DRAWING. ALL DIMENSIONS MUST BE CHECKED/VERIFIED ON SITE.
- ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE EMPLOYERS REPRESENTATIVE IMMEDIATELY.
- ALL LEVELS AND TOPOGRAPHICAL INFORMATION TAKEN FROM 'GCS' REF: GCS-JBA-ARDWICK-1.
- SEE DRG. No. 1000 FOR ADDITIONAL GENERAL NOTES.

ARDWICK STATION

LOCATION PLAN
(Scale: N.T.S.)

UTILITY SERVICES INVESTIGATION GAUGE TO PAS 128			
	TYPE D: DESK STUDY		
	TYPE C: DESK STUDY AND SITE RECONNAISSANCE		
	TYPE B: DESK STUDY WITH SITE RECON AND UTILITY DETECTION SURVEY		
	TYPE A: DESK STUDY WITH SITE RECON, UTILITY DETECTION SURVEY & TRIAL HOLES		
TYPE D	TYPE C	TYPE B	TYPE A
08/04/21			

THE POSITION OF ANY EXISTING PUBLIC OR PRIVATE SEWERS, UTILITY SERVICES, PLANT OR APPARATUS SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM STATUTORY RECORDS. THE INFORMATION SHOWN IS BELIEVED TO BE CORRECT BUT NO WARRANTY TO THIS IS EXPRESSED OR IMPLIED. OTHER SUCH PLANT OR APPARATUS MAY ALSO BE PRESENT BUT NOT SHOWN. INVESTIGATIONS SHOULD BE UNDERTAKEN ON SITE CONFIRMING LOCATIONS BEFORE BREAKING GROUND.

KEY

- EXISTING OR UNCHANGED
- MODIFIED DETAIL FROM STANDARD DESIGN DETAILS, OR NEW STEELWORK NOT FROM STANDARD DESIGN DETAILS
- REDUNDANT OR TO BE REMOVED
- NEW, PROPOSED OR ADDITIONAL
- EXISTING CABLEING
- BT - BRITISH TELECOM - EXISTING
- E - ELECTRICITY - EXISTING
- G - GAS - EXISTING
- OH - OVERHEAD CABLE - EXISTING

CO1	03/06/21	APPROVED FOR CONSTRUCTION	IJP	NF	AT
P02	14/05/21	F003 SUBMISSION	IJP	NF	AT
P01	30/04/21	F003 PRELIMINARY REVIEW	IJP	NF	AT
Description of Revisions			Drawn	Chkd	Appr

Status
A4

Network Rail LNW
Edgeley 9B
Stockport Road
Stockport
SK3 9QS

Consultant

JBA Consulting
35 Perrymount Road
HAYWARDS HEATH
West Sussex
RH16 3BW
Tel: 01444 473 652

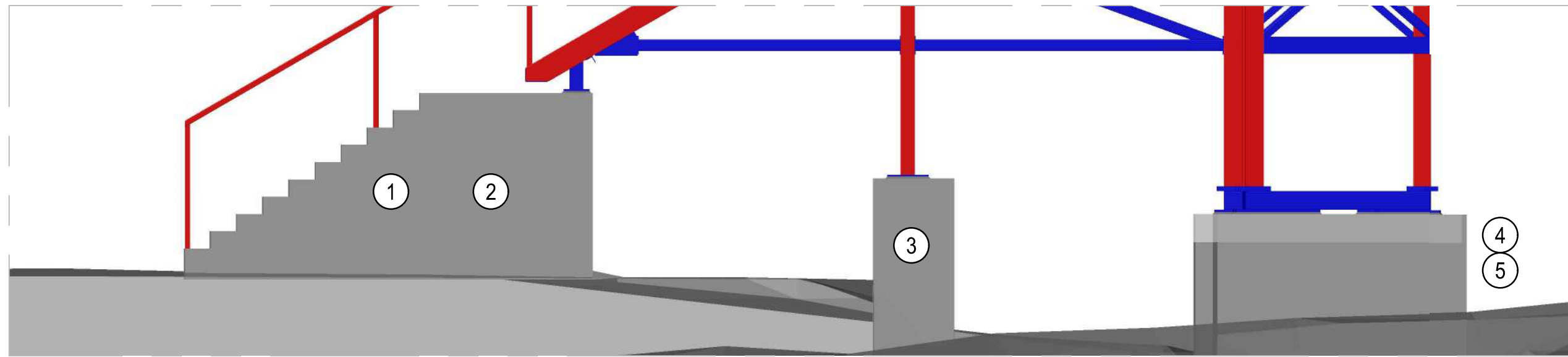
Project

NORTH WEST & CENTRAL (NW & C)
ARDWICK & HARRINGTON FOOTBRIDGES

Drawing Title

ARDWICK STATION
FOOTBRIDGE HAJ/3
REPLACEMENT WORKS
PROPOSED ELEVATIONS SHT 2 OF 2

Designed	N. Fenwick	Signed	N.F.	Date	25/01/21
Drawn	R. Groves	Signed	R.G.	Date	25/01/21
Checked	D. Wardill	Signed	D.W.	Date	22/02/21
Approved	A. Tyndel	Signed	A.T.	Date	22/02/21
Scale(s)	As Shown @ A1				
Alternative Reference	2020s1501			Sheet 7	
Drawing Number	EPT-JBAU-00-02-DR-C-1006			Revision C01	



E
1004
ELEVATION
DOWNSIDE
(SCALE 1:50)



- TABLE OF REPAIRS (INDICATIVE - EXACT EXTENT TO BE AGREED WITH THE EMPLOYERS REPRESENTATIVE):
- VEGETATION REMOVED FROM EXISTING DOWNSIDE STAIRCASE.
 - REPOINTING ON JOINTS ON ALL FACES WHERE JOINTS ARE LOOSE AND HAVE BEEN REMOVED. APPROX. AREA 6m².
 - REPAIR OF CONCRETE SPALLING ON INTERMEDIATE FOUNDATION. APPROX. EXTENTS 0.85 x 2m². REPOINTING ON JOINTS ON ALL FACES WHERE JOINTS ARE LOOSE AND HAVE BEEN REMOVED. APPROX. AREA 2 x 1m².
 - REPAIR OF CONCRETE SPALLING ON MAIN TRESTLE FOUNDATION. APPROX. EXTENT 2 x 2m².
 - REPOINTING ON JOINTS ON ALL FACES WHERE JOINTS ARE LOOSE AND HAVE BEEN REMOVED. APPROX. AREA 3 x 1m².

Our Lifesaving Rules

everyone home safe every day

A B C D E F G H J K

GENERAL NOTES

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- SEE DRG. No. 1000 FOR ADDITIONAL GENERAL NOTES.

ARDWICK STATION

LOCATION PLAN
(Scale: N.T.S.)

UTILITY SERVICES INVESTIGATION GAUGE TO PAS 128

TYPE D: DESK STUDY

TYPE C: DESK STUDY AND SITE RECONNAISSANCE

TYPE B: DESK STUDY WITH SITE RECON AND UTILITY DETECTION SURVEY

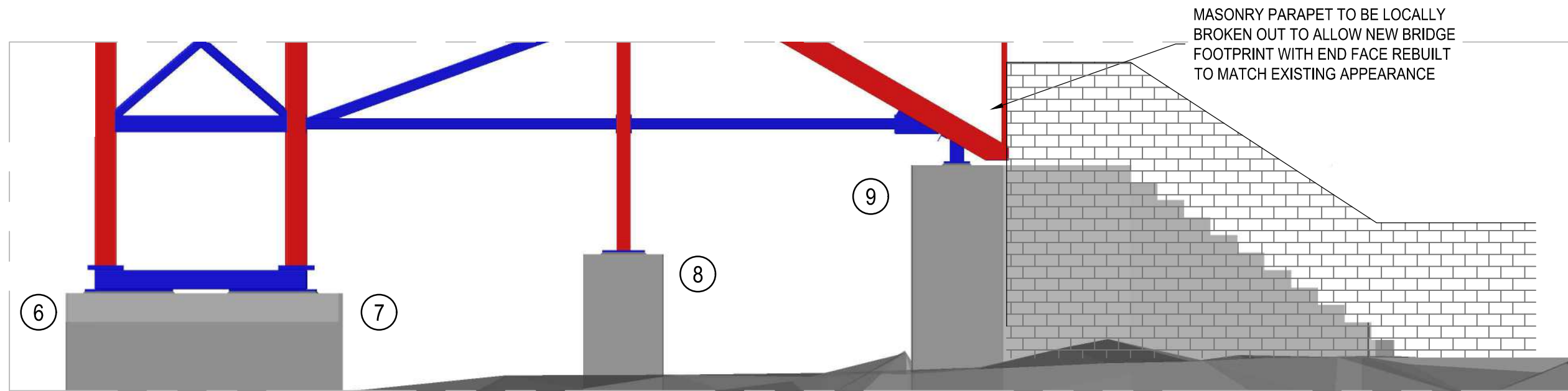
TYPE A: DESK STUDY WITH SITE RECON, UTILITY DETECTION SURVEY & TRIAL HOLES

TYPE D	TYPE C	TYPE B	TYPE A
08/04/21			

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- NEW, PROPOSED OR ADDITIONAL
- EXISTING CABLING
- BT - BRITISH TELECOM - EXISTING
- E - ELECTRICITY - EXISTING
- G - GAS - EXISTING
- OH - OVERHEAD CABLE - EXISTING



F
1004
ELEVATION
UPSIDE
(SCALE 1:50)



- TABLE OF REPAIRS (INDICATIVE - EXACT EXTENT TO BE AGREED WITH THE EMPLOYERS REPRESENTATIVE):
- CORNER CONCRETE SPALLING TO BE REPAIRED. APPROX. AREA 0.5m x 0.5m².
 - MINOR SPALLING ACROSS CONCRETE ON MAIN TRESTLE FOUNDATION TO BE REPAIRED. APPROX. AREA 2 x 2m². REPOINTING ON JOINTS ON ALL FACES WHERE JOINTS ARE LOOSE AND HAVE BEEN REMOVED. APPROX. AREA 3 x 3m².
 - SPALLING ACROSS CONCRETE ON INTERMEDIATE FOUNDATION TO BE REPAIRED. APPROX. AREA 2 x 0.85m². REPOINTING ON JOINTS ON ALL FACES WHERE JOINTS ARE LOOSE AND HAVE BEEN REMOVED. APPROX. AREA 2 x 1m².
 - CONCRETE SPALLING ON UPSIDE STAIRCASE TO BE REPAIRED. APPROX. EXTENT 4 x 2m².

PROPOSED
FOOTBRIDGE

Network Rail LNW Works Delivery Buildings

everyone home safe every day

Network Rail LNW
Edgeley 9B
Stockport Road
Stockport
SK3 9QS

Consultant

JBA Consulting
35 Perrymount Road
HAYWARDS HEATH
West Sussex
RH16 3BW
Tel: 01444 473 652

Project

NORTH WEST & CENTRAL (NW & C)
ARDWICK & HARRINGTON FOOTBRIDGES

Drawing Title

ARDWICK STATION
FOOTBRIDGE HAJ/3
REPLACEMENT WORKS
MASONRY & PLINTH REPAIRS

Designed	N. Fenwick	Signed	N.F.	Date	25/01/21
Drawn	R. Groves	Signed	R.G.	Date	25/01/21
Checked	D. Wardill	Signed	D.W.	Date	22/02/21
Approved	A. Tyndel	Signed	A.T.	Date	22/02/21

Scale(s)

As Shown @ A1

ELR & Mileage
HAJ - 0m 1331 yards

Alternative Reference

2020s1501

Sheet

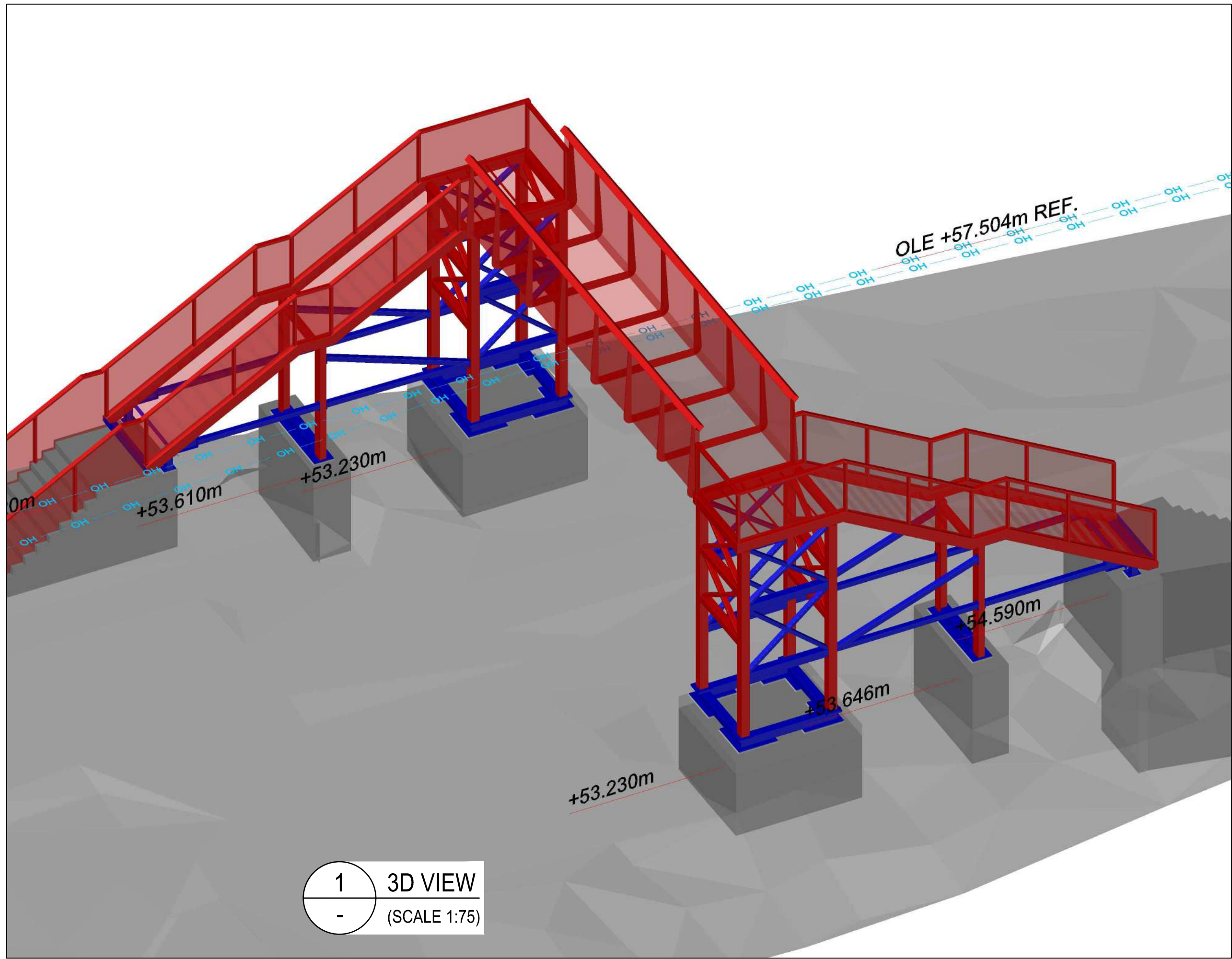
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Drawing Number

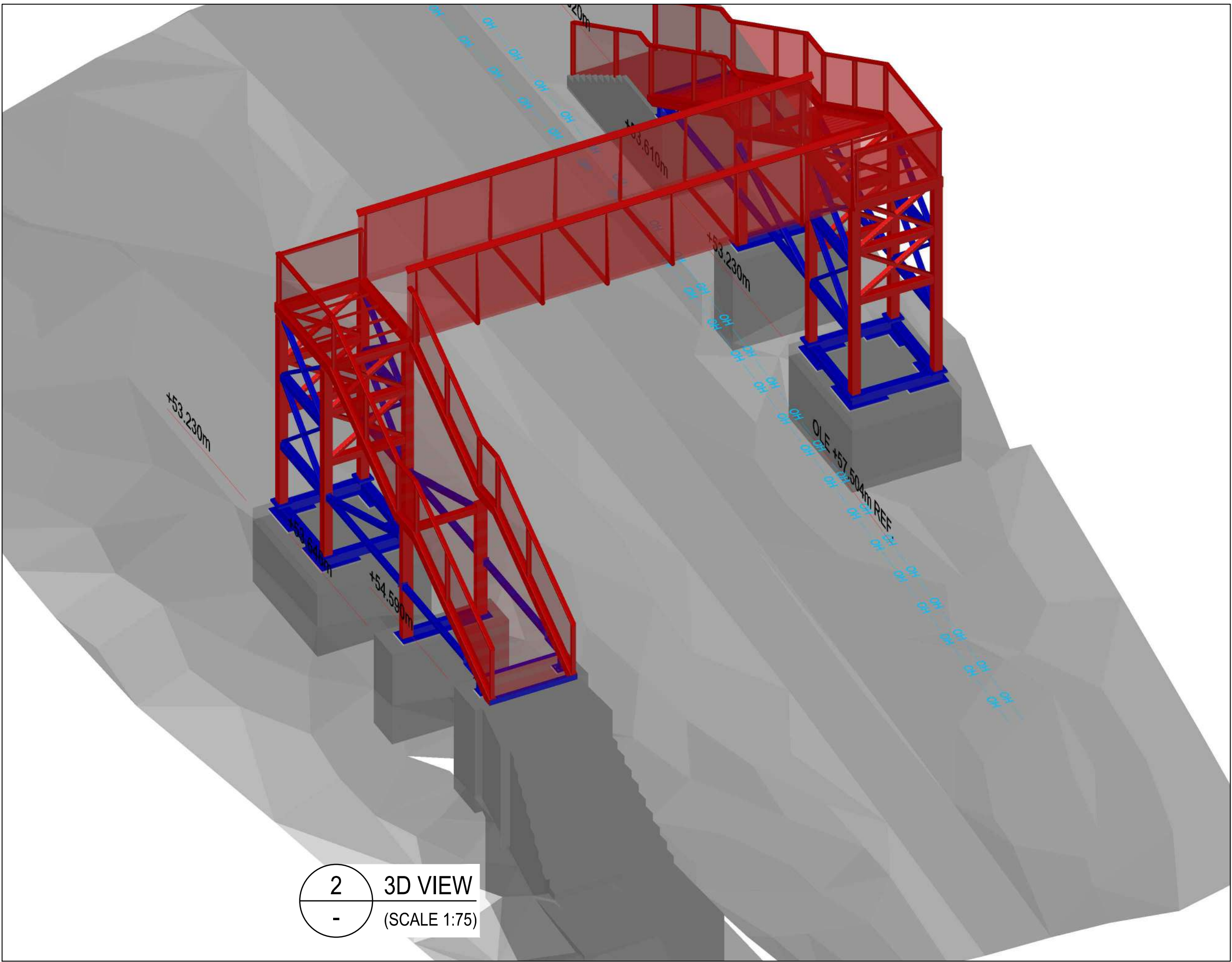
EPT-JBAU-00-02-DR-C-1008

Revision

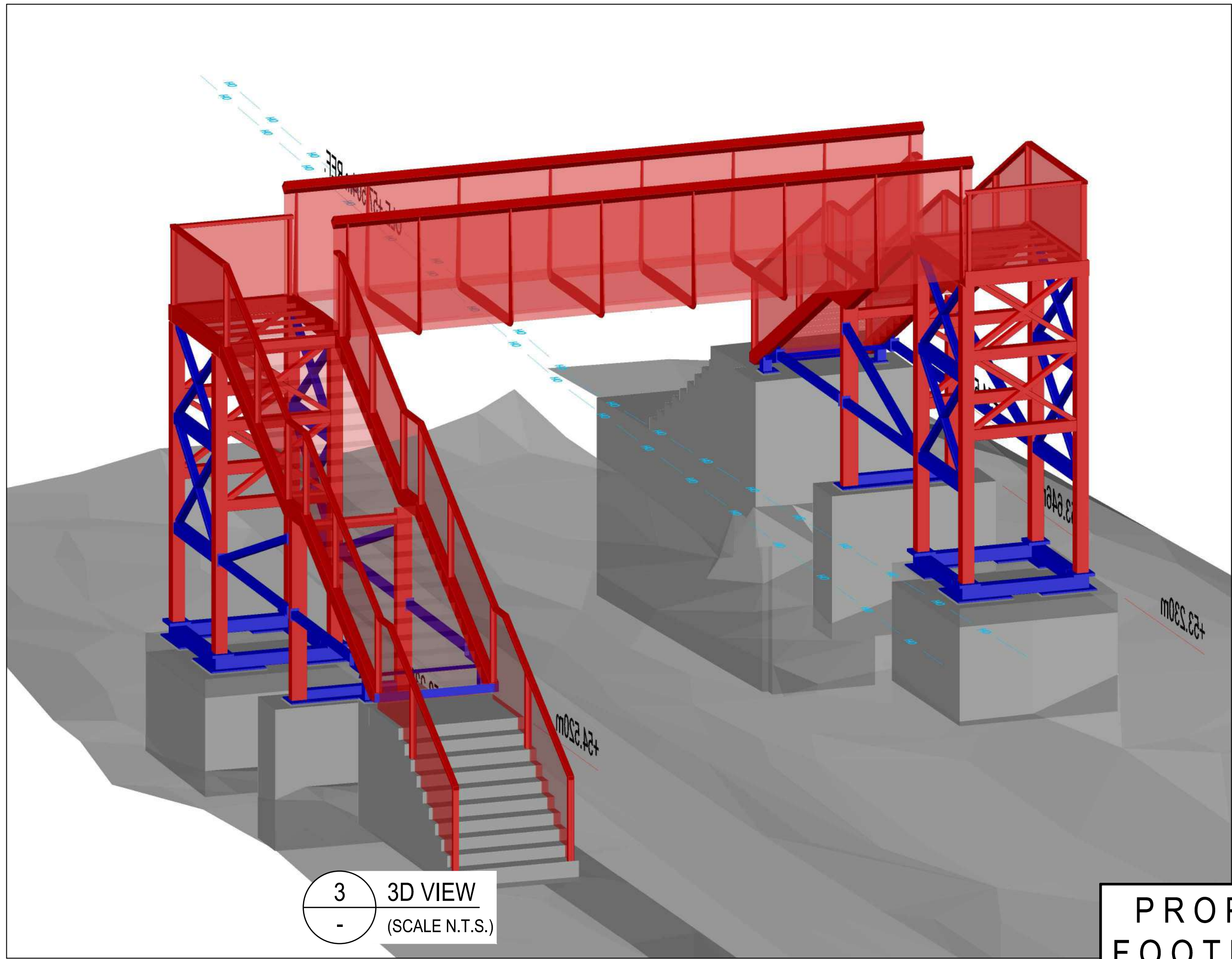
C01



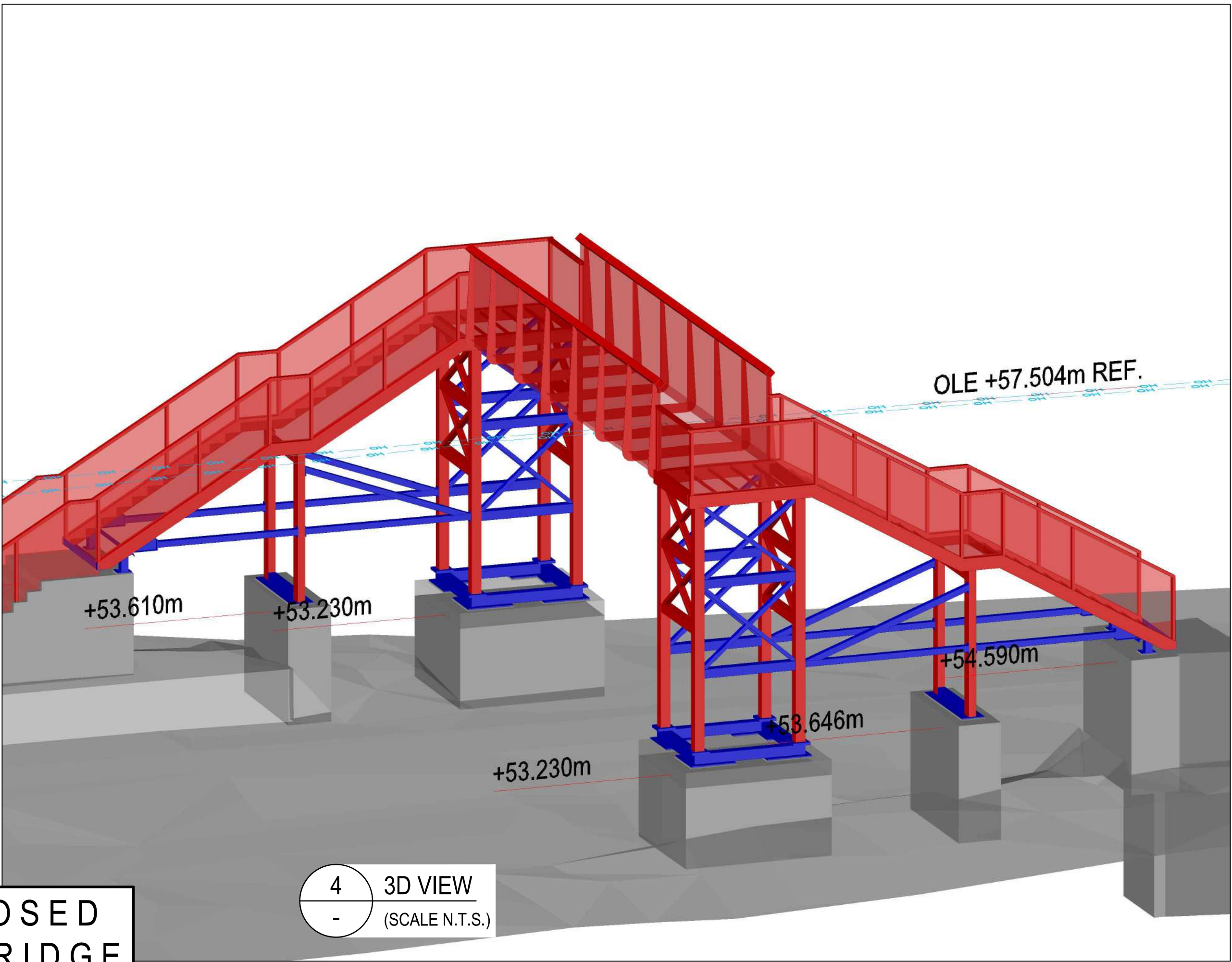
1 3D VIEW
- (SCALE 1:75)



2 3D VIEW
- (SCALE 1:75)



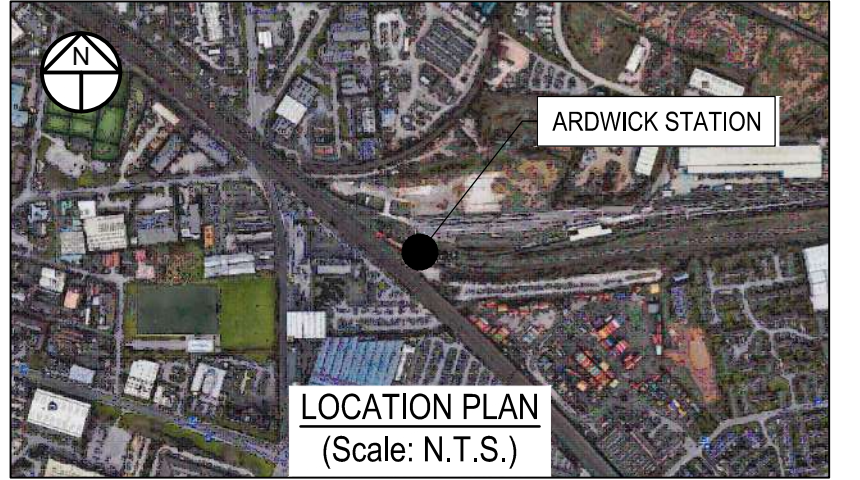
3 3D VIEW
- (SCALE N.T.S.)



4 3D VIEW
- (SCALE N.T.S.)

PROPOSED
FOOTBRIDGE

- GENERAL NOTES
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 6. SEE DRG. No. 1000 FOR ADDITIONAL GENERAL NOTES.



UTILITY SERVICES INVESTIGATION GAUGE TO PAS 128

- TYPE D: DESK STUDY
TYPE C: DESK STUDY AND SITE RECONNAISSANCE
TYPE B: DESK STUDY WITH SITE RECON AND UTILITY DETECTION SURVEY
TYPE A: DESK STUDY WITH SITE RECON, UTILITY DETECTION SURVEY & TRIAL HOLES

TYPE D	TYPE C	TYPE B	TYPE A
08/04/21			

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 - G - GAS - EXISTING
 - OH - OVERHEAD CABLE - EXISTING

CO1	03/06/21	APPROVED FOR CONSTRUCTION	IJP	NF	AT
P02	14/05/21	F003 SUBMISSION	IJP	NF	AT
P01	30/04/21	F003 PRELIMINARY REVIEW	IJP	NF	AT
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Status A4



Network Rail LNW
Edgeley 9B
Stockport Road
Stockport
SK3 9QS

Consultant



JBA Consulting
35 Perryman Road
HAYWARDS HEATH
West Sussex
RH16 3BW
Tel: 01444 473 652

Project

NORTH WEST & CENTRAL (NW & C)
ARDWICK & HARRINGTON FOOTBRIDGES

Drawing Title
ARDWICK STATION
FOOTBRIDGE HAJ/3
REPLACEMENT WORKS
PROPOSED - 3D VIEWS

Designed	N. Fenwick	Signed	N.F.	Date	25/01/21
Drawn	R. Groves	Signed	R.G.	Date	25/01/21
Checked	D. Wardill	Signed	D.W.	Date	22/02/21
Approved	A. Tyndel	Signed	A.T.	Date	22/02/21

Scale(s)
As Shown @ A1
ELR & Mileage
HAJ - 0m 1331 yards

Alternative Reference	2020s1501	Sheet	10
Drawing Number	EPT-JBAU-00-02-DR-C-1009	Revision	C01

ANTICIPATED CONSTRUCTION SEQUENCE INCLUDING DESIGN REQUIREMENTS FOR STRUCTURAL INTEGRITY:

- THE FOLLOWING ANTICIPATED SEQUENCE OF CONSTRUCTION WAS CONSIDERED FOR THE DESIGN:
- MOBILISATION TO SITE. SITE SET UP IN ARDWICK DEPOT;
 - PRIOR TO THE MAIN WORKS POSSESSION WINDOW, THE FOLLOWING WORKS ARE TO BE UNDERTAKEN (NOTE THESE WORKS WILL REQUIRE POSSESSIONS WHERE THEY ARE NEAR TO THE LINE) -
 - FOUNDATIONS TO UNDERGO CORE INVESTIGATIONS BY CONTRACTOR TO DETERMINE MASONRY WALL THICKNESS. THESE INVESTIGATIONS ARE TO BE UNDERTAKEN WELL AHEAD OF THE MAIN WORKS TO ALLOW FOR ANY DESIGN CHANGES RESULTING FROM THE FINDINGS.
 - UPSIDE STAIRCASE
 - LOWER MASONRY STAIRS REPOINTED, AND CONCRETE SPALLS REPAIRED.
 - PARAPETS BROKEN OUT TO ACCOMMODATE NEW FOOTPRINT OF PROPOSED BRIDGE (EXTRA STAIR RISER TO ENABLE HEIGHT INCREASE). TEMPORARY BARRIER INSTALLED ACROSS PARAPET GAP WHILST BRIDGE REOPENED TO PUBLIC.
 - DOWNSIDE STAIRCASE
 - VEGETATION REMOVED FROM SIDES OF STAIRCASE, AND REPOINTED WHERE LOOSE JOINTS ARE SHOWING.
 - EXISTING PARAPETS REMOVED FROM MASONRY STAIRCASE.
 - CONCRETE LANDING (APART FROM EXISTING STEEL STAIR SUPPORT SECTION), PARAPET AND STAIRS BROKEN OUT AND REPLACED WITH IN SITU REINFORCED CONCRETE STEPS.
 - NEW PARAPETS BOLTED TO NEW REINFORCED CONCRETE STEPS.
 - EXISTING FOUNDATION PADS
 - CONCRETE SPALLS REPAIRED.
 - MASONRY REPOINTED WHERE LOOSE JOINTS ARE SHOWING.
 - NEW HOLES FOR NEW FOUNDATION FRAME HOLDING DOWN ANCHORS DRILLED WHERE POSSIBLE.
 - FURTHER INVESTIGATIONS (OPTIONAL) TO BE UNDERTAKEN BY THE CONTRACTOR TO DE-RISK ANY POSSIBLE DELAYS WITH REMOVING THE EXISTING COLUMNS - E.G. BOND TESTING SAMPLE OF BASE PLATE TO EXISTING GROUT.
 - MAIN POSSESSION WINDOW (ANTICIPATED TO BE 29 HOURS), OLE ISOLATED AND REMOVED FROM EXISTING FOOTBRIDGE. ELECTRIC CABLES FOR EXISTING LIGHTING ISOLATED AND REMOVED.
 - EXISTING FOOTBRIDGE REMOVED BY CRANE ANTICIPATED AS FOLLOWS -
 - MAIN SPAN REMOVED BY BREAKING OUT CONNECTIONS TO TRESTLES AND LIFTING OUT.
 - STAIRS DISCONNECTED FROM EXISTING FOUNDATIONS AND TRESTLES AND REMOVED.
 - TRESTLES DISCONNECTED FROM EXISTING FOUNDATIONS AND REMOVED.
 - PREFABRICATED FOOTBRIDGE MAIN TRESTLES CRANED INTO POSITION, CONNECTED TO RESIN FIXED ANCHORS, AND LEVELLED WITH SHIMS INTO POSITION.
 - MAIN BRIDGE SPAN INCLUDING PARAPETS AND OLE SUPPORT LIFTED IN ONE PIECE INTO POSITION AND CONNECTED TO MAIN TRESTLES.
 - OLE ATTACHED TO MAIN SPAN (TO REMAIN ISOLATED UNTIL COMPLETION OF WORKS).
 - DOWNSIDE STAIRS LIFTED INTO POSITION, CONNECTED TO RESIN FIXED ANCHORS, AND LEVELLED WITH SHIMS INTO POSITION.
 - UPSIDE STAIRS LIFTED INTO POSITION, CONNECTED TO RESIN FIXED ANCHORS, AND LEVELLED WITH SHIMS INTO POSITION.
 - ADDITIONAL BRACING MEMBERS BETWEEN TRESTLE STAIR SUPPORTS BOLTED INTO POSITION.
 - BASE PLATES GROUTED INTO POSITION BENEATH ALL COLUMNS.
 - OLE SWITCHED ON AFTER COMPLETION OF POSSESSION.
 - LIGHTING IN BRIDGE INSTALLED AND COMMISSIONED.
 - SITE DEMOBILISATION AND HANDOVER.

Safety, Health and Environment information		
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant risks		
Construction		
C01		Electrocution risk due to OLE when working prior to main isolated possession window
C02		Electrocution risk when removing/altering existing lighting cabling from footbridge
C03		Falling from height installing new footbridge
C04		Injury or death from being struck by a train
C05		Risk of failure and damage to temporary works if not adequately designed.
C06		Risk associated with voiding of concrete and damaging existing foundations
CO7		Craneage operations during replacement
C08		Instability of bridge if existing structural elements removed at the same time.
C10		Lead posioning if paint exposure not adequately controlled during removal of existing bridge
C09		Manual handling risks during replacement operation
O1		Public use and operation
O2		Maintenance works
D1		Demolition risks as construction risks

CONNECTION DESIGN LOADS TABLE

CONNECTION DESCRIPTION	Fx + ve (kN)	Fx - ve (kN)	Fy (kN)	Fz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
SHS BRACING MEMBERS	50	50	+/-5	+/-10	0	0	0
Mx: TORSION; MOMENT ABOUT MAJOR AXIS; Mz: MOMENT ABOUT MINOR AXIS							
Fx: AXIAL FORCE (POSITIVE FOR COMPRESSION, NEGATIVE FOR TENSION); Fy: SHEAR ABOUT MINOR AXIS; Fz: SHEAR ABOUT MAJOR AXIS							

GENERAL NOTES

- ALL DIMENSIONS AND LEVELS ARE EXISTING. ALL TO BE VERIFIED BY MAIN CONTRACTOR PRIOR TO COMMENCEMENT OF FABRICATION OF ALL NEW STEELWORK. IN PARTICULAR THE CONTRACTOR SHOULD ENSURE THAT THE COLUMNS ARE POSITIONED CONCENTRICALLY ONTO THE EXISTING FOUNDATIONS AND THAT THE MAIN SPAN SOFFIT LEVEL IS ACHIEVED.
- ALL STEELWORK TO BE PAINTED AS PER THE REQUIREMENTS OF THE TECHNICAL WORKSCOPE.
- FOR FURTHER DETAILS ON SERVICES SEE ORIGINAL SERVICE DRAWINGS - REQUEST REFERENCE - LSBUD Ref: 20744192.
- FOR SEPARATE TOPOGRAPHY DRAWINGS SEE SURVEY DRAWINGS - REFERENCE: GCS-JBA-ARDWICK-1.
- THE BRIDGE SUPERSTRUCTURE IS GENERALLY TO BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD DRAWINGS NR-CIV-SD-16m-1XX WITH SOME ALTERATIONS TO SOME OF THE STANDARD DETAILS. ALTERATIONS TO DIMENSIONAL LAYOUT OF STANDARD DESIGN DRAWINGS ARE ANNOTATED AS DEPARTURES ON THE DRAWING FOR CLARITY. ADDITIONAL MEMBERS OR ALTERATIONS OTHER THAN GEOMETRIC DIMENSIONS ARE COLOURED. REFER TO GENERAL NOTES: KEY.**

STEELWORK

- ANY ADDITIONAL STEELWORK MEMBERS TO THOSE SPECIFIED WITHIN THE STANDARD NR DRAWINGS TO BE A455-J0 IN ACCORDANCE WITH BS EN 10025-2:2004 AND WITH MODEL CLAUSE 1800 - SPECIFICATION FOR STRUCTURAL STEELWORK.
- ANY ADDITIONAL BOLTS TO THOSE SPECIFED WITHIN THE STANDARD NR DRAWINGS TO BE GRADE 8.8 NON-PRELOADED BOLT UNLESS STATED OTHERWISE.
- THE ENTIRE METALLIC STRUCTURE IS TO UNDERGO PROTECTIVE TREATMENT. CORROSION PROTECTION TO BE APPLIED IN ACCORDANCE WITH THE TECHNICAL WORKSCOPE
- 'EPT-JBAU-00-02-SP-0001-A4-P02-ARDWICK_STATION_TECHNICAL_WORKSCOPE'.
- RAIL CLEARANCE FOR TEMPORARY WORKS TO BE IN ACCORDANCE WITH THE TECHNICAL WORKSCOPE.
- IT IS KNOWN THAT THERE IS 15 % Pb CONTENT WITHIN EXISTING PAINT OF EXISTING STRUCTURE. A SUITABLE RISK ASSESSMENT MUST BE UNDERTAKEN BY THE CONTRACTOR TO LIMIT LEAD EXPOSURE TO OPERATIVES DURING THE DEMOLITION PROCESS.

MASONRY REPAIRS

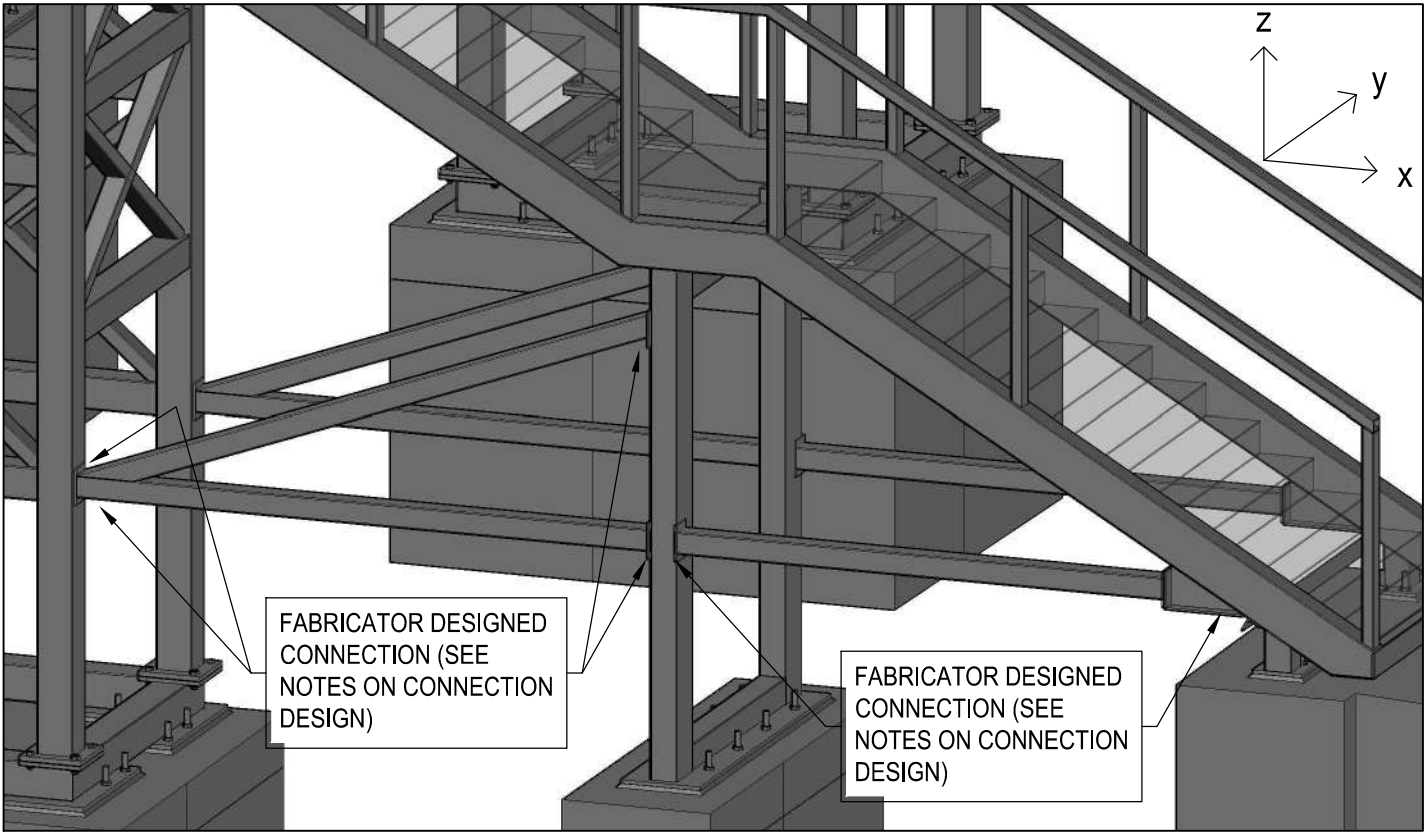
- MASONRY REPAIRS TO BE UNDERTAKEN IN ACCORDANCE WITH THE TECHNICAL WORKSCOPE
- 'EPT-JBAU-00-02-SP-0001-A4-P02-ARDWICK_STATION_TECHNICAL_WORKSCOPE'.
- EXACT EXTENT OF REPOINTING WORKS TO EXISTING MASONRY SUPPORTS AND STAIRS BE AGREED WITH THE EMPLOYER'S REPRESENTATIVE BUT ARE NOT ANTICIPATED TO EXCEED SURFACE AREA AS SHOWN ON DRG. 1008.

CONCRETE REPAIRS

- CONCRETE REPAIRS TO BE UNDERTAKEN IN ACCORDANCE WITH THE TECHNICAL WORKSCOPE
- 'EPT-JBAU-00-02-SP-0001-A4-P02-ARDWICK_STATION_TECHNICAL_WORKSCOPE'. EXACT LOCATION AND EXTENT OF WORKS TO BE AGREED WITH EMPLOYERS REPRESENTATIVE BUT ARE NOT ANTICIPATED TO EXCEED SURFACE AREA AS SHOWN ON DRG. 1008 IN TOTAL PATCH REPAIR VOLUME.

INVESTIGATIONS PRIOR TO WORKS

- THE THICKNESS OF THE MASONRY WALLS AND INTERNAL COMPOSITION OF THE EXISTING SUPPORTS TO THE MAIN SPAN ARE TO BE INVESTIGATED BY UNDERTAKING A CORING SURVEY IN THE LOCATIONS AS SHOWN IN DRAWING 1004 AND 1005. IF THICKNESS OF MASONRY/CONCRETE FOUND TO BE LESS THAN 750MM (ASSUMPTION BASED ON EXISTING BASE PLATE SIZE) THEN THE CONTRACTOR IS TO REVERT TO THE EMPLOYER'S REPRESENTATIVE FOR IMPACT TO DESIGN. THESE INVESTIGATIONS MUST BE UNDERTAKEN WELL IN ADVANCE OF THE MAIN WORKS AT A TIME AGREED WITH THE EMPLOYER'S REPRESENTATIVE IN ORDER TO ALLOW SUFFICIENT TIME FOR ALTERATIONS TO BE MADE TO THE DESIGN IF NECESSARY.
- THE CONTRACTOR SHOULD NOTE THE RISK OF DIFFICULTY OF REMOVING THE EXISTING COLUMN BASE PLATES WITHIN THE POSSESSION TIMEFRAME. INTRUSIVE INVESTIGATIONS SUCH AS CORES THROUGH THE BASE PLATE TO DETERMINE BOND CHARACTERISTIC TO THE GROUT BELOW CAN BE UNDERTAKEN WITH AGREEMENT WITH THE EMPLOYERS REPRESENTATIVE.



- CONNECTION DESIGN
- THE CONNECTION DESIGN OF MEMBERS INDICATED AS FABRICATOR DESIGNED ON THE DRAWINGS ARE TO BE UNDERTAKEN BY THE STEELWORK FABRICATOR. MEMBER END FORCES PROVIDED IN THE 'CONNECTION DESIGN LOADS TABLE' ARE SHOWN AT ULS SET B (EN1990).
 - ALL CONNECTIONS TO HAVE MIN 2 NO. M16 BOLTS UNLESS AGREED OTHERWISE WITH THE EMPLOYERS REPRESENTATIVE.
 - ALL BOLTS TO BE GRADE 8.8 IN ACCORDANCE WITH BS 4190:2014 UNLESS AGREED OTHERWISE WITH THE EMPLOYERS REPRESENTATIVE.





Our Lifesaving Rules

everyone home safe every day



A	B	C	D	E	F	G	H	J	K
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GENERAL NOTES

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- SEE DRG. No. 1000 FOR ADDITIONAL GENERAL NOTES.



ARDWICK STATION

LOCATION PLAN
(Scale: N.T.S.)

UTILITY SERVICES INVESTIGATION GAUGE TO PAS 128



TYPE D: DESK STUDY



TYPE C: DESK STUDY AND SITE RECONNAISSANCE



TYPE B: DESK STUDY WITH SITE RECON AND UTILITY DETECTION SURVEY



TYPE A: DESK STUDY WITH SITE RECON, UTILITY DETECTION SURVEY & TRIAL HOLES

TYPE D	TYPE C	TYPE B	TYPE A
08/04/21			

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KEY

—

EXISTING OR UNCHANGED

—

MODIFIED DETAIL FROM STANDARD DESIGN DETAILS. OR NEW STEELWORK NOT FROM STANDARD DESIGN DETAILS

—

REDUNDANT OR TO BE REMOVED

—

NEW, PROPOSED OR ADDITIONAL

—

EXISTING CABLING

— BT

BRITISH TELECOM - EXISTING

— E

ELECTRICITY - EXISTING

— G

GAS - EXISTING

— OH OH

OVERHEAD CABLE - EXISTING

CO1	03/06/21	APPROVED FOR CONSTRUCTION	IJP	NF	AT
PO2	14/05/21	F003 SUBMISSION	IJP	NF	AT
PO1	30/04/21	F003 PRELIMINARY REVIEW	IJP	NF	AT
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status	A4				



Network Rail
LNW
Works Delivery
Buildings



Network Rail LNW
Edgeley 9B
Stockport Road
Stockport
SK3 9QS

Consultant



JBA Consulting
35 Perrymount Road
HAYWARDS HEATH
West Sussex
RH16 3BW
Tel: 01444 473 652

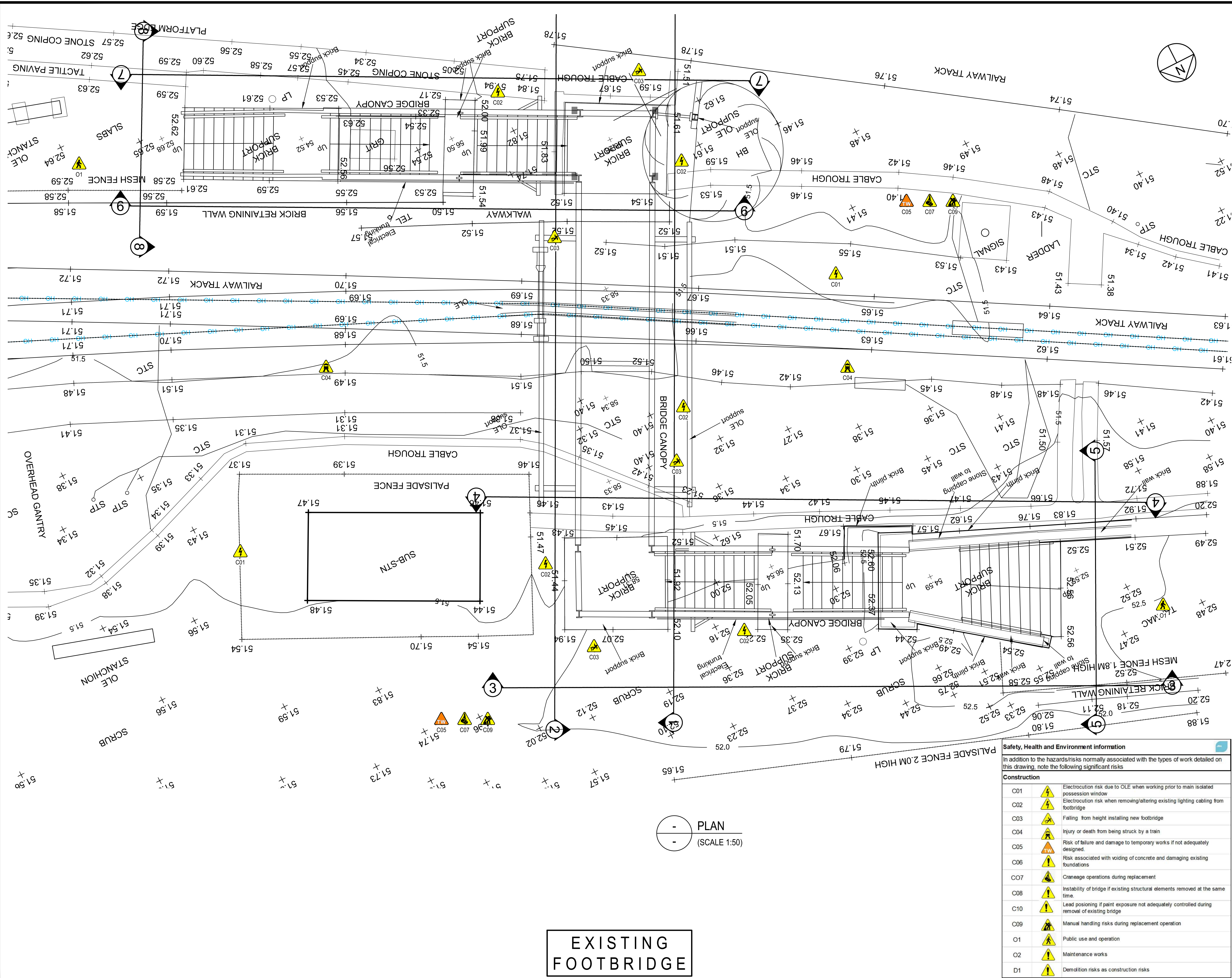
Project

NORTH WEST & CENTRAL (NW & C)
ARDWICK & HARRINGTON FOOTBRIDGES

Drawing Title

ARDWICK STATION
FOOTBRIDGE HAJ/3
REPLACEMENT WORKS
GENERAL NOTES

Designed	N. Fenwick	Signed	N.F.	Date	25/01/21
Drawn	R. Groves	Signed	R.G.	Date	25/01/21
Checked	D. Wardill	Signed	D.W.	Date	22/02/21
Approved	A. Tyndel	Signed	A.T.	Date	22/02/21
Scale(s)	As Shown @ A1				
Alternative Reference			Sheet		
2020s1501			1		
Drawing Number			Revision		
EPT-JBAU-00-02-DR-C-1000			C01		



PLAN
(SCALE 1:50)

EXISTING
FOOTBRIDGE

Our Lifesaving Rules

A

B

C

D

E

F

G

H

J

K

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LOCATION PLAN
(Scale: N.T.S.)

UTILITY SERVICES INVESTIGATION GAUGE TO PAS 128

TYPE D: DESK STUDY

TYPE C: DESK STUDY AND SITE RECONNAISSANCE

TYPE B: DESK STUDY WITH SITE RECON AND UTILITY DETECTION SURVEY

TYPE A: DESK STUDY WITH SITE RECON, UTILITY DETECTION SURVEY & TRIAL HOLES

TYPE D

TYPE C

TYPE B

TYPE A

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EXISTING CABLES

—

BT

—

BRITISH TELECOM

—

E

—

ELECTRICITY

—

G

—

GAS

—

OH

—

OVERHEAD CABLE

—

EXISTING

—

EXISTING

—

EXISTING

—

EXISTING

—

EXISTING

C01

03/06/21

APPROVED FOR CONSTRUCTION

IJP

NF

AT

P04

14/05/21

F003 SUBMISSION

IJP

NF

AT

P03

30/04/21

F003 PRELIMINARY REVIEW

IJP

NF

AT

Rev

Date

Description of Revisions

Drawn

Chkd

Appr

Status

A4

Network Rail LNW
Edgeley 9B
Stockport Road
Stockport
SK3 9QS

Consultant

JBA Consulting
35 Perrymount Road
HAYWARDS HEATH
West Sussex
RH16 3BW
Tel: 01444 473 652

Project

NORTH WEST & CENTRAL (NW & C)
ARDWICK & HARRINGTON FOOTBRIDGES

Drawing Title

ARDWICK STATION
FOOTBRIDGE HAJ/3
REPLACEMENT WORKS
EXISTING - PLAN

Designed

N. Fenwick

Signed

N.F.

Date

25/01/21

Drawn

R. Groves

Signed

R.G.

Date

25/01/21

Checked

D. Wardill

Signed

D.W.

Date

22/02/21

Approved

A. Tyndel

Signed

A.T.

Date

22/02/21

Scale(s)

As Shown @ A1

ELR & Mileage
HAJ - 0m 1331 yards

Sheet

2

Alternative Reference

2020s1501

Revision

C01

Drawing Number

EPT-JBAU-00-02-DR-C-1001

Safety, Health and Environment information

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant risks

Construction

C01

Electrocution risk due to OLE when working prior to main isolated possession window

C02

Electrocution risk when removing/altering existing lighting cabling from footbridge

C03

Falling from height installing new footbridge

C04

Injury or death from being struck by a train

C05

Risk of failure and damage to temporary works if not adequately designed

C06

Risk associated with voiding of concrete and damaging existing foundations

C07

Craneage operations during replacement

C08

Instability of bridge if existing structural elements removed at the same time

C10

Lead positioning if paint exposure not adequately controlled during removal of existing bridge

C09

Manual handling risks during replacement operation

O1

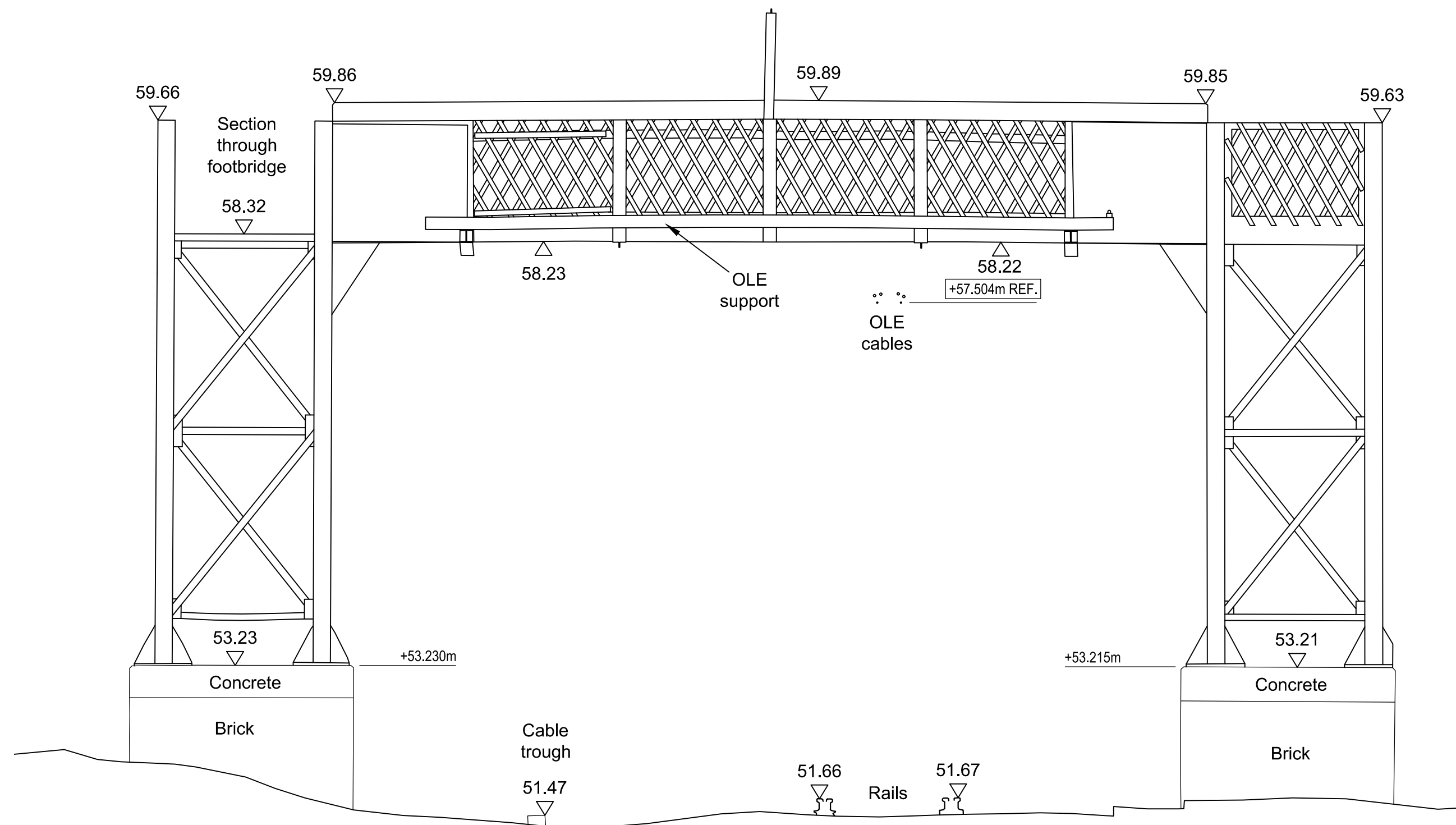
Public use and operation

O2

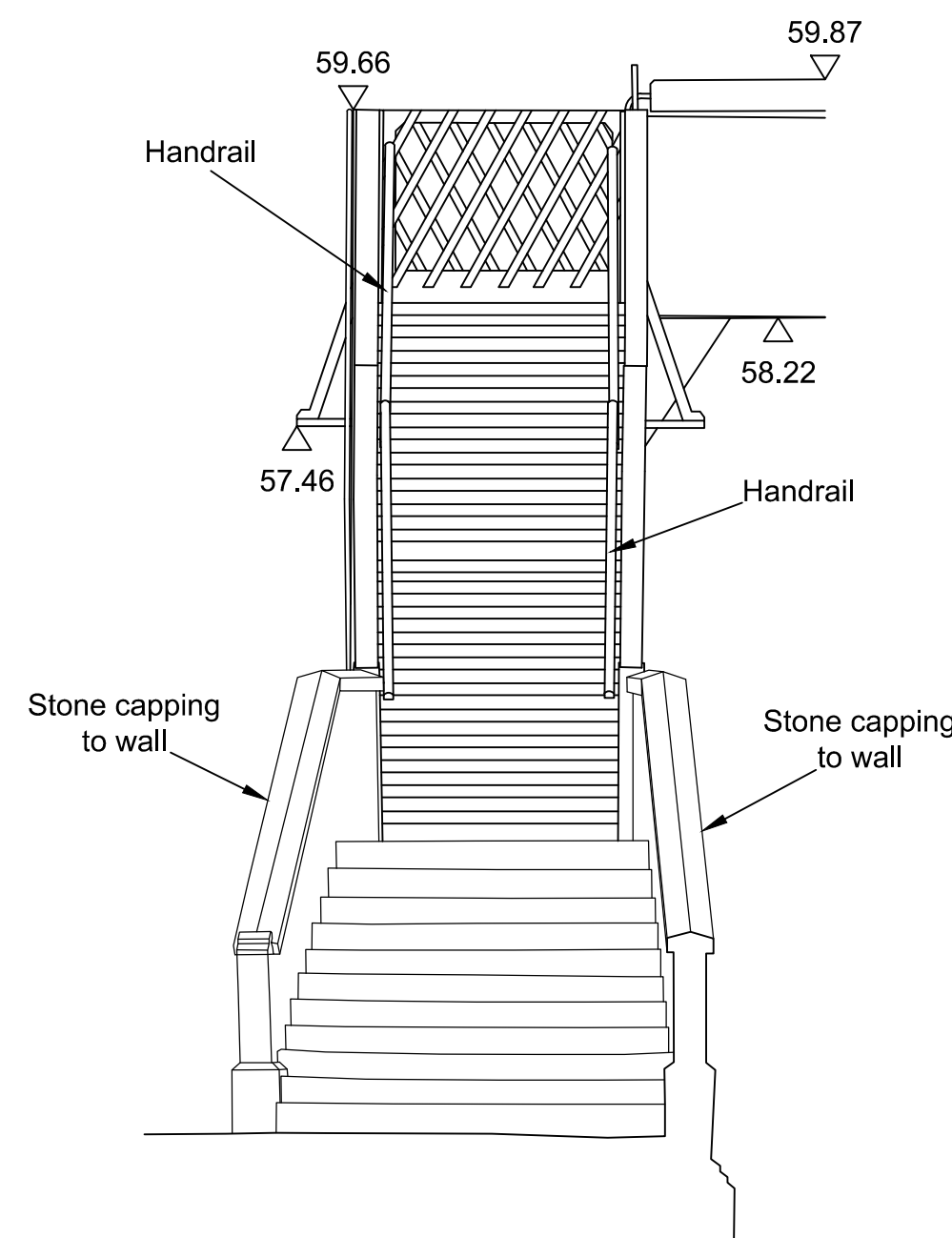
Maintenance works

D1

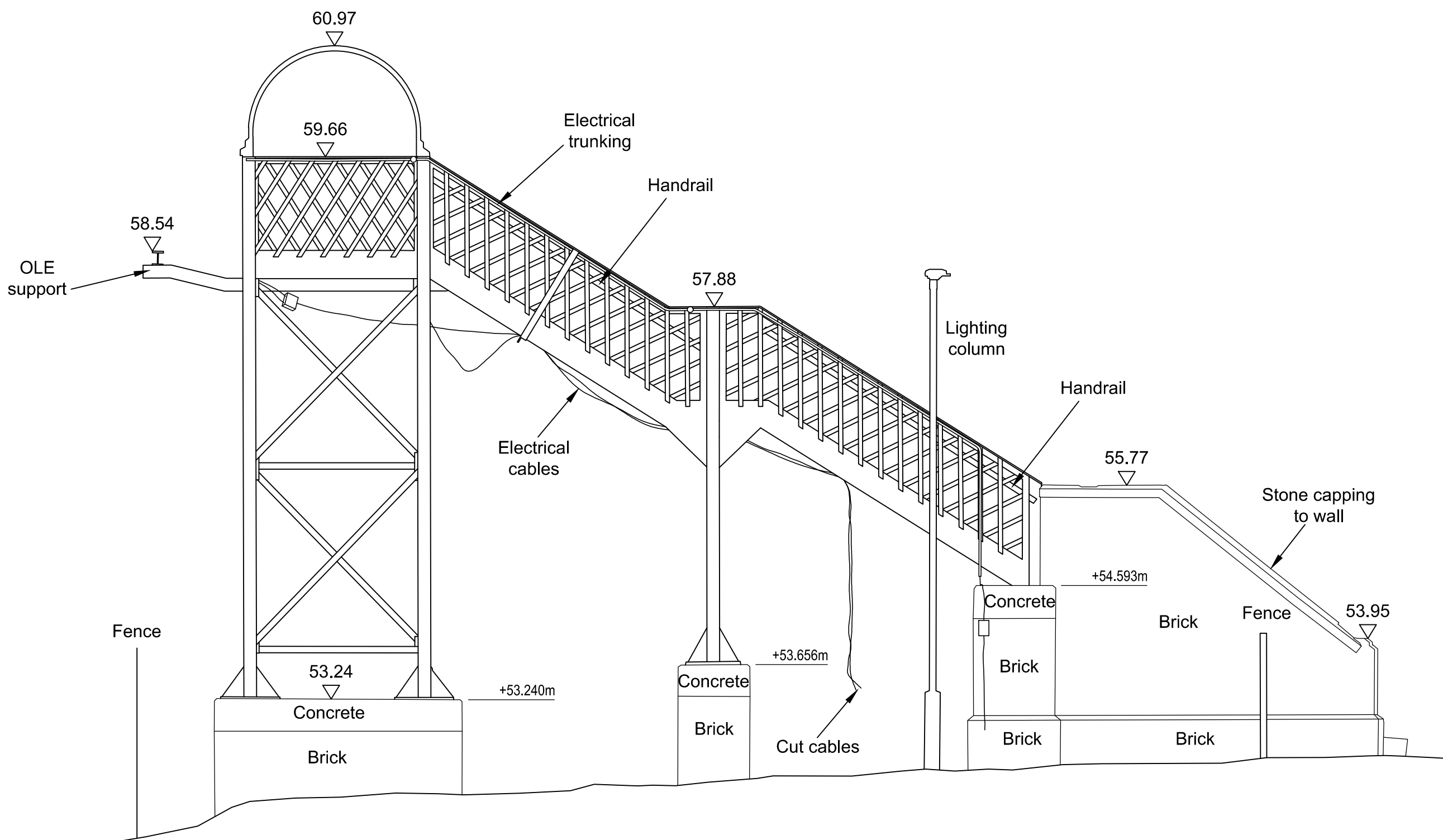
Demolition risks as construction risks



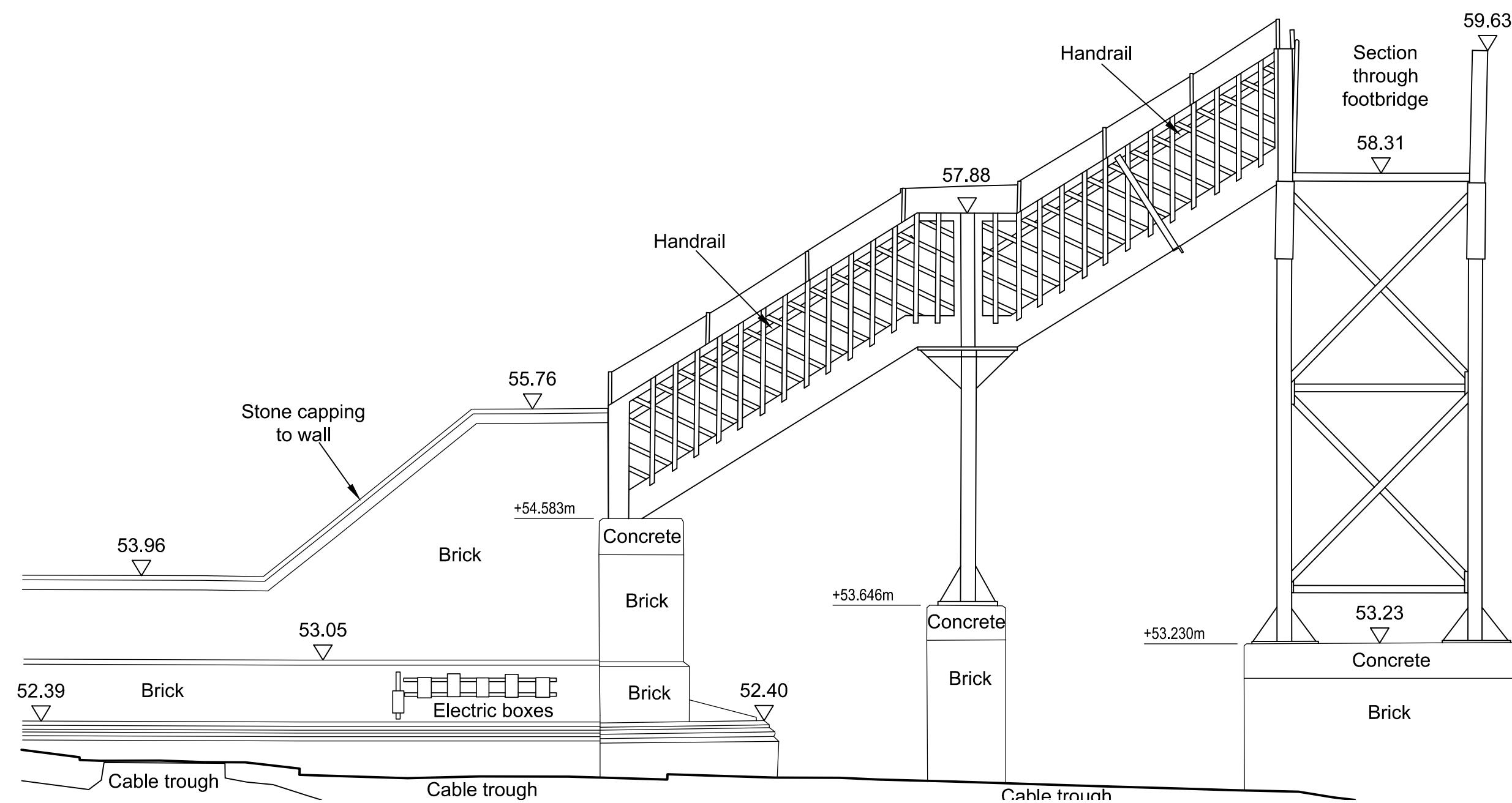
1
1001
ELEVATION
LOW MILEAGE
(SCALE 1:50)



5
1001
ELEVATION
UPSIDE
(SCALE 1:50)

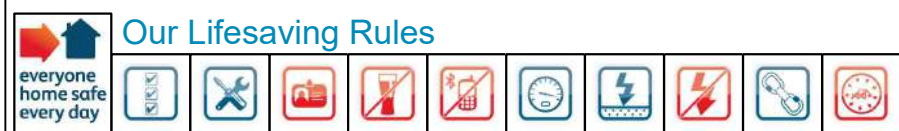


3
1001
ELEVATION
UPSIDE
(SCALE 1:50)

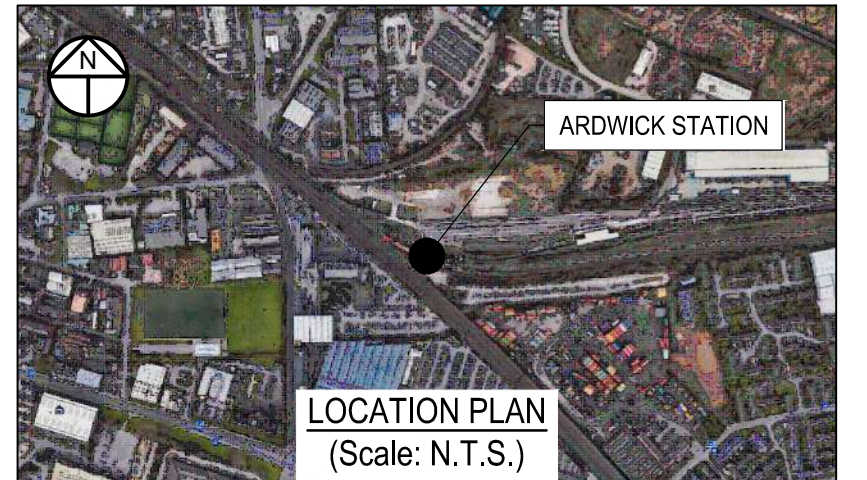


4
1001
ELEVATION
UPSIDE
(SCALE 1:50)

EXISTING
FOOTBRIDGE



- GENERAL NOTES
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 6. SEE DRG. No. 1000 FOR ADDITIONAL GENERAL NOTES.



- UTILITY SERVICES INVESTIGATION GAUGE TO PAS 128
- TYPE D: DESK STUDY
 - TYPE C: DESK STUDY AND SITE RECONNAISSANCE
 - TYPE B: DESK STUDY WITH SITE RECON AND UTILITY DETECTION SURVEY
 - TYPE A: DESK STUDY WITH SITE RECON, UTILITY DETECTION SURVEY & TRIAL HOLES

TYPE D	TYPE C	TYPE B	TYPE A
08/04/21			

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—	NEW, PROPOSED OR ADDITIONAL	
—	EXISTING CABLING	
— BT —	BRITISH TELECOM	EXISTING
— E —	ELECTRICITY	EXISTING
— G —	GAS	EXISTING
— OH —	OVERHEAD CABLE	EXISTING

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
C01	03/06/21	APPROVED FOR CONSTRUCTION	IJP	NF	AT
P04	14/05/21	F003 SUBMISSION	IJP	NF	AT
P03	30/04/21	F003 PRELIMINARY REVIEW	IJP	NF	AT

Status

A4



Network Rail LNW
Edgeley 9B
Stockport Road
Stockport
SK3 9QS

Consultant

JBA Consulting

JBA Consulting
35 Perryman Road
HAYWARDS HEATH
West Sussex
RH16 3BW
Tel: 01444 473 652

Project

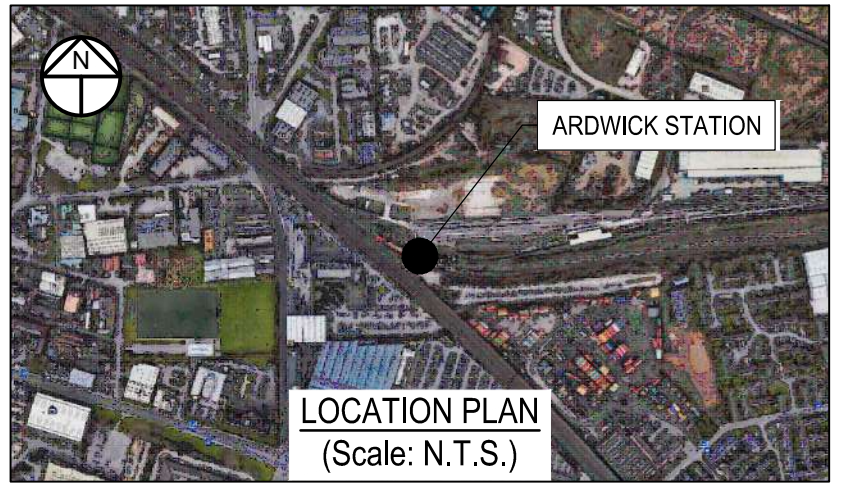
NORTH WEST & CENTRAL (NW & C)
ARDWICK & HARRINGTON FOOTBRIDGES

Drawing Title

ARDWICK STATION
FOOTBRIDGE HAJ/3
REPLACEMENT WORKS
EXISTING ELEVATIONS SHT 1 OF 2

Designed	N. Fenwick	Signed	N.F.	Date	25/01/21
Drawn	R. Groves	Signed	R.G.	Date	25/01/21
Checked	D. Wardill	Signed	D.W.	Date	22/02/21
Approved	A. Tyndel	Signed	A.T.	Date	22/02/21
Scale(s)	As Shown @ A1	ELR & Mileage	HAI - 0m 1331 yards		
Alternative Reference	2020s1501	Sheet	3		
Drawing Number	EPT-JBAU-00-02-DR-C-1002	Revision	C01		

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UTILITY SERVICES INVESTIGATION GAUGE TO PAS 128

- TYPE D: DESK STUDY
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- TYPE B: DESK STUDY WITH SITE RECON AND UTILITY DETECTION SURVEY
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TYPE D	TYPE C	TYPE B	TYPE A
08/04/21			

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—	NEW, PROPOSED OR ADDITIONAL
—	EXISTING CABLEING
— BT —	BRITISH TELECOM - EXISTING
— E —	ELECTRICITY - EXISTING
— G —	GAS - EXISTING
— OH —	OVERHEAD CABLE - EXISTING

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
C01	03/06/21	APPROVED FOR CONSTRUCTION	IJP	NF	AT
P02	14/05/21	F003 SUBMISSION	IJP	NF	AT
P01	30/04/21	F003 PRELIMINARY REVIEW	IJP	NF	AT

Status

A4



Network Rail LNW
Edgeley 9B
Stockport Road
Stockport
SK3 9QS

Consultant



JBA Consulting
35 Perrymount Road
HAYWARDS HEATH
West Sussex
RH16 3BW
Tel: 01444 473 652

Project

NORTH WEST & CENTRAL (NW & C)
ARDWICK & HARRINGTON FOOTBRIDGES

Drawing Title

ARDWICK STATION
FOOTBRIDGE HAJ/3
REPLACEMENT WORKS
EXISTING ELEVATIONS SHT 2 OF 2

Designed	N. Fenwick	Signed	N.F.	Date	25/01/21
Drawn	R. Groves	Signed	R.G.	Date	25/01/21
Checked	D. Wardill	Signed	D.W.	Date	22/02/21
Approved	A. Tyndel	Signed	A.T.	Date	22/02/21

Scale(s)
As Shown @ A1

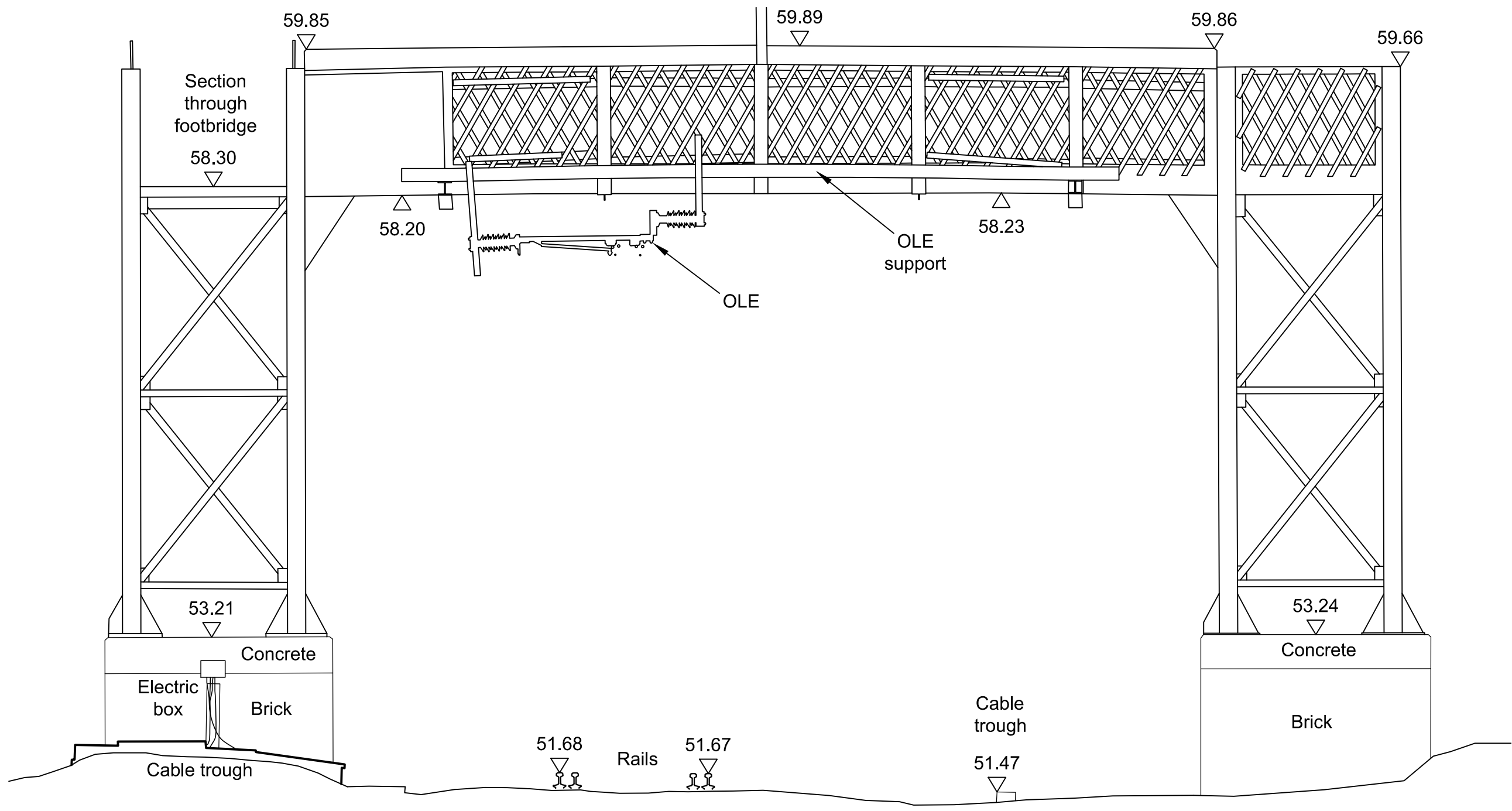
ELR & Mileage
HAJ - 0m 1331 yards

Alternative Reference
2020s1501

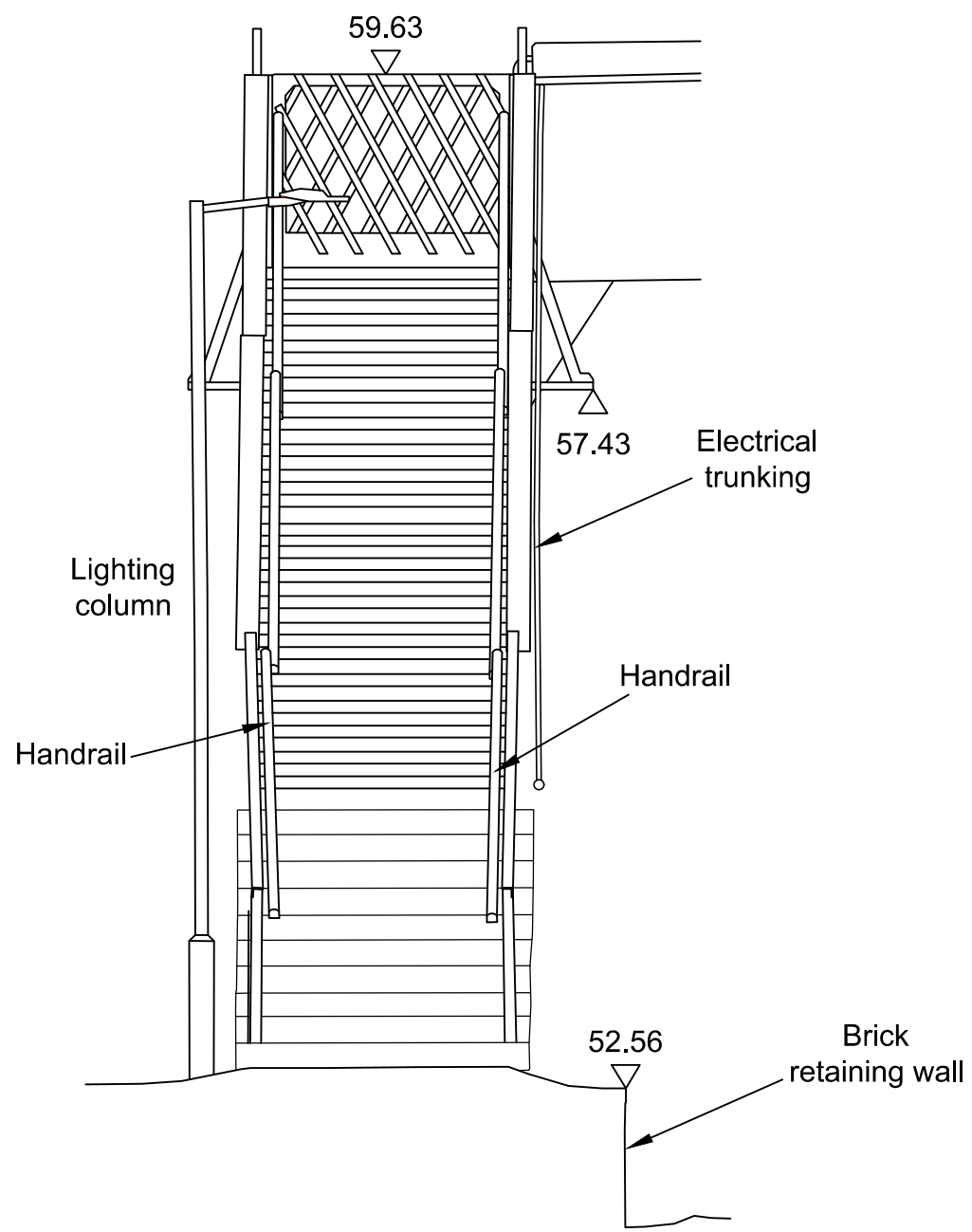
Sheet
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Drawing Number
EPT-JBAU-00-02-DR-C-1003

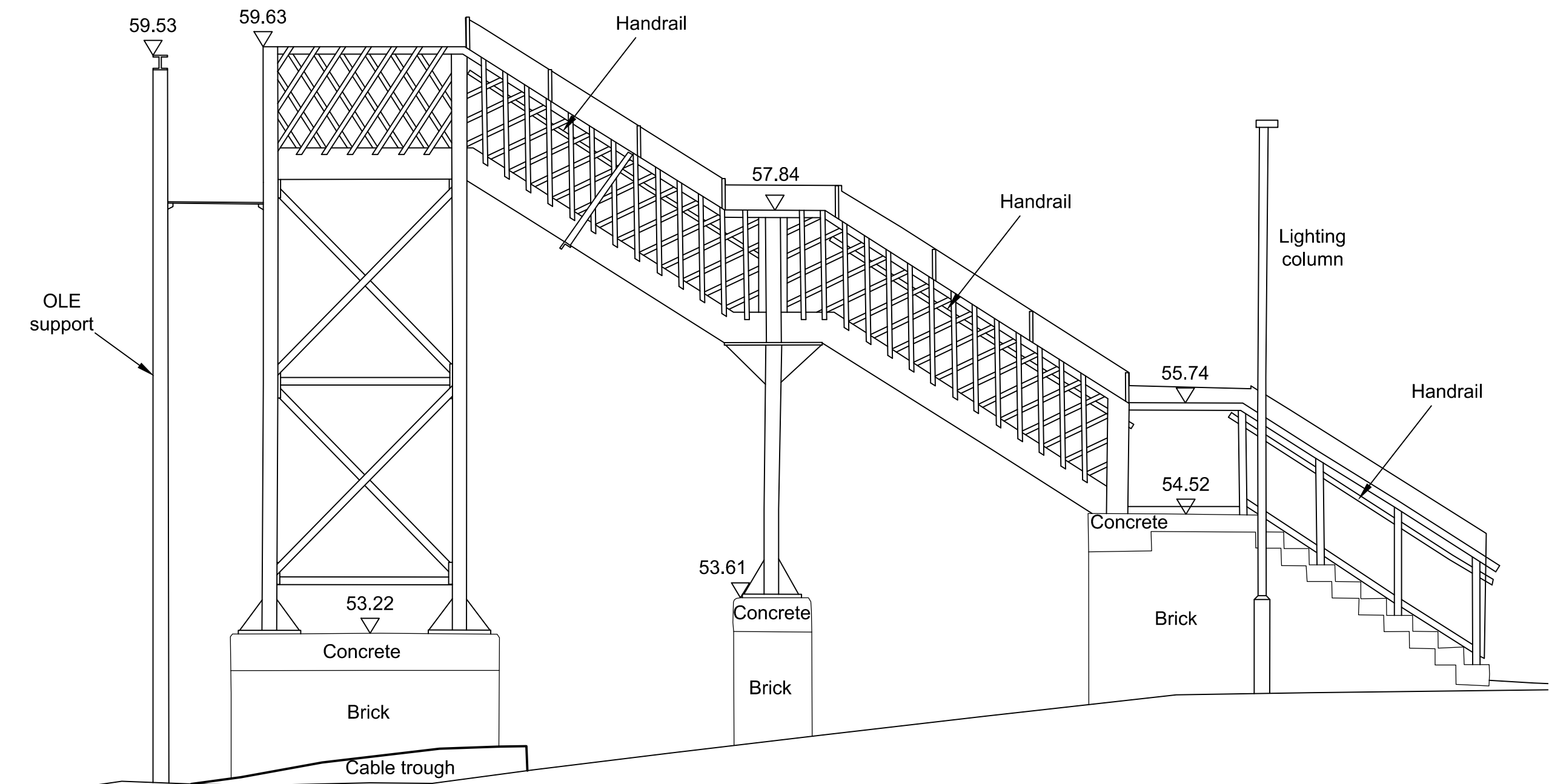
Revision
C01



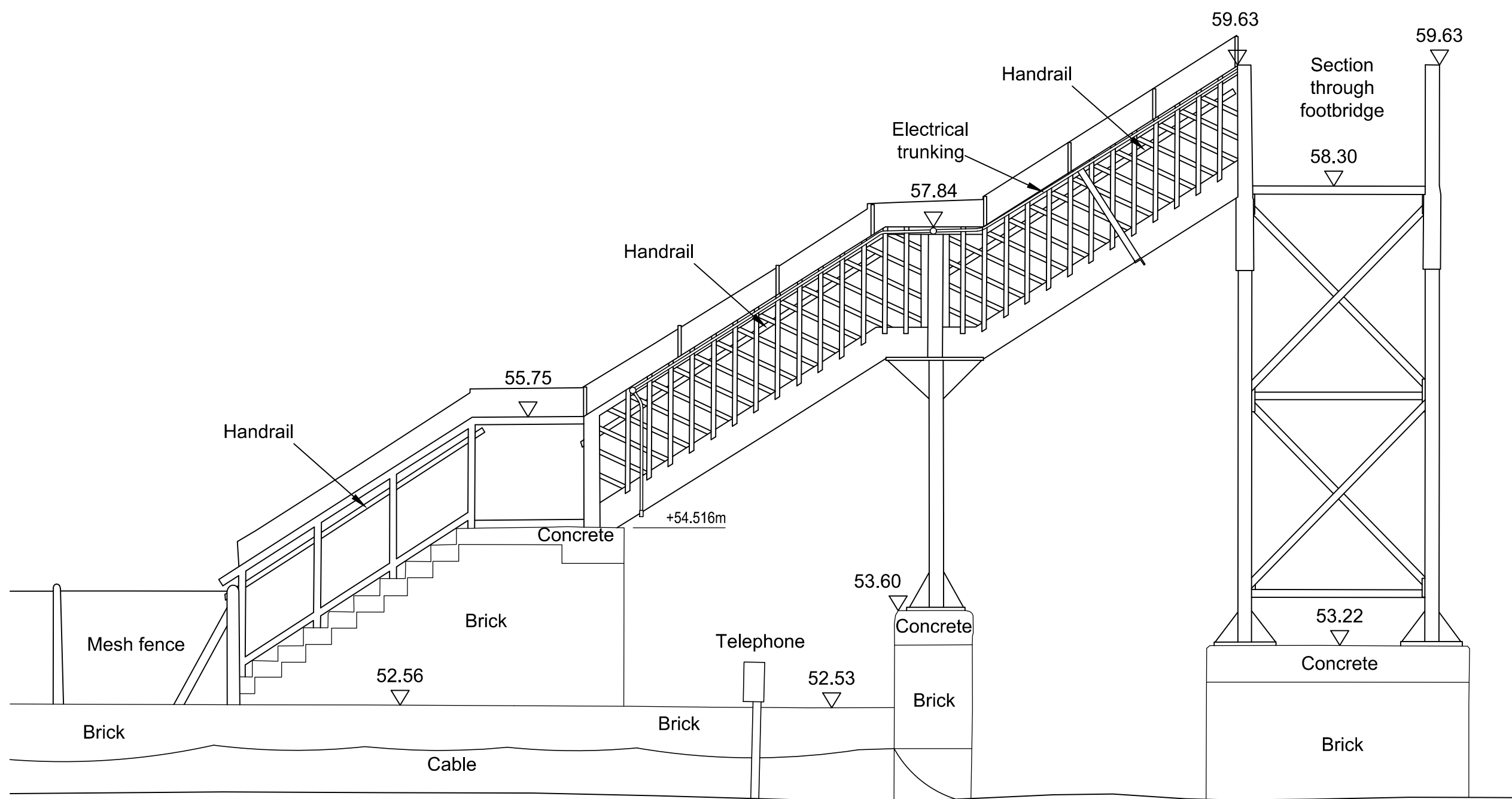
2
1001
ELEVATION
LOW MILEAGE
(SCALE 1:50)



8
1001
ELEVATION
UPSIDE
(SCALE 1:50)



7
1001
ELEVATION
DOWNSIDE
(SCALE 1:50)



6
1001
ELEVATION
DOWNSIDE
(SCALE 1:50)

EXISTING
FOOTBRIDGE



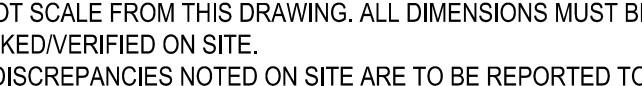
PROPOSED FOOTBRIDGE

Safety, Health and Environment information		
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant risks		
Construction		
C01		Electrocution risk due to OLE when working prior to main isolated possession window
C02		Electrocution risk when removing/altering existing lighting cabling from footbridge
C03		Falling from height installing new footbridge
C04		Injury or death from being struck by a train
C05		Risk of failure and damage to temporary works if not adequately designed.
C06		Risk associated with voiding of concrete and damaging existing foundations
C07		Craneage operations during replacement
C08		Instability of bridge if existing structural elements removed at the same time.
C10		Lead poisoning if paint exposure not adequately controlled during removal of existing bridge
C09		Manual handling risks during replacement operation
O1		Public use and operation
O2		Maintenance works
D1		Demolition risks as construction risks



**everyone
home safe
every day**

Our Lifesaving Rules



A	B	C	D	E	F	G	H	J	K
---	---	---	---	---	---	---	---	---	---

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LOCATION PLAN
(Scale: N.T.S.)

UTILITY SERVICES INVESTIGATION GAUGE TO PAS 128

	TYPE D: DESK STUDY
	TYPE C: DESK STUDY AND SITE RECONNAISSANCE
	TYPE B: DESK STUDY WITH SITE RECON AND UTILITY DETECTION SURVEY
	TYPE A: DESK STUDY WITH SITE RECON, UTILITY DETECTION SURVEY & TRIAL HOLES

TYPE D	TYPE C	TYPE B	TYPE A
08/04/21			

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	EXISTING CABLING
	BT - BRITISH TELECOM - EXISTING
	E - ELECTRICITY - EXISTING
	G - GAS - EXISTING
	OH - OVERHEAD CABLE - EXISTING

C01	03/06/21	APPROVED FOR CONSTRUCTION	IJP	NF	AT
P02	14/05/21	F003 SUBMISSION	IJP	NF	AT
P01	30/04/21	F003 PRELIMINARY REVIEW	IJP	NF	AT
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Status: **A4**



Network Rail
LNw
Works Delivery
Buildings



**everyone
home safe
every day**

Network Rail LNw
Edgeley JB
Stockport Road
Stockport
SK3 9QS

Consultant



JBA
Consulting

JBA Consulting
35 Perrymount Road
HAYWARDS HEATH
West Sussex
RH16 3BW
Tel: 01444 473 652

Project

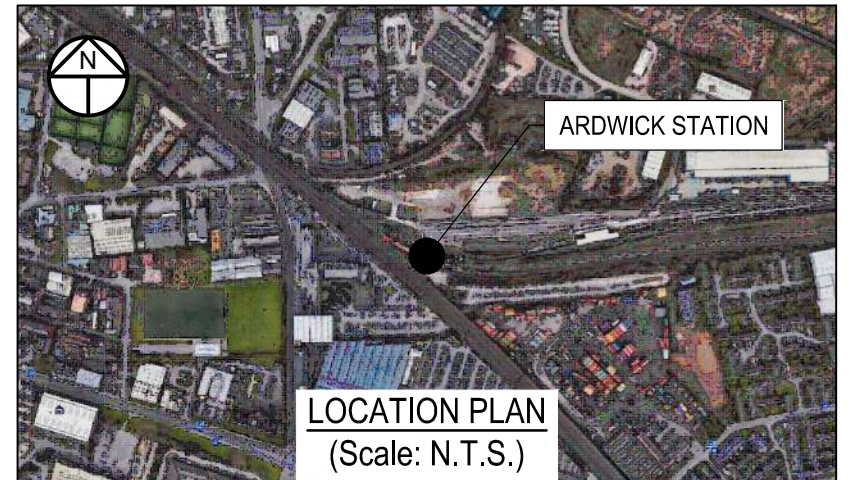
NORTH WEST & CENTRAL (NW & C)
ARDWICK & HARRINGTON FOOTBRIDGES

Drawing Title

ARDWICK STATION
FOOTBRIDGE HA/J/3
REPLACEMENT WORKS
PROPOSED - PLAN

Designed	N. Fenwick	Signed	N.F.	Date	25/01/21
Drawn	R. Groves	Signed	R.G.	Date	25/01/21
Checked	D. Wardill	Signed	D.W.	Date	22/02/21
Approved	A. Tyndel	Signed	A.T.	Date	22/02/21
Scale(s)	As Shown @ A1				
Alternative Reference	ELR & Mileage HAJ - 0m 1331 yards				
Drawing Number	2020s1501			Sheet	5
EPT-JBAU-00-02-DR-C-1004				Revision	C01

- GENERAL NOTES
1. ALL DIMENSIONS SHOWN ARE IN METRES UNLESS OTHERWISE STATED AND LEVELS IN METRES TO ORDNANCE DATUM.
 2. ORDNANCE SURVEY MAP DATA REPRODUCED BY PERMISSION OF ORDNANCE SURVEY ON BEHALF OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT. ALL RIGHTS RESERVED. ORDNANCE SURVEY LICENCE NUMBER 100019980.
 3. DO NOT SCALE FROM THIS DRAWING. ALL DIMENSIONS MUST BE CHECKED/VERIFIED ON SITE.
 4. ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE EMPLOYERS REPRESENTATIVE IMMEDIATELY.
 5. ALL LEVELS AND TOPOGRAPHICAL INFORMATION TAKEN FROM 'GCS' REF: GCS-JBA-ARDWICK-1.
 6. SEE DRG. No. 1000 FOR ADDITIONAL GENERAL NOTES.



UTILITY SERVICES INVESTIGATION GAUGE TO PAS 128

- TYPE D: DESK STUDY
- TYPE C: DESK STUDY AND SITE RECONNAISSANCE
- TYPE B: DESK STUDY WITH SITE RECON AND UTILITY DETECTION SURVEY
- TYPE A: DESK STUDY WITH SITE RECON, UTILITY DETECTION SURVEY & TRIAL HOLES

TYPE D	TYPE C	TYPE B	TYPE A
08/04/21			

THE POSITION OF ANY EXISTING PUBLIC OR PRIVATE SEWERS, UTILITY SERVICES, PLANT OR APPARATUS SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM STATUTORY RECORDS. THE INFORMATION SHOWN IS BELIEVED TO BE CORRECT BUT NO WARRANTY TO THIS IS EXPRESSED OR IMPLIED. OTHER SUCH PLANT OR APPARATUS MAY ALSO BE PRESENT BUT NOT SHOWN. INVESTIGATIONS SHOULD BE UNDERTAKEN ON SITE CONFIRMING LOCATIONS BEFORE BREAKING GROUND.

KEY		
EXISTING OR UNCHANGED		
MODIFIED DETAIL FROM STANDARD DESIGN DETAILS, OR NEW STEELWORK NOT FROM STANDARD DESIGN DETAILS		
REDUNDANT OR TO BE REMOVED		
NEW, PROPOSED OR ADDITIONAL		
EXISTING CABLEING		
BT	BRITISH TELECOM	EXISTING
E	ELECTRICITY	EXISTING
G	GAS	EXISTING
OH	OVERHEAD CABLE	EXISTING

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
C01	03/06/21	APPROVED FOR CONSTRUCTION	IJP	NF	AT
P02	14/05/21	F003 SUBMISSION	IJP	NF	AT
P01	30/04/21	F003 PRELIMINARY REVIEW	IJP	NF	AT

Status: A4



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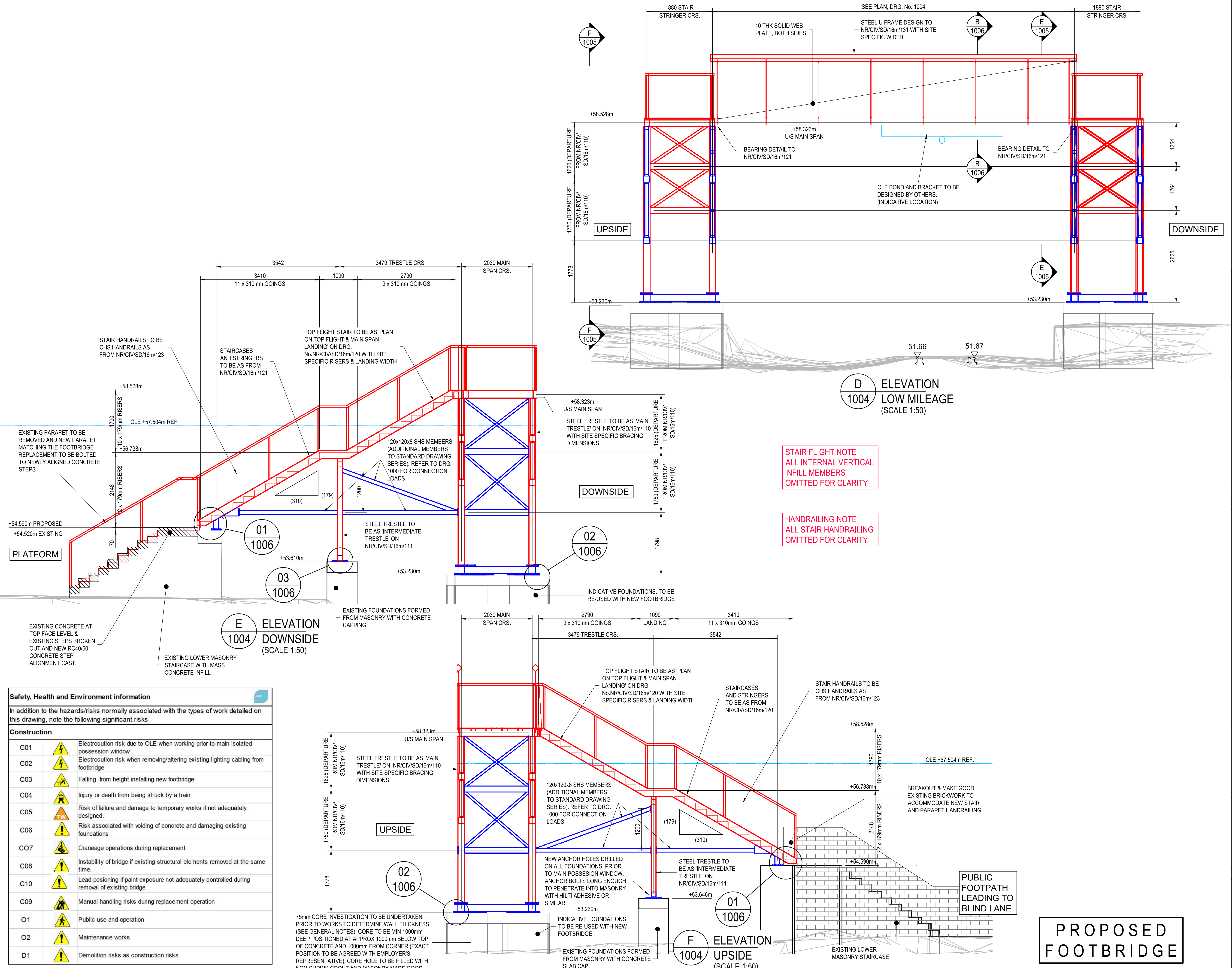
Project

NORTH WEST & CENTRAL (NW & C)
ARDWICK & HARRINGTON FOOTBRIDGES

Drawing Title

ARDWICK STATION
FOOTBRIDGE HAJ/3
REPLACEMENT WORKS
PROPOSED ELEVATIONS SH1 1 OF 2

Designed	N. Fenwick	Signed	N.F.	Date	25/01/21
Drawn	R. Groves	Signed	R.G.	Date	25/01/21
Checked	D. Wardill	Signed	D.W.	Date	22/02/21
Approved	A. Tyndel	Signed	A.T.	Date	22/02/21
Scale(s)	As Shown @ A1	ELR & Mileage	HAJ - 0m 1331 yards	Sheet	6
Alternative Reference	2020s1501	Drawing Number	EPT-JBAU-00-02-DR-C-1005	Revision	C01



Safety, Health and Environment information		
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant risks		
Construction		
C01	⚡	Electrocution risk due to OLE when working prior to main isolated possession window
C02	⚡	Electrocution risk when removing/altering existing lighting cabling from footbridge
C03	⚠	Falling from height installing new footbridge
C04	⚠	Injury or death from being struck by a train
C05	⚠	Risk of failure and damage to temporary works if not adequately designed.
C06	⚠	Risk associated with voiding of concrete and damaging existing foundations
C07	⚠	Craneage operations during replacement
C08	⚠	Instability of bridge if existing structural elements removed at the same time.
C10	⚠	Lead poisoning if paint exposure not adequately controlled during removal of existing bridge
C09	⚠	Manual handling risks during replacement operation
O1	⚠	Public use and operation
O2	⚠	Maintenance works
D1	⚠	Demolition risks as construction risks

PROPOSED
FOOTBRIDGE