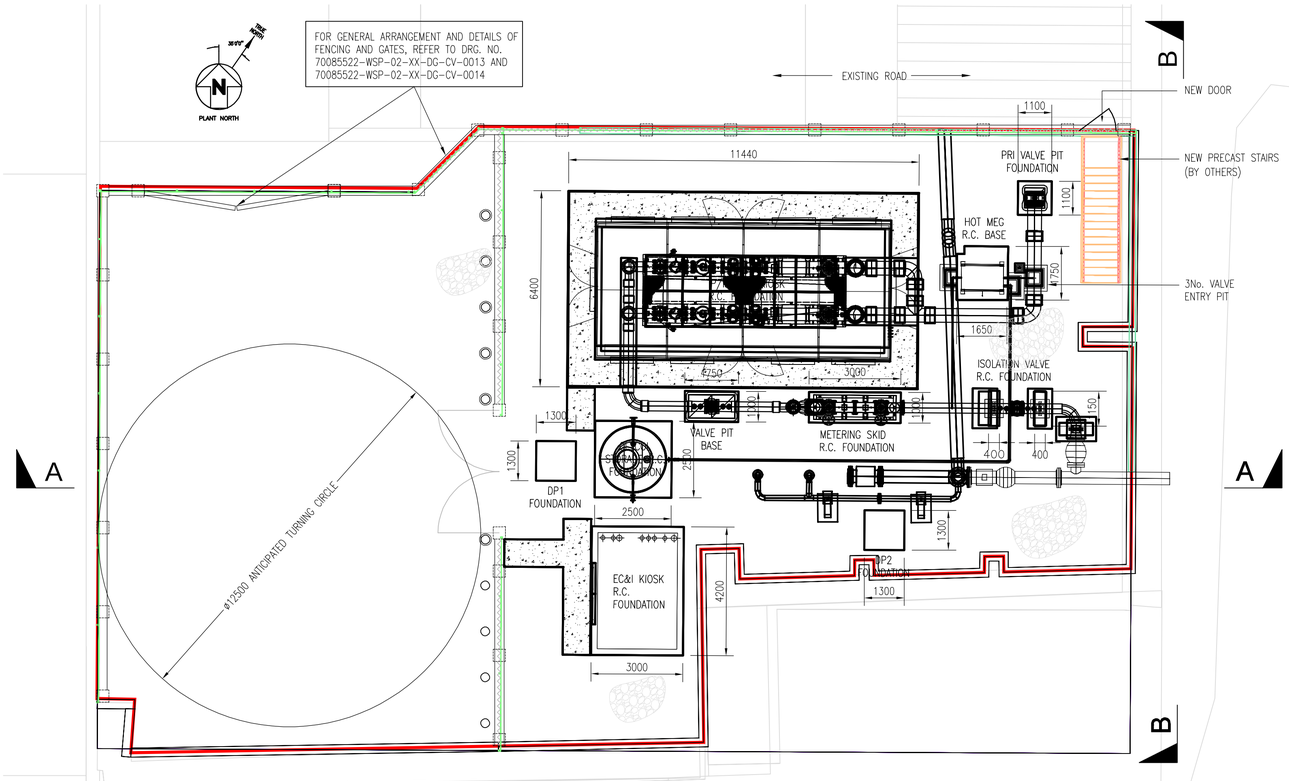
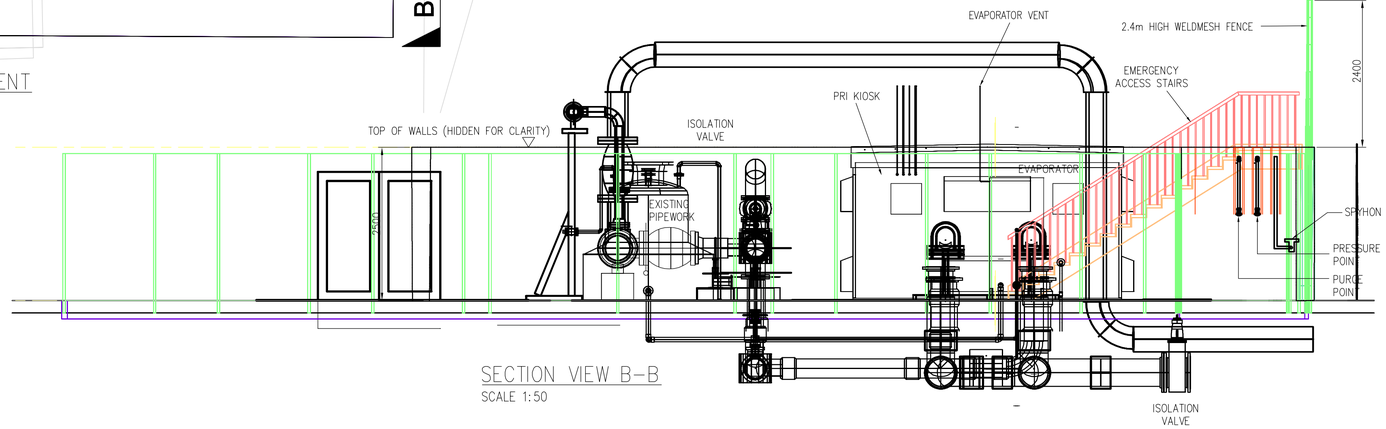
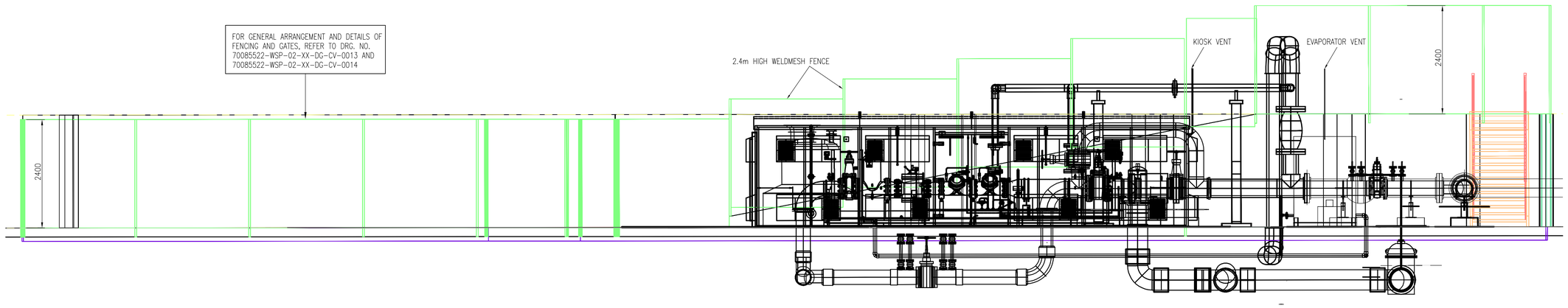


PLAN VIEW GENERAL ARRANGMENT
SCALE 1:100



SECTION VIEW B-B
SCALE 1:50



VIEW ON A-A
SCALE 1:50

0 5 10 m
SCALE 1:100

0 1 2 3 4 5 m
SCALE 1:50

NOTES:
DRAFT ONLY – NOT TO BE UTILISED FOR PLANNING

LEGEND

- CADENT RED LINE DEMISE BOUNDARY
- 2.4m HIGH BLACK WELDMESH FENCE
- BOLLARDS
- REMOVABLE BOLLARDS
- FOOTPATHS
- HARD LANDSCAPING (STONE CHIPPING)

NOTE: REFER TO MECHANICAL DRAWINGS FOR NEW AND EXISTING BELOW AND ABOVE GROUND PIPEWORKS G.A. AND DETAILS

NOTE: REFER TO ELECTRICAL DRAWINGS FOR NEW CABLE DUCTS ROUTE G.A. AND DETAILS

DO NOT SCALE

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0002 – IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0003 – IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0003– IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0005 – IP/MP METERING STATION FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0005 – IP/MP METERING STATION FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0006 – IP/MP HOT MEG UNIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0008 – IP/MP EC&I KIOSK FOUNDATION LAYOUT
70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION RC SECTION & DETAILS
70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0010 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT LAYOUT
70085522-WSP-02-XX-DG-CV-0011 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0011– IP/MP INLET ISOLATION VALVE PIPE SUPPORT BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0012 – IP/MP PAVING PLAN & EXTERNAL WORKS DETAILS
70085522-WSP-02-XX-DG-CV-0013_P01 – FENCING LAYOUT & DETAILS SHEET 1 OF 2
70085522-WSP-02-XX-DG-CV-0014_P01 – FENCING LAYOUT & DETAILS SHEET 2 OF 2
70085522-WSP-02-XX-DG-CV-0015 – GLYCOL STORAGE & VALVE PIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 – DRAW PIT & CABLE DUCTS DETAILS & GA

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	30/06/22	NS	FOUNDATIONS, DRAW PIT AND PIPE ENTRY PIT FOUNDATION ADDED TO SUIT MECHANICAL CHANGES	AA	PK
P02	18/01/21	M.G.	FENCE CORNER CHAMFERED	R.A.	M.T.
P01	13/01/21	R.B.	DRAFT – FOR RED LINE BOUNDARY	R.A.	M.T.

DRAWING STATUS: S2 - FOR INFORMATION

wsp
Manchester First Street, Manchester, M15 4RP, UK
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wsp.com

CLIENT: Cadent – Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - COMPOUND PLANNING PROPOSAL

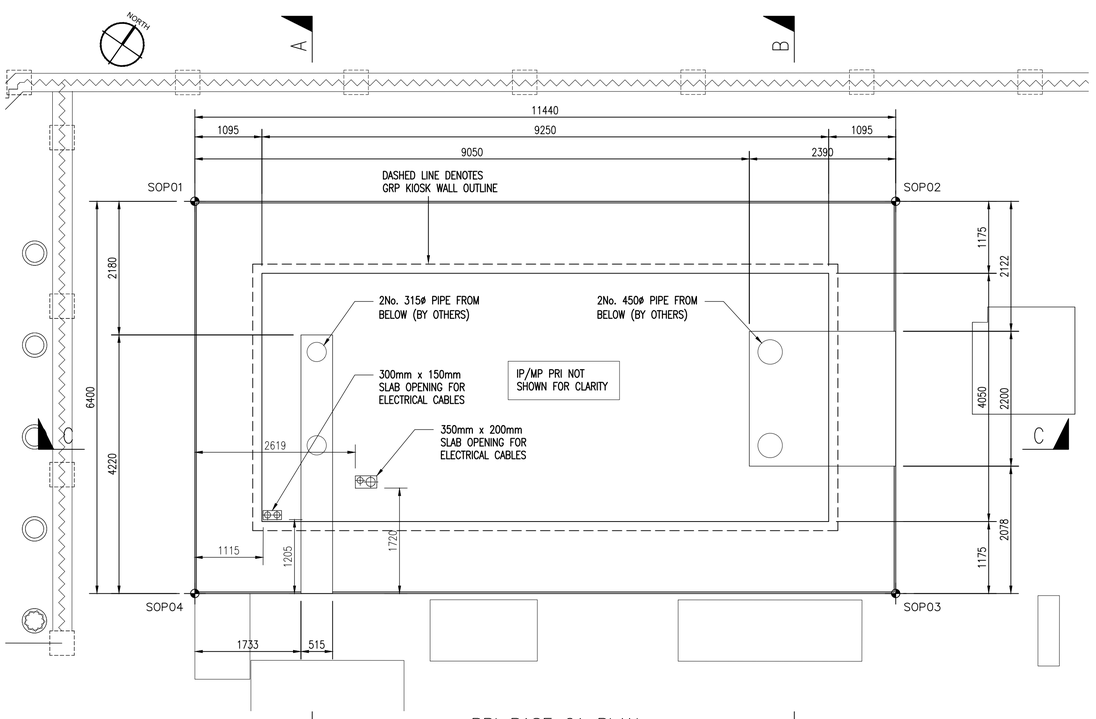
SCALE @ A1:	CHECKED:	APPROVED:
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PROJECT No:	DESIGNED:	DRAWN:	DATE:
70067897	B HALL	N SOGUE	JUNE 2022

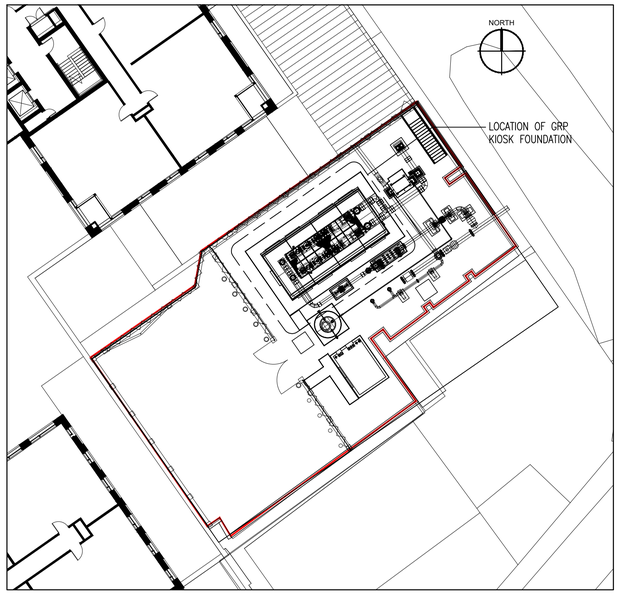
DRAWING No: 70085522-WSP-02-XX-DG-CV-0001 REV: P03

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File name \\UK.WSPGROUP.COM\CENTRAL DATA\PROJECTS\70085XXX\70085522 - CADENT - GOULD STREET DETAILED DESIGN\03 WIP\CV CIVIL\03 DRAWINGS\70085522-WSP-02-XX-DG-CV-0001_P01 - GENERAL ARRANGEMENT.DWG



PRI BASE GA PLAN
SCALE 1:50



SITE LOCATION PLAN
SCALE 1:250

SETTING OUT POINTS

SOP	EASTING	NORTHING
SOP01	384755950	399237635
SOP02	384765364	399244136
SOP03	384769000	399238869
SOP04	384759587	399232369

FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS

1. GENERAL NOTES

1.1. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HEALTH & SAFETY AT WORK ACT 1974 AND THE CONSTRUCTION [DESIGN & MANAGEMENT] REGULATIONS 2015.

1.2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS AND THE PROJECT SPECIFICATION, AND WE HIGHLIGHT THE REFERENCE DRAWINGS LISTED.

1.3. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH NATIONAL GRID TECHNICAL SPECIFICATION GD/SP/CE/1.

1.4. NOTIFY SUPERVISING OFFICER OF ANY VARIATION BETWEEN INFORMATION CONTAINED ON THIS DRAWING AND NATIONAL GRID SPECIFICATION AND OBTAIN WRITTEN APPROVAL BEFORE PROCEEDING.

1.5. DIMENSIONS SHOULD NOT BE SCALED FROM DRAWINGS.

1.6. ALL LEVELS ARE IN METERS AND UNLESS NOTED OTHERWISE ARE STRUCTURAL LEVELS RELATED TO ORDNANCE DATUM.

1.7. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS NOTED OTHERWISE).

1.8. NO HOLES, CHASES, CUT-OUTS ETC MAY BE FORMED IN ANY STRUCTURAL MEMBER UNLESS PRIOR WRITTEN PERMISSION IS OBTAINED FROM THE DESIGNER.

1.9. ALL EXCAVATIONS ARE TO BE KEPT DRY AND FREE OF GROUND WATER DURING THE CONSTRUCTION OF THESE WORKS. DESIGN OF TEMPORARY WORKS FOR SAFE EXCAVATION IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR.

1.10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT ON THE PROJECT.

2. EXCAVATIONS

2.1. ALL MADE GROUND SHALL BE EXCAVATED AND REMOVED, AND REPLACED BY GRANULAR FILL TO A SUITABLE FORMATION LEVEL. THE FORMATION SHOULD BE PROOF ROLLED BEFORE RECEIVING THE GRANULAR FILL (400mm MIN TO BE REMOVED).

2.2. SOFT OR UNSUITABLE GROUND BELOW FORMATION LEVEL SHALL BE EXCAVATED AND FILLED WITH GRANULAR FILL, PLACED AND COMPACTED IN LAYERS.

2.3. UNSUITABLE GROUND INCLUDES: ORGANIC MATERIAL (FIBROUS, SPONGY OR SOFT DARK MATERIAL), SOFT CLAYS (COHESIVE MATERIAL THAT CAN BE MOULDED BY LIGHT FINGER PRESSURE).

2.4. A MINIMUM BEARING CAPACITY OF 50kN/m² IS REQUIRED AT FOUNDATION FORMATION LEVEL.

2.5. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 225mm.

2.6. ANY LARGE VOIDS SHOULD BE REPORTED TO THE ENGINEER FOR INVESTIGATION.

3. HEALTH & SAFETY NOTES

3.1. THE SUPPLY OF EXISTING INFORMATION BY WSP DOES NOT IMPLY ACCEPTANCE OR ACCURACY OF THIS INFORMATION AND THE PRINCIPAL CONTRACTOR MUST CONFIRM THESE DETAILS [BY CAT SCAN OR OTHER MEANS] BEFORE PROGRESSING ANY OF THE WORKS.

3.2. NATIONAL GRID SPECIFICATION GD/SP/SSW/22 SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE. CONTRACTOR TO FOLLOW THE GUIDANCE GIVEN IN HSG47 WHEN CARRYING OUT EXCAVATION WORK IN ORDER TO MINIMISE THE RISK OF CONTACT WITH BURIED SERVICES.

3.3. NO WORK SHALL BE CARRIED WITHOUT PRESENCE OF CADENT SAFE CONTROL OF THE OPERATION REPRESENTATIVE.

3.4. HSG47 AVOIDING DANGER FROM UNDERGROUND SERVICES SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE.

3.5. RISK ASSESSMENT AND METHOD STATEMENT TO BE SUBMITTED TO CADENT FOR APPROVAL PRIOR TO CONSTRUCTION.

DO NOT SCALE

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 – IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0003 – IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0003– IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0004 – IP/MP METERING STATION FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0005 – IP/MP METERING STATION FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0005 – IP/MP METERING STATION FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0006 – IP/MP HOT MEG UNIT FOUNDATION LAYOUT
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70085522-WSP-02-XX-SH-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION BAR BENDING SCHEDULE
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70085522-WSP-02-XX-DG-CV-0011 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT RC SECTIONS & DETAILS
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70085522-WSP-02-XX-DG-CV-0013_P01 – FENCING LAYOUT & DETAILS SHEET 1 OF 2
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70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 – DRAW PIT & CABLE DUCTS DETAILS & GA

LEGEND:

GL : EXISTING GROUND LEVEL
TOC : TOP OF CONCRETE

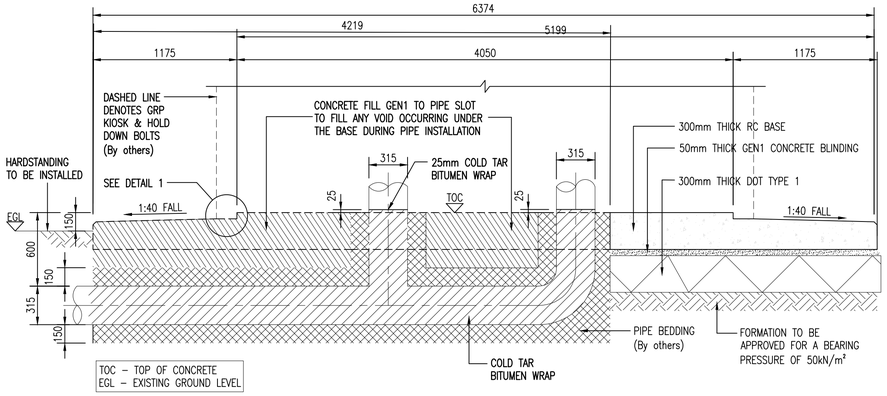
3.6. KEY TO HEALTH AND SAFETY SYMBOLS:

INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.

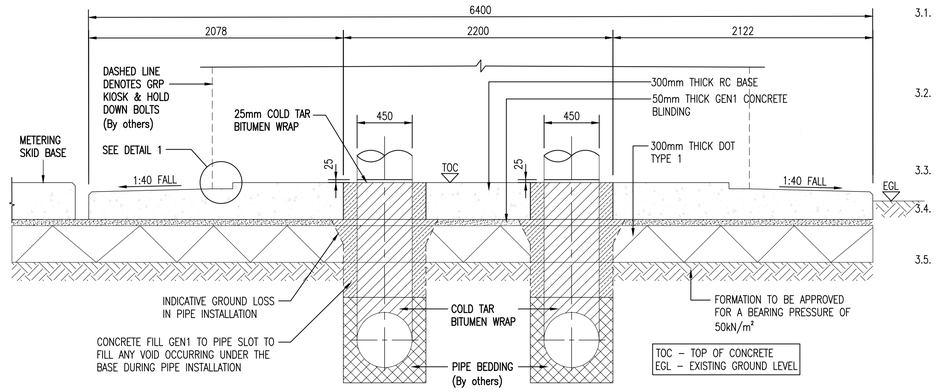
INDICATES A RESIDUAL RISK FOR INFORMATION.

INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.

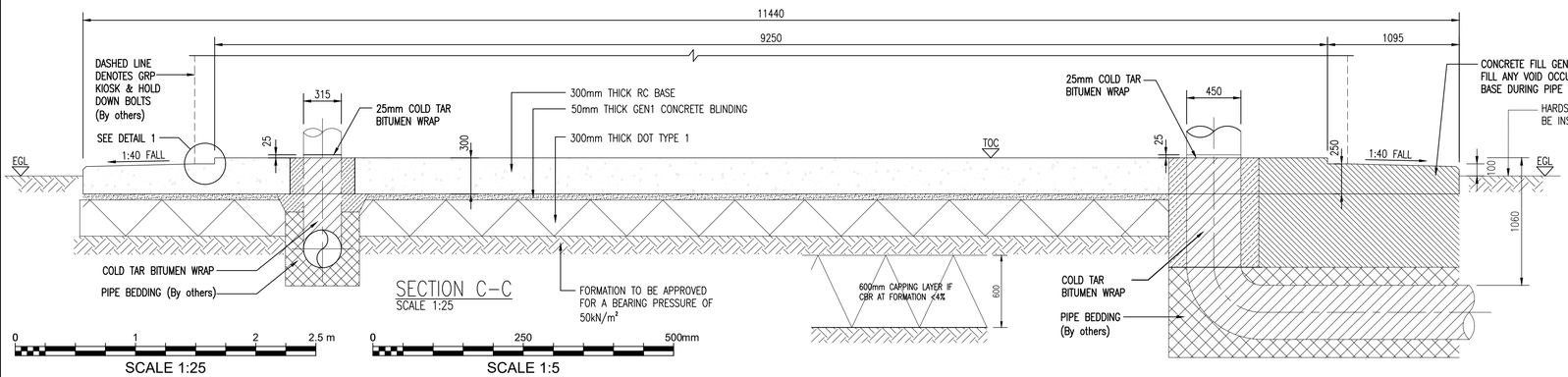
INDICATES A RESIDUAL RISK AS A WARNING.



SECTION A-A
SCALE 1:25



SECTION B-B
SCALE 1:25



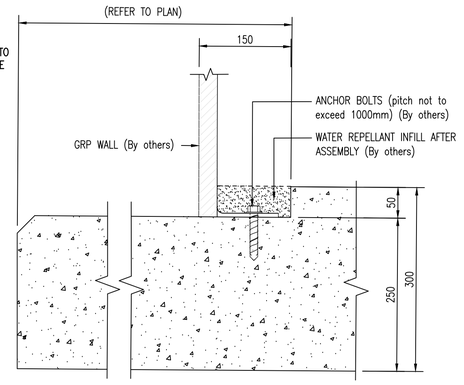
SECTION C-C
SCALE 1:25

0 1 2 2.5 m
SCALE 1:25

0 250 500mm
SCALE 1:5

0 1 2 3 4 5 m
SCALE 1:50

0 12.5 25 m
SCALE 1:250



DETAIL 1 – CONCRETE REBATE DETAIL
SCALE 1:5

P03	12-08-2022	MP	DETAILS UPDATED AS PER G17 COMMENTS – CONCRETE FILL AREA & SLOPE ON FOOTPATH	RD	PK
P02	30/06/2022	NS	PRI BASE PIPE OPENING UPDATED TO SUIT NEW PIPE SIZES, SETTING OUT OF SLAB UPDATED AND DIMS UPDATED TO SUIT CHANGES.	AA	PK
P01	19-02-2021	BH	PRELIMINARY ISSUE	MG	PK
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S2 - FOR INFORMATION

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Manchester First Street, Manchester, M15 4RP, UK
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wsp.com

CLIENT: Cadent – Your Gas Network

SITE/PROJECT: GOULD STREET

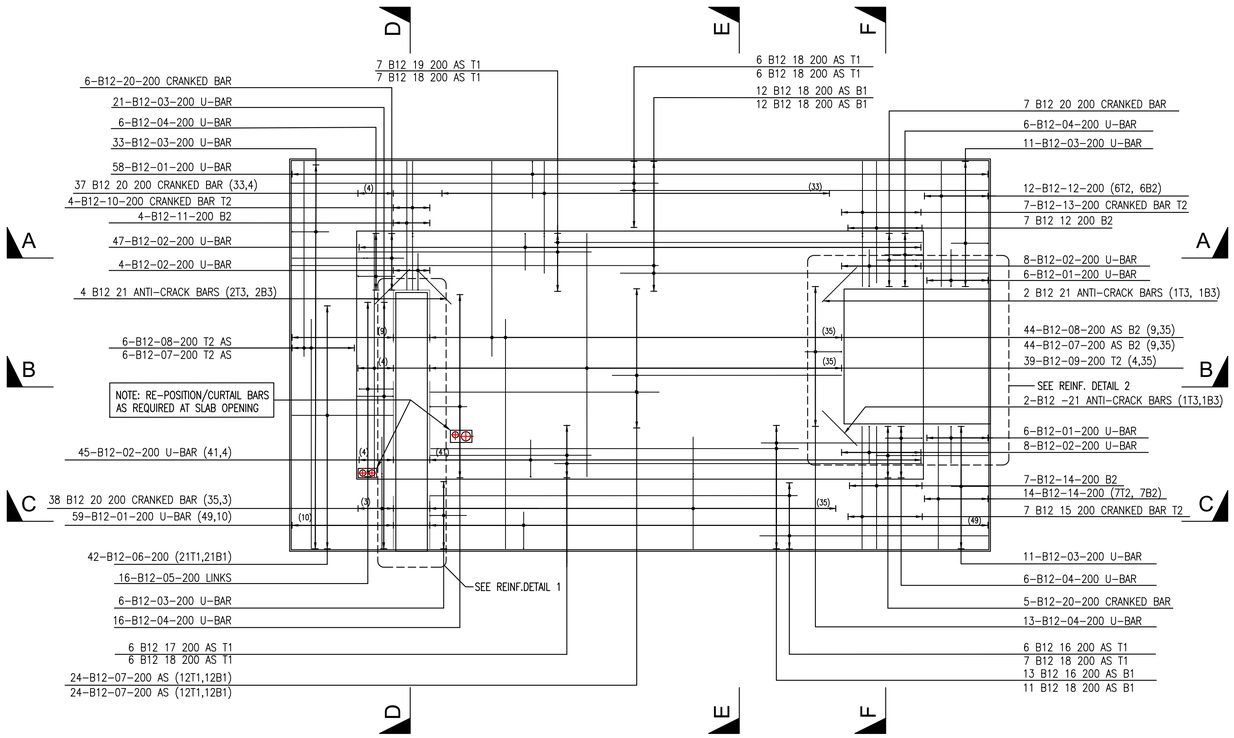
TITLE: BILBROOK STREET- IP/MP PRI FOUNDATION LAYOUT

SCALE @ A1:	CHECKED:		APPROVED:
AS SHOWN	R DAWSON		P KENYON
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70085522	B HALL	N SOGUE	AUGUST 2022

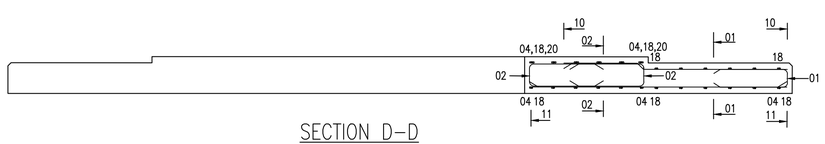
DRAWING No: 70085522-WSP-02-XX-DG-CV-0002 REV: P03

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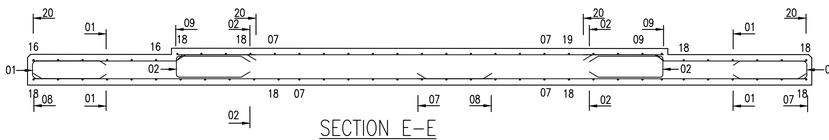
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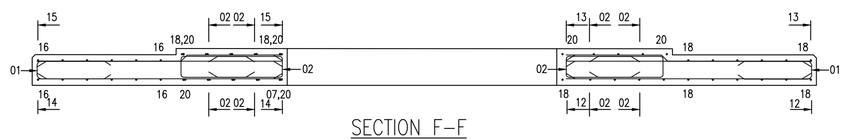
PLAN ON PRI R.C. FOUNDATION
SCALE 1:50



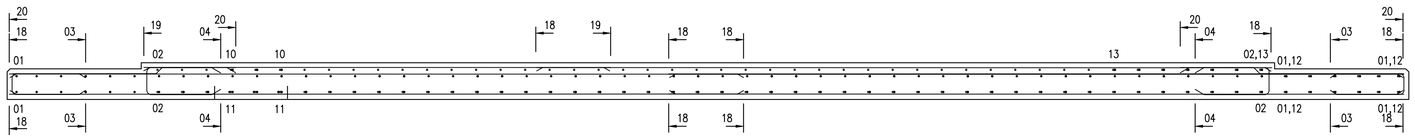
SECTION D-D
SCALE 1:25



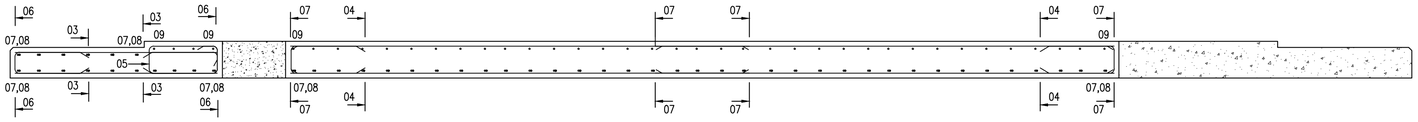
SECTION E-E
SCALE 1:25



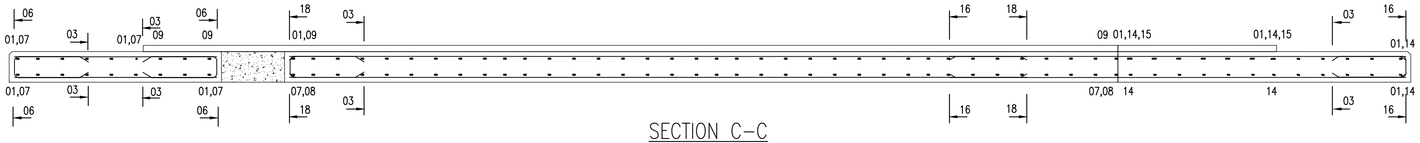
SECTION F-F
SCALE 1:25



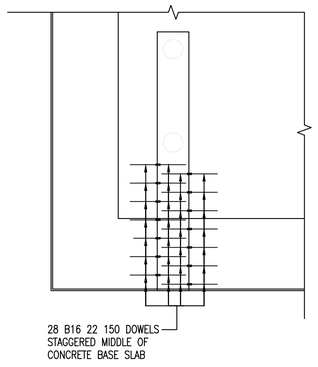
SECTION A-A
SCALE 1:25



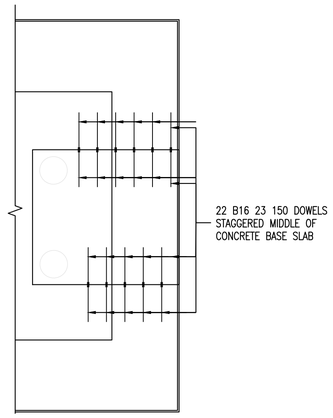
SECTION B-B
SCALE 1:25



SECTION C-C
SCALE 1:25



REINFORCEMENT DETAIL 1
SCALE 1:50



REINFORCEMENT DETAIL 2
SCALE 1:50

FOR GENERAL NOTES AND HEALTH AND SAFETY NOTES REFER TO DRAWING 70085522-WSP-02-XX-DG-CV-0001

1. CONCRETE GENERAL:

1.1. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH CADENT TECHNICAL SPECIFICATION GD/SP/CE/1.

1.2. CONCRETE SPECIFICATION SHALL BE AS FOLLOWS:

CONCRETE SPECIFICATION TO BS 8500-2		
	LOADING AT MIN 7-DAY STRENGTH	
	DESIGNATED CONCRETE	STRENGTH CLASS
BASE SLAB	RC50XF	C40/50
BLINDING	GEN 1	
CONCRETE FILL	GEN 1 (SLUMP CLASS S4)	

1.3. STRUCTURAL CONCRETE SHALL BE DC-4 FOR ACEC CLASS AC-4 AND DESIGN SULPHATE CLASS DS-4.

1.4. CONCRETE BLINDING SURFACE FINISH (WITHOUT POLYETHYLENE SHEET COVER) SHALL HAVE TAMPED FINISH IN COMPLIANCE CADENT GD/SP/CE/1: CLAUSE 4.2.6.4.

1.5. STRUCTURAL CONCRETE SURFACES SUBJECTED TO PEDESTRIAN TRAFFIC SHALL HAVE BRUSHED FINISH IN COMPLIANCE WITH CADENT GD/SP/CE/1: CLAUSE 4.2.14.1.

2. REINFORCED CONCRETE

2.1. MAIN CONTRACTOR IS TO SUBMIT TO THE CADENT SUPERVISING OFFICER FOR APPROVAL 10 DAYS PRIOR TO COMMENCEMENT OF WORK DETAILS OF PROPOSED DAY/CONSTRUCTION JOINTS UNLESS AGREED OTHERWISE

2.2. NOMINAL COVER TO ALL REINFORCEMENT TO BE 40mm UNLESS SHOWN OTHERWISE ON DRAWING.

2.3. ALL EXPOSED ARISES SHALL HAVE 25mm CHAMFERS.

2.4. THE PRINCIPAL CONTRACTOR IS TO PROVIDE ALL NECESSARY CHAIRS AND SPACERS TO MAINTAIN CONCRETE COVER AND CORRECT PLACEMENT OF THE REINFORCEMENT.

2.5. THE CONTRACTOR IS RESPONSIBLE FOR THE DETAILING OF ANY CHAIRS WHICH ARE REQUIRED.

2.6. CONSTRUCTION METHOD STATEMENT TO BE SUBMITTED FOR COMMENT 10 DAYS PRIOR TO COMMENCEMENT OF THE WORK.

2.7. REINFORCEMENT NOTATION USED:

```
No      BAR MARK    LOCATION   DESCRIPTION
|         |           |          |
10 - B12 - 01 - 300 - B2 - UBARS
     |              |
  TYPE / DIA     CENTRES
```

2.8. STEEL TYPE:
B = GRADE B500B OR B500C TO BS 4449:2005

2.9. BAR LOCATION ABBREVIATIONS USED
SLAB:-
T1 - TOP OUTER LAYER
T2 - TOP INNER LAYER
B2 - BOTTOM INNER LAYER
B1 - BOTTOM OUTER LAYER

2.10. MINIMUM LAPS TO BE :
B10 = 440mm
B12 = 570mm
B16 = 830mm
B20 = 1100mm
B25 = 1420mm
UNLESS NOTED OTHERWISE

2.11. BAR REINFORCEMENT TO BE TO BS4449:2005 & REBAR CUTTING AND BENDING TO BS8666:2005

2.12. FABRIC REINFORCEMENT TO BE TO BS4483:2005

2.13. SEE 70085522-WSP-02-XX-DG-CV-0003-BS01 FOR BAR BENDING SCHEDULE

2.14. WHERE STARTER BARS AND CONTINUITY BARS PROJECT FROM THE CONCRETE, THERE IS A RISK OF INJURY. THE REINFORCEMENT HAS BEEN DETAILED ASSUMING THAT THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO MITIGATE THIS RISK.

DO NOT SCALE

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 - IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0002 - IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-SH-CV-0003- IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0004 - IP/MP METERING STATION FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0005 - IP/MP METERING STATION FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0005 - IP/MP METERING STATION FOUNDATION BAR BENDING SCHEDULE
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70085522-WSP-02-XX-SH-CV-0007 - IP/MP HOT MEG UNIT FOUNDATION BAR BENDING SCHEDULE
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70085522-WSP-02-XX-DG-CV-0010 - IP/MP INLET ISOLATION VALVE PIPE SUPPORT LAYOUT
70085522-WSP-02-XX-DG-CV-0011 - IP/MP INLET ISOLATION VALVE PIPE SUPPORT RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0011- IP/MP INLET ISOLATION VALVE PIPE SUPPORT BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0012 - IP/MP PAVING PLAN & EXTERNAL WORKS DETAILS
70085522-WSP-02-XX-DG-CV-0013_P01 - FENCING LAYOUT & DETAILS SHEET 1 OF 2
70085522-WSP-02-XX-DG-CV-0014_P01 - FENCING LAYOUT & DETAILS SHEET 2 OF 2
70085522-WSP-02-XX-DG-CV-0015_P01 - GLYCOL STORAGE FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0016 - GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 - DRAW PIT & CABLE DUCTS DETAILS & GA

REV	DATE	BY	DESCRIPTION	CHK	APP
P04	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P03	11/11/2022	MP	DETAILS UPDATED AS PER G17 COMMENTS – LONGER LINKED BARS REMOVED	MP	RD
P02	30/06/2022	NS	SECOND ISSUE	AA	PK
P01	19-02-2021	BH	PRELIMINARY ISSUE	MG	PK

DRAWING STATUS: S2 - FOR INFORMATION

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Manchester First Street, Manchester, M15 4RP, UK
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wsp.com

CLIENT: Cadent – Your Gas Network

SITE/PROJECT: GOULD STREET

TITLE: BILBROOK STREET - IP/MP PRI FOUNDATION R.C. SECTIONS & DETAILS

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	BH	AA

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70085522	MP	JL	DECEMBER 2022

DRAWING No: 70085522-WSP-02-XX-DG-CV-0003 REV: P04

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0 1 2 3 4 5 m
SCALE 1:50

0 1 2 2.5 m
SCALE 1:25

File name: \\UK.WSPGROUP.COM\CENTRAL DATA\PROJECTS\70085XX\70085522 - CADENT - GOULD STREET DETAILED DESIGN\03 WIP\CV CIVIL\03 DRAWINGS\70085522-WSP-02-XX-DG-CV-0003_P02 - PRI FOUNDATION RC SECTIONS & DETAILS.DWG, printed on 30 November 2022 09:26:13, by Lomas, Jake

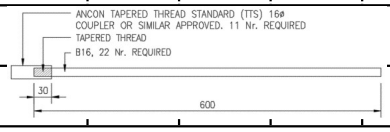
Project	Gould Street IP/MP PRI			Status	PRELIMINARY
Date By Checked	14-Nov-22 MP RD	Job no 70085522	Drawing no WSP-02-XX-DR-CV-0003	Schedule no SH 01	Rev P03

Rev	Date	Details
P02	30-Jun-22	SECOND ISSUE

Tel +44 (0) 161 200 5000
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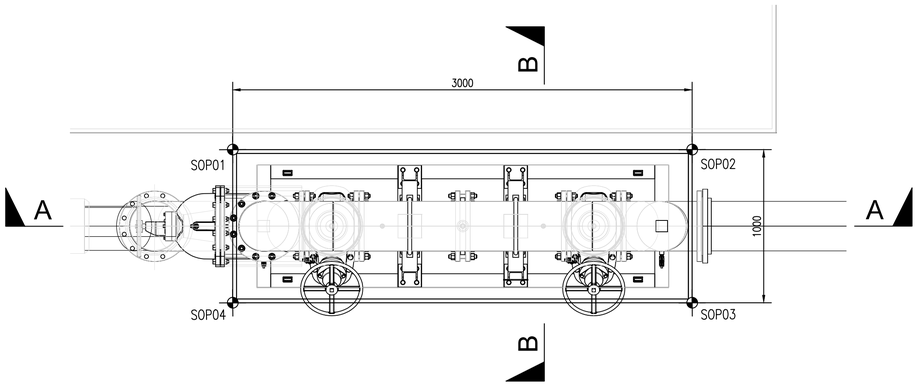
Part

PRI FOUNDATION

Member	Bar mark	Type and size	No of mbrs	No of bars in each	Total no of bars	Length of each bar mm †	Shape code	*A* * mm	*B* * mm	*C* * mm	*D* * mm	*E/R* * mm	Rev letter
SLAB	01	B 12	1	125	125	1300	21	600	145	600			P2
	02	B 12	1	112	112	1350	21	600	195	600			P2
	03	B 12	1	82	82	1325	21	600	170	600			P2
	04	B 12	1	47	47	1375	21	600	220	600			P2
	05	B 12	1	16	16	1750	51	555	220	160			P2
	06	B 12	1	42	42	1625	00	1625					P2
	07	B 12	1	100	100	3750	00	3745					P2
	08	B 12	1	53	53	3200	00	3180					P2
	09	B 12	1	39	39	3975	00	3970					P2
	10	B 12	1	4	4	1850	26	1175	70	600	55		P2
	11	B 12	1	4	4	2100	00	2100					P2
	12	B 12	1	19	19	2050	00	2040					P2
	13	B 12	1	7	7	2025	26	1175	70	775	55		P2
	14	B 12	1	21	21	2000	00	1995					P2
	15	B 12	1	7	7	2025	26	1175	70	775	55		P2
	16	B 12	1	20	20	3725	00	3725					P2
	17	B 12	1	6	6	2650	00	2635					P2
	18	B 12	1	67	67	6000	00	6000					P2
	19	B 12	1	7	7	3825	00	3810					P2
	20	B 12	1	93	93	1850	26	1175	70	600	55		P2
	21	B 12	1	8	8	800	00	800					P2
	22	B 16	1	28	28	450	00	450					P2
	23	B 16	1	22	22	600	00	600					P2
													

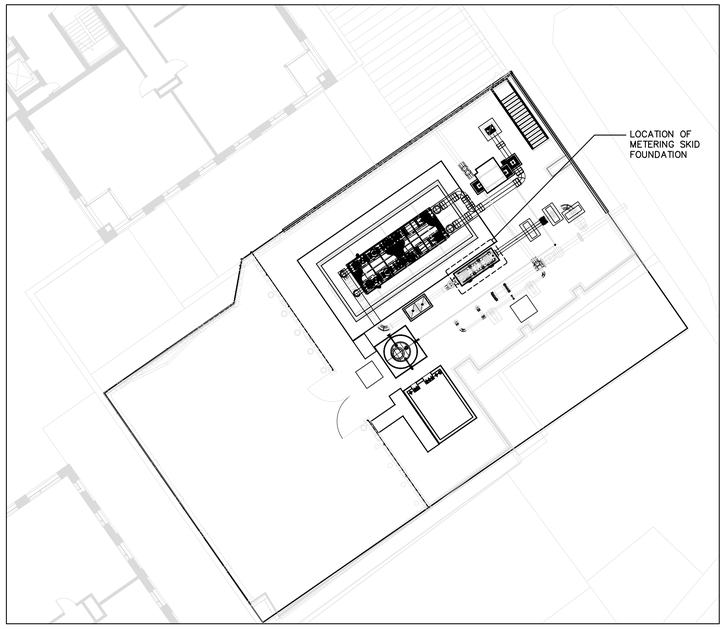
This schedule complies with Eurocode 2 & BS 8666:2005

* Specified in multiples of 5 mm. † Specified in multiples of 25 mm.



PLAN ON METERING STATION FOUNDATION
SCALE 1:20

METERING SKID FOUNDATION SETTING OUT POINTS		
REFERENCE	EASTING	NORTHING
SOP01	384766145	399236764
SOP02	384766613	399238468
SOP03	384769181	399237645
SOP04	384766713	399235941
FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS		



SITE LOCATION PLAN
SCALE 1:200

1. GENERAL NOTES

1.1. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HEALTH & SAFETY AT WORK ACT 1974 AND THE CONSTRUCTION [DESIGN & MANAGEMENT] REGULATIONS 2015.

1.2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS AND THE PROJECT SPECIFICATION, AND WE HIGHLIGHT THE REFERENCE DRAWINGS LISTED.

1.3. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH NATIONAL GRID TECHNICAL SPECIFICATION GD/SP/CE/1.

1.4. NOTIFY SUPERVISING OFFICER OF ANY VARIATION BETWEEN INFORMATION CONTAINED ON THIS DRAWING AND NATIONAL GRID SPECIFICATION AND OBTAIN WRITTEN APPROVAL BEFORE PROCEEDING.

1.5. DIMENSIONS SHOULD NOT BE SCALED FROM DRAWINGS.

1.6. ALL LEVELS ARE IN METERS AND UNLESS NOTED OTHERWISE ARE STRUCTURAL LEVELS RELATED TO ORDNANCE DATUM.

1.7. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS NOTED OTHERWISE).

1.8. NO HOLES, CHASES, CUT-OUTS ETC MAY BE FORMED IN ANY STRUCTURAL MEMBER UNLESS PRIOR WRITTEN PERMISSION IS OBTAINED FROM THE DESIGNER.

1.9. ALL EXCAVATIONS ARE TO BE KEPT DRY AND FREE OF GROUND WATER DURING THE CONSTRUCTION OF THESE WORKS. DESIGN OF TEMPORARY WORKS FOR SAFE EXCAVATION IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR.

1.10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT ON THE PROJECT.

1.11. ALL CONCRETE TO HAVE BRUSHED FINISH WITH A MDEIUM STRENGTH BRISTLE AT RIGHT ANGLES TO THE MAIN TRAVEL PATH WITH THE GROOVES AT NOMINAL DEPTH OF 1mm.

2. EXCAVATIONS

2.1. ALL MADE GROUND SHALL BE EXCAVATED AND REMOVED, AND REPLACED BY GRANULAR FILL TO A SUITABLE FORMATION LEVEL. THE FORMATION SHOULD BE PROOF ROLLED BEFORE RECEIVING THE GRANULAR FILL (400mm MIN TO BE REMOVED).

2.2. SOFT OR UNSUITABLE GROUND BELOW FORMATION LEVEL SHALL BE EXCAVATED AND FILLED WITH GRANULAR FILL, PLACED AND COMPACTED IN LAYERS.

2.3. UNSUITABLE GROUND INCLUDES: ORGANIC MATERIAL (FIBROUS, SPONGY OR SOFT DARK MATERIAL), SOFT CLAYS (COHESIVE MATERIAL THAT CAN BE MOULDED BY LIGHT FINGER PRESSURE).

2.4. A MINIMUM BEARING CAPACITY OF 25 kN/m^2 IS REQUIRED AT FOUNDATION FORMATION LEVEL.

2.5. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 225mm.

2.6. ANY LARGE VOIDS SHOULD BE REPORTED TO THE ENGINEER FOR INVESTIGATION.

3. HEALTH & SAFETY NOTES

3.1. THE SUPPLY OF EXISTING INFORMATION BY WSP DOES NOT IMPLY ACCEPTANCE OR ACCURACY OF THIS INFORMATION AND THE PRINCIPAL CONTRACTOR MUST CONFIRM THESE DETAILS [BY CAT SCAN OR OTHER MEANS] BEFORE PROGRESSING ANY OF THE WORKS.

3.2. NATIONAL GRID SPECIFICATION GD/SP/SSW/22 SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE. CONTRACTOR TO FOLLOW THE GUIDANCE GIVEN IN HSG47 WHEN CARRYING OUT EXCAVATION WORK IN ORDER TO MINIMISE THE RISK OF CONTACT WITH BURIED SERVICES.

3.3. NO WORK SHALL BE CARRIED WITHOUT PRESENCE OF CADENT SAFE CONTROL OF THE OPERATION REPRESENTATIVE.

3.4. HSG47 AVOIDING DANGER FROM UNDERGROUND SERVICES SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE.

3.5. RISK ASSESSMENT AND METHOD STATEMENT TO BE SUBMITTED TO CADENT FOR APPROVAL PRIOR TO CONSTRUCTION.

3.6. KEY TO HEALTH AND SAFETY SYMBOLS:

INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.

INDICATES A RESIDUAL RISK FOR INFORMATION.

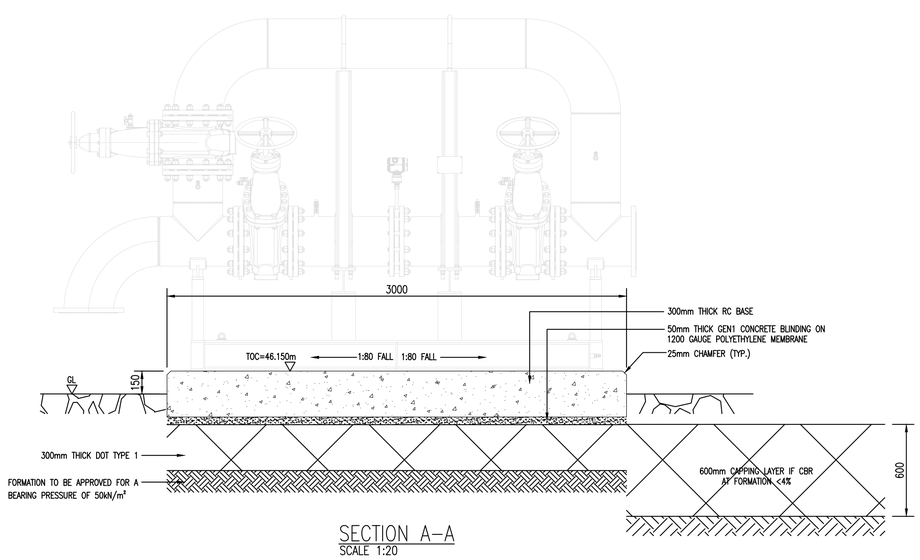
INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.

INDICATES A RESIDUAL RISK AS A WARNING.

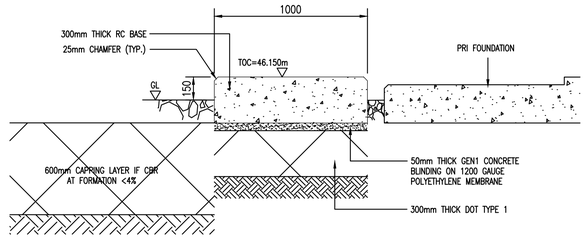
DO NOT SCALE

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 – IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0002 – IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0003 – IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0003– IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0005 – IP/MP METERING STATION FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0005 – IP/MP METERING STATION FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0006 – IP/MP HOT MEG UNIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0008 – IP/MP EC&I KIOSK FOUNDATION LAYOUT
70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION RC SECTION & DETAILS
70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0010 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT LAYOUT
70085522-WSP-02-XX-DG-CV-0011 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0011– IP/MP INLET ISOLATION VALVE PIPE SUPPORT BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0012 – IP/MP PAVING PLAN & EXTERNAL WORKS DETAILS
70085522-WSP-02-XX-DG-CV-0013_P01 – FENCING LAYOUT & DETAILS SHEET 1 OF 2
70085522-WSP-02-XX-DG-CV-0014_P01 – FENCING LAYOUT & DETAILS SHEET 2 OF 2
70085522-WSP-02-XX-DG-CV-0015 – GLYCOL STORAGE & VALVE PIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 – DRAW PIT & CABLE DUCTS DETAILS & GA



SECTION A–A
SCALE 1:20



SECTION B–B
SCALE 1:20

0 1 2 m
SCALE 1:20

0 10 20 m
SCALE 1:200

REV	DATE	BY	DESCRIPTION	CHK	APP
P02	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P01	30/06/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

Manchester First Street, Manchester, M15 4RP, UK
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wsp.com

CLIENT: Cadent – Your Gas Network

PROJECT: GOULD STREET

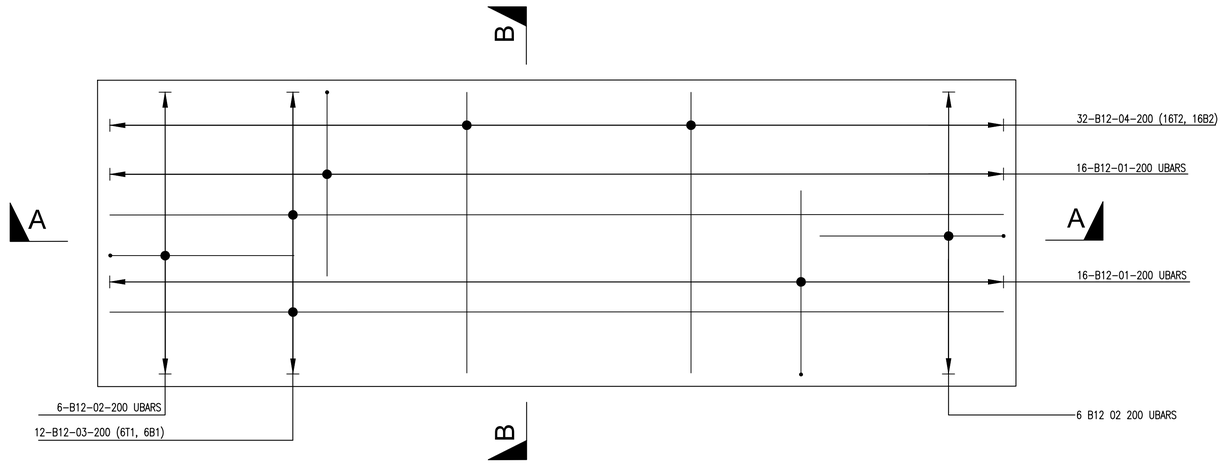
TITLE: BILBROOK STREET - IP/MP METERING STATION FOUNDATION LAYOUT

SCALE @ A1:	CHECKED:		APPROVED:
AS SHOWN	R DAWSON		P KENYON
PROJECT No:	DESIGNED:	DRAWN:	DATE:
70085522	M POTTER	J LOMAS	DECEMBER 2022

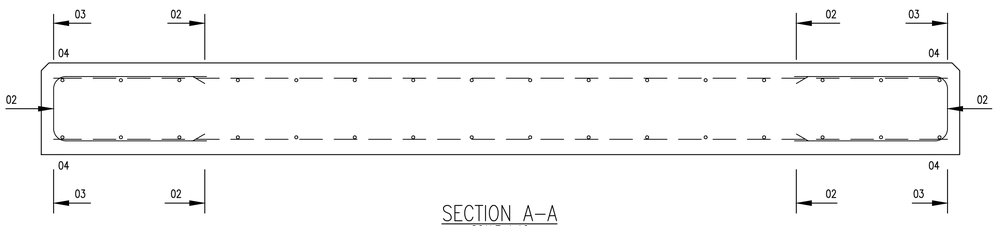
DRAWING No.: 70085522-WSP-02-XX-DG-CV-0004 REV: P02

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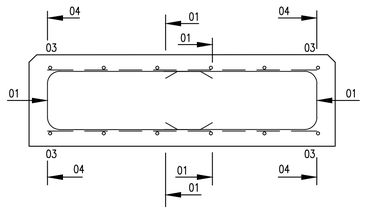
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PLAN ON EC&I KIOSK FOUNDATION
SCALE 1:10



SECTION A-A
SCALE 1:10



SECTION B-B
SCALE 1:10

FOR GENERAL NOTES AND HEALTH AND SAFETY NOTES REFER TO DRAWING 70085522-WSP-02-XX-DG-CV-0001

1. CONCRETE GENERAL:

1.1. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH CADENT TECHNICAL SPECIFICATION GD/SP/CE/1.

1.2. CONCRETE SPECIFICATION SHALL BE AS FOLLOWS:

CONCRETE SPECIFICATION TO BS 8500-2		
	LOADING AT MIN 7-DAY STRENGTH	
	DESIGNATED CONCRETE	STRENGTH CLASS
BASE SLAB	RC50XF	C40/50
BLINDING	GEN 1	
CONCRETE FILL	GEN 1 (SLUMP CLASS S4)	

1.3. STRUCTURAL CONCRETE SHALL BE DC-4 FOR ACEC CLASS AC-4 AND DESIGN SULPHATE CLASS DS-4.

1.4. CONCRETE BLINDING SURFACE FINISH (WITHOUT POLYETHYLENE SHEET COVER) SHALL HAVE TAMPED FINISH IN COMPLIANCE CADENT GD/SP/CE/1: CLAUSE 4.2.6.4.

1.5. STRUCTURAL CONCRETE SURFACES SUBJECTED TO PEDESTRIAN TRAFFIC SHALL HAVE BRUSHED FINISH IN COMPLIANCE WITH CADENT GD/SP/CE/1: CLAUSE 4.2.14.1.

2. REINFORCED CONCRETE

2.1. MAIN CONTRACTOR IS TO SUBMIT TO THE CADENT SUPERVISING OFFICER FOR APPROVAL 10 DAYS PRIOR TO COMMENCEMENT OF WORK DETAILS OF PROPOSED DAY/CONSTRUCTION JOINTS UNLESS AGREED OTHERWISE

2.2. NOMINAL COVER TO ALL REINFORCEMENT TO BE 40mm UNLESS SHOWN OTHERWISE ON DRAWING.

2.3. ALL EXPOSED ARISES SHALL HAVE 25mm CHAMFERS.

2.4. THE PRINCIPAL CONTRACTOR IS TO PROVIDE ALL NECESSARY CHAIRS AND SPACERS TO MAINTAIN CONCRETE COVER AND CORRECT PLACEMENT OF THE REINFORCEMENT.

2.5. THE CONTRACTOR IS RESPONSIBLE FOR THE DETAILING OF ANY CHAIRS WHICH ARE REQUIRED.

2.6. CONSTRUCTION METHOD STATEMENT TO BE SUBMITTED FOR COMMENT 10 DAYS PRIOR TO COMMENCEMENT OF THE WORK.

2.7. REINFORCEMENT NOTATION USED:

No – BAR MARK – LOCATION – DESCRIPTION
10 – B12 – 01 – 300 – B2 – UBARS
TYPE / DIA – CENTRES

2.8. STEEL TYPE:
B = GRADE B500B OR B500C TO BS 4449:2005

2.9. BAR LOCATION ABBREVIATIONS USED
SLAB:–
T1 – TOP OUTER LAYER
T2 – TOP INNER LAYER
B2 – BOTTOM INNER LAYER
B1 – BOTTOM OUTER LAYER

2.10. MINIMUM LAPS TO BE :
B10 = 440mm
B12 = 570mm
B16 = 830mm
B20 = 1100mm
B25 = 1420mm
UNLESS NOTED OTHERWISE

2.11. BAR REINFORCEMENT TO BE TO BS4449:2005 & REBAR CUTTING AND BENDING TO BS8666:2005

2.12. FABRIC REINFORCEMENT TO BE TO BS4483:2005

2.13. SEE 70085522-WSP-02-XX-DG-CV-0005_BS01 FOR BAR BENDING SCHEDULE

2.14. WHERE STARTER BARS AND CONTINUITY BARS PROJECT FROM THE CONCRETE, THERE IS A RISK OF INJURY. THE REINFORCEMENT HAS BEEN DETAILED ASSUMING THAT THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO MITIGATE THIS RISK.

0 0.5 1 m
SCALE 1:10

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 – IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0002 – IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0003 – IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0003– IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0004 – IP/MP METERING STATION FOUNDATION LAYOUT
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70085522-WSP-02-XX-DG-CV-0017_P01 – DRAW PIT & CABLE DUCTS DETAILS & GA

REV	DATE	BY	DESCRIPTION	CHK	APP
P02	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P01	30/06/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

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Manchester First Street, Manchester, M15 4RP, UK
T+ 44 (0) 161 200 5000, F+ 44 (0) 161 200 5001
wsp.com

CLIENT: Cadent – Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - IP/MP METERING STATION RC SECTIONS & DETAILS

SCALE @ A1:	CHECKED:	APPROVED:
1:100	R DAWSON	P KENYON

PROJECT No:	DESIGNED:	DRAWN:	DATE:
70085522	M POTTER	J LOMAS	DECEMBER 2022

DRAWING No: 70085522-WSP-02-XX-DG-CV-0005 REV: P02

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File name \\UK-WSPGROUP.COM\CENTRAL DATA\PROJECTS\70085XXX\70085522 - CADENT - GOULD STREET DETAILED DESIGN\03 1WIP\CV CIVIL\03 DRAWINGS\70085522-WSP-02-XX-DG-CV-0005_P01 - METERING STATION RC SECTIONS & DETAILS.DWG

Project	Bilbrook Street - IP/MP			Status	
				PRELIMINARY	
Date	30-Jun-22	Job no	Drawing no	Schedule no	Rev
By	NS	70085522	WSP-02-XX-DG-CV-0005	SH 01	P01
Checked	AA				

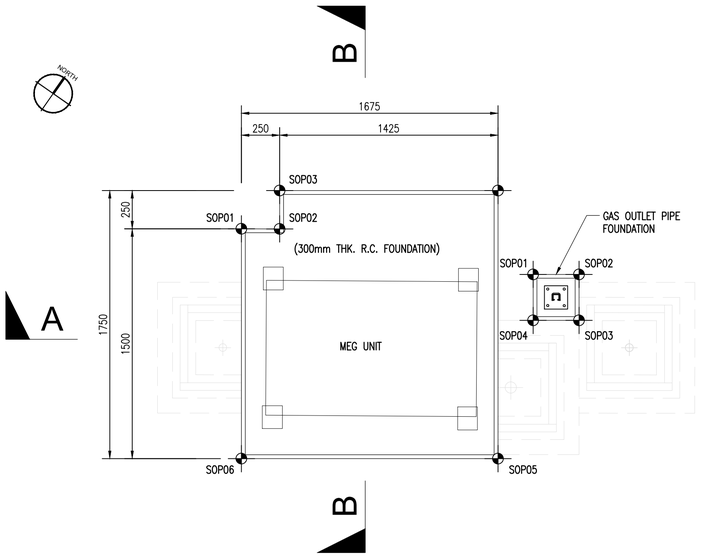
Rev	Date	Details	Tel	+44 (0) 161 200 5000
P01	30-Jun-22	FIRST ISSUE	Fax	+44 (0) 161 200 5001

Part: Metering Station Foundation

Member	Bar mark	Type and size	No of mbrs	No of bars in each	Total no of bars	Length of each bar mm †	Shape code	*A* * mm	*B* * mm	*C* * mm	*D* * mm	*E/R* * mm	Rev letter
SLAB	**01**	**B 12**	**1**	**32**	**32**	**1350**	**21**	**600**	**180**	*600*			**P1**
	02	**B 12**	**1**	**12**	**12**	**1375**	**21**	**600**	**210**	*600*			**P1**
	03	**B 12**	**1**	**32**	**32**	**2900**	**00**	**2900**					**P1**
	04	**B 12**	**1**	**12**	**12**	**900**	**00**	**900**					**P1**

This schedule complies with Eurocode 2 & BS 8666:2005

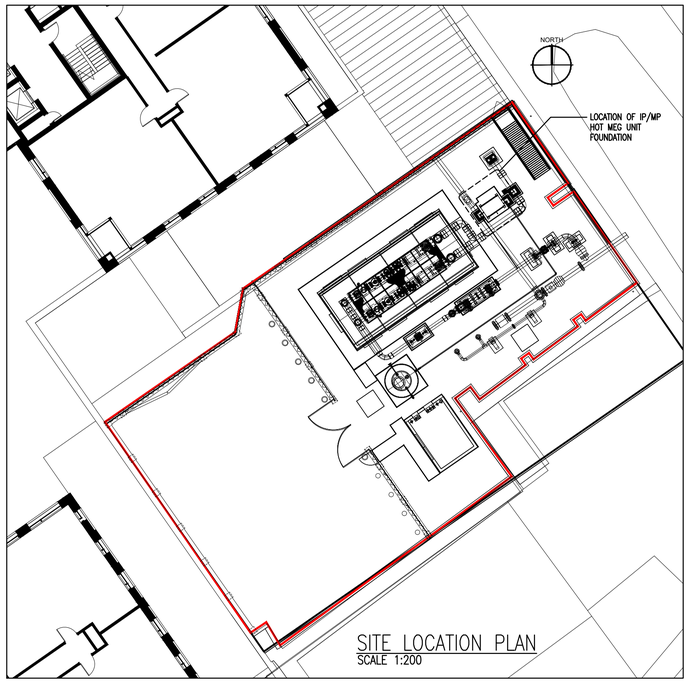
* Specified in multiples of 5 mm. † Specified in multiples of 25 mm.



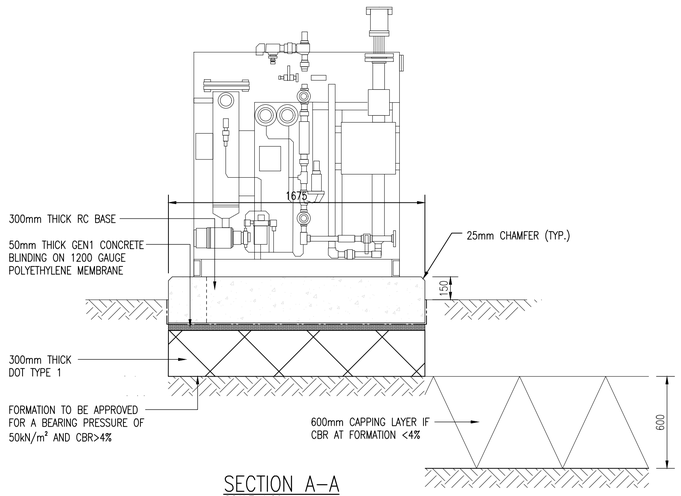
PLAN ON HOT MEG FOUNDATION
SCALE 1:20

HOT MEG FOUNDATION SETTING OUT POINTS		
REFERENCE	EASTING	NORTHING
SOP01	384767515	399243220
SOP02	384767720	399243362
SOP03	384767578	399243568
SOP04	384768751	399244379
SOP05	384769746	399242940
SOP06	384768367	399241987

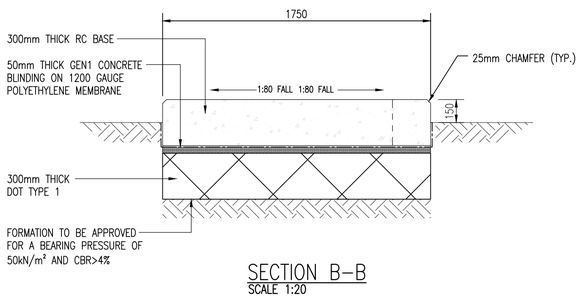
FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS



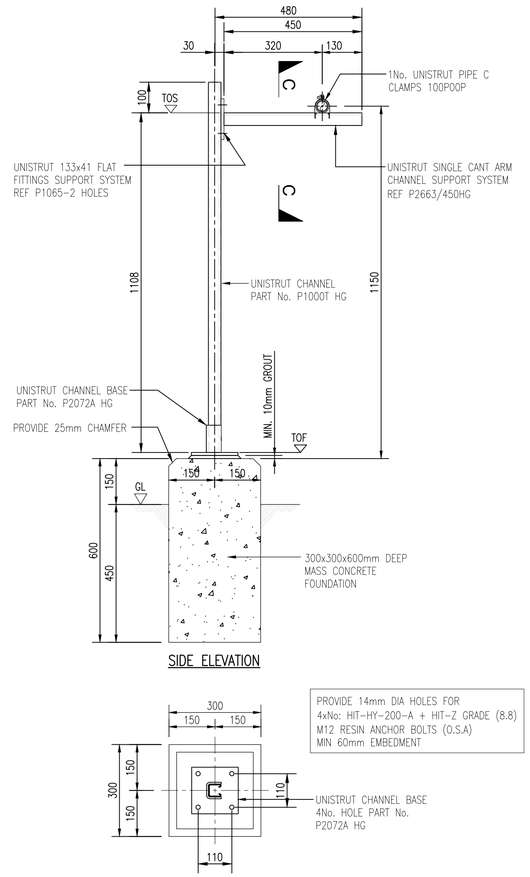
SITE LOCATION PLAN
SCALE 1:200



SECTION A-A
SCALE 1:20



SECTION B-B
SCALE 1:20



SIDE ELEVATION

BASEPLATE PLAN

DETAIL 1- GAS OUTLET PIPE STEELWORK SUPPORT
SCALE 1:10

GAS OUTLET SUPPORT FOUNDATION SETTING OUT POINTS		
REFERENCE	EASTING	NORTHING
SOP01	384769251	399244060
SOP02	384769497	399244229
SOP03	384769668	399243983
SOP04	384769421	399243812

FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS

1. GENERAL NOTES

1.1. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HEALTH & SAFETY AT WORK ACT 1974 AND THE CONSTRUCTION [DESIGN & MANAGEMENT] REGULATIONS 2015.

1.2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS AND THE PROJECT SPECIFICATION, AND WE HIGHLIGHT THE REFERENCE DRAWINGS LISTED.

1.3. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH NATIONAL GRID TECHNICAL SPECIFICATION GD/SP/CE/1.

1.4. NOTIFY SUPERVISING OFFICER OF ANY VARIATION BETWEEN INFORMATION CONTAINED ON THIS DRAWING AND NATIONAL GRID SPECIFICATION AND OBTAIN WRITTEN APPROVAL BEFORE PROCEEDING.

1.5. DIMENSIONS SHOULD NOT BE SCALED FROM DRAWINGS.

1.6. ALL LEVELS ARE IN METERS AND UNLESS NOTED OTHERWISE ARE STRUCTURAL LEVELS RELATED TO ORDNANCE DATUM.

1.7. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS NOTED OTHERWISE).

1.8. NO HOLES, CHASES, CUT-OUTS ETC MAY BE FORMED IN ANY STRUCTURAL MEMBER UNLESS PRIOR WRITTEN PERMISSION IS OBTAINED FROM THE DESIGNER.

1.9. ALL EXCAVATIONS ARE TO BE KEPT DRY AND FREE OF GROUND WATER DURING THE CONSTRUCTION OF THESE WORKS. DESIGN OF TEMPORARY WORKS FOR SAFE EXCAVATION IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR.

1.10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT ON THE PROJECT.

1.11. ALL CONCRETE TO HAVE BRUSHED FINISH WITH A MEDIUM STRENGTH BRISTLE AT RIGHT ANGLES TO THE MAIN TRAVEL PATH WITH THE GROOVES AT NOMINAL DEPTH OF 1mm.

2. EXCAVATIONS

2.1. ALL MADE GROUND SHALL BE EXCAVATED AND REMOVED, AND REPLACED BY GRANULAR FILL TO A SUITABLE FORMATION LEVEL. THE FORMATION SHOULD BE PROOF ROLLED BEFORE RECEIVING THE GRANULAR FILL (400mm MIN TO BE REMOVED).

2.2. SOFT OR UNSUITABLE GROUND BELOW FORMATION LEVEL SHALL BE EXCAVATED AND FILLED WITH GRANULAR FILL, PLACED AND COMPACTED IN LAYERS.

2.3. UNSUITABLE GROUND INCLUDES: ORGANIC MATERIAL (FIBROUS, SPONGY OR SOFT DARK MATERIAL), SOFT CLAYS (COHESIVE MATERIAL THAT CAN BE MOULDED BY LIGHT FINGER PRESSURE).

2.4. A MINIMUM BEARING CAPACITY OF 50kN/m² IS REQUIRED AT FOUNDATION FORMATION LEVEL.

2.5. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 225mm.

2.6. ANY LARGE VOIDS SHOULD BE REPORTED TO THE ENGINEER FOR INVESTIGATION.

3. HEALTH & SAFETY NOTES

3.1. THE SUPPLY OF EXISTING INFORMATION BY WSP DOES NOT IMPLY ACCEPTANCE OR ACCURACY OF THIS INFORMATION AND THE PRINCIPAL CONTRACTOR MUST CONFIRM THESE DETAILS [BY CAT SCAN OR OTHER MEANS] BEFORE PROGRESSING ANY OF THE WORKS.

3.2. NATIONAL GRID SPECIFICATION GD/SP/SSW/22 SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE. CONTRACTOR TO FOLLOW THE GUIDANCE GIVEN IN HSG47 WHEN CARRYING OUT EXCAVATION WORK IN ORDER TO MINIMISE THE RISK OF CONTACT WITH BURIED SERVICES.

3.3. NO WORK SHALL BE CARRIED WITHOUT PRESENCE OF CADENT SAFE CONTROL OF THE OPERATION REPRESENTATIVE.

3.4. HSG47 AVOIDING DANGER FROM UNDERGROUND SERVICES SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE.

3.5. RISK ASSESSMENT AND METHOD STATEMENT TO BE SUBMITTED TO CADENT FOR APPROVAL PRIOR TO CONSTRUCTION.

3.6. KEY TO HEALTH AND SAFETY SYMBOLS:

INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.

INDICATES A RESIDUAL RISK FOR INFORMATION.

INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.

INDICATES A RESIDUAL RISK AS A WARNING.

DO NOT SCALE

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 - IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0002 - IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0003 - IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0003- IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0005 - IP/MP METERING STATION FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0005 - IP/MP METERING STATION FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0007 - IP/MP HOT MEG UNIT FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0007 - IP/MP HOT MEG UNIT FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0008 - IP/MP EC&I KIOSK FOUNDATION LAYOUT
70085522-WSP-02-XX-SH-CV-0009 - IP/MP EC&I KIOSK FOUNDATION RC SECTION & DETAILS
70085522-WSP-02-XX-SH-CV-0009 - IP/MP EC&I KIOSK FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0010 - IP/MP INLET ISOLATION VALVE PIPE SUPPORT LAYOUT
70085522-WSP-02-XX-DG-CV-0011 - IP/MP INLET ISOLATION VALVE PIPE SUPPORT RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0011- IP/MP INLET ISOLATION VALVE PIPE SUPPORT BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0012 - IP/MP PAVING PLAN & EXTERNAL WORKS DETAILS
70085522-WSP-02-XX-DG-CV-0013_P01 - FENCING LAYOUT & DETAILS SHEET 1 OF 2
70085522-WSP-02-XX-DG-CV-0014_P01 - FENCING LAYOUT & DETAILS SHEET 2 OF 2
70085522-WSP-02-XX-DG-CV-0015 - GLYCOL STORAGE & VALVE PIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0016 - GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 - DRAW PIT & CABLE DUCTS DETAILS & GA

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P02	12/08/2022	MP	DETAILS UPDATED AS PER G17 COMMENTS - MEG ENCLOSURE SHOWN ON PLAN	RD	PK
P01	30/06/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

wsp
Manchester First Street, Manchester, M15 4RP, UK
T+ 44 (0) 161 200 5000, F+ 44 (0) 161 200 5001
wsp.com

CLIENT: Cadent Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - IP/MP HOT MEG UNIT FOUNDATION LAYOUT

SCALE @ A1:	CHECKED:	APPROVED:
1:100	R DAWSON	P KENYON

PROJECT No:	DESIGNED:	DRAWN:	DATE:
70085522	M POTTER	J LOMAS	DECEMBER 2022

DRAWING No: 70085522-WSP-02-XX-DG-CV-0006 REV: P03

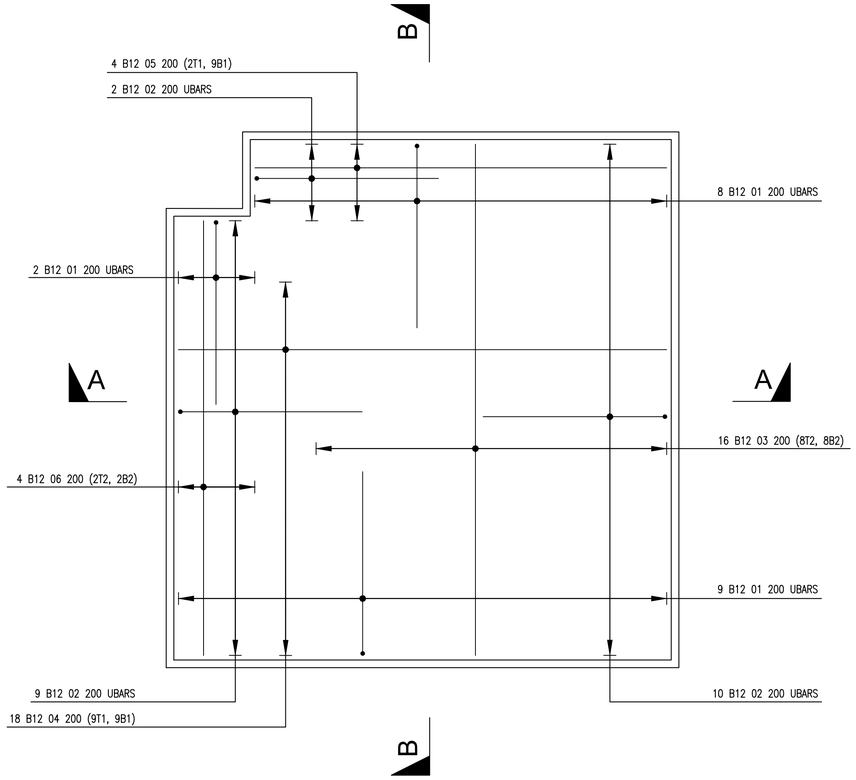
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SCALE 1:10

0 1 2 m
SCALE 1:20

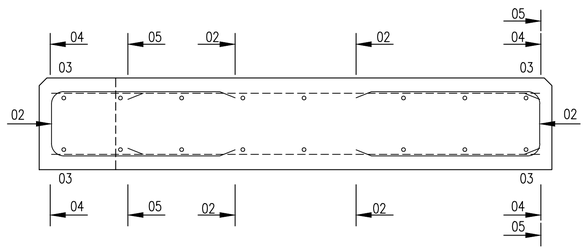
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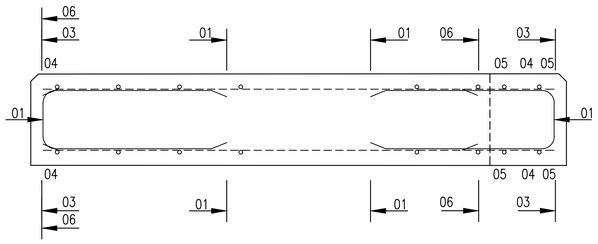
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HOT MEG FOUNDATION PLAN
SCALE 1:10



SECTION A–A
SCALE 1:10



SECTION B–B
SCALE 1:10

FOR GENERAL NOTES AND HEALTH AND SAFETY NOTES REFER TO DRAWING 70085522-WSP-02-XX-DG-CV-0001

1. CONCRETE GENERAL:

1.1. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH CADENT TECHNICAL SPECIFICATION GD/SP/CE/1.

1.2. CONCRETE SPECIFICATION SHALL BE AS FOLLOWS:

CONCRETE SPECIFICATION TO BS 8500-2		
	LOADING AT MIN 7-DAY STRENGTH	
	DESIGNATED CONCRETE	STRENGTH CLASS
BASE SLAB	RC50XF	C40/50
BLINDING	GEN 1	
CONCRETE FILL	GEN 1 (SLUMP CLASS S4)	

1.3. STRUCTURAL CONCRETE SHALL BE DC-4 FOR ACEC CLASS AC-4 AND DESIGN SULPHATE CLASS DS-4.

1.4. CONCRETE BLINDING SURFACE FINISH (WITHOUT POLYETHYLENE SHEET COVER) SHALL HAVE TAMPED FINISH IN COMPLIANCE CADENT GD/SP/CE/1: CLAUSE 4.2.6.4.

1.5. STRUCTURAL CONCRETE SURFACES SUBJECTED TO PEDESTRIAN TRAFFIC SHALL HAVE BRUSHED FINISH IN COMPLIANCE WITH CADENT GD/SP/CE/1: CLAUSE 4.2.14.1.

2. REINFORCED CONCRETE

2.1. MAIN CONTRACTOR IS TO SUBMIT TO THE CADENT SUPERVISING OFFICER FOR APPROVAL 10 DAYS PRIOR TO COMMENCEMENT OF WORK DETAILS OF PROPOSED DAY/CONTRUCTION JOINTS UNLESS AGREED OTHERWISE

2.2. NOMINAL COVER TO ALL REINFORCEMENT TO BE 40mm UNLESS SHOWN OTHERWISE ON DRAWING.

2.3. ALL EXPOSED ARISES SHALL HAVE 25mm CHAMFERS.

2.4. THE PRINCIPAL CONTRACTOR IS TO PROVIDE ALL NECESSARY CHAIRS AND SPACERS TO MAINTAIN CONCRETE COVER AND CORRECT PLACEMENT OF THE REINFORCEMENT.

2.5. THE CONTRACTOR IS RESPONSIBLE FOR THE DETAILING OF ANY CHAIRS WHICH ARE REQUIRED.

2.6. CONSTRUCTION METHOD STATEMENT TO BE SUBMITTED FOR COMMENT 10 DAYS PRIOR TO COMMENCEMENT OF THE WORK.

2.7. REINFORCEMENT NOTATION USED:

No – BAR MARK – LOCATION – DESCRIPTION
10 – B12 – 01 – 300 – B2 – UBARS
TYPE / DIA – CENTRES

2.8. STEEL TYPE:
B = GRADE B500B OR B500C TO BS 4449:2005

2.9. BAR LOCATION ABBREVIATIONS USED
SLAB:–
T1 – TOP OUTER LAYER
T2 – TOP INNER LAYER
B2 – BOTTOM INNER LAYER
B1 – BOTTOM OUTER LAYER

2.10. MINIMUM LAPS TO BE :
B12 = 440mm
B12 = 570mm
B16 = 830mm
B20 = 1100mm
B25 = 1420mm
UNLESS NOTED OTHERWISE

2.11. BAR REINFORCEMENT TO BE TO BS4449:2005 & REBAR CUTTING AND BENDING TO BS8666:2005

2.12. FABRIC REINFORCEMENT TO BE TO BS4483:2005

2.13. SEE 70085522-WSP-02-XX-SH-CV-0007 FOR BAR BENDING SCHEDULE

2.14. WHERE STARTER BARS AND CONTINUITY BARS PROJECT FROM THE CONCRETE, THERE IS A RISK OF INJURY. THE REINFORCEMENT HAS BEEN DETAILED ASSUMING THAT THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO MITIGATE THIS RISK.

0 250 500mm
SCALE 1:5

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 – IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0002 – IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0003 – IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0003– IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0004 – IP/MP METERING STATION FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0005 – IP/MP METERING STATION FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0005 – IP/MP METERING STATION FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0006 – IP/MP HOT MEG UNIT FOUNDATION LAYOUT
70085522-WSP-02-XX-SH-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0008 – IP/MP EC&I KIOSK FOUNDATION LAYOUT
70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0010 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT LAYOUT
70085522-WSP-02-XX-DG-CV-0011 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0011– IP/MP INLET ISOLATION VALVE PIPE SUPPORT BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0012 – IP/MP PAVING PLAN & EXTERNAL WORKS DETAILS
70085522-WSP-02-XX-DG-CV-0013_P01 – FENCING LAYOUT & DETAILS SHEET 1 OF 2
70085522-WSP-02-XX-DG-CV-0014_P01 – FENCING LAYOUT & DETAILS SHEET 2 OF 2
70085522-WSP-02-XX-DG-CV-0015_P01 – GLYCOL STORAGE FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 – DRAW PIT & CABLE DUCTS DETAILS & GA

REV	DATE	BY	DESCRIPTION	CHK	APP
P02	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P01	30/06/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

wsp
Manchester First Street, Manchester, M15 4RP, UK
T+ 44 (0) 161 200 5000, F+ 44 (0) 161 200 5001
wsp.com

CLIENT: Cadent – Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - IP/MP HOT MEG UNIT R.C. SECTIONS & DETAILS

SCALE @ A1:	CHECKED:		APPROVED:
1:100	R DAWSON		P KENYON
PROJECT No: 70085522	DESIGNED: M POTTER	DRAWN: J LOMAS	DATE: DECEMBER 2022

DRAWING No: 70085522-WSP-02-XX-DG-CV-0007 REV: P02

© WSP UK Ltd

Project	Bilbrook Street - IP/MP			Status	
				PRELIMINARY	
Date	30-Jun-22	Job no	Drawing no	Schedule no	Rev
By	NS	70085522	WSP-02-XX-DG-CV-0007	SH 07	P01
Checked	AA				

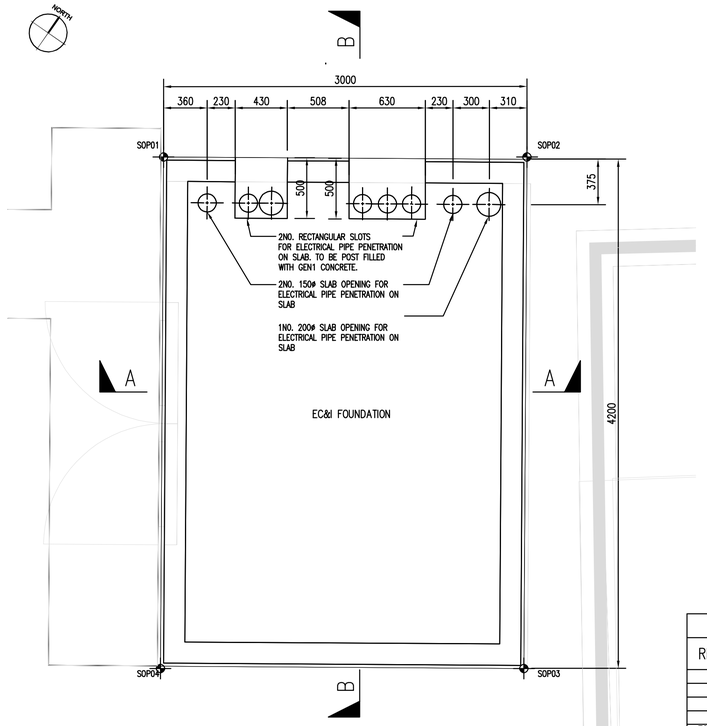
Rev	Date	Details	Tel	+44 (0) 161 200 5000
P01	30-Jun-22	FIRST ISSUE	Fax	+44 (0) 161 200 5001

Part: Hot MEG Unit Foundation

Member	Bar mark	Type and size	No of mbrs	No of bars in each	Total no of bars	Length of each bar mm †	Shape code	*A* * mm	*B* * mm	*C* * mm	*D* * mm	*E/R* * mm	Rev letter
SLAB	**01**	**B 12**	**1**	**19**	**19**	**1350**	**21**	**600**	**180**	*600*			
	02	**B 12**	**1**	**21**	**21**	**1375**	**21**	**600**	**210**	*600*			
	03	**B 12**	**1**	**16**	**16**	**1675**	**00**	**1670**					
	04	**B 12**	**1**	**18**	**18**	**1600**	**00**	**1595**					
	05	**B 12**	**1**	**4**	**4**	**1350**	**00**	**1345**					
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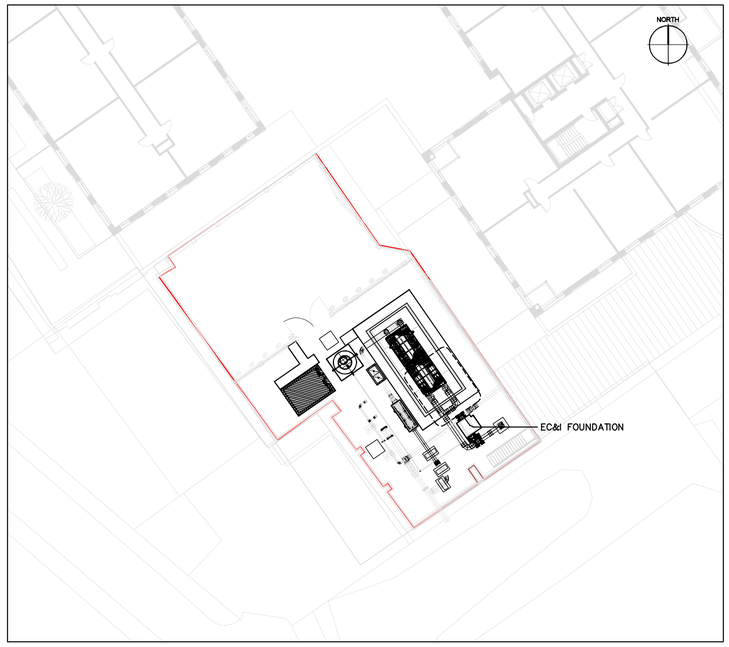
This schedule complies with Eurocode 2 & BS 8666:2005

* Specified in multiples of 5 mm. † Specified in multiples of 25 mm.

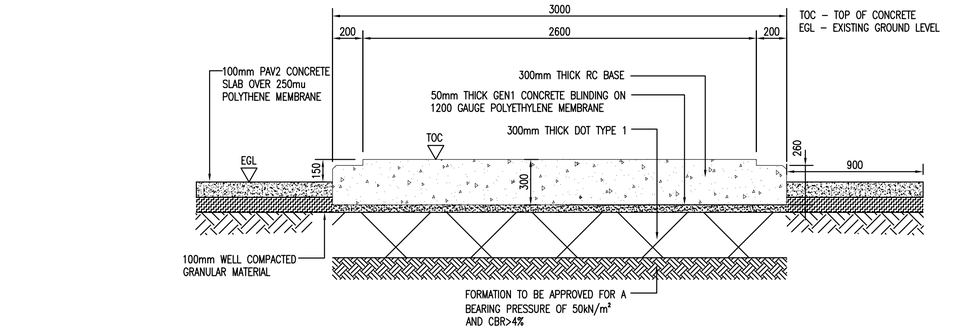


GA PLAN ON EC&I KIOSK FOUNDATION
SCALE 1:25

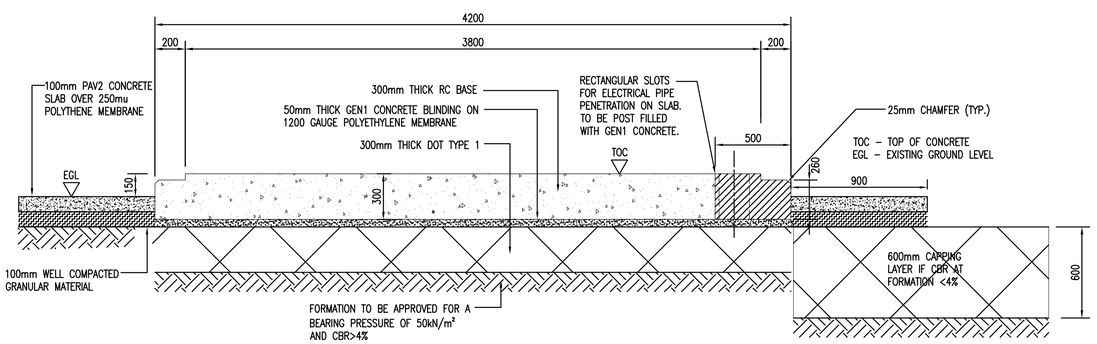
SETTING OUT POINTS		
REFERENCE	EASTING	NORTHING
SOP01	384762855	399229102
SOP02	384765323	399230807
SOP03	384767711	399227352
SOP04	384765243	399225647
FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS		



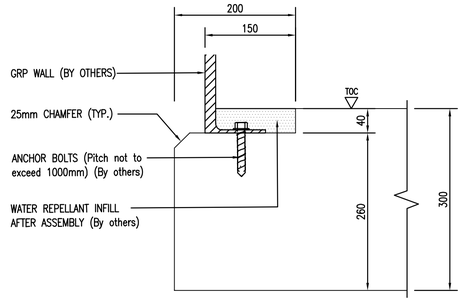
SITE LOCATION PLAN
SCALE 1:200



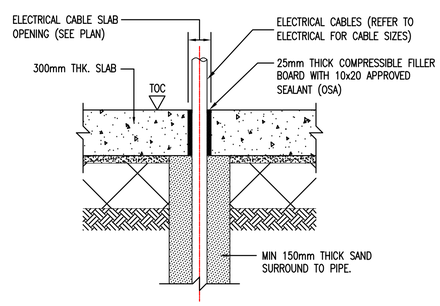
SECTION A–A
SCALE 1:20



SECTION B–B
SCALE 1:20



TYPICAL EDGE DETAIL
SCALE 1:5



TYPICAL CABLE SLAB PENETRATION DETAIL
SCALE 1:20

1. GENERAL NOTES

1.1. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HEALTH & SAFETY AT WORK ACT 1974 AND THE CONSTRUCTION [DESIGN & MANAGEMENT] REGULATIONS 2015.

1.2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS AND THE PROJECT SPECIFICATION, AND WE HIGHLIGHT THE REFERENCE DRAWINGS LISTED.

1.3. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH NATIONAL GRID TECHNICAL SPECIFICATION GD/SP/CE/1.

1.4. NOTIFY SUPERVISING OFFICER OF ANY VARIATION BETWEEN INFORMATION CONTAINED ON THIS DRAWING AND NATIONAL GRID SPECIFICATION AND OBTAIN WRITTEN APPROVAL BEFORE PROCEEDING.

1.5. DIMENSIONS SHOULD NOT BE SCALED FROM DRAWINGS.

1.6. ALL LEVELS ARE IN METERS AND UNLESS NOTED OTHERWISE ARE STRUCTURAL LEVELS RELATED TO ORDNANCE DATUM.

1.7. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS NOTED OTHERWISE).

1.8. NO HOLES, CHASES, CUT-OUTS ETC MAY BE FORMED IN ANY STRUCTURAL MEMBER UNLESS PRIOR WRITTEN PERMISSION IS OBTAINED FROM THE DESIGNER.

1.9. ALL EXCAVATIONS ARE TO BE KEPT DRY AND FREE OF GROUND WATER DURING THE CONSTRUCTION OF THESE WORKS. DESIGN OF TEMPORARY WORKS FOR SAFE EXCAVATION IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR.

1.10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT ON THE PROJECT.

2. EXCAVATIONS

2.1. ALL MADE GROUND SHALL BE EXCAVATED AND REMOVED, AND REPLACED BY GRANULAR FILL TO A SUITABLE FORMATION LEVEL. THE FORMATION SHOULD BE PROOF ROLLED BEFORE RECEIVING THE GRANULAR FILL (400mm MIN TO BE REMOVED).

2.2. SOFT OR UNSUITABLE GROUND BELOW FORMATION LEVEL SHALL BE EXCAVATED AND FILLED WITH GRANULAR FILL, PLACED AND COMPACTED IN LAYERS.

2.3. UNSUITABLE GROUND INCLUDES: ORGANIC MATERIAL (FIBROUS, SPONGY OR SOFT DARK MATERIAL), SOFT CLAYS (COHESIVE MATERIAL THAT CAN BE MOULDED BY LIGHT FINGER PRESSURE).

2.4. A MINIMUM BEARING CAPACITY OF 50kN/m² IS REQUIRED AT FOUNDATION FORMATION LEVEL.

2.5. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 225mm.

2.6. ANY LARGE VOIDS SHOULD BE REPORTED TO THE ENGINEER FOR INVESTIGATION.

3. HEALTH & SAFETY NOTES

3.1. THE SUPPLY OF EXISTING INFORMATION BY WSP DOES NOT IMPLY ACCEPTANCE OR ACCURACY OF THIS INFORMATION AND THE PRINCIPAL CONTRACTOR MUST CONFIRM THESE DETAILS [BY CAT SCAN OR OTHER MEANS] BEFORE PROGRESSING ANY OF THE WORKS.

3.2. NATIONAL GRID SPECIFICATION GD/SP/SSW/22 SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE. CONTRACTOR TO FOLLOW THE GUIDANCE GIVEN IN HSG47 WHEN CARRYING OUT EXCAVATION WORK IN ORDER TO MINIMISE THE RISK OF CONTACT WITH BURIED SERVICES.

3.3. NO WORK SHALL BE CARRIED WITHOUT PRESENCE OF CADENT SAFE CONTROL OF THE OPERATION REPRESENTATIVE.

3.4. HSG47 AVOIDING DANGER FROM UNDERGROUND SERVICES SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE.

3.5. RISK ASSESSMENT AND METHOD STATEMENT TO BE SUBMITTED TO CADENT FOR APPROVAL PRIOR TO CONSTRUCTION.

3.6. KEY TO HEALTH AND SAFETY SYMBOLS:

- INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.
- INDICATES A RESIDUAL RISK FOR INFORMATION.
- INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.
- INDICATES A RESIDUAL RISK AS A WARNING.

DO NOT SCALE

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 – IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0002 – IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0003 – IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0003– IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0004 – IP/MP METERING STATION FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0005 – IP/MP METERING STATION FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0005 – IP/MP METERING STATION FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0006 – IP/MP HOT MEG UNIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION RC SECTIONS & DETAILS
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70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION RC SECTION & DETAILS
70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0010 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT LAYOUT
70085522-WSP-02-XX-DG-CV-0011 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0011– IP/MP INLET ISOLATION VALVE PIPE SUPPORT BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0012 – IP/MP PAVING PLAN & EXTERNAL WORKS DETAILS
70085522-WSP-02-XX-DG-CV-0013_P01 – FENCING LAYOUT & DETAILS SHEET 1 OF 2
70085522-WSP-02-XX-DG-CV-0014_P01 – FENCING LAYOUT & DETAILS SHEET 2 OF 2
70085522-WSP-02-XX-DG-CV-0015 – GLYCOL STORAGE & VALVE PIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 – DRAW PIT & CABLE DUCTS DETAILS & GA

REV	DATE	BY	DESCRIPTION	CHK	APP
P02	12/08/2022	MP	DETAILS UPDATED AS PER G17 COMMENTS – RECTANGULAR SLOTS & FOOTPATH DETAIL	RD	PK
P01	30/06/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

wsp
Manchester First Street, Manchester, M15 4RP, UK
T+ 44 (0) 161 200 5000, F+ 44 (0) 161 200 5001
wsp.com

CLIENT: Cadent – Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - IP/MP EC&I KIOSK FOUNDATION LAYOUT

SCALE @ A1:	CHECKED:	APPROVED:
1:100	R DAWSON	P KENYON

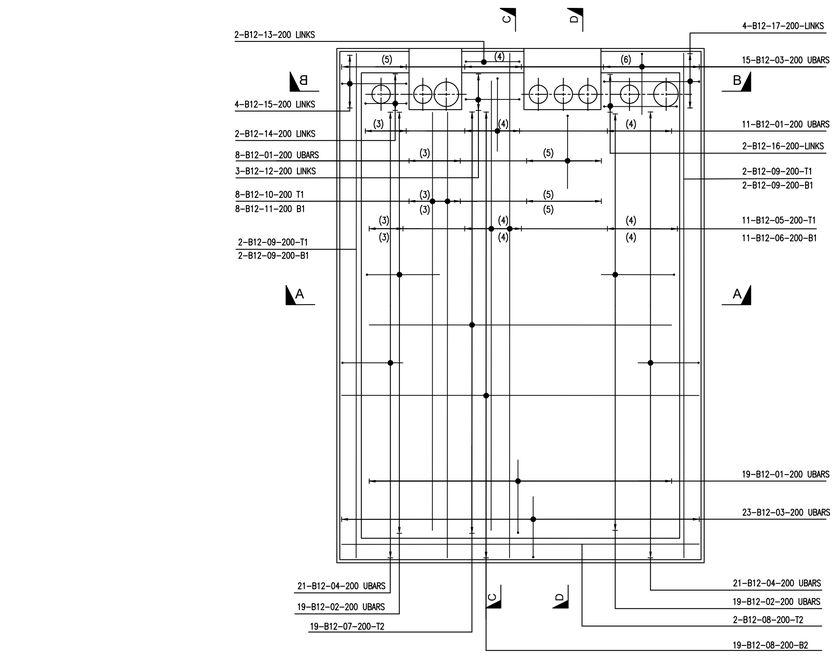
PROJECT No:	DESIGNED:	DRAWN:	DATE:
70067897	B HALL	N SOGUE	AUGUST 2022

DRAWING No: 70067897-WSP-02-XX-DG-CV-0008 REV: P02

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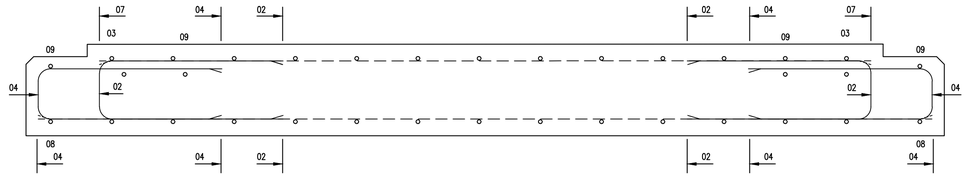
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0 250 500mm — SCALE 1:5
0 1 2 2.5 m — SCALE 1:25
0 12.5 25 m — SCALE 1:250

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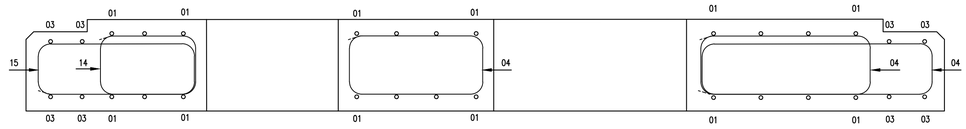


PLAN ON HOT MEG FOUNDATION
SCALE 1:25

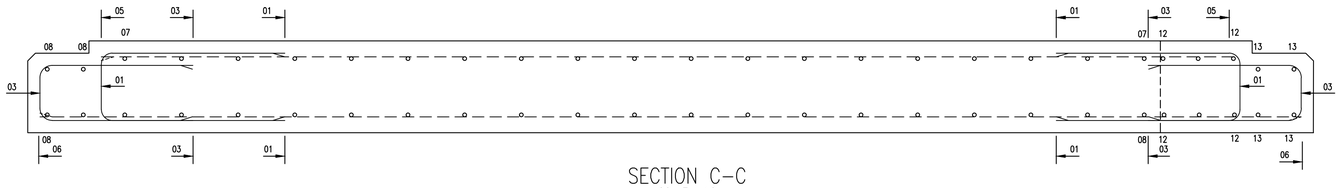
NOTE: RE-POSITION BARS AS REQUIRED AT SLAB OPENING



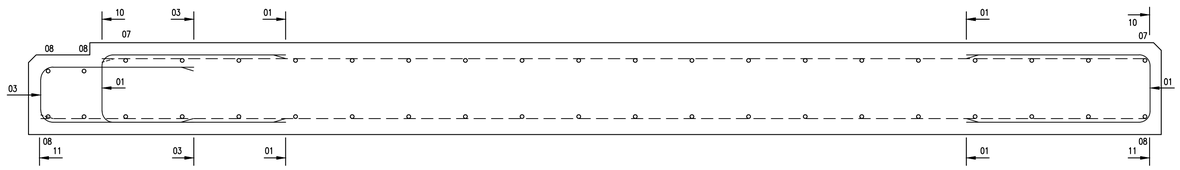
SECTION A-A
SCALE 1:10



SECTION B-B
SCALE 1:10



SECTION C-C
SCALE 1:10



SECTION D-D
SCALE 1:10

FOR GENERAL NOTES AND HEALTH AND SAFETY NOTES REFER TO DRAWING 70085522-WSP-02-XX-DG-CV-0001

1. CONCRETE GENERAL:

1.1. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH CADENT TECHNICAL SPECIFICATION GD/SP/CE/1.

1.2. CONCRETE SPECIFICATION SHALL BE AS FOLLOWS:

CONCRETE SPECIFICATION TO BS 8500-2		
	LOADING AT MIN 7-DAY STRENGTH	
	DESIGNATED CONCRETE	STRENGTH CLASS
BASE SLAB	RC50XF	C40/50
BLINDING	GEN 1	
CONCRETE FILL	GEN 1 (SLUMP CLASS S4)	

1.3. STRUCTURAL CONCRETE SHALL BE DC-4 FOR ACEC CLASS AC-4 AND DESIGN SULPHATE CLASS DS-4.

1.4. CONCRETE BLINDING SURFACE FINISH (WITHOUT POLYETHYLENE SHEET COVER) SHALL HAVE TAMPED FINISH IN COMPLIANCE CADENT GD/SP/CE/1: CLAUSE 4.2.6.4.

1.5. STRUCTURAL CONCRETE SURFACES SUBJECTED TO PEDESTRIAN TRAFFIC SHALL HAVE BRUSHED FINISH IN COMPLIANCE WITH CADENT GD/SP/CE/1: CLAUSE 4.2.14.1.

2. REINFORCED CONCRETE

2.1. MAIN CONTRACTOR IS TO SUBMIT TO THE CADENT SUPERVISING OFFICER FOR APPROVAL 10 DAYS PRIOR TO COMMENCEMENT OF WORK DETAILS OF PROPOSED DAY/CONTRUCTION JOINTS UNLESS AGREED OTHERWISE

2.2. NOMINAL COVER TO ALL REINFORCEMENT TO BE 40mm UNLESS SHOWN OTHERWISE ON DRAWING.

2.3. ALL EXPOSED ARISES SHALL HAVE 25mm CHAMFERS.

2.4. THE PRINCIPAL CONTRACTOR IS TO PROVIDE ALL NECESSARY CHAIRS AND SPACERS TO MAINTAIN CONCRETE COVER AND CORRECT PLACEMENT OF THE REINFORCEMENT.

2.5. THE CONTRACTOR IS RESPONSIBLE FOR THE DETAILING OF ANY CHAIRS WHICH ARE REQUIRED.

2.6. CONSTRUCTION METHOD STATEMENT TO BE SUBMITTED FOR COMMENT 10 DAYS PRIOR TO COMMENCEMENT OF THE WORK.

2.7. REINFORCEMENT NOTATION USED:

No – BAR MARK – LOCATION – DESCRIPTION
10 – B12 – 01 – 300 – B2 – UBARS
TYPE / DIA – CENTRES

2.8. STEEL TYPE:
B = GRADE B500B OR B500C TO BS 4449:2005

2.9. BAR LOCATION ABBREVIATIONS USED
SLAB:-
T1 – TOP OUTER LAYER
T2 – TOP INNER LAYER
B2 – BOTTOM INNER LAYER
B1 – BOTTOM OUTER LAYER

2.10. MINIMUM LAPS TO BE :
B12 = 440mm
B12 = 570mm
B16 = 830mm
B20 = 1100mm
B25 = 1420mm
UNLESS NOTED OTHERWISE

2.11. BAR REINFORCEMENT TO BE TO BS4449:2005 & REBAR CUTTING AND BENDING TO BS8666:2005

2.12. FABRIC REINFORCEMENT TO BE TO BS4483:2005

2.13. SEE 70085522-WSP-02-XX-SH-CV-0009-P01 FOR BAR BENDING SCHEDULE

2.14. WHERE STARTER BARS AND CONTINUITY BARS PROJECT FROM THE CONCRETE, THERE IS A RISK OF INJURY. THE REINFORCEMENT HAS BEEN DETAILED ASSUMING THAT THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO MITIGATE THIS RISK.

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 – IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0002 – IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0003 – IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
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70085522-WSP-02-XX-DG-CV-0013_P01 – FENCING LAYOUT & DETAILS SHEET 1 OF 2
70085522-WSP-02-XX-DG-CV-0014_P01 – FENCING LAYOUT & DETAILS SHEET 2 OF 2
70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 – DRAW PIT & CABLE DUCTS DETAILS & GA

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P02	12/08/2022	MP	DETAILS UPDATED AS PER G17 COMMENTS – ALTERED REBAR DIAGRAM WITH NEW SLOTS	RD	PK
P01	30/06/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

wsp
Manchester First Street, Manchester, M15 4RP, UK
T+ 44 (0) 161 200 5000, F+ 44 (0) 161 200 5001
wsp.com

CLIENT: Cadent – Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - EC&I KIOSK R.C. SECTIONS & DETAILS

SCALE @ A1:	CHECKED:	APPROVED:
1:100	R DAWSON	P KENYON

PROJECT No:	DESIGNED:	DRAWN:	DATE:
70085522	M POTTER	J LOMAS	DECEMBER 2022

DRAWING No: 70085522-WSP-02-XX-DG-CV-0009 REV: P03

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0 1 2 2.5 m
SCALE 1:25

0 0.5 1 m
SCALE 1:10

Project	Bilbrook Street - IP/MP			Status	PRELIMINARY
Date 24-Aug-22 By MP Checked AA		Job no **70085522**	Drawing no **WSP-02-XX-DG-CV-0009**	Schedule no **SH 01**	Rev **P02**

Rev	Date	Details
P01	30-Jun-22	FIRST ISSUE

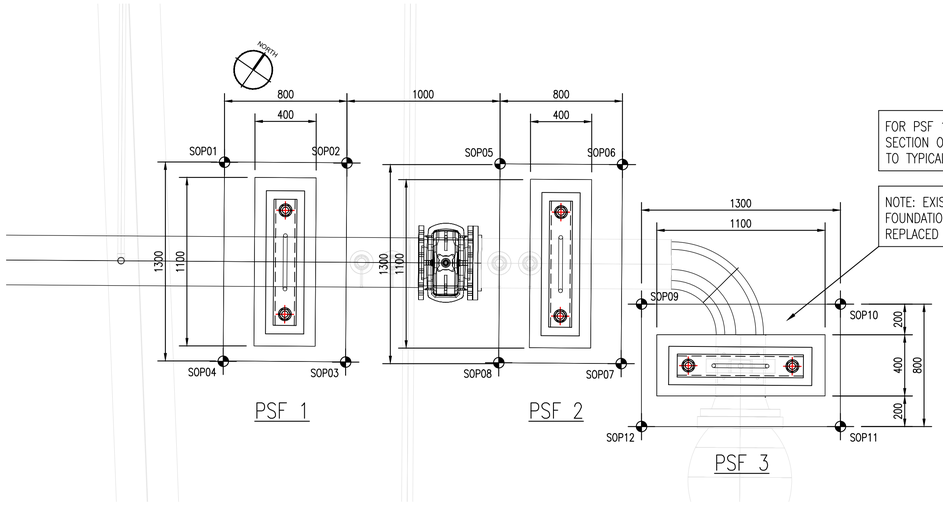
Tel +44 (0) 161 200 5000
Fax +44 (0) 161 200 5001

Part: EC&I Kiosk Foundation

Member	Bar mark	Type and size	No of mbrs	No of bars in each	Total no of bars	Length of each bar mm †	Shape code	*A* * mm	*B* * mm	*C* * mm	*D* * mm	*E/R* * mm	Rev letter
SLAB	**01**	**B 12**	**1**	**38**	**38**	**1375**	**21**	**600**	**210**	*600*			
	02	**B 12**	**1**	**38**	**38**	**1350**	**21**	**600**	**180**	*600*			
	03	**B 12**	**1**	**38**	**38**	**1125**	**21**	**500**	**170**	*500*			
	04	**B 12**	**1**	**42**	**42**	**1100**	**21**	**500**	**140**	*500*			
	05	**B 12**	**1**	**11**	**11**	**3675**	**00**	**3670**					
	06	**B 12**	**1**	**11**	**11**	**4125**	**00**	**4120**					
	07	**B 12**	**1**	**19**	**19**	**2475**	**00**	**2470**					
	08	**B 12**	**1**	**21**	**21**	**2925**	**00**	**2920**					
	09	**B 12**	**1**	**8**	**8**	**4125**	**00**	**4120**					
	10	**B 12**	**1**	**8**	**8**	**3400**	**00**	**3400**					
	11	**B 12**	**1**	**8**	**8**	**3600**	**00**	**3600**					
	12	**B 12**	**1**	**3**	**3**	**1300**	**51**	**400**	**140**	*160*			
	13	**B 12**	**1**	**2**	**2**	**1375**	**51**	**400**	**180**	*160*			
	14	**B 12**	**1**	**4**	**4**	**1500**	**51**	**500**	**140**	*160*			
	15	**B 12**	**1**	**2**	**2**	**1225**	**51**	**300**	**180**	*160*			
	16	**B 12**	**1**	**4**	**4**	**2000**	**51**	**750**	**140**	*160*			
	17	**B 12**	**1**	**2**	**2**	**1675**	**51**	**550**	**180**	*160*			

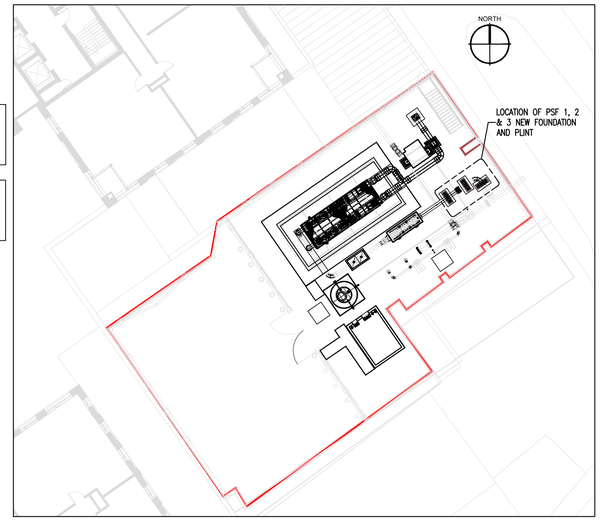
This schedule complies with Eurocode 2 & BS 8666:2005

* Specified in multiples of 5 mm. † Specified in multiples of 25 mm.



PLAN OF PIPE SUPPORT FOUNDATION (PSF) 1, 2 & 3

SCALE 1:20



SITE LOCATION PLAN

SCALE 1:200

PSF 1 – SETTING OUT POINTS		
REFERENCE	EASTING	NORTHING
SOP01	384770460	399239926
SOP02	384771118	399240380
SOP03	384771857	399239311
SOP04	384771198	399238856

FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS

PSF 2 – SETTING OUT POINTS		
REFERENCE	EASTING	NORTHING
SOP05	384771941	399240949
SOP06	384772599	399241403
SOP07	384773338	399240333
SOP08	384772680	399239879

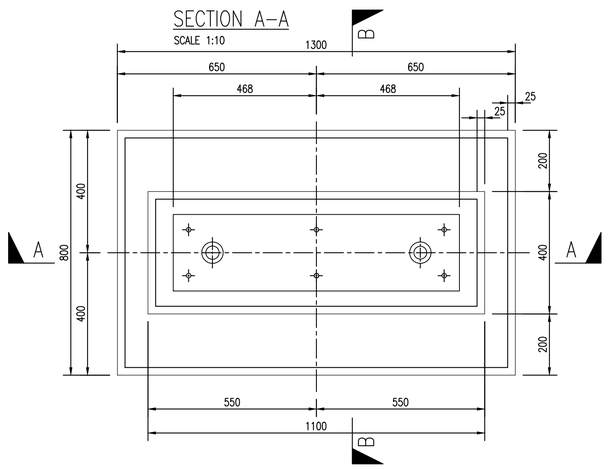
FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS

PSF 3 – SETTING OUT POINTS		
REFERENCE	EASTING	NORTHING
SOP09	384773224	399240728
SOP10	384774289	399241474
SOP11	384774748	399240818
SOP12	384773683	399240072

FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS

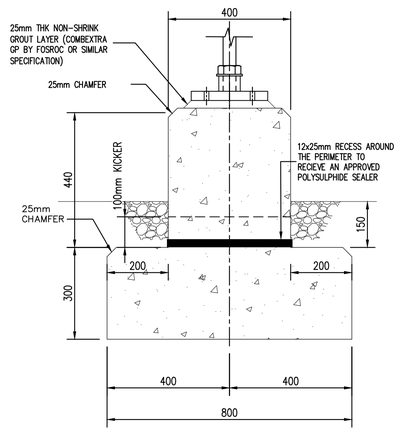
SECTION A-A

SCALE 1:10



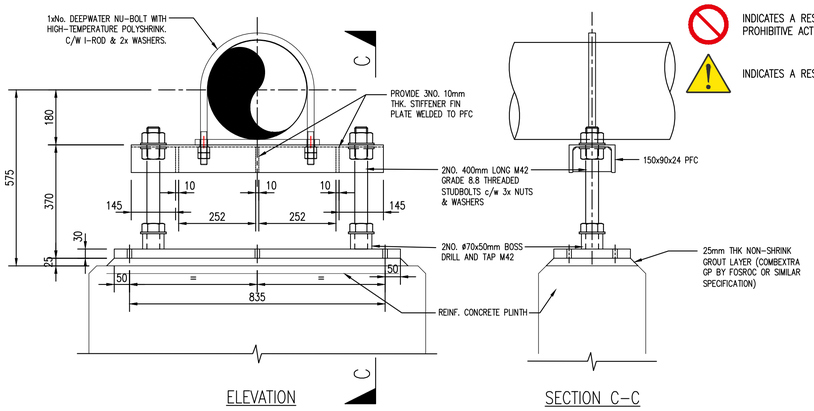
DETAIL A – PIPE SUPPORT FOUNDATION PLAN (PSF1, 2 & 3)

SCALE 1:10



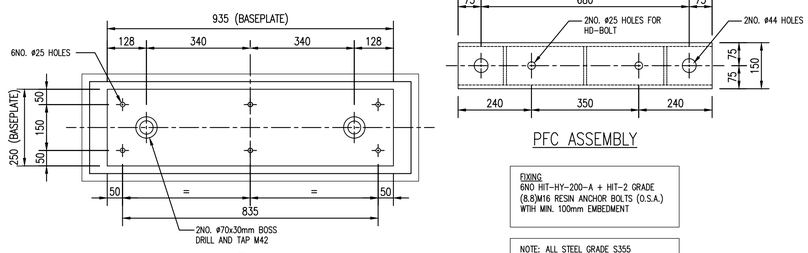
SECTION B-B

SCALE 1:10



ELEVATION

SECTION C-C



PLAN

PFC ASSEMBLY

FIXING
6NO HIT-HY-200-A + HIT-Z GRADE (8.8)M16 RESIN ANCHOR BOLTS (O.S.A.) WITH MIN. 100mm EMBEDMENT

NOTE: ALL STEEL GRADE S355

DETAIL B – BASE PLATE AND PIPE SUPPORT (TYP. HD BOLT DETAIL)

SCALE 1:10

FOR GENERAL NOTES AND HEALTH AND SAFETY NOTES REFER TO DRAWING 70085522-WSP-02-XX-CV-0001

1. CONCRETE GENERAL:

1.1. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH CADENT TECHNICAL SPECIFICATION GD/SP/CE/1.

1.2. CONCRETE SPECIFICATION SHALL BE AS FOLLOWS:

CONCRETE SPECIFICATION TO BS 8500-2		
	LOADING AT MIN 7-DAY STRENGTH	
	DESIGNATED CONCRETE	STRENGTH CLASS
PIPE SUPPORT FOUNDATION	RC50XF	C40/50

1.3. STRUCTURAL CONCRETE SHALL BE DC-4 FOR ACEC CLASS AC-4 AND DESIGN SULPHATE CLASS DS-4.

1.4. CONCRETE BLINDING (MINIMUM 50mm) SURFACE FINISH (WITHOUT POLYETHYLENE SHEET COVER) SHALL HAVE TAMPED FINISH IN COMPLIANCE CADENT GD/SP/CE/1: CLAUSE 4.2.6.4.

2. PIPE SUPPORTS:

2.1. 2 No. PIPE SUPPORTS REQUIRED WITH HEIGHT OF 831mm.

2.2. PIPE SUPPORTS ARE TO BE OF THE SAME DIMENSIONS.

2.3. SUPPORTS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS

3. PROPRIETARY PRODUCTS:

3.1. ALL PROPRIETARY PRODUCTS SPECIFIED ON THIS DRAWING OR IN RELEVANT SECTIONS OF THE PROJECT SPECIFICATION ARE TO BE USED IN FULL COMPLIANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

3.2. ALTERNATIVE PRODUCTS MAY BE CONSIDERED PROVIDED THAT THEY ARE OF EQUIVALENT STANDARD.

4. COMPOUND FINISHES:

4.1. STONE CHIPPING FINISHES, GRANITE OR IGNEOUS ROCK AS SHOWN ON THE DRAWING. STONED AREAS SHALL BE 20MM SINGLE SIZED GRAVEL 100MM DEEP LAID ON SEPARATION GEOTEXTILE TERRAM T1000 OR SIMILAR APPROVED ON SUB-SOIL OR FILL. SEDIMENTARY TYPE ROCK, SUCH AS LIMESTONE OR CHALK, IS NOT ACCEPTABLE AS A SUBSTITUTE.

INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.

INDICATES A RESIDUAL RISK FOR INFORMATION.

INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.

INDICATES A RESIDUAL RISK AS A WARNING.

REFERENCE DRAWINGS:

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70085522-WSP-02-XX-DG-CV-0013 – IP/MP FENCING LAYOUT & DETAILS
70085522-WSP-02-XX-DG-CV-0014 – CABLE DUCTING LAYOUT & DETAILS
70085522-WSP-02-XX-DG-CV-0015 – GLYCOL STORAGE & VALVE PIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS

LEGEND:

GL : GROUND LEVEL

PSF : PIPE SUPPORT FOUNDATION

SOP : SETTING OUT POINTS

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P02	12/08/2022	MP	DETAILS UPDATED AS PER G17 COMMENTS – UPDATED TYPO ON CONCRETE BASE DIMENSION	RD	PK
P01	04/07/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

wsp
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CLIENT: Cadent – Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - ISOLATION VALVE PIPE SUPPORT FOUNDATION LAYOUT

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	R DAWSON	P KENYON

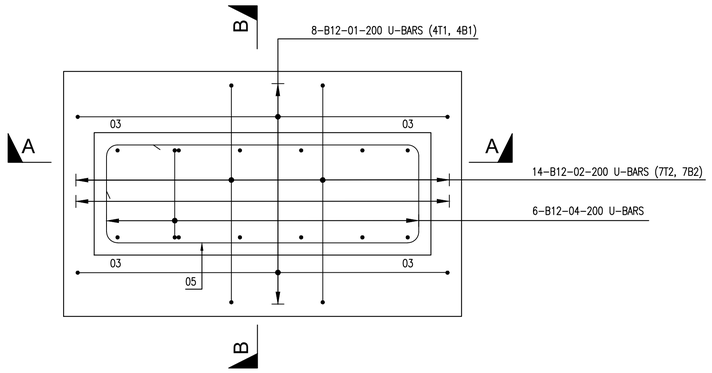
PROJECT No:	DESIGNED:	DRAWN:	DATE:
70085522	M POTTER	J LOMAS	DECEMBER 2022

DRAWING No: 70085522-WSP-02-XX-DG-CV-0010 REV: P03

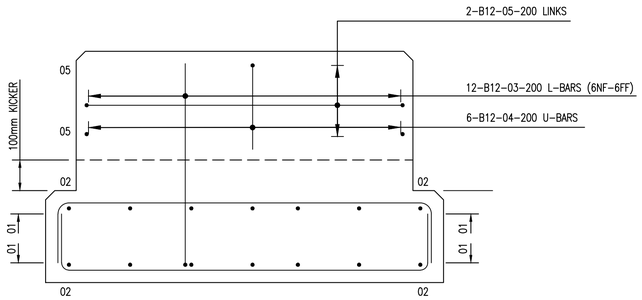
© WSP UK Ltd

0 10 20 m SCALE 1:200
0 0.5 1 m SCALE 1:10
0 1 2 m SCALE 1:20

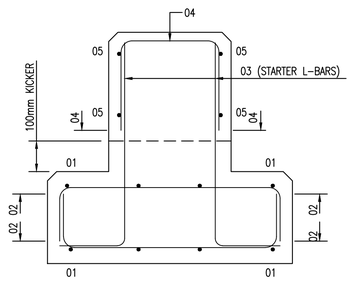
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FOUNDATION PLAN
SCALE 1:10



SECTION A-A
SCALE 1:10



SECTION B-B
SCALE 1:10

REINFORCEMENT DETAIL FOR PIPE SUPPORT FOUNDATION (TYPICAL TO PSF 1, 2 & 3)
SCALE 1:20

FOR GENERAL NOTES AND HEALTH AND SAFETY NOTES REFER TO DRAWING 70085522-WSP-02-XX-DG-CV-0001

1. CONCRETE GENERAL:

1.1. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH CADENT TECHNICAL SPECIFICATION GD/SP/CE/1.

1.2. CONCRETE SPECIFICATION SHALL BE AS FOLLOWS:

CONCRETE SPECIFICATION TO BS 8500-2		
	LOADING AT MIN 7-DAY STRENGTH	
	DESIGNATED CONCRETE	STRENGTH CLASS
BASE SLAB	RC50XF	C40/50
BLINDING	GEN 1	
CONCRETE FILL	GEN 1 (SLUMP CLASS S4)	

1.3. STRUCTURAL CONCRETE SHALL BE DC-4 FOR ACEC CLASS AC-4 AND DESIGN SULPHATE CLASS DS-4.

1.4. CONCRETE BLINDING SURFACE FINISH (WITHOUT POLYETHYLENE SHEET COVER) SHALL HAVE TAMPED FINISH IN COMPLIANCE CADENT GD/SP/CE/1: CLAUSE 4.2.6.4.

1.5. STRUCTURAL CONCRETE SURFACES SUBJECTED TO PEDESTRIAN TRAFFIC SHALL HAVE BRUSHED FINISH IN COMPLIANCE WITH CADENT GD/SP/CE/1: CLAUSE 4.2.14.1.

2. REINFORCED CONCRETE

2.1. MAIN CONTRACTOR IS TO SUBMIT TO THE CADENT SUPERVISING OFFICER FOR APPROVAL 10 DAYS PRIOR TO COMMENCEMENT OF WORK DETAILS OF PROPOSED DAY/CONSTRUCTION JOINTS UNLESS AGREED OTHERWISE

2.2. NOMINAL COVER TO ALL REINFORCEMENT TO BE 40mm UNLESS SHOWN OTHERWISE ON DRAWING.

2.3. ALL EXPOSED ARISES SHALL HAVE 25mm CHAMFERS.

2.4. THE PRINCIPAL CONTRACTOR IS TO PROVIDE ALL NECESSARY CHAIRS AND SPACERS TO MAINTAIN CONCRETE COVER AND CORRECT PLACEMENT OF THE REINFORCEMENT.

2.5. THE CONTRACTOR IS RESPONSIBLE FOR THE DETAILING OF ANY CHAIRS WHICH ARE REQUIRED.

2.6. CONSTRUCTION METHOD STATEMENT TO BE SUBMITTED FOR COMMENT 10 DAYS PRIOR TO COMMENCEMENT OF THE WORK.

2.7. REINFORCEMENT NOTATION USED:

No — BAR MARK — LOCATION — DESCRIPTION
10 - B12 - 01 - 300 - B2 - UBARS
TYPE / DIA — CENTRES

2.8. STEEL TYPE:
B = GRADE B500B OR B500C TO BS 4449:2005

2.9. BAR LOCATION ABBREVIATIONS USED
SLAB:-
T1 - TOP OUTER LAYER
T2 - TOP INNER LAYER
B2 - BOTTOM INNER LAYER
B1 - BOTTOM OUTER LAYER

2.10. MINIMUM LAPS TO BE :
B10 = 440mm
B12 = 570mm
B16 = 830mm
B20 = 1100mm
B25 = 1420mm
UNLESS NOTED OTHERWISE

2.11. BAR REINFORCEMENT TO BE TO BS4449:2005 & REBAR CUTTING AND BENDING TO BS8666:2005

2.12. FABRIC REINFORCEMENT TO BE TO BS4483:2005

2.13. SEE 70085522-WSP-02-XX-DG-CV-0005_BS01 FOR BAR BENDING SCHEDULE

2.14. WHERE STARTER BARS AND CONTINUITY BARS PROJECT FROM THE CONCRETE, THERE IS A RISK OF INJURY. THE REINFORCEMENT HAS BEEN DETAILED ASSUMING THAT THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO MITIGATE THIS RISK.

DO NOT SCALE

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 – IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0002 – IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0003 – IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0003- IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0004 – IP/MP METERING STATION FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0005 – IP/MP METERING STATION FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0005 – IP/MP METERING STATION FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0006 – IP/MP HOT MEG UNIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0008 – IP/MP EC&I KIOSK FOUNDATION LAYOUT
70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION RC SECTION & DETAILS
70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0010 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT LAYOUT
70085522-WSP-02-XX-DG-CV-0011 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT RC SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0012 – IP/MP PAVING PLAN & EXTERNAL WORKS DETAILS
70085522-WSP-02-XX-DG-CV-0013 – IP/MP FENCING LAYOUT & DETAILS
70085522-WSP-02-XX-DG-CV-0014 – CABLE DUCTING LAYOUT & DETAILS
70085522-WSP-02-XX-DG-CV-0015 – GLYCOL STORAGE & VALVE PIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 – DRAW PIT & CABLE DUCTS DETAILS & GA

0 1 2 m
SCALE 1:20

0 0.5 1 m
SCALE 1:10

REV.	DATE	BY	DESCRIPTION	CHK	APP
P02	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P01	04/07/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

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wsp.com

CLIENT: Cadent Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - ISOLATION VALVE PIPE SUPPORT R.C. FOUNDATION SECTION & DETAILS

SCALE @ A1:	CHECKED:	APPROVED:
1:10	R DAWSON	P KENYON
PROJECT No: 70085522	DESIGNED: M POTTER / DRAWN: J LOMAS	DATE: DECEMBER 2022
DRAWING No: 70085522-WSP-02-XX-DG-CV-0011		REV: P02

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File name \\UK.WSPGROUP.COM\CENTRAL DATA\PROJECTS\70085XXX\70085522 - CADENT - GOULD STREET DETAILED DESIGN\03 WIP\CIV CIVIL\03 DRAWINGS\70085522-WSP-02-XX-DG-CV-0011_P01 - ISOLATION VALVE PIPE SUPPORT FOUNDATION RC SECTIONS & DETAILS.DWG

Project	Bilbrook Street - IP/MP			Status	
				PRELIMINARY	
Date	04-Jul-22	Job no	Drawing no	Schedule no	Rev
By	NS	70085522	WSP-02-XX-DG-CV-0011	SH 01	P01
Checked	AA				

Rev	Date	Details
P01	04-Jul-22	FIRST ISSUE

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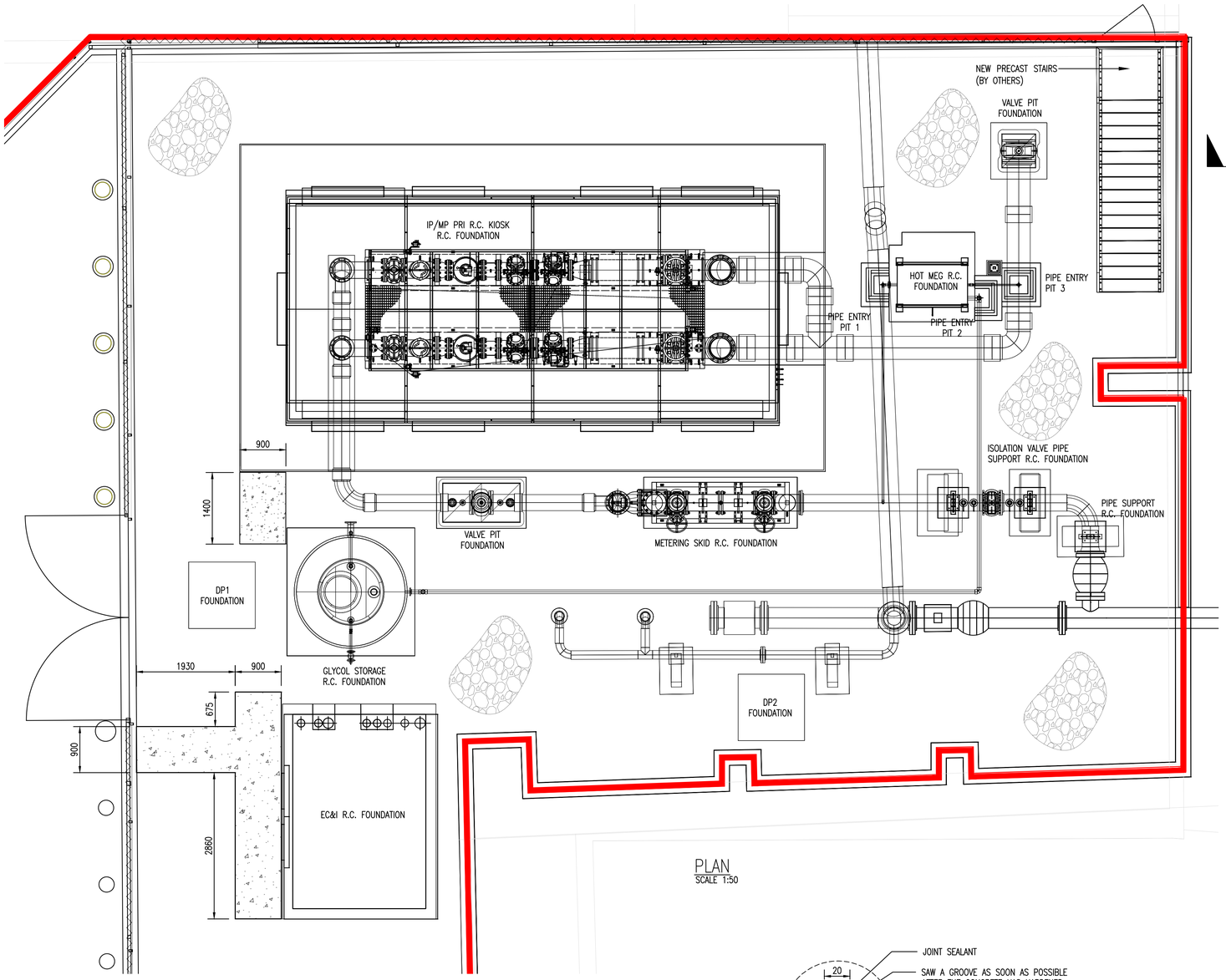
Part

Isolation Valve Pipe Support Foundation

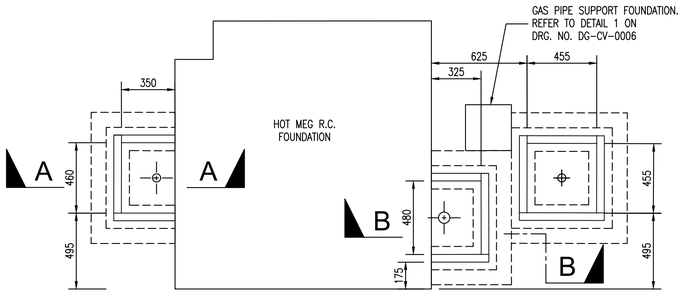
Member	Bar mark	Type and size	No of mbrs	No of bars in each	Total no of bars	Length of each bar mm †	Shape code	*A* * mm	*B* * mm	*C* * mm	*D* * mm	*E/R* * mm	Rev letter
PSF1, 2&3	**01**	**B 12**	**3**	**8**	**24**	**1575**	**21**	**195**	**1220**	*195*			
Foundation	**02**	**B 12**	**3**	**14**	**42**	**1025**	**21**	**175**	**720**	*175*			
	03	**B 12**	**3**	**12**	**36**	**875**	**11**	**210**	*675*				
	04	**B 12**	**3**	**6**	**18**	**825**	**21**	**280**	**295**	*280*			
	05	**B 12**	**3**	**2**	**6**	**2925**	**51**	**320**	**1020**	*175*	*175*		

This schedule complies with Eurocode 2 & BS 8666:2005

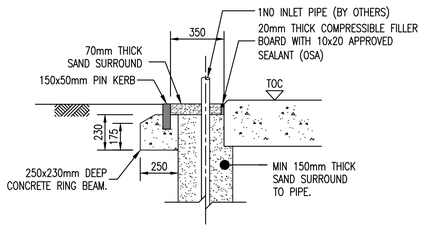
* Specified in multiples of 5 mm. † Specified in multiples of 25 mm.



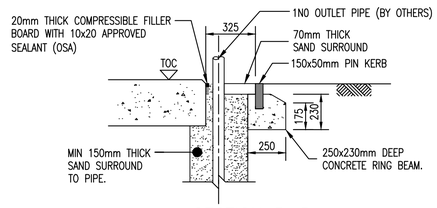
PLAN
SCALE 1:50



PLAN OF PIPE ENTRY PIT 1, 2 AND 3
SCALE 1:20



SECTION A–A
SCALE 1:20



SECTION B–B
SCALE 1:20

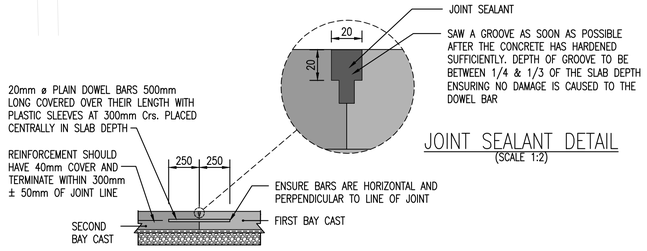
DO NOT SCALE

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 – IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0002 – IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0003 – IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0003– IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0004 – IP/MP METERING STATION FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0005 – IP/MP METERING STATION FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0005 – IP/MP METERING STATION FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0006 – IP/MP HOT MEG UNIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0008 – IP/MP EC&I KIOSK FOUNDATION LAYOUT
70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION RC SECTION & DETAILS
70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0010 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT LAYOUT
70085522-WSP-02-XX-DG-CV-0011 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0011– IP/MP INLET ISOLATION VALVE PIPE SUPPORT BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0013_P01 – FENCING LAYOUT & DETAILS SHEET 1 OF 2
70085522-WSP-02-XX-DG-CV-0014_P01 – FENCING LAYOUT & DETAILS SHEET 2 OF 2
70085522-WSP-02-XX-DG-CV-0015 – GLYCOL STORAGE & VALVE PIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 – DRAW PIT & CABLE DUCTS DETAILS & GA

LEGEND

- CADENT RED LINE DEMISE BOUNDARY
- 2.4m HIGH BLACK WELDMESH FENCE
- BOLLARDS
- REMOVABLE BOLLARDS
- FOOTPATHS
- HARD LANDSCAPING (STONE CHIPPING)

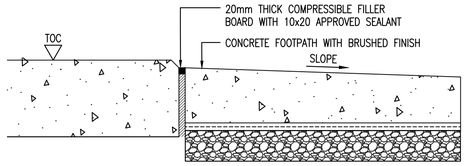


JOINT SEALANT DETAIL
(SCALE 1:2)

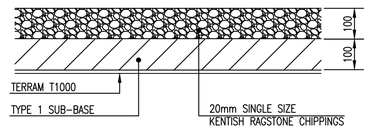
MINIMUM 150mm THICK IN-SITU CONCRETE FOOTPATH WITH 1 LAYER OF A393 MESH (TOP) ON POLYTHENE SHEETING SEPERATING MEMBRANE 125 MICRONS THICK (300 LAPS) ON TYPE 1 100mm SUB-BASE.

PROVIDE CONTRACTION/EXPANSION JOINTS IN FOOTPATH AT 4.5m MAXIMUM Crs. USING COMPRESSIBLE FILLER BOARD 20mm THICK FOR THE FULL DEPTH OF JOINT.

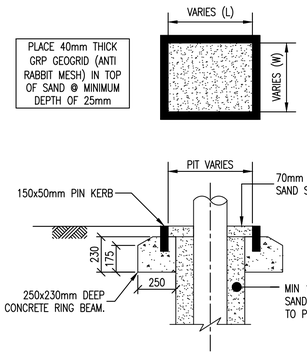
CONCRETE FOOTPATH TRANVERSE CONTRACTION JOINT DETAIL
SCALE 1:25



ISOLATION JOINT DETAIL
SCALE 1:10



HARD LANDSCAPING
SCALE 1:10



DETAIL 1
PIPE ENTRY PITS TYPICAL SECTION
SCALE 1:120

PRIOR TO THE CONSTRUCTION OF THE NEW ENTRY PITS, ALL PIPEWORK IS TO HAVE PIPE WIND/WATER LINES INSPECTED AND REPAIRED IF NECESSARY. ANY EXISTING COATING (WITH THE EXCEPTION OF FBE) IS TO BE GRIT BLASTED FOR A MINIMUM OF 500mm BOTH ABOVE AND BELOW GROUND LEVEL AND THE AREA COATED WITH A MULTI-COMPONENT LIQUID SYSTEM (MCL) ALL TO BE IN ACCORDANCE WITH T/SP/CW/5.

ABOVE GROUND PIPEWORK IS TO BE PAINTED IN ACCORDANCE WITH GD/SP/PA/10.

UPON COMPLETION OF WORKS PIPE ENTRIES ARE TO BE FILLED WITH SAND.

APPROX SIZES OF SAND PITS ARE PROVIDED IN THE TABLE ABOVE.

PIT REF	No Required	DIMS (L*W)mm
METERING SKID OUTLET	1	800x800
FORCING GAS	1	570x570
MEG UNIT – FORCING GAS INLET	1	570x570
MEG STORAGE – OUTLET	1	325x480
MEG UNIT – MEG INLET	1	350x460

TABLE 1: REQUIRED PIT SIZES
INSIDE DIMENSIONS.

SCALE 1:2 — 0, 100, 200mm
SCALE 1:10 — 0, 0.5, 1 m
SCALE 1:25 — 0, 1, 2, 2.5 m
SCALE 1:100 — 0, 5, 10 m

REV	DATE	BY	DESCRIPTION	CHK	APP
P02	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P01	30/06/2022	NS	PRELIMINARY ISSUE	MG	PK

DRAWING STATUS: S2 - FOR INFORMATION

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CLIENT: Cadent — Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - IP/MP PRI PAVING PLAN & EXTERNAL WORKS DETAILS

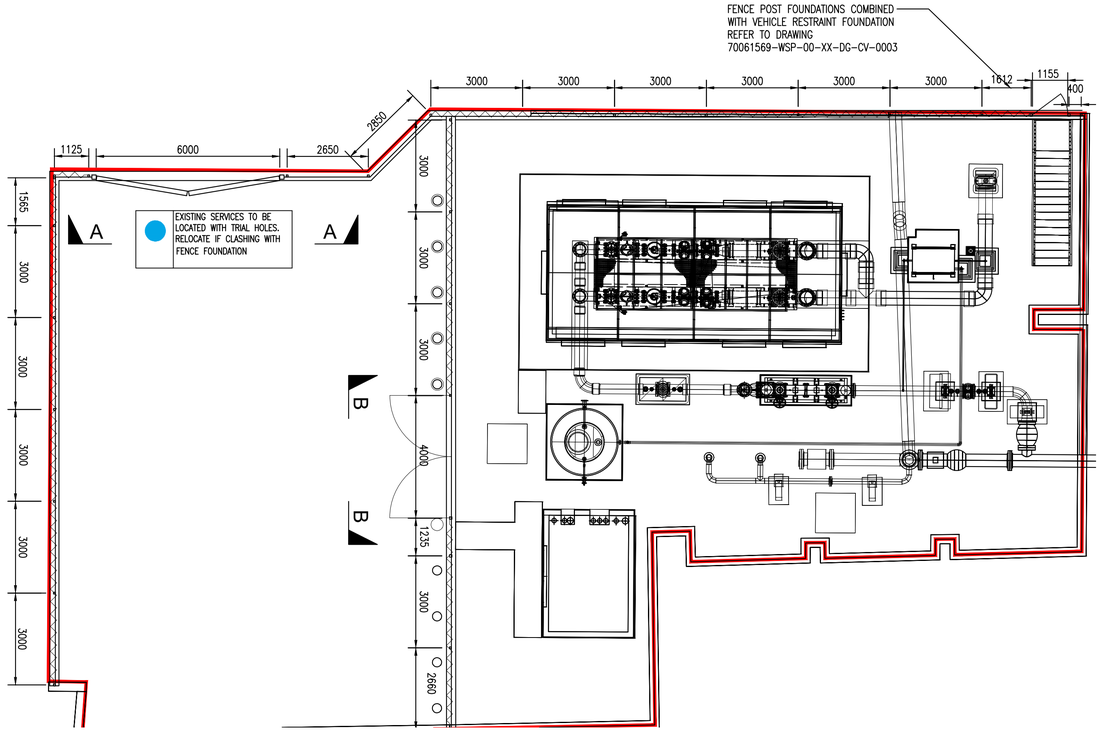
SCALE @ A1:	CHECKED:	APPROVED:
1:100	R DAWSON	P KENYON

PROJECT No:	DESIGNED:	DRAWN:	DATE:
70085522	M POTTER	J LOMAS	DECEMBER 2022

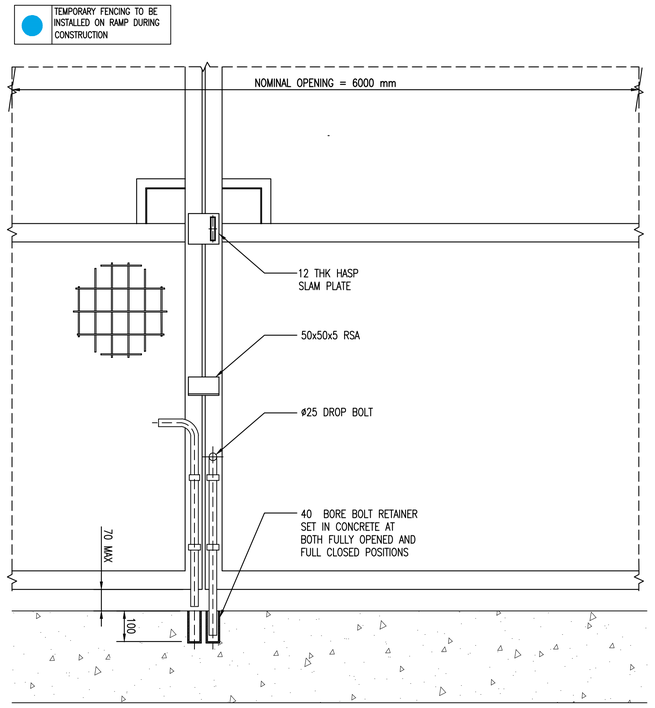
DRAWING No: 70085522-WSP-02-XX-DG-CV-0012 REV: P02

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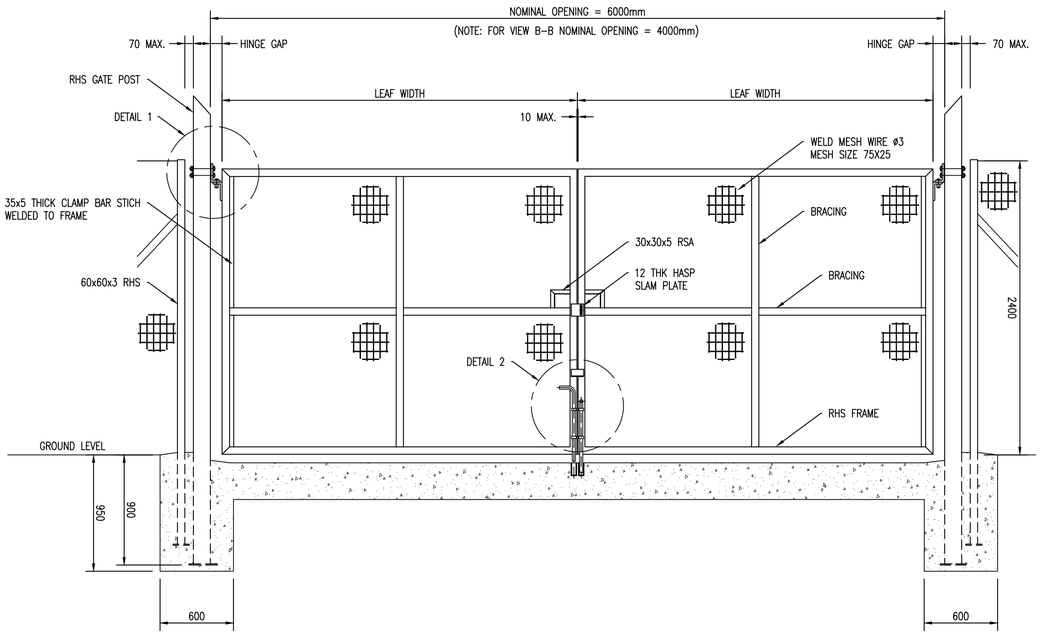
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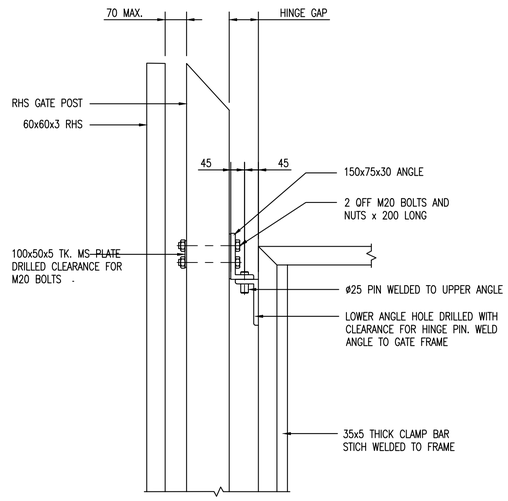
PLAN ON PRESSURE REDUCTION INSTALLATION
(SCALE 1:100)



DETAIL 2 – DETAIL OF DROP BOLT
(SCALE 1:10)



ELEVATION A – INTERNAL ELEVATION OF MAIN GATE
NOTE: TYPICAL ARRANGEMENT FOR ELEVATION A
(SCALE 1:25)



DETAIL 1 – UPPER HINGE DETAIL
(SCALE 1:10)

1. GENERAL NOTES

1.1. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HEALTH & SAFETY AT WORK ACT 1974 AND THE CONSTRUCTION [DESIGN & MANAGEMENT] REGULATIONS 2015.

1.2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS AND THE PROJECT SPECIFICATION, AND WE HIGHLIGHT THE REFERENCE DRAWINGS LISTED.

1.3. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH CADENT TECHNICAL SPECIFICATION GD/SP/CE/1.

1.4. FENCING SHALL BE IN ACCORDANCE WITH CADENT TECHNICAL SPECIFICATION GD/SP/CE/3.

1.5. NOTIFY SUPERVISING OFFICER OF ANY VARIATION BETWEEN INFORMATION CONTAINED ON THIS DRAWING AND NATIONAL GRID SPECIFICATION AND OBTAIN WRITTEN APPROVAL BEFORE PROCEEDING.

1.6. DIMENSIONS SHOULD NOT BE SCALED FROM DRAWINGS.

1.7. ALL LEVELS ARE IN METERS AND UNLESS NOTED OTHERWISE ARE STRUCTURAL LEVELS RELATED TO ORDNANCE DATUM.

1.8. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS NOTED OTHERWISE).

1.9. NO HOLES, CHASES, CUT-OUTS ETC MAY BE FORMED IN ANY STRUCTURAL MEMBER UNLESS PRIOR WRITTEN PERMISSION IS OBTAINED FROM THE DESIGNER.

1.10. ALL EXCAVATIONS ARE TO BE KEPT DRY AND FREE OF GROUND WATER DURING THE CONSTRUCTION OF THESE WORKS. DESIGN OF TEMPORARY WORKS FOR SAFE EXCAVATION IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR.

1.11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT ON THE PROJECT.

2. CONCRETE GENERAL:

2.1. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH NATIONAL GRID TECHNICAL SPECIFICATION GD/SP/CE/1.

2.2. CONCRETE SPECIFICATION SHALL BE AS FOLLOWS:

CONCRETE SPECIFICATION TO BS 8500-2		
	DESIGNATED CONCRETE	STRENGTH CLASS
POST FOUNDATION AND GROUND SILL	RC50XF	C40/50

2.3. STRUCTURAL CONCRETE SHALL BE DC-4 FOR ACEC CLASS AC-4 AND DESIGN SULPHATE CLASS DS-4.

3. HEALTH & SAFETY NOTES

3.1. THE SUPPLY OF EXISTING INFORMATION BY WSP DOES NOT IMPLY ACCEPTANCE OR ACCURACY OF THIS INFORMATION AND THE PRINCIPAL CONTRACTOR MUST CONFIRM THESE DETAILS [BY CAT SCAN OR OTHER MEANS] BEFORE PROGRESSING ANY OF THE WORKS.

3.2. CADENT SPECIFICATION GD/SP/SSW/22 SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE.

3.3. NO WORK SHALL BE CARRIED WITHOUT PRESENCE OF CADENT SAFE CONTROL OF THE OPERATION REPRESENTATIVE.

3.4. HSG47 AVOIDING DANGER FROM UNDERGROUND SERVICES SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE.

3.5. RISK ASSESSMENT AND METHOD STATEMENT TO BE SUBMITTED TO CADENT FOR APPROVAL PRIOR TO CONSTRUCTION.

3.6. KEY TO HEALTH AND SAFETY SYMBOLS:

INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.

INDICATES A RESIDUAL RISK FOR INFORMATION.

INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.

INDICATES A RESIDUAL RISK AS A WARNING.

0 0.5 1 m
SCALE 1:10

0 1 2 2.5 m
SCALE 1:25

0 5 10 m
SCALE 1:100

DO NOT SCALE

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 – IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0002 – IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0003 – IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0003- IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0005 – IP/MP METERING STATION FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0005 – IP/MP METERING STATION FOUNDATION BAR BENDING SCHEDULE
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70085522-WSP-02-XX-DG-CV-0012 – IP/MP PAVING PLAN & EXTERNAL WORKS DETAILS
70085522-WSP-02-XX-DG-CV-0013_P01 – FENCING LAYOUT & DETAILS SHEET 2 OF 2
70085522-WSP-02-XX-DG-CV-0014_P01 – FENCING LAYOUT & DETAILS SHEET 2 OF 2
70085522-WSP-02-XX-DG-CV-0015 – GLYCOL STORAGE & VALVE PIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 – DRAW PIT & CABLE DUCTS DETAILS & GA

LEGEND:

GL : EXISTING GROUND LEVEL

TOC : TOP OF CONCRETE

REV	DATE	BY	DESCRIPTION	CHK	APP
P02	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P01	30/06/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

wsp
Manchester First Street, Manchester, M15 4RP, UK
T+ 44 (0) 161 200 5000, F+ 44 (0) 161 200 5001
wsp.com

CLIENT: Cadent – Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - IP/MP FENCING LAYOUT & DETAILS SHEET 1 0F 2

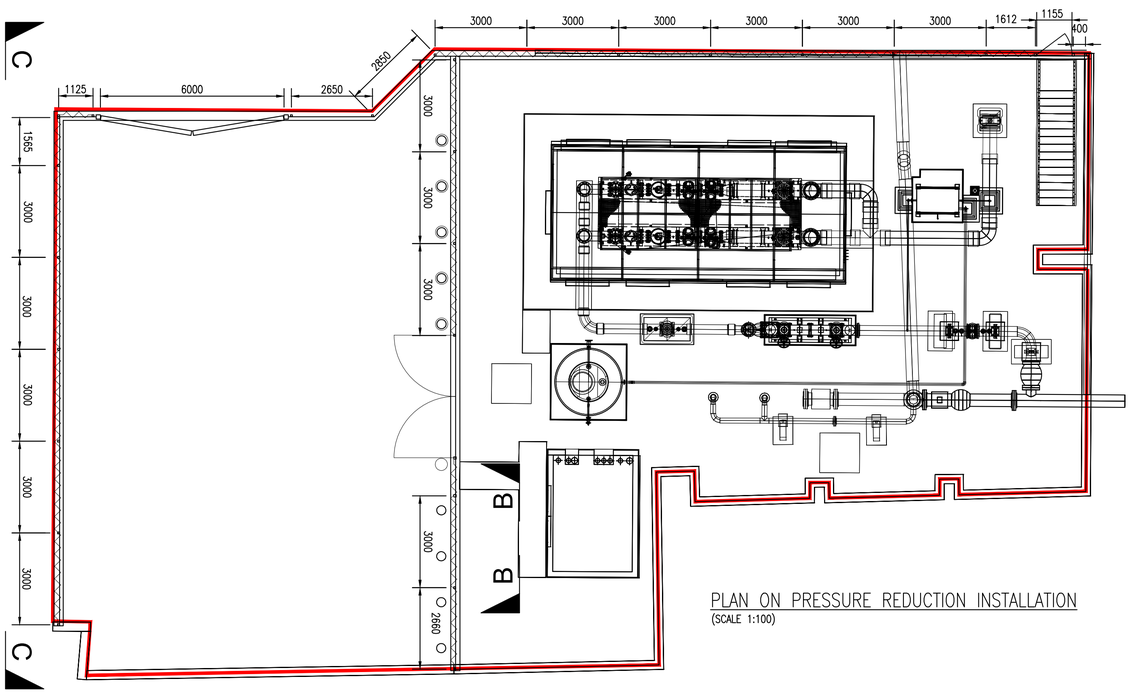
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PROJECT No:	DESIGNED:	DRAWN:	DATE:
70085522	M POTTER	J LOMAS	DECEMBER 2022

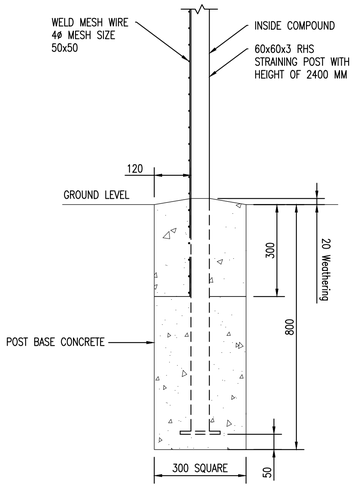
DRAWING No: 70085522-WSP-02-XX-DG-CV-0013 REV: P02

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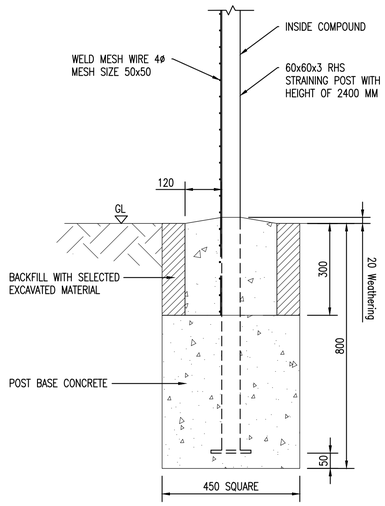
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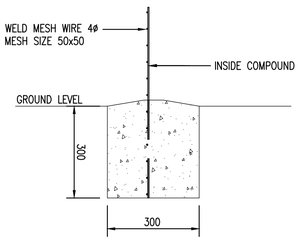
PLAN ON PRESSURE REDUCTION INSTALLATION
(SCALE 1:100)



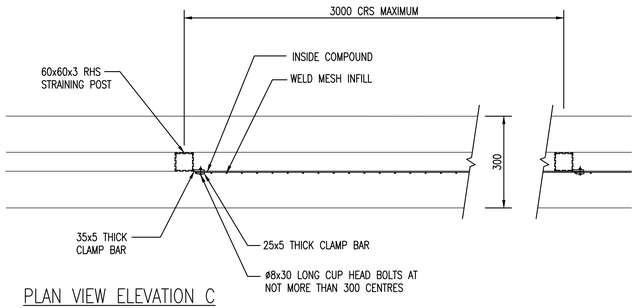
INTERMEDIATE POS-CONCRETE GROUND SILL
(SCALE 1:10)



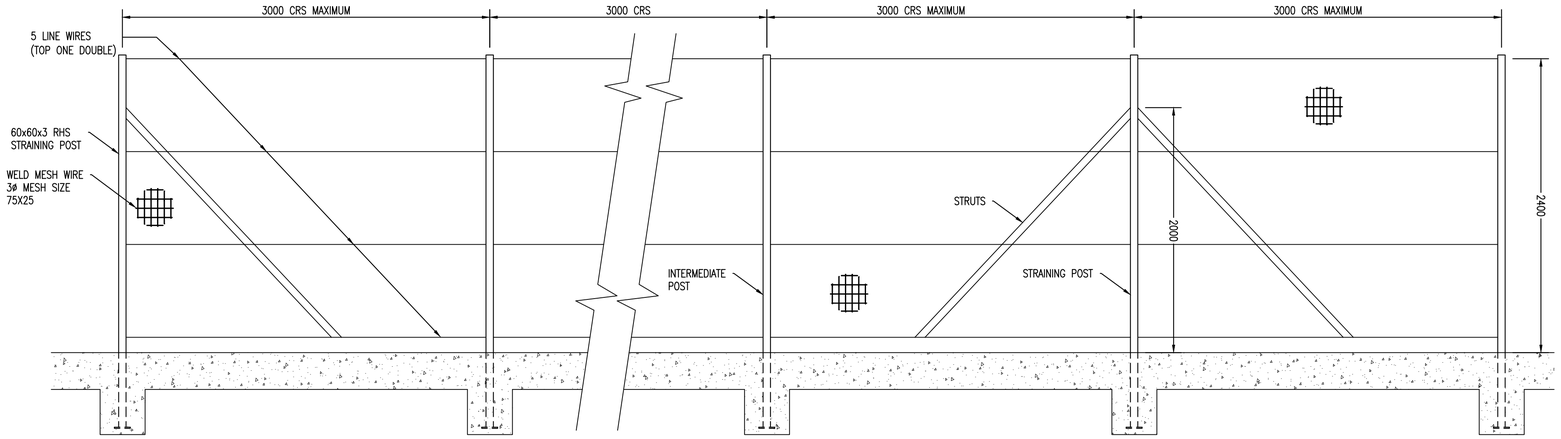
STRAINING POST CONCRETE GROUND SILL
(SCALE 1:10)



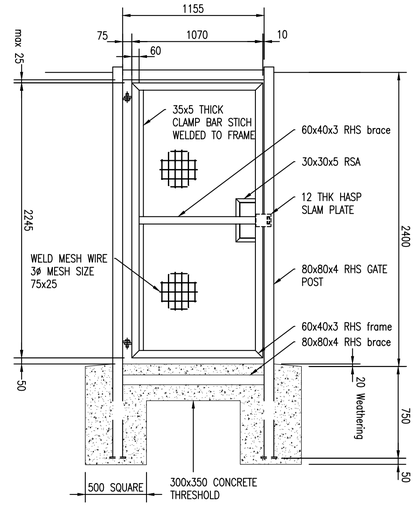
TYPICAL SECTION
SECTION THROUGH WELDED MESH CONCRETE GROUND SILL
(SCALE 1:10)



PLAN VIEW ELEVATION C
EXTERNAL ELEVATION OF FENCING
(SCALE 1:10)



ELEVATION C- EXTERNAL ELEVATION OF FENCING
(SCALE 1:25)



ELEVATION B- INTERNAL ELEVATION OF ACCESS GATE
(SCALE 1:25)

0 0.5 1 m
SCALE 1:10

0 1 2 2.5 m
SCALE 1:25

0 5 10 m
SCALE 1:100

DO NOT SCALE

1. GENERAL NOTES

1.1. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HEALTH & SAFETY AT WORK ACT 1974 AND THE CONSTRUCTION [DESIGN & MANAGEMENT] REGULATIONS 2015.

1.2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS AND THE PROJECT SPECIFICATION, AND WE HIGHLIGHT THE REFERENCE DRAWINGS LISTED.

1.3. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH CADENT TECHNICAL SPECIFICATION GD/SP/CE/1.

1.4. FENCING SHALL BE IN ACCORDANCE WITH CADENT TECHNICAL SPECIFICATION GD/SP/CE/3.

1.5. NOTIFY SUPERVISING OFFICER OF ANY VARIATION BETWEEN INFORMATION CONTAINED ON THIS DRAWING AND NATIONAL GRID SPECIFICATION AND OBTAIN WRITTEN APPROVAL BEFORE PROCEEDING.

1.6. DIMENSIONS SHOULD NOT BE SCALED FROM DRAWINGS.

1.7. ALL LEVELS ARE IN METERS AND UNLESS NOTED OTHERWISE ARE STRUCTURAL LEVELS RELATED TO ORDNANCE DATUM.

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1.9. NO HOLES, CHASES, CUT-OUTS ETC MAY BE FORMED IN ANY STRUCTURAL MEMBER UNLESS PRIOR WRITTEN PERMISSION IS OBTAINED FROM THE DESIGNER.

1.10. ALL EXCAVATIONS ARE TO BE KEPT DRY AND FREE OF GROUND WATER DURING THE CONSTRUCTION OF THESE WORKS. DESIGN OF TEMPORARY WORKS FOR SAFE EXCAVATION IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR.

1.11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT ON THE PROJECT.

2. CONCRETE GENERAL:

2.1. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH NATIONAL GRID TECHNICAL SPECIFICATION GD/SP/CE/1.

2.2. CONCRETE SPECIFICATION SHALL BE AS FOLLOWS:

CONCRETE SPECIFICATION TO BS 8500-2		
	DESIGNATED CONCRETE	STRENGTH CLASS
POST FOUNDATION AND GROUND SILL	RC50XF	C40/50

2.3. STRUCTURAL CONCRETE SHALL BE DC-4 FOR ACEC CLASS AC-4 AND DESIGN SULPHATE CLASS DS-4.

3. HEALTH & SAFETY NOTES

3.1. THE SUPPLY OF EXISTING INFORMATION BY WSP DOES NOT IMPLY ACCEPTANCE OR ACCURACY OF THIS INFORMATION AND THE PRINCIPAL CONTRACTOR MUST CONFIRM THESE DETAILS [BY CAT SCAN OR OTHER MEANS] BEFORE PROGRESSING ANY OF THE WORKS.

3.2. CADENT SPECIFICATION GD/SP/SSW/22 SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE.

3.3. NO WORK SHALL BE CARRIED WITHOUT PRESENCE OF CADENT SAFE CONTROL OF THE OPERATION REPRESENTATIVE.

3.4. HSG47 AVOIDING DANGER FROM UNDERGROUND SERVICES SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE.

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70085522-WSP-02-XX-DG-CV-0015 – GLYCOL STORAGE & VALVE PIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 – DRAW PIT & CABLE DUCTS DETAILS & GA

LEGEND:

GL : EXISTING GROUND LEVEL

TOC : TOP OF CONCRETE

3.5 RISK ASSESSMENT AND METHOD STATEMENT TO BE SUBMITTED TO CADENT FOR APPROVAL PRIOR TO CONSTRUCTION.

3.6 KEY TO HEALTH AND SAFETY SYMBOLS:

INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.

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INDICATES A RESIDUAL RISK AS A WARNING.

REV.	DATE	BY	DESCRIPTION	CHK	APP
P02	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P01	30/06/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

wsp
Manchester First Street, Manchester, M15 4RP, UK
T+ 44 (0) 161 200 5000, F+ 44 (0) 161 200 5001
wsp.com

CLIENT: Cadent Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - IP/MP FENCING LAYOUT & DETAILS SHEET 2 0F 2

SCALE @ A1:	CHECKED:	APPROVED:
1:100	R DAWSON	P KENYON

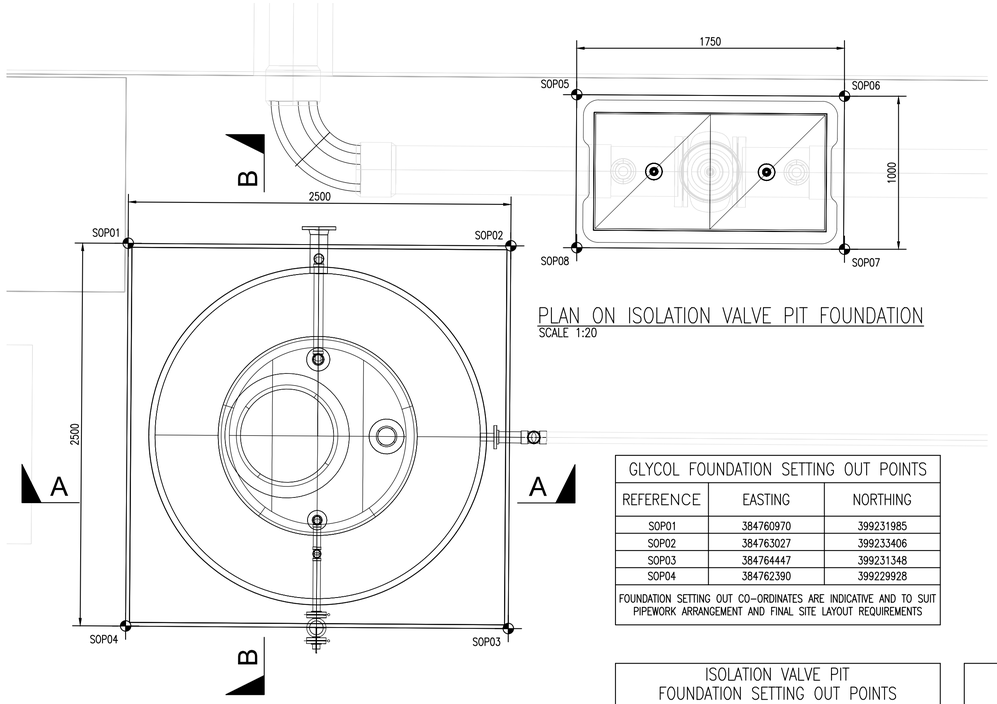
PROJECT No:	DESIGNED:	DRAWN:	DATE:
70085522	M POTTER	J LOMAS	DECEMBER 2022

DRAWING No: 70085522-WSP-02-XX-DG-CV-0014 REV: P02

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File name \\UK-WSPGROUP.COM\CENTRAL DATA\PROJECTS\70085XXX\70085522 - CADENT - GOULD STREET DETAILED DESIGN\03 WIP\CV CIVIL\03 DRAWINGS\70085522-WSP-02-XX-DG-CV-0014_P02 - FENCING LAYOUT & DETAILS SHEET 2 OF 2.DWG

DO NOT SCALE



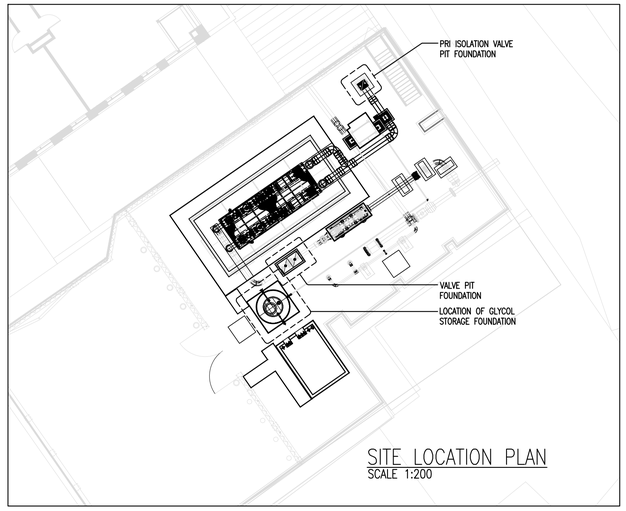
PLAN ON ISOLATION VALVE PIT FOUNDATION
SCALE 1:20

PLAN ON GLYCOL STORAGE FOUNDATION
SCALE 1:20

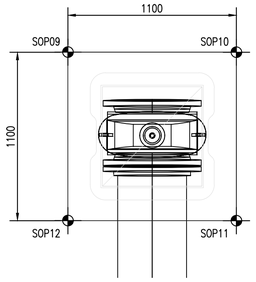
GLYCOL FOUNDATION SETTING OUT POINTS		
REFERENCE	EASTING	NORTHING
SOP01	384760970	399231985
SOP02	384763027	399233406
SOP03	384764447	399231348
SOP04	384762390	399229928
FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS		

ISOLATION VALVE PIT FOUNDATION SETTING OUT POINTS		
REFERENCE	EASTING	NORTHING
SOP05	384762813	399234462
SOP06	384764252	399235457
SOP07	384764821	399234635
SOP08	384763382	399233640
FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS		

PRI VALVE PIT FOUNDATION SETTING OUT POINTS		
REFERENCE	EASTING	NORTHING
SOP09	384767787	399246316
SOP10	384768692	399246941
SOP11	384769317	399246035
SOP12	384768412	399245410
FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS		



SITE LOCATION PLAN
SCALE 1:200



PLAN ON PRI ISOLATION VALVE PIT FOUNDATION
SCALE 1:20

1. GENERAL NOTES

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1.2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS AND THE PROJECT SPECIFICATION, AND WE HIGHLIGHT THE REFERENCE DRAWINGS LISTED.

1.3. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH NATIONAL GRID TECHNICAL SPECIFICATION GD/SP/CE/1.

1.4. NOTIFY SUPERVISING OFFICER OF ANY VARIATION BETWEEN INFORMATION CONTAINED ON THIS DRAWING AND NATIONAL GRID SPECIFICATION AND OBTAIN WRITTEN APPROVAL BEFORE PROCEEDING.

1.5. DIMENSIONS SHOULD NOT BE SCALED FROM DRAWINGS.

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1.9. ALL EXCAVATIONS ARE TO BE KEPT DRY AND FREE OF GROUND WATER DURING THE CONSTRUCTION OF THESE WORKS. DESIGN OF TEMPORARY WORKS FOR SAFE EXCAVATION IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR.

1.10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT ON THE PROJECT.

1.11. ALL TEMPORARY WORKS ARE TO COMPLY WITH BS 5975

2. EXCAVATIONS

2.1. ALL MADE GROUND SHALL BE EXCAVATED AND REMOVED, AND REPLACED BY GRANULAR FILL TO A SUITABLE FORMATION LEVEL. THE FORMATION SHOULD BE PROOF ROLLED BEFORE RECEIVING THE GRANULAR FILL (400mm MIN TO BE REMOVED).

2.2. SOFT OR UNSUITABLE GROUND BELOW FORMATION LEVEL SHALL BE EXCAVATED AND FILLED WITH GRANULAR FILL, PLACED AND COMPACTED IN LAYERS.

2.3. UNSUITABLE GROUND INCLUDES: ORGANIC MATERIAL (FIBROUS, SPONGY OR SOFT DARK MATERIAL), SOFT CLAYS (COHESIVE MATERIAL THAT CAN BE MOULDED BY LIGHT FINGER PRESSURE).

2.4. A MINIMUM BEARING CAPACITY OF 25 kN/m² IS REQUIRED AT FOUNDATION FORMATION LEVEL.

2.5. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 225mm.

2.6. ANY LARGE VOIDS SHOULD BE REPORTED TO THE ENGINEER FOR INVESTIGATION.

3. HEALTH & SAFETY NOTES

3.1. THE SUPPLY OF EXISTING INFORMATION BY WSP DOES NOT IMPLY ACCEPTANCE OR ACCURACY OF THIS INFORMATION AND THE PRINCIPAL CONTRACTOR MUST CONFIRM THESE DETAILS [BY CAT SCAN OR OTHER MEANS] BEFORE PROGRESSING ANY OF THE WORKS.

3.2. NATIONAL GRID SPECIFICATION GD/SP/SSW/22 SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE. CONTRACTOR TO FOLLOW THE GUIDANCE GIVEN IN HSG47 WHEN CARRYING OUT EXCAVATION WORK IN ORDER TO MINIMISE THE RISK OF CONTACT WITH BURIED SERVICES.

3.3. NO WORK SHALL BE CARRIED WITHOUT PRESENCE OF CADENT SAFE CONTROL OF THE OPERATION REPRESENTATIVE.

3.4. HSG47 AVOIDING DANGER FROM UNDERGROUND SERVICES SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE.

3.5. RISK ASSESSMENT AND METHOD STATEMENT TO BE SUBMITTED TO CADENT FOR APPROVAL PRIOR TO CONSTRUCTION.

3.6. KEY TO ALTERNATIVE SAFETY SYMBOLS

INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.

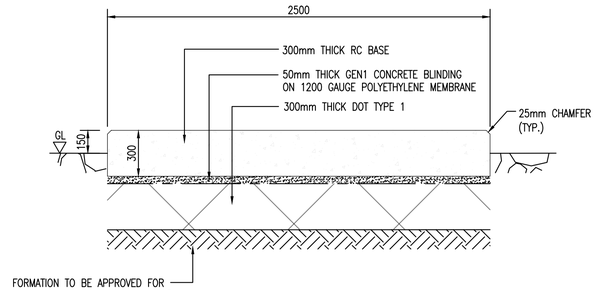
INDICATES A RESIDUAL RISK FOR INFORMATION.

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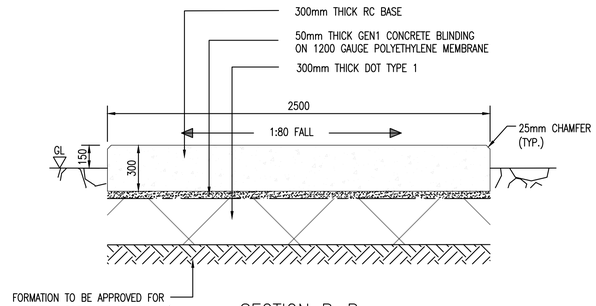
INDICATES A RESIDUAL RISK AS A WARNING.

REFERENCE DRAWINGS:

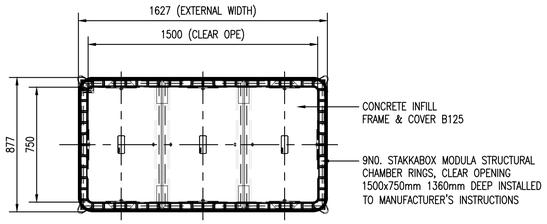
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70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS
70085522-WSP-02-XX-DG-CV-0017_P01 – DRAW PIT & CABLE DUCTS DETAILS & GA



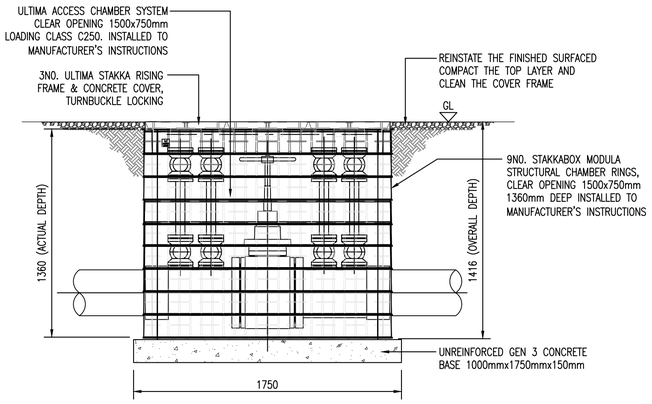
SECTION A–A
SCALE 1:20



SECTION B–B
SCALE 1:20

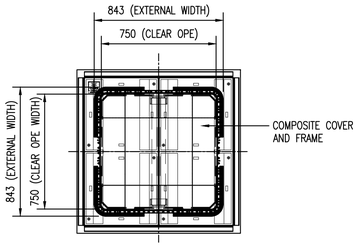


PLAN OF FRAME & COVER

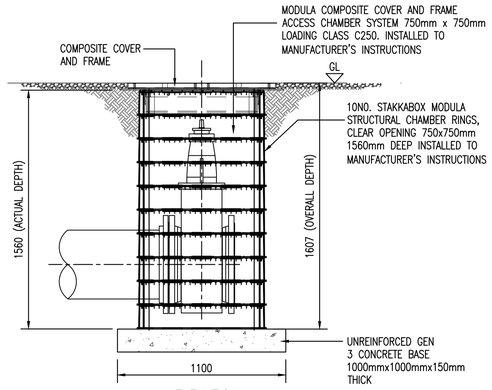


ELEVATION

PRI ISOLATION VALVE PIT
SCALE 1:20



PLAN OF FRAME & COVER



ELEVATION

PRI ISOLATION VALVE PIT
SCALE 1:20

0 0.5 1 m
SCALE 1:10

0 10 20 m
SCALE 1:200

REV	DATE	BY	DESCRIPTION	CHK	APP
P02	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P01	30/06/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

wsp
Manchester First Street, Manchester, M15 4RP, UK
T+ 44 (0) 161 200 5000, F+ 44 (0) 161 200 5001
wsp.com

CLIENT: Cadent – Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - GLYCOL STORAGE & VALVE PIT FOUNDATION LAYOUT

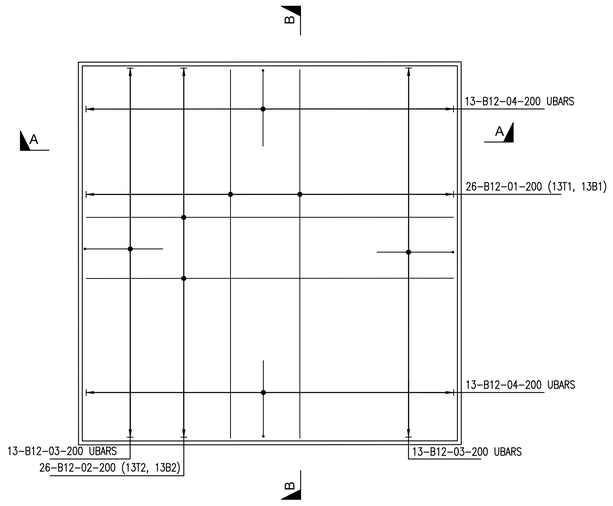
SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	R DAWSON	P KENYON

PROJECT No:	DESIGNED:	DRAWN:	DATE:
70085522	M POTTER	J LOMAS	DECEMBER 2022

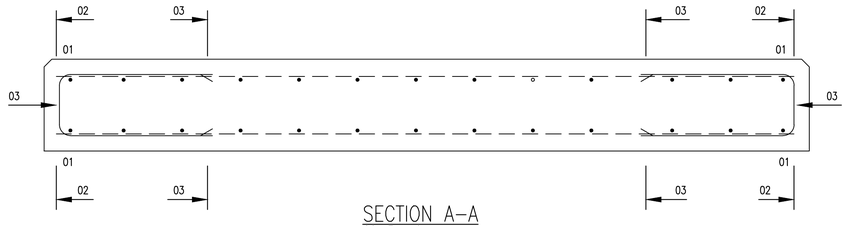
DRAWING No: 70085522-WSP-02-XX-DG-CV-0015 REV: P02

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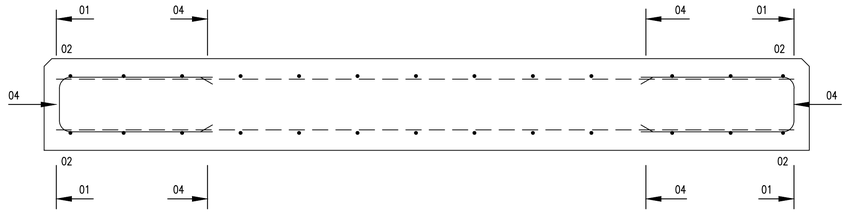
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PLAN ON GLYCOL STORAGE FOUNDATION
SCALE 1:20



SECTION A-A
SCALE 1:10



SECTION B-B
SCALE 1:10

FOR GENERAL NOTES AND HEALTH AND SAFETY NOTES REFER TO DRAWING 70085522-WSP-02-XX-DG-CV-0001

1. CONCRETE GENERAL:

1.1. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH CADENT TECHNICAL SPECIFICATION GD/SP/CE/1.

1.2. CONCRETE SPECIFICATION SHALL BE AS FOLLOWS:

CONCRETE SPECIFICATION TO BS 8500-2		
	LOADING AT MIN 28-DAY STRENGTH	LOADING AT MIN 7-DAY STRENGTH
	DESIGNATED CONCRETE	STRENGTH CLASS
BASE SLAB	RC50XF	C40/50
BLINDING	GEN 1	
CONCRETE FILL	GEN 1 (SLUMP CLASS S4)	

1.3. STRUCTURAL CONCRETE SHALL BE DC-4 FOR ACEC CLASS AC-4 AND DESIGN SULPHATE CLASS DS-4.

1.4. CONCRETE BLINDING SURFACE FINISH (WITHOUT POLYETHYLENE SHEET COVER) SHALL HAVE TAMPED FINISH IN COMPLIANCE CADENT GD/SP/CE/1: CLAUSE 4.2.6.4.

1.5. STRUCTURAL CONCRETE SURFACES SUBJECTED TO PEDESTRIAN TRAFFIC SHALL HAVE BRUSHED FINISH IN COMPLIANCE WITH CADENT GD/SP/CE/1: CLAUSE 4.2.14.1.

2. REINFORCED CONCRETE

2.1. MAIN CONTRACTOR IS TO SUBMIT TO THE CADENT SUPERVISING OFFICER FOR APPROVAL 10 DAYS PRIOR TO COMMENCEMENT OF WORK DETAILS OF PROPOSED DAY/CONSTRUCTION JOINTS UNLESS AGREED OTHERWISE

2.2. NOMINAL COVER TO ALL REINFORCEMENT TO BE 40mm UNLESS SHOWN OTHERWISE ON DRAWING.

2.3. ALL EXPOSED ARISES SHALL HAVE 25mm CHAMFERS.

2.4. THE PRINCIPAL CONTRACTOR IS TO PROVIDE ALL NECESSARY CHAIRS AND SPACERS TO MAINTAIN CONCRETE COVER AND CORRECT PLACEMENT OF THE REINFORCEMENT.

2.5. THE CONTRACTOR IS RESPONSIBLE FOR THE DETAILING OF ANY CHAIRS WHICH ARE REQUIRED.

2.6. CONSTRUCTION METHOD STATEMENT TO BE SUBMITTED FOR COMMENT 10 DAYS PRIOR TO COMMENCEMENT OF THE WORK.

2.7. REINFORCEMENT NOTATION USED:

No — BAR MARK — LOCATION — DESCRIPTION
10 - B12 - 01 - 300 - B2 - UBARS
TYPE / DIA — CENTRES

2.8. STEEL TYPE:
B = GRADE B500B OR B500C TO BS 4449:2005

2.9. BAR LOCATION ABBREVIATIONS USED
SLAB:-
T1 - TOP OUTER LAYER
T2 - TOP INNER LAYER
B2 - BOTTOM INNER LAYER
B1 - BOTTOM OUTER LAYER

2.10. MINIMUM LAPS TO BE :
B10 = 440mm
B12 = 570mm
B16 = 830mm
B20 = 1100mm
B25 = 1420mm
UNLESS NOTED OTHERWISE

2.11. BAR REINFORCEMENT TO BE TO BS4449:2005 & REBAR CUTTING AND BENDING TO BS8666:2005

2.12. FABRIC REINFORCEMENT TO BE TO BS4483:2005

2.13. SEE 70085522-WSP-02-XX-DG-CV-0005_BS01 FOR BAR BENDING SCHEDULE

2.14. WHERE STARTER BARS AND CONTINUITY BARS PROJECT FROM THE CONCRETE, THERE IS A RISK OF INJURY. THE REINFORCEMENT HAS BEEN DETAILED ASSUMING THAT THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO MITIGATE THIS RISK.

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 - IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0002 - IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0003 - IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0003- IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0004 - IP/MP METERING STATION FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0005 - IP/MP METERING STATION FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0005 - IP/MP METERING STATION FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0006 - IP/MP HOT MEG UNIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0007 - IP/MP HOT MEG UNIT FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0007 - IP/MP HOT MEG UNIT FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0008 - IP/MP EC&I KIOSK FOUNDATION LAYOUT
70085522-WSP-02-XX-SH-CV-0009 - IP/MP EC&I KIOSK FOUNDATION RC SECTION & DETAILS
70085522-WSP-02-XX-SH-CV-0009 - IP/MP EC&I KIOSK FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0010 - IP/MP INLET ISOLATION VALVE PIPE SUPPORT LAYOUT
70085522-WSP-02-XX-DG-CV-0011 - IP/MP INLET ISOLATION VALVE PIPE SUPPORT RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0011- IP/MP INLET ISOLATION VALVE PIPE SUPPORT BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0012 - IP/MP PAVING PLAN & EXTERNAL WORKS DETAILS
70085522-WSP-02-XX-DG-CV-0013 - IP/MP FENCING LAYOUT & DETAILS
70085522-WSP-02-XX-DG-CV-0014 - CABLE DUCTING LAYOUT & DETAILS
70085522-WSP-02-XX-DG-CV-0015 - GLYCOL STORAGE & VALVE PIT FOUNDATION LAYOUT

0 1 2 m
SCALE 1:20

0 0.5 1 m
SCALE 1:10

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P02	12/08/2022	MP	UPDATED AS PER G17 COMMENTS - TEXT AMMENDMENTS	RD	PK
P01	30/06/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

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Manchester First Street, Manchester, M15 4RP, UK
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wsp.com

CLIENT: Cadent
Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - GLYCOL STORAGE & VALVE PIT RC FOUNDATION SECTIONS & DETAILS

SCALE @ A1:	CHECKED:		APPROVED:
1:100	R DAWSON		P KENYON
PROJECT No:	DESIGNED:	DRAWN:	DATE:
70085522	M POTTER	J LOMAS	DECEMBER 2022

DRAWING No: 70085522-WSP-02-XX-DG-CV-0016 REV: P03

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File name \\UK.WSPGROUP.COM\CENTRAL DATA\PROJECTS\70085XXX\70085522 - CADENT - GOULD STREET DETAILED DESIGN\03 WIP\CV CIVIL\03 DRAWINGS\70085522-WSP-02-XX-DG-CV-0016_P01 - GLYCOL STORAGE RC SECTIONS & DETAILS.DWG

Project	Bilbrook Street - IP/MP			Status	PRELIMINARY
Date	14-Nov-22	Job no	Drawing no	Schedule no	Rev
By	MP	70085522	WSP-02-XX-DG-CV-0016	SH 01	P02
Checked	RD				

Rev	Date	Details
P01	30-Jun-22	FIRST ISSUE

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Part

Glycol Storage Foundation

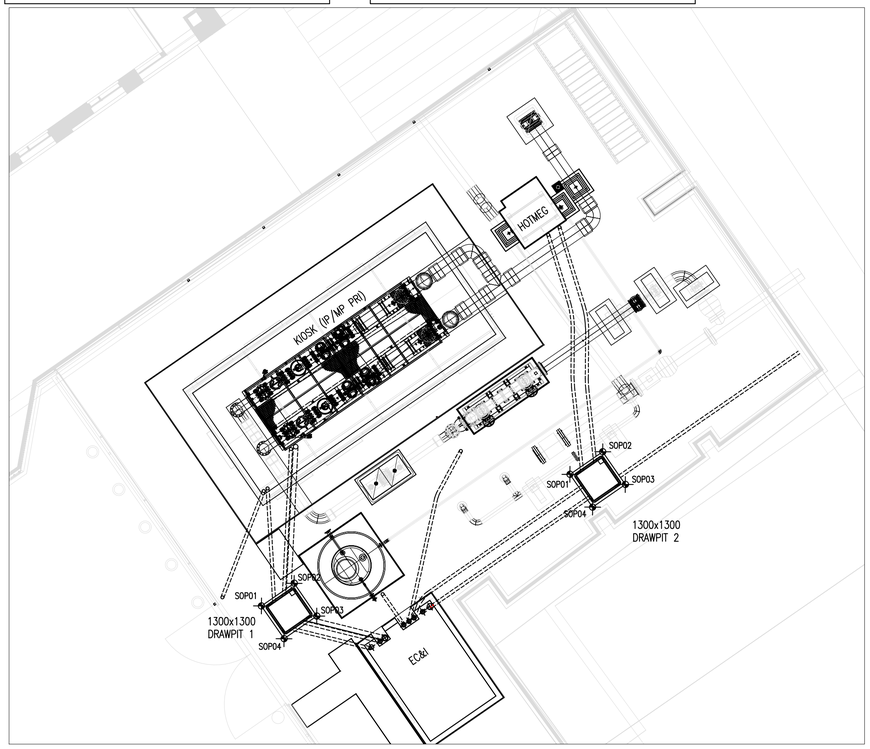
Member	Bar mark	Type and size	No of mbrs	No of bars in each	Total no of bars	Length of each bar mm †	Shape code	*A* * mm	*B* * mm	*C* * mm	*D* * mm	*E/R* * mm	Rev letter
SLAB	01	B 12	1	26	26	2400	00	2400					
	02	B 12	1	26	26	2400	00	2400					
	03	B 12	1	26	26	875	21	500	200	*200*			
	04	B 12	1	26	26	775	21	500	150	*150*			

This schedule complies with Eurocode 2 & BS 8666:2005

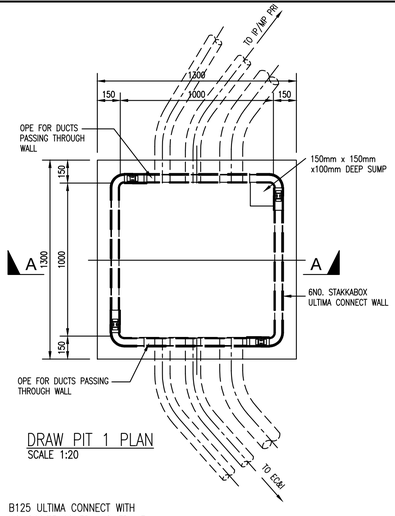
* Specified in multiples of 5 mm. † Specified in multiples of 25 mm.

DRAW PIT 1 FOUNDATION SETTING OUT POINTS		
REFERENCE	EASTING	NORTHING
SOP01	384759769	399230345
SOP02	384760838	399231084
SOP03	384761577	399230014
SOP04	384760507	399229275
FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS		

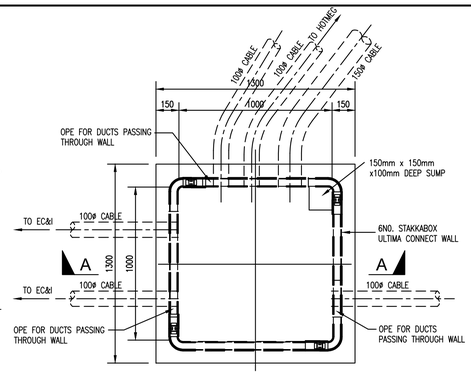
DRAW PIT 2 FOUNDATION SETTING OUT POINTS		
REFERENCE	EASTING	NORTHING
SOP01	384769849	399234642
SOP02	384770919	399235381
SOP03	384771658	399234310
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FOUNDATION SETTING OUT CO-ORDINATES ARE INDICATIVE AND TO SUIT PIPEWORK ARRANGEMENT AND FINAL SITE LAYOUT REQUIREMENTS		



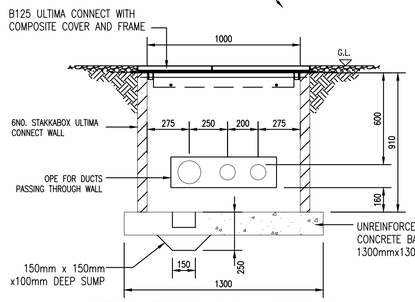
DRAW PIT 1&2 PLAN G.A.
SCALE 1:100



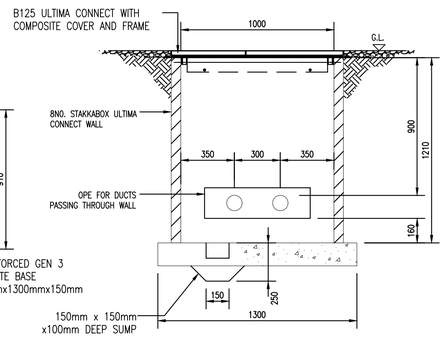
DRAW PIT 1 PLAN
SCALE 1:20



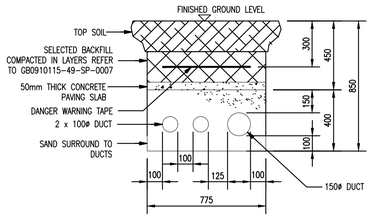
DRAW PIT 2 PLAN
SCALE 1:20



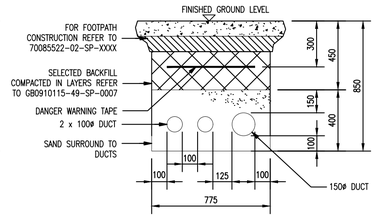
TYPICAL SECTION A–A – DRAW PIT 1
SCALE 1:20



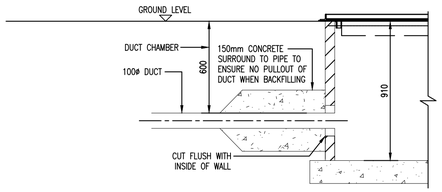
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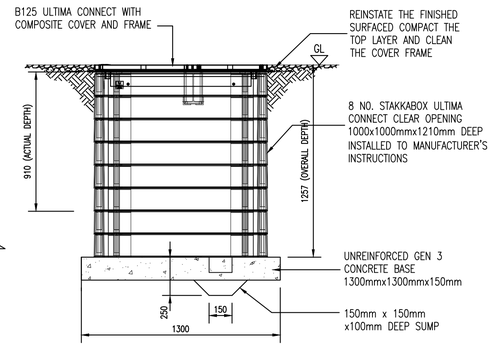
TYPICAL SECTION THROUGH 3NO. CABLE DUCTS L.V. TRENCH IN SOFT GROUND
SCALE 1:20



TYPICAL SECTION THROUGH 3NO. CABLE DUCTS L.V. TRENCH IN FOOTPATH
SCALE 1:20

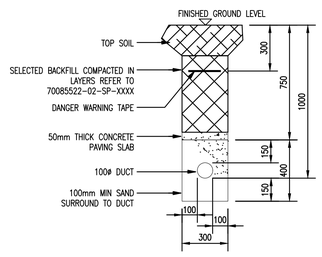


PROFILE OF CABLE DUCTS AS THEY ENTER ENTER AND LEAVE CHAMBERS
SCALE 1:20

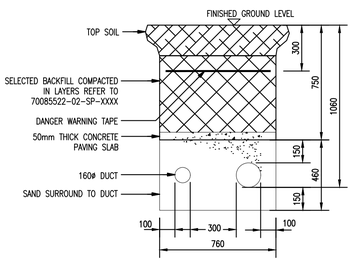


TYPICAL ELEVATION

TYPICAL DRAW PIT 1 DETAIL
SCALE 1:20

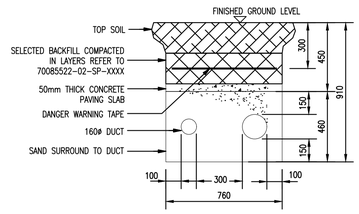


TYPICAL SECTION THROUGH 1NO. CABLE DUCTS L.V. TRENCH IN SOFT GROUND
SCALE 1:20

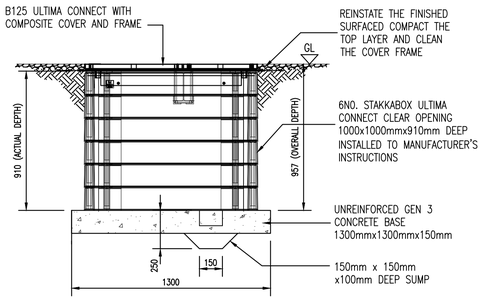


TYPICAL SECTION THROUGH 2NO. CABLE DUCTS L.V. TRENCH IN SOFT GROUND (900mm D.O.C)
SCALE 1:20

NOTE:
ALL DUCTS TO BE LAID IN TRENCHES AS FOLLOES:
- BEDDING TO UNDERSIDE OF LOWEST ROW OF DUCTS TO BE FORMED
- LOWEST ROW OF DUCTS TO BE LAID AND SPACED ACCORDINGLY
- SURROUND MATERIAL TO BE PLACED TO DUCTS
- SECOND ROW OF DUCTS TO BE LAID AND SPACED ACCORDINGLY
- SURROUND MATERIAL TO BE PLACED TO DUCTS
- REMAINING FILL TO BE PLACED AS PER SECTIONS



TYPICAL SECTION THROUGH 2NO. CABLE DUCTS L.V. TRENCH IN SOFT GROUND (600mm D.O.C)
SCALE 1:20



TYPICAL ELEVATION

TYPICAL DRAW PIT 2 DETAIL
SCALE 1:20

1. GENERAL NOTES

1.1. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HEALTH & SAFETY AT WORK ACT 1974 AND THE CONSTRUCTION [DESIGN & MANAGEMENT] REGULATIONS 2015.

1.2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS AND THE PROJECT SPECIFICATION, AND WE HIGHLIGHT THE REFERENCE DRAWINGS LISTED.

1.3. CARRY OUT ALL CONCRETE WORKS AND TESTING IN ACCORDANCE WITH NATIONAL GRID TECHNICAL SPECIFICATION GD/SP/CE/1.

1.4. NOTIFY SUPERVISING OFFICER OF ANY VARIATION BETWEEN INFORMATION CONTAINED ON THIS DRAWING AND NATIONAL GRID SPECIFICATION AND OBTAIN WRITTEN APPROVAL BEFORE PROCEEDING.

1.5. DIMENSIONS SHOULD NOT BE SCALED FROM DRAWINGS.

1.6. ALL LEVELS ARE IN METERS AND UNLESS NOTED OTHERWISE ARE STRUCTURAL LEVELS RELATED TO ORDNANCE DATUM.

1.7. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS NOTED OTHERWISE).

1.8. NO HOLES, CHASES, CUT-OUTS ETC MAY BE FORMED IN ANY STRUCTURAL MEMBER UNLESS PRIOR WRITTEN PERMISSION IS OBTAINED FROM THE DESIGNER.

1.9. ALL EXCAVATIONS ARE TO BE KEPT DRY AND FREE OF GROUND WATER DURING THE CONSTRUCTION OF THESE WORKS. DESIGN OF TEMPORARY WORKS FOR SAFE EXCAVATION IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR.

1.10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT ON THE PROJECT.

2. EXCAVATIONS

2.1. ALL MADE GROUND SHALL BE EXCAVATED AND REMOVED, AND REPLACED BY GRANULAR FILL TO A SUITABLE FORMATION LEVEL. THE FORMATION SHOULD BE PROOF ROLLED BEFORE RECEIVING THE GRANULAR FILL (400mm MIN TO BE REMOVED).

2.2. SOFT OR UNSUITABLE GROUND BELOW FORMATION LEVEL SHALL BE EXCAVATED AND FILLED WITH GRANULAR FILL, PLACED AND COMPACTED IN LAYERS.

2.3. UNSUITABLE GROUND INCLUDES: ORGANIC MATERIAL (FIBROUS, SPONGY OR SOFT DARK MATERIAL), SOFT CLAYS (COHESIVE MATERIAL THAT CAN BE MOULDED BY LIGHT FINGER PRESSURE).

2.4. A MINIMUM BEARING CAPACITY OF 25 kN/m^2 IS REQUIRED AT FOUNDATION FORMATION LEVEL.

2.5. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 225mm.

2.6. ANY LARGE VOIDS SHOULD BE REPORTED TO THE ENGINEER FOR INVESTIGATION.

3. HEALTH & SAFETY NOTES

3.1. THE SUPPLY OF EXISTING INFORMATION BY WSP DOES NOT IMPLY ACCEPTANCE OR ACCURACY OF THIS INFORMATION AND THE PRINCIPAL CONTRACTOR MUST CONFIRM THESE DETAILS [BY CAT SCAN OR OTHER MEANS] BEFORE PROGRESSING ANY OF THE WORKS.

3.2. NATIONAL GRID SPECIFICATION GD/SP/SSW/22 SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE. CONTRACTOR TO FOLLOW THE GUIDANCE GIVEN IN HSG47 WHEN CARRYING OUT EXCAVATION WORK IN ORDER TO MINIMISE THE RISK OF CONTACT WITH BURIED SERVICES.

3.3. NO WORK SHALL BE CARRIED WITHOUT PRESENCE OF CADENT SAFE CONTROL OF THE OPERATION REPRESENTATIVE.

3.4. HSG47 AVOIDING DANGER FROM UNDERGROUND SERVICES SHALL BE ADHERED TO AT ALL TIMES DURING CONSTRUCTION WORKS IN THE VICINITY OF THE PIPELINE.

3.5. RISK ASSESSMENT AND METHOD STATEMENT TO BE SUBMITTED TO CADENT FOR APPROVAL PRIOR TO CONSTRUCTION.

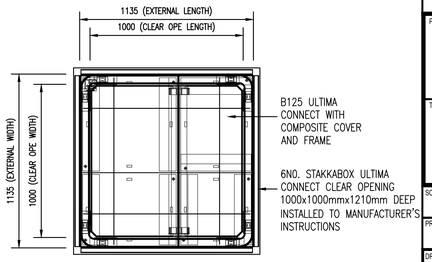
3.6. KEY TO HEALTH & SAFETY SYMBOLS:

INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.

INDICATES A RESIDUAL RISK FOR INFORMATION.

INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.

INDICATES A RESIDUAL RISK AS A WARNING.



PLAN OF FRAME & COVER

DO NOT SCALE

REFERENCE DRAWINGS:

70085522-WSP-02-XX-DG-CV-0001 – IP/MP GENERAL ARRANGEMENT
70085522-WSP-02-XX-DG-CV-0002 – IP/MP PRI FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0003 – IP/MP PRI FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0003- IP/MP PRI FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0005 – IP/MP METERING STATION FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0005 – IP/MP METERING STATION FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0006 – IP/MP HOT MEG UNIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0007 – IP/MP HOT MEG UNIT FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0008 – IP/MP EC&I KIOSK FOUNDATION LAYOUT
70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION RC SECTION & DETAILS
70085522-WSP-02-XX-SH-CV-0009 – IP/MP EC&I KIOSK FOUNDATION BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0010 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT LAYOUT
70085522-WSP-02-XX-DG-CV-0011 – IP/MP INLET ISOLATION VALVE PIPE SUPPORT RC SECTIONS & DETAILS
70085522-WSP-02-XX-SH-CV-0011– IP/MP INLET ISOLATION VALVE PIPE SUPPORT BAR BENDING SCHEDULE
70085522-WSP-02-XX-DG-CV-0012 – IP/MP PAVING PLAN & EXTERNAL WORKS DETAILS
70085522-WSP-02-XX-DG-CV-0013_P01 – FENCING LAYOUT & DETAILS SHEET 1 OF 2
70085522-WSP-02-XX-DG-CV-0014_P01 – FENCING LAYOUT & DETAILS SHEET 2 OF 2
70085522-WSP-02-XX-DG-CV-0015 – GLYCOL STORAGE & VALVE PIT FOUNDATION LAYOUT
70085522-WSP-02-XX-DG-CV-0016 – GLYCOL STORAGE & VALVE PIT R.C. FOUNDATION SECTIONS & DETAILS

LEGEND:

GL : EXISTING GROUND LEVEL

TOC : TOP OF CONCRETE

0 0.5 1 m
SCALE 1:10

0 10 20 m
SCALE 1:200

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	29/11/2022	JL	DETAILS UPDATED AS PER G17 APPRAISAL COMMENTS	MP	RD
P02	11/08/2022	MP	UPDATED CIVILS IN ALIGNMENT WITH COMMENTS FROM ELECTRICAL TEAM	RD	PK
P01	30/06/2022	NS	PRELIMINARY ISSUE	AA	PK

DRAWING STATUS: S2 - FOR INFORMATION

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wsp.com

CLIENT: Cadent – Your Gas Network

PROJECT: GOULD STREET

TITLE: BILBROOK STREET - DRAW PIT AND CABLE DUCT DETAILS AND G.A.

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	R DAWSON	P KENYON
PROJECT No:	DESIGNED: / DRAWN:	DATE:
70085522	M POTTER / J LOMAS	DECEMBER 2022

DRAWING No: 70085522-WSP-02-XX-DG-CV-0017 REV: P03

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File name: \\UK.WSPGROUP.COM\CENTRAL DATA\PROJECTS\70085XXX\70085522 - CADENT - GOULD STREET DETAILED DESIGN\03 WIP\CV CIVILS\03 DRAWINGS\70085522-WSP-02-XX-DG-CV-0017_P03 - DRAW PIT & CABLE DUCTS DETAILS & GA.DWG