



Forth Replacement Crossing

**Employer's Delivery Team
Principal Contract and M9J1a Contract**

Fixed Noise Monitor Locations

April 2012



An agency of  The Scottish Government



FORTH REPLACEMENT CROSSING

**EMPLOYER'S DELIVERY TEAM
PRINCIPAL CONTRACT AND M9J1A CONTRACT
FIXED NOISE MONITOR LOCATIONS**

Revision Status

Revision	Date	Description	Author	Approved for Use
0	April 2012	Original	DGC	AMM

FORTH REPLACEMENT CROSSING

**EMPLOYER'S DELIVERY TEAM
PRINCIPAL CONTRACT AND M9J1A CONTRACT
FIXED NOISE MONITOR LOCATIONS**

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LOCATIONS**

**APPENDIX B – M9 J1A CONTRACT CONSTRUCTION NOISE MONITORING
LOCATIONS**

1. INTRODUCTION

1.1 This report details the location of the fixed noise and vibration monitoring equipment installed on the Forth Replacement Crossing project.

1.2 The fixed noise and vibration monitoring locations covered in this report are as follows:

- Principal Contact – refer to Appendix A
- M9 Junction 1 A Contract – refer to Appendix B

1.3 Due to the linear nature of the site and timing of different construction activities, continuous monitoring is not appropriate on the Fife ITS Contract and therefore targeted short-term mobile monitoring of specific activities is carried out. Hence, monitoring locations for the Fife ITS Contract are not included in this report.

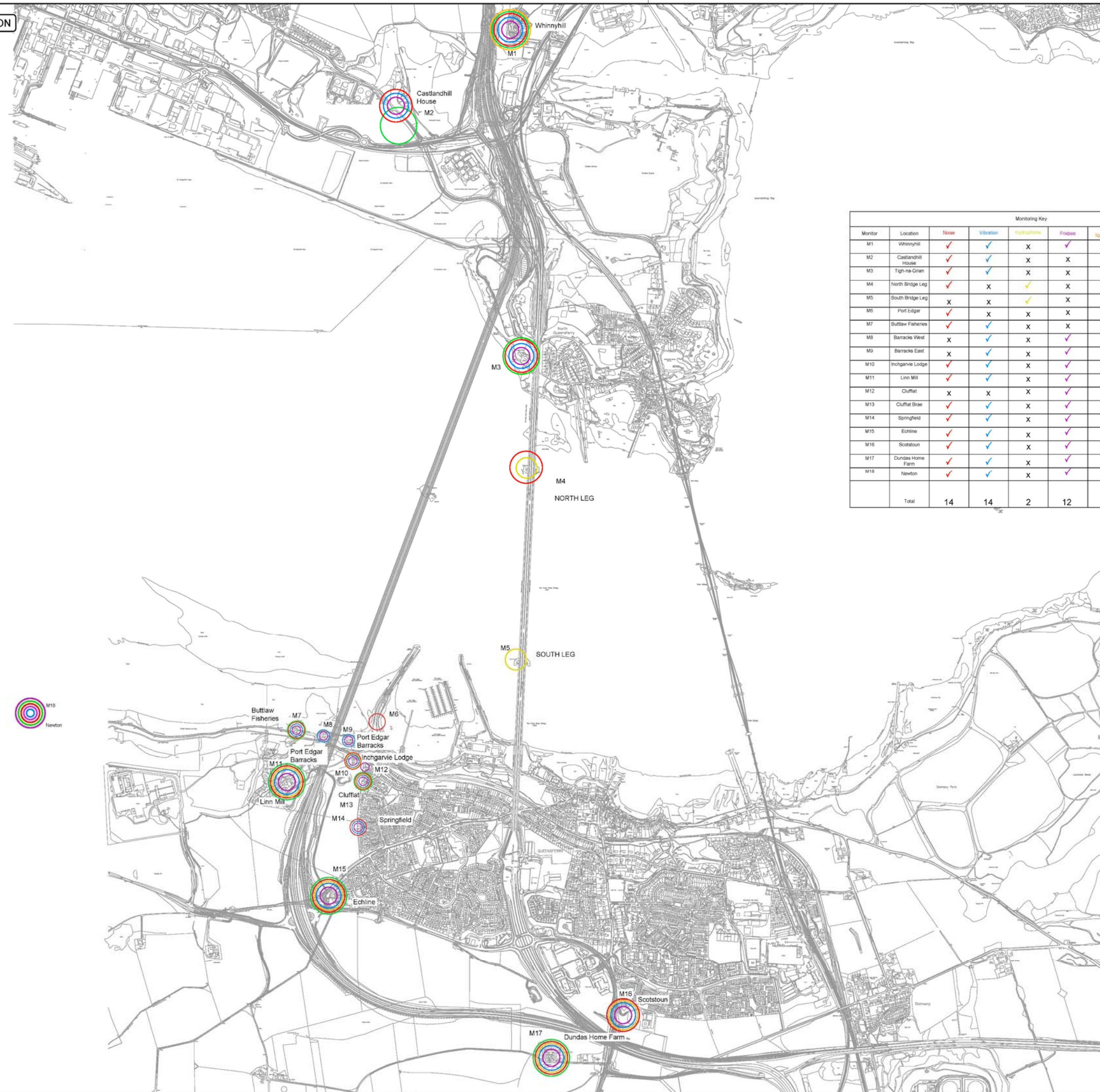
**APPENDIX A - PRINCIPAL CONTRACT CONSTRUCTION NOISE MONITORING
LOCATIONS**

- This drawing shall only be used for the design element stated in the drawing title.
- Only written dimensions shall be used.
- All dimensions are in metres unless noted otherwise.

- Legend
- Mit
 - TEOM
 - PM10 light scatter
 - Hydrophone
 - Noise
 - Vibration
 - Frisbee

Monitoring Key								
Monitor	Location	Noise	Vibration	Hydrophone	Frisbee	PM10 light scatter	PM10 TEOM	Mit
M1	Whinnihill	✓	✓	X	✓	✓	X	✓
M2	Castlandhill House	✓	✓	X	X	X	X	✓
M3	Tigh-na-Grian	✓	✓	X	X	X	X	✓
M4	North Bridge Leg	✓	X	✓	X	X	X	X
M5	South Bridge Leg	X	X	✓	X	X	X	X
M6	Port Edgar	✓	X	X	X	X	X	X
M7	Buttlaw Fisheries	✓	✓	X	X	X	X	✓
M8	Barracks West	X	✓	X	✓	X	X	X
M9	Barracks East	X	✓	X	✓	X	X	X
M10	Inchgarvie Lodge	✓	✓	X	✓	✓	X	X
M11	Linn Mill	✓	✓	X	✓	✓	X	✓
M12	Cluffat	X	X	X	✓	X	X	X
M13	Cluffat Brae	✓	✓	X	✓	✓	X	✓
M14	Springfield	✓	✓	X	✓	X	X	X
M15	Echline	✓	✓	X	✓	✓	X	✓
M16	Scotsloun	✓	✓	X	✓	✓	X	X
M17	Dundas Home Farm	✓	✓	X	✓	✓	X	✓
M18	Newton	✓	✓	X	✓	X	FCBC/WLC JV	✓
Total		14	14	2	12	7	1	9

A1 - DO NOT SCALE



Rev.	Rev. Date	Purpose of revision	Drawn	Checked	Rev.	Rev.	Rev.
03	01/12/2011	Title amended	CGG	SS	SS	JW	
02	10/03/2011	Title amended	CGG	SS	SS	JW	
01	12/09/2011	Title amended	CGG	SS	SS	JW	



Participant
FORTH CROSSING BRIDGE CONSTRUCTORS (FCBC)
 Hochtief | AR | DRAGADOS | Morrison Construction

Project
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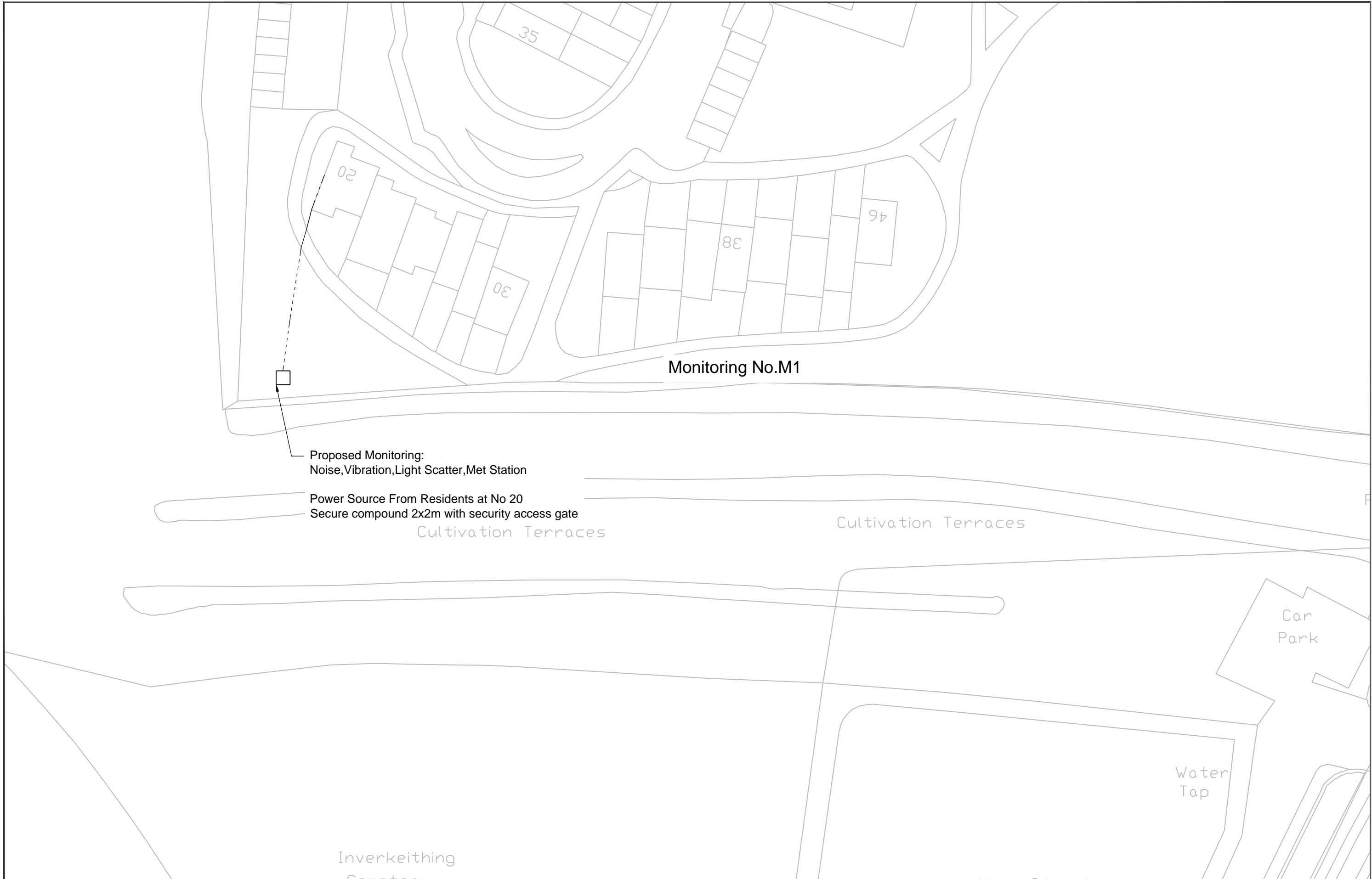
Drawing title
MONITORING LOCATIONS

Design JV
 Ramboll | Grinton | Gifford

Independent Checker
AZCOM FOR INFORMATION

Drawn by: [Name] Checked by: JUV Approved by: JUV
 Issue: C 08/11 Issue: E 07/11 Issue: F 04/11 Issue: G 04/11
 Scale: 1:10000
 Drawing number: **FRC-OVPCNV-D-NV-ENV-17001** Rev: **03**

DO NOT SCALE



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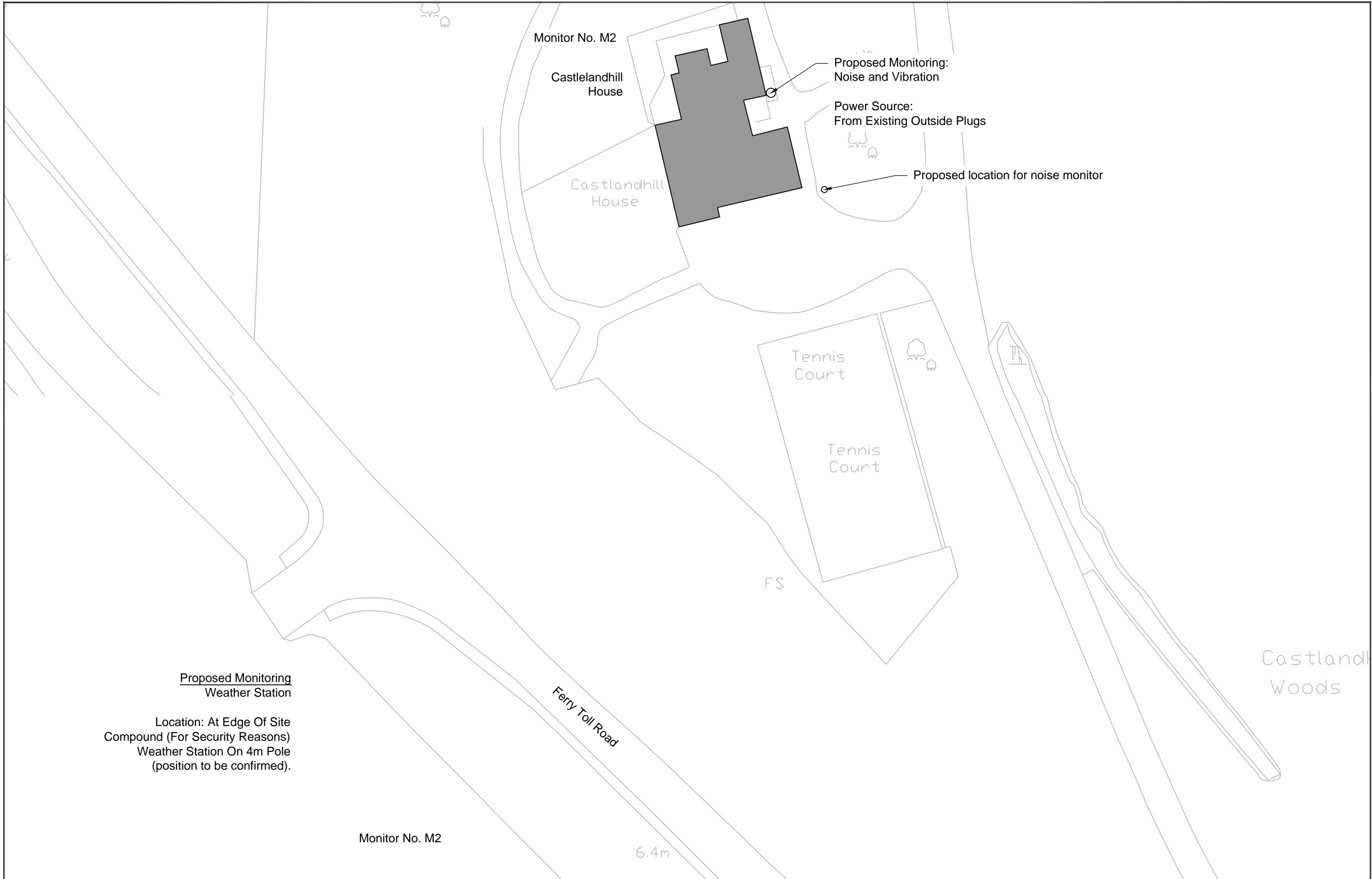
FORTH REPLACEMENT CROSSING

Title

Noise and Vibration Monitoring Locations M1-Whinnyhill

Original Scale	Designed/Drawn	Checked	Authorised
1:500@A3	C.SMITH	S.GLYNN	A.RYAN
Status	Drawing Number	Date	Rev
R	FCBC/M1/FIGURE.1	17/01/2012	0

DO NOT SCALE



Proposed Monitoring Weather Station
Location: At Edge Of Site Compound (For Security Reasons)
Weather Station On 4m Pole (position to be confirmed).

Monitor No. M2

6.4m

Rev	Description	By	Date	Ch'g	Auth

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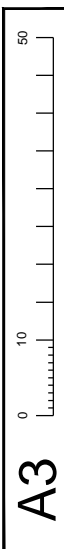
Title

Noise and Vibration Monitoring Locations
M2-Castlandhill House

Original Scale	Designed/Drawn	Checked	Authorised
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Date	Date	Date	Date
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Status	Drawing Number	Rev	
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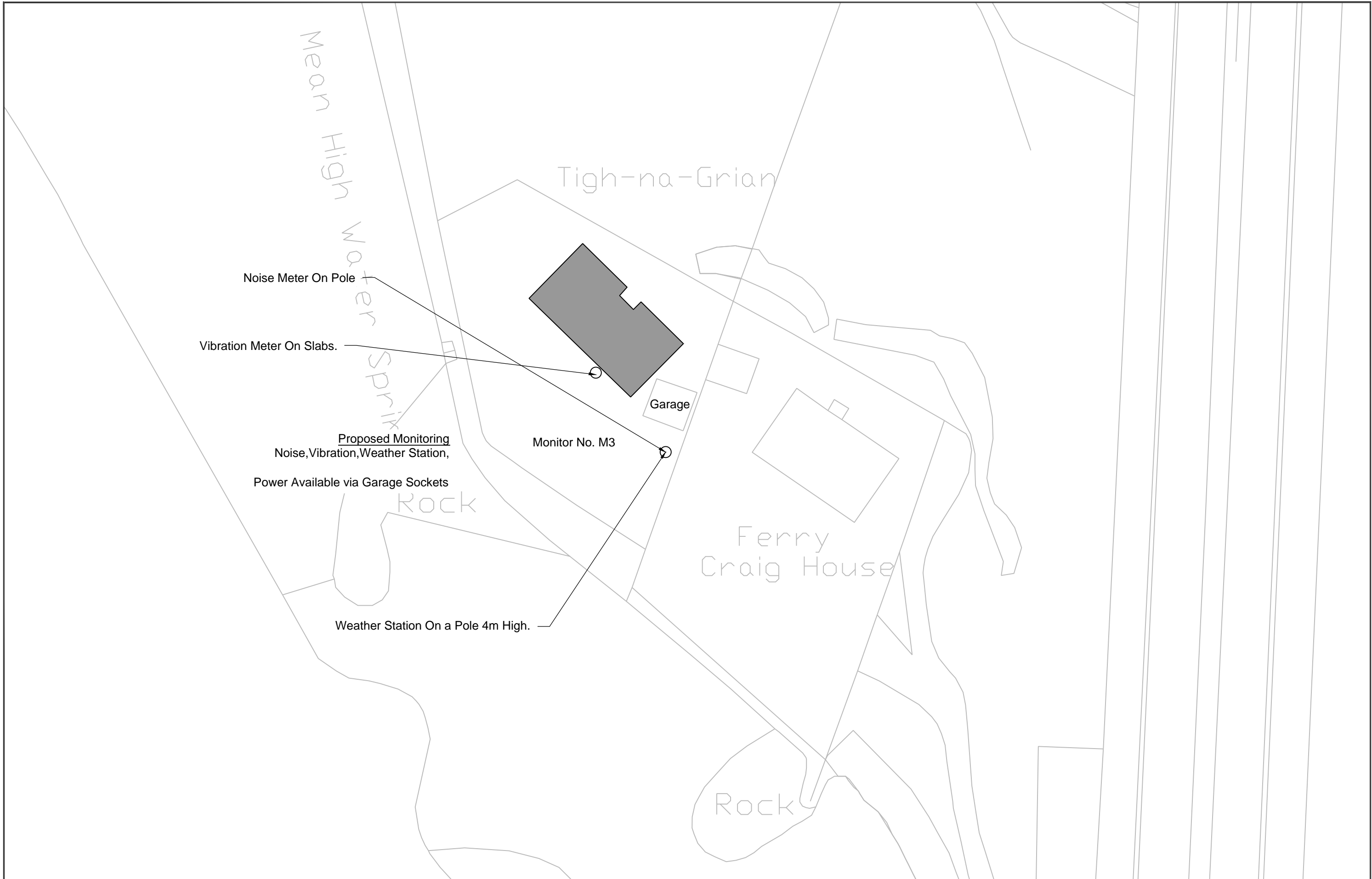
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Drawing Number
Status

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A3

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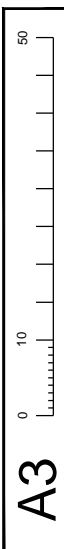
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Noise and Vibration Monitoring Locations M3-Tigh-na-Grian

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Date	Date	Date	Date
05/08/2011	05/08/2011	05/08/2011	05/08/2011
Status	Drawing Number	Rev	
R	FCBC-M3-Figure1	0	

Rev	
Drawing Number	
Status	

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A3

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Cable Towers

Monitor No. M4

MH
&
MLWS

MH
&
MLWS

Proposed Monitoring
Noise,Hydrophone

Power From Bridge. Hydrophone.

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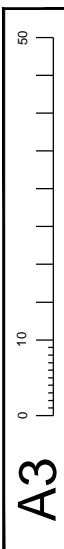
Title

Noise and Vibration Monitoring
Locations
M4-North Bridge Leg

Original Scale	Designed/Drawn	Checked	Authorised
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Date	Date	Date	Date
02/12/2011	02/12/2011	02/12/2011	02/12/2011
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Rev	
Drawing Number	
Status	

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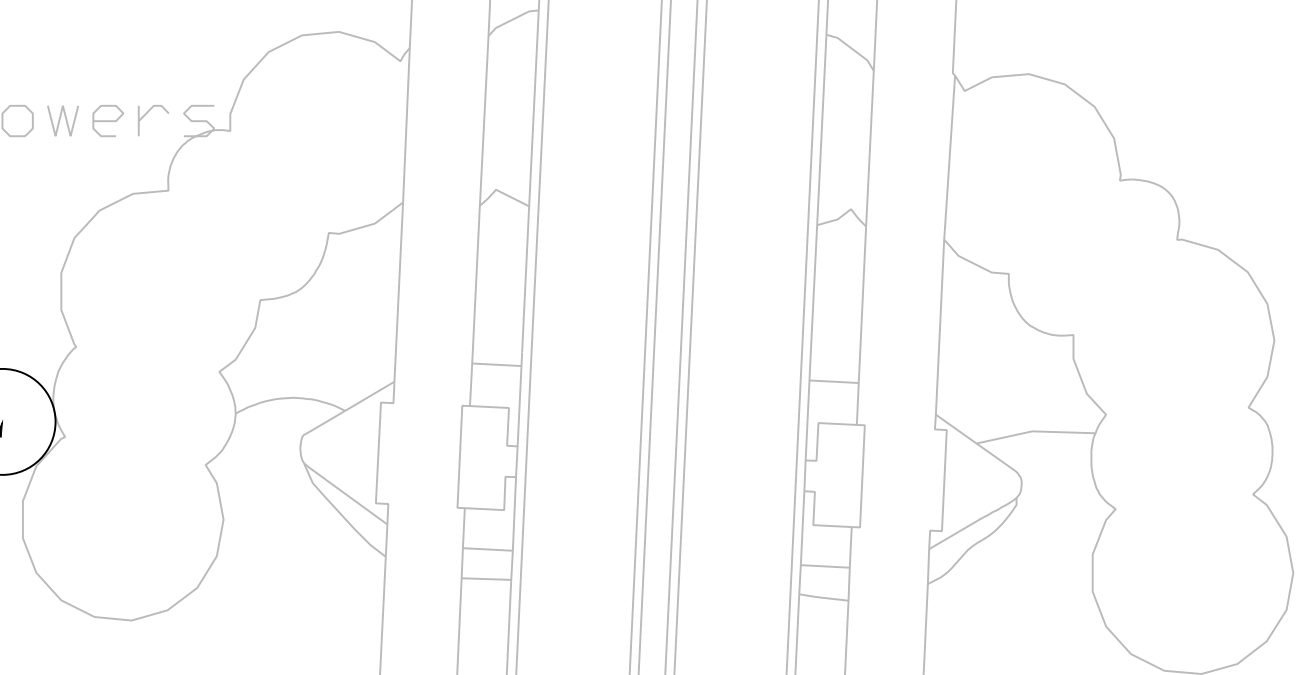
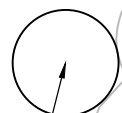


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Monitor No. M5

Proposed Monitoring Hydrophone.



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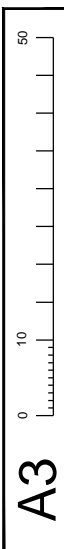
Title

Noise and Vibration Monitoring Locations
M5-South Bridge Leg

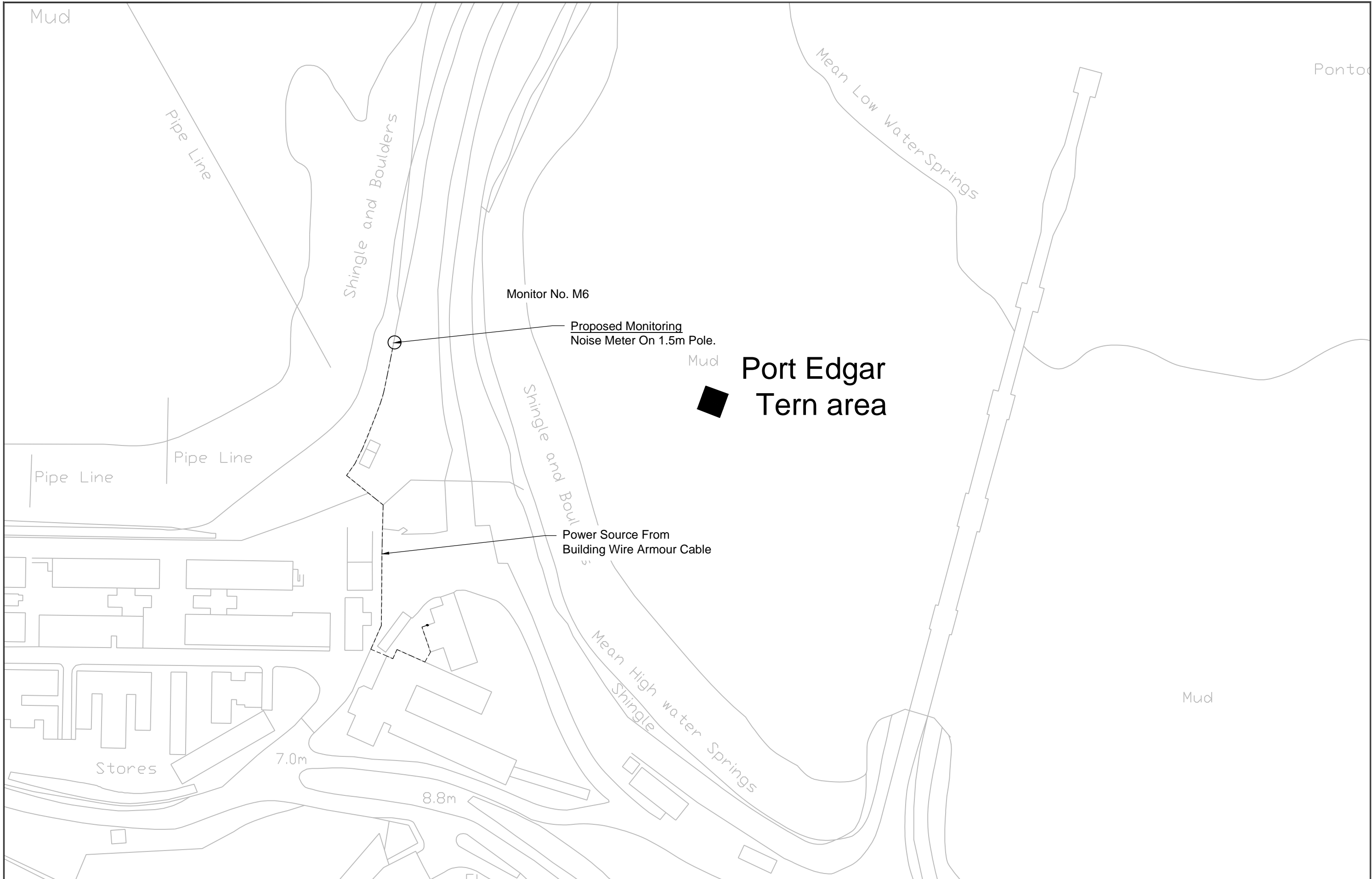
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Rev	
Drawing Number	
Status	

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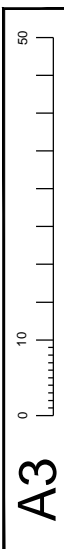
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Noise and Vibration Monitoring Locations
M6-Port Edgar

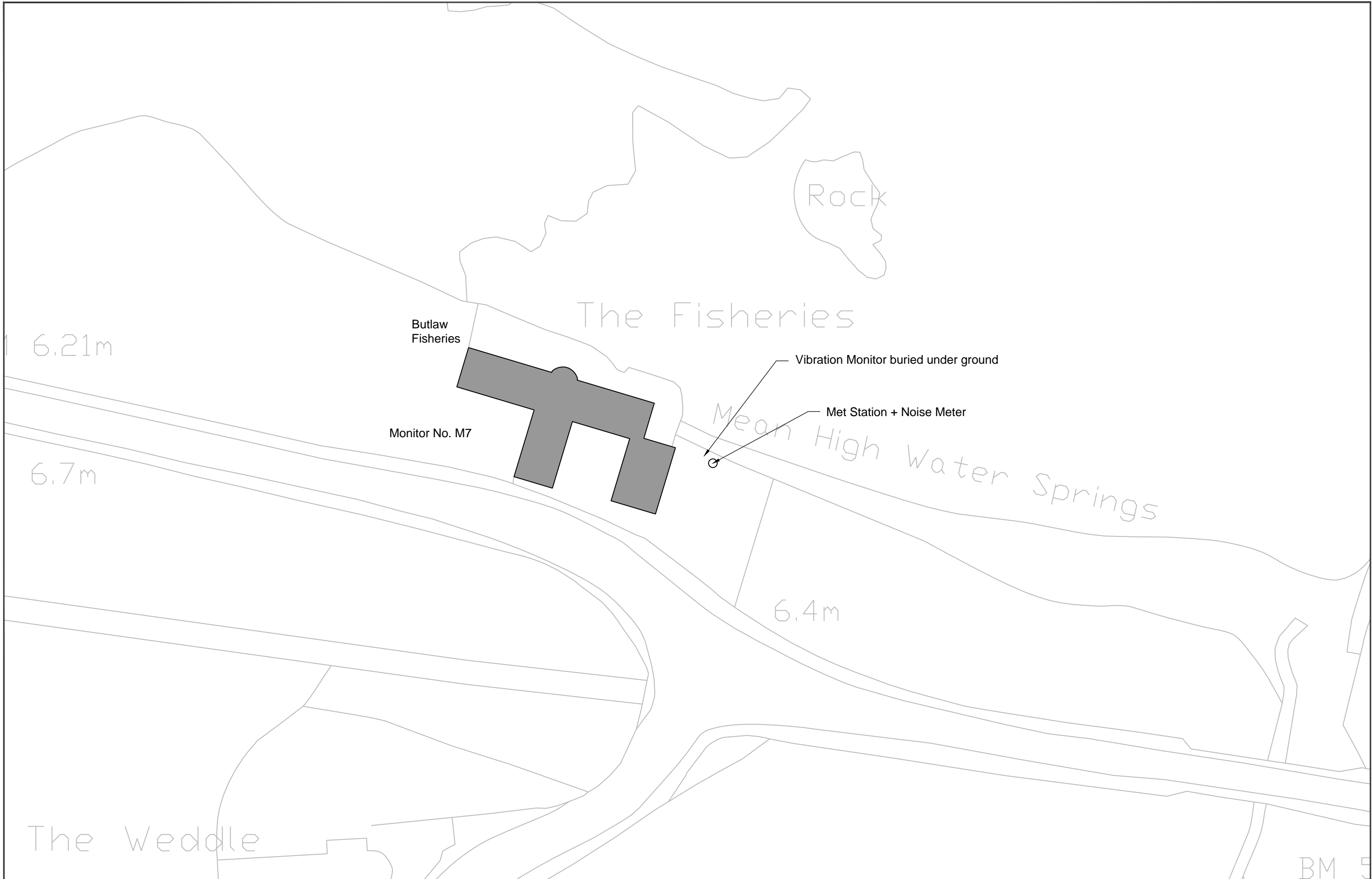
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Status	Drawing Number	Rev	
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Rev
Drawing Number
Status

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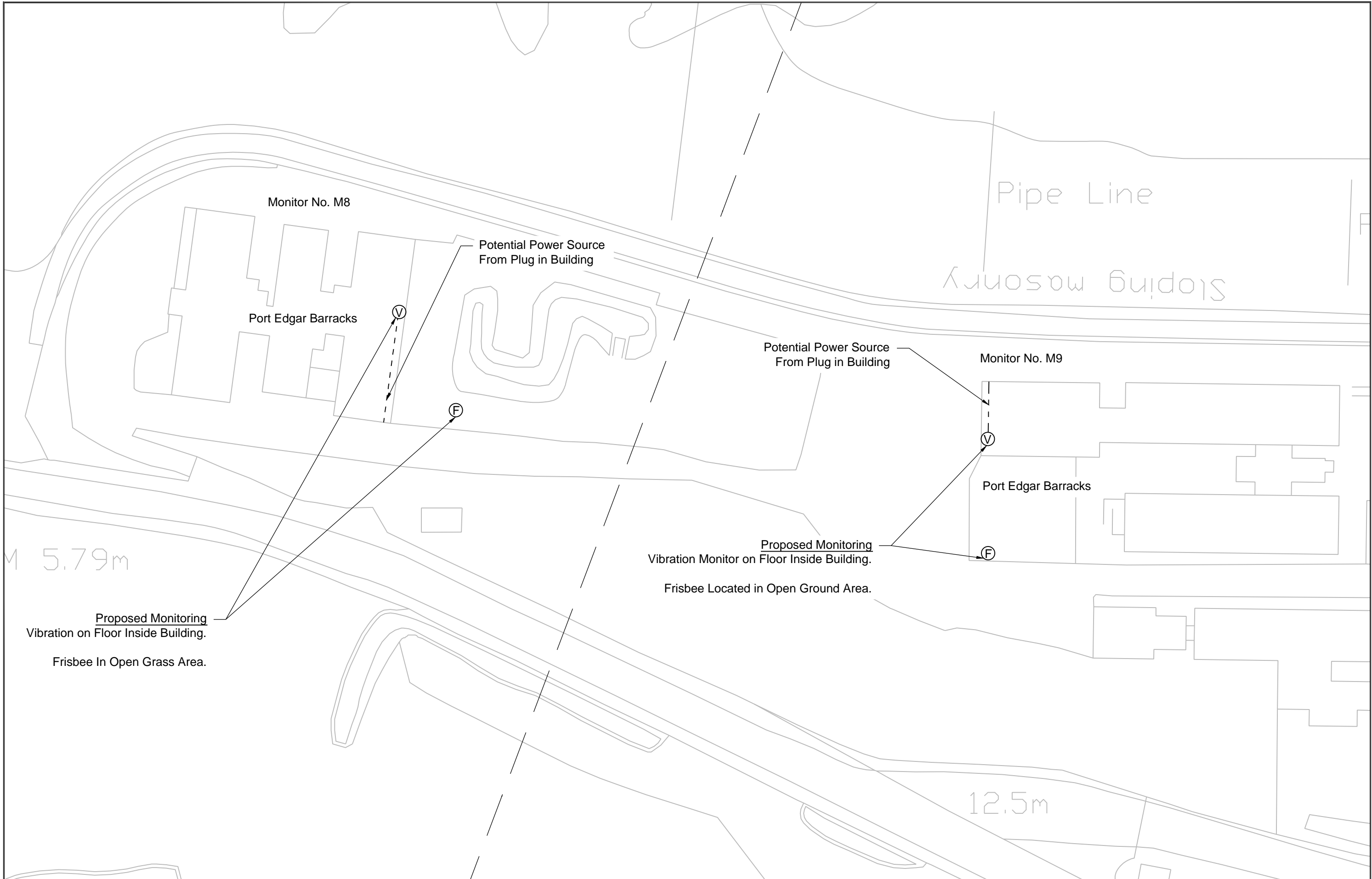
FORTH REPLACEMENT CROSSING

Title

Noise and Vibration Monitoring Locations
M7-Butlaw Fisheries

Original Scale	Designed/Drawn	Checked	Authorised
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Date	Date	Date	Date
05/08/2011	05/08/2011	05/08/2011	05/08/2011
Status	Drawing Number	Rev	
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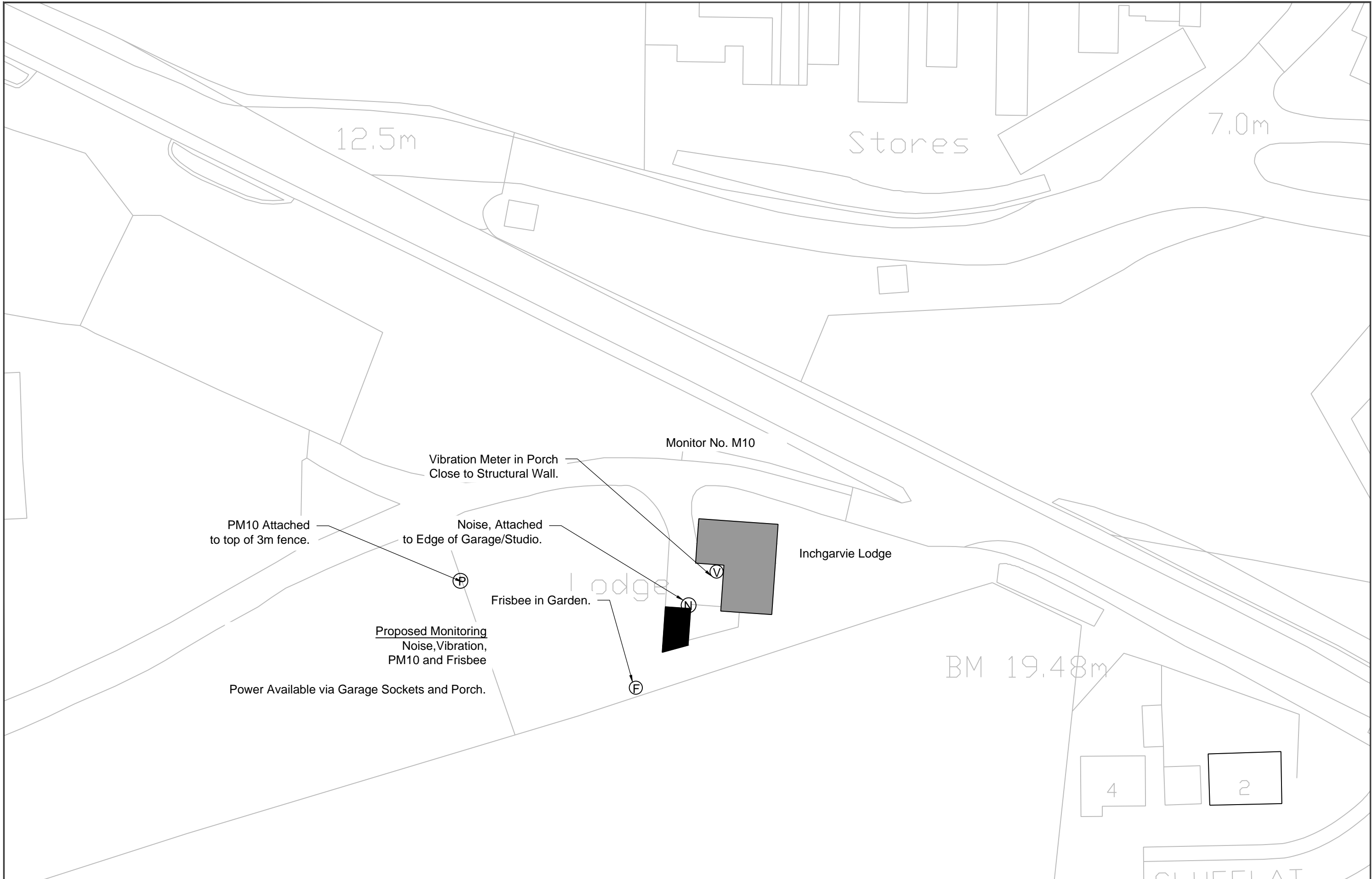
FORTH REPLACEMENT CROSSING

Title

Noise and Vibration Monitoring Locations
M8 & M9-Port Edgar Barracks

Original Scale	Designed/Drawn	Checked	Authorised
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Date	Date	Date	Date
05/08/2011	05/08/2011	05/08/2011	05/08/2011
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DO NOT SCALE



Rev	Description	By	Date	Chk'd	Auth

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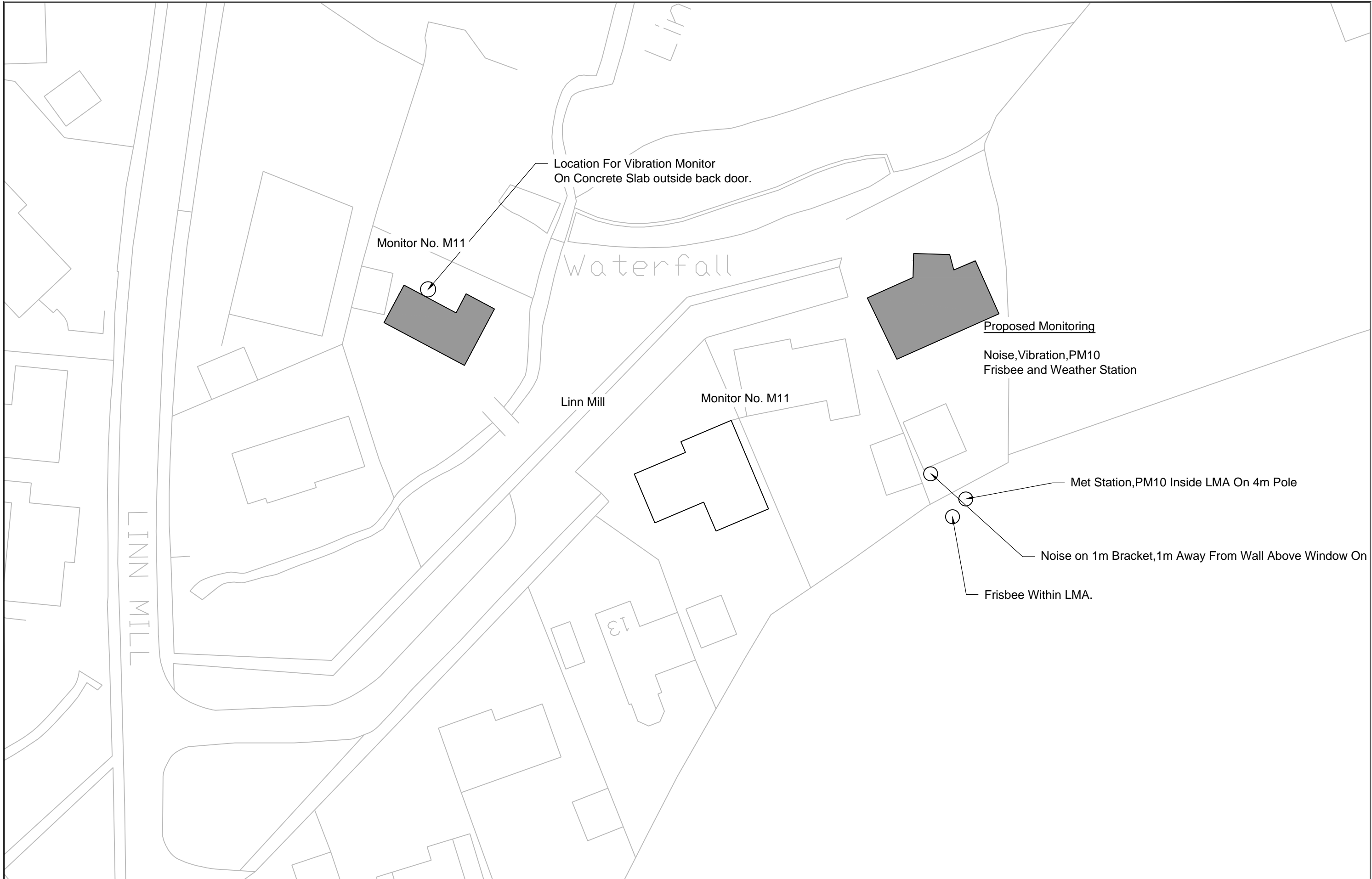


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Title Noise and Vibration Monitoring Locations M10-Inchgarvie Lodge			
Original Scale 1:500@A3	Designed/Drawn C.SMITH	Checked C.RIDDICK	Authorised M.BROWNSTONE
Status R	Drawing Number FCBC-M10-Figure 1	Rev 0	

DO NOT SCALE



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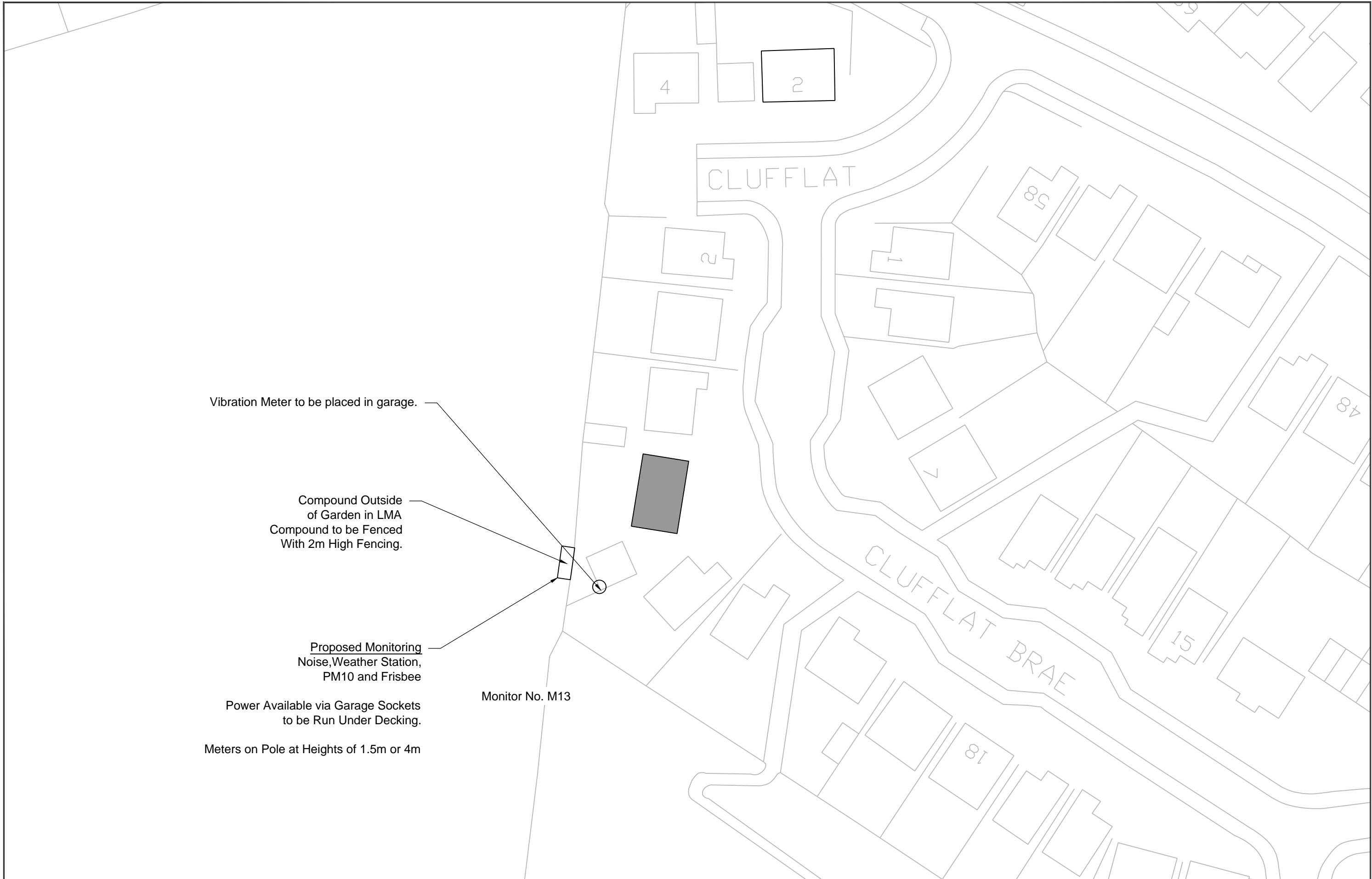
FORTH REPLACEMENT CROSSING

Title

PCNV Noise and Vibration Monitoring Locations M11-Linn Mill

Original Scale	Designed/Drawn	Checked	Authorised
1:500@A3	C.SMITH	C.RIDDICK	M.BROWNSTONE
Date	Date	Date	Date
05/08/2011	05/08/2011	05/08/2011	05/08/2011
Status	Drawing Number	Rev	
R	FCBC-M11-Figure 1	0	

DO NOT SCALE



Rev	Description	By	Date	Chk'd	Auth

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Title

Noise and Vibration Monitoring Locations
M13-Clufflat Brae

Original Scale	Designed/Drawn	Checked	Authorised
1:500@A3	C.SMITH	C.RIDDICK	M.BROWNSTONE
Date	Date	Date	Date
05/08/2011	05/08/2011	05/08/2011	05/08/2011
Status	Drawing Number	Rev	
R	FCBC-M13-Figure 1	0	

DO NOT SCALE



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Client



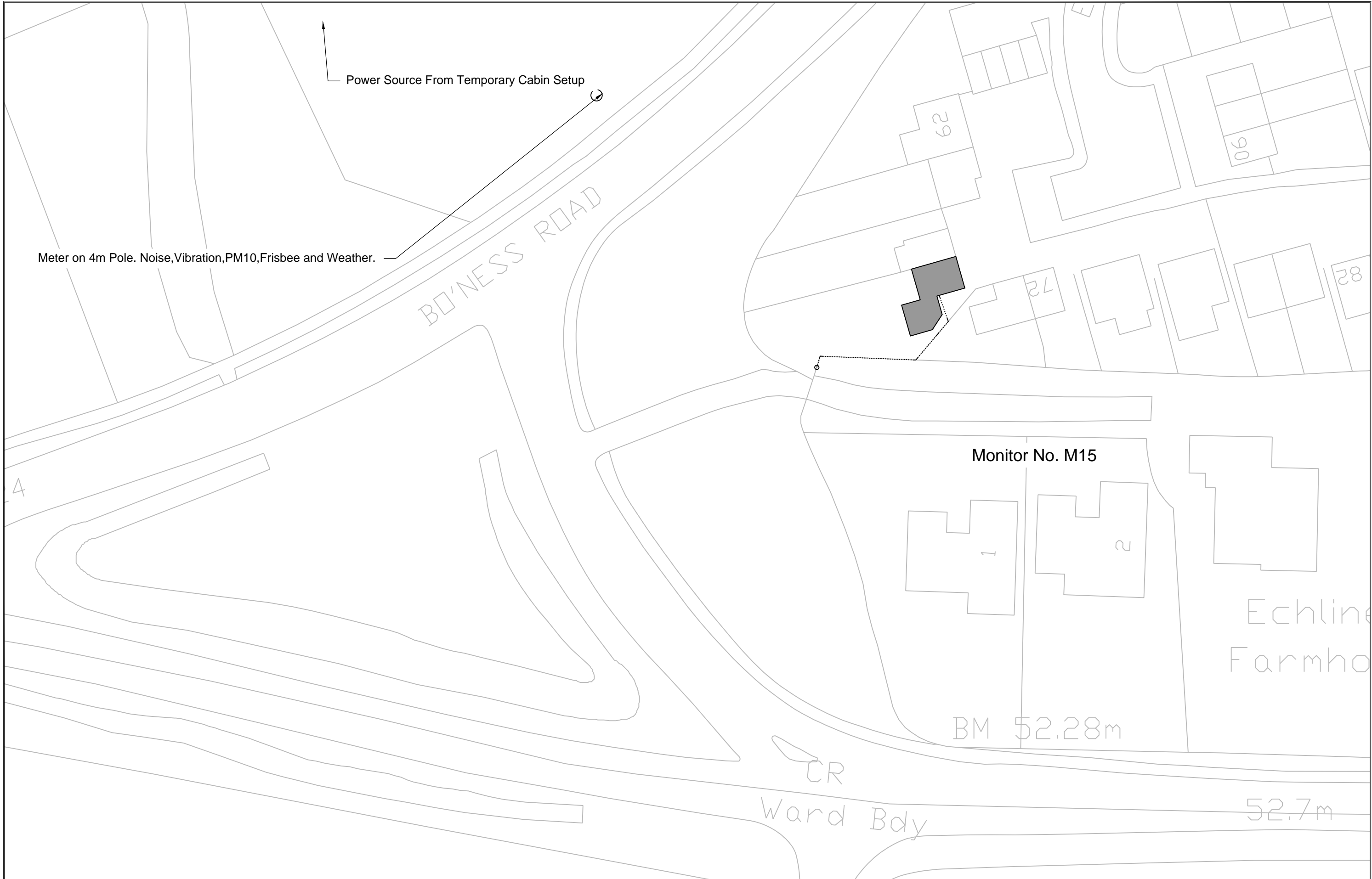
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Title
**Noise and Vibration Monitoring Locations
M14-Springfield Place**

Original Scale 1:500@A3	Designed/Drawn C.SMITH	Checked C.RIDDICK	Authorised M.BROWNSTONE
Date 05/08/2011	Date 05/08/2011	Date 05/08/2011	Date 05/08/2011
Status R	Drawing Number FCBC-M14-FIGURE 1	Rev 0	

DO NOT SCALE



Rev	Description	By	Date	Chk'd	Auth

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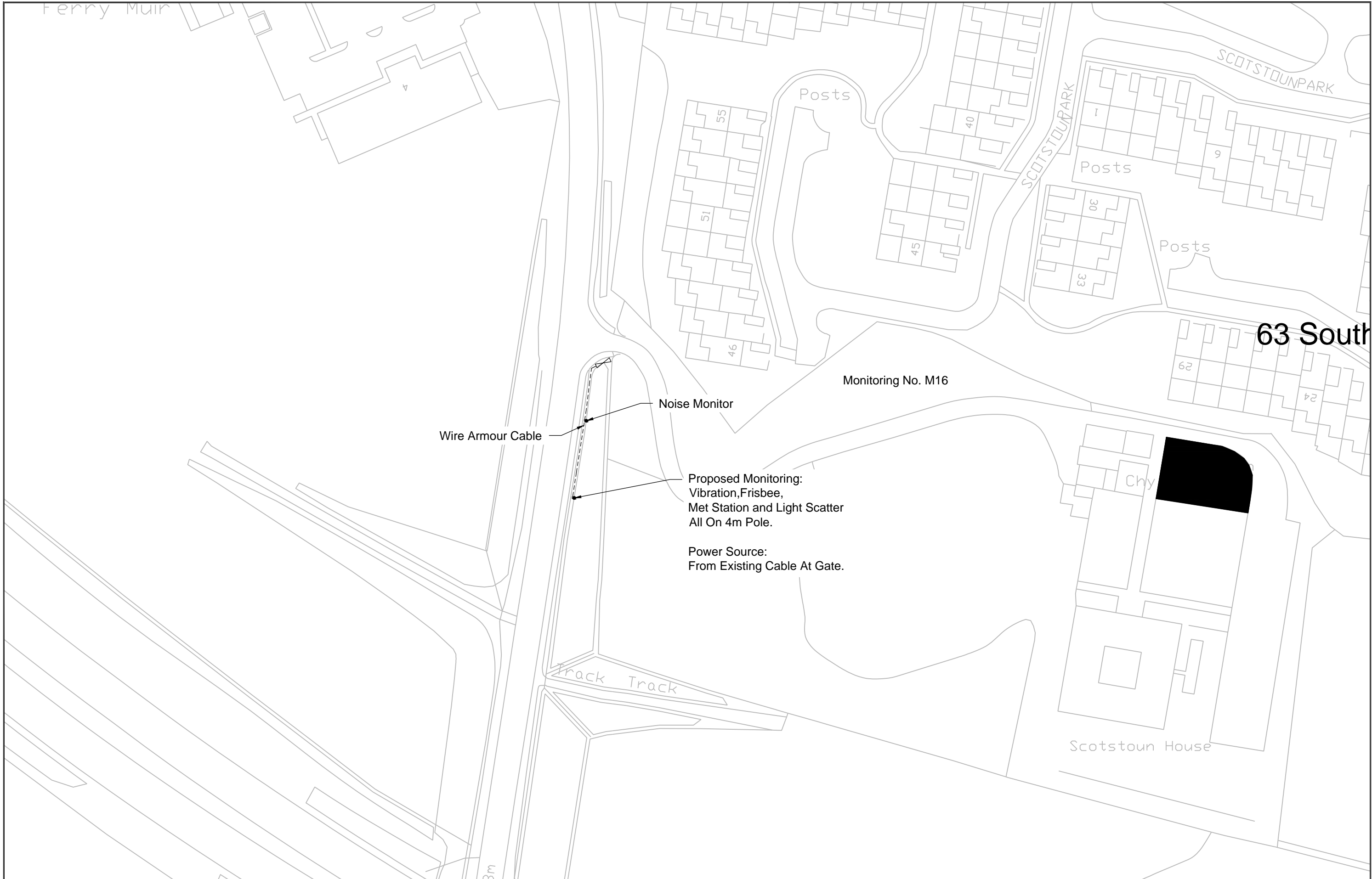
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Title

PCNV
Noise and Vibration Monitoring
Locations
M15 TEMP-Echline

Original Scale	Designed/Drawn	Checked	Authorised
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Date	Date	Date	Date
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Status	Drawing Number	Rev	
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DO NOT SCALE



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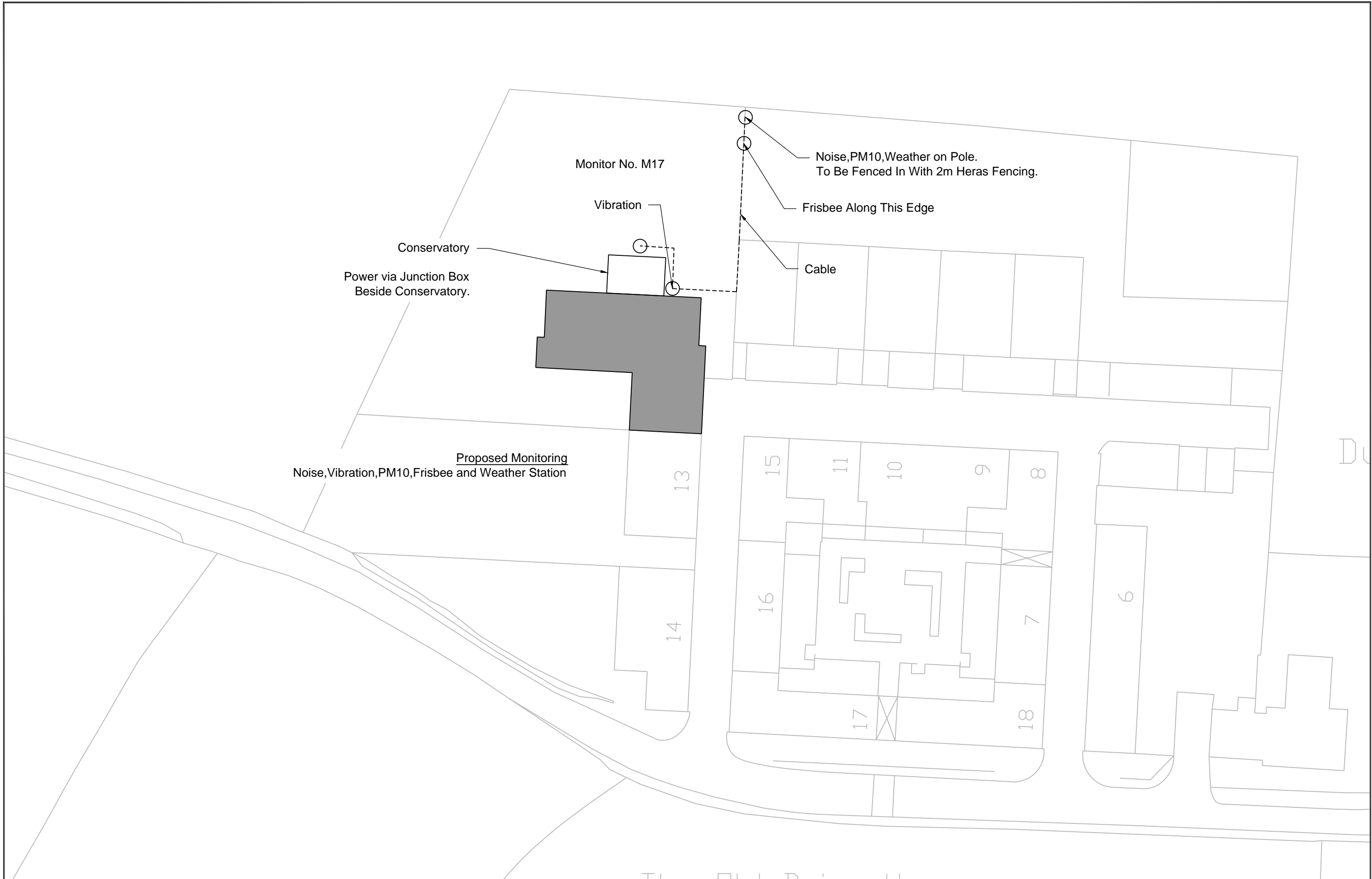
FORTH REPLACEMENT CROSSING

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Noise and Vibration Monitoring Locations M16-Scotstoun Park

Original Scale	Designed/Drawn	Checked	Authorised
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Date	Date	Date	Date
05/08/2011	05/08/2011	05/08/2011	05/08/2011
Status	Drawing Number	Rev	
R	FCBC-M16-Figure 1	0	

DO NOT SCALE



Rev	Description	By	Date	Chk'd	Auth

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Title

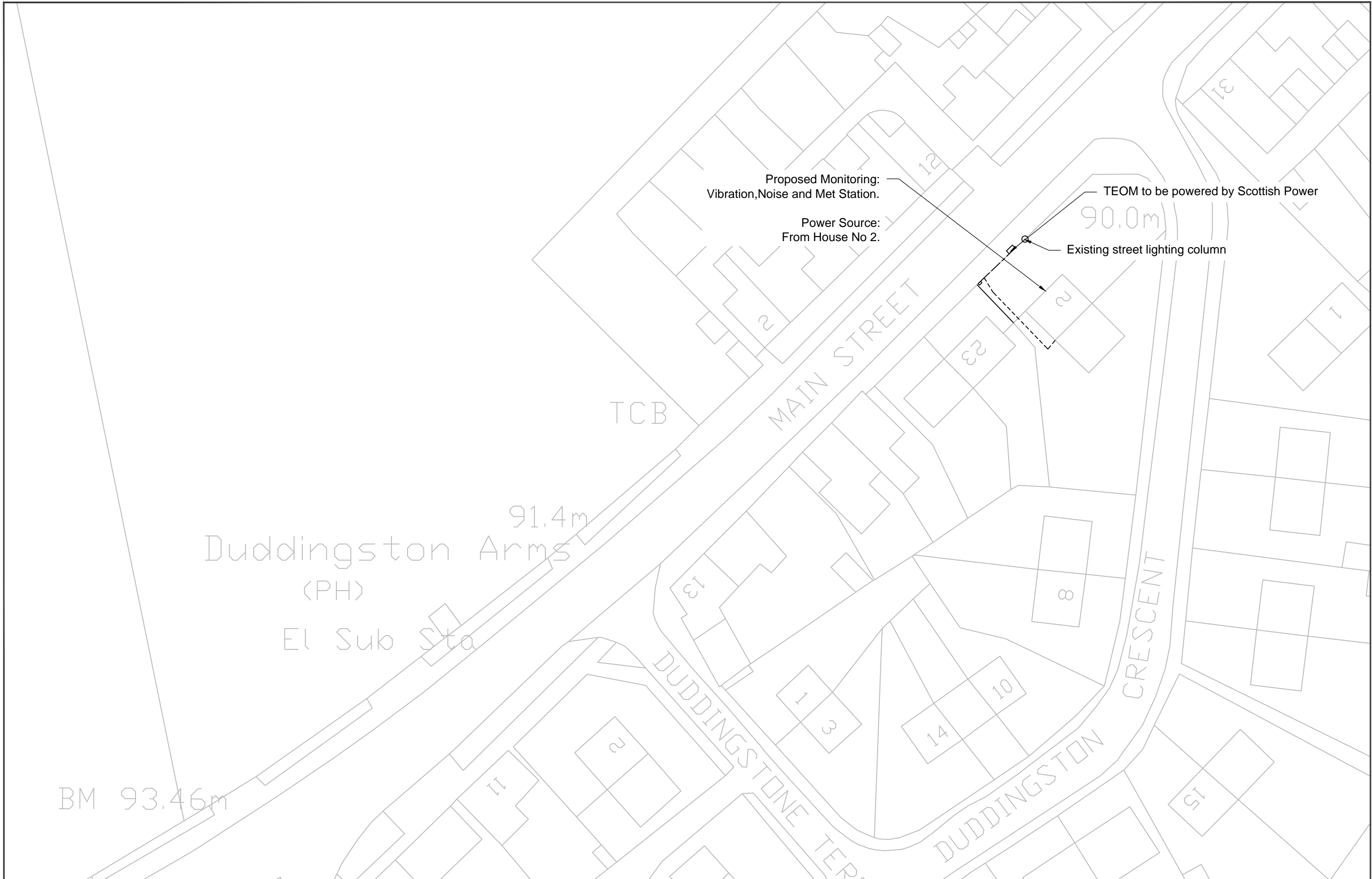
Noise and Vibration Monitoring Locations
M17-Dundas Home Farm

Original Scale	Designed/Drawn	Checked	Authorised
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Date	Date	Date	Date
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A3
0 10 50

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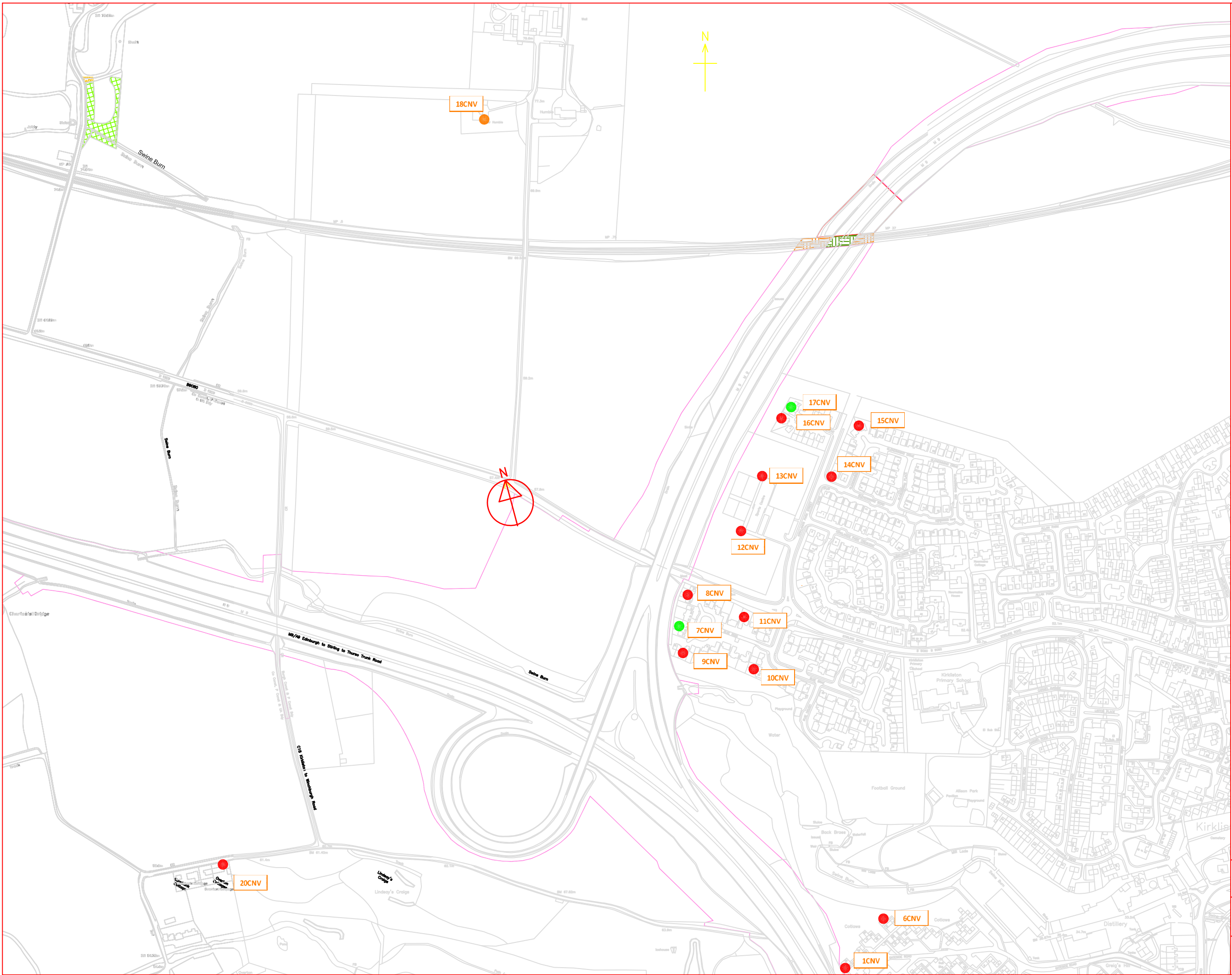
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Title

Concrete Plinth M18-Newton

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Date 09/01/2012	Date 09/01/2012	Date 09/01/2012	Date 09/01/2012
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**APPENDIX B – M9 J1A CONTRACT CONSTRUCTION NOISE MONITORING
LOCATIONS**

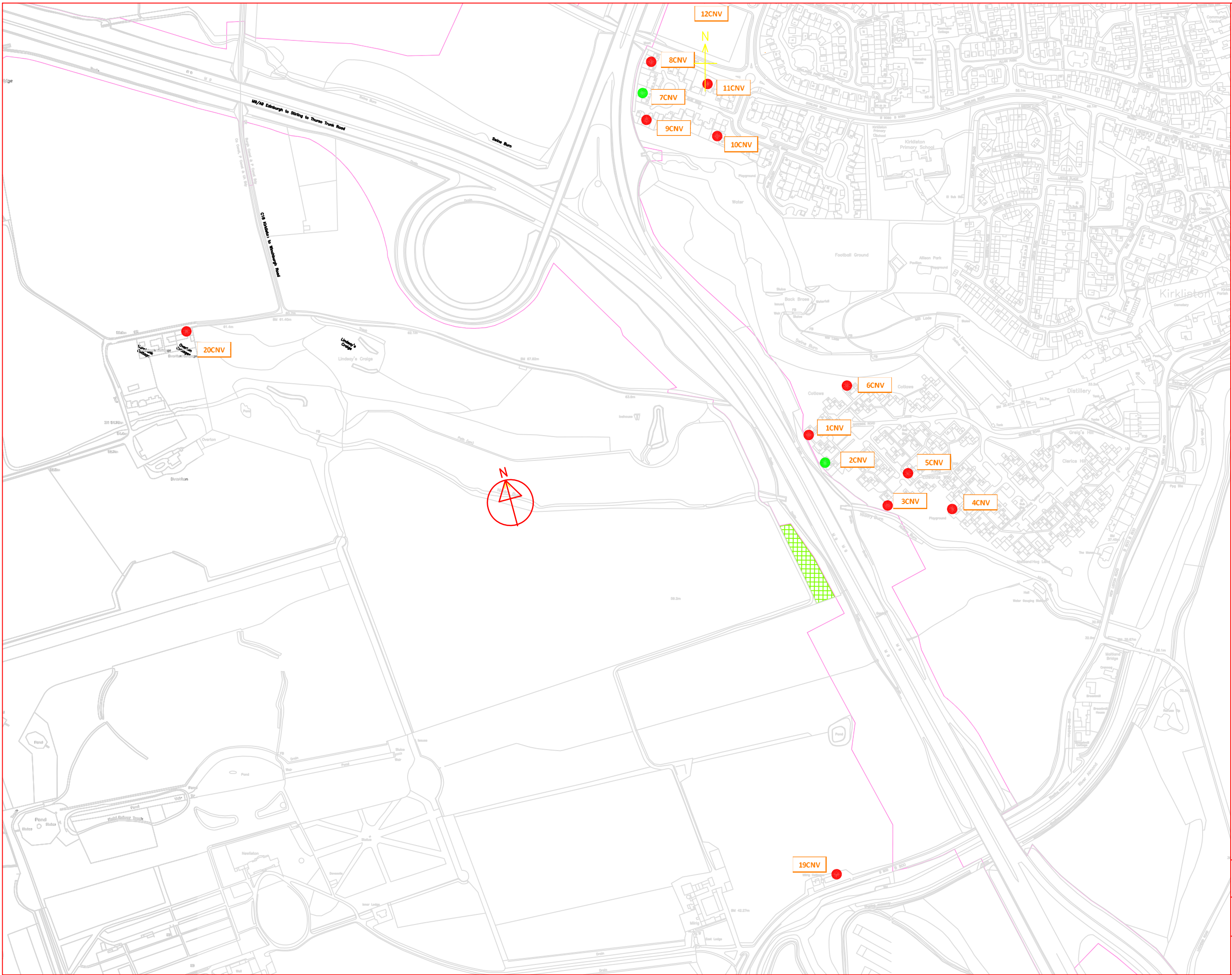


- Static Noise and Vibration Monitoring
- Mobile Noise and Vibration Monitoring

Sensitive Receptor Locations for M9J1a Contract

Date: 21-08-11

SSK - SRL-01



- Static Noise and Vibration Monitoring
- Mobile Noise and Vibration Monitoring

Sensitive Receptor Locations for M9J1a Contract

Date: 22-08-11

SSK - SRL 002