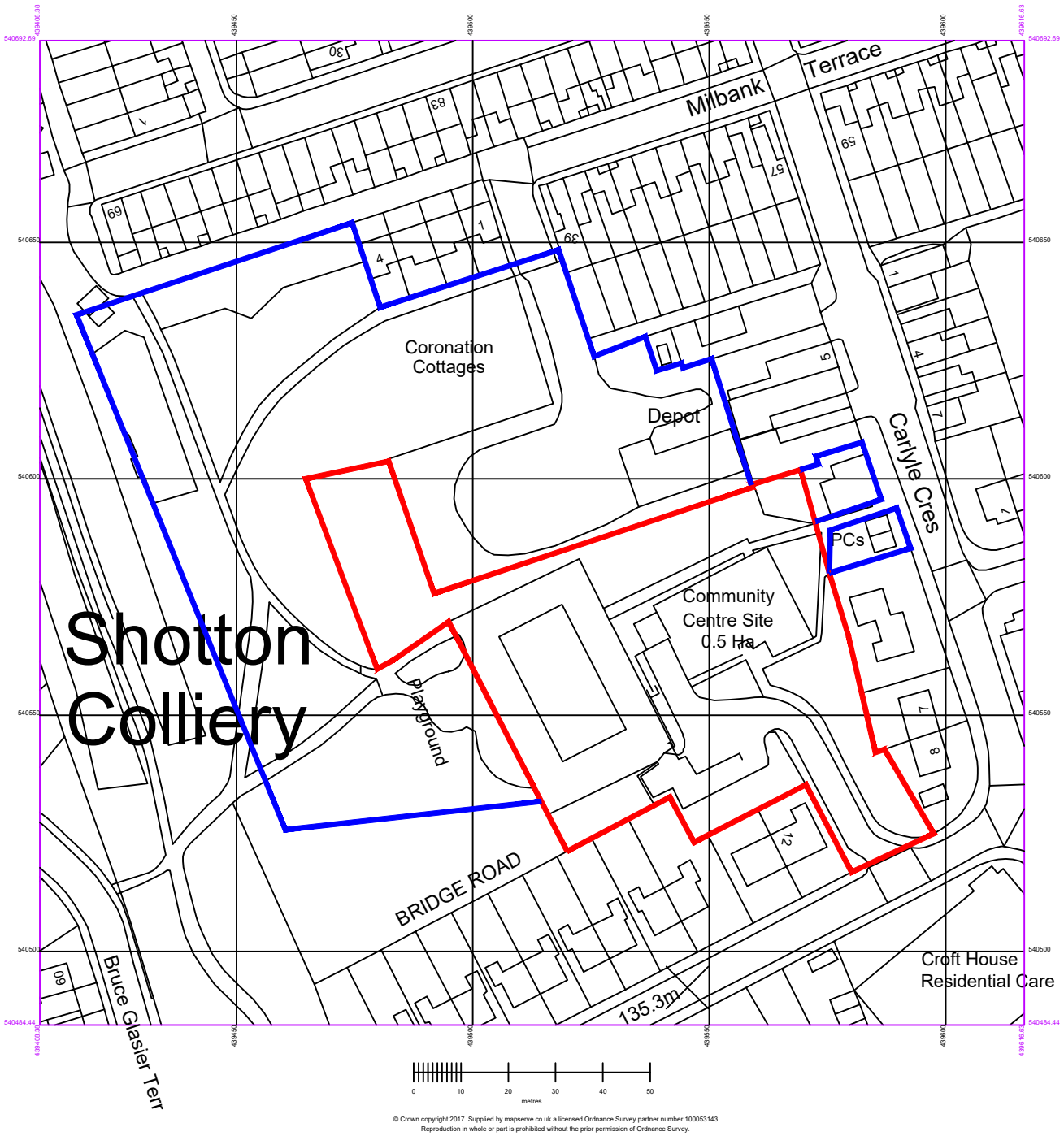

SHOTTON COLLIERY COMMUNITY CENTRE

Date		Rev
31-01-19	Issued for Tender	T

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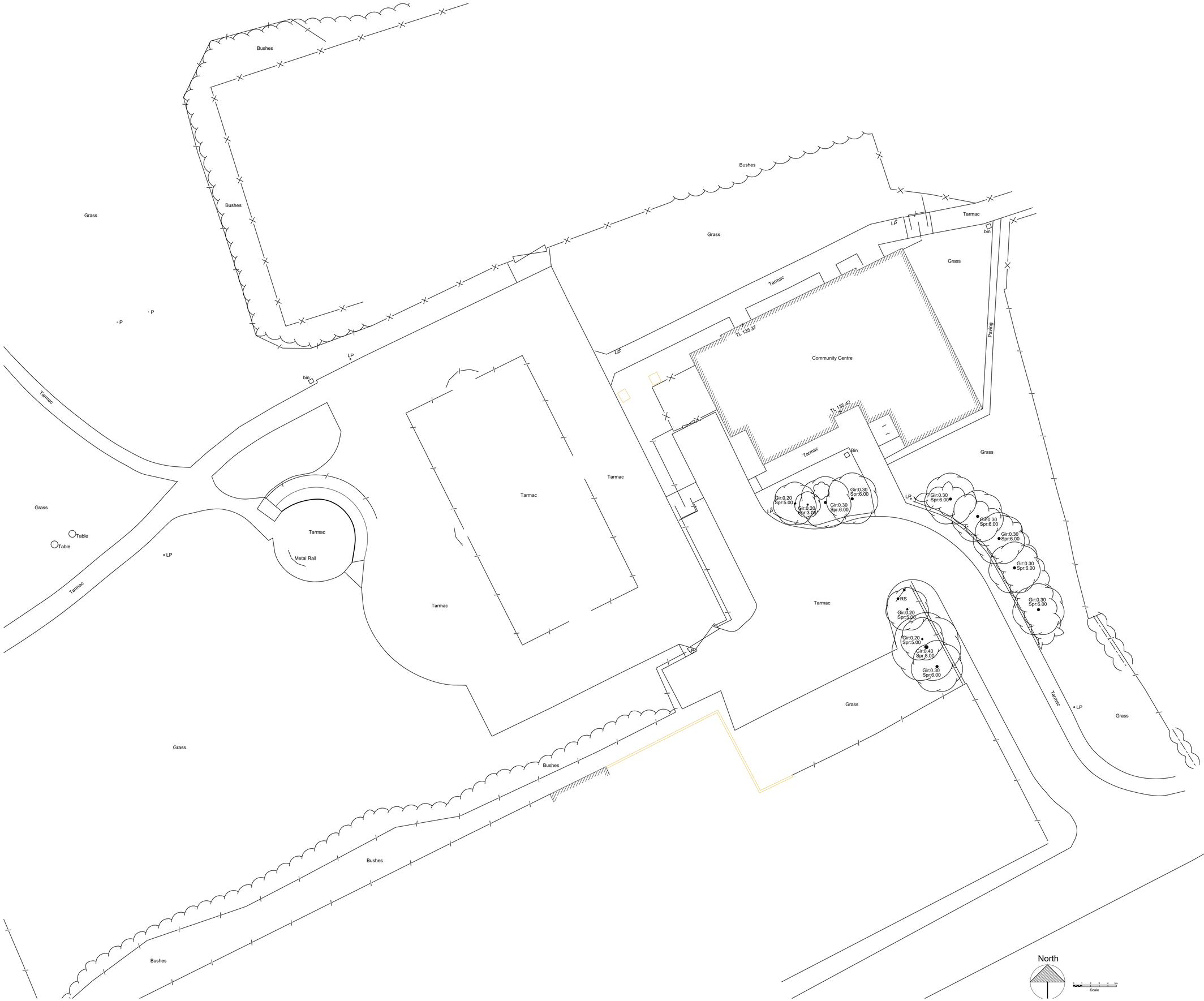
Drg. No. 1442/L(-1)01 Scale: 1/1250@A4 November 2017



NOTES.

1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES (m) ABOVE ORDNANCE DATUM.
3 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING.

Rev.	Date	Details	App'd
T	31-01-19	Issued for Tender	MD

PROJECT TITLE:

SHOTTON COMMUNITY CENTRE

DRAWING TITLE:

Existing Site Plan

CLIENT:

Shotton Parish Council

STATUS: TENDER

Design: SGeo	CAD: WS
Chk'd: MRD	App'd: MRD
Date: 25.07.18	Scale: 1:200 @A1

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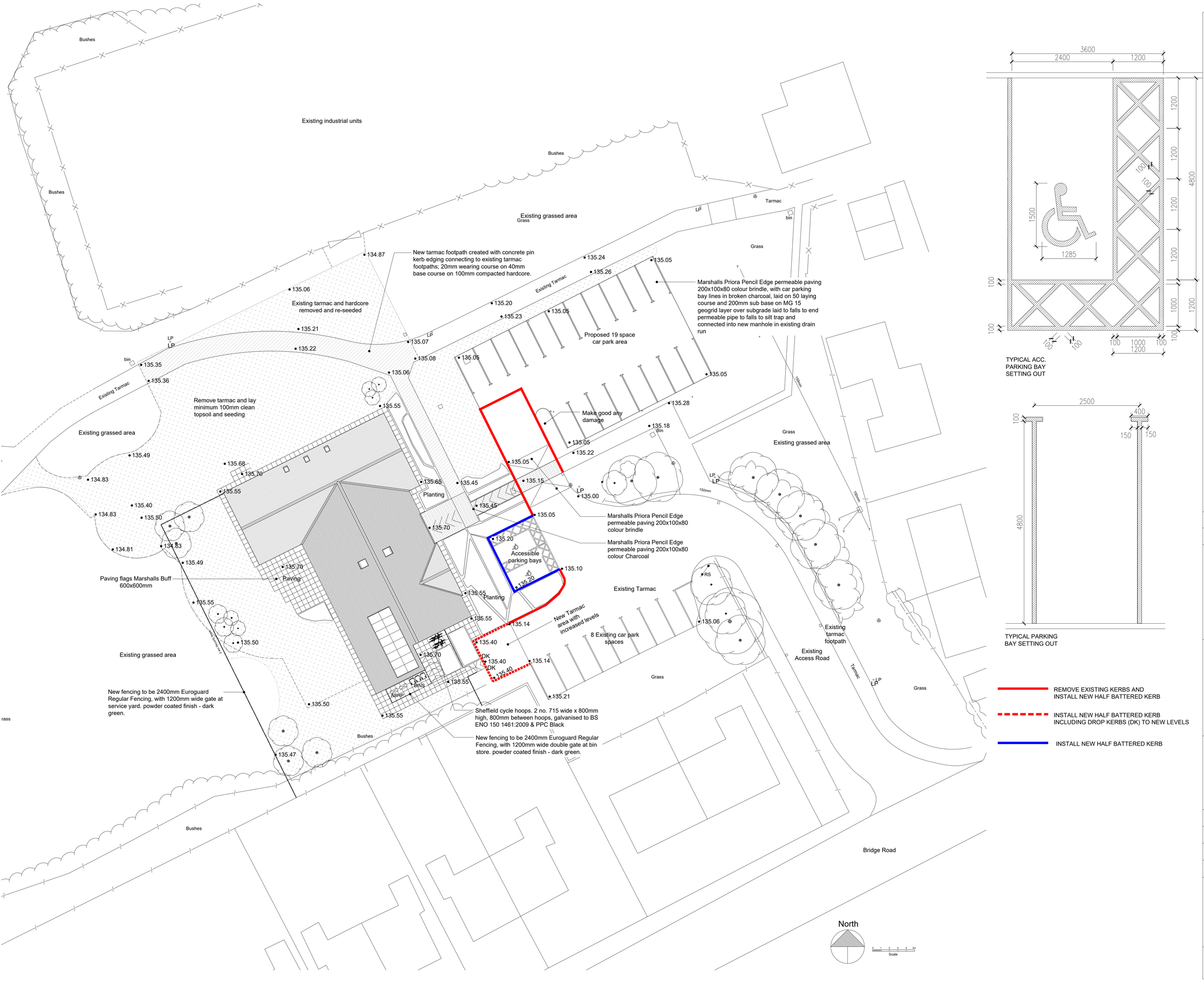
Project no:	Drg no:	Rev:
1442	L(-1)02	T



TYPICAL ACC.
PARKING BAY
SETTING OUT

TYPICAL PARKING
BAY SETTING OUT

REMOVE EXISTING KERBS AND INSTALL NEW HALF BATTERED KERB

INSTALL NEW HALF BATTERED KERB INCLUDING DROP KERBS (DK) TO NEW LEVELS

INSTALL NEW HALF BATTERED KERB

NOTES.

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2. ALL LEVELS ARE IN METRES (m) ABOVE ORDNANCE DATUM.
3 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING.

Rev.	Date	Details	App'd
T	28-01-19	TENDER ISSUE	MD

PROJECT TITLE:

SHOTTON COMMUNITY CENTRE

DRAWING TITLE:

PROPOSED SITE PLAN

CLIENT:

Shotton Parish Council

STATUS: TENDER

Design: SGeo	CAD: WS
Chk'd: MRD	App'd: MRD
Date: 31.01.19	Scale: 1:200 @A1

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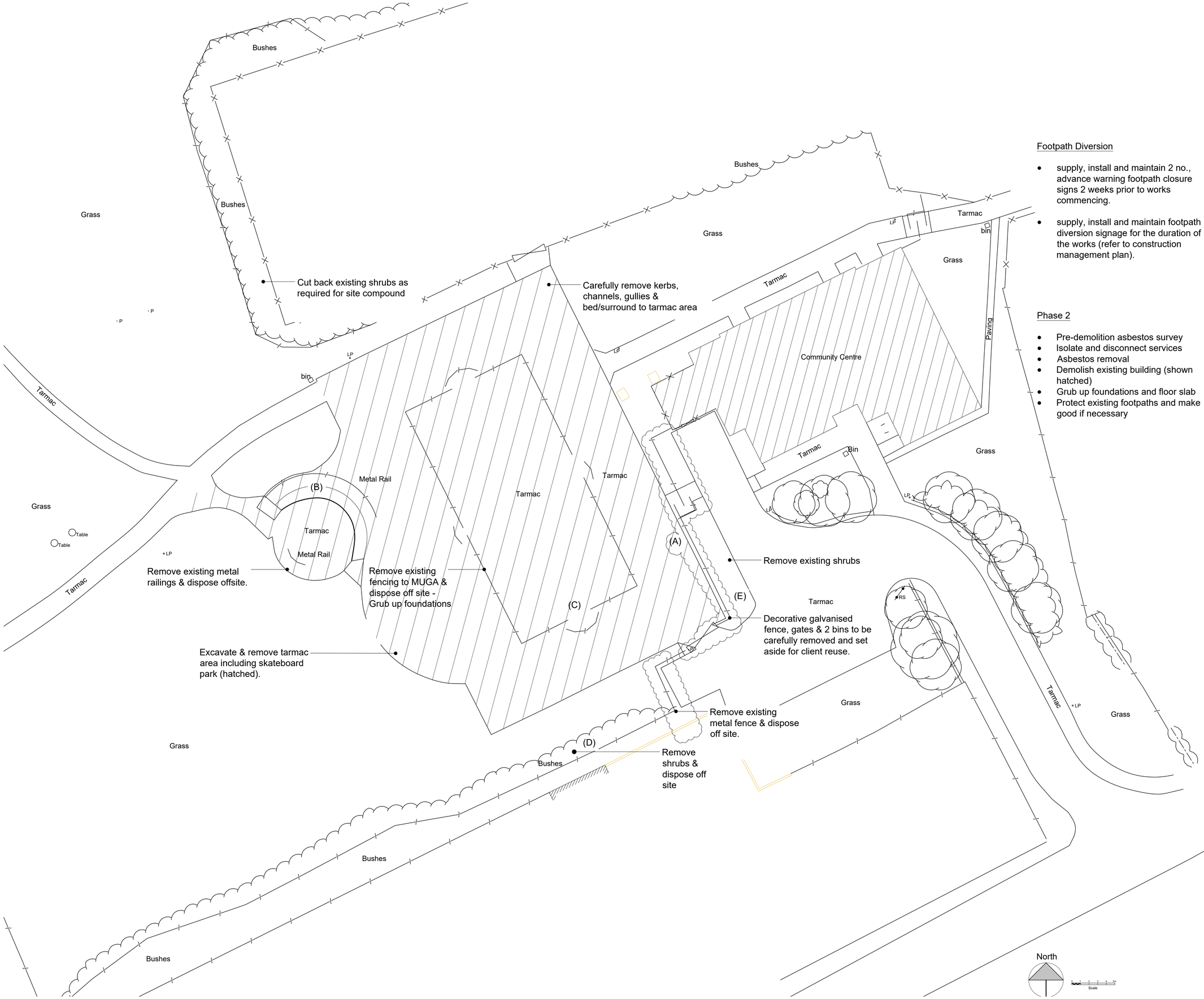
Project no:	Drg no:	Rev:
1442	L(92)001	T



Footpath Diversion

- supply, install and maintain 2 no., advance warning footpath closure signs 2 weeks prior to works commencing.
- supply, install and maintain footpath diversion signage for the duration of the works (refer to construction management plan).

Phase 2

- Pre-demolition asbestos survey
- Isolate and disconnect services
- Asbestos removal
- Demolish existing building (shown hatched)
- Grub up foundations and floor slab
- Protect existing footpaths and make good if necessary

NOTES.

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2. ALL LEVELS ARE IN METRES (m) ABOVE ORDNANCE DATUM.
3 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING.

Rev.	Date	Details	App'd
T	31-01-19	Issued for Tender	CJW

PROJECT TITLE:

SHOTTON COMMUNITY CENTRE

DRAWING TITLE:

Phase 1 and Phase 2

Enabling Works

CLIENT:

Shotton Parish Council

STATUS: TENDER

Design: CJW	CAD: CJW
Chk'd: MRD	App'd: MRD
Date: 25.07.18	Scale: 1:200 @A1

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Project no:	Drg no:	Rev:
1442	L(-1)102	T

NOTES.

1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES (m) ABOVE ORDNANCE DATUM.
3 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING.

Rev.	Date	Details	App'd
T	05-02-19	Issued for Tender	CJW

PROJECT TITLE:

SHOTTON COMMUNITY CENTRE

DRAWING TITLE:

UTILITY CONNECTIONS

PROPOSED PLANS

CLIENT:

Shotton Parish Council

STATUS: TENDER

Design: CJW	CAD: CJW
Chk'd: MRD	App'd: MRD
Date: 25.07.18	Scale: 1:200 @A1

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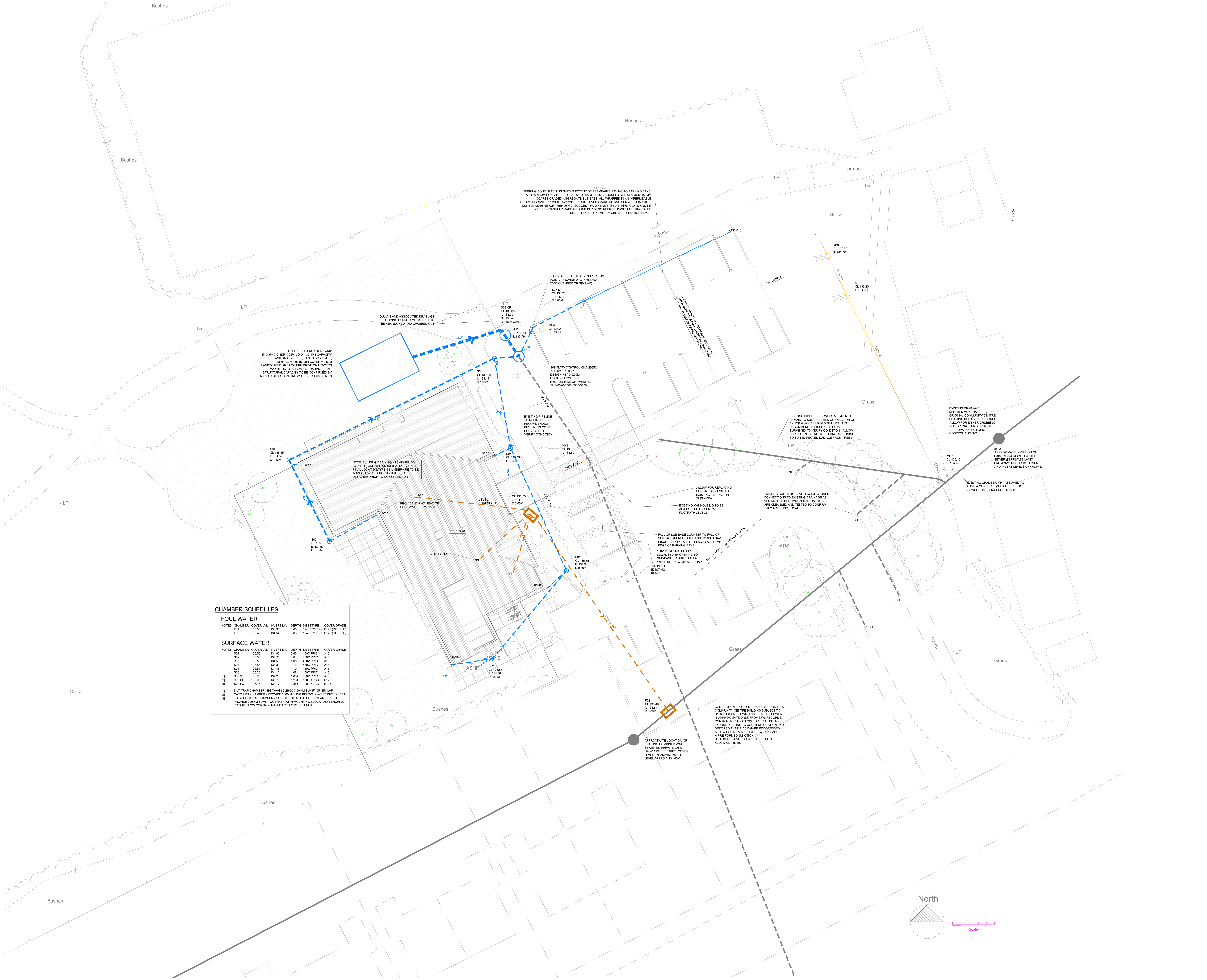
Project no:	Drg no:	Rev:
1442	L(-1)104	T



CHAMBER SCHEDULES

FOUL WATER

NOTES	CHAMBER	COVER LVL	INVERT LVL	DEPTH	SIZE&TYPE	COVER GRADE
	F01	135.55	134.90	0.65	1240*675 BRK	B125 (DOUBLE)
	F02	135.40	134.54	0.86	1240*675 BRK	B125 (DOUBLE)

SURFACE WATER

NOTES	CHAMBER	COVER LVL	INVERT LVL	DEPTH	SIZE&TYPE	COVER GRADE
	S01	135.55	134.90	0.65	450Ø PPIC	A15
	S02	135.55	134.71	0.84	450Ø PPIC	A15
	S03	135.55	134.50	1.05	450Ø PPIC	A15
	S04	135.55	134.39	1.16	450Ø PPIC	A15
	S05	135.55	134.45	1.10	450Ø PPIC	A15
	S06	135.20	134.12	1.08	450Ø PPIC	A15
[1]	S07 ST	135.20	134.20	1.00+	500Ø PPIC	A15
[2]	S08 CP	135.05	133.79	1.26+	1200Ø PCC	B125
[3]	S09 FC	135.15	133.77	1.38+	1200Ø PCC	B125

[1] SILT TRAP CHAMBER - EG WAVIN 6LB600 (450MM SUMP) OR SIMILAR
[2] CATCH PIT CHAMBER - PROVIDE 300MM SUMP BELOW LOWEST PIPE INVERT
[3] FLOW CONTROL CHAMBER - CONSTRUCT AS CATCHPIT CHAMBER BUT PROVIDE 320MM SUMP TOGETHER WITH MOUNTING BLOCK AND BENCHING TO SUIT FLOW CONTROL MANUFACTURER'S DETAILS

NOTES.

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2. ALL LEVELS ARE IN METRES (m) ABOVE ORDNANCE DATUM.
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Rev.	Date	Details	App'd
T	29-01-19	Issued for Tender	CJW

PROJECT TITLE:

SHOTTON COMMUNITY CENTRE

DRAWING TITLE:

Proposed Drainage Plan

CLIENT:

Shotton Parish Council

STATUS: TENDER

Design: CJW	CAD: CJW
Chk'd: MRD	App'd: MRD
Date: 25.07.18	Scale: 1:200 @A1

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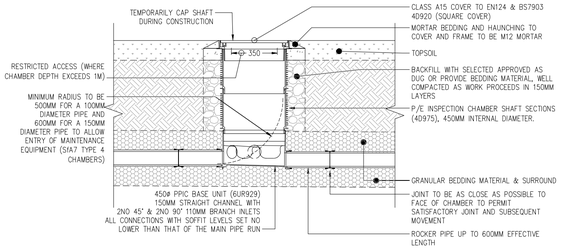
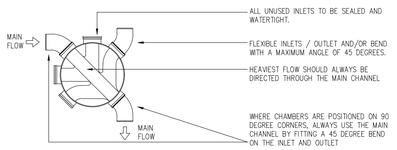
Project no:	Drg no:	Rev:
1442	L(-1)105	T

POLYPROPYLENE INSPECTION CHAMBERS – OSMA 450ø UNIVERSAL IC (WAVIN)
DEPTHS UP TO 1.2M, 100ø/150ø PIPES

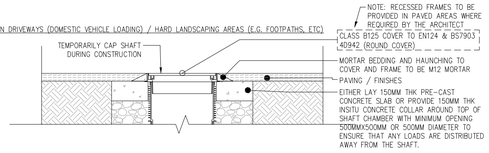
SITED IN SOFT LANDSCAPED AREAS



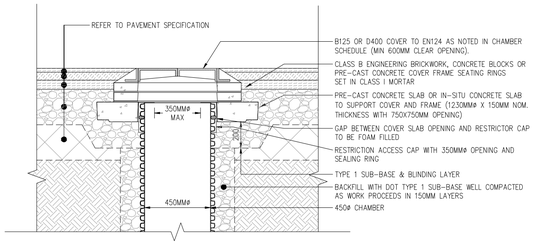
PLAN ON PPIC BASE



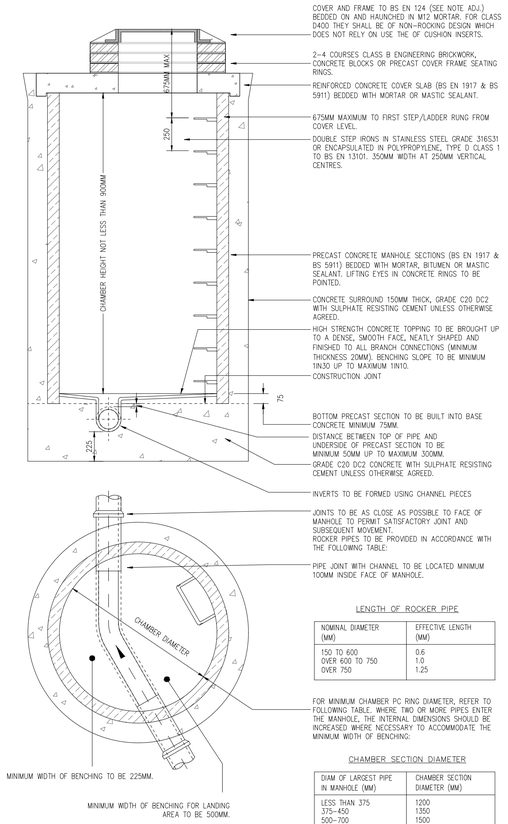
SITED IN DRIVEWAYS (DOMESTIC VEHICLE LOADING) / HARD LANDSCAPING AREAS (E.G. FOOTPATHS, ETC)



SITED IN MAIN VEHICLE ROUTES



PRECAST CONCRETE MANHOLE CHAMBERS
[DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE UP TO 3.00M]



LENGTH OF ROCKER PIPE

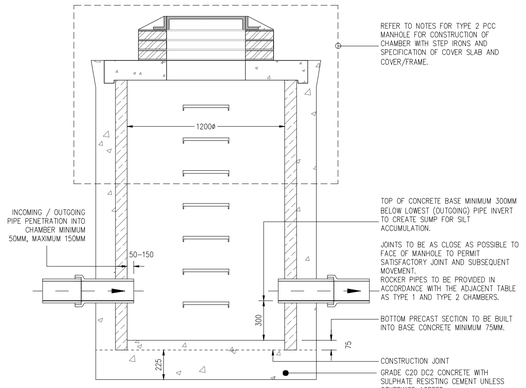
NOMINAL DIAMETER (MM)	EFFECTIVE LENGTH (MM)
150 TO 600	0.6
OVER 600 TO 750	1.0
OVER 750	1.25

FOR MINIMUM CHAMBER PC RING DIAMETER, REFER TO FOLLOWING TABLE. WHERE TWO OR MORE PIPES ENTER THE MANHOLE, THE INTERNAL DIMENSIONS SHOULD BE INCREASED WHERE NECESSARY TO ACCOMMODATE THE MINIMUM WIDTH OF BENCHING:

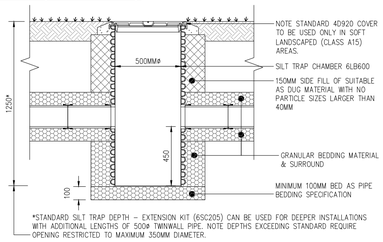
CHAMBER SECTION DIAMETER

DIAM OF LARGEST PIPE IN MANHOLE (MM)	CHAMBER SECTION DIAMETER (MM)
LESS THAN 375	1200
375–450	1350
500–700	1500
750–900	1800
GREATER THAN 900	PIPE DIAMETER + 900

PRECAST CONCRETE CATCHPIT CHAMBER
[DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE UP TO 2.00M, PIPE DIAMETER UP TO 375MM]

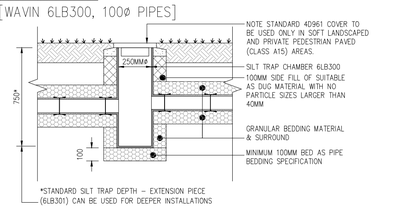


SILT TRAP (WAVIN 6LB600)



*STANDARD SILT TRAP DEPTH – EXTENSION KIT (6SC205) CAN BE USED FOR DEEPER INSTALLATIONS WITH ADDITIONAL LENGTHS OF 500ø TWINWALL PIPE. NOTE DEPTHS EXCEEDING STANDARD REQUIRE OPENING RESTRICTED TO MAXIMUM 350MM DIAMETER.

250ø SILT TRAP
[WAVIN 6LB300, 100ø PIPES]



*STANDARD SILT TRAP DEPTH – EXTENSION PIECE (6LB301) CAN BE USED FOR DEEPER INSTALLATIONS

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT PROJECT DRAWINGS (ARCHITECTURAL, M&E ETC).
3. ALL BELOW GROUND DRAINAGE WORKMANSHIP TO BE CARRIED OUT IN STRICT ACCORDANCE WITH BS 8000 'WORKMANSHIP OF BUILDING SITES, PART 14: CODE OF PRACTICE FOR BELOW GROUND DRAINAGE'.
4. EXACT LOCATIONS AND CURRENT USAGE OF ALL EXISTING DRAINAGE TO BE ESTABLISHED ON COMMENCEMENT OF ANY WORKS.
5. ALL NEW BELOW GROUND DRAINAGE WORKS TO BE INSPECTED AND APPROVED BY BUILDING CONTROL PRIOR TO BACKFILLING.

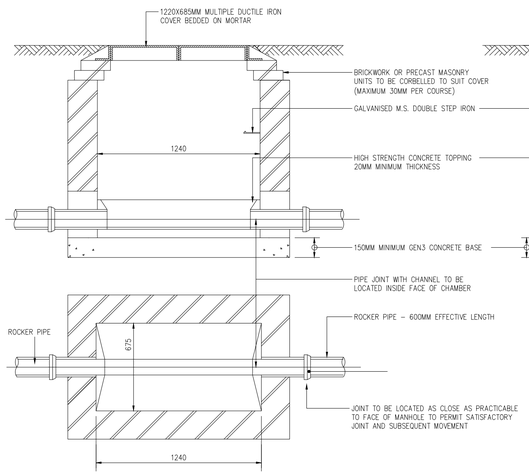
PIPEWORK:

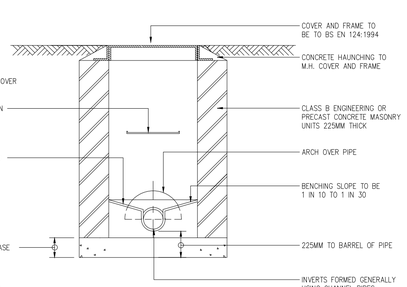
6. ALL PIPEWORK TO HAVE CLASS S GRANULAR BED AND SURROUND AS FOLLOWS (UNLESS REQUIRED OTHERWISE – REFER TO NOTE 9 BELOW).
   - BEDDING THICKNESS 150 MIN BELOW PIPE AND 100MM MIN BELOW SOCKETS TO BE LIGHTLY COMPACTED OVER FULL WIDTH OF TRENCH.
   - WHERE TRENCH BOTTOM IS UNEVEN DUE TO HARD SPOTS OR OTHER REASONS, INCREASE DEPTH BY 100MM, SCOOP OUT LOCALLY AT COUPLINGS / SOCKETS AND LAY PIPES DIGGING INTO BED AND RESTING UNIFORMLY ON THEIR BARRELS. ADJUST TO LINE AND GRADIENT.
   - AFTER INITIAL TESTING, LAY AND COMPACT MORE GRANULAR MATERIAL IN 100MM LAYERS TO 150MM (300MM FOR ADOPTABLE SEWERS) ABOVE CROWN OF PIPE.
   - GRANULAR MATERIAL TO WIS 4–08–01, TABLE A1 (RIGID PIPELINES), AND COMPLYING WITH WIS 4–08–02. RECYCLED MATERIALS COMPLYING WITH BS8500–2.
7. CONCRETE SURROUND (CLASS Z):
   - MIN CONCRETE GRADE GEN 3 (C20 STRENGTH)
   - LAY CONCRETE BLINDING 25MM OVER FULL TRENCH AND ALLOW TO SET.
   - LAY PIPES ON BLINDING ON FOLDED WEDGES OF COMPRESSIBLE BOARD NOT LESS THAN 100MM ABOVE BLINDING.
   - FORM VERTICAL CONSTRUCTION JOINTS IN SURROUND AT FACE OF PIPE JOINT USING 18MM COMPRESSIBLE BOARD PRECUT TO PROFILE OF PIPE (PIPES LESS THAN 450MM DIA). FILL ANY GAP BETWEEN SPIGOT AND SOCKET WITH RESILIENT MATERIAL TO PREVENT ENTRY OF CONCRETE.
   - AFTER INITIAL TESTING, PLACE AND COMPACT MORE CONCRETE ACROSS FULL WIDTH OF TRENCH TO ENCASE PIPE TO 300MM ABOVE CROWN.
8. SELECTED FILL MATERIAL:
   - THIS SHOULD CONSIST OF UNIFORM READILY COMPACTIBLE MATERIAL, FREE FROM TREE ROOTS, VEGETABLE MATTER, BUILDING RUBBISH AND FROZEN SOIL.
   - WHEN USED AS FILL THE MATERIAL SHOULD NOT CONTAIN LARGE CLAY LUMPS OR COBBLES.
   - 'AS DUG' MATERIAL MAY BE USED PROVIDED THAT IT IS READILY COMPACTIBLE AND PROVIDES STABLE EMBEDMENT.
9. WHERE THE FINAL DEPTH OF COVER TO THE CROWN OF PIPES IS LESS THAN 900MM IN AGRICULTURAL LAND AND PUBLIC OPEN SPACE OR LESS THAN 1200MM IN HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS FOR HGV's (VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES), THEY ARE TO HAVE A CONCRETE BED AND SURROUND AND MAY NEED ADDED PROTECTION VIA A REINFORCED CONCRETE SLAB. THE DEPTH OF COVER TO THE CROWN OF PIPES CAN BE REDUCED FOR THE FOLLOWING AREAS ONLY:
   - DOMESTIC GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS – 350MM.
   - DOMESTIC DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY HGV's – 500MM
   - DOMESTIC DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTWAYS (EG. MEWS DEVELOPMENTS) WITH LIMITED ACCESS FOR HGV's) – 900MM
10. PIPE MATERIAL AND STRENGTH:
    - ALL SEWER PIPES UP TO AND INCLUDING 225MM DIAMETER ARE TO BE VITRIFIED CLAY COMPLYING WITH BS 65 (STORM SEWERS) & BS EN 295 (FOUL SEWERS).
    - ALL SEWER PIPES 300MM DIAMETER AND ABOVE TO BE CLASS M CONCRETE PIPES UNLESS NOTED OTHERWISE.
    - UNPLASTICISED PVC PIPES, JOINTS AND FITTINGS FOR GRAVITY SEWERS, WHERE AGREED AS AN ALTERNATIVE TO CLAY OR CONCRETE, SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS 4660 AND BS EN 1401–1. TO BE LAID IN MAXIMUM 3M LENGTHS.
    - THERMOPLASTICS STRUCTURED WALL PIPES, WHERE AGREED AS AN ALTERNATIVE TO CLAY OR CONCRETE, SHALL COMPLY WITH THE RELEVANT PROVISIONS OF THE W.I'S 4–35–01.
11. A FLEXIBLE MECHANICAL JOINT SHALL BE PROVIDED IN EACH SECTION OF THE PIPELINE AND WITHIN 150MM OF WHERE IT ENTERS A BUILDING OR CONNECTS WITH A WALL OR OTHER STRUCTURE.

ACCESS CHAMBERS:

12. ALL POLYPROPELYNE INSPECTION CHAMBERS TO BE OSMA WAVIN (OR SIMILAR APPROVED) AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
13. ALL REINFORCED PRECAST CONCRETE SHAFTS, CHAMBERS, COVER SLABS, LANDING SLABS, AND SEATING RINGS TO BE BY CPM (OR SIMILAR APPROVED).
14. ALL BRICKWORK SHALL BE CLASS B ENGINEERING, LAID ON CLASS (i) MORTAR IN ENGLISH BOND.
15. CHAMBERS SHALL BE BACKFILLED WITH DOT TYPE 1 SUB–BASE.
16. UNLESS OTHERWISE STATED, ALL MANHOLES AND CHAMBERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 7th EDITION (PUBLISHED BY THE WATER SERVICES ASSOCIATION, AUG 2012).
17. THE FIRST MANHOLE UPSTREAM FROM THE CONNECTION TO THE PUBLIC SEWER SHOULD, WHEN CONSTRUCTED, BE FITTED WITH A SCREEN IN ORDER TO PREVENT DEBRIS ENTERING THE PUBLIC SEWER. THE SCREEN SHOULD NOT BE REMOVED UNTIL IMMEDIATELY PRIOR TO THE OCCUPATION OF PREMISES TO BE SERVED BY THE SEWER.
18. MANHOLE COVER GRADES LOCATED IN:
    - CARRIAGEWAY OF ROADS (INCL. PARKING AREAS): CLASS D400
    - FOOTPATHS, PAVED AREAS & DOMESTIC PARKING: CLASS B125
    - ALL FRAME DEPTHS TO BE 150MM MINIMUM, EXCEPT FOR RESIDENTIAL CUL–DE–SACS WHERE 100MM IS ACCEPTABLE. MINIMUM CLEAR OPENING = 600MM X 600MM FOR PRIVATE DRAINAGE.
19. COVER LEVELS GIVEN TO CHAMBERS ARE TO BE ADJUSTED TO SUIT FINAL FINISHED SITE LEVELS.
20. WHERE COVERS LOCATED WITHIN PAVED AREAS TO BE RECESSED (IF DIRECTED BY LANDSCAPE ARCHITECT), ALLOW PETER SAVAGE 'SHILTON' KITEMARKED RANGE KS30 OR SIMILAR APPROVED WHERE B125 / D400 COVERS ARE REQUIRED.
21. WHERE INTERNAL CHAMBERS (WITHIN THE BUILDING) ARE REQUIRED, THEY ARE TO HAVE MECHANICALLY FIXED AIRTIGHT COVERS. THESE MAY BE RECESSED TO SUIT THE ARCHITECTS REQUIREMENTS FOR FINISHES, EG PETER SAVAGE R2T–450.

1240X675 BRICK MANHOLE CHAMBER

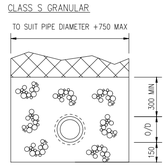




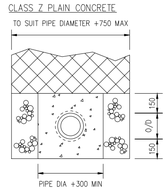
INTERNAL DIMENSIONS OF MANHOLE NORMALLY 1240X675 BUT MANHOLE WIDTH SHOULD BE INCREASED FOR PIPES LARGER THAN 225MM DIA TO GIVE A 225MM BENCHING EACH SIDE WITH THE BRICKWORK CORBELLED DOWN TO SUIT COVER

PIPE BEDDING

CLASS S GRANULAR



CLASS Z PLAIN CONCRETE

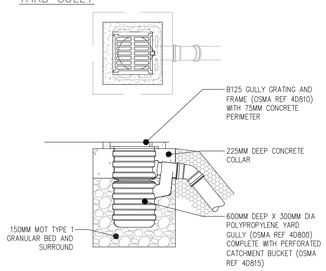


EXTRACT TABLE A1, WIS 4–08–02 (AMENDMENT NOV 2008)
PROCESSED AND AS DUG GRANULAR SIDEFILL AND BEDDING MATERIALS FOR RIGID PIPES

PIPE NOMINAL BORE (MM)	NOMINAL MAXIMUM PARTICLE SIZE (MM)	MATERIALS SPECIFIED IN BRITISH STANDARDS
OVER 100 TO 150	16	10 OR 14MM NOMINAL SINGLE SIZE OR 14MM TO 5MM GRADED
OVER 150 TO 300	20	10, 14 OR 20MM NOMINAL SINGLE SIZE OR 14MM TO 5MM GRADED OR 20MM TO 5MM GRADED
OVER 300 TO 550	20	14 OR 20MM NOMINAL SINGLE SIZE OR 14MM TO 5MM GRADED OR 20MM TO 5MM GRADED
OVER 550	40	14, 20 OR 40MM NOMINAL SINGLE SIZE OR 14MM TO 5MM GRADED OR 20MM TO 5MM GRADED OR 40MM TO 5MM GRADED

NOTES:
* MAXIMUM COMPACTION FRACTION VALUE = 0.15
* PROCESSED GRANULAR MATERIALS TO INCLUDE AGGREGATES TO BS EN 13242
* CLASS OF BEDDING = S, AS DEFINED IN BS EN 1295–1:1998 STRUCTURAL DESIGN OF BURIED PIPELINES UNDER VARIOUS CONDITIONS OF LOADING

YARD GULLY



ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. ALL LEVELS ARE IN METRES (m) ABOVE ORDNANCE DATUM.THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING. DO NOT SCALE FROM THIS DRAWING. IF IN DOUBT, ASK..

Rev.	Date	Details	App'd

PROJECT TITLE:
SHOTTON COMMUNITY CENTRE

DRAWING TITLE:
PROPOSED DRAINAGE DETAIL SHEET 1

CLIENT:
SHOTTON PARISH COUNCIL

STATUS: TENDER

Design: CEM	CAD: CEM
Chk'd: GR	App'd: MD
Date: 05.02.19	Scale: NTS @A1

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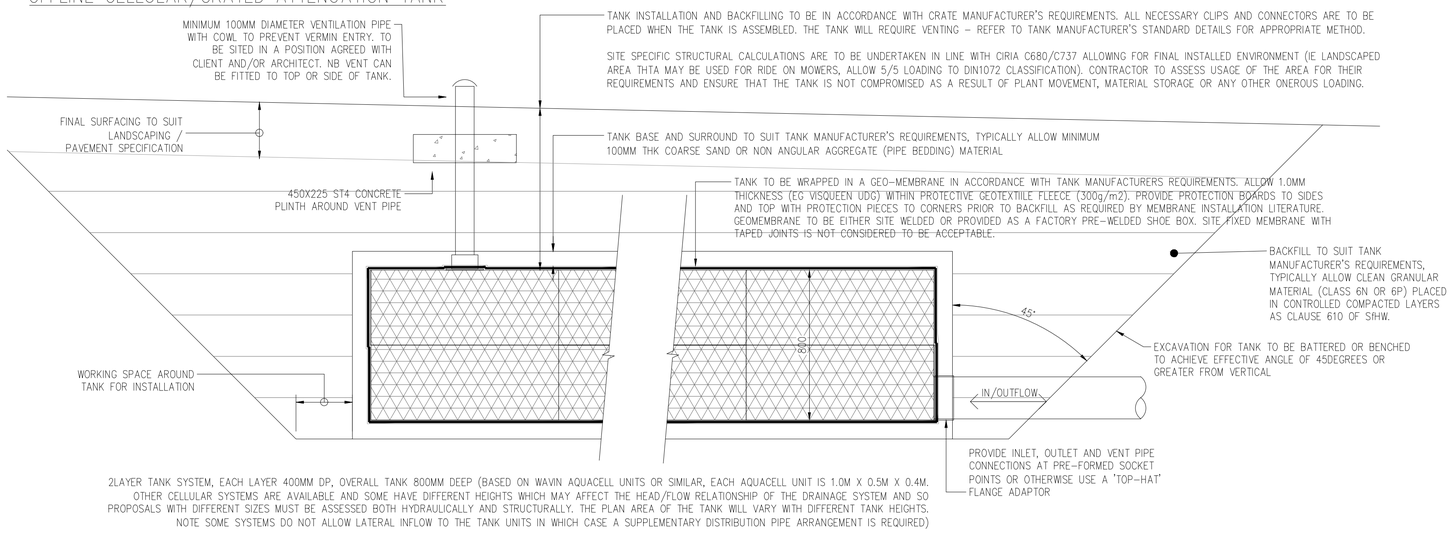
Project no:	Drg no:	Rev:
1422	L(–1)106	T

OFFLINE CELLULAR/CRATED ATTENUATION TANK

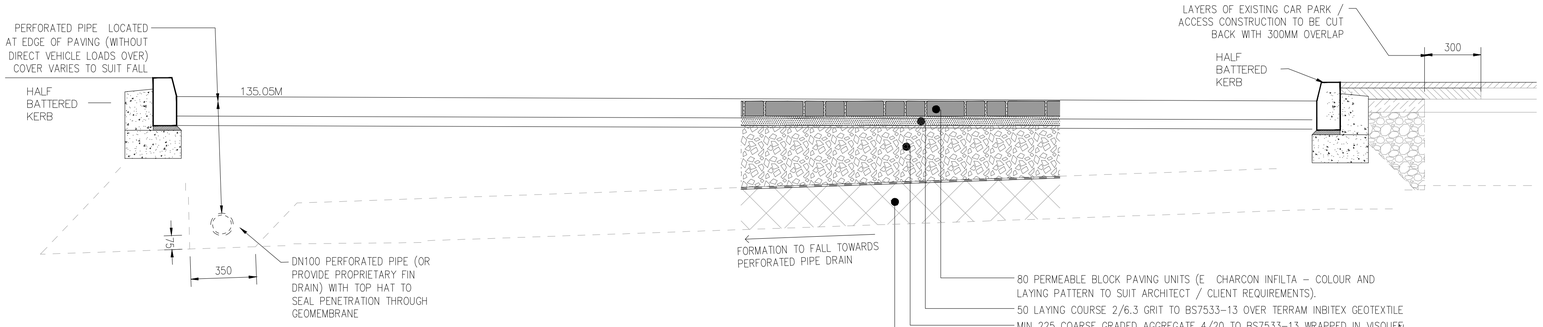


2LAYER TANK SYSTEM, EACH LAYER 400MM DP, OVERALL TANK 800MM DEEP (BASED ON WAVIN AQUACELL UNITS OR SIMILAR, EACH AQUACELL UNIT IS 1.0M X 0.5M X 0.4M. OTHER CELLULAR SYSTEMS ARE AVAILABLE AND SOME HAVE DIFFERENT HEIGHTS WHICH MAY AFFECT THE HEAD/FLOW RELATIONSHIP OF THE DRAINAGE SYSTEM AND SO PROPOSALS WITH DIFFERENT SIZES MUST BE ASSESSED BOTH HYDRAULICALLY AND STRUCTURALLY. THE PLAN AREA OF THE TANK WILL VARY WITH DIFFERENT TANK HEIGHTS. NOTE SOME SYSTEMS DO NOT ALLOW LATERAL INFLOW TO THE TANK UNITS IN WHICH CASE A SUPPLEMENTARY DISTRIBUTION PIPE ARRANGEMENT IS REQUIRED)

PAVEMENT SECTION 1-1

SIMILAR CONSTRUCTION TO BE USED FOR MAIN NEW CAR PARKING AREA (ACCESSWAY AND AISLES), EXCEPT SUB-BASE TO BE CONSTANT THICKNESS AS BOTH FINISHED GROUND AND FORMATION ARE TO FALL AT 1IN100.

ALL PERVIOUS PAVING UNITS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND BS 7533-3, WITH PARTICULAR CARE TAKEN NOT TO CONTAMINATE JOINTS (EG BY SOIL FOR SOFT LANDSCAPING, ETC). ALSO SEQUENCING OF CONSTRUCTION WORKS IN TERMS OF PLANT MOVEMENT AND/OR STORAGE OF MATERIALS MUST NOT COMPROMISE THE FORMATION PERMEABILITY OR PAVEMENT INTEGRITY



TRAFFIC CATEGORY 3 (BS7533) CONCRETE BLOCK PERMEABLE PAVED AREAS SUITABLE FOR CAR PARK AREAS SUBJECT TO USE BY CAR, LIGHT VAN AND MOTORCYCLES.

80 PERMEABLE BLOCK PAVING UNITS (E CHARCON INFILTA – COLOUR AND LAYING PATTERN TO SUIT ARCHITECT / CLIENT REQUIREMENTS).

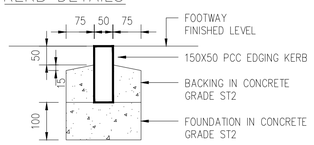
50 LAYING COURSE 2/6.3 GRIT TO BS7533-13 OVER TERRAM INBITEX GEOTEXTILE

MIN 225 COARSE GRADED AGGREGATE 4/20 TO BS7533-13 WRAPPED IN VISQUEEN UDG GEOMEMBRANE WITH PROTECTIVE MEASURES AS NECESSARY (EG TREADGUARD300).

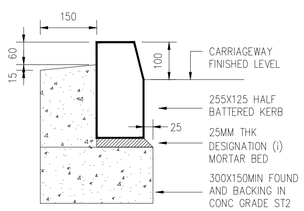
225MM CAPPING MATERIAL OF 6F2, 6F3 OR 6F5. THICKNESS TO SUIT CBR = 3% IN LINE WITH DUNELM REPORT. ACTUAL THICKNESS TO BE DETERMINED WHEN IN-SITU CBR TESTING HAS BEEN UNDERTAKEN AT PAVEMENT FORMATION LEVEL

CAPPING MATERIAL NOTE:
CLASS 6F2 = SELECTED GRANULAR MATERIAL (COARSE GRADING)
CLASS 6F3 = SELECTED GRANULAR MATERIAL (RECYCLED BITUMINOUS PLANINGS AND GRANULATED ASPHALT BUT EXCLUDING MATERIALS CONTAINING TAR)
CLASS 6F5 = SELECTED GRANULAR MATERIAL (COARSE GRADING) – IMPORTED ONTO THE SITE

KERB DETAILS



PIN KERB



HALF BATTER KERB

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT PROJECT DRAWINGS (ARCHITECTURAL, M&E ETC).
3. ALL BELOW GROUND DRAINAGE WORKMANSHIP TO BE CARRIED OUT IN STRICT ACCORDANCE WITH BS 8000 'WORKMANSHIP OF BUILDING SITES, PART 14: CODE OF PRACTICE FOR BELOW GROUND DRAINAGE'.
4. EXACT LOCATIONS AND CURRENT USAGE OF ALL EXISTING DRAINAGE TO BE ESTABLISHED ON COMMENCEMENT OF ANY WORKS.
5. ALL NEW BELOW GROUND DRAINAGE WORKS TO BE INSPECTED AND APPROVED BY BUILDING CONTROL PRIOR TO BACKFILLING.

DRAINAGE:

6. REFER TO NOTES ON DRAWING 126B31-101.

PAVEMENT / HIGHWAY:

7. THE CONTRACTOR SHALL ASCERTAIN THE CBR OF THE SUBGRADE ON SITE IN ORDER TO DETERMINE THE REQUIRED SUB-BASE AND/OR CAPPING THICKNESS(ES).
8. PRIOR TO LAYING ANY MATERIAL THE SUBGRADE MUST BE INSPECTED AND ANY SOFT SPOTS REMOVED AND FILLED WITH TYPE 2 MATERIAL TO SHW CLAUSE 804.
9. ALL ROAD GULLY AND DRAINAGE CHANNEL CONNECTIONS SHALL BE 150MM DIAMETER UNLESS OTHERWISE SPECIFIED.
10. ALL PRE CAST UNITS SHALL BE MANUFACTURED USING SULPHATE RESISTING CEMENT.

ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. ALL LEVELS ARE IN METRES (m) ABOVE ORDNANCE DATUM.THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING. DO NOT SCALE FROM THIS DRAWING. IF IN DOUBT, ASK..

Rev.	Date	Details	App'd

PROJECT TITLE:
SHOTTON COMMUNITY CENTRE

DRAWING TITLE:
PROPOSED DRAINAGE DETAIL SHEET 2

CLIENT:
SHOTTON PARISH COUNCIL

STATUS: TENDER

Design: CEM	CAD: CEM
Chk'd: GR	App'd: MD
Date: 05.02.19	Scale: NTS @A1

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Project no:	Drg no:	Rev:
1422	L(-1)107	T

Gir: X.XX (Girth of the trunk)
Spr: X.XX (Spread of the foliage)
Root Protection (Red Dashed Line) is 12xGirth

NOTES.

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2. ALL LEVELS ARE IN METRES (m) ABOVE ORDNANCE DATUM.
3 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING.

Rev.	Date	Details	App'd
T	05.02.19	TENDER ISSUE	MD

PROJECT TITLE:

SHOTTON COMMUNITY CENTRE

DRAWING TITLE:

TREE PROTECTION PLAN

CLIENT:

Shotton Parish Council

STATUS: TENDER

Design: SGeo	CAD: WS
Chk'd: MRD	App'd: MRD
Date: 31.01.19	Scale: 1:200 @A1

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Project no:	Drg no:	Rev:
1442	L(-1)108	T

NOTES.

1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES (m) ABOVE ORDNANCE DATUM.
3 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING.

CONTRACTOR'S SITE COMPOUND

ACCESS FROM FRIAR STREET

NOTE: ALL SITE PERIMETER FENCING TO BE AGREED ON SITE WITH THE CLIENT & CONTRACT ADMINISTRATOR

North

Scale 0 1 2 3 4 5m

PUBLIC FOOTPATH TO BE DIVERTED FOR THE DURATION OF THE WORKS / ALLOW FOR PROVISION AND MAINTENANCE OF TEMPORARY DIVERSION SIGNAGE

EXISTING GATE

PHASE 1 - 1800mm PERIMETER FENCING

PHASE 2 - 1800mm PERIMETER FENCING

PHASE 2 1800mm SITE PERIMETER FENCING

PHASE 1 - 1800mm PERIMETER FENCING

PHASE 1
SITE PERIMETER FENCING TO BE LOCATED AS REQUIRED FOR THE CONSTRUCTION OF THE WORKS WHILST MAINTAINING ACCESS & PARKING AREA FOR THE COMMUNITY CENTRE

NO CONTRACTORS ACCESS FROM BRIDGE ROAD

Bushes
Grass
Tarmac
Metal Rail
Community Centre
Paving
bin
LP
GU
ER
Bin
RS

Stn3
E 439488.79m
N 540555.72m
EL 135.39m

Stn4
E 439569.03m
N 540589.13m
EL 135.32m

Stn5
E 439547.09m
N 540554.85m
EL 135.17m

Stn6
E 439559.26m
N 540554.43m
EL 135.09m

Stn7
E 439583.71m
N 540538.75m
EL 135.19m

MH1
CL 134.76
IL 133.86
(Flooded)

MH2
CL 134.95
IL 133.45
(Flooded)

MH3
CL 135.10
IL 133.79

MH4
CL 135.21
IL 133.81
(Flooded)

MH5
CL 135.25
IL 134.70

MH6
CL 135.20
IL 134.60

MH7
CL 135.15
IL 134.25

MH8
CL 135.15
IL 134.69

MH9
CL 135.18
(Flooded)

GU 134.97
GU 135.06
GU 135.03
GU 134.84
GU 134.93
GU 135.03
GU 135.04
TL 135.37
TL 135.42

Gir:0.20 Spr:5.00
Gir:0.30 Spr:6.00
Gir:0.40 Spr:8.00

100mm
150mm

Rev.	Date	Details	App'd
P	31-01-19	Issued for tender	MD

PROJECT TITLE:

SHOTTON COMMUNITY CENTRE

DRAWING TITLE:

Site Establishment Works

CLIENT:

Shotton Parish Council

STATUS: TENDER

Design: SGeo	CAD: WS
Chk'd: MRD	App'd: MRD
Date: 25.07.18	Scale: 1:200 @A1

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Project no:	Drg no:	Rev:
1442	L(90)CDM	T

Plant Schedule					
Species	Girth	Root	Pot Size	Nos.	Centres
Trees					
A. Acer Palmatum Atropurpeum	12-14cm	CG	HStd	2	
B. Betula Pendula	12-14cm	CG	HStd	9	
C. Acer Campestre 'Streetwise'	12-14cm	CG	HStd	6	
Shrubs					
D. Berberis Thunbergii Atropurpea		CG	3L	130	600mm
E. Pyracantha Firethorn		CG	3L	30	600mm
F. Berberis Thunbergii Darwini		CG	3L	50	600mm
G. Viburnum Davidii		CG	3L	80	600mm
H. Cotoneaster Dammeri		CG	3L	30	600mm
Ground Cover					
I. Lavendula 'Hidcote'		CG	3L	55	450mm
J. Hebe 'MrsWinder'		CG	3L	17	450mm
K. Vinca Major		CG	3L	70	450mm
Climbers					
L Lonicera Periclymenum		CG	3L	1	
M. Rose 'Rambling Rector'		CG	3L	1	
N. Rose 'New Dawn'		CG	3L	1	

Topsoil and Subsoil
Do not use subsoil contaminated with with bricks, concrete, hardcore, rubbish or other materials that are corrosive, explosive or flammable, hazardous to human or animal life and are detrimental to plant life. Subsoil shall be excavated and or placed to required profiles and levels. When ground conditions are reasonably dry, subsoils shall be loosened to a depth pf 300mm and all stones larger than 50mm shall be removed. Where existing topsoil on site is deficient and requires topping up, all imported topsoil shall be in accordance with BS3882:2015 and with NHBC requirements. Do not use topsoil contaminated with with subsoil, rubbish or other materials that are corrosive, explosive or flammable, hazardous to human or animal life and are detrimental to plant life. Topsoil shall be stored in heaps no higher than 1m and wider than 2m and shall be protected from contamination and compaction. Following spreading, topsoil areas shall be cultivated to suitable depth and tilth when weather is suitably dry and the surface shall be left regular and even, levels shall be 25mm above adjacent kerbs and 50mm above lawns. Any visible weeds, roots and large stones shall be removed Do not
compact topsoil and ensure a friable texture of separate visible crumbs. Recommended depth after settlement:

- Rear gardens: 100mm
- Shrub Areas: 450mm

Tree and Shrub Planting General
Prior to planting topsoil shall be moist, friable and not waterlogged. Carry out planting during suitable weather conditions, do not plant during frozen or windy conditions.
Where beds are overgrown with weeds apply herbicide in accordance with manufacturers recommendation. Allow fallow period before cultivation. Container grown plants can be planted at any time of year if ground and weather conditions are
favourable. Bare root trees and shrubs can be planted from late October to March.
All plants shall be as specified, undamaged, sturdy, healthy and vigourous. They shall be free from pests, diseases, discoloration and physiological disorders. Name, form, dimensions, provenance and other criteria shall be as defined in The National Plant Specification. All plant handling shall be in accordance with HTA 'Handling and Establishing Landscape Plants'. All plants shall be stored in a secure environment and protected from site operations and over exposure to adverse weather conditions.
Where topsoil is compacted it shall be broken up to a depth of no less than 350mm into particles of 2-8mm, with the surface left regular and even. Levels shall be 25mm above kerbs and hardstandings and 50mm above adjacent grass areas. Remove all visible weeds, roots and large stones exceeding 30mm. Do not cultivate soil within rootspread of existing trees and shrubs. All plants shall be planted upright or well balanced with best side to front. MycorForce Transplanter shall be spread around the roots of each plant during planting at a rate specified by the supplier.

Works Cleanliness
Remove any soil and arisings from adjacent hard surfaces and leave works in a clean, tidy fashion at completion.

Topsoil and Subsoil
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Where existing topsoil on site is deficient and requires topping up, all imported topsoil shall be in accordance with BS3882:2015 and with NHBC requirements.
Do not use topsoil contaminated with with subsoil, rubbish or other materials that are corrosive, explosive or flammable, hazardous to human or animal life and are detrimental to plant life. Topsoil shall be stored in heaps no higher than 1m and wider than 2m and shall be protected from contamination and compaction. Following spreading, topsoil areas shall be cultivated to suitable depth and tilth when weather is
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- Rear gardens: 100mm
- Shrub Areas: 450mm
-

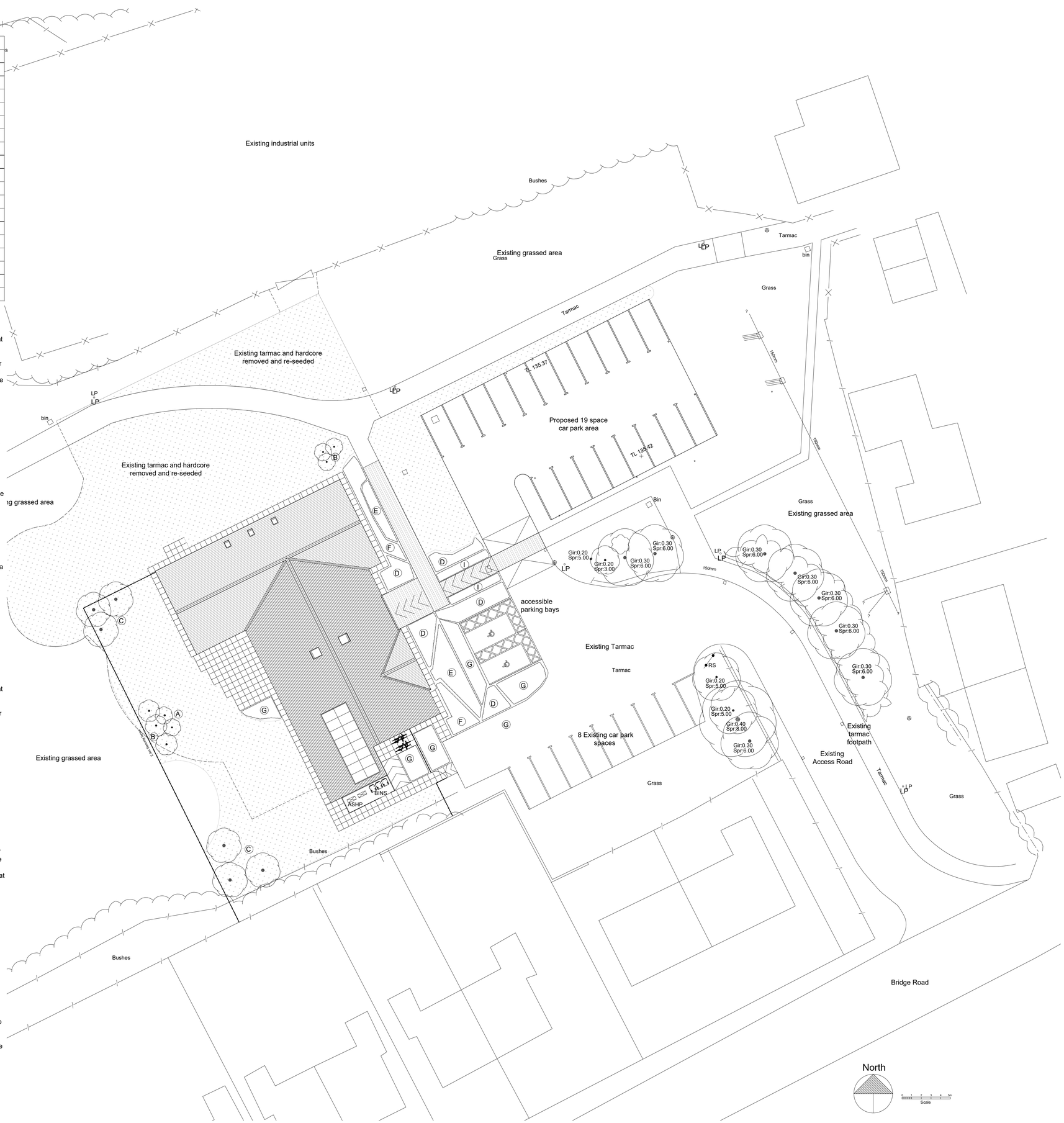
Watering
Water all plants immediately after planting, thoroughly and without damaging or displacing plants or soil. be broken up and the base dug over to a depth of 150mm to improve drainage. The tree will be planted to the same depth as it was in the nursery. Backfill will be firmed in around the rootball to prevent any air pockets. The pit shall be backfilled with a mix of good quality topsoil and an non peat based compost. 140gms of Enmag granular slow-release fertilser shall be incorporated to the fill mixture.

Root Barriers
Where an installed rootball is within 3m of an exisitng underground service route install protective root barrier with sides vertical and finished 75mm below finished ground level. To be Greenleaf Re Root 2000 or similar approved.

Tree and Shrub Aftercare
Any necessary formative pruning will be carried out and where appropriate woodchip/bark mulch applied to a depth of 75mm, and to at least the edge of the planting pit. A properly planned maintenance programme should be kept up until successful establishment of the trees. This may include watering when necessary, checking of the support systems, weed control and further mulching.

Any dead trees or shrubs to be replaced at the end of the defects period.

Prior to seeding remove all weeds by either hand pulling or using herbicide containing glysophate to manufacturers instructions. Cultivate seed beds to achieve fine, firm evenly graded surface 25mm above adjacent paving, kerbs, etc.
After cultivation & prior to seeding supply, spread & lightly rake granular pre-seeding fertiliser at rate of 60gm/m2.



NOTES.
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Rev.	Date	Details	App'd
T	28-01-19	TENDER ISSUE	MD

PROJECT TITLE:

SHOTTON COMMUNITY CENTRE

DRAWING TITLE:

PROPOSED SOFT LANDSCAPING

CLIENT:

Shotton Parish Council

STATUS: PREMILINARY

Design: SGeo	CAD: WS
Chk'd: MRD	App'd: MRD
Date: 25.07.18	Scale: 1:200 @A1

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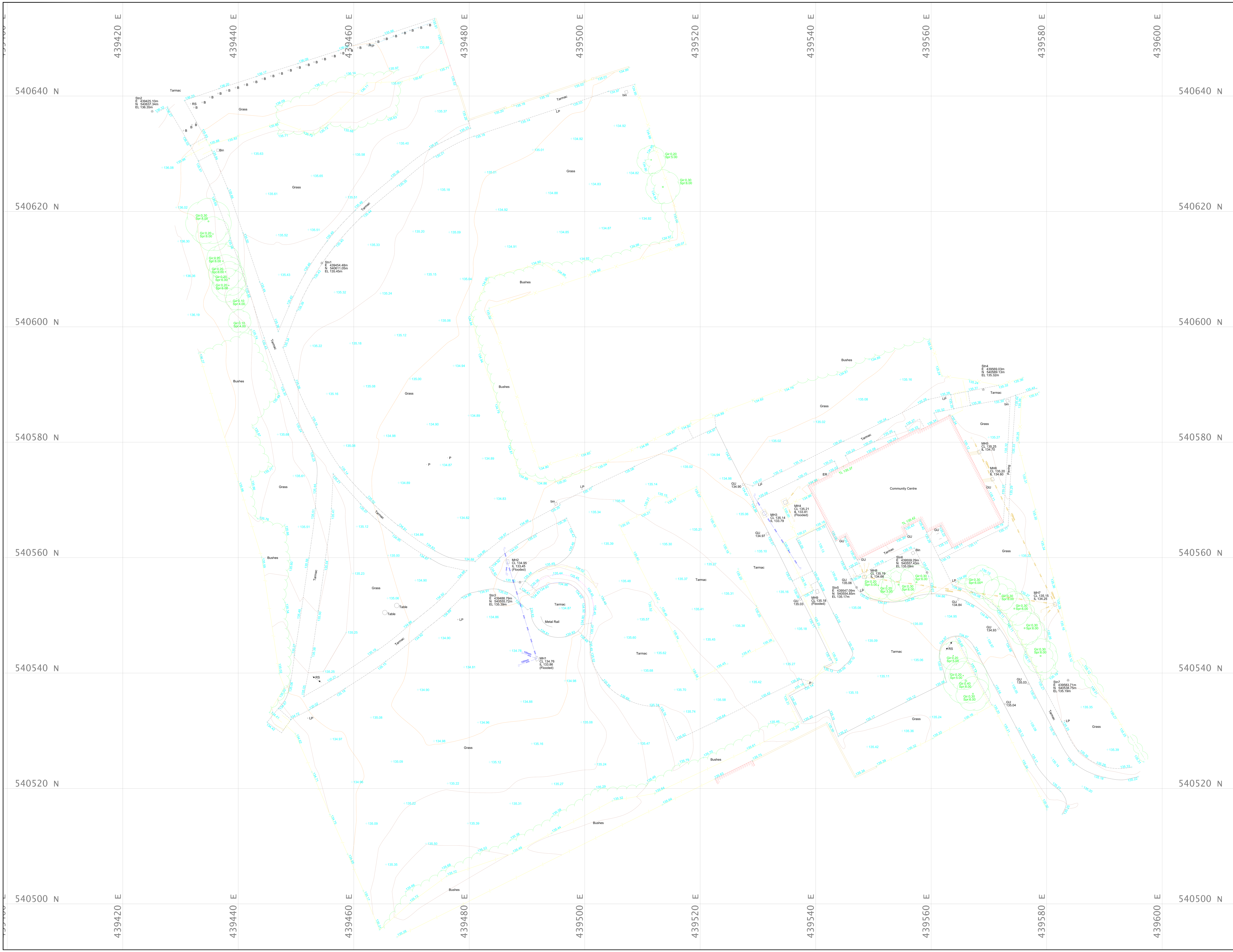
Project no:	Drg no:	Rev:
1442	L(92)001	P3



LEGEND

Kerb / Hard Edge
Change of Surface
Wall
Retaining Wall
Security Fence
Fence
Building
Overhead Feature
Top of Embankment
Bottom of Embankment
Hedge
Vegetation / Tree Canopy

Tree (Gir: Refers to the Radius of the Tree Trunk) (Spr: Refers to the Spread of the Canopy) (Ht: Refers to the Height of the Tree)
Gate
Outfall
Tree Stump

AB 35.30 Air Brick Level
+35.30 Level
CL 35.30 Cover Level
IL 35.30 Invert Level
TL 35.30 Threshold Level
+35.30 Top of Kerb
TW 35.30 Top of Wall Level

B	Bollard	GU	Gully
BH	Borehole	IC	Inspect. cover
BM	Bench Mark	KO	Kerb Outlet
BS	Bus Stop	LP	Lamp Post
BT	Telecom cover	MH	Manhole
CT	Cable TV cover	MK	Marker
EP	Electric pole	OF	Outfall
ER	Earthing rod	P	Post
FH	Fire Hydrant	RE	Rodding Eye
FS	Flagstaff	RS	Road Sign
G	Gas Cover	TP	Telecom pole
	Survey station	W	Water cover

Utilities

British Telecom
BT Overhead
Cable TV
Closed Circuit TV
Combined Service Drainage Route
Communications
Electric
Electric Overhead
Field Drain
Foul Water Drainage Route
Gas
Street Lighting
Surface Water Drainage Route
Water
Multi Service Route
Multi Service Trench
Empty Ducting
GPR Anomaly Possible Utility
Unknown Drainage Route
Unknown Utility

Assumed BT
Assumed Cable
Assumed Electric
Assumed Gas
Assumed Street Lighting
Assumed Unknown
Assumed Water

BT - Taken from Records
Cable - Taken from Records
Electric - Taken from Records
Gas - Taken from Records
Street Lighting - Taken from Records
Water - Taken from Records
Survey Extents

All below ground details shown have been identified from above ground without excavation. Spatial Geomatics use electro-magnetic and or ground penetrating radar (GPR) methods to investigate for underground utilities, services and features. Results using these methods are not infallible and we recommend trial excavations are carried out to confirm any identifications, positions and depths.

Any areas on the drawing where services or features have not been shown are not necessary clear of services or features but are an indication that no items have been identified during our investigation. All reasonable care and normal good practice should still be employed during design and construction.

Certain types of services such as plastic or concrete pipes, some conduit and ducting where direct access cannot be achieved for tracing may not be shown and alternative locating methods should be used.

Spatial Geomatics has used all reasonable care to research available services records but completeness or use of the services records supplied to or by Spatial Geomatics cannot be guaranteed. Therefore Spatial Geomatics cannot be held responsible for any features annotated as Taken from Record (R).

Depths obtained using electro-magnetic or GPR are effected by ground conditions and should be treated as indicative only. Electro-magnetic depths to utilities and services are generally taken to the centre of a feature, GPR depths to the top of a feature and drainage depth shown to invert, unless otherwise indicated.

Drainage pipe sizes will be obtained without entering the chamber and therefore should be treated as approximate. Pipe dimensions which have not been obtained visually will be taken from record when available.

All services, drainage and utility routes are assumed straight between access points, unless otherwise stated. The number of cables in runs will not be shown unless specifically requested. All services are below ground unless indicated.

Services, utilities and features may not have been surveyed if obstructed or not reasonably visible or accessible at time of survey.

All critical dimensions and measurements should be checked and verified with any errors or discrepancies notified to Spatial Geomatics immediately. The accuracy of the digital data is the same as the plotting scale implies. All dimensions are in metres unless otherwise stated.

The contractor must check and verify all site and building dimensions, levels, utilities and drainage detail and connections prior to commencing work.

N
APPROX.

SHEET LAYOUT

REV.	DETAILS	BY	DATE

GRID	DATUM
Station 1 Established using GPS Survey Orientated to North	Established using GPS

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2 Pont Park
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Newcastle upon Tyne
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TEL: 01661 823000 FAX: 01661 898137
email: info@sgl.uk.com
web site: www.sgl.uk.com

CLIENT:
D3 Associates
i-space
Mallan House, Bridge End,
Hexham NE46 4DQ

PROJECT TITLE:
Shotton Community Centre
Shotton Colliery

DRAWING TITLE:
Topographic Survey

SURVEYED BY:	DRAWN BY:	QA APPROVED:
KM	GT	GT

SCALE:	SURVEY DATE:
1:200 (A0)	July 2018

DRAWING NUMBER:	SHEET NUMBER:	REV:
1587200.dwg	1	A