

ELEVATION A -----

# **Ground Floor Plan**

Scale - 1:25



# 

# Elevation C

Scale - 1:25

Figured dimensions only are to be taken from this drawing. All dimensions are to be checked on site before any work is put in hand. IF IN DOUBT ASK.

CDM: Hazard Elimination & Risk Reduction has been undertaken and recorded where appropriate, in accordance with the requirements of "The Construction (Design and Management) Regulations 2015" and the associated "Industry Guidance for Designers"

3D View 01

Scale -

—Metal profile sheet roofing with metal flashings finished dark grey

-Cedral Lap horizontal cladding matching houses / flats

–4no. Metal hoop cycle stands providing 8no. cycle parking spaces

-Bottom edge of horizontal cladding boarding to be kept nominal 150mm from finished ground level

Finished ground level





## WATER MAIN NOTE

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF WATER FOR SCOTLAND PUBLISHED BY WRC PLC.
- ALL SERVICE PIPES TO HAVE 750mm MINIMUM COVER AND MAXIMUM 1350mm COVER TO GROUND LEVEL.
- ALL WATER MAINS TO HAVE 900mm MINIMUM COVER TO THE CROWN OF THE PIPE AND NOT MORE THAN 1350mm COVER TO GROUND LEVEL, UNLESS OTHERWISE AGREED WITH SCOTTISH WATER.
- ALL BEDDING AND BACK-FILLING MUST BE DONE WITH CERTIFIED INERT MATERIAL FROM OFF SITE ALL BARRIER PIPE JOINTS ARE TO BE PROPRIETY MECHANICAL (FLUID) COMPRESSION JOINT
- FITTINGS AS APPROVED BY SCOTTISH WATER. ALL HPPE JOINTS ARE TO BE BUTT FUSED.
- PRESSURE TESTING OF THE PROPOSED WATER MAINS TO BE UNDERTAKEN AS PER THE PIPE MANUFACTURER'S TESTING PROCEDURES.
- THE DEVELOPER WILL REQUIRE TO CHLORINATE THE NEW MAIN IN ACCORDANCE WITH THE WATER BYELAWS. A SAMPLE SHOULD BE TAKEN AND ANALYSED BY AN ACCREDITED LABORATORY, WITH THE RESULTS CERTIFICATE BEING PASSED TO SCOTTISH WATER.
- ALL WORKS CARRIED OUT BY THE DEVELOPER WILL NEED TO BE INSPECTED BY SCOTTISH WATER TO ENSURE COMPLIANCE WITH THE WATER BYELAWS (TRACK AND BYELAWS INSPECTIONS). ). ALL BURIED MAINS ARE TO BE INSTALLED WITH PE100 (HPPE) PIPE MATERIAL.
- I. MAINS TO BE POSITIONED RELATIVE TO OTHER UTILITIES IN ACCORDANCE WITH APPENDIX G OF WATER FOR SCOTLAND UNLESS OTHERWISE NOTED.
- 12. CONSTRUCTION DETAILS TO BE IN ACCORDANCE WITH APPENDIX H OF WATER FOR SCOTLAND UNLESS OTHERWISE NOTED
- . MAIN LAYING NEAR TO TREES AND TREE PLANTING ADJACENT TO MAINS TO BE INSTALLED IN ACCORDANCE WITH SECTION 2.3.10 OF WATER FOR SCOTLAND.
- 4. ALL SLUICE VALVES TO CLOSE IN ACCORDANCE WITH SCOTTISH WATERS LOCAL POLICY AGREEMENT.
- 15. ALL LEVELS RELATED TO ORDNANCE DATUM.
- 16. ALL PLOTS TO BE PROVIDED WITH A SINGLE 25mm Ø CONNECTION UNLESS OTHERWISE NOTED. WORK TO BE CARRIED OUT BY THE SLO. UNITS WITH 5 No. OR MORE BEDROOMS TO BE PROVIDED WITH A SINGLE 32mm Ø CONNECTION.
- 7. THE MINIMUM DISTANCE BETWEEN SERVICE CONNECTIONS ON THE WATER MAIN SHALL BE 450mm AND BE INSTALLED FROM THE WATER MAIN AT 90 DEGREES.
- 18. ALL SERVICE PIPES INSTALLED UNDER DRIVEWAYS TO BE OF BARRIER PIPE MATERIAL. 19. ALL WATER MAIN PIPEWORK TO BE 10 BAR SDR17 PRESSURE RATING.
- 20. EXCEPT WHERE SELF ANCHORING JOINTS ARE USED, THRUSTS FROM BENDS AND BRANCHES SHALL BE RESISTED BY CONCRETE THRUST BLOCKS CAST IN CONTACT WITH UNDISTURBED GROUND.
- 21. ANCHORAGE IS REQUIRED AT BRANCHES, BENDS, DEAD ENDS, END FIRE HYDRANT'S OR WASH OUT HYDRANTS, EVEN IF TEMPORARY.
- 22. ALL BARRIER PIPE TO BE IN ACCORDANCE WITH APPENDIX M OF WATER FOR SCOTLAND UNLESS NOTED OTHERWISE
- 23. ALL MAINS TO BE DESIGNED AND LAID TO BE IN ACCORDANCE WITHIN APPENDIX N OF WATER FOR SCOTLAND UNLESS NOTED OTHERWISE 24. ALL BACKFILL AND BEDDING AS PER STANDARD DETAILS AND TO BE IN ACCORDANCE WITH
- APPENDIX O OF WATER FOR SCOTLAND UNLESS NOTED OTHERWISE. 25. FOR FLATS AND MULTIPLE OCCUPANCY PREMISES, MANIFOLD CONNECTIONS ARE PERMITTED
- WITH A MAXIMUM OF 3 CONNECTIONS FROM A 32mm CONNECTION. 3. ALL JOINTING OF PIPES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF SW'S SPECIFICATION 404 AND AS PER THE JOINTING PROCEDURE IN APPENDIX P FOR ELECTROFUSION AND THE JOINTING METHODS AS DESCRIBED IN PART 3 OF THIS SPECIFICATION AND THE MANUFACTURER'S RECOMMENDATIONS. SCOTTISH WATER MAY ISSUE A PREFERRED LIST OF MATERIALS AND SIZES. THIS SHALL ENSURE COMPATIBILITY WITH MATERIALS CURRENTLY USED AND ALLOW SCOTTISH WATER TO MINIMISE STOCKS HELD FOR MAINTENANCE PURPOSES. ALL PIPE WORK GREATER THAN 32mm TO BE DESIGNED BY AND CONSTRUCTED BY WIRS
- ACCREDITED COMPANIES. 8. ALL FIRE MAINS MUST BE INSTALLED WITH RED FIRE MARKER TAPE WRAPPED AROUND THE PIPE ALONG THE ENTIRE LENGTH OF THE LAID MAIN AS PER APPENDIX O OF WATER FOR SCOTLAND
- UNLESS NOTED OTHERWISE 29. CONTRACTORS SHOULD BEFORE COMMENCING ON THE CONSTRUCTION OF THE WORKS, WRITTEN AGREEMENT TO THE PROPOSED DESIGN WILL BE REQUIRED FROM SCOTTISH WATER AND A PRESTART MEETING ARRANGED TO CONFIRM SPECIFICATION COMPLIANCE AND INFORM OF ANY PHASING/TIMESCALE OF THE CONSTRUCTION AS DETAILED IN APPENDIX Q.
- . BOUNDARY BOX'S SHALL BE INSTALLED IN THE FOOTWAY OR SERVICE STRIP WITHIN 750MM FROM THE PROPERTY BOUNDARY AND, WHERE POSSIBLE, SITED TO AVOID VEHICLE CROSSING POINTS. . BOUNDARY BOX TUBES AND COVERS TO BE INSTALLED AS PER BS 5834.
- 32. FOR THE PURPOSES OF METERED CONNECTIONS. SCOTTISH WATER SHALL STATE THEIR PREFERRED METERING OPTIONS INCLUDING METER TYPE AND SIZE.
- PRESSURE TESTING OF ALL MAINS IS TO ENSURE THE STRUCTURAL INTEGRITY OF THE CONSTRUCTED ASSET, AND MINIMISE ANY FUTURE LEAKAGE. PRESSURE TESTING IS COMPLETED TO PROVIDE SW WITH THE ASSURANCE THAT THE VESTED ASSET WILL HAVE THE REQUISITE LIFE SPAN BEFORE ANY SW INTERVENTION IS REQUIRED. PRESSURE TESTING SHALL BE COMPLETED AND THE ASSOCIATED REPORTING SHALL BE IN ACCORDANCE WITH SECTION 3.5 AND IN ACCORDANCE WITH APPENDIX R OF WATER FOR SCOTLAND UNLESS NOTED OTHERWISE

PHASE 3

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PHASE 3

#### NOTE

PLEASE NOTE THIS DRAWING IS SUBJECT TO SCOTTISH WATER TECHNICAL APPROVAL.

#### NOTE

PRESSURE TESTING TO BE CARRIED OUT PRIOR TO ON-SITE CONSTRUCTION IN ACCORDANCE WITH THE WATER BYLAWS.

#### NOTE

90 DEGREE BENDS TO BE AVOIDED ON THE WATER MAIN, WHERE POSSIBLE. 45 DEGREE BENDS TO BE USED INSTEAD.





# WATER MAIN LEGEND

	DENOTES EXISTING WATER MAIN.
FH	DENOTES EXISTING HYDRANT.
SV	DENOTES EXISTING CONTROL VALVE.
	DENOTES EXISTING CAPPED END.
	DENOTES PROPOSED WATER MAIN.
	DENOTES FIRE HYDRANT.
ScH	DENOTES SCOUR HYDRANT.
SV	DENOTES CONTROL VALVE.
	DENOTES DOUBLE CHECK VALVE.
—×—	DENOTES PROPOSED STOPCOCK.
M	DENOTES WATER METER.
	DENOTES DUCTING.

#### WATER MAIN MATERIAL LIST ITEM LENGTH No. 110mm OD BARRIER PIPE WATER MAIN 367 m N/A 63mm OD BARRIER PIPE WATER MAIN 165 m N/A FIRE HYDRANT (FH) N/A 2No. SCOUR HYDRANT (ScH) 4No. N/A DOUBLE CHECK VALVE (DCV) N/A 4No. SLUICE VALVES (SV) N/A 14No. STOPCOCKS N/A 44No.

32mmØ SERVICE PIPES REQUIRED AS EACH PROPERTY WILL HAVE A INTERNAL SPRINKLER SYSTEM AS REQUIRED BY THE HIGHLAND

FOR PROPOSED WATER MAIN DEED & SERVITUDE PLEASE REFER TO R&C DRAWING C4933/181.

SITE LAYOUT BASED ON COLIN ARMSTRONG ARCHITECTS DRAWING "(PROPOSED SITE PLAN)" RECEIVED ON 19.03.2025.

TOPOGRAPHICAL SURVEY BASED ON (PROPERTY AND LAND SURVEYS) PROJECT '(1102201)'. DATE RECEIVED 11.10.2022.

# NOT FOR CONSTRUCTION

## **GENERAL NOTES:-**

THE CONTRACTOR <u>MUST</u> CONSULT THE CIVIL/STRUCTURAL DESIGN ENGINEER IMMEDIATELY IF: a) GROUND CONDITIONS VARY ON SITE. b) EXISTING BUILDINGS VARY ON SITE. c) DIMENSIONS OR LEVELS SHOWN ARE CHANGED BY ANYONE ON SITE.

d) DIMENSIONS OF LEVELS SHOWN ARE CHARGED BY AND THE ON SHE.
 d) COMPLETE OR PARTIALLY COMPLETE STRUCTURES ARE TO BE SUBJECT TO CONSTRUCTION LOADING OR AFFECTED BY TEMPORARY WORKS.

LARGE SCALE DETAILS TAKE PRECEDENCE OVER SMALL SCALE DETAILS.

ALL MATERIALS ARE TO BE USED STRICTLY IN ACCORDANCE WITH MANUFACTURERS

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED IN CHANGES OR MODIFICATIONS REQUESTED AND APPROVED, TO SUIT HIS PREFERRED WORK METHOD ALL NECESSARY METHOD STATEMENTS MUST BE PROVIDED PRIOR TO COMMENCEMENT OF

ASSOCIATED SITE OPERATIONS. THIS DRAWING SHOULD ONLY BE USED FOR CONSTRUCTION PURPOSES WHEN THE ISSUE STATUS IS "FOR CONSTRUCTION".

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

ALL I	ALL LEVELS ARE IN METERS UNLESS OTHERWISE STATED.			
	© THE COPYRIGHT OF THIS DRAWING SUBSISTS WITH RAMSAY & CHALMERS			
Е	MJD	-	PARKING AND FOOTWAYS REVISED BASED ON COMMENTS.	19.03.20
D	NJH	MJD	GENERAL UPDATE.	27.02.20
0	NULL	MID	LIDDATED DEB SCOTTISH WATER COMMENTS	25 02 20



# PHASE 2, CROMLET PARK, INVERGORDON.

# PROPOSED WATER MAIN LAYOUT

COLIN ARMSTRONG ARCHITECTS

XXX-RAC-ZZ-XX-DR-C-0180-E

1:500 - A1 C4933 1:1000 - A3

Ramsay&Chalmers

sue Status

FOR PLANNING

**Consulting Structural & Civil Engineers** Chattan Mews Offices, 18 Chattan Place, Aberdeen, AB10 6RD 01224 560700 www.ramsavchalmers.co.uk







Greenspace in Proximity to Development



# Greenspace within Proposed Development Scale - 1:1000

			24.0
nor	Provision includes: A central landscaped green space of approximately 2,300 m <sup>2</sup> , forming a key focal point in the layout. This space includes: Informal grassed areas, tree and shrub planting, seating and benches.	COLIN ARMSTRO	NG
	A dedicated play area featuring the Kompan Agility Trail 6, a robust timber trim trail promoting active, physical, and imaginative play for a variety of age groups	A R C H I T E C T S Lyle House, Fairways Business Pa Inverness IV2 6AA	rk,
	Additional amenity greenspaces integrated throughout the site, supporting informal recreation, visual amenity, and community use Retention and incorporation of the adjacent core path 'Black Path', contributing to connectivity, active travel, and	T : 01463 712 288 W : www.colinarmstrong.com	Carlos Contractor
	recreational value as part of the wider greenspace strategy Peripheral planted and landscaped margins, enhancing biodiversity, enclosure, and amenity	Client The Highland Council	
	All homes are located within: 300 metres of amenity greenspace, and	Housing Development - Phase Cromlet Park Invergordon	02
	600 metres of the proposed play provision, complying with the accessibility standards outlined in the	Project No.	2186
	guiaance. <b>Timescale</b> All greenspace and play areas will be delivered during the	Drawing No. DIHD23035_C0017_ZZ_00_DR_A_02	204
	course of construction and will be fully completed prior to the first occupation of any residential unit.	Revision	01
	<b>Note</b> Refer Greenspace in Proximity to Development plan above highlighting existing green spaces, play areas, and recreational facilities within 600 metres of the site.	Green Space Provision	
	demonstrating the site's strong relationship with the wider recreational network available in Invergordon.	Status PLANNING Date Created	Drawn by
		13/05/25 Scale As indicated	WM Sheet @ A1



Figured dimensions only are to be taken from this drawing. All dimensions are to be checked on site before any work is put in hand. IF IN DOUBT ASK.

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Scale 1:1000



Scale 1:1000

1.	RAMSAY AND CHALMERS' DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECTS AND SERVICES ENGINEERS DRAWINGS AND THE SPECIFICATION.	1.	EARTHWORKS TO COMPLY WITH THE REQUIREMENTS SET OUT IN THE SPECIFICATION FOR HIGHWAY WORKS : VOLUME 1 : SERIES 600 - NOVEMBER 2009.
2.	THE DRAWINGS SHOW THE DESIGN INTENTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE DETAILED SETTING OUT DIMENSIONS AND LEVELS FROM THE ARCHITECTS DRAWINGS	2.	ACCEPTABLE MATERIALS ARE DEFINED AS MATERIALS EXCAVATED FROM WITHIN THE SITE OR IMPORTED ONTO SITE WHICH MEET THE REQUIREMENTS OF TABLE 6/1.
3.	CONTRACTOR TO VERIFY SITE DIMENSIONS, LEVELS AND DETAILS OF EXISTING SERVICES	3.	UNACCEPTABLE MATERIALS ARE DEFINED AS THE FOLLOWING:-
4.	THE CONTRACTOR MUST CONSULT THE ENGINEER IMMEDIATELY IF: GROUND CONDITIONS VARY ON SITE. EXISTING BUILDINGS VARY ON SITE. DIMENSIONS AND LEVELS SHOWN ARE CHANGED BY ANYONE ON SITE. ANY UNFORESEEN CONDITIONS INFLUENCE THE PROPOSALS SHOWN.		<ul> <li>MATERIALS THAT DON'T MEET THE REQUIREMENTS OF TABLE 6/1.</li> <li>PEAT.</li> <li>MATERIALS FROM SWAMPS, MARSHES AND BOGS.</li> <li>LOGS, STUMPS AND PERISHABLE MATERIAL.</li> <li>MATERIALS IN A FROZEN CONDITION.</li> <li>CLAY HAVING A LIQUID LIMIT = GREATER THAN 90 (BS 1377 : PART 2) OR PLASTICITY INDEX = EXCEEDING 65 (BS 1377 : PART 2).</li> </ul>
5.	ALL LEVELS IN METRES ABOVE LOCAL/ORDNANCE DATUM UNLESS NOTED OTHERWISE.		<ul> <li>MATERIALS SUSCEPTIBLE TO SPONTANEOUS COMBUSTION.</li> <li>CONTAMINATED MATERIALS INCLUDING CONTROLLED WASTES, HAZARDOUS WASTE AND RADIOACTIVE WASTE.</li> </ul>
6. 7	ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.	4.	THE FORMATION MUST BE DEFINED AS THE TOP SURFACE OF CAPPING. WHERE NO CAPPING IS REQUIRED FORMATION WILL BE THE TOP SURFACE OF EARTHWORKS AT THE UNDERSIDE
8.	LARGE SCALE DETAILS TAKE PRECEDENCE OVER SMALLER SCALE DETAILS.	5	OF SUB-BASE.
9.	ALL PROPRIETARY PRODUCTS TO BE USED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS. ALL REFERENCES TO MANUFACTURERS OR PROPRIETARY MATERIALS OR COMPONENTS MUST BE DEEMED TO INCLUDE 'EQUAL AND APPROVED'.	6.	IN ADDITION TO ANY GRADING REQUIREMENTS THE MAXIMUM PARTICLE SIZE OF ANY FILL MATERIAL MUST BE NO MORE THAN TWO-THIRDS OF THE COMPACTED LAYER THICKNESS.
10.	THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INVOLVED IN CHANGES OR MODIFICATIONS REQUESTED AND APPROVED TO SUIT HIS PREFERRED METHOD OF WORK.	7.	THE CONTRACTOR MUST EMPLOY ONLY PLANT AND WORKING METHODS WHICH ARE SUITED TO THE MATERIALS TO BE HANDLED AND TRAVERSED. THEY ARE RESPONSIBLE FOR MAINTAINING THE NATURE OF ACCEPTABLE MATERIAL SO WHEN IT IS PLACED AND
11.	THE MAIN CONTRACTOR MUST CHECK ALL AVAILABLE INFORMATION WELL IN ADVANCE OF THE COMMENCEMENT OF EACH WORK ELEMENT AND REFER ANY ITEMS REQUIRING CLARIFICATION OR SUPPLEMENTARY DETAILS TO THE ENGINEER.	8.	COMPACTED IT REMAINS ACCEPTABLE IN ACCORDANCE WITH THE CONTRACT. ACCEPTABILITY SHALL BE DETERMINED IN ACCORDANCE WITH TABLE 6/1. WHERE THE EXCAVATED MATERIAL REVEALS A COMBINATION OF ACCEPTABLE AND
12.	CONTRACTOR TO PROVIDE A SET OF AS BUILT DRAWINGS FOR INCLUSION INTO THE HEALTH AND SAFETY FILE ONCE CONSTRUCTION IS COMPLETE.		UNACCEPTABLE MATERIAL THE CONTRACTOR MUST CARRY OUT THE EXCAVATION IN SUCH A MANNER THAT THE ACCEPTABLE MATERIALS ARE EXCAVATED SEPARATELY FOR USE IN THE PERMANENT WORKS WITHOUT CONTAMINATION BY UNACCEPTABLE MATERIALS.
13.	STRUCTURAL MEMBERS INCLUDING SLABS, BEAMS, COLUMNS AND WALLS ARE DESIGNED FOR THEIR STRENGTH AND LATERAL STABILITY, ASSUMING THAT ALL OF THESE COMPONENTS ARE CONNECTED AND CONSTRUCTED IN THEIR FINAL POSITION. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE BUILDING STRUCTURE AND EXCAVATIONS DURING THE CONSTRUCTION PERIOD, I.E. ITS TEMPORARY CONDITION, INCLUDING THE EFFECTS FROM CRANES AND HOISTS, WHERE THESE ARE SUPPORTED AND/OR RESTRAINED BY THE STRUCTURE.	9.	TOPSOIL MUST WHEREVER PRACTICABLE BE USED IMMEDIATELY AFTER ITS STRIPPING AND IF NOT MUST BE STORED IN STOCKPILES OF HEIGHTS NOT EXCEEDING 2m. UNLESS OTHERWISE STATED, TOPSOIL MUST NOT BE STOCKPILED FOR MORE THAN TWO YEARS. TOPSOIL MUST NOT BE UNNECESSARILY TRAFFICKED EITHER BEFORE STRIPPING OR WHEN IN A STOCKPILE.
14.	THE CONTRACTOR MUST UNDERTAKE ALL NECESSARY CALCULATIONS FOR THE TEMPORARY STRUCTURE AND BRACING AND WHERE NECESSARY, DETAILED MEMBER CHECKS AND STARIUTY CHECKS FOR THE PERMANENT STRUCTURE ALL ADDITIONAL WORK	10.	ALL TIMES.
	REQUIRED FOR THE TEMPORARY STABILITY OF THE STRUCTURE SHALL BE DEEMED TO BE INCLUDED BY THE CONTRACTOR AND MUST BE REMOVED FROM THE SITE ON THE COMPLETION OF THE DEPENDENT STRUCTURE IN THE CONTRACTOR'S REPONCIPILITY	11.	PERIOD NECESSARY.
15.	COMPLETION OF THE PERMIANENT STRUCTORE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THE PERMANENT WORKS FOR ANY LOADS APPLIED BY THE TEMPORARY WORK. ALL TEMPORARY WORKS DESIGNS ARE TO BE CARRIED OUT BY A SUITABLY EXPERIENCED COMPETENT PERSON APPOINTED BY THE CONTRACTOR THESE DESIGNS APE TO BE	12.	INCLUDING THOSE PAVED AREAS TO BE RECONSTRUCTED OR REPAIRED, MUST BE CARRIED OUT AND REINSTATED IN COMPLIANCE WITH CLAUSE 706.
16.	CHECKED BY AN APPROPRIATE PERSON. ALL WORK BY THE CONTRACTOR MUST BE CARRIED OUT IN SUCH A WAY THAT ALL REQUIREMENTS UNDER THE HEALTH AND SAFETY ACT. ARE SATISFIED.	14.	MATERIAL MUST NOT BE FROST SUSCEPTIBLE IF IT IS USED WITHIN 450mm OF THE DESIGNED FINAL SURFACE.
17.	FIRE PROTECTION TO STRUCTURE TO BE SPECIFIED BY OTHERS.	15.	THE BOTTOM OF ALL FOUNDATION EXCAVATIONS MUST BE FORMED TO THE LINES AND LEVELS SHOWN ON THE DRAWINGS. POCKETS OF SOFT SOIL OR LOOSE ROCK MUST BE REMOVED AND THE RESULTING VOIDS AND ANY NATURAL VOIDS MUST BE FILLED WITH ST
18.	ALL NON-LOADBEARING INTERNAL PARTITIONS MUST COMPLY WITH BS 5234: PARTITIONS (INCLUDING MATCHING LININGS). ALL NON-LOADBEARING INTERNAL PARTITIONS MUST BE RESTRAINED AT THE HEAD BY AN APPROPRIATE PROPRIETARY RESTRAINT SYSTEM FIXED TO THE STRUCTURE ABOVE.	16	CONCRETE TO CLAUSE 2602. AFTER PLACING OF BLINDING CONCRETE SHOWN ON THE DRAWINGS, NO TRIMMING OF THE SIDE FACES OF THE EXCAVATION IS TO BE CARRIED OUT FOR 24 HOURS.
19.	THE LEVELS AROUND ALL DOOR THRESHOLDS ARE TO BE DEFINED BY THE ARCHITECT. IT IS RECOMMENDED THAT A DRAINAGE CHANNEL IS INSTALLED AT THE OUTSIDE OF ALL INDUSTRIAL DOORS.	10.	PLANT WHICH IS NECESSARY FOR ITS DEPOSITION, SPREADING AND COMPACTION. THE CONTRACTOR MUST TAKE ALL REASONABLE MEASURES TO PREVENT DAMAGE TO THE UNDERLYING STRATA, WHICH MAY INCLUDE USE OF LIGHTER SPREADING PLANT OR A REDUCTION OF THE NUMBER OF PASSES OF COMPACTION PLANT.
20.	THE CONTRACTOR IS RESPONSIBLE FOR THE MANAGEMENT OF GROUND WATER, SURFACE WATER, FLOWS FROM EXISTING FIELD DRAINAGE AND RUN-OFF FROM ADJACENT SITES DURING CONSTRUCTION. AN ALLOWANCE FOR THIS COST MUST BE MADE. THE CONTRACTOR MUST INSTALL APPROPRIATE CUT.OEE DRAINAGE AROUND THE	17.	EMBANKMENTS AND OTHER AREAS OF FILL MUST BE CONSTRUCTED EVENLY OVER THEIR FULL WIDTH AND THEIR FULLEST POSSIBLE EXTENT AND THE CONTRACTOR MUST CONTROL AND DIRECT CONSTRUCTIONAL PLANT AND OTHER VEHICULAR TRAFFIC UNIFORMLY OVER THEM DAMAGE BY CONSTRUCTIONAL IN LANT AND OTHER VEHICULAR TRAFFIC BE
21.	PERIMETER OF THE SITE TO ENSURE THAT RUN-OFF FROM ADJACENT SITES IS MINIMISED. EXISTING FIELD DRAINS SHOULD BE ROUTED AROUND THE PERIMETER OF THE WORKS AND RE-CONNECTED TO THE ORIGINAL FIELD DRAIN PRIOR TO EXITING THE SITE.	18.	MADE GOOD BY THE CONTRACTOR WITH MATERIAL HAVING THE SAME CHARACTERISTICS AND STRENGTH AS THE MATERIAL HAD BEFORE IT WAS DAMAGED. EMBANKMENTS AND OTHER AREAS OF UNSUPPORTED FILLS MUST NOT BE CONSTRUCTED
23.	ANY GROUND AND GROUND WATER ENCOUNTERED WHICH IS NOT CONSISTENT WITH THE SITE INVESTIGATION REPORT MUST BE NOTIFIED TO THE ENGINEER IMMEDIATELY. ADDITIONAL TESTING OF THESE AREAS MAY BE REQUIRED AND AN ALLOWANCE FOR THIS COST SHOULD BE MADE.		WITH STEEPER SIDE SLOPES, OR TO GREATER WIDTHS THAN THOSE SHOWN ON THE DRAWINGS, EXCEPT TO PERMIT ADEQUATE COMPACTION AT THE EDGES BEFORE TRIMMING BACK, OR TO OBTAIN THE FINAL PROFILE FOLLOWING ANY SETTLEMENT OF THE FILL AND THE UNDERLYING MATERIAL.
24.	ALL FORMATIONS MUST BE FULLY PROTECTED PRIOR TO FINAL SURFACING BEING INSTALLED AND SHOULD NOT UNDER ANY CIRCUMSTANCES BE TRAFFICKED BY CONSTRUCTION VEHICLES.	19.	WHERE PIPES IN EMBANKMENTS OR IN OTHER AREAS OF FILL ARE TO BE CONSTRUCTED OTHER THAN IN A TRENCH, THE FILL MUST BE BROUGHT UP TO AND OVER THEM EQUALLY ON BOTH SIDES. THE FILL MUST BE DEPOSITED IN EVEN LAYERS AND MUST NOT BE HEAPED ABOVE THE PIPE. SPREADING AND COMPACTION MUST BE CARRIED OUT EVENLY WITHOUT DISLODED DISTORTING ON DAMAGING THE FIRE DOWNED AND THE PIPE.
25.	ALL FORMATIONS MUST BE WELL PROTECTED PRIOR TO ANY SITE TRAFFICKING. FORMALLY CONSTRUCTED TEMPORARY HAUL ROADS MUST BE INSTALLED TO FULLY PROTECT ALL FORMATIONS. AN ALLOWANCE FOR THIS COST MUST BE MADE.	20.	WITHIN 300mm OF ANY PART OF THE PIPE OR JOINT. TILES REQUIRED AS PART OF THE PERMANENT WORKS TO SEPARATE EARTHWORKS MATERIALS MUST BE MANUFACTURED FROM SYNTHETIC OR OTHER FIBRES AS REQUIRED
26. 27.	ALL DRAINAGE FILTER MATERIALS AND ATTENUATION DEVICES MUST BE INSTALLED AT THE END OF THE CONSTRUCTION TO ENSURE THAT SILTING DOES NOT OCCUR. ALL TANKING/WATERPROOFING TO BE SPECIFIED BY OTHERS.	21.	THEREIN AND BE IN THE FORM OF THIN PERMEABLE MEMBRANES. THE CONTRACTOR MUST PROVIDE EVIDENCE THAT THE GEOTEXTILE WILL BE SUFFICIENTLY DURABLE, WHEN INSTALLED IN CONTACT WITH THE MATERIALS TO BE SEPARATED, TO
28.	ALL RETAINING WALLS TO BE BACKFILLED WITH FREE DRAINING GRANULAR MATERIAL WITH A SUITABLE DRAINAGE SYSTEM TO PREVENT THE BUILD UP OF WATER PRESSURE BEHIND THE WALL.	22.	MAINTAIN ITS INTEGRITY FOR AT LEAST THE LIFE PERIOD REQUIRED. GEOTEXTILES MUST BE PROTECTED AT ALL TIMES AGAINST MECHANICAL OR CHEMICAL DAMAGE. THOSE SUSCEPTIBLE TO DAMAGE BY LIGHT MUST NOT BE UNCOVERED BETWEEN MANUEACTURE AND INCORPORTATION IN THE PERMANENT WORKS. TEMPORARY EVOSUBE
29.	THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PRODUCED ON THE BASIS THAT THE CONTRACTOR IS COMPETENT AND IS AWARE OF AND CAN IMPLEMENT STANDARD CONSTRUCTION DETAILS WITHOUT INPUT FROM RAMSAY AND CHALMERS. IF THERE IS ANY DOUBT OVER WHAT IS REQUIRED THEN THE CONTRACTOR MUST MAKE ENQUIRIES WITH RAMSAY AND CHALMERS.	23.	MUST NOT EXCEED 5 HOURS. THE GEOTEXTILE MUST BE LAID AND LAPPED AS DESCRIBED IN ACCORDANCE WITH CLAUSE 609 AND WHERE LAPPING IS EMPLOYED ADJACENT SHEETS OR STRIPS OF GEOTEXTILE MUST BE OVERLAPPED BY AT LEAST 300mm.
30.	DURING EXCAVATIONS UNKNOWN SERVICES AND THOSE WHICH HAVE BEEN POORLY LOCATED MAY BE ENCOUNTERED AND SUITABLE ALLOWANCES SHOULD BE MADE FOR THIS.	24.	THE LAYER OF MATERIAL ON WHICH THE GEOTEXTILE IS TO BE PLACED MUST NOT HAVE PROTRUSIONS OR SHARP PROJECTIONS WHICH ARE LIKELY TO DAMAGE THE GEOTEXTILE
31.	THE CONTRACTOR MUST PLAN AND IMPLEMENT HIS TEMPORARY SUPPORT AND CONSTRUCTION METHODOLOGY SO AS TO ENSURE THE PERMANENT WORKS ARE CONSTRUCTED AS DESIGNED.		DURING INSTALLATION OR IN SERVICE. THE METHOD OF INSTALLATION MUST ENSURE THAT THE GEOTEXTILE IS IN CONTINUOUS CONTACT WITH THE SUBFACE ON WHICH IT IS TO BE PLACED AND THE GEOTEXTILE MUST NOT BE STRETCHED OR BRIDGED OVER HOLLOWS OR HUMPS. OPERATION OF CONSTRUCTION PLANT DIRECTLY ON THE INSTALLED GEOTEXTILE WILL NOT BE PERMITTED AND ITS COVERING WITH FULL MATERIAL MUST LAKE PLACE
32.	WHERE APPLICABLE ALL TECHNICAL REQUIREMENTS, PERFORMANCE STANDARDS AND DESIGN FOR THE CONSTRUCTION OF DWELLINGS MUST BE IN ACCORDANCE WITH ANY RELEVANT THIRD PARTY WARRANTY PROVIDER'S REQUIREMENTS (E.G. NHBC, ZURICH, PREMIER GUARANTEE ETC).	25.	IMMEDIATELY AFTER ITS LAYING. THE CONTRACTOR MUST CARRY OUT COMPACTION AS SOON AS PRACTICABLE AFTER DEPOSITION, ON ALL THOSE CLASSES OF FILL IN TABLE 6/1 WHICH REQUIRE TO BE
33.	IF A DIFFERENCE EXISTS BETWEEN AN ELECTRONIC FILE AND THE PAPER DOCUMENT THAT HAS BEEN ISSUED BY RAMSAY AND CHALMERS THEN THE PAPER DOCUMENT WILL TAKE PRECEDENCE.	26.	COMPACTED. COMPACTION MUST BE EITHER METHOD OR END-PRODUCT AS REQUIRED FOR THE CLASS OF FILL IN TABLE 6/1, USING PLANT APPROPRIATE TO THE CLASS OF FILL AND THE SITE CONDITIONS
34.	IF A DISCREPANCY EXISTS BETWEEN THE SPECIFICATION ON THIS DRAWING AND THE PROJECT SPECIFIC DRAWINGS THEN THE REQUIREMENTS OF THE PROJECT SPECIFIC DRAWINGS WILL TAKE PRECEDENCE.	27.	METHOD COMPACTION MUST BE UNDERTAKEN USING THE PLANT AND METHODS IN TABLE 6/4 APPROPRIATE TO THE COMPACTION REQUIREMENTS AS LISTED IN TABLE 6/1 FOR THE CLASS OF MATERIAL BEING COMPACTED.
35.	ALL ITEMS OF PERMANENT PLANT AND ASSOCIATED SUPPORTS ARE TO BE ADEQUATELY ISOLATED FROM THE STRUCTURE (I.E. ANTI-VIBRATION MOUNTINGS TO BE PROVIDED. REFER TO DETAILS AND SPECIFICATIONS BY OTHERS).	28.	PLANT AND METHODS NOT INCLUDED IN TABLE 6/4 MUST ONLY BE USED PROVIDING THE CONTRACTOR DEMONSTRATES AT SITE TRIALS THAT A STATE OF COMPACTION IS ACHIEVED BY THE ALTERNATIVE METHOD EQUIVALENT TO THAT OBTAINED USING THE SPECIFIED
30.	ALL CELLING STSTEMS, NON-STRUCTURAL FITTINGS AND FIXTURES AND THEIR FIXINGS ARE TO BE DESIGNED BY A SPECIALIST. ONCE THESE HAVE BEEN SPECIFIED THE DESIGN CALCULATIONS AND DETAILS MUST BE FORWARDED TO RAMSAY AND CHALMERS FOR REVIEW AND COMMENT A MINIMUM OF 2 WEEKS PRIOR TO INSTALLATION.	29.	METHOD. EARTHMOVING PLANT MUST NOT BE ACCEPTED AS COMPACTION EQUIPMENT NOR WILL THE USE OF A LIGHTER CATEGORY OF PLANT TO PROVIDE ANY PRELIMINARY COMPACTION TO ASSIST THE USE OF HEAVIER PLANT BE TAKEN INTO ACCOUNT WHEN ASSESSING THE AMOUNT OF COMPACTION PEOLUPED FOR ANY LAYER
57.	THESE HAVE BEEN SPECIFIED THE DESIGN CALCULATIONS AND DETAILS MUST BE FORWARDED TO RAMSAY AND CHALMERS FOR REVIEW AND COMMENT A MINIMUM OF 2 WEEKS PRIOR TO INSTALLATION.	30.	IF MORE THAN ONE CLASS OF MATERIAL IS BEING USED IN SUCH A WAY THAT IT IS NOT PRACTICABLE TO DEFINE THE AREAS IN WHICH EACH CLASS OCCURS, THE CONTRACTOR MUST COMPACT WITH PLANT OPERATING AS IF ONLY THE MATERIAL WHICH REQUIRES THE
<u>SIT</u>	E SUPERVISION	31.	CAPPING MUST BE PROVIDED ONLY IN THOSE LOCATIONS, TO BE CONSTRUCTED WITH
1.	UNLESS OTHERWISE NOTED, THE CONSULTING ENGINEER WILL MAKE OCCASIONAL SITE INSPECTIONS ONLY.	32.	CAPPING. CAPPING MUST BE CONSTRUCTED WITH CLASS 6F2 MATERIAL COMPLYING WITH TABLE 6/1.
2.	THIS LEVEL OF INSPECTION DOES NOT REMOVE OR DIMINISH THE CONTRACTOR'S RESPONSIBILITY AND LIABILITY FOR ENSURING THE WORKS ARE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE DESIGN AND SPECIFICATION AND TO PROVIDE THE NECESSARY LEVEL OF SITE SUPERVISION TO THIS EFFECT.	33. 34.	CAPPING MUST CONSIST OF ONE CLASS OF CAPPING MATERIAL THROUGHOUT ITS DEPTH. THE SUB-FORMATION MUST HAVE THE SAME LONGITUDINAL GRADIENT, CROSSFALL AND SUBFACT LEVEL TO EPANCE AS THE COMMATION
		35.	THE CONTRACTOR MUST LIMIT ANY UNPROTECTED AREA OF SUB-FORMATION, WHICH IS TO RECEIVE CAPPING TO SUIT THE OUTPUT OF THE PLANT IN LISE AND THE RATE OF
<u>HE</u> 1.	ALIH & SAFETY CONTRACTOR TO BE AWARE OF ALL CURRENT HEALTH AND SAFETY REGULATIONS INCLUDING THE FOLLOWING:	36.	DEPOSITION OF CAPPING.
	CONSTRUCTION (DESIGN & MANAGEMENT) REGULATIONS 2015;	27	OVERNIGHT.
	LIFTING OPERATIONS AND LIFTING EQUIPMENT REGULATIONS 1998; THE MANUAL HANDLING OPERATIONS REGULATIONS 1992:	37.	PROTECTED FROM DAMAGE BY TRAFFIC AND CONSTRUCTION PLANT.
	CONFINED SPACES REGULATIONS 1997;	38.	CONSTRUCTION OF CAPPING) MUST NOT BE OPERATED ON THE SUB-FORMATION, UNLESS ADEQUATE PROTECTION, IF NECESSARY IN ADDITION TO ANY WEATHER PROTECTION, IS PROVIDED.
2.	CUNTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS 1999. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT BRITISH STANDARDS AND CURRENT CODES OF PRACTICES:	39.	CONSTRUCTION PLANT AND OTHER VEHICULAR TRAFFIC MUST NOT BE OPERATED ON THE FORMATION UNLESS ADEQUATE PROTECTION, IF NECESSARY IN ADDITION TO ANY WEATHER PROTECTION IS PROVIDED.
	BS EN 12811-1:2003 TEMPORARY WORKS EQUIPMENT, SCAFFOLDS. PERFORMANCE REQUIREMENTS AND GENERAL DESIGN; BS 5974: 2017 CODE OF PRACTICE FOR THE PLANNING, DESIGN, SETTING UP AND USE OF TEMPORARY SUSPENDED ACCESS EQUIPMENT;	40.	THE CONTRACTOR MUST MAKE AVAILABLE HIS PROPOSALS FOR THE PROTECTION OF THE SUB-FORMATION OR FORMATION IN AREAS WHERE THEY ARE WITHIN 300mm OF THE EXISTING GROUND LEVEL, AFTER TOPSOIL HAS BEEN STRIPPED, BEFORE USING CONSTRUCTION PLANT OR OTHER VEHICULAR TRAFFIC AT OR ABOVE SUB-FORMATION OR FORMATION.

EARTHWORKS

1. SAMPLING AND TESTING OF EARTHWORKS MATERIALS MUST BE CARRIED OUT IN

ACCORDANCE WITH BS EN 22476.

<u>GENERAL</u>

EQUIPMENT;

BS 5975: 2019 CODE OF PRACTICE FOR TEMPORARY WORKS PROCEDURES;

LOCAL AUTHORITY STANDARDS FOR ROAD CONSTRUCTION SPECIFICATION

BS EN 1997-1: 2004 GEOTECHNICAL DESIGN, GENERAL RULES.

CIVIL ENGINEERING / EXTERNAL WORKS

DESIGN MANUAL FOR ROADS AND BRIDGES SPECIFICATION FOR HIGHWAY WORKS

OPENINGS IN ROADS

BS6037-1: 2017 CODE OF PRACTICE PERMANENTLY INSTALLED SUSPENDED ACCESS

ALL CIVIL ENGINEERING AND EXTERNAL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS:-

REINSTATEMENT OF TRENCHES IS TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS:-NEW ROADS AND STREET WORKS ACT 1991 - SPECIFICATION FOR THE REINSTATEMENT OF

DESIGN MANUAL FOR ROADS AND BRIDGES - NOVEMBER 2001 - VOLUME 4 : SECTION 2

1.		ORK TO BE:-	
	VITRIFIED CLAY PIPES UPTO AND EN295-1 PIPES BI EN295-1.	PIPES INCLUDING 150mm ETWEEN 225mm Ø Å	Ø TO BE VITRIFIED CLAY 28kN/m STREN ND 300mm Ø TO BE VITRIFIED CLAY CL/
	OR THERMOPLASTIC UNPLASTICATED COMPLY WITH TH STRUCTURAL W/ OF W1S 4-35-01.	STRUCTURAL WAL PVC PIPES, JOINTS HE RELEVANT PROV ALL uPVC SEWER PI	L PIPES - 150mm Ø TO 300mm Ø AND FITTINGS FOR GRAVITY SEWERS (ISIONS OF BS EN13598 AND BS EN 1401 PES MUST COMPLY WITH THE RELEVAN
	SOLVENT CEMENT BS 4336 : PART 3 A SOLVENT CEMENT	TS FOR JOINTING up IND BS EN 1401-1 FO MAY ALSO COMPL	VC MUST COMPLY WITH THE RELEVAN OR PIPES AND FITTINGS COMPLYING WI Y WITH BS 6209.
	uPVC PIPES MUST	COMPLY WITH THE	LOCAL WATER AUTHORITIES REQUIRE BE CLASS H PRECAST CONCRETE TO E
_		APPROVED.	
	THE MAIN CONTRA	ACTOR WILL INVEST	IGATE AND CONFIRM INVERT LEVELS O
2. 3.	STARTING DRAINA ALL DRAIN AND SE ALL CAST IRON GU USED APPROPRIA	GE WORK. EWER SYSTEMS OU JLLIES AND MANHO TE BRITISH STANDA	TSIDE BUILDINGS IN ACCORDANCE WITH LES TO BS EN 124, WHERE CONCRETE ( RDS TO APPLY.
<b>1</b> .	ALL DRAINAGE PIE	PES AND MANHOLES	S TO BE CONSTRUCTED IN ACCORDANC OTLAND.
5.	EXCAVATIONS SHA DETERMINE FINAL	AINAGE SYSTEMS A ALL TAKE PLACE PR LINES AND LEVELS	RE SHOWN WITHOUT LEVELS, EXPLORA NOR TO COMMENCEMENT OF THIS WOR S.
,. [_	LOCATION (	COVER TO SOFFIT	BEDDING
	ROADS	>1.2m <1.2m	CLASS 'S' GRANULAR BED AND S
	NON ADOPTABLE SEWERS	>0.9m	CLASS 'S' GRANULAR BED AND S
	BELOW CAR PARKING	<0.9m	CONCRETE PROTECTIO
F	HARD AND SOFT	>0.6m	CLASS 'S' GRANULAR BED AND S
_	UNDERSLAB	-0.0m	CLASS 'S' GRANULAR BED AND S
	MANHOLE/ INSPEC	CTION CHAMBERS/ A	ACCESS FITTING TO COMPLY WITH BS E
	All EXTERNAL PIPE STRUCTURED W. AND BE TERRAC	E WORK TO BE EITH ALL (UNLESS NOTEI OTTA IN COLOUR.	IER SMOOTH WALLED uPVC OR THERMO D OTHERWISE), BE USED UP TO A MAXIM
	ALL PVC AND STR JETTING PRESSUR	UCTURED WALLED RES AS DESCRIBED	PIPES SHALL BE RATED TO WITHSTAND IN WIS 4-35-01.
0.	PIPE JOINTS TO BI GASKET.	E IN ACCORDANCE	WITH BS EN 752 AND TO INCORPORATE
1.	FLEXIBLE/CONTRA INSERTING 20mm I AND TO HEIGHT A	CTION JOINTS ARE FIREBOARD, AT CEN ND WIDTH EQUAL T	TO BE PROVIDED IN CONCRETE SURRC ITRES OF 9m MAXIMUM, PRE-CUT TO PI O THE CONCRETE CROSS SECTION.
2.	ALL DIMENSIONS A	AND LEVELS TO BE IES PRIOR TO COMI	CHECKED ON SITE AND THE ENGINEER MENCEMENT OF WORK.
3. 4.	ALL DRAINAGE TO	BE INSTALLED TO	THE SATISFACTION OF THE LOCAL AUTH
5	OF SEWERS FOR S BUILDINGS UNLES	S OTHERWISE NOT	EN 752 URAINS AND SEWER SYSTEMS C ED. BY SCOTTISH WATER IN ACCORDANCE
э. 6.	ULATEST EDITION C	UNEQUAL DIAMETE	R CONNECT INTO A MANHOLE, PIPE SO
7.	LEVEL UNLESS OT	HERWISE NOTED.	RDANCE WITH BS EN 1610.
В.	ALL WORKS TO TH WATER.	IE PUBLIC SEWERS	TO BE AGREED WITH AND APPROVED B
9.	THE LOCATION OF EXTRACTED FROM MUST VERIFY THE PRIOR TO ANY CO	EXISTING DRAINAG RECORD DRAWING LOCATIONS AND LI NSTRUCTION.	SE INDICATED ON THE DRAWINGS HAS E SS AND SITE SURVEY INFORMATION. TH EVEL OF THE DRAINAGE AFFECTED BY 1
0. 1.	ALL DIMENSIONS	AND LEVELS ARE TO	S REFER TO THE EXISTING UTILITIES D
2.	GROUNDWATER C EXCAVATIONS ARI	ONTROL MEASURE	S MUST BE TAKEN BY THE CONTRACTO
3.	DRAINAGE WORKS	R TO ENSURE NO FI	NES ARE DRAWN FROM THE ADJACENT
4.	THE FOLLOWING (	CONCRETE MIXES A	RE TO BE USED (ALL IN ACCORDANCE V
	CONCRETE SUR	ROUND TO PIPES TO E AND HAUNCH TO M	D BE C20. MANHOLES TO BE C20.
	THE ABOVE CON AND ACEC CLAS DIGEST 1, PART 2	CRETE MIXES IN CO SIFICATION AC2, DE 2, TABLES 5-8.	DNTACT WITH THE GROUND ARE TO BE TERMINED IN ACCORDANCE WITH THE
4.	ALL PRECAST COM DESIGN SULPHATE SPECIAL DIGEST 1	NCRETE PRODUCTS E CLASS DS-2 AND ( AND BS 5911.	: (I.E. PIPE, MANHOLES, RINGS, ETC.) MU CHEMICAL DESIGN DC-3 IN ACCORDANC
5.	ANY DRAINAGE SO CAR LICENSE APP ALTERED TO SUIT	DLUTION WHICH IS S LICATION AND AS S SEPA'S REQUIREM	SHOWN ON THE DRAWINGS MAY BE SUE UCH THE DRAINAGE SOLUTION MAY RE ENTS IN RELATION TO CAR.
RC	ADS FOR ADO	PTION	
	ALL WORK TO COM CONSENT AND AD	MPLY WITH HIGHLAN OPTION".	ND COUNCIL'S "STANDARDS FOR ROAD
	PRIOR TO ROAD C DETAILS OF ANY C THE HIGHLAND C IV3 5NX.	UNSTRUCTION WO APPING TO:- COUNCIL HEADQUAF	KKS, CONTRACTOR TO SUBMIT CBR VAL
	ROAD SIGNS AND "TRAFFIC SIGNS A	MARKINGS TO BE IN ND REGULATION AN	ACCORDANCE WITH THE LATEST EDIT ND GENERAL DIRECTIONS".
ŀ.	THE CONTRACTOR SERVICES PRIOR INFORMATION MU	R IS RESPONSIBLE F TO COMMENCEMEN ST BE REPORTED T	FOR CHECKING THE LINE AND LEVEL OF IT OF WORKS. ANY DISCREPANCIES FRO O THE SITE MANAGER AND SITE ENGINE
	STREET OCCUPAT	TION SHOULD BE SC CING ON A PUBLIC F	DUGHT FROM THE LOCAL AUTHORITY PF
	CYCLEWAYS AND DESIGN" STANDAF	SHARED PEDESTRI. RDS.	AN/CYCLE ROUTES TO COMPLY WITH "C
	PRIOR TO ANY LIG CONTRACTOR MU APPROVAL.	HTING CABLES BEII ST CONTACT THE L	NG BACKFILLED AND COLUMNS BEING E OCAL AUTHORITY'S LIGHTING ENGINEEI
	ALL CABLES TO BE 750mm DEPTH IN C	E WITHIN PVC DUCT CARRIAGEWAYS.	AT 450mm DEPTH IN FOOTPATHS AND
0.	DUCTS TO BE 2 x 1 450mm x 450mm N	00mm COLOURED F	PURPLE SAND BEDDED WITH INDICATOR
J. 1.	DIRECTION AND A	TEACH COLUMN.	150mm ST1 CONCRETE AND A D400 CO
2.	COURSES OF ENG	INEERING BRICK.	E UNDER THE CONTROL OF THE ROADS
	VISIBILITY ENVELO		PT CLEAR OF PLANTING AND OBSTRUC
3.	900mm HIGH POST		ARE TO BE ERECTED TO DELINATE TH
3. 4.	900mm HIGH POST THE VISIBILITY EN DRIVEWAYS ARE T	OPES ARE TO BE KE AND WIRE FENCES VELOPES. O BE DRAINED TO	ARE TO BE ERECTED TO DELINATE THIS
3. 4. 5.	900mm HIGH POST THE VISIBILITY EN DRIVEWAYS ARE T CHANNEL OR GUL FROM THE DRIVEV ALL STREET NAME	DPES ARE TO BE KE AND WIRE FENCES VELOPES. O BE DRAINED TO LY. NO SURFACE W VAYS. EPLATES AND FLAG	THE SURFACE WATER SEWER VIA A PEF ATER SHOULD FLOW ACROSS THE FOO

	SEWERS FOR ADOPTION
	SEWERAGE INSTALLATION WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE LATES EDITION OF SEWERS FOR SCOTLAND.
NGTH TO BE BS ASS 160 TO BS	<ol> <li>SEWERS UP TO A MAXIMUM OF 600mm DIAMETER TO BE:-</li> <li>PVC STRUCTURAL WALL GRAVITY SEWER PIPES WITH MANUFACTURER'S FLEXIBLE JOINT AND COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 13598 AND BS EN 1401-1 (STIFFNESS CLASSIFICATION SN8) AND WIS 4-35-01. THESE WILL ONLY BE PERMITTED FOR COMMEDICAL AND INVESTIGATION SUBJ AND WIS 4-35-01. THESE WILL ONLY BE PERMITTED FOR COMMEDICAL AND INVESTIGATION SUBJ AND WIS 4-35-01. THESE WILL ONLY BE PERMITTED FOR COMMEDICAL AND INVESTIGATION SUBJ AND WIS 4-35-01. THESE WILL ONLY BE PERMITTED FOR COMMEDICAL AND INVESTIGATION SUBJ AND WIS 4-35-01. THESE WILL ONLY BE DESCRIPTION SUBJECT ON SUBJECT OF DEAL OF THE SECOND SUBJECT OF THE SECON</li></ol>
MUST 1-1. NT PROVISIONS	THAT THE EFFLUENT WILL NOT ADVERSELY AFFECT THE STRUCTURAL INTEGRITY OF THE PIPE.
IT REVISIONS OF ITH BS 4660:200.	SEWER DIAMETERS GREATER THAN 600mm TO BE CONCRETE WITH MANUFACTURER'S FLEXIBLE JOINTS AND COMPLY WITH THE RELEVANT PROVISIONS OF BS 5911.     CONCRETE PROTECTION TO SEWERS TO BE IN ACCORDANCE WITH CURRENT SCOTTISH
EMENTS.	WATER SPECIFICATION. CONCRETE PROTECTION SHOWN ON DRAWINGS IS FOR uPVC PIPEWORK AND IS INDICATIVE ONLY. CONCRETE SURROUND IS TO BE USED FOR VITRIFIED CLAY AND CONCRETE PIPEWORK.
BS EN 5911 PART	<ol> <li>MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT CLAUSE OF SEWERS FOR SCOTLAND. SAFETY CHAINS TO BE PROVIDED WHERE OUTLET PIPE IS 600mm OR GREATER. LADDERS TO BE PROVIDED WHERE THE DEPTH IS GREATER THAN 6m.</li> <li>DISCONNECTION CLAMPERS TO BE PROVIDED ON FOLL AND SUPERACE WATER DRAINS</li> </ol>
	500mm Ø NON-ENTRY uPVC CHAMBERS WHERE DEPTH TO INVERT IS 3.0m OR LESS
PRIOR TO	
TH BS EN 752. OR PLASTIC ARE	<ol> <li>GULLY AND PROPERTY CONNECTIONS TO BE 150mm Ø AND POSITIONS TO BE VERIFIED ON SITE PRIOR TO INSTALLATION OF BRANCHES. GULLY LOCATIONS TO BE SET AS PER ROADS</li> </ol>
CE WITH THE	<ol> <li>SEWER LAYING NEAR TO TREES AND TREE PLANTING ADJACENT TO SEWER TO BE INSTALLED IN ACCORDANCE WITH SECTION 2.14.10 OF SEWERS FOR SCOTLAND.</li> </ol>
ATORY RK ELEMENT TO	9. FFL'S TO BE CHECKED AGAINST ARCHITECTS FINAL DRAWINGS PRIOR TO COMMENCEMENT OF SITE WORKS.
	<ol> <li>ALL LEVELS RELATE TO ORDNANCE DATUM.</li> <li>SEWERS SHOULD BE CONSTRUCTED BY A COMPETENT CONTRACTOR AND IN ACCORDANCE</li> </ol>
SURROUND	<ul> <li>WITH THE LATEST EDITION OF SEWERS FOR SCOTLAND.</li> <li>12. APPROPRIATE NOTICE, AND A PROGRAMME OF WORKS SHOULD BE PROVIDED TO SCOTTIS WATER PRIOR TO COMMENCEMENT OF DRAINAGE WORKS, IN ACCORDANCE WITH SCOTTIS WATER'S DOCUMENT "GUIDE FOR OBTAINING NEW WATER AND WASTE WATER SERVICES",</li> </ul>
	ORDER TO ALLOW THEM TO PROGRAMME SITE AUDITS AND TESTING. 13. IN ACCORDANCE WITH THE LATEST EDITION OF SEWERS FOR SCOTLAND AND "GUIDE FOR OBTAINING NEW WATER AND WASTE WATER SERVICES", ONCE THE WORKS ARE COMPLETED, AND SATISFACTORY "AS BUILT" DRAWINGS AND A CCTV SURVEY OF THE WORKS HAVE BEEN SUBMITTED, A COMPLETION CERTIFICATE CAN BE APPLIED FOR. THE
	DEFECTS LIABILITY PERIOD WILL START ONCE THE COMPLETION CERTIFICATE HAS BEEN ISSUED BY SCOTTISH WATER.
SURROUND	PROPERTY IS CONNECTED, WHICHEVER IS LONGER. SCOTTISH WATER WILL OPERATE AND MAINTAIN THE DRAINAGE SYSTEM DURING THE DEFECTS LIABILITY PERIOD, HOWEVER THE DEVELOPER REMAINS RESPONSIBLE FOR ANY REPAIR WORKS REQUIRED DURING THIS PERIOD. DEFECT INFORMATION AS PER SEWERS FOR SCOTLAND 1.3.19 - 1.3.31 INCLUSIVE.
MUM OF 500mm Ø	15. DURING THE FINAL 3 MONTHS OF THE DEFECTS LIABILITY PERIOD, AN APPLICATION CAN BE MADE TO SCOTTISH WATER FOR A TRANSFER CERTIFICATE TO VEST THE DRAINAGE SYSTE WITH THEM.
E A RUBBER	16. PRIOR TO ADOPTION, THE DRAINAGE SYSTEM MUST BE DE-SILTED AND A FURTHER CCTV SURVEY CARRIED OUT. SCOTTISH WATER WILL ALSO CARRY OUT A JOINT INSPECTION OF THE WORKS WITH THE DEVELOPER OR THEIR AGENTS.
OUNDS BY	<ol> <li>DRAINAGE SHOULD BE CONSTRUCTED BASED ON THE INVERT LEVELS PROVIDED ON LONGITUDINAL SECTIONS. GRADIENTS SHOWN SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.</li> </ol>
	<ol> <li>MANHOLE COVER LEVELS TO BE CHECKED AGAINST THE CORRESPONDING ROADS SECTION DRAWINGS PRIOR TO CONSTRUCTION. COVER LEVELS SHOWN SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES</li> </ol>
HORITY.	
ATEST EDITIONS OUTSIDE	WATER MAINS     ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF WATER FO     SCOTLAND PUBLICHED BY WRC PLC
	<ol> <li>ALL SERVICE PIPES TO HAVE 750mm MINIMUM COVER AND MAXIMUM 1350mm COVER TO GROUND LEVEL.</li> </ol>
FFITS TO BE	ALL WATER MAINS TO HAVE 900mm MINIMUM COVER TO THE CROWN OF THE PIPE AND NO'     MORE THAN 1350mm COVER TO GROUND LEVEL, UNLESS OTHERWISE AGREED WITH     SCOTTISH WATER.     ALL BEDDING AND BACK-FILLING MUST BE DONE WITH CERTIFIED INFRT MATERIAL FROM C
BY SCOTTISH	<ul> <li>SITE.</li> <li>ALL BARRIER PIPE JOINTS ARE TO BE PROPRIETY MECHANICAL (FLUID) COMPRESSION JOIN FITTINGS AS APPROVED BY SCOTTISH WATER.</li> </ul>
HE CONTRACTOR THE NEW WORKS	<ol> <li>ALL HPPE JOINTS ARE TO BE BUTT FUSED.</li> <li>PRESSURE TESTING OF THE PROPOSED WATER MAINS TO BE UNDERTAKEN AS PER THE P MANUFACTURER'S TESTING PROCEDURES.</li> </ol>
DRAWINGS.	<ol> <li>THE DEVELOPER WILL REQUIRE TO CHLORINATE THE NEW MAIN IN ACCORDANCE WITH TH WATER BYELAWS. A SAMPLE SHOULD BE TAKEN AND ANALYSED BY AN ACCREDITED LABORATORY, WITH THE RESULTS CERTIFICATE BEING PASSED TO SCOTTISH WATER.</li> </ol>
DR TO ENSURE	9. ALL WORKS CARRIED OUT BY THE DEVELOPER WILL NEED TO BE INSPECTED BY SCOTTISH WATER TO ENSURE COMPLIANCE WITH THE WATER BYELAWS (TRACK AND BYELAWS INSPECTIONS).
SOIL DURING	<ol> <li>ALL BURIED MAINS ARE TO BE INSTALLED WITH PE100 (HPPE) PIPE MATERIAL.</li> <li>MAINS TO BE POSITIONED RELATIVE TO OTHER UTILITIES IN ACCORDANCE WITH APPENDIX OF WATER FOR SCOTLAND UNLESS OTHERWISE NOTED.</li> </ol>
WITH BS 5328):-	<ol> <li>CONSTRUCTION DETAILS TO BE IN ACCORDANCE WITH APPENDIX H OF WATER FOR SCOTLAND UNLESS OTHERWISE NOTED.</li> </ol>
GRADE DS-2 BRE SPECIAL	<ol> <li>MAIN LAYING NEAR TO TREES AND TREE PLANTING ADJACENT TO MAINS TO BE INSTALLED ACCORDANCE WITH SECTION 2.3.10 OF WATER FOR SCOTLAND.</li> <li>ALL SLUICE VALVES TO CLOSE IN ACCORDANCE WITH SCOTTISH WATERS LOCAL POLICY AGREEMENT.</li> </ol>
UST BE TO CE WITH BRE	<ol> <li>ALL LEVELS RELATED TO ORDNANCE DATUM.</li> <li>ALL PLOTS TO BE PROVIDED WITH A SINGLE 25mm Ø CONNECTION UNLESS OTHERWISE NOTED, WORK TO BE CARRIED OUT BY THE SLO, UNITS WITH 5 №. OR MORE BEDROOMS TO DO NOTED WITH A DIVIDE ROW Ø CONNECTION WITH 5 №. OR MORE BEDROOMS TO</li> </ol>
BJECT TO A SEPA	BE PROVIDED WITH A SINGLE 32mm Ø CONNECTION. 17. THE MINIMUM DISTANCE BETWEEN SERVICE CONNECTIONS ON THE WATER MAIN SHALL BI 450mm AND BE INSTALLED FROM THE WATER MAIN AT 90 DEGREES.
	<ol> <li>ALL SERVICE PIPES INSTALLED UNDER DRIVEWAYS TO BE OF BARRIER PIPE MATERIAL.</li> <li>ALL WATER MAIN PIPEWORK TO BE 10 BAR SDR17 PRESSURE RATING.</li> </ol>
	20. EXCEPT WHERE SELF ANCHORING JOINTS ARE USED, THRUSTS FROM BENDS AND BRANCHES SHALL BE RESISTED BY CONCRETE THRUST BLOCKS CAST IN CONTACT WITH UNDISTURBED GROUND.
LUES AND	<ol> <li>21. ANCHORAGE IS REQUIRED AT BRANCHES, BENDS, DEAD ENDS, END FIRE HYDRANT'S OR WASH OUT HYDRANTS, EVEN IF TEMPORARY.</li> <li>22. ALL BARRIER PIPE TO BE IN ACCORDANCE WITH APPENDIX M OF WATER FOR SCOTLAND INFORMATION OF WATER FOR SCOTLAND</li> </ol>
NESS,	<ul> <li>23. ALL MAINS TO BE DESIGNED AND LAID TO BE IN ACCORDANCE WITHIN APPENDIX N OF WATER FOR SCOTLAND UNLESS NOTED OTHERWISE.</li> </ul>
	<ol> <li>ALL BACKFILL AND BEDDING AS PER STANDARD DETAILS AND TO BE IN ACCORDANCE WITH APPENDIX O OF WATER FOR SCOTLAND UNLESS NOTED OTHERWISE.</li> <li>FOR FLATS AND MULTIPLE OCCUPANCY PREMISES. MANIFOLD CONNECTIONS ARE</li> </ol>
EXISTING OM THE DESIGN EER IN WRITING. RIOR TO ANY	<ul> <li>26. ALL JOINTING OF PIPES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENT OF SW'S SPECIFICATION 404 AND AS PER THE JOINTING PROCEDURE IN APPENDIX P FOR ELECTROFUSION AND THE JOINTING METHODS AS DESCRIBED IN PART 3 OF THIS</li> </ul>
CYCLING BY	SPECIFICATION AND THE MANUFACTURER'S RECOMMENDATIONS. SCOTTISH WATER MAY ISSUE A PREFERRED LIST OF MATERIALS AND SIZES. THIS SHALL ENSURE COMPATIBILITY WITH MATERIALS CURRENTLY USED AND ALLOW SCOTTISH WATER TO MINIMISE STOCKS HELD FOR MAINTENANCE PURPOSES. 27. ALL PIPE WORK GREATER THAN 32mm TO BE DESIGNED BY AND CONSTRUCTED BY WIRS
	ACCREDITED COMPANIES. 28. ALL FIRE MAINS MUST BE INSTALLED WITH RED FIRE MARKER TAPE WRAPPED AROUND TH PIPE ALONG THE ENTIRE LENGTH OF THE LAID MAIN AS PER APPENDIX O OF WATER FOR
R TAPE.	29. CONTRACTORS SHOULD BEFORE COMMENCING ON THE CONSTRUCTION OF THE WORKS, WRITTEN AGREEMENT TO THE PROPOSED DESIGN WILL BE REQUIRED FROM SCOTTISH
OAT CHANGES IN	<ul> <li>WATER AND A PRESTART MEETING ARRANGED TO CONFIRM SPECIFICATION COMPLIANCE AND INFORM OF ANY PHASING/TIMESCALE OF THE CONSTRUCTION AS DETAILED IN APPENDIX Q.</li> <li>30. BOUNDARY BOX'S SHALL BE INSTALLED IN THE FOOTWAY OR SERVICE STRIP WITHIN 750MI FROM THE PROPERTY BOUNDARY AND, WHERE POSSIBLE SITED TO AVOID VEHICLE</li> </ul>
S AUTHORITY.	CROSSING POINTS. 31. BOUNDARY BOX TUBES AND COVERS TO BE INSTALLED AS PER BS 5834.
E EXTENT OF	<ol> <li>FOR THE PURPOSES OF METERED CONNECTIONS, SCOTTISH WATER SHALL STATE THEIR PREFERRED METERING OPTIONS INCLUDING METER TYPE AND SIZE.</li> <li>PRESSURE TESTING OF ALL MAINS IS TO ENSURE THE STRUCTURAL INTEGRITY OF THE</li> </ol>
RFORATED DTPATH OR ROAD	CONSTRUCTED ASSET, AND MINIMISE ANY FUTURE LEAKAGE. PRESSURE TESTING IS COMPLETED TO PROVIDE SW WITH THE ASSURANCE THAT THE VESTED ASSET WILL HAVE THE REQUISITE LIFE SPAN BEFORE ANY SW INTERVENTION IS REQUIRED. PRESSURE TESTING SHALL BE COMPLETED AND THE ASSOCIATED REPORTING SHALL BE IN
JLAR STEEL	ACCORDANCE WITH SECTION 3.5 AND IN ACCORDANCE WITH APPENDIX R OF WATER FOR SCOTLAND UNLESS NOTED OTHERWISE.

NOT FOR CONSTRUCTION				
GENERAL NOTES:-				
<ul> <li>THE CONTRACTOR <u>MUST</u> CONSULT THE CIVIL/STRUCTURAL DESIGN ENGINEER IMMEDIATELY IF:</li> <li>a) GROUND CONDITIONS VARY ON SITE.</li> <li>b) EXISTING BUILDINGS VARY ON SITE.</li> <li>c) DIMENSIONS OR LEVELS SHOWN ARE CHANGED BY ANYONE ON SITE.</li> <li>d) COMPLETE OR PARTIALLY COMPLETE STRUCTURES ARE TO BE SUBJECT TO CONSTRUCTION LOADING OR AFFECTED BY TEMPORARY WORKS.</li> </ul>				
DO NOT SCALE - IF IN DOUBT, ASK.				
LARGE SCALE DETAILS TAKE PRECEDENCE OVER SMALL SCALE DETAILS.				
ALL MATERIALS ARE TO BE USED STRICTLY IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.				
THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED IN CHANGES OR MODIFICATIONS REQUESTED AND APPROVED, TO SUIT HIS PREFERRED WORK METHOD.				
ALL NECESSARY METHOD STATEMENTS MUST BE PROVIDED PRIOR TO COMMENCEMENT OF ASSOCIATED SITE OPERATIONS.				
THIS DRAWING SHOULD ONLY BE USED FOR CONSTRUCTION PURPOSES WHEN THE ISSUE STATUS IS "FOR CONSTRUCTION".				
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.				
ALL LEVELS ARE IN METERS UNLESS OTHERWISE STATED.				
(C) THE COPYRIGHT OF THIS DRAWING SUBSISTS WITH RAMSAY & CHALMERS				
A         MJD         -         INITIAL ISSUE.         20/03/2025				
Rev. By App. Description Date				
Project PHASE 2, CROMLET PARK, INVERGORDON.				
Drawing Title CIVIL ENGINEERING / EXTERNAL WORKS NOTES				
Architect COLIN ARMSTRONG ARCHITECTS				
Drawing ID XXX-RAC-XX-XX-DR-C-0960-A				
Job No. Scale Issue Status				
C4933 N/A - A1 FOR INFORMATION				
Ramsay&Chalmers				
Consulting Structural & Civil Engineers				
Chattan Mews Offices, 18 Chattan Place, Aberdeen, AB10 6RD 01224 560700 www.ramsaychalmers.co.uk				



KEY / NUMBER OF HOMES

PHASE 1 - SOCIAL HOUSING **UNDER CONSTRUCTION - COMPLETION EARLY SUMMER 2024** Flats

1B2P flats: 1 bedroom 2 person 1B2P/2B3P flats: 1 bedroom 2 person (capable of adaption to 2 bedroom 3 person)

Cottage Flats 2B3P GF flats: 2 bedroom 3 person on ground fl 2B4P FF flats: 2 bedroom 4 person first floor

Cottage Flats 2B4P flats: 2 bedroom 4 person

4B7P House: 4 bedroom 7 person

3B5P House: 3 bedroom 5 person

3B5P House: 3 bedroom 5 person

(Convertible to 4B7P House)

2B4P House: 2 bedroom 4 person (Convertible to 3B6P House)

3B6P House: 3 bedroom 6 person

<u>TOTAL PHASE 1</u>

Flats

PROPOSED PHASE 2 - SOCIAL HOUSING & MID MARKET RENT

Pavil 182P flats: 1 bedroom 2 person 283P flats: 2 bedroom 3 person

Cottage Flats 2B3P Flats: 2 bedroom 3 person on ground floor 2B4P Flats: 2 bedroom 4 person on ground floor

Flats sub total

3B5P House: 3 bedroom 5 person house

TOTAL PROPOSED PHASE 2

Social Housing = 30 plots MidMarket Rent = 27 plots

PHASE 3 - POSSIBLE PRIVATE HOUSING

Self Build Plots / 3 to 4 Bedroom Homes with garages = 8

TOTAL PHASE 3

RATIO PRIVATE TO TOTAL = 8/100 (8% or 1 in 12)

**OVERALL TOTAL HOMES** 

**GREEN SPACE STRATEGY & BIODIVERSITY NET GAIN: (Phase 2** Development)

<u>Green Space Strategy</u>

The Phase 2 development continues the landscape framework established in Phase 1, incorporating:

Central Open Space: A recreational area for ball games and informal leisure activities, providing a key focal point for community use.

Walking & Cycling Routes: A network of surfaced footpaths connecting Phase 2 with the local path network, Invergordon Station, and the town centre.

Wildlife & Biodiversity Enhancements: Retention of existing trees and meadow grass areas to provide ecological connectivity and habitat value.

Access & Connectivity: New surfaced footpaths linking Phase 2 to Castle Avenue, Gordon Terrace, and Cromlet Park Phase 1. Informal access routes through open spaces to improve permeability and ease of movement.

**Extended Open Space Areas:** Expansion of existing green corridors, ensuring a continuous and cohesive landscape framework that enhances both aesthetic and functional benefits.

**Biodiversity Net Gain Compliance** 

As demonstrated in the Biodiversity Net Gain Calculations Report (November 2024), the proposed development meets the minimum 10% net gain requirement, ensuring biodiversity enhancement beyond standard mitigation measures.

Key BNG Measures: Overall biodiversity net gain of 10.17%, exceeding the planning requirement.

Habitat enhancements, including: Upgrading poor-condition mixed scrub and modified grassland to moderate and good condition. Creating 1.01 BU of other neutral grassland and 0.74 BU of new mixed scrub (medium distinctiveness). Planting 20 small urban trees to enhance canopy cover and ecological diversity.

Establishing 0.69 BU of vegetated garden areas to support pollinators and local fauna. Retention of existing habitat features, such as trees and meadow grass, to support ecological continuity. Full compliance with trading standards, ensuring all created and enhanced habitats sufficiently compensate for biodiversity losses.

Implementation & Compliance The Green Space Strategy and BNG enhancements will be delivered in line with the approved landscape plan, ensuring an integrated approach to ecology and public open space. The construction programme is estimated to be two years, during which phased implementation of landscaping, habitat enhancements, and public open space provision will take place.

	= 6 = 3	
loor	= 2 = 2	
	= 8	
	= 1	
	= 10	
	= 1	
	= 1	
	= 1	
	= 35	

	= 12 = 6
or or	= 3 = 11
	= 32
	= 25
	= 57

= 8

## = 100

Figured dimensions only are to be taken from this drawing. All dimensions are to be checked on site before any work is put in hand. IF IN DOUBT ASK.

Hazard Elimination & Risk Reduction has been undertaken and recorded where appropriate, in accordance with the requirements of "The Construction (Design and Management) Regulations 2015" and the associated "Industry Guidance for Designers"

PROPOSED PHASE 2 PARKING STRATEGY - 57 HOMES
Parking Requirements
In Curtilage Parking Required - 25 House Units Proposed 2.0 spaces x 25 dwellings (upto 4 bedroom) = 50 spaces
<u>Communal Parking Required - 32 Flat Units Proposed</u> 1.2 spaces x 32 flats = 38 spaces of which 2 spaces require to be accessible
<u>Visitor Parking required - 57 Units Proposed</u> 0.3 spaces x 57 units = 17 spaces
Total spaces required = 105
Plus 2no. Additional spaces for future phases
ELECTRIC VEHICLE CHARGING PROVISION STRATEGY:
1 Parking space with EV infrastructure per property, for 50% of properties (+/-5% depending on parking provision)
16 EV dedicated spaces proposed with underground ducting to accommodate the future charge point installation.
PROPOSED CYCLE PARKING STRATEGY:

Based on The Highland Council Roads Guidelines 2013: Table 6.9 Residential Developments each private dwelling are provided with assigned private gardens which can be used for bicycle storage. 20 Communal covered cycle spaces provide for 3 storey flats and 1 Cycle hoop proposed at front of flats for visitors as per the ratio of 1 per 10 flats.

#### **REFUSE STRATEGY:**

Based on The Highland Council Managing Waste in New Developments each dwelling including the flats are provided with assigned private gardens which are used to store 3no. 240L bins on a minimum hardstanding of 1 x 2m, these bins are then taken to bin uplift points **BUP** for collection all within 46m.

## OUTDOOR DRYING STRATEGY:

Each flat & house to have outdoor drying area located in assigned private garden spaces. Minimum 1.7m clothes line per apartment.

## AFFORDABLE HOUSING:

This scheme has been developed with The Highland Council to provide 100% affordable homes.



# Streetscape Frontage Visual 01

as 12/05/25 19/03/25 10/10/24 5lays 16/07/24 20/06/24			
19/03/25 10/10/24 olays 16/07/24 20/06/24			
19/03/25 10/10/24 olays 16/07/24 n links 20/06/24			
10/10/24 olays 16/07/24 1 links 20/06/24			
plays 16/07/24 1 links 20/06/24			
n links 20/06/24			
-			
-			
Date			
ARCHITECTS			
Lyle House, Fairways Business Park, Inverness IV2 6AA			
T - 01 4/2 710 000			
T : 01463 712 288 W : www.colinarmstrong.com			
com			

Housing Development - Phase 02 Cromlet Park Invergordon

#### 2186 Project No.

Drawing No. DIHD23035\_C0017\_ZZ\_00\_DR\_A\_0201

# Revision

Proposed Site Plan

Status s2 - Planning Date Created Drawn by 28/08/23 WM Scale Sheet

06

As indicated

@ A1



CROMLET PARK PHASE 2 HOUSING- BACK PATH BNG TREE PLANTING PLAN 1:250 SCALE





CROMLET PARK PHASE 2 HOUSING- CASTLE AVENUE - BNG TREE PLANTING PLAN 1:250 SCALE

NOTES:

Proposed off-site BNG tree planting to be undertaken in areas owned by The Highland Council using native tree species trees to provide additional biodiversity enhancements in response to Atmos Consulting's PEA and BNGC reports \*^(October 24). 20no. trees to be planted along Castle Avenue and 12no. are to be planted next to the back path open space.

For details of the supplementary native species thicket planting added to habitat area h3h\*^ and open space areas and the planting schedule refer to drawing: DIHD23055-C0571-ZZ-ZZ-DR-L-000002 Rev 1.

#### REVISIONS

1: 20.03.25 Planting plan revised to suit the new CAA site layout: DIHD23035\_C0017\_ZZ\_00\_DR\_A\_0201 Rev 05. Open space paths revised, tree planting, seeding and wildflower seeding revised.Gravel mowing margins added to all units. Rear gardens revised with new bins and paths. Revised entrances to HT07 blocks. Revised gardens at blocks HT08, HT09 and HT11. Additional grass areas at paths in western open space area added.KW 2: 20.05.25 Landscape proposals revised to new site plan with additional footpath link to Castle Avenue.KW

#### KEITH L WOOD LANDSCAPE DESIGN



1,Old Branziet Cottage, Balmore, By Torrance, Glasgow, G64 4AH. Tel : 01360 620358 Mob:07584 054586 email: keith.l.wood@btopenworld.com www.keithlwoodlandscapedesign.scot

Project Title: HOUSING DEVELOPMENT, CROMLET PARK, PHASE 2, INVERGORDON, IV 18 0AH. CLIENT: THE HIGHLAND COUNCIL DRAWING BIODIVERSITY NET GAIN TREE

TITLE: PLANTING PLAN- OFF-SITE AREAS. PLANNING

Scale 1:250@ A1 Date 06.11.24 Drawn k wood Rev. 02 Dwg No. DIHD23035-C0571-ZZ-ZZ-DR-L-000004



#### TREE PIT DETAILS- SELECTED STANDARD TREES

1. Selected standard trees: excavate out 1.2 x 1.2 x 0.6m deep tree pit and break out base for a further 100mm

Supply and spread a 100mm depth of free draining crushed stone (40-60mm size) to base of pits. Backfill pit with site salvaged (or approved premium grade topsoil) and lightly consolidate by foot. Incorporate 75L of PAS 100 soil improver into backfill mix during planting. Ensure good contact between backfilled topsoil and tree roots (rootball) to reduce any voids in

backfilled tree pit material.

- 2. Supply and plant proposed selected standard trees ensuring that the tree is vertical and planted at the nursery soil mark.
- 3. Install double 50mm machine rounded stakes (FSC Certified and Scottish provenance) driven (vertically) into base of tree pits and finished with a straight top at 0.6m above finished ground level. Stakes to be spaced out to accommodate the proposed Holdfast spacer sleeves.
- Install and secure the tree stem with 2 no. Holdfast HR40 belting with Holdfast HSS40L spacer sleeves. 4. Belting to be nailed to stakes at 50mm below top of stakes.
- Supply and install a Mono Relief Grande irrigation pipe, 60mm diameter with Aria inlet (ref: MRG 5-5. Green-tech.) around tree rootball and finish inlet at around level.
- Supply and spread a 50mm depth of composted bark mulching around tree base.
- Thoroughly water newly planted trees as per the quantities listed below. 7.

#### TREE PIT DETAILS- STANDARD TREES

- 1. Standard trees: excavate out 1.0 x 1.0 x 0.6m deep tree pit and break out base for a further 100mm. Supply and spread a 100mm depth of free draining crushed stone (40-60mm size) to base of pits. Backfill pit with site salvaged (or approved premium grade topsoil) and lightly consolidate by foot. Incorporate 50L of PAS 100 soil improver into backfill mix during planting.
- Ensure good contact between backfilled topsoil and tree roots (rootball) to reduce any voids in backfilled tree pit material.
- 2. Supply and plant proposed feathered and standard trees ensuring that the tree is vertical and planted at the nursery soil mark.
- Install single 50mm machine rounded stakes (FSC Certified and Scottish Provenance) driven (vertically) into base of tree pits and finished with a straight top at 0.5m above finished ground level.
- Install and secure the tree stem with 1 no. Holdfast HR40 belting with Holdfast HB3 rubber block. Block to be nailed to stakes at 50mm below top of stakes.
- Supply and install a Mono Relief irrigation pipe, 35mm diameter (ref: MR3 Green-tech.) around tree roots 5. and finish inlet at ground level.
- Supply and spread a 50mm depth of composted bark mulching around tree base.
- Thoroughly water newly planted trees as per the quantities listed below.

#### TREE PIT DETAILS- FEATHERED / LIGHT STANDARD TREES

- 1. Feathered / light standard trees: excavate out 0.9 x 0.9 x 0.6m deep tree pit and break out base for a further 100mm
- Supply and spread a 100mm depth of free draining crushed stone (40-60mm size) to base of pits. Backfill pit with site salvaged (or approved premium grade topsoil) and lightly consolidate by foot. Incorporate 50L of PAS 100 soil improver into backfill mix during planting. Ensure good contact between backfilled topsoil and tree roots (rootball) to reduce any voids in backfilled tree pit material.
- 2. Supply and plant proposed feathered and standard trees ensuring that the tree is vertical and planted at the nursery soil mark.
- Install single 50mm machine rounded stakes (FSC Certified and Scottish Provenance) driven (vertically) into base of tree pits and finished with a straight top at 0.5m above finished ground level.
- Install and secure the tree stem with 1 no. Holdfast HR40 belting with Holdfast HB3 rubber block. Block to be nailed to stakes at 50mm below top of stakes.
- Supply and install a Mono Relief irrigation pipe, 35mm diameter (ref: MR2 Green-tech.) around tree roots 5. and finish inlet at ground level.
- Supply and spread a 50mm depth of composted bark mulching around tree base.
- 7. Thoroughly water newly planted trees as per the quantities listed below.

#### HEDGING / SHRUB BEDS

- 1. Hedging trench: excavate out a 450mm wide x 450mm deep trench in topsoiled areas and backfilled with a premium grade topsoil. Supply and spread a 35mm deep layer of PAS 100 soil improver over hedging trench and work into soil during planting.
- 2. Shrub beds: Supply and spread a 450mm depth of premium quality topsoil over a clean de-compacted subsoil layer. Supply and spread a a 35mm layer of PAS 100 soil improver and work into soil during cultivations.
- Cultivate shrub beds and remove any stones greater than 35mm and pit plant shrubs (300 x 300 x 300mm 3. deep pits) and heel in shrubs after planting.
- Supply and spread a 50mm depth of composted bark mulching over hedging bases and shrub beds.
- Rabbit protection fencing: Supply and install rabbit protection fencing to hedging and shrub bed areas as 5. directed by Tulloch Homes / Landscape Architect. (See detail below.)

#### NEW TREE PLANTING WATERING REQUIREMENTS- (The Aboricultural Association.)

- New trees should be watered in when planted and at the point of bud burst in spring, and should continue to be watered throughout spring and summer until the leaves have fallen in autumn. Evergreens should be watered a little during winter in response to a period of dry weather. Watering should continue for at least 3 summers after planting, further to this the tree should be able to access water from the surrounding soil.
- During the height of summer water should be applied at a rate of 20 litres of water every other day, or a minimum of 50 litres of water per week, during May, June, July and August. (This figure is the aim to reach during the height of summer and can be gradually be increased to this in spring and decreased before ceasing watering in the autumn.
- If the tree has an irrigation pipe then half of the water should be poured down the pipe and the other half on the surface of the tree pit.
- Ensure water is draining away after 10 minutes after application.
- Timings and frequency of watering visits, based on the above quantities for the newly planted trees should

be agreed with the Project Landscape Architect or Landscape Manager, to tie in with the prevailing weather conditions during the five year establishment period.

#### REVISIONS

- 1: 20.03.25 Planting plan revised to suit the new CAA site layout: DIHD23035\_C0017\_ZZ\_00\_DR\_A\_0201 Rev 05. Open space paths revised, tree planting, seeding and wildflower seeding revised.Gravel mowing margins added to all units. Rear aardens revised with new bins and paths Revised entrances to HT07 blocks. Revised gardens at blocks HT08, HT09 and HT11. Additional grass areas at paths in western open space area added.KW
- 2: 20.05.25 Landscape proposals revised to new site plan with additional footpath link to Castle Avenue.KW

## **KEITH L WOOD** LANDSCAPE DESIGN



1,Old Branziet Cottage, Balmore, By Torrance, Glasgow, G64 4AH. Tel: 01360 620358 Mob:07584 054586 email: keith.l.wood@btopenworld.com www.keithlwoodlandscapedesign.scot

Project Title: HOUSING DEVELOPMENT, CROMLET PARK, PHASE 2, INVERGORDON, IV 18 0AH.			
CLIENT:	THE HIGHLAND COUNCIL		
DRAWING LANDSCAPE PROPOSALS- TITLE: PLANTING DETAILS			
PLANNING			
Scale	1:25@ A2	Date 30.10.23	
Drawn	k wood	Rev. 02	
Dwg No.			
DIHD23035-C0571-ZZ-ZZ-DR-L-000003			



	Height	Girth	Pot Size	Specification	Density	Numbe
utinosa	250-300cm	8-10cm	bare-root	Standard :8 brks :2x	Counted	1
pendula	250-300cm	8-10cm	bare-root	Standard :8 brks :2x	Counted	2
endula 'Fastigiata'	300-350cm	10-12cm	Rootballed	Selected Standard :8 brks :2x	Counted	4
oubescens	150-175cm		bare-root	Feather :3 brks :2x	Counted	6
s betulus 'Fastigiata'	300-350cm	10-12cm	Rootballed	Selected Standard :4 brks :2x	Counted	1
gus monogyna	250-300cm	8-10cm	Rootballed	Standard :4 brks :2x	Counted	4
gus monogyna 'Stricta'	300-350cm	10-12cm	Rootballed	Selected Standard :4 brks :2x	Counted	4
Ivatica	80-100cm		bare-root	1+2 :Transplant :4 brks	5/m	837
dvestris	250-300cm	8-10cm	Rootballed	Standard :3 brks :2x	Counted	3
padus	250-300cm	8-10cm	bare-root	Standard :3 brks :2x	Counted	14
adus	150-175cm		bare-root	Feather :5 brks :2x	Counted	3
s petraea	250-300cm	8-10cm	Rootballed	Standard :3 brks :2x	Counted	6
s petraea	150-175cm		bare-root	Feather :3 brks :2x	Counted	12
prea	150-175cm		bare-root	Feather :3 brks :2x	Counted	2
erea	150-175cm		bare-root	Feather :3 brks :2x	Counted	2
aucuparia	150-175cm		bare-root	Feather :3 brks :2x	Counted	5
aucuparia	300-350cm	10-12cm	Rootballed	Selected Standard :4 brks :2x	Counted	7
aucuparia 'Fastigiata'	300-350cm	10-12cm	Rootballed	Selected Standard :4 brks :2x	Counted	3
ppaea	350-400cm	14-16cm	Rootballed	Extra Heavy Standard :4 brks :3x	Counted	4

	Height	Pot Size	Specification	Density	Number
chier canadensis	80-100cm	10L	Several shoots :3/4 brks	Counted	2
sanguinea 'Midwinter Fire'	50-60cm	3L	Bushy :3 brks	3/m²	18
maxima 'Purpurea'	80-100cm	10L	Bushy specimen :4 brks	Counted	1
a `Gold digger'	30-40cm	3L	Bushy :4 brks	3/m²	31

/ Hawthorn Hedg	ging mix					
S	Height	Pot Size	Specification	Density	Percentage Contribution	Number
gus monogyna	80-100cm	Bare root	1+1: Transplants: 3 brks	5/m	45%	263
ylvatica	80-100cm	Bare root	1+2: Transplants: 4 brks	5/m	45%	263
a periclymenum	40-60cm	200cc	Cell grown transplant	5/m	10%	62
						Total :588

sHeightPot SizeSpecificationDensityPercentage ContributionNumberavellana40-50cm200ccCell grown transplant1/m²25%71scoparius40-50cm200ccCell grown transplant1/m²10%32uifolium40-50cm200ccCell grown transplant1/m²20%59anina40-50cm200ccCell grown transplant1/m²15%46ruticosus40-50cm200ccCell grown transplant1/m²15%46urita40-50cm200ccCell grown transplant1/m²15%46	species th	ICKET MIX					
avellana       40-50cm       200cc       Cell grown transplant       1/m²       25%       71         scoparius       40-50cm       200cc       Cell grown transplant       1/m²       10%       32         uifolium       40-50cm       200cc       Cell grown transplant       1/m²       20%       59         anina       40-50cm       200cc       Cell grown transplant       1/m²       15%       46         ruticosus       40-50cm       200cc       Cell grown transplant       1/m²       15%       46         urita       40-50cm       200cc       Cell grown transplant       1/m²       15%       46	S	Height	Pot Size	Specification	Density	Percentage Contribution	Number
scoparius         40-50cm         200cc         Cell grown transplant         1/m²         10%         32           uifolium         40-50cm         200cc         Cell grown transplant         1/m²         20%         59           anina         40-50cm         200cc         Cell grown transplant         1/m²         15%         46           ruticosus         40-50cm         200cc         Cell grown transplant         1/m²         15%         46           urita         40-50cm         200cc         Cell grown transplant         1/m²         15%         46	avellana	40-50cm	200cc	Cell grown transplant	1/m²	25%	71
uifolium         40-50cm         200cc         Cell grown transplant         1/m²         20%         59           anina         40-50cm         200cc         Cell grown transplant         1/m²         15%         46           ruticosus         40-50cm         200cc         Cell grown transplant         1/m²         15%         46           vrita         40-50cm         200cc         Cell grown transplant         1/m²         15%         46	scoparius	40-50cm	200cc	Cell grown transplant	1/m²	10%	32
anina         40-50cm         200cc         Cell grown transplant         1/m²         15%         46           ruticosus         40-50cm         200cc         Cell grown transplant         1/m²         15%         46           vrita         40-50cm         200cc         Cell grown transplant         1/m²         15%         46	Jifolium	40-50cm	200cc	Cell grown transplant	1/m²	20%	59
ruticosus         40-50cm         200cc         Cell grown transplant         1/m²         15%         46           vrita         40-50cm         200cc         Cell grown transplant         1/m²         15%         46	anina	40-50cm	200cc	Cell grown transplant	1/m²	15%	46
rita 40-50cm 200cc Cell grown transplant 1/m <sup>2</sup> 15% 46	ruticosus	40-50cm	200cc	Cell grown transplant	1/m²	15%	46
	urita	40-50cm	200cc	Cell grown transplant	1/m²	15%	46
							Total :300



20.03.25 Landscape plan revised to suit the

REVISIONS

Dwg No. DIHD23035-C0571-ZZ-ZZ-DR-L-000002





150mm Ø, 1:20 DENOTES SURFACE WATER SEWER.

150mm Ø, 1:20 DENOTES FOUL WATER SEWER.

- \_\_\_\_\_ DENOTES PRIVATE ROADS DRAINAGE.

DENOTES SURFACE WATER MANHOLE.

- - DENOTES FOUL WATER MANHOLE.

150mm Ø, 1:20 DENOTES EXISTING SURFACE WATER SEWER.

150mm Ø, 1:20 DENOTES EXISTING FOUL WATER SEWER.

DENOTES GULLY AND TAIL.

DENOTES ACO-CHANNEL.

DENOTES SURFACE WATER DISCONNECTION MANHOLE.

DENOTES FOUL WATER DISCONNECTION MANHOLE.

#### NOTE

ALL PIPEWORK TO BE UPVC UNLESS OTHERWISE NOTED.

## NOTE

DOOR THRESHOLD DETAILS TO BE CONFIRMED BY ARCHITECT.

#### NOTE

PLEASE NOTE THIS DRAWING IS SUBJECT TO SCOTTISH WATER TECHNICAL APPROVAL.

ABSOLUTE MINIMUM COVER TO PIPE SOFFIT						
PIPE MATERIAL	COVER TO SOFFIT					
DUCTILE IRON	550mm					
FIRECLAY	750mm (PIPE TO HAVE CONCRETE ENCASURE)					
PLASTIC	850mm (PIPE TO HAVE CONCRETE PROTECTION)					

#### NOTE

PROPERTY CONNECTIONS SHALL BE CONSTRUCTED AT THE SAME TIME AS THE MAIN SEWERS. A DISCONNECTING CHAMBER SHALL BE CONSTRUCTED ON EACH CONNECTION AND SHALL BE LOCATED AS NEAR AS POSSIBLE TO THE CURTILAGE BOUNDARY OR HEEL OF THE FOOTPATH, AND IDEALLY IN DRIVEWAYS.

#### MANHOLE DIAMETERS

DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE
LESS THAN 375	1200
375 - 450	1350
450 - 700	1500
750 - 1050	1800
1125 - 1500	2100
>1500	CONSULT SCOTTISH WATER

#### NOTE

ALL DRAINAGE DETAILS TO COMPLY WITH THE LATEST EDITIONS OF THE SEWERS FOR SCOTLAND DOCUMENTATION.

#### NOTE

SITE LAYOUT BASED ON COLIN ARMSTRONG ARCHITECTS DRAWING "(PROPOSED SITE PLAN)" RECEIVED ON 19.03.2025.

## NOTE

TOPOGRAPHICAL SURVEY BASED ON (PROPERTY AND LAND SURVEYS) PROJECT '(1102201)'. DATE RECEIVED 11.10.2022.

# NOT FOR CONSTRUCTION

#### GENERAL NOTES:-

THE CONTRACTOR <u>MUST</u> CONSULT THE CIVIL/STRUCTURAL DESIGN ENGINEER IMMEDIATELY IF:
a) GROUND CONDITIONS VARY ON SITE.
b) EXISTING BUILDINGS VARY ON SITE.
c) DIMENSIONS OR LEVELS SHOWN ARE CHANGED BY ANYONE ON SITE.
d) COMPLETE OR PARTIALLY COMPLETE STRUCTURES ARE TO BE SUBJECT TO CONSTRUCTION LOADING OR AFFECTED BY TEMPORARY WORKS.

DO NOT SCALE - IF IN DOUBT, ASK. LARGE SCALE DETAILS TAKE PRECEDENCE OVER SMALL SCALE DETAILS.

ALL MATERIALS ARE TO BE USED STRICTLY IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED IN CHANGES OR MODIFICATIONS REQUESTED AND APPROVED, TO SUIT HIS PREFERRED WORK METHOD. ALL NECESSARY METHOD STATEMENTS MUST BE PROVIDED PRIOR TO COMMENCEMENT OF

ASSOCIATED SITE OPERATIONS. THIS DRAWING SHOULD ONLY BE USED FOR CONSTRUCTION PURPOSES WHEN THE ISSUE STATUS IS "FOR CONSTRUCTION".

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.

ALL I	EVELS	ARE I	N METERS UNLESS OTHERWISE STATED.	
	C	THE C	OPYRIGHT OF THIS DRAWING SUBSISTS WITH RAMSAY & CHALMERS	
G	MJD	-	PARKING AND FOOTWAYS REVISED BASED ON COMMENTS.	19.03.202
F	NJH	MJD	GENERAL UPDATE BASED ON SCOTTISH WATER COMMENTS.	16.01.202
Е	NJH	MJD	GENERAL UPDATE BASED ON PLANNING COMMENTS.	01.10.202
D	MJD	-	DRAINAGE REVISED TO PLANNING COMMENTS.	05.07.202
С	MJD	-	DEVELOPMENT RED BOUNDARY UPDATED.	08.12.202
В	JCB	MJD	CELLULAR STORAGE UPDATED. BACKGROUND LAYOUT UPDATED.	13.11.202
A	JCB	MJD	INITIAL ISSUE.	13.10.202
Rev.	Ву	App.	Description	Date

## PHASE 2, CROMLET PARK, INVERGORDON.

Drawing Title

Architect

Project

DRAINAGE LAYOUT.

COLIN ARMSTRONG ARCHITECTS

XX-RAC-Z	XX-RAC-ZZ-XX-DR-C-0170-F						
o No.	Scale	Issue Status					

1:500 - A1 1:1000 - A3 C4933

# Ramsay&Chalmers

FOR PLANNING

Consulting Structural & Civil Engineers Chattan Mews Offices, 18 Chattan Place, Aberdeen, AB10 6RD 01224 560700 www.ramsaychalmers.co.uk



- A. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS
- B. FINAL LOCATION OF CHICANE TO BE DECIDED ON SITE BY ENGINEER.
- C. HOOPS TO BE 100mm, HOT DIP GALVANIZED STEEL TO BS EN 150146. ANY DAMAGE TO THE GALVANIZED FINISH TO BE MADE GOOD WITH ZINC RICH PAINT OF A LEAST EQUAL THICKNESS TO THE GALVANIZED ALL TO BS EN 12944: 1998.
- D. SURFACING TO BE MADE GOOD AROUND CHICANE FOOTINGS TO MATCH SURROUNDING PATH AND TO PREVENT PONDING.
- E. BARRIER TO TIE IN WITH PROPOSED/EXISTING FENCES AND/OR GATE POSTS TO PROPOSED/EXISTING ACCESS GATE.



#### NOT FOR CONSTRUCTION

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THE CONTRACTOR <u>MUST</u> CONSULT THE CIVIL/STRUCTURAL DESIGN ENGINEER IMMEDIATELY IF: a) GROUND CONDITIONS VARY ON SITE. b) EXISTING BUILDINGS VARY ON SITE c) DIMENSIONS OR LEVELS SHOWN ARE CHANGED BY ANYONE ON SITE. d) COMPLETE OR PARTIALLY COMPLETE STRUCTURES ARE TO BE SUBJECT TO CONSTRUCTION LOADING OR AFFECTED BY TEMPORARY WORKS.

DO NOT SCALE - IF IN DOUBT, ASK.

LARGE SCALE DETAILS TAKE PRECEDENCE OVER SMALL SCALE DETAILS.

ALL MATERIALS ARE TO BE USED STRICTLY IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED IN CHANGES OR MODIFICATIONS REQUESTED AND APPROVED, TO SUIT HIS PREFERRED WORK METHOD.

ALL NECESSARY METHOD STATEMENTS MUST BE PROVIDED PRIOR TO COMMENCEMENT OF ASSOCIATED SITE OPERATIONS.

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ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.

ALL LEVELS ARE IN METERS UNLESS OTHERWISE STATED.

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А	MJD	-	INITIAL ISSUE.	05.07.2024
Rev.	Ву	App.	Description	Date

roject

#### PHASE 2, CROMLET PARK, INVERGORDON.

Drawing Title

#### TYPICAL BAFFLE BARRIER DETAIL.

Architect

C4933

COLIN ARMSTRONG ARCHITECTS
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rawing ID XXX-RAC-ZZ-XX-DR-C-0164-A

Status

AS SHOWN - A3

FOR PLANNING

# Ramsay&Chalmers

Consulting Structural & Civil Engineers Chattan Mews Offices, 18 Chattan Place, Aberdeen, AB10 6RD 01224 560700 www.ramsaychalmers.co.uk



	SCANIA RESCUE DUMD 18	т
	8351	
5		*****
`\		
	OVERALL LENGTH	8.351 m
		3.0 m
	MINIMUM BODY GROUND CLEARANCE	0.337 m
	TRACK WIDTH	2.8 m
		6.00 SEC
	WALL TO WALL TURNING RADIUS	8.500 m
	NOTE	
$\langle \langle \langle \rangle \rangle \rangle$	SITE LAYOUT BASED ON COLIN ARMSTRONG ARCHI	TECTS
	DRAWING "(PROPOSED SITE PLAN)" RECEIVED ON 1	9.03.2025.
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### LEGEND

DENOTES SERVICE STRIP IN ADOPTABLE ROADS. DENOTES SERVICE STRIP IN PRIVATE ROADS.

NOTE

ALL SERVICES TO BE PLACED IN FOOTWAYS OR VERGES OF THE ADOPTABLE ROADS.

## NOTE

SITE LAYOUT BASED ON COLIN ARMSTRONG ARCHITECTS DRAWING "(PROPOSED SITE PLAN)" RECEIVED ON 19.03.2025.

## NOTE

TOPOGRAPHICAL SURVEY BASED ON (PROPERTY AND LAND SURVEYS) PROJECT '(1102201)'. DATE RECEIVED 11.10.2022.

GENERAL NOTES:- THE CONTRACTOR MUST CONSULT THE CIVIL/STRUCTURAL DESIGN ENGINEER IMMEDIATE a) GROUND CONDITIONS VARY ON SITE. b) EXISTING BUILDINGS VARY ON SITE. c) DIMENSIONS OR LEVELS SHOWN ARE CHANGED BY ANYONE ON SITE. d) COMPLETE OR PARTIALLY COMPLETE STRUCTURES ARE TO BE SUBJECT TO CONSTRUCTION LOADING OR AFFECTED BY TEMPORARY WORKS. DO NOT SCALE - IF IN DOUBT, ASK. LARGE SCALE DETAILS TAKE PRECEDENCE OVER SMALL SCALE DETAILS.	ELY IF:							
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C MJD - DEVELOPMENT RED BOUNDARY UPDATED. 08	12.202							
B MJD - BACKGROUND LAYOUT REVISED. 13	.11.202							
A JCB MJD INITIAL ISSUE. 13	.10.202							
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PHASE 2, CROMLET PARK, INVERGORDON.								
SERVICE ROUTES.								
Architect COLIN ARMSTRONG ARCHITECTS								
Drawing ID XXX-RAC-ZZ-XX-DR-C-0162-F								
Job No. Scale Issue Status								
C4933 1:500 - A1 1:1000 - A3 FOR PLANNING								
Ramsay&Chalmers								
Consulting Structural & Civil Engineers								
Chattan Mews Offices, 18 Chattan Place, Aberdeen, AB10 6RD 01224 560700								
www.ramsaychalmers.co.uk								









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NOTE

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NOTE

TOPOGRAPHICAL SURVEY BASED ON (PROPERTY AND LAND SURVEYS) PROJECT '(1102201)'. DATE RECEIVED 11.10.2022.

NOTE

ALL DRIVEWAY GRADIENTS WILL BE A MAXIMUM OF 5% (1 IN 20).

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 Rev. By App. Description Date roject PHASE 2, CROMLET PARK, INVERGORDON. Drawing Title OVERLAND FLOW ROUTES. Architect COLIN ARMSTRONG ARCHITECTS Drawing ID XXX-RAC-ZZ-XX-DR-C-0160-F Issue Status Job No. Scale 1:500 - A1 1:1000 - A3 C4933 FOR PLANNING Ramsay&Chalmers Consulting Structural & Civil Engineers Chattan Mews Offices, 18 Chattan Place, Aberdeen, AB10 6RD 01224 560700 www.ramsaychalmers.co.uk