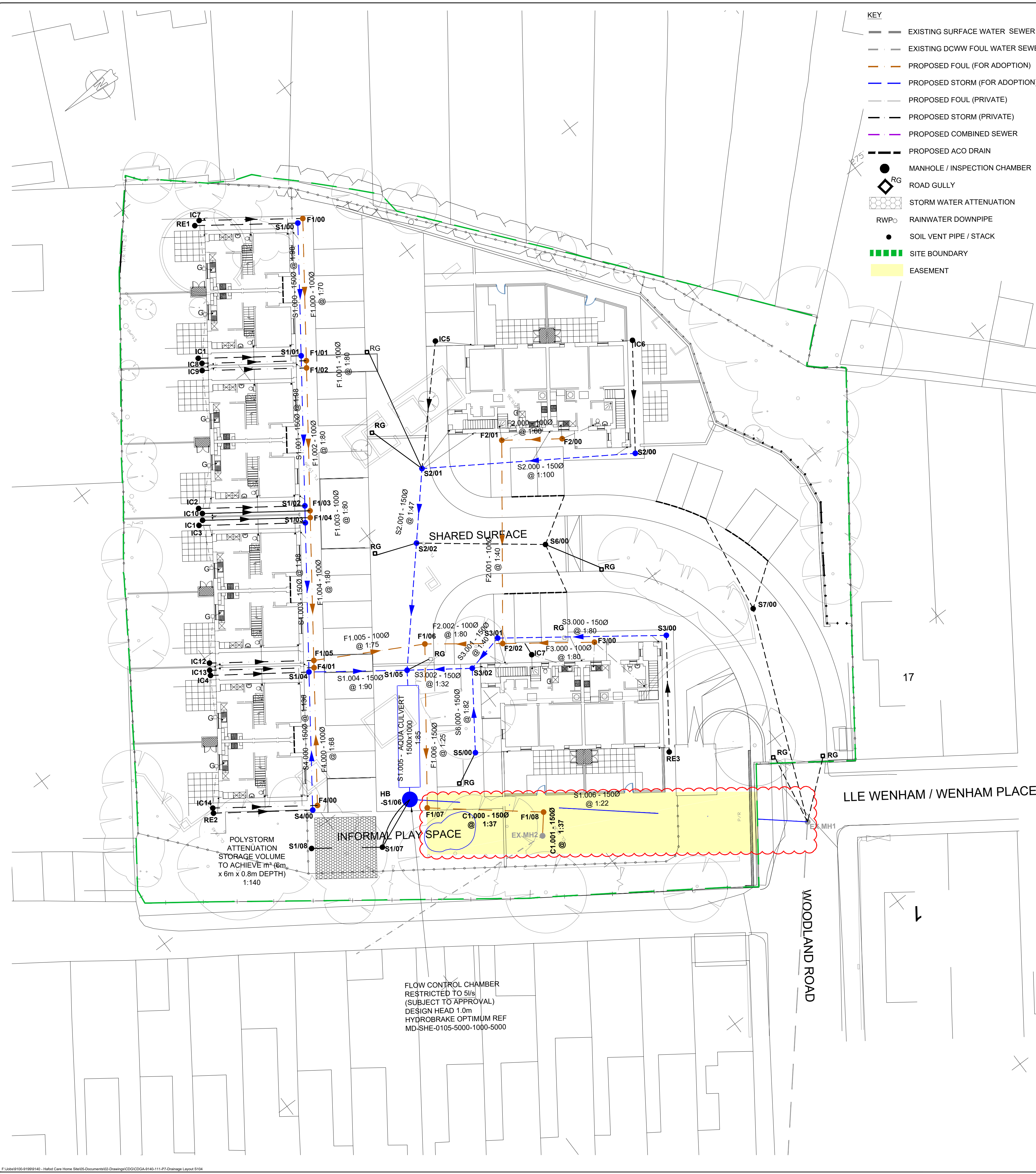




- KEY**
- EXISTING SURFACE WATER SEWER
 - EXISTING DCWW FOUL WATER SEWER
 - PROPOSED FOUL (FOR ADOPTION)
 - PROPOSED STORM (FOR ADOPTION)
 - PROPOSED FOUL (PRIVATE)
 - PROPOSED STORM (PRIVATE)
 - PROPOSED COMBINED SEWER
 - PROPOSED ACO DRAIN
 - MANHOLE / INSPECTION CHAMBER
 - ROAD GULLY
 - STORM WATER ATTENUATION
 - RWP RAINWATER DOWNPIPE
 - SOIL VENT PIPE / STACK
 - SITE BOUNDARY
 - EASEMENT

MANHOLE SCHEDULE - EXISTING						
Manhole Number	Cover Level	Depth To Invert	Connections	Inverts	Pipe diam	Manhole Type/Size
EX - MH1	16.77	1.42	1	1	15.35	AS EXISTING
EX - MH2	18.30	1.42	1	1	16.68	AS EXISTING

MANHOLE SCHEDULE - STORM WATER						
Manhole Number	Cover Level	Depth To Invert	Connections	Inverts	Pipe diam	Manhole Type/Size
MH - S1/00	18.85	1.00	1	1	17.85	TYPE 3 4500 B125
MH - S1/01	18.90	1.20	1	1	17.70	TYPE 3 4500 B125
MH - S1/02	19.00	1.40	2	2	17.60	TYPE 3 4500 B125
MH - S1/03	19.00	1.45	2	2	17.55	TYPE 3 4500 B125
MH - S1/04	19.00	1.60	2	2	17.40	TYPE 3 4500 B125
MH - S1/05	19.00	1.70	2	2	17.30	TYPE 3 4500 D400
MH - S1/06	18.70	1.55	1	1	17.15	TYPE 3 4500 D400
MH - S2/00	19.10	1.15	0	0	17.95	TYPE 3 4500 B125
MH S2/01	19.10	1.30	1	1	17.80	TYPE 3 4500 D400
MH S2/02	19.00	1.25	2	2	17.75	TYPE 3 4500 D400
MH - S3/00	18.75	0.95	0	0	17.80	TYPE 3 4500 B125
MH - S3/01	18.80	1.20	1	1	17.60	TYPE 3 4500 B125
MH - S3/02	18.75	1.25	0	0	17.50	TYPE 3 4500 B125
MH - S4/00	18.85	1.35	1	1	17.50	TYPE 3 4500 B125
MH - S5/00	19.00	1.40	0	0	17.60	TYPE 3 4500 B125
MH - S6/00	18.80	1.40	0	0	17.90	TYPE 3 4500 D400
MH - S7/00	18.25	0.4	0	0	17.85	TYPE 3 4500 D400

MANHOLE SCHEDULE - FOUL WATER						
Manhole Number	Cover Level	Depth To Invert	Connections	Inverts	Pipe diam	Manhole Type/Size
MH - F1/00	19.00	0.575	1	1	18.425	TYPE 3 4500 B125
MH - F1/01	18.95	0.725	2	2	18.225	TYPE 3 4500 B125
MH - F1/02	18.95	0.725	2	2	18.225	TYPE 3 4500 B125
MH - F1/03	18.95	0.875	2	2	18.075	TYPE 3 4500 B125
MH F1/04	19.00	0.975	2	2	18.025	TYPE 3 4500 B125
MH F1/05	19.00	1.05	3	3	18.875	TYPE 3 4500 B125
MH F1/06	19.00	1.20	2	2	17.80	TYPE 3 4500 C250
MH - F1/07	18.70	1.60	1	1	17.10	TYPE 3 4500 B125
MH - F1/08	18.70	1.42	1	1	16.80	TYPE 3 4500 B125
MH F2/00	19.10	1.10	0	0	18.50	TYPE 3 4500 B125
MH F2/01	19.00	0.60	1	1	18.40	TYPE 3 4500 B125
MH F2/02	18.85	0.95	2	2	17.90	TYPE 3 4500 B125
MH F3/00	18.75	0.85	1	1	18.10	TYPE 3 4500 B125
MH F4/00	18.95	0.85	0	0	18.05	TYPE 3 4500 B125
MH F4/01	18.95	0.90	2	2	18.05	TYPE 3 4500 B125

ONLINE STORAGE TO BE ONE SINGLE BOX CULVERT OR ONE OVERSIZED PIPE. TOTAL VOLUME 12.7m³

1.4m WIDE X 0.9m DEEP X 10m LONG

THE DEVELOPER MUST SELF-VET AND CERTIFY THAT THE DESIGN CRITERIA, MATERIAL STANDARDS AND WORKMANSHIP SPECIFICATION FOR THE PROPOSED ADOPTABLE SEWERS ARE IN ACCORDANCE WITH THOSE SET OUT IN THE WELSH MINISTER STANDARDS, 'SEWERS FOR ADOPTION' 7th EDITION AND THE REQUIREMENTS OF DWR CYMRU WELSH WATER AS THE STATUTORY SEWERAGE UNDERTAKER.

UPON COMPLETION OF THE SECTION 104 ADOPTION AGREEMENT, A SECTION 106 APPLICATION TO CONNECT MUST BE MADE TO DCWW. THE DEVELOPER SHALL GIVE 21 DAYS NOTICE PRIOR TO CONNECTION. THE WORKS MAY ONLY BE UNDERTAKEN BY A SUPS ACCREDITED CONTRACTOR COMPLYING WITH DWR CYMRU WELSH WATER'S ACCESS TO ASSETS POLICY.

ALL ADOPTABLE SEWERS OR LATERAL DRAINS ARE TO BE LAID AT A MAXIMUM GRADIENT OF 1:5. WHERE SITE LAYOUT DICTATES A RAMPED BACKDROP MAY BE UTILISED, ALTHOUGH STEEPER GRADIENTS ARE PREFERRED, AND SHOULD BE PROVIDED WHERE PRACTICABLE.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT CDM REGULATIONS 2015 AND HSG150. IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, PLEASE NOTE THE FOLLOWING:

- ALL LEVELS ARE IN METERS.
- DO NOT SCALE FROM THIS DRAWING, USE FIGURED DIMENSIONS ONLY.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH THE LATEST ENGINEERS, ARCHITECT'S DRAWINGS & SPECIFICATIONS.
- ALL RELEVANT DRAINAGE AND ASSOCIATED WORKS TO BE LAID IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION AND BUILDING REGULATIONS PART H (2010) UNLESS OTHERWISE STATED.
- LOCATION OF R.W.P.'S AND S.V.P.'S ARE INDICATIVE TO BE CONFIRMED BY ARCHITECT DURING DETAILED DESIGN.
- COVERS TO BE APPROPRIATELY CLASSED, D400 FOR VEHICLE ACCESS AND B125 FOR PEDESTRIAN ONLY AREAS
- ALL SURFACE WATER PIPES TO BE 110mm DIA. OSMA ULTRARIB (EXCEPT WHERE INDICATED OTHERWISE), OR SIMILAR APPROVED.
- ROCKER PIPES TO BE 600mm LONG TO ALL MANHOLES.
- ALL PIPEWORK TO HAVE A FULL GRANULAR BED AND SURROUND (TYPE S) UNLESS NOTED OTHERWISE.
- ALL PIPES BENEATH VEHICULAR CIRCULATION AREAS, WHERE COVER TO PIPE IS LESS THAN 1200mm RECEIVE A FULL CONCRETE SURROUND (TYPE Z).
- ALL SADDLE CONNECTIONS TO BE FORMED USING PROPRIETARY JUNCTION SECTIONS
- WHERE APPLICABLE CONCRETE BENCHING TO MANHOLES TO RECEIVE A 20mm THICK GRANULITHIC RENDER TROWELLED HARD, PROVIDING A DENSE DURABLE SMOOTH FINISH.
- ALL MANHOLE COVERS WITHIN VEHICULAR AREAS TO BE NON-ROCKING TYPE.
- ALL S.V.P.'S TO HAVE RODDING ACCESS POINT.
- THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES TO VERIFY LOCATION AND DEPTHS PRIOR TO ANY CONSTRUCTION WORK BEING UNDERTAKEN.
- ALL PIPES AND FITTINGS TO BE PROPRIETARY PLASTIC SYSTEM COMPLYING WITH BSEN1401-1:1998 AND BUILDING REGULATIONS DOC. H.
- WHERE PIPES PASS THROUGH FOUNDATIONS OR WALLS:
 - CAST IN THE PIPE, MAKE JOINTS APPROX. 150mm EITHER SIDE & ADD 500mm LENGTH OF ROCKER PIPE. OR
 - SLEEVE PIPES WITH 50mm CLEARANCE ALL ROUND, COLLARED TO EXCLUDING DEBRIS.
- PIPES BELOW BUILDING TO BE IN 6.0m LENGTHS.
- INLET AND OUTLET PIPES TO BE LAID WITH LEVEL SOFFITS.
- REFER TO CONSTRUCTION STAGE EXTERNAL LEVELS DRAWING TO CONFIRM COVER LEVELS.

ALL DRAINAGE PROPOSALS TO BE CARRIED OUT IN FULL AGREEMENT WITH DCWW UNDER SECTION S104

FOR DRAINAGE DETAILS REFER TO DRAWING CDGA-9140-112

FOR DRAINAGE LONGSECTIONS REFER TO DRAWING CDGA-9140-113

BELOW GROUND SERVICES / UTILITY INFORMATION NOT KNOWN

THIS IS NOT A CONSTRUCTION DRAWING

P7	COMBINED CONNECTION REVISED	GJ	11/10/2019
P6	S6/00 & IC5 REPOSITIONED	GJ	12/06/2019
P5	DRAINAGE REVISED INLINE WITH DWG 102/C4	TM	28/09/2018
P4	YELLOW EASEMENT AMENDED	GJ	20/07/2018
P3	AQUA CULVERT ADDED	GJ	22/05/2018
P2	REVISED DCWW ISSUE	GJ	19/04/2018
P1	DCWW ISSUE	GJ	27/02/2018
REV	DESCRIPTION	BY	DATE

status

FOR APPROVAL

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client	POBL GROUP		
project	HAFOD CARE HOME		
drawing title	SECTION 104 DRAINAGE LAYOUT		
drawn	GJ	chd	LKJ
date drawn	27/02/2018	project no.	9140
scale @A1	1:200 @ A1	drawn no.	111
		rev.	P7