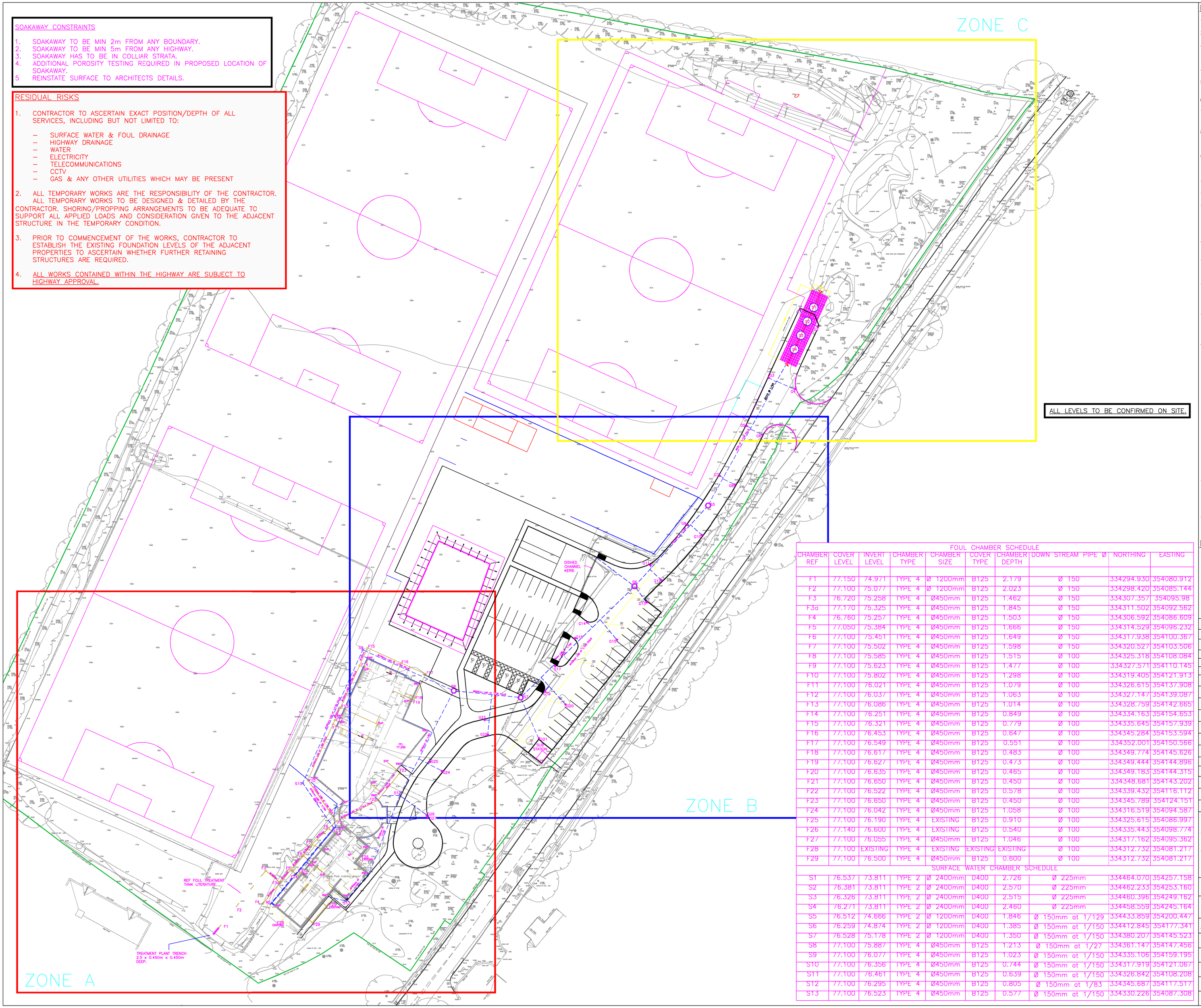
SOAKAWAY CONSTRAINTS

1. SOAKAWAY TO BE MIN 2m FROM ANY BOUNDARY.
2. SOAKAWAY TO BE MIN 5m FROM ANY HIGHWAY.
3. SOAKAWAY HAS TO BE IN COLLIAR STRATA.
4. ADDITIONAL POROSITY TESTING REQUIRED IN PROPOSED LOCATION OF SOAKAWAY.
5 REINSTATE SURFACE TO ARCHITECTS DETAILS.

RESIDUAL RISKS

1. CONTRACTOR TO ASCERTAIN EXACT POSITION/DEPTH OF ALL SERVICES, INCLUDING BUT NOT LIMITED TO:
   - SURFACE WATER & FOUL DRAINAGE
   - HIGHWAY DRAINAGE
   - WATER
   - ELECTRICITY
   - TELECOMMUNICATIONS
   - CCTV
   - GAS & ANY OTHER UTILITIES WHICH MAY BE PRESENT
2. ALL TEMPORARY WORKS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL TEMPORARY WORKS TO BE DESIGNED & DETAILED BY THE CONTRACTOR. SHORING/PROPPING ARRANGEMENTS TO BE ADEQUATE TO SUPPORT ALL APPLIED LOADS AND CONSIDERATION GIVEN TO THE ADJACENT STRUCTURE IN THE TEMPORARY CONDITION.
3. PRIOR TO COMMENCEMENT OF THE WORKS, CONTRACTOR TO ESTABLISH THE EXISTING FOUNDATION LEVELS OF THE ADJACENT PROPERTIES TO ASCERTAIN WHETHER FURTHER RETAINING STRUCTURES ARE REQUIRED.
4. ALL WORKS CONTAINED WITHIN THE HIGHWAY ARE SUBJECT TO HIGHWAY APPROVAL.



FOUL CHAMBER SCHEDULE

CHAMBER REF	COVER LEVEL	INVERT LEVEL	CHAMBER TYPE	CHAMBER SIZE	COVER TYPE	CHAMBER DEPTH	DOWN STREAM PIPE Ø	NORTHING	EASTING
F1	77.150	74.971	TYPE 4	Ø 1200mm	B125	2.179	Ø 150	334294.930	354080.912
F2	77.100	75.077	TYPE 4	Ø 1200mm	B125	2.023	Ø 150	334298.420	354085.144
F3	76.720	75.258	TYPE 4	Ø450mm	B125	1.462	Ø 150	334307.357	354095.98
F3a	77.170	75.325	TYPE 4	Ø450mm	B125	1.845	Ø 150	334311.502	354092.562
F4	76.760	75.257	TYPE 4	Ø450mm	B125	1.503	Ø 150	334306.592	354086.609
F5	77.050	75.384	TYPE 4	Ø450mm	B125	1.666	Ø 150	334314.529	354096.232
F6	77.100	75.451	TYPE 4	Ø450mm	B125	1.649	Ø 150	334317.938	354100.367
F7	77.100	75.502	TYPE 4	Ø450mm	B125	1.598	Ø 150	334320.527	354103.506
F8	77.100	75.585	TYPE 4	Ø450mm	B125	1.515	Ø 100	334325.318	354108.084
F9	77.100	75.623	TYPE 4	Ø450mm	B125	1.477	Ø 100	334327.571	354110.145
F10	77.100	75.802	TYPE 4	Ø450mm	B125	1.298	Ø 100	334319.405	354121.913
F11	77.100	76.021	TYPE 4	Ø450mm	B125	1.079	Ø 100	334326.615	354137.908
F12	77.100	76.037	TYPE 4	Ø450mm	B125	1.063	Ø 100	334327.147	354139.087
F13	77.100	76.086	TYPE 4	Ø450mm	B125	1.014	Ø 100	334328.759	354142.665
F14	77.100	76.251	TYPE 4	Ø450mm	B125	0.849	Ø 100	334334.163	354154.653
F15	77.100	76.321	TYPE 4	Ø450mm	B125	0.779	Ø 100	334335.645	354157.939
F16	77.100	76.453	TYPE 4	Ø450mm	B125	0.647	Ø 100	334345.284	354153.594
F17	77.100	76.549	TYPE 4	Ø450mm	B125	0.551	Ø 100	334352.001	354150.566
F18	77.100	76.617	TYPE 4	Ø450mm	B125	0.483	Ø 100	334349.774	354145.626
F19	77.100	76.627	TYPE 4	Ø450mm	B125	0.473	Ø 100	334349.444	354144.896
F20	77.100	76.635	TYPE 4	Ø450mm	B125	0.465	Ø 100	334349.183	354144.315
F21	77.100	76.650	TYPE 4	Ø450mm	B125	0.450	Ø 100	334348.681	354143.202
F22	77.100	76.522	TYPE 4	Ø450mm	B125	0.578	Ø 100	334339.432	354116.112
F23	77.100	76.650	TYPE 4	Ø450mm	B125	0.450	Ø 100	334345.789	354124.151
F24	77.100	76.042	TYPE 4	Ø450mm	B125	1.058	Ø 100	334316.519	354094.587
F25	77.100	76.190	TYPE 4	EXISTING	B125	0.910	Ø 100	334325.615	354086.997
F26	77.140	76.600	TYPE 4	EXISTING	B125	0.540	Ø 100	334335.443	354098.774
F27	77.100	76.055	TYPE 4	Ø450mm	B125	1.046	Ø 100	334317.162	354095.362
F28	77.100	EXISTING	TYPE 4	EXISTING	EXISTING	EXISTING	Ø 100	334312.732	354081.217
F29	77.100	76.500	TYPE 4	Ø450mm	B125	0.600	Ø 100	334312.732	354081.217
SURFACE WATER CHAMBER SCHEDULE									
S1	76.537	73.811	TYPE 2	Ø 2400mm	D400	2.726	Ø 225mm	334464.070	354257.158
S2	76.381	73.811	TYPE 2	Ø 2400mm	D400	2.570	Ø 225mm	334462.233	354253.160
S3	76.326	73.811	TYPE 2	Ø 2400mm	D400	2.515	Ø 225mm	334460.396	354249.162
S4	76.271	73.811	TYPE 2	Ø 2400mm	D400	2.480	Ø 225mm	334458.559	354245.164
S5	76.512	74.666	TYPE 2	Ø 1200mm	D400	1.846	Ø 150mm at 1/129	334433.859	354200.447
S6	76.259	74.874	TYPE 2	Ø 1200mm	D400	1.385	Ø 150mm at 1/150	334412.845	354177.341
S7	76.528	75.178	TYPE 2	Ø 1200mm	D400	1.350	Ø 150mm at 1/150	334380.207	354145.523
S8	77.100	75.887	TYPE 4	Ø450mm	B125	1.213	Ø 150mm at 1/27	334361.147	354147.456
S9	77.100	76.077	TYPE 4	Ø450mm	B125	1.023	Ø 150mm at 1/150	334335.106	354159.195
S10	77.100	76.356	TYPE 4	Ø450mm	B125	0.744	Ø 150mm at 1/150	334317.919	354121.067
S11	77.100	76.461	TYPE 4	Ø450mm	B125	0.639	Ø 150mm at 1/150	334326.842	354108.208
S12	77.100	76.295	TYPE 4	Ø450mm	B125	0.805	Ø 150mm at 1/83	334345.687	354117.517
S13	77.100	76.523	TYPE 4	Ø450mm	B125	0.577	Ø 150mm at 1/150	334330.226	354087.308

NOTES

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL LEVELS IN METERS UNLESS NOTED OTHERWISE ON DRAWING.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEER'S AND ARCHITECT'S DRAWINGS AND RELEVANT SPECIFICATION CLAUSES.
4. PLEASE REFER TO ARCHITECTS DRAWINGS FOR FINAL BUILDING LOCATION.
5. ALL DRAINAGE COMPONENTS ARE TO COMPLY WITH CURRENT BRITISH STANDARDS AND BUILDING REGULATIONS REQUIREMENTS.
6. ALL WORKS TO IN ACCORDANCE WITH ROADS FOR ADOPTION IN WREXHAM.
7. ALL WORKS AND MATERIALS TO BE IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS (SHW SERIES 500).
8. DRAIN PIPE THROUGH WALLS OR BENEATH FOUNDATIONS (SPREAD ONLY) TO HAVE R.C BRIDGE LINTELS OVER AND PIPE SURROUNDED IN FLEXIBLE MATERIAL (50mm).
9. FINAL LOCATIONS AND DETAILS OF SOIL VENT PIPES, STUB STACKS, RAINWATER DOWN PIPES, GULLIES ETC. TO BE CONFIRMED BY REFERENCE TO ARCHITECT' DRAWINGS.
10. ALL THRESHOLD DRAIN DETAILS TO BE TO ARCHITECT' DETAILS.
11. ALL PIPES INTO CHAMBERS TO SOFFIT TO SOFFIT U.N.O.
12. AT ALL OUTFALL POINTS TO AN EXISTING NETWORK, THE POSITION AND INVERT LEVEL OF EXISTING DRAINS MUST BE CONFIRMED WELL IN ADVANCE OF THE PROGRAMMED DATE FOR INSTALLING ANY OF THE UPSTREAM DRAINAGE, OR ORDERING OF ANY MATERIALS IN ORDER TO ALLOW TIME FOR ANY NECESSARY REVISIONS TO THE HYDRAULIC DESIGN.
13. ALL GRAVITY UPVC PIPEWORK TO BE TO BS 4660 OR BS 5481 WHERE RELEVANT UNLESS NOTED OTHERWISE.
14. ALL NON ADOPTABLE DOMESTIC FOUL AND SURFACE WATER PIPE RUNS SHALL CONSIST OF 100MM DIA. PIPES LAID AT NO FLATTER THAN 1 IN 80 FALLS U.N.O.
15. ALL CONNECTIONS FROM HIGHWAY GULLIES & ACO SUMPS TO BE 150mm DIA. LAID AT FALLS OF BETWEEN 1 IN 20 AND 1 IN 100 WITH TYPE S BED AND SURROUND TO ALL CONNECTIONS WITH MIN. 1.20m COVER, TYPE Z BED AND SURROUND TO ALL OTHER CONNECTIONS.
16. THERMOPLASTIC PIPES & FITTINGS:
    THERMOPLASTIC PIPES, JOINTS & FITTINGS FOR GRAVITY SEWERS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 1401-1, BS EN 1852 & BS EN 12666-1.
17. THERMOPLASTIC STRUCTURED WALL PIPE:
    THERMOPLASTIC STRUCTURED WALL SEWER PIPE SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 13476-1 & WIS 4-35-01 AND BS EN 13476-2 OR BS EN 13476-3. PIPES SHALL BE BSI KITEMARKED OR HAVE EQUIVALENT THIRD PART CERTIFICATION. PIPES LESS THAN OR EQUAL TO 500mm IN DIAMETER SHALL HAVE NOMINAL SHORT-TERM RING STIFFNESS NOT LESS THAN 8KN/m² (SN8) OR BE SUBJECT TO A QUALITY SYSTEM FOR STORAGE & EMBEDMENT.

    Nom. SHORT TERM RING STIFFNESS OF 2KN/m² (SN2) IS ACCEPTABLE FOR PIPES GREATER THAN ø500mm, SUBJECT TO SUPPORTING STRUCTURAL DESIGN LOAD CALCULATIONS BEING PROVIDED.

    TRANSPORTATION, HANDLING, STORAGE AND LAYING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

    WHERE A FITTING IS INSTALLED ON A SEWER LENGTH, IT SHALL HAVE THE SAME INTERNAL BORE AS THE SEWER. Max. LENGTH OF PIPE FOR LAYING IS 3.0m OR ø x 10, WHICHEVER IS THE GREATER, UNLESS WELDED JOINTS ARE USED.
18. CONNECTION TO THE PUBLIC SEWER
    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 DCWW HEALTH AND SAFETY APPROVED CONTRACTOR.
19. OPTIMUM TRENCH WIDTH
    OPTIMUM TRENCH WIDTH = PIPE + 300mm. CONTRACTOR TO ENSURE TRENCH WALLS ARE SUITABLY PROPPED.

KEY

- DENOTES PROPOSED PRIVATE FOUL CHAMBER & PIPE RUN.
- DENOTES PROPOSED PRIVATE SURFACE WATER CHAMBER & PIPE RUN.
- RE DENOTES PROPOSED RODDING EYE.
- G DENOTES PROPOSED HIGHWAY GULLY (Ø150mm CONNECTION).
- DENOTES PROPOSED EXISTING DRAINGAE TO BE REMOVED.

Revisions.

Revision	Made by	Date	Checked	Description
P	BRP	21/05/19		"As Built" Issue.
O	K.B.	18/03/19	I.R.	G13, G15, G20 & G21 MOVED TO SUIT FALLS
N	K.B.	18/03/19	I.R.	AMENDED ARCHITECTS LAYOUT ADDED.
M	K.B.	04/03/19	I.R.	ROAD 3 GULLIES AMENDED SLIGHTLY.
L	K.B.	13/02/19	B.T.	ADD SUB STATION, ADJUST GULLY 21
K	K.B.	21/11/18	B.T.	CHAMBER SCHEDULE UPDATED TO SUIT SECTIONS
J	R.T.	09/11/18	B.T.	CHAMBER SCHEDULE UPDATED TO SUIT SECTIONS
I	K.B.	07/11/18	B.T.	MINOR AMENDMENTS MADE TO FOUL DRAINAGE
H	B.T.	24/09/18	I.R.	CO'ORDINATES ADDED TO CHAMBER SCHEDULE
G	K.B.	30/08/18	I.R.	AMENDED TO SUIT DRAINAGE SECTIONS
F	K.B.	17/08/18	I.R.	RE-POSITION FOUL TREATMENT TANKS & FURTHER INFORMATION ADDED
E	K.B.	27/07/18	I.R.	RE-POSITION FOUL TANKS
D	K.B.	24/07/18	I.R.	DRAINAGE AMENDED
C	K.B.	20/07/18	I.R.	SOAKAWAY TRENCH OMITTED, DRAINAGE. RE-ARRANGED.
B	B.T.	16/05/18	B.T.	LAYOUT AMENDED TO REDUCE CONSTRUCTION COSTS WHERE POSSIBLE.
A	K.B.	15/02/18	B.T.	ADD TREATMENT PLANT TRENCH AND AMEND POSITION OF TANK.

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b.r.p Bingham Rawlings Partnership Limited

Project	COLLIERS PARK, WREXHAM.
Drawing Title	PROPOSED DRAINAGE LAYOUT OVERALL.
Architect	LAWRAY ARCHITECTS
Client	WALES FOOTBALL ASSOCIATION
Scale	1/500
Drawn	B.Thorne
Date	26/01/18
Checked	I.Rowlands

3829 | EW06

Revision P