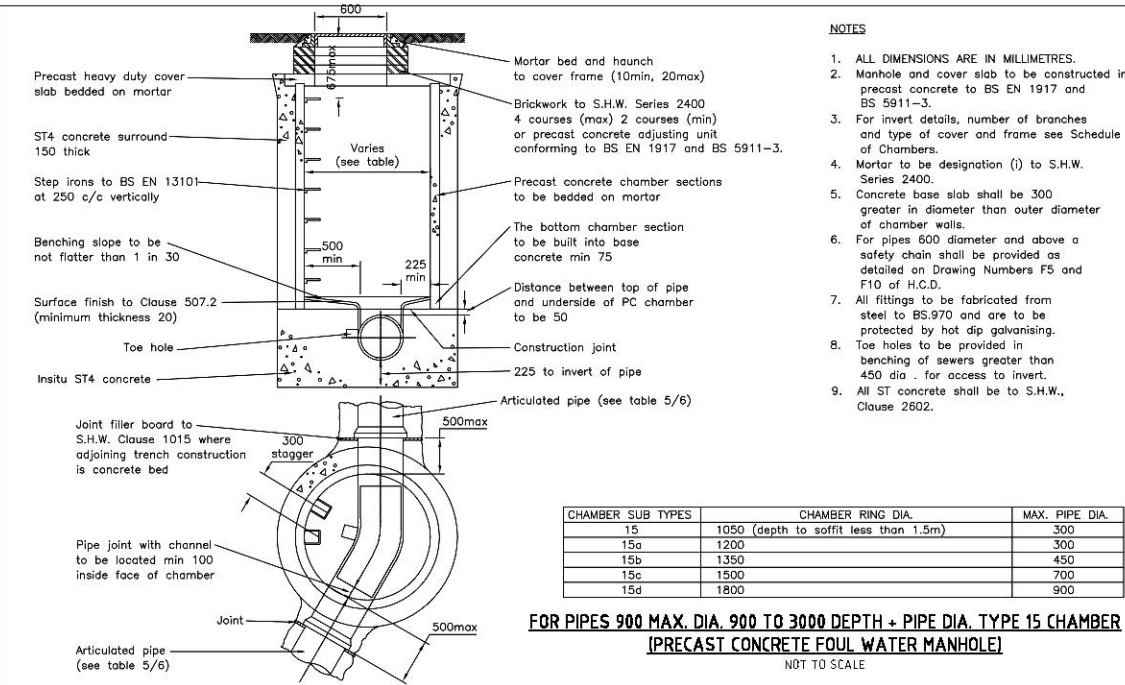
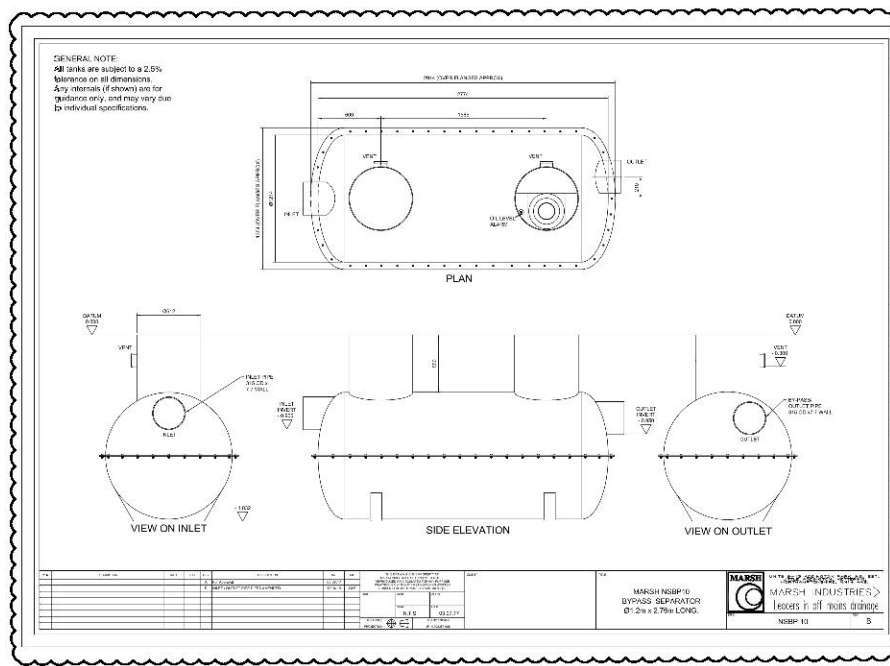




- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. Manhole and cover slab to be constructed in precast concrete to BS EN 1917 and BS 5911-3.
 3. For invert details, number of branches and type of cover and frame see Schedule of Chambers.
 4. Mortar to be designation (i) to S.H.W. Series 2400.
 5. Concrete base slab shall be 300 greater in diameter than outer diameter of chamber walls.
 6. For pipes 600 diameter and above a safety chain shall be provided as detailed on Drawing Numbers F5 and F10 of H.C.D.
 7. All fittings to be fabricated from steel to BS 970 and are to be protected by hot dip galvanising.
 8. Toe holes to be provided in benching of sewers greater than 450 dia. for access to invert.
 9. All ST concrete shall be to S.H.W., Clause 2602.

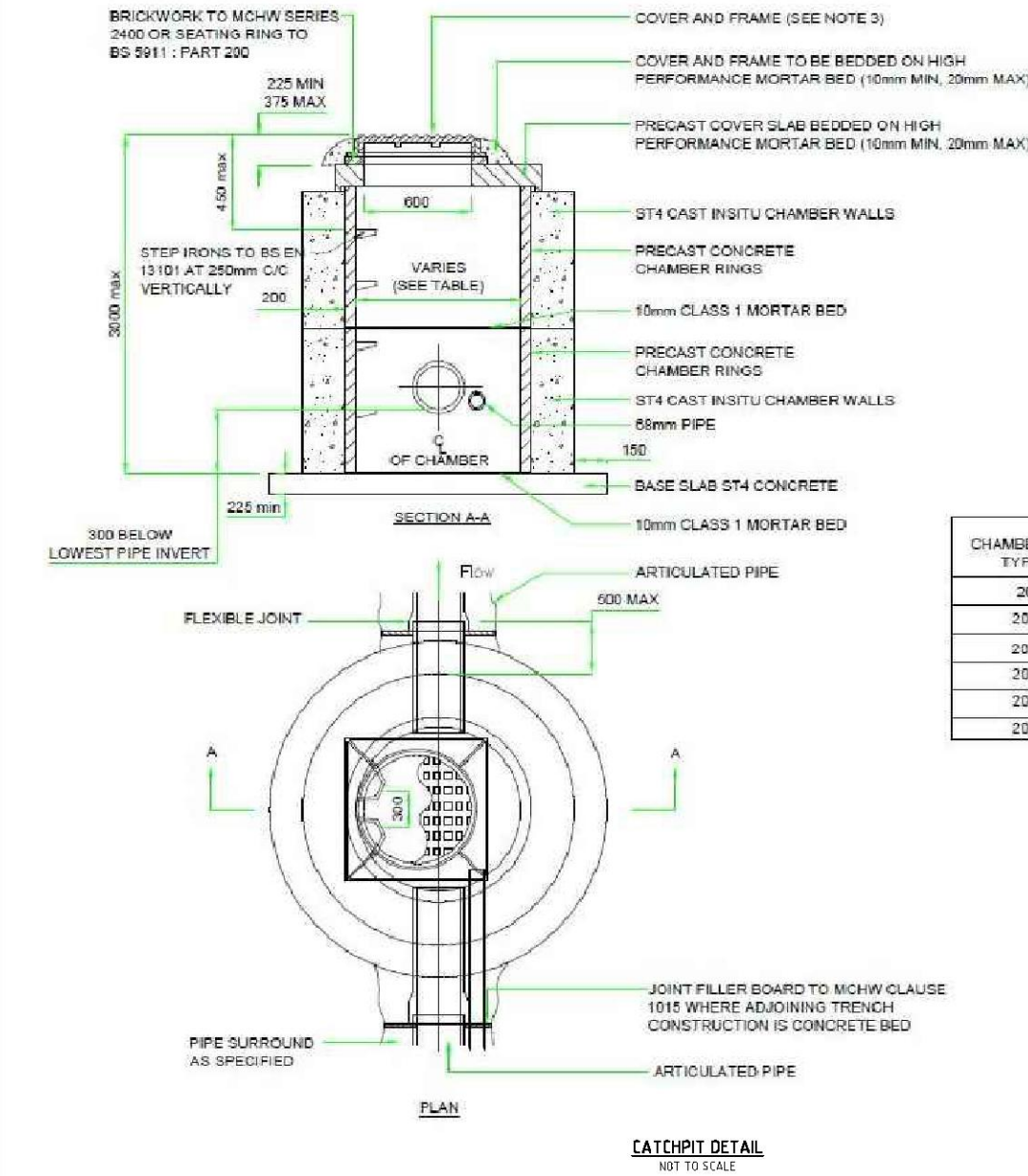


NO DIMENSIONS TO BE SCALED FROM THIS DRAWING	
Status Code Definition	S3 - Suitable for Review & Comment

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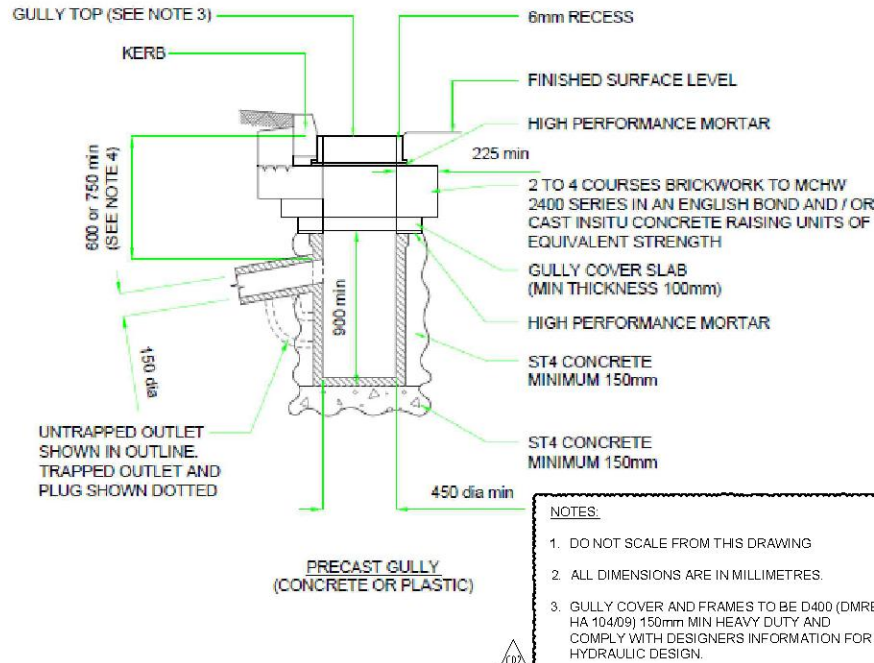
Proposed Gully Schedule			
Manhole Name	Invert & Pipe Dia	Easting (m)	Northing (m)
G14	IL=7.390 150Ø	588107.19	190541.69
G13	IL=7.450 150Ø	588102.02	190543.56
G10	IL=7.311 150Ø	588123.76	190506.77
G9	IL=7.311 150Ø	588118.80	190506.91
G8	IL=7.311 150Ø	588124.51	190521.19
G7	IL=7.312 150Ø	588119.51	190521.36
G6	IL=7.566 150Ø	588117.79	190546.44

Proposed Gully Schedule			
Manhole Name	Invert & Pipe Dia	Easting (m)	Northing (m)
G5	IL=7.534 150Ø	588114.57	190542.31
G4	IL=7.977 150Ø	588107.00	190568.66
G3	IL=7.977 150Ø	588102.03	190568.99
G2	IL=8.383 150Ø	588108.97	190594.62
G1	IL=8.334 150Ø	588103.34	190594.63



- NOTES
1. DO NOT SCALE FROM THIS DRAWING.
 2. ALL DIMENSIONS ARE IN MILLIMETRES.
 3. GULLY COVER AND FRAMES TO BE D400 (DMRB HA 104/09) 150mm MIN HEAVY DUTY AND COMPLY WITH DESIGNERS INFORMATION FOR HYDRAULIC DESIGN.

CHAMBER SUB TYPES	CHAMBER RING DIA.	MAX PIPE DIA.
20	1050	450
20a	1200	600
20b	1350	875
20c	1500	900
20d	1800	1200
20e	2100	



HIGHWAY_SW Adoptable Manhole Schedule									
Manhole Name	Manhole Size	Cover Level	Invert & Pipe Dia	Depth	MH Invert	Easting (m)	Northing (m)	MH Type - Cover size/Type - Access	
SWPCCMH1	1200mmØ	9.112	Pipe21 Inv In = 7.74 150mmØ Pipe22 Inv In = 7.74 150mmØ Pipe1 Inv Out = 7.745 225mmØ	137	7.745	588104.36	190591.66	Type 15, Cover: 600 x 600mm, D400	Catch-pit 300mm Sump
SWPCCMH3	1200mmØ	8.660	Pipe1 Inv In = 7.46 225mmØ Pipe19 Inv In = 7.46 150mmØ Pipe20 Inv In = 7.46 150mmØ Pipe3 Inv Out = 7.456 225mmØ	120	7.456	588103.44	190562.77	Type 15, Cover: 600 x 600mm, D400	Catch-pit 300mm Sump
SWPCCMH4	1200mmØ	8.423	Pipe3 Inv In = 7.14 225mmØ Pipe6 Inv In = 7.14 150mmØ Pipe9S Inv In = 7.14 150mmØ Pipe86 Inv Out = 7.144 225mmØ	128	7.144	588111.70	190548.78	Type 15, Cover: 600 x 600mm, D400	Catch-pit 300mm Sump
SWPCCMH5	1200mmØ	8.283	Pipe108 Inv In = 6.98 225mmØ Pipe109 Inv Out = 6.978 225mmØ	124	7.046	588121.33	190537.75	Type 15, Cover: 600 x 600mm, D400	Catch-pit 300mm Sump
SWPCCMH12	1200mmØ	7.809	Pipe9 Inv In = 6.75 225mmØ Pipe11 Inv In = 6.75 225mmØ Pipe16 Inv In = 6.75 150mmØ Pipe10 Inv Out = 6.749 150mmØ	106	6.749	588121.70	190507.93	Anglian Water - Manhole Type E, Cover: 600 x 600mm, D400	
SWPCCMH15	1200mmØ	7.680	Pipe10 Inv In = 6.73 150mmØ Pipe17 Inv In = 6.73 150mmØ Pipe18 Inv In = 6.73 150mmØ Pipe32 Inv Out = 6.732 150mmØ	0.95	6.732	588119.93	190504.25	Anglian Water - Manhole Type E, Cover: 600 x 600mm, D400	
Oil Int	Dependant on manufacturer. HARSH INDUSTRIES Oil Int. is Ø12m x 2.76m Long	CL1 = 8.289 CL2 = 8.302	Inv In = 7.048 225mmØ Inv Out = 6.948 225mmØ	124	7.048	588121.67	190510.45	Petrol/Oil bypass separator NSBP 10 Cover and frame in accordance with Essex Highway Specification.	

FOR APPROVAL			
C02	Notes added to gully & catchpit details, SW drainage schedule updated, oil bypass separator details updated.	27/01/21	CDT JGW
C01	Issued for Construction	14/02/20	AXP JGW
P04	Updated to ECC Highways comments	13/12/19	T.H JGW
P03	Gully diagram updated, filter drain detail removed	06/12/19	CDT JGW
P02	Gully diagram updated	08/07/19	SKJ MCH
P01	For technical approval	16/11/18	CDT JGW
Revisions		Date	Drawn Chkd

CL ENT

Essex CC - Essex Housing

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DRAWING TITLE S.38 Highway Drainage Details	PICK EVERARD PROJECT No. 160953 SCALE - unless otherwise stated AS SHOWN at A1
DRAWING NUMBER ESS001-PEV-XX-ZZ-DR-C-0900 Project Originator Zone Location Type Role Number	STATUS S3 FOR APPROVAL REV C02