



2. ALL NEW PIPEWORK TO BE WAVIN OSMADRAIN OR WAVIN ULTRARIB UPVC UNLESS NOTED OTHERWISE.

I. ALL EXISTING DRAINAGE TO BE CONFIRMED PRIOR TO CONSTRUCTION COMMENCING.

 $\boldsymbol{\mathsf{L}}_{\star}$ all other pipework to be in class s bedding.

5. PIPEWORK PASSING THROUGH BUILDING WALLS SHALL BE FITTED WITH ROCKER PIPES AS PER STANDARD DETAIL.

ALL EXTERNAL MANHOLE COVERS TO BE TO ENIZ4:1994 - TRAFFICKED AREAS GRADE D400 AND OTHER AREAS GRADE AI4.

7. ALL INTERNAL MANHOLES TO BE SAINT-GOBAIN BRADSTEL TRIPLE SEALED RECESSED COVERS.

3. ALL PIPEWORK AT COVER LEVELS LESS THAN 900MM IN TRAFFICKED AREAS AND 400MM IN OTHER AREAS SHALL BE ENCASED IN CONCRETE (CLASS Z BEDDING).

8. ANY UNLABELLED FOUL BRANCH PIPEWORK TO BE 1000 PIPEWORK AT MINIMUM 1:80 FALL. ALL MAIN FOUL WATER PIPEWORK TO BE 1500 AT 1:100 FALL.

TYPICAL UNITED UTILITIES
OUTFALL DETAIL TYPE 3
1:20 @ A1
1:40 @ A3

SOUTH CALCULATION AND ADDRESS OF THE PARTY O	MORTAR. THE STONE FOR PITCHING SHALL	CONCRETE AND BED OF FND2 CONCRETE A	UNCOURSED RUBBLE PITCHING LAID ON 100	CIRCUMSTANCES, NEED TO BE PROTECTED	I. THE BED AND OPPOSITE BANK OF THE W	ONLIED OTICITIES NOTES REGARDING OUT

II. EXACT SVP AND GULLEY LOCATIONS TO BE CONFIRMED FROM SERVICES ENGINEERS' DRAWINGS AND DETAILS.

10. ALL RWP LOCATIONS AND NUMBERS ARE TO BE CONFIRMED BY ARCHITECT PRIOR TO COMMENCING CONSTRUCTION.

. ANY UNLABELLED STORM WATER BRANCH PEWORK TO BE 100Ø AT MINIMUM 1:80 FALI

NO 2 TO BE USED FOR SOIL CONDITIONS SULPHATE CLASS I ONLY.
ESIGNATED MY REFERENCES FRO. FROLA 8 FROLA TO BE USED IN
OIL CONDITIONS WITH SULPHATE CLASSES, 3.4.A AND 48
ESPECTIVELY (REFER TO SPERICATION CLAUSE 4.3.1)

FLOWS LIMITED TO:
I: YEAR STORM - 3.40 L/S
I:30 YEAR STORM + 3.60 L/S
I:100 YEAR STORM + 40% CLIMATE CHANGE - 5.00 L/S

MANHOLE NUMBER	MANHOLE TYPE	COVER LEVEL	INVERT LEVEL
FWMH01	450Ø PPIC	75.526	74.322
FWMH02	450Ø PPIC	75.548	74.348
FWMH03	450Ø PPIC	75.663	74.462
FWMH04	450Ø PPIC	75.917	74.716
FWMH05	450Ø PPIC	76.033	74.833

SWMH07	SWMH06	SWMH05	SWMH04	ѕwмн03	SWMH02	SWMH01	MANHOLE NUMBER
450Ø PPIC	1200Ø CONCRETE	1200Ø CONCRETE	1200Ø CONCRETE	1200Ø CONCRETE	1500Ø CONCRETE	1500Ø CONCRETE	MANHOLE TYPE
TBC	75.832	75.938	75.844	75.921	76.059	75.904	COVER LEVEL (M)
TBC	72.903	72.882	72.902	72.886	72.859	72.854	COVER LEVEL (M) INVERT LEVEL (M)

CONTRACTOR TO ALLOW FOR ACO DRAINS AT THE LEVEL THRESHOLD OF EACH PROPERTY

- DENOTES SURFACE WATER DRAIN

NOTE THAT PROPOSED TBC AS AC

T FALL FROM EXISTING ROAD TO DWELLINGS APPROXIMATELY 1:12 CCEPTABLE BY PLANNERS

PERMISSIONS TO CROSS THIRD PARTY

- DENOTES BACK INLET GULLY

- DENOTES FOUL WATER MANHOLE WITH 150MM CONCRETE COLLAR TO SUPPORT FINISH - DENOTES SURFACE WATER MANHOLE WITH ISOMM CONCRETE COLLAR TO SUPPORT FINISH - DENOTES FOUL WATER DRAIN - DENOTES ROAD GULLY - DENOTES FOUL WATER MANHOLE

- DENOTES SURFACE WATER MANHOLE

LEVELS GIVEN ON THIS DRAWING ARE TO BE CONFIRMED BY ARCHITECT ALL INVERT LEVELS TBC

ARCHITECT TO CONFIRM ALL RWP, SVP, BIG AND GULLY POSITIONS ALL TEMPORARY WORKS TO CONTRACTOR'S DESIGN AND DETAILS ALL COVER LEVELS TO BE CONFIRMED ON SITE, ALL EXISTING DRAINAGE TO BE SURVEYED PRIOR TO COMMENCEMENT OF WORKS ALL INTERNAL FOUL DRAINAGE TO HAVE RODDABLE ACCESS AT BASE OF CONNECTION

NOTE THAT THIS DRAWING DOES NOT SHOW ANY PLOT DRAINAGE I.E RWP OR SVP LOCATIONS ONLY INDICATIVE MANHOLE DRAG OUTS

+XX.XX DENOTES PROPOSED FINISHED LEVEL

PLANNING	

RACTORS RESPONSIBILITY TO
K INVERT LEVEL OF EXISTING FOUL
R ON SITE AND REPORT FINDINGS
MC PRIOR TO WORKS COMMENCING

SWMHOI TO HAVE HYDROBRAKE WITH REFERENCE NUMBER:
MD-SHE-0086-5000-2600-5000
DISCHARGE LIMIT = 5 L/S
DESIGN HEAD = 2.60

drainage designed for 1:100 year storm + 40% climate change & no flooding on site

MEARLEY CROFT, CLITHEROE BECK DEVELOPMENTS

PROPOSED DRAINAGE LAYOUT

J4I55 EX0I CM 1:200 BELL MUNRO CONSULTING LTD