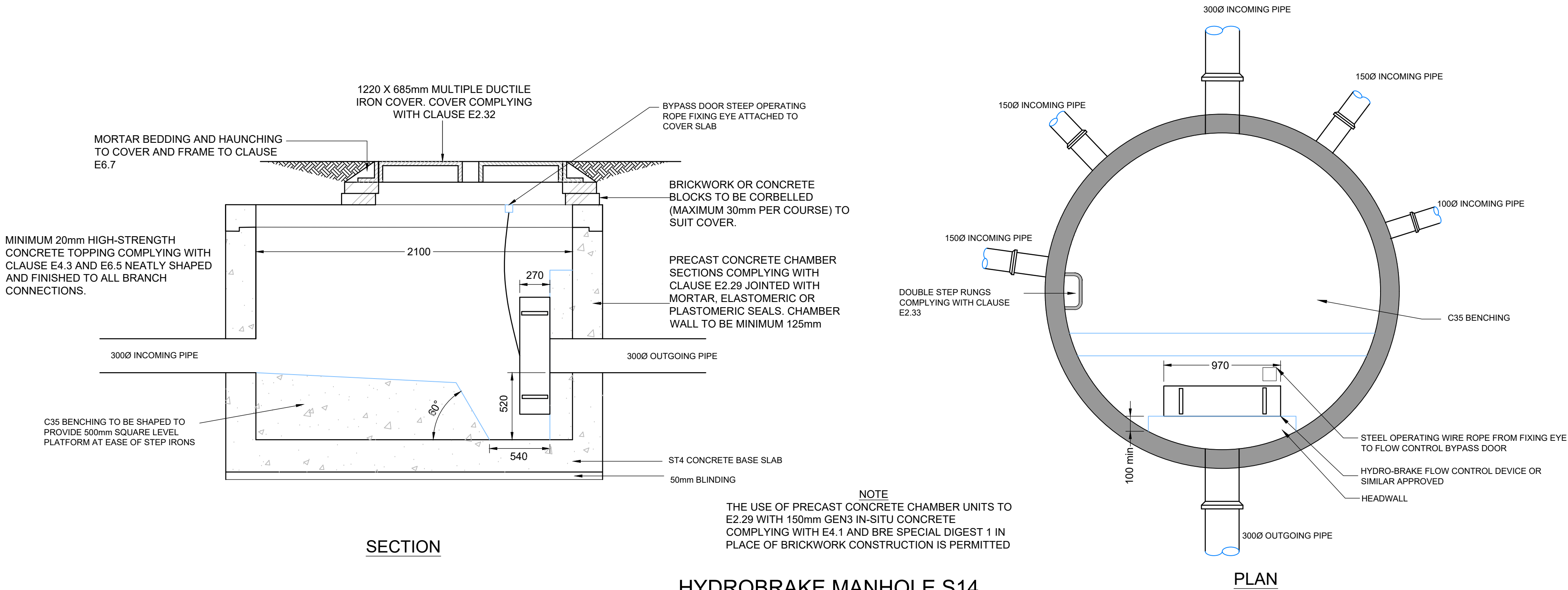


SAFETY HEALTH AND ENVIRONMENTAL INFORMATION
IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.
RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM NO.
CONSTRUCTION
DEMOLITION
NO SIGNIFICANT RESIDUAL HAZARDS BEYOND THOSE KNOWN TO A COMPETENT CONTRACTOR.
FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.



HYDRO-BRAKE MANHOLE NOTES

1. WRITTEN APPROVAL OF APPROVED FLOW CONTROL MANUFACTURER REQUIRED FOR INSTALLATION
2. ACCESS COVER GRADES (DEPTH OF FRAME TO SUIT LOCATION & HIGHWAY CATEGORY)  
BS EN 124  
CLASS D 400 - CARRIAGEWAY AND PARKING AREAS  
CLASS B 125 - FOOTWAYS ETC
3. ACCESS COVERS TO HAVE A MINIMUM CLEAR OPENING OF 675mm SQ. FOR MAN ENTRY COVERS AND CLEAR OPENING OVER CONTROL DEVICE TO ALLOW REMOVAL OF DEVICE. WHERE A SEPARATE ACCESS COVER & FRAME IS PROVIDED FOR PENSTOCK OPERATION THE OPENING SHOULD BE SUITABLE FOR T-KEY USE.
4. CHAMBER SHALL BE SIZED APPROPRIATELY IN RELATION TO PIPES, MAN ACCESS AND REQUIREMENTS OF CONTROL DEVICE.
5. CONTROL DEVICE TO BE LOCATED TO ALLOW FULL DRAIN DOWN OF WATER WITH NO STANDING WATER IN THE CHAMBER.
6. PIPES BUILT INTO MANHOLES SHALL HAVE A FLEXIBLE JOINT AS CLOSE AS FEASIBLE TO THE EXTERNAL FACE OF THE STRUCTURE AND THE LENGTH OF THE NEXT ROCKER PIPE SHALL BE AS SHOWN.
7. STEP RUNGS SHALL BE DOUBLE POLYPROPYLENE ENCAPSULATED
8. ALL IN-SITU CONCRETE TO HAVE 50-75mm SLUMP AND TO BE VIBRATED TO FORM DENSE WATERTIGHT SEAL WITH PRECAST SECTIONS.
9. BENCHING TO BE C28/35 OR GRANOLITHIC TO FORM DENSE SMOOTH FINISH WITH A 500x500mm FLAT AREA AT BOTTOM OF MAN ENTRY SYSTEM.
10. FRAMES FOR MANHOLE COVERS SHALL BE BEDDED IN A POLYESTER RESIN BEDDING MORTAR IN ALL SITUATIONS WHERE COVERS ARE SITED IN NRSWA ROAD CATEGORIES 1, 2 OR 3.
11. LADDERS SHALL BE EITHER STAINLESS STEEL OR GRP. FIXINGS TO BE STAINLESS STEEL. DOUBLE RUNG STEP IRONS ALSO AVAILABLE.
12. WHERE FITTED LADDERS SHALL BE EXTENDABLE TO A HEIGHT OF 1M ABOVE GROUND LEVEL
13. WHERE TOE HOLE PROVIDED IN BENCHING. SIZE OF HOLE SHALL BE 150 HIGH x 150 (MIN) DEPTH AND WIDTH. VERTICAL SPACING SHALL BE SAME AS STEP RUNGS.
14. FRAMES FOR MANHOLE COVERS SHALL BE BEDDED IN A POLYESTER RESIN BEDDING MORTAR IN ALL SITUATIONS WHERE COVERS ARE SITED IN NRSWA ROAD CATEGORIES 1, 2 OR 3.
15. UNLESS NOTED OTHERWISE ALL DIMENSIONS ARE IN MILLIMETRES

HYDROBRAKE MANHOLE S14

HYDRO-BRAKE DIMENSION TABLE - (ALL DIMENSIONS IN mm)									
HYDRO INTERNATIONAL HYDRO-BRAKE REFERENCE	(HYDRO-BRAKE WIDTH)	(HYDRO-BRAKE DEPTH)	(SUMP DEPTH)	(SUMP WIDTH)	(MOUNTING BLOCK WIDTH)	(MOUNTING BLOCK HEIGHT)	OUTGOING PIPE SIZE	OUTGOING PIPE INVERT LEVEL	CHAMBER INVERT LEVEL
SHE-0263-4050-1500-4050	970	270	520	540	1175	1315	3000	54.550	52.975