

- LEGEND**
- Foul Sewer & Manhole (S104)
 - Surface Water Sewer & Manhole (S104)
 - Adoptable foul manhole reference (DCWW) (S104)
 - Adoptable foul drain (1000 unless shown otherwise) (S104)
 - Adoptable foul inspection chamber <3.0m deep with restricted access depths over 1.2m (S104)
 - Private Foul drain (1000 unless shown otherwise)
 - Private Foul inspection chamber <3.0m deep with restricted access depths over 1.2m
 - Storm manhole reference (S11)
 - Storm drainage invert level (S11)
 - Storm drain (1000 unless shown otherwise)
 - Storm inspection chamber <3.0m deep with restricted access depths over 1.2m
 - Private Storm drain (1000 unless shown otherwise)
 - Private Storm inspection chamber <3.0m deep with restricted access depths over 1.2m
 - Dine Gully
 - Rodding eye (450mm deep unless noted otherwise)
 - Channel / Aco drain or similar approved
 - Highway Drainage
 - Road Gully
 - Adoptable Oil Bypass Separator
 - Adoptable Outfall
 - FFL level
 - Proposed spot level
 - Sewer Easement
 - Existing Sewer Easement
 - Street lighting - Refer to Contractor's drawings - GC3490-CAP-78-XX-DR-E-1301
 - Knee Rail

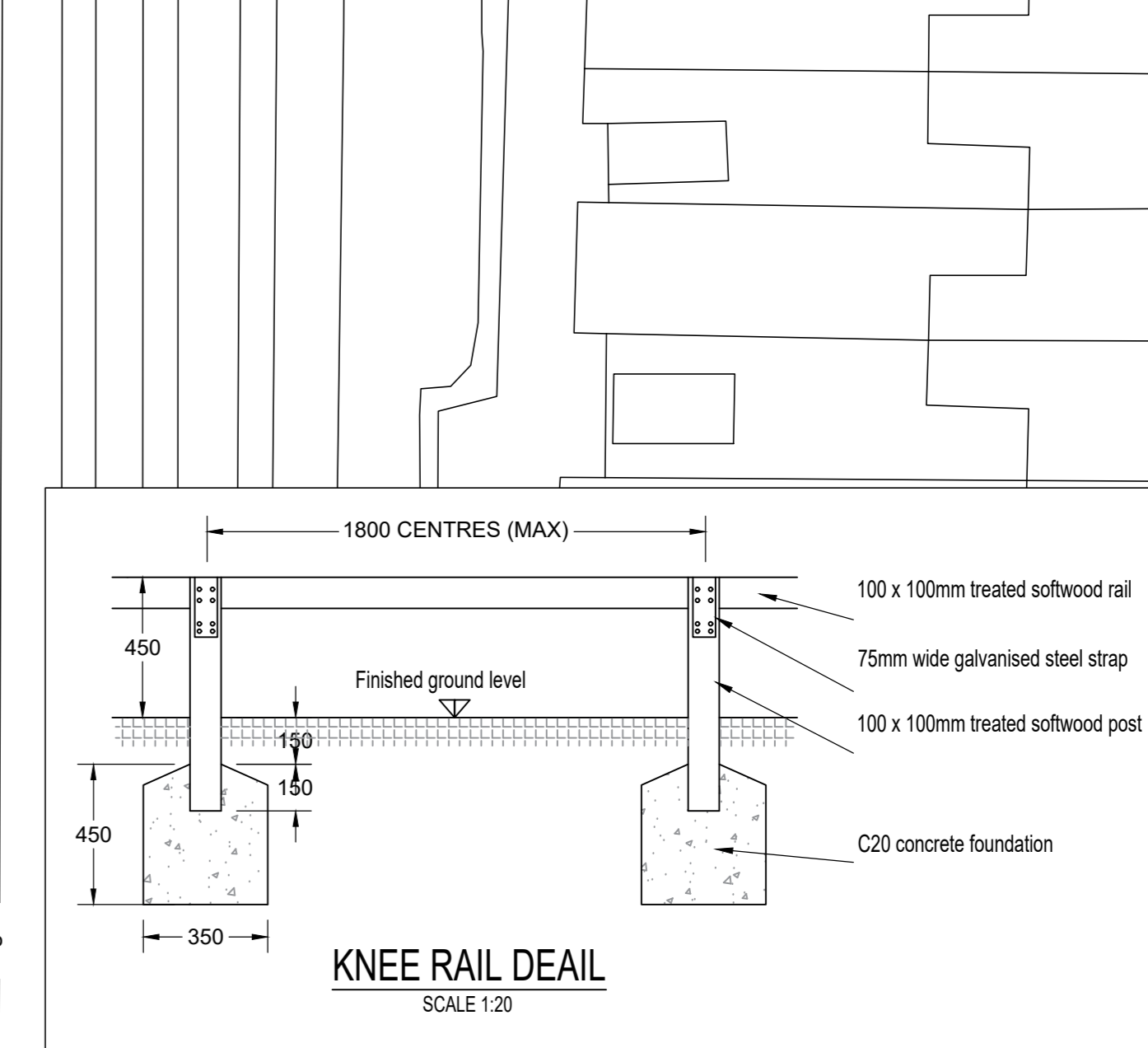
- GENERAL NOTES**
1. On Not Scale
 2. The contractor is to check and verify all buildings and site dimensions and levels, including sewer invert levels, before works start on site. The contractor is to comply in all aspects with the current building legislation, British Standards, building regulations etc.
 3. Positions of existing services/utility undertakers apparatus adjacent to or crossing proposed excavations are to be checked by the contractor prior to starting work.
 4. This drawing is to be read in conjunction with and checked against all other drawings, Engineering Details, Specifications and any structural, geotechnical or other specialist document provided.
 5. Any anomaly or contradiction between any of the above is to be reported to Engie.
 6. This drawing is schematic for clarity only, positions of pipes runs and manholes may vary on site due to site conditions.
 7. Easements shown based on information from Topographical survey and Steve Morgan Associates drawings where Topographical information is not available.
- ROAD AND SEWER ADOPTION NOTES**
1. All works for adoption under a Section 58 agreement shall be carried out to the approval of the Newport City Council.
 2. All works for adoption under a Section 104 agreement shall be carried out to the National Water Council guide 'Sewers for Adoption' 7th edition and Our Cymru Welsh Water's requirements.
 3. Streetlights to be adopted on site and agreed by the Local Authority PRIOR to erection commencing.
- DRAINAGE NOTES**
1. All private drainage shall be in accordance with BS6501 and relevant sections of Approved Document H of the Building Regulations.
 2. The contractor is to check the level of existing sewers being used as outfalls or crossing proposed drainage runs PRIOR to laying any pipes. Any discrepancies are to be reported to the Engineer.
 3. Private house drainage will be flexibly jointed plastic or clay pipework. Diameter 100mm unless shown otherwise.
 4. All connections for House Drainage shall be 100mm unless noted otherwise and must extend 500mm behind the back of kerb/footpath/roadline road. All connections when laid shall be plugged, protected as necessary and marked with a stake for future use. All drainage laterals from the adoptable drainage system to be 150mm dia. unless connecting to the head of a 100mm dia. FHS.
 5. For private drains where cover to pipes is less than 900mm in vehicular areas or 600mm in other areas protection in the form of a 500mm thick concrete pad shall be provided over the pipe granular surround.
 6. Where pipes pass through screen walls, footings or retaining walls links are to be provided over. Under buildings pipes shall be surrounded with 150mm thickness of granular material. Where drains pass within 1m of buildings the wall foundation shall be taken down below the invert of the pipe.
 7. Where drains do not exceed 600mm deep, plastic or clay access fittings minimum diameter 225mm shall be used. Elsewhere proprietary plastic or precast concrete inspection chambers shall be used. Unless shown otherwise FWS inspection chambers are to be 400mm below dpc level and SWI chambers and rodding eyes to be 450mm below dpc.
 8. All gullies and rainwater downpipes connected directly to drains are to be roddable.
 9. House levels shown are dpc and adjacent garage floors are to be 150mm lower unless shown otherwise. Levels at drainage access points are levels.
 10. Where possible, drainage runs should be laid at a minimum of 3.0m from the rear of properties where practical to allow for future extensions.
 11. All drainage shall be laid upstream and each run between manholes shall be laid complete prior to backfilling. Where this is not practical trial holes or other means of identifying the line and level of services shall be carried out prior to works commencing.
 12. All branch drains, or connections, are to discharge to the collectors vertically, and in the direction of the main flow.
 13. All low spots on hardstanding areas to have yard gullies/ACO.
 14. Approved Our Cymru Welsh Water Plastic Pipe Systems are as follows:
 - Mistry Twinwall System
 - Upper Ultraflo System
 - Omega Ultraflo System
 - Polywater Twinwall System
 - Polywater - Ringwaver (400mm-600mm and 750mm-900mm)
- Please note that the installer must be accredited with The British Plastics Federation (BPF).

REV.	DATE	DETAILS	AMENDMENTS	BY	CHECK
1	15/03/24	Knee rail added		TOR	SD
2	10/07/24	Land drain shown behind into post wall of Southern boundary of site		TOR	SD
3	09/07/24	Highway contours amended		TOR	SD
4	02/02/24	F11.8o amended		TOR	SD
5	26/04/24	Drainage and road contours amended following on built survey (drainage amended F11-F14)		TOR	SD
6	11/03/24	Site Layout updated to suit MCC requirements. Gully relocated a ramp adjacent Plot 107/55 and gully relocated a ramp adjacent Plot 107/55		TL	SD
7	24/04/23	Site Layout updated (Fence boundary to the rear of plots 107-112 amended). Day amended to suit		TL	SD
8	11/03/22	Site Layout updated, amendment to ray Plot 107 and parking Plot 104/85. Day updated to suit. Access revised as per client's instruction. Day amended to suit		TL	SD
9	25/03/22	FW drainage revised to Plot 105/210 as per client's instruction.		TL	SD
10	24/06/21	Parking area east of Plot 180 revised. Day updated to suit. Spot levels added to new gullies as per client's instruction. Lateral amended to suit site locations. Additional adoptable FW manhole F10 added at Plot 124.		TL	SD
11	05/02/21	FW drainage revised to Plot 117 allocated. non-adoptable FW added Plot 181		TL	SD
12	18/10/20	Site Plan updated. Plot 43/204/218/225 house type revised. Day amended to suit.		TL	SD
13	01/09/20	Day amended to suit. MCC comments. Street lighting, crossing and block paving areas revised		TL	SD
14	14/11/19	Day amended to suit. MCC comments. Street lighting, crossing and block paving areas revised		TL	SD
15	30/08/19	Site Plan updated, gully added at table top, day amended to suit MCC comments. SW lateral revised at Plot 39-47 and parking rear of Plot 55		TL	SD
16	14/08/19	SW lateral updated to suit gullies. SW lateral revised at Plot 48-51 and Plot 50-53		TL	SD
17	04/07/19	SW lateral updated to suit gullies. SW lateral revised at Plot 100-108 and Plot 48-51 and Plot 50-53		TL	SD
18	11/06/19	Street Lighting updated		TL	SD
19	14/03/19	Street Lighting updated		TL	SD
20	14/03/19	Street Lighting updated		TL	SD
21	11/11/18	Drainage revised to suit DCWW comments. Day updated to suit		TL	SD

Connection into existing DCWW sewer S131897002 via 1.5m backdrop with IL 6.32 at point of connection

Reduce CL of F5 by 650mm to 9.10m

MP 41:25



engie **POB**

phg CONSULTING ENGINEERS

PHG CONSULTING LTD
50A ALBERT STREET
CARDIFF CF24 3NR
T: +44 (0)1495 201 201
E: info@phgconsulting.com
www.phgconsulting.com

POBL
Herbert Road, Newport

Engineering Layout
Phase 2B

CD SJD **1:250 @ A0**

DATE **REV.**

Sep'18 1795 201 T