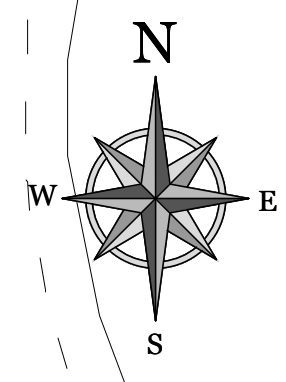


SEE MAIN PLAN FOR CONTINUATION

MAIN PLAN

INSET A



ON ORIGINAL
 0 10 20 30 40 50m

© COPYRIGHT OF THIS DRAWING IS RESERVED BY DBFL CONSULTING ENGINEERS. NO PART SHALL BE REPRODUCED OR TRANSMITTED WITHOUT THEIR WRITTEN PERMISSION.

NO CHANGES OF WHATSOEVER NATURE ARE TO BE MADE TO ANY DETAILS SET OUT OR CONTAINED IN ANY DBFL SPECIFICATIONS OR DRAWINGS UNLESS THE EXPRESS CONSENT HAS BEEN OBTAINED IN ADVANCE, IN WRITING, FROM DBFL.

- NOTES:
1. ALL DIMENSIONS AND LEVELS IN METRES, EXCEPT IF NOTED OTHERWISE.
 2. ALL LEVELS TO MAIN HEAD DATUM.
 3. CO-ORDINATE SYSTEM IS: IRISH TRANSVERSE MERCATOR.
 4. REFER TO ARCHITECT'S PLAN LAYOUTS FOR SITE BOUNDARY / CLIENT OWNERSHIP BOUNDARY / WORKS BOUNDARY.
 5. ALL DETAILS SHOWN ARE PRELIMINARY DESIGNS FOR PLANNING ONLY AND ARE SUBJECT TO FURTHER DEVELOPMENT DURING DETAILED DESIGN.

- SURFACE WATER:
1. EXISTING SURFACE WATER DRAINS & CONNECTIONS & WATER SUPPLY TO BE PRESERVED & UTILISED WHERE POSSIBLE.
 2. ALL EXTERNAL PRIVATE DRAINS TO BE 150mm DIA. UNLESS NOTED OTHERWISE.
 3. FALLS IN DRAINS TO BE 1:120 FOR SURFACE WATER UNLESS NOTED OTHERWISE.
 4. ALL PUBLIC SURFACE WATER SEWERS TO BE CONCRETE OR PVC MINIMUM 225mm DIA.
 5. MAXIMUM SIZE OF PVC AND TWIN-WALLED PIPES TO BE 375mm. ABOVE THIS CONCRETE PIPES TO BE USED.
 6. ALL MAIN SEWERS WITH LESS THAN 1.2m COVER UNDER ROADS AND 0.9m COVER UNDER GRASSED AREAS AND FOOTPATHS TO BE SURROUNDED IN 150mm C20 CONCRETE.
 7. PROVIDE MANHOLE COVERS AND AJS WITH ARCHITECTURAL PAVING WHERE REQUIRED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS.
 8. APPLICANT RESERVES RIGHT TO SUBSTITUTE ALTERNATIVE SIMILAR PRODUCTS "HYDROBRAKE" IF NECESSARY SUBJECT TO SUBMITTIVE DETAILS OF SAME TO LOCAL AUTHORITY ENVIRONMENTAL SERVICES IN ADVANCE.
 9. ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH:
 - TII SPECIFICATION FOR ROADWORKS
 - GREATER DUBLIN CODE OF PRACTICE FOR DRAINAGE WORKS
 - RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS
 10. ALL COVERS IN PUBLIC AREAS TO BE IS EN 124 D400 UNLESS NOTED OTHERWISE.
 11. CE CERTIFICATION TO BE PROVIDED FOR ALL PRODUCTS COVERED BY THE EU CONSTRUCTION PRODUCTS REGULATION (NO. 305/2011-CPR)
 12. ALL MATERIALS PROPOSED FOR USE ON SITE TO BE APPROVED PRIOR TO ARRIVAL ON SITE.

- LEGEND
- ROAD EDGE
 - FOOTPATH EDGE
 - ROAD CENTRELINE
 - PROPOSED BUILDING
 - PROPOSED BASEMENT
 - EXTENSIVE GREEN ROOF
 - PERMEABLE PAVING
 - PODIUM
 - F.F.L. 99.99 FINISHED FLOOR LEVEL
- PROPOSED SERVICES:
- S99 CL 99.99 IL 99.99 SURFACE WATER SEWER MANHOLE
 - 225ø 1:999 SURFACE WATER SEWER
 - 150ø 1:999 SURFACE WATER DRAIN
 - 150ø FD FILTER DRAIN ENTRY INVERT LEVEL
 - CL=99.99 SURFACE WATER GULLY
 - ATTENUATION SYSTEM
 - HYDROBRAKE MANHOLE
 - PETROL INTERCEPTOR FROM PHASE 1 CONSTRUCTION
- PHASE 1 INFRASTRUCTURE:
- 225ø 1:999 SURFACE WATER SEWER
- EXISTING SERVICES:
- EX. 225ø SW SURFACE WATER SEWER
 - EX. SMH CL 99.99 IL 99.99 SURFACE WATER SEWER MANHOLE

ORDNANCE SURVEY IRELAND LICENCE
 No EN 0017922
 © ORDNANCE SURVEY IRELAND
 GOVERNMENT OF IRELAND

SEE INSET A FOR CONTINUATION

rev	date	description	by	chkd.
0	10-06-22	ISSUED FOR PLANNING	CDC	LMCL

STATUS CODES

purpose P3 - PLANNING PERMISSION acceptance S - ISSUED

DBFL Consulting Engineers
 Civil, Structural & Transportation Engineering
 www.dbfl.ie

DUBLIN OFFICE: Ormond House, Upper Ormond Quay, Dublin 7, D07 W9T4
 PHONE: +353 1 400 4300

CORK OFFICE: 14 South Mall, Cork, T12 C7R1
 PHONE: +353 21 2024538

WATERFORD OFFICE: Sun-Edo The Atrium, Maritime Gate, Canada Street, Waterford, X91 W028
 PHONE: +353 51 309 500

project ref. MIXED USE DEVELOPMENT-CHADWICKS, SWORDS ROAD, SANTRY.

drawing title SURFACE WATER LAYOUT

client DWYER NOLAN DEVELOPMENTS

designed by LMCL author DCH scale 1:250 sheet size A1 drawing no. 200060-X-91-X-DTM-DR-DBFL-CE-1001 revision 0

MIXED USE DEVELOPMENT- SWORDS ROAD, SANTRY. (PLANNING REF: 2713/17 & 2737/19)

"KINCSPIR" NBS010 BYPASS PETROL INTERCEPTOR CLASS 1 WITH 100mm FALL ACROSS UNIT (OR SIMILAR APPROVED) FROM NEIGHBOURING DEVELOPMENT (PLANNING REF: 2713/17 & 2737/19). PETROL INTERCEPTOR DESIGNED TO ACCOMMODATE BOTH PHASES.

SURFACE WATER STORAGE- ATTENUATION 1
 ONLINE PLUMAL CUBE ATTENUATION SYSTEM
 REQ. VOLUME = 416m³
 PROV. VOLUME = 536m³
 ATTENUATION AREA = 526m²
 INVERT LEVEL = 54.16m
 TOP OF WATER LEVEL ATTENUATION = 55.085m
 (1:100 YEARS + 20%)
 ATTENUATION SYSTEM TO BE TANKED/LINED.

FILTER DRAINS PLACED UNDER PERMEABLE PAVING AT APPROPRIATE INTERVALS.

FILTER DRAINS PLACED UNDER PERMEABLE PAVING AT APPROPRIATE INTERVALS. TO DRAIN TO MAIN SURFACE WATER SEWER.

HYDROBRAKE MANHOLE WITH FLOW CONTROL ON OUTLET TO LIMIT FLOW TO 4.9l/s

CATCHPIT MANHOLE

OUTFALL MANHOLE CONSTRUCTED AS PART OF (PLANNING REF: 2713/17 & 2737/19).

OPEN SPACE TO FALL TO GULLIES. REFER TO ARCHITECT PLANS FOR DETAILS OF OPEN SPACE

CONNECTION FROM ROOF DRAINAGE VIA SLING DRAINAGE. RWP'S LOCATIONS & INVERT LEVELS TO BE CONFIRMED BY ARCHITECT.

CONNECTION FROM RWP'S VIA SLING DRAINAGE. RWP'S LOCATIONS & INVERT LEVELS TO BE CONFIRMED BY ARCHITECT.

CONNECTION FROM RWP'S VIA SLING DRAINAGE. RWP'S LOCATIONS & INVERT LEVELS TO BE CONFIRMED BY ARCHITECT.