

- NOTES:**
- ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE NRA SPECIFICATION FOR ROAD WORKS UNLESS OVERRIDDEN BY LOCAL OVERSEEING AUTHORITY'S SIGNINGS.
 - ALL ROAD MARKINGS & SIGNS SHALL COMPLY FULLY WITH THE TRAFFIC SIGNS MANUAL, PUBLISHED BY THE DEPARTMENT OF TRANSPORT, JUNE 2010.
 - SIGNS & MARKINGS: CONTRACTOR TO CONFIRM PRECISE SETTING OUT WITH EMPLOYERS REPRESENTATIVE PRIOR TO COMPLETION.
 - ALL SIGNS TO BE MOUNTED ON 75mm GALVANISED STEEL POSTS WITH COLOURED LEVELS LAID TO SPECIFICATION AND IN ACCORDANCE WITH THE TRAFFIC SIGNS MANUAL. MOUNTING HEIGHT TO BOTTOM OF SIGN = 2.25m UNLESS:
 - ALL TRAFFIC MANAGEMENT TO COMPLY FULLY WITH THE PROVISIONS OF CHAPTER 8 OF THE TRAFFIC SIGNS MANUAL.
 - ALL CO-ORDINATES ARE TO ITM.
 - ALL LEVELS ARE TO ORDNANCE DATUM AND ARE IN METRES.
 - ALL EXISTING SIGNS (INCLUDING POLES) AND MARKINGS TO BE TAKEN UP OR COVERED AND TEMPORARY MEASURES APPLIED IN ACCORDANCE WITH CONTRACTIONS TRAFFIC MANAGEMENT PLAN. THE CONTRACTOR MAY USE EXISTING SIGNS AS PART OF THEIR TRAFFIC MANAGEMENT PLAN.
 - ALL EXISTING CHAMBERS AND ACCESS POINTS TO REMAIN CLEAR OF OBSTRUCTION THROUGHOUT WORKS. CHAMBERS SHALL BE REBUILT/REINFORCED IN POSITION IDENTIFIED ON SITE SERVICES LAYOUT DRAWING.
 - ALL PEDESTRIAN, CYCLE AND VEHICULAR ROUTES MUST BE MAINTAINED IN ACCORDANCE WITH APPROVED TRAFFIC MANAGEMENT PLAN.
 - ALL MATERIALS TO BE DISPOSED OFF SITE SHALL BE TAKEN TO A LICENSED FACILITY APPROVED BY THE LOCAL OVERSEEING AUTHORITY.

- LEGEND:**
- SITE BOUNDARY
 - PROPOSED ROAD
 - PROPOSED FOOTPATH
 - PROPOSED BUILDING
 - PROPOSED CYCLE PATH
 - PROPOSED SHARED PATH
 - PROPOSED VERGE
 - PROPOSED PERMEABLE PAVING
 - PROPOSED ROAD GRADIENT
 - PROPOSED ROAD LEVELS
 - PROPOSED FINISHED FLOOR LEVELS
 - PROPOSED BUILDING STEPS
 - TACTILE PAVING AT UNCONTROLLED CROSSINGS
 - EXISTING WATERCOURSE (EAST) SHOWN WITH STREAM BEDS
 - PROPOSED OVERFLOW DETENTION BASIN
 - PROPOSED POND
 - INFILTRATION TRENCH
 - PROPOSED RAIN GARDEN LOCATION
 - PROPOSED STORM WATER CATCH-PIT
 - PROPOSED SURFACE WATER BIO-SWALE
 - PROPOSED SURFACE WATER 150mm FLEXIBRAM
 - PROPOSED BIO-RETENTION AREA WITH GRATED OUTLET
 - TREE PIT
 - SURFACE RUNOFF
 - PROPOSED SURFACE WATER GULLY AND 150mm COLLECTOR PIPE
 - PROPOSED DROP KERB

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

REV	DATE	DESCRIPTION	BY	CHECKED BY
P03	09/06/20	PLANNING SUBMISSION	DKE	NOH
P02	26/06/20	REVISED GENERAL LAYOUT	PLY	NOH
P01	04/11/20	ISSUED FOR PLANNING	OS	NOH
REV	DATE	DESCRIPTION	BY	NOH
A		Approved with submissions		
B		Approved with variations		
C		Do not use		

client approval
 S4 - STAGE APPROVAL
 PLANNING

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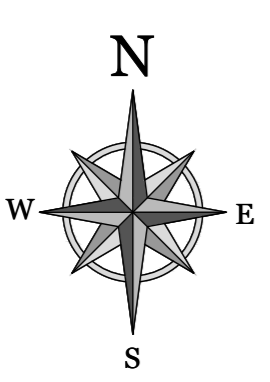
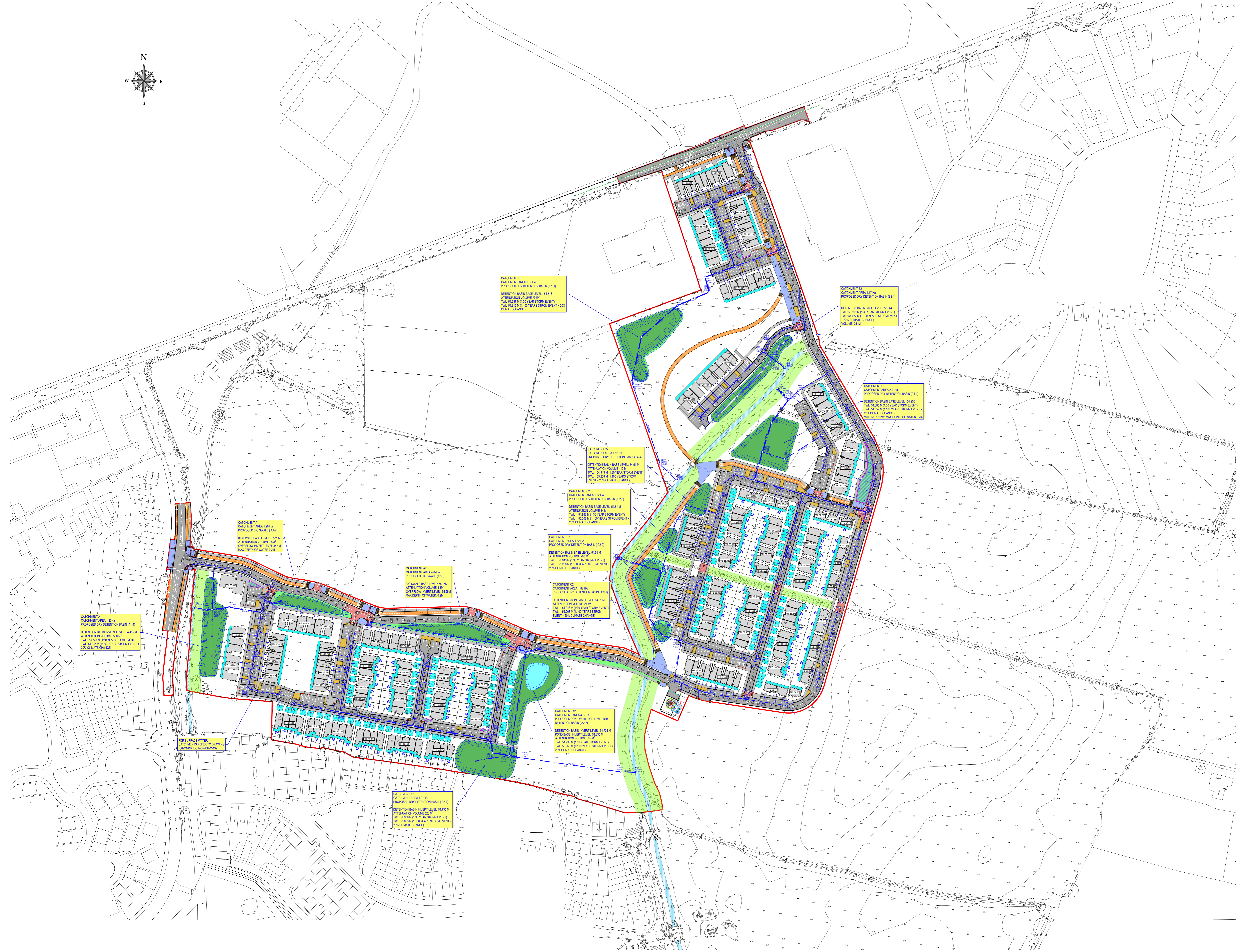
project ref
**BALLYOULSTER KDA SHD - PHASE 1
 RESIDENTIAL DEVELOPMENT**

drawing title
**SURFACE WATER DRAINAGE
 OVERALL LAYOUT AND STRATEGY**

client
**KIERAN CURTIN, RECEIVER OVER
 CERTAIN ASSETS OF MAPLEWOOD
 DEVELOPMENTS UNLIMITED COMPANY**

designed by	author	scale	sheet size
PLY	PLY	1:1000	A3

drawing no
180221-DBFL-SW-SP-DR-C-1000



CATCHMENT B1
 CATCHMENT AREA 1.07 HA
 PROPOSED DRY DETENTION BASIN (B1-1)
 DETENTION BASIN BASE LEVEL: 54.516
 ATTENUATION VOLUME: 710 M³
 TML: 54.687 M (1:30 YEAR STORM EVENT)
 TML: 54.810 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)

CATCHMENT B2
 CATCHMENT AREA 1.17 HA
 PROPOSED DRY DETENTION BASIN (B2-1)
 DETENTION BASIN BASE LEVEL: 53.884
 TML: 53.994 M (1:30 YEAR STORM EVENT)
 TML: 54.027 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)
 VOLUME: 251 M³

CATCHMENT C1
 CATCHMENT AREA 2.91 HA
 PROPOSED DRY DETENTION BASIN (C1-1)
 DETENTION BASIN BASE LEVEL: 54.292
 TML: 54.386 M (1:30 YEAR STORM EVENT)
 TML: 54.528 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)
 VOLUME: 928 M³ MAX DEPTH OF WATER: 0.2m

CATCHMENT C2
 CATCHMENT AREA 1.80 HA
 PROPOSED DRY DETENTION BASIN (C2-1)
 DETENTION BASIN BASE LEVEL: 54.81 M
 ATTENUATION VOLUME: 210 M³
 TML: 54.943 M (1:30 YEAR STORM EVENT)
 TML: 55.208 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)

CATCHMENT C3
 CATCHMENT AREA 1.82 HA
 PROPOSED DRY DETENTION BASIN (C3-1)
 DETENTION BASIN BASE LEVEL: 54.81 M
 ATTENUATION VOLUME: 210 M³
 TML: 54.943 M (1:30 YEAR STORM EVENT)
 TML: 55.208 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)

CATCHMENT C4
 CATCHMENT AREA 1.82 HA
 PROPOSED DRY DETENTION BASIN (C4-1)
 DETENTION BASIN BASE LEVEL: 54.81 M
 ATTENUATION VOLUME: 210 M³
 TML: 54.943 M (1:30 YEAR STORM EVENT)
 TML: 55.208 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)

CATCHMENT C5
 CATCHMENT AREA 1.82 HA
 PROPOSED DRY DETENTION BASIN (C5-1)
 DETENTION BASIN BASE LEVEL: 54.81 M
 ATTENUATION VOLUME: 210 M³
 TML: 54.943 M (1:30 YEAR STORM EVENT)
 TML: 55.208 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)

CATCHMENT C6
 CATCHMENT AREA 1.82 HA
 PROPOSED DRY DETENTION BASIN (C6-1)
 DETENTION BASIN BASE LEVEL: 54.81 M
 ATTENUATION VOLUME: 210 M³
 TML: 54.943 M (1:30 YEAR STORM EVENT)
 TML: 55.208 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)

CATCHMENT C7
 CATCHMENT AREA 1.82 HA
 PROPOSED DRY DETENTION BASIN (C7-1)
 DETENTION BASIN BASE LEVEL: 54.81 M
 ATTENUATION VOLUME: 210 M³
 TML: 54.943 M (1:30 YEAR STORM EVENT)
 TML: 55.208 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)

CATCHMENT C8
 CATCHMENT AREA 1.82 HA
 PROPOSED DRY DETENTION BASIN (C8-1)
 DETENTION BASIN BASE LEVEL: 54.81 M
 ATTENUATION VOLUME: 210 M³
 TML: 54.943 M (1:30 YEAR STORM EVENT)
 TML: 55.208 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)

CATCHMENT C9
 CATCHMENT AREA 1.82 HA
 PROPOSED DRY DETENTION BASIN (C9-1)
 DETENTION BASIN BASE LEVEL: 54.81 M
 ATTENUATION VOLUME: 210 M³
 TML: 54.943 M (1:30 YEAR STORM EVENT)
 TML: 55.208 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)

CATCHMENT C10
 CATCHMENT AREA 1.82 HA
 PROPOSED DRY DETENTION BASIN (C10-1)
 DETENTION BASIN BASE LEVEL: 54.81 M
 ATTENUATION VOLUME: 210 M³
 TML: 54.943 M (1:30 YEAR STORM EVENT)
 TML: 55.208 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)

CATCHMENT C11
 CATCHMENT AREA 1.82 HA
 PROPOSED DRY DETENTION BASIN (C11-1)
 DETENTION BASIN BASE LEVEL: 54.81 M
 ATTENUATION VOLUME: 210 M³
 TML: 54.943 M (1:30 YEAR STORM EVENT)
 TML: 55.208 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)

CATCHMENT A1
 CATCHMENT AREA 1.30 HA
 PROPOSED BIO SWALE (A1-D)
 BIO SWALE BASE LEVEL: 55.208
 ATTENUATION VOLUME: 85 M³
 OVERFLOW INVERT LEVEL: 55.80M
 MAX DEPTH OF WATER: 0.2m

CATCHMENT A2
 CATCHMENT AREA 4.07 HA
 PROPOSED BIO SWALE (A2-D)
 BIO SWALE BASE LEVEL: 55.79M
 ATTENUATION VOLUME: 85M³
 OVERFLOW INVERT LEVEL: 55.99M
 MAX DEPTH OF WATER: 0.2m

CATCHMENT A1
 CATCHMENT AREA 1.20 HA
 PROPOSED DRY DETENTION BASIN (A1-1)
 DETENTION BASIN INVERT LEVEL: 54.455 M
 ATTENUATION VOLUME: 580 M³
 TML: 54.775 M (1:30 YEAR STORM EVENT)
 TML: 54.846 M (1:100 YEARS STORM EVENT - 20% CLIMATE CHANGE)

FOR SURFACE WATER
 CATCHMENTS REFER TO DRAWING
 180221-DBFL-SW-SP-DR-C-1000