

Appendix 7-8 – Operational Survey Data

Cleanrath Wind Farm





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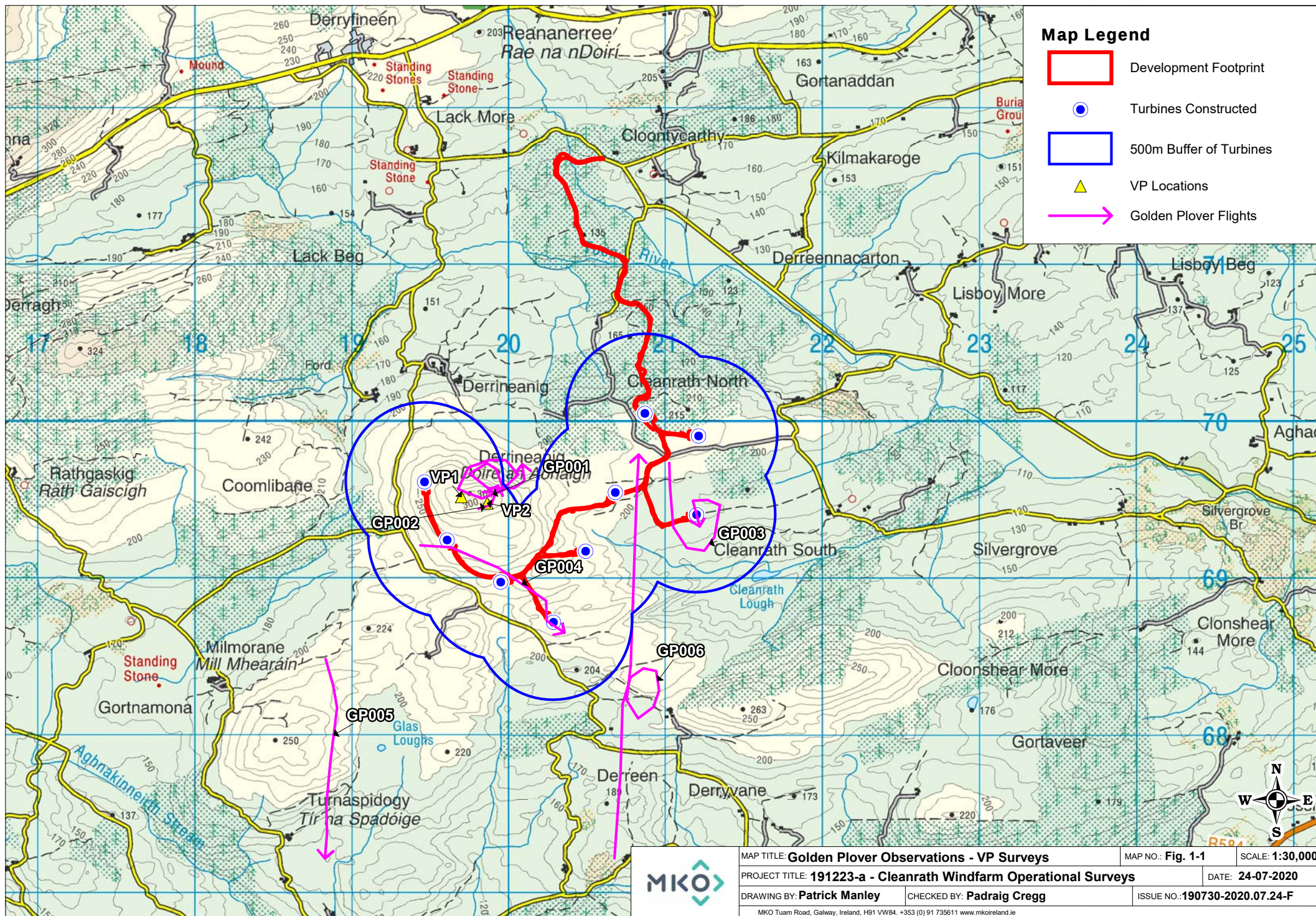
APPENDIX 7-8 (OPERATIONAL SURVEY DATA)

Table 1 Golden Plover Survey Data

Vantage Point Surveys												
Obs. Ref. No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-34m)	Band 2 (34-150m)	Band 3 PCH (>150m)	Notes on habitat and activity	Comments	Surveyor
GP001	13/02/2020	2	Golden Plover	37	07:35	60	0	0	60	BL3, (Buildings and artificial surfaces) HH, (Heath) Roosting. Flying. Feeding.	Disturbed from roosting while walking to VP, after sunrise many GP gone but 6/7 GP still present flying in circles around windfarm. Habitat badly burnt (doesn't resemble Fossitt descriptions).	SA
GP002	14/03/2020	2	Golden Plover	20	05:45	20	0	0	0	PB2, (Upland blanket bog)	Disturbed from roost by surveyor on arrival, heard not seen	CC
GP003	14/03/2020	2	Golden Plover	65	07:47	161	104	57	0	WD4, (Conifer plantation) GA1, (Improved agricultural grassland)	came in high and dropped into T13 hardstand area	CC
GP004	14/03/2020	2	Golden Plover	42	08:40	97	87	10	0	In high (100m) and dropped into T10 area	In high (100m) and dropped into T10 area	CC
GP005	14/03/2020	2	Golden Plover	47	09:47	112	0	112	0	PB2, (Upland blanket bog)	c.80m	CC
GP006	14/03/2020	2	Golden Plover	62	10:28	247	0	247	0	PB2, (Upland blanket bog) WD4, (Conifer plantation)	c80-100m slow flight	CC

Winter Transect Surveys						
Obs. Ref. No.	Survey Date	Species	Number of birds	Notes on Habitat and Activity	Comments	Surveyor
GP001	05/03/2020	Golden Plover	23	PB2, (Upland blanket bog) HH3, (Wet heath) GA1, (Improved agricultural grassland) at edge of hardstand T13		CC

Incidental Observations					
Date	Survey Type	Species	Number of Individuals	Notes	Surveyor
12/03/2020	Hen Harrier Roost Survey	Golden Plover	78	flushed by observer prior to roost watch	CC
12/03/2020	Hen Harrier Roost Survey	Golden Plover	7	Flying	PC
12/03/2020	Hen Harrier Roost Survey	Golden Plover	19	Flying	PC
12/03/2020	Hen Harrier Roost Survey	Golden Plover	22	Flying	PC



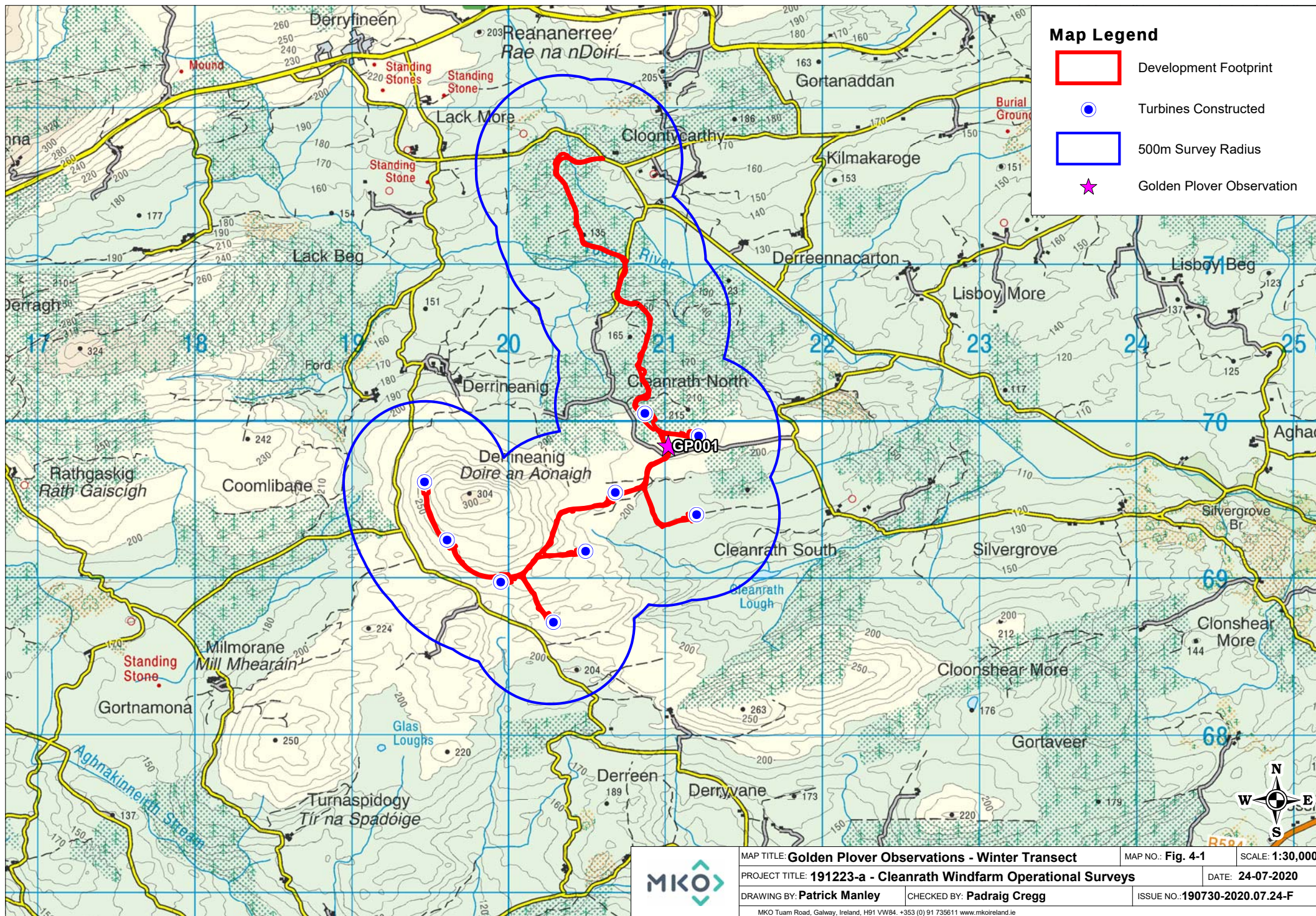


Table 2 Hen Harrier Survey Data

Breeding Raptor Surveys								
Obs. Ref. No.	Date	RVP	Species	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
HH001	15/05/2020	3	Hen Harrier	1	16:45	PB1, (Raised bog) GS4, (Wet grassland) WD4, (Conifer plantation) Hunting & Soaring	Adult Male	SA
HH002	15/05/2020	3	Hen Harrier	1	19:30	PB1, (Raised bog) GS4, (Wet grassland) WD4, (Conifer plantation) Hunting & Soaring	Adult Male	SA

Table 3 White-tailed Eagle Survey Data

Vantage Point Surveys												
Obs. Ref. No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-34m)	Band 2 (34-150m)	Band 3 PCH (>150m)	Notes on habitat and activity	Comments	Surveyor
WE001	05/03/2020	1	White-tailed Eagle	1	12:21	655	0	55	600	PB3, (Lowland blanket bog) WD4, (Conifer plantation) GA1, (Improved agricultural grassland) circling high, then dropped.	c.7km distant, max 400m high, probable immature	CC

- Development Footprint
- Turbines Constructed
- 500m Buffer of Turbines
- Vantage Point Locations
- White-tailed Eagle Observation

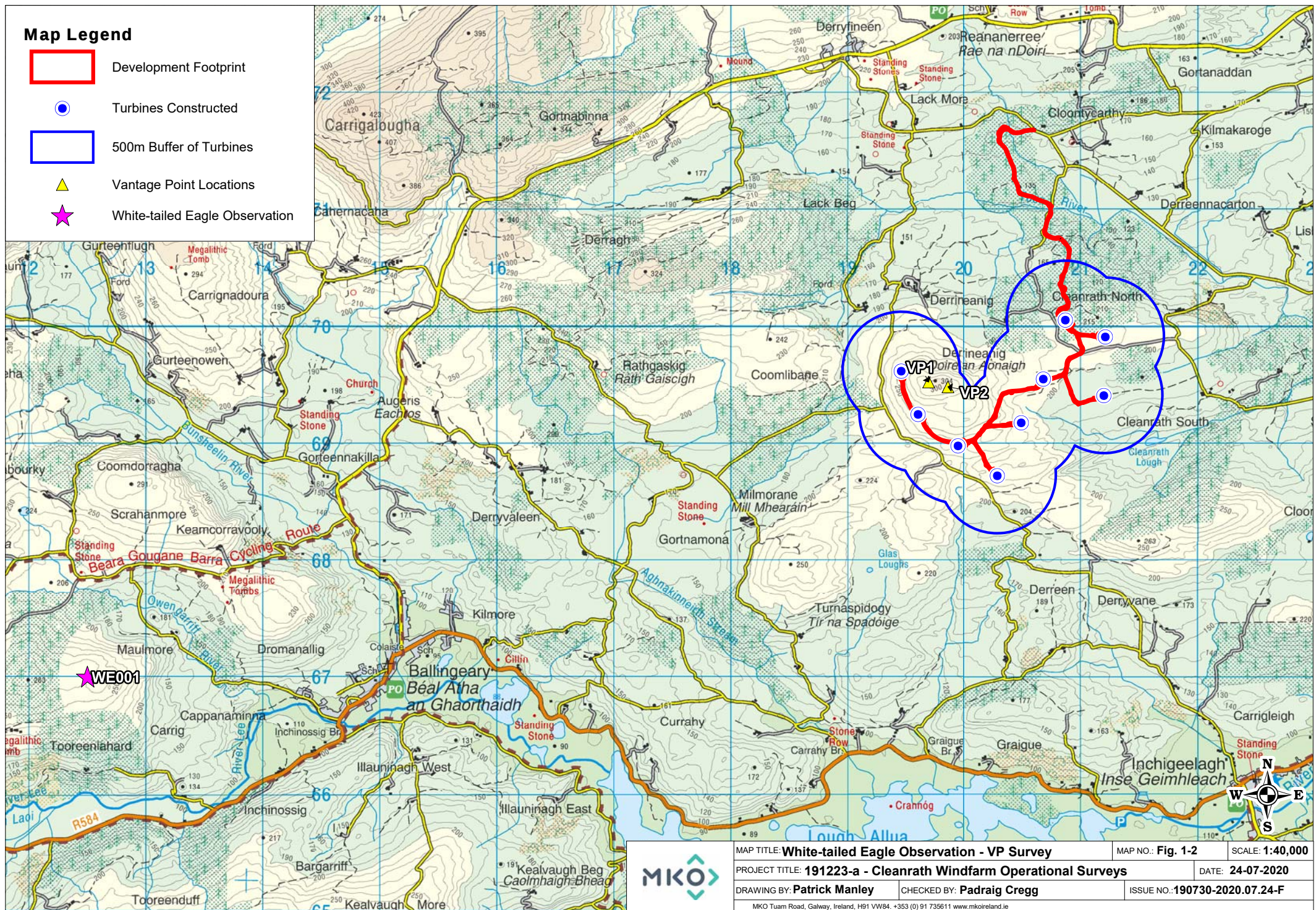


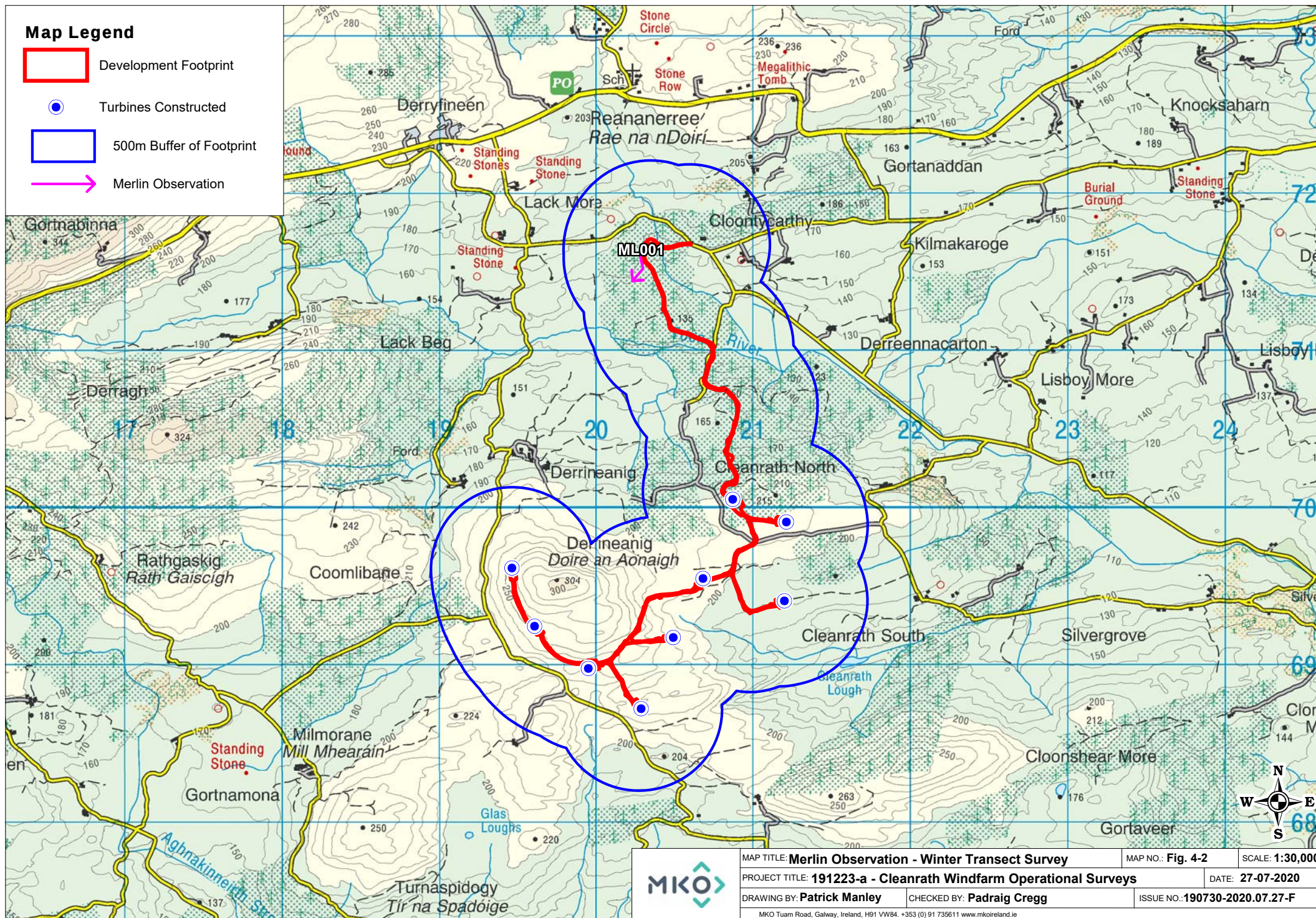
Table 4 Merlin Survey Data

Winter Transect Surveys						
Obs. Ref. No.	Survey Date	Species	Number of birds	Notes on Habitat and Activity	Comments	Surveyor
ML001	12/03/2020	Merlin	1	PB2, (Upland blanket bog) HH3, (Wet heath) GA1, (Improved agricultural grassland) possibly hunting	Potential breeding site.	CC

Incidental Observations					
Date	Survey Type	Species	Number of Individuals	Notes	Surveyor
05/02/2020	Hen Harrier Roost Survey	Merlin	1	Hunting, flew E towards Derragh Windfarm.	SA
05/03/2020	Hen Harrier Roost Survey	Merlin	1	plus 147s perched on roadside. Adult male	CC

Map Legend

-  Development Footprint
-  Turbines Constructed
-  500m Buffer of Footprint
-  Merlin Observation



MAP TITLE: Merlin Observation - Winter Transect Survey	MAP NO.: Fig. 4-2	SCALE: 1:30,000
PROJECT TITLE: 191223-a - Cleanrath Windfarm Operational Surveys	DATE: 27-07-2020	
DRAWING BY: Patrick Manley	CHECKED BY: Padraig Cregg	ISSUE NO.: 190730-2020.07.27-F
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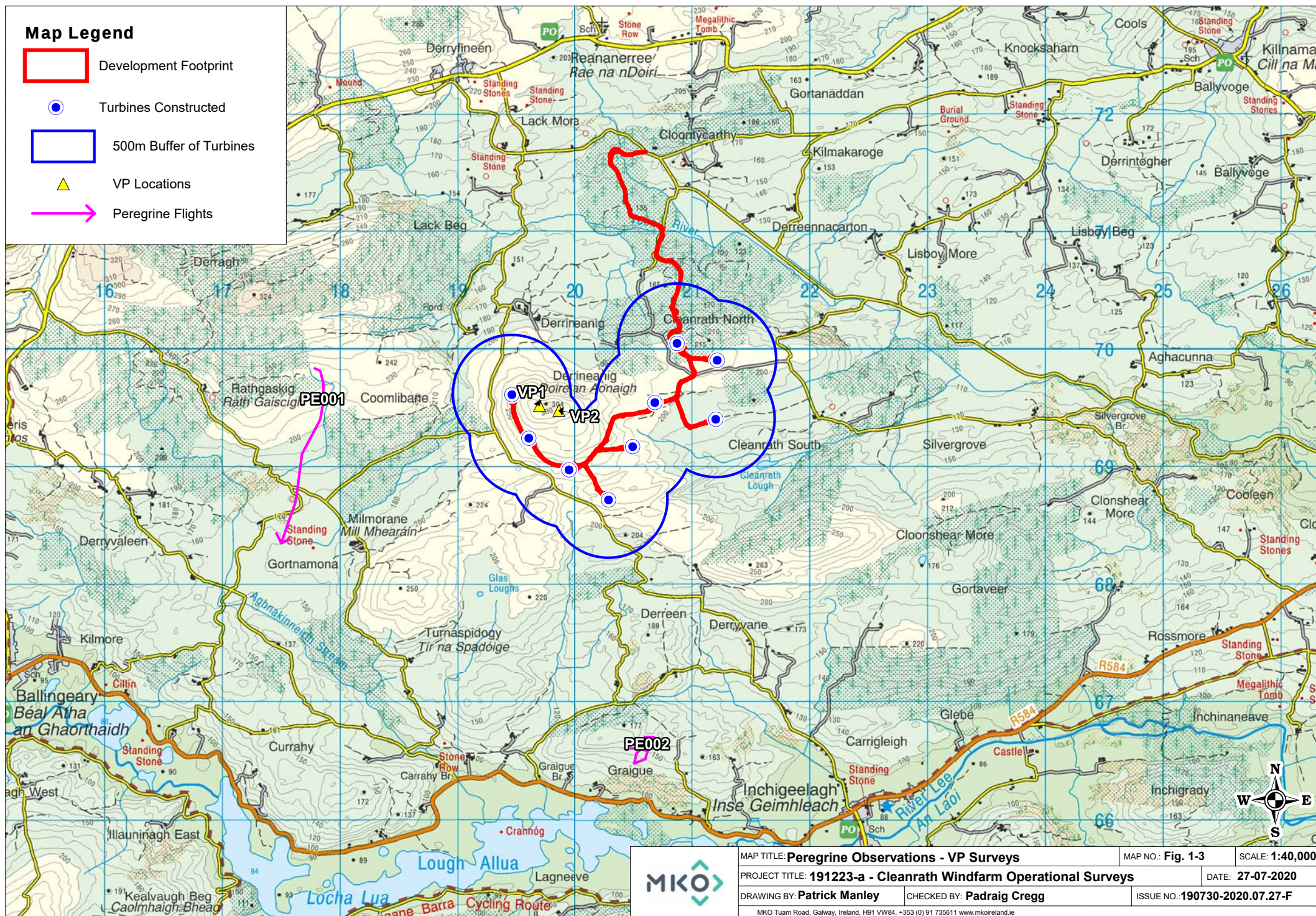
Table 5 Peregrine Survey Data

Vantage Point Surveys												
Obs. Ref. No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-34m)	Band 2 (34-150m)	Band 3 PCH (>150m)	Notes on habitat and activity	Comments	Surveyor
PE001	05/03/2020	1	Peregrine	1	10:23	198	0	81	112	PB2, (Upland blanket bog) GA1, (Improved agricultural grassland) flying		CC
PE002	14/03/2020	2	Peregrine	1	12:01	28	0	0	28	possible adult circling at 300m		CC

Incidental Observations					
Date	Survey Type	Species	Number of Individuals	Notes	Surveyor
12/03/2020	Hen Harrier Roost Survey	Peregrine	1	Foraging	CC
12/03/2020	Hen Harrier Roost Survey	Peregrine	1	Flying	CC

Map Legend

-  Development Footprint
-  Turbines Constructed
-  500m Buffer of Turbines
-  VP Locations
-  Peregrine Flights



MAP TITLE: **Peregrine Observations - VP Surveys**

MAP NO.: **Fig. 1-3**

SCALE: **1:40,000**

PROJECT TITLE: **191223-a - Cleanrath Windfarm Operational Surveys**

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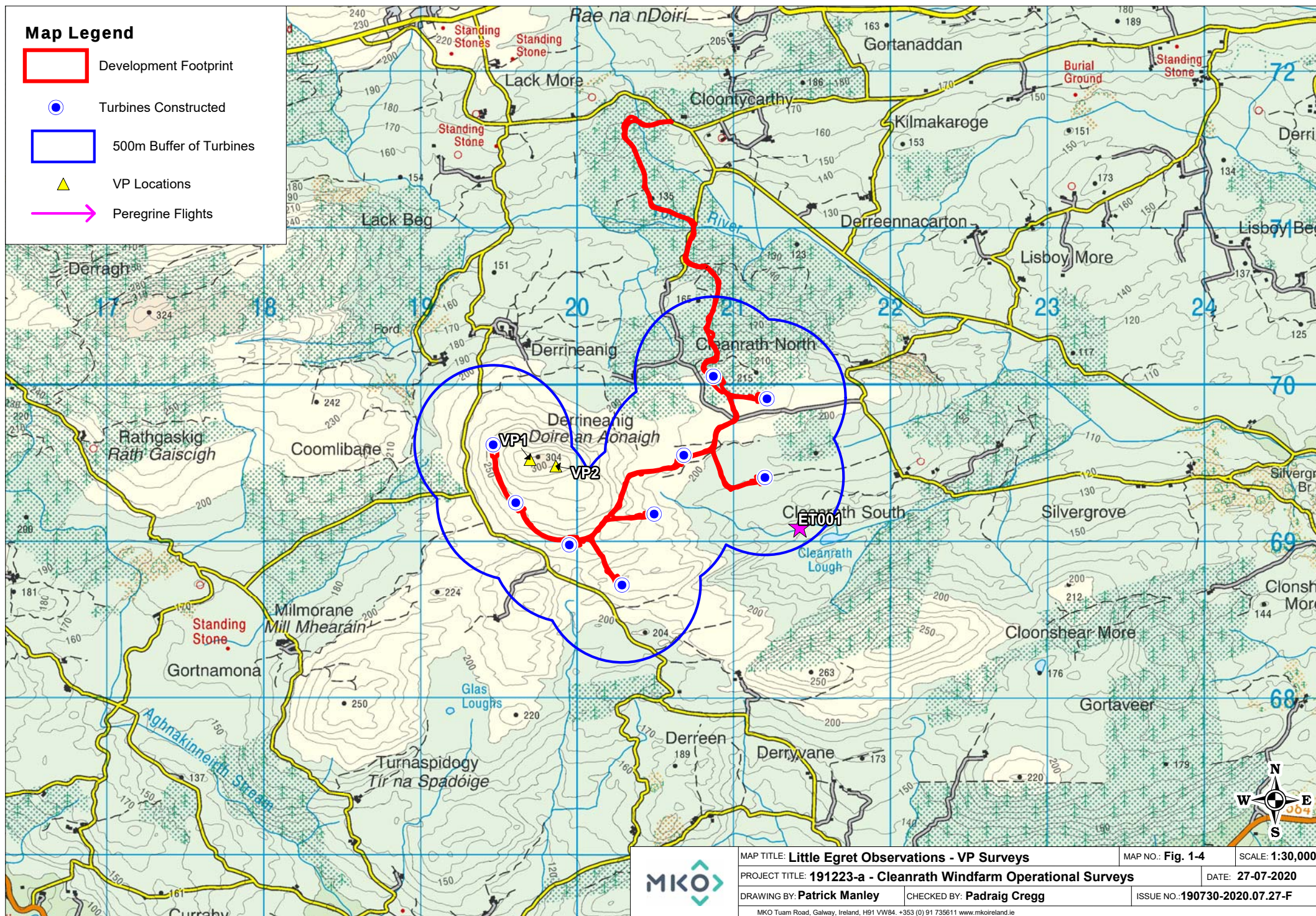
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Table 6 Little Egret Survey Data

Vantage Point Surveys												
Obs. Ref. No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-34m)	Band 2 (34-150m)	Band 3 PCH (>150m)	Notes on habitat and activity	Comments	Surveyor
ET001	14/03/2020	2	Little Egret	1	09:23	49	49	0	0	HH3, (Wet heath)	c20m, flew on, lost behind trees	CC

Map Legend

-  Development Footprint
-  Turbines Constructed
-  500m Buffer of Turbines
-  VP Locations
-  Peregrine Flights



MAP TITLE: **Little Egret Observations - VP Surveys**

MAP NO.: **Fig. 1-4**

SCALE: **1:30,000**

PROJECT TITLE: **191223-a - Cleanrath Windfarm Operational Surveys**

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Table 7 Woodcock Survey Data

Incidental Observations					
Date	Survey Type	Species	Number of Individuals	Notes	Surveyor
04/03/2020	Hen Harrier Roost Survey	Woodcock	1	2 passes, 30 sec apart, assuming not same bird	CC
04/03/2020	Hen Harrier Roost Survey	Woodcock	1	2 passes, 30 sec apart, assuming not same bird	CC
05/03/2020	Hen Harrier Roost Survey	Woodcock	1	flew along forest edge	CC

Table 8 Kestrel Survey Data

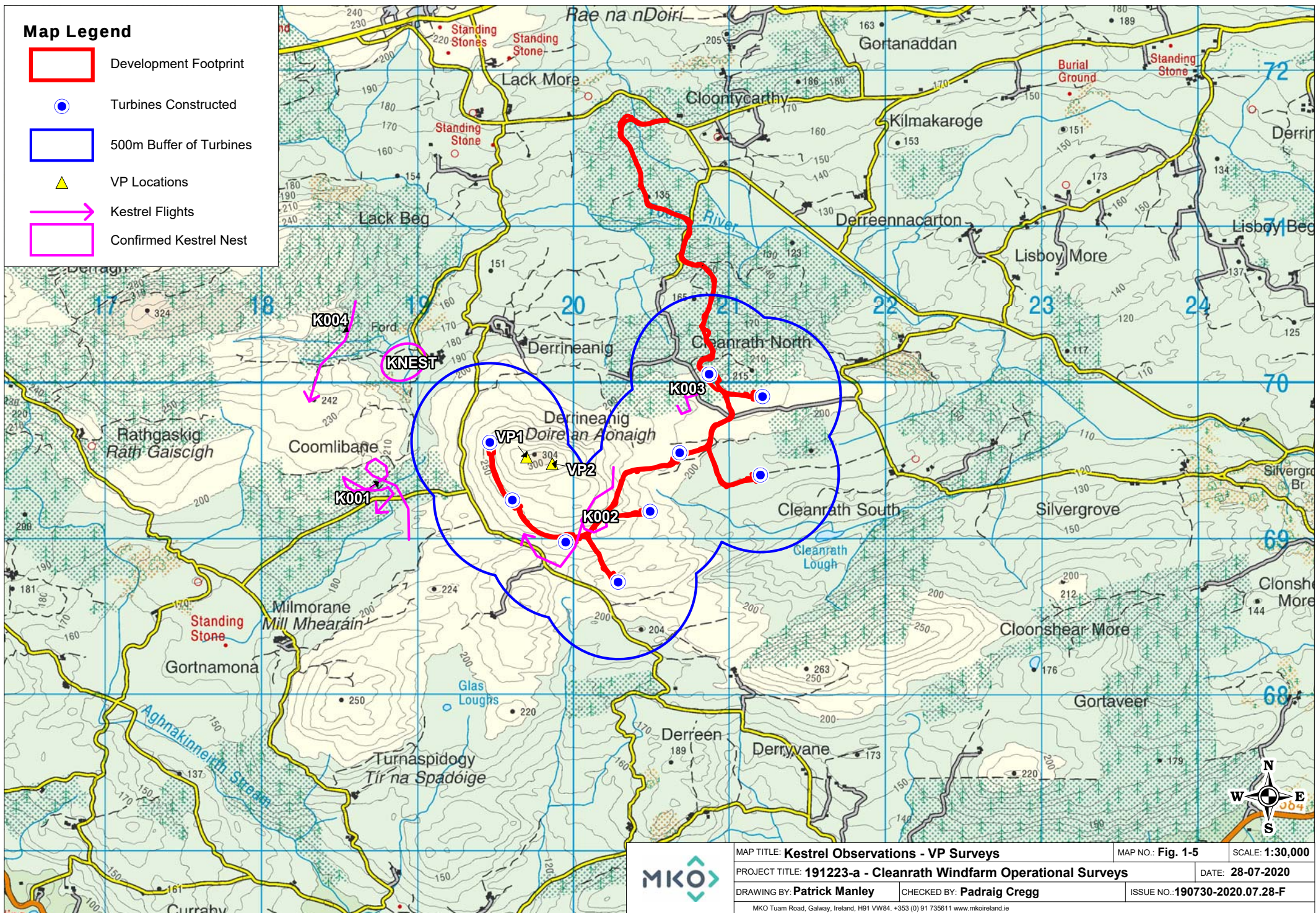
Vantage Point Surveys												
Obs. Ref. No.	Date	VP	Species	No. of Birds	Time of flight	Duration of flight (s)	Band 1 (0-34m)	Band 2 (34-150m)	Band 3 PCH (>150m)	Notes on habitat and activity	Comments	Surveyor
K001	05/03/2020	1	Kestrel	1	09:07	138	20	118	0	WD4, (Conifer plantation) WS5, (Recently-felled woodland) HH3, (Wet heath) display	Adult male	CC
K002	14/03/2020	2	Kestrel	1	07:31	273	210	63	0	PB2, (Upland blanket bog) foraging	plus 35s eating small prey on ground	CC
K003	14/03/2020	2	Kestrel	1	08:23	78	60	18	0	WD4, (Conifer plantation) GS4, (Wet grassland) PB2, (Upland blanket bog) foraging		CC
K005	03/05/2020	1	Kestrel	2	06:05	300	100	200	0	GS4, (Wet grassland) WD4, (Conifer plantation) Perched, foraging, Male brought food to female, She stayed at sight (likely still sitting),	Breeding Pair-hence multiple flight times recorded all outside 500m buffer.	SA
KNEST	03/05/2020	1	Kestrel								Possible Nest Location	SA

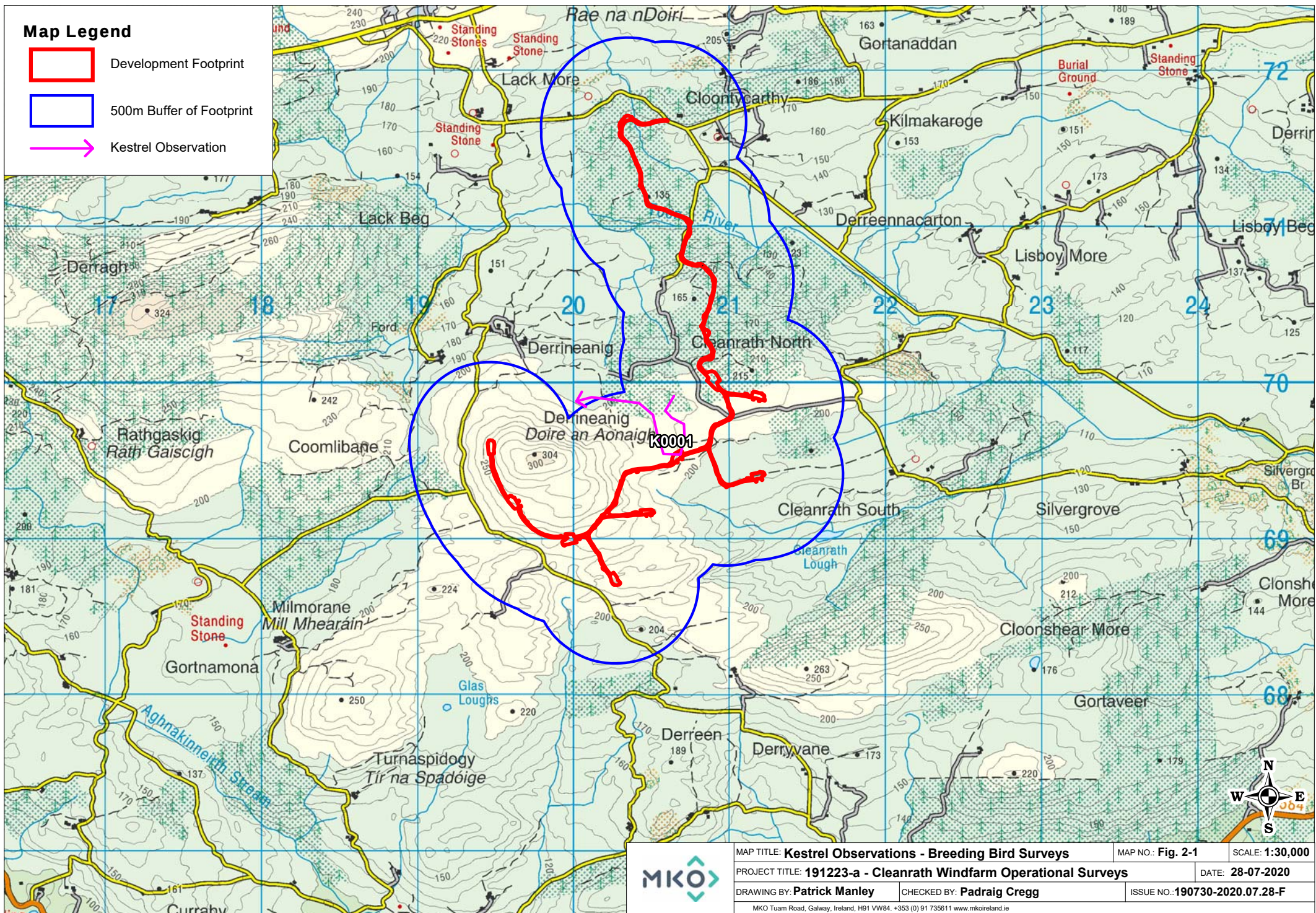
Breeding Bird Surveys										
Obs. Ref. No.	Survey Date	Time of observation	Species	Number of birds	Notes on Habitat and Activity			Comments	Surveyor	
K0001	23/05/2020	08:18	Kestrel	1	BL, (Built land)	WD4, (Conifer plantation)	GS4, (Wet grassland)	Foraging	Flew at collision height 34-150m and very close to turbine rotating blades.	SA

Breeding Raptor Surveys								
Obs. Ref. No.	Date	RVP	Species	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
K001	09/05/2020	2	Kestrel	1	10:10	GS4, (Wet grassland) Hunting	Adult Male	SA

Winter Transect Surveys								
Obs. Ref. No.	Survey Date	Species	Number of birds	Notes on Habitat and Activity			Comments	Surveyor
K001	12/03/2020	Kestrel	1	PB2, (Upland blanket bog)	HH3, (Wet heath)	GA1, (Improved agricultural grassland) display		CC
K002	12/03/2020	Kestrel	1	PB2, (Upland blanket bog)	HH3, (Wet heath)	GA1, (Improved agricultural grassland) foraging		CC
K003	12/03/2020	Kestrel	1	PB2, (Upland blanket bog)	HH3, (Wet heath)	GA1, (Improved agricultural grassland) foraging		CC

Incidental Observations					
Date	Survey Type	Species	Number of Individuals	Notes	Surveyor
05/02/2020	Hen Harrier Roost Survey	Kestrel	1	Hunting, flew E towards Derragh Windfarm.	SA
08/02/2020	Hen Harrier Roost Survey	Kestrel	1	Hunting , flew W	SA
04/03/2020	Hen Harrier Roost Survey	Kestrel	1	Foraging. Adult male	CC
05/03/2020	Hen Harrier Roost Survey	Kestrel	1	foraging. Female /immature	CC
05/03/2020	Hen Harrier Roost Survey	Kestrel	1	fem/imm type, prob landing to roost	CC
14/03/2020	Hen Harrier Roost Survey	Kestrel	1	foraging. max 40m	CC





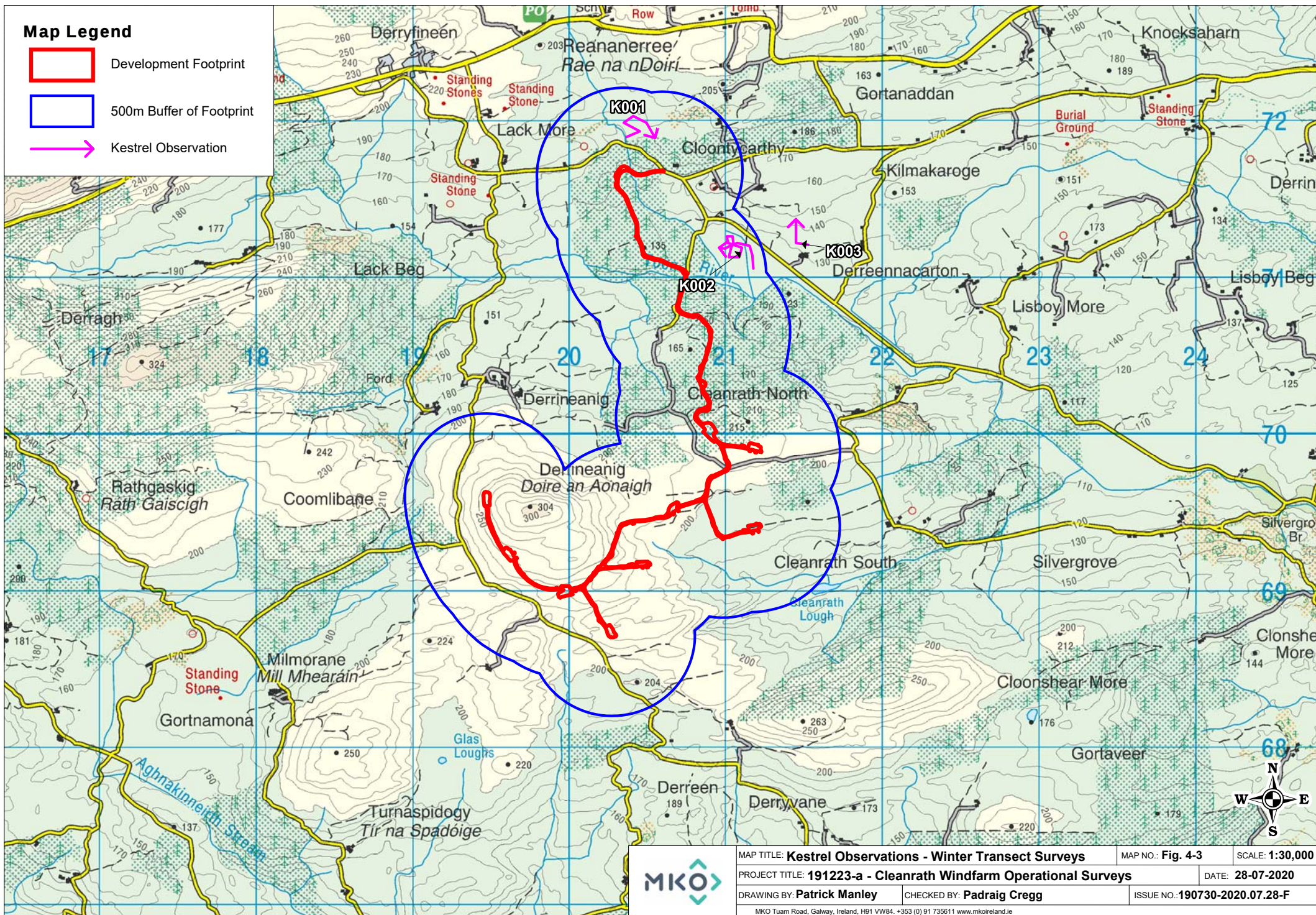
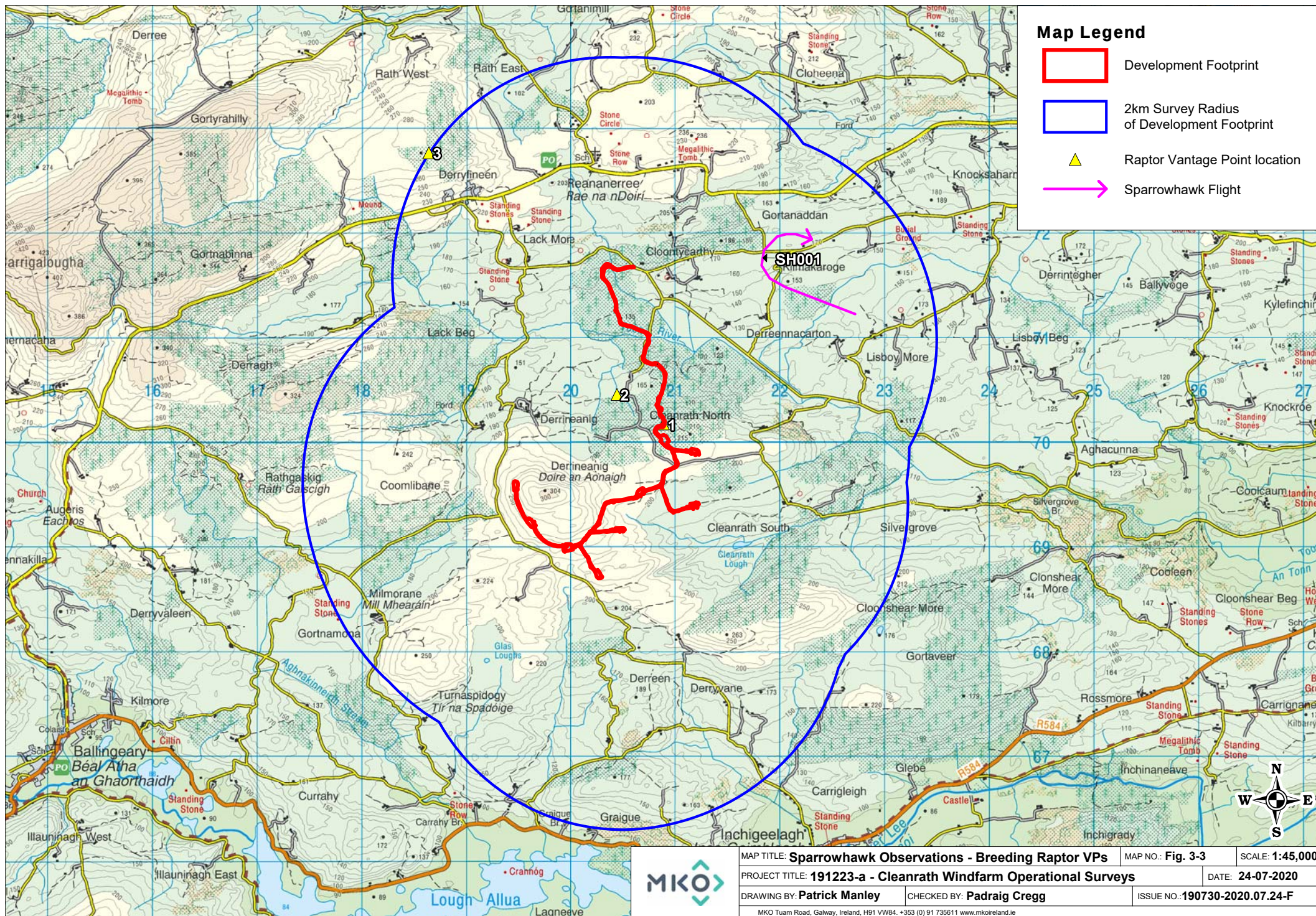


Table 9 Sparrowhawk Survey Data

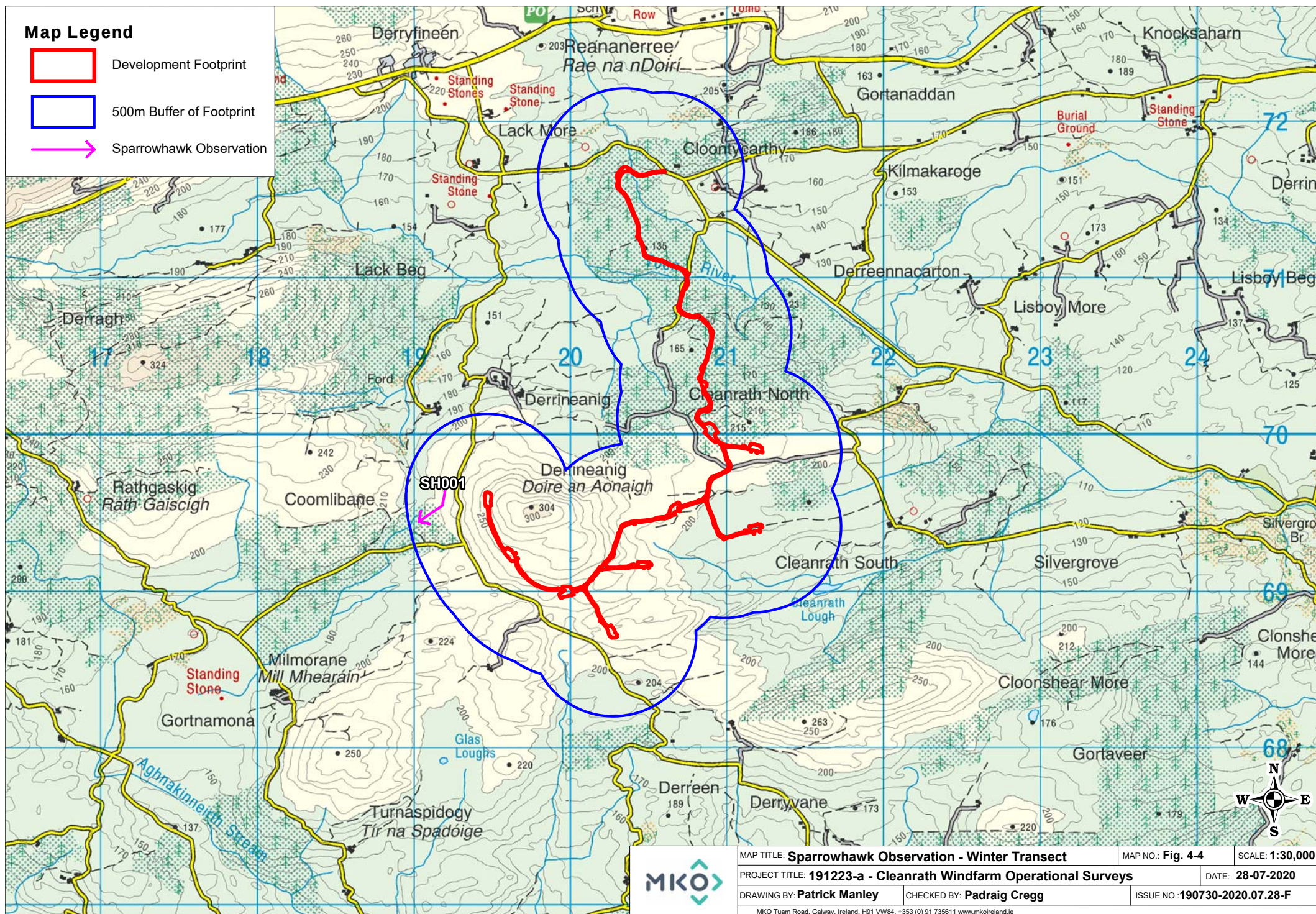
Breeding Raptor Surveys								
Obs. Ref. No.	Date	RVP	Species	No. of Birds	Time of flight	Notes on habitat and activity	Comments	Surveyor
SH001	09/05/2020	1	Sparrowhawk	1	08:05	WD4, (Conifer plantation) GS4, (Wet grassland) Hunting	Adult Male	SA

Winter Transect Surveys								
Obs. Ref. No.	Survey Date	Species	Number of birds	Notes on Habitat and Activity			Comments	Surveyor
SH001	12/03/2020	Sparrowhawk	1	PB2, (Upland blanket bog)	HH3, (Wet heath)	GA1, (Improved agricultural grassland)	Flew over	CC



Map Legend

-  Development Footprint
-  500m Buffer of Footprint
-  Sparrowhawk Observation



MAP TITLE: Sparrowhawk Observation - Winter Transect	MAP NO.: Fig. 4-4	SCALE: 1:30,000
PROJECT TITLE: 191223-a - Cleanrath Windfarm Operational Surveys	DATE: 28-07-2020	
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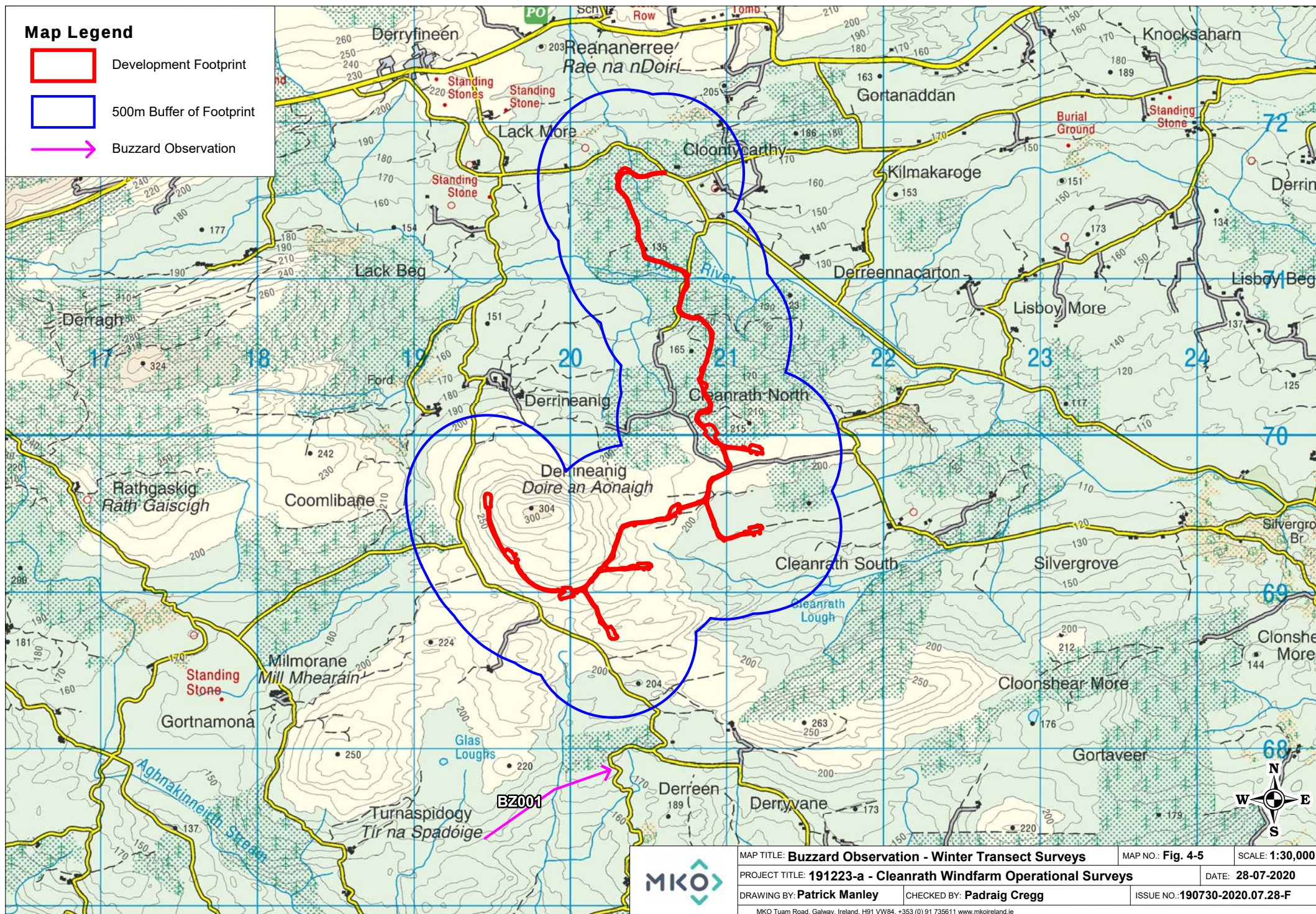
Table 10 Buzzard Survey Data

Winter Transect Surveys						
Obs. Ref. No.	Survey Date	Species	Number of birds	Notes on Habitat and Activity	Comments	Surveyor
BZ001	05/02/2020	Buzzard	1	HH, (Heath) WD4, (Conifer plantation) Flying high from SW to lowered flight NE	13:15	SA

Incidental Observations					
Date	Survey Type	Species	Number of Individuals	Notes	Surveyor
06/02/2020	Hen Harrier Roost Survey	Buzzard	1	Flying. Dropped height over WD4 habitat.	SA
15/02/2020	Hen Harrier Roost Survey	Buzzard	1	Flying over WD4	SA
14/03/2020	Hen Harrier Roost Survey	Buzzard	1	soaring	CC

Map Legend

-  Development Footprint
-  500m Buffer of Footprint
-  Buzzard Observation



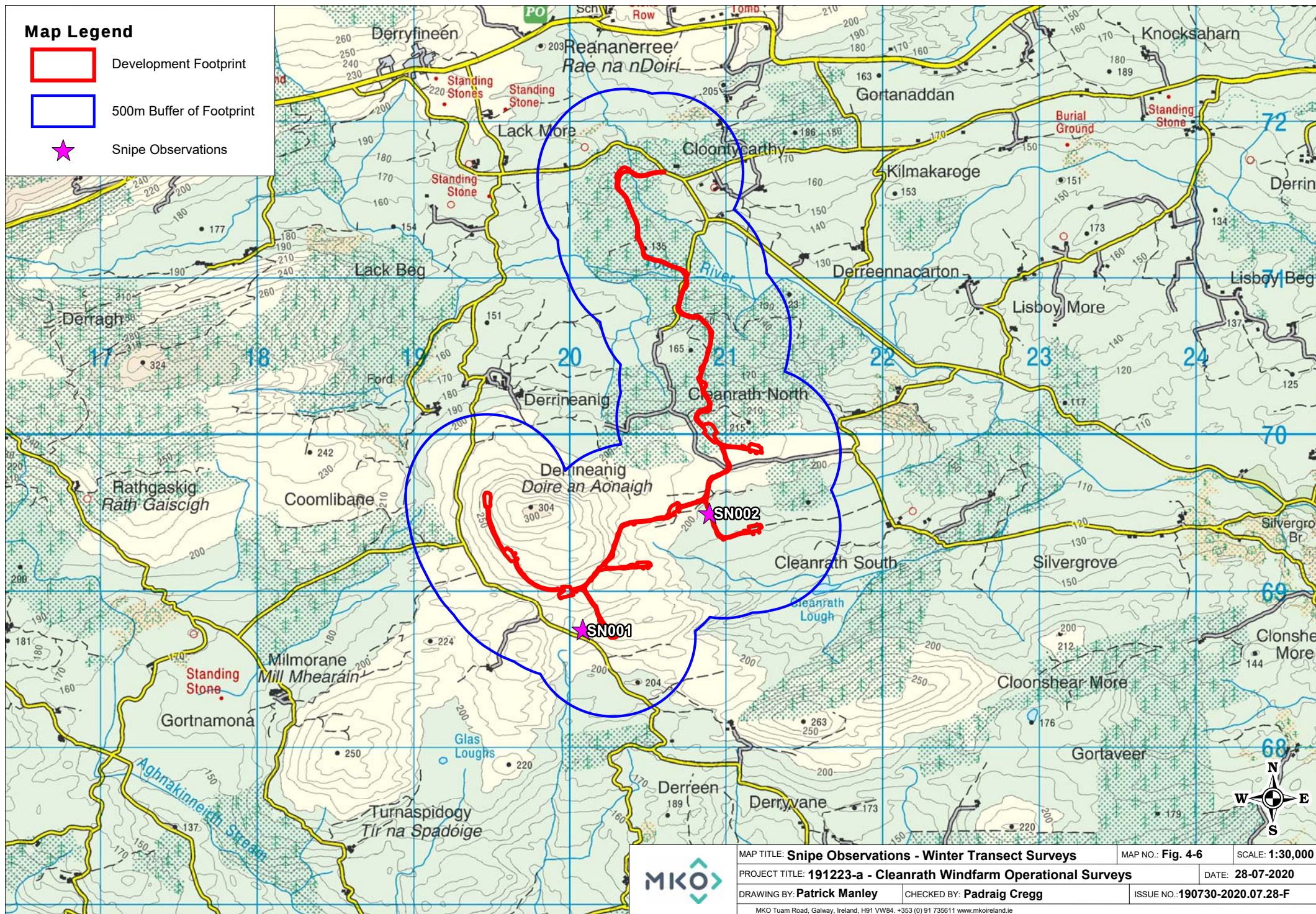
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PROJECT TITLE: 191223-a - Cleanrath Windfarm Operational Surveys			DATE: 28-07-2020
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Table 11 Snipe Survey Data

Winter Transect Surveys								
Obs. Ref. No.	Survey Date	Species	Number of birds	Notes on Habitat and Activity			Comments	Surveyor
SN001	05/03/2020	Snipe	1	PB2, (Upland blanket bog)	HH3, (Wet heath)	GA1, (Improved agricultural grassland) 1 chipping	1 Chipping	CC
SN002	05/03/2020	Snipe	1	PB2, (Upland blanket bog)	HH3, (Wet heath)	GA1, (Improved agricultural grassland) 1 flushed	1 Flushed	CC

Map Legend

-  Development Footprint
-  500m Buffer of Footprint
-  Snipe Observations



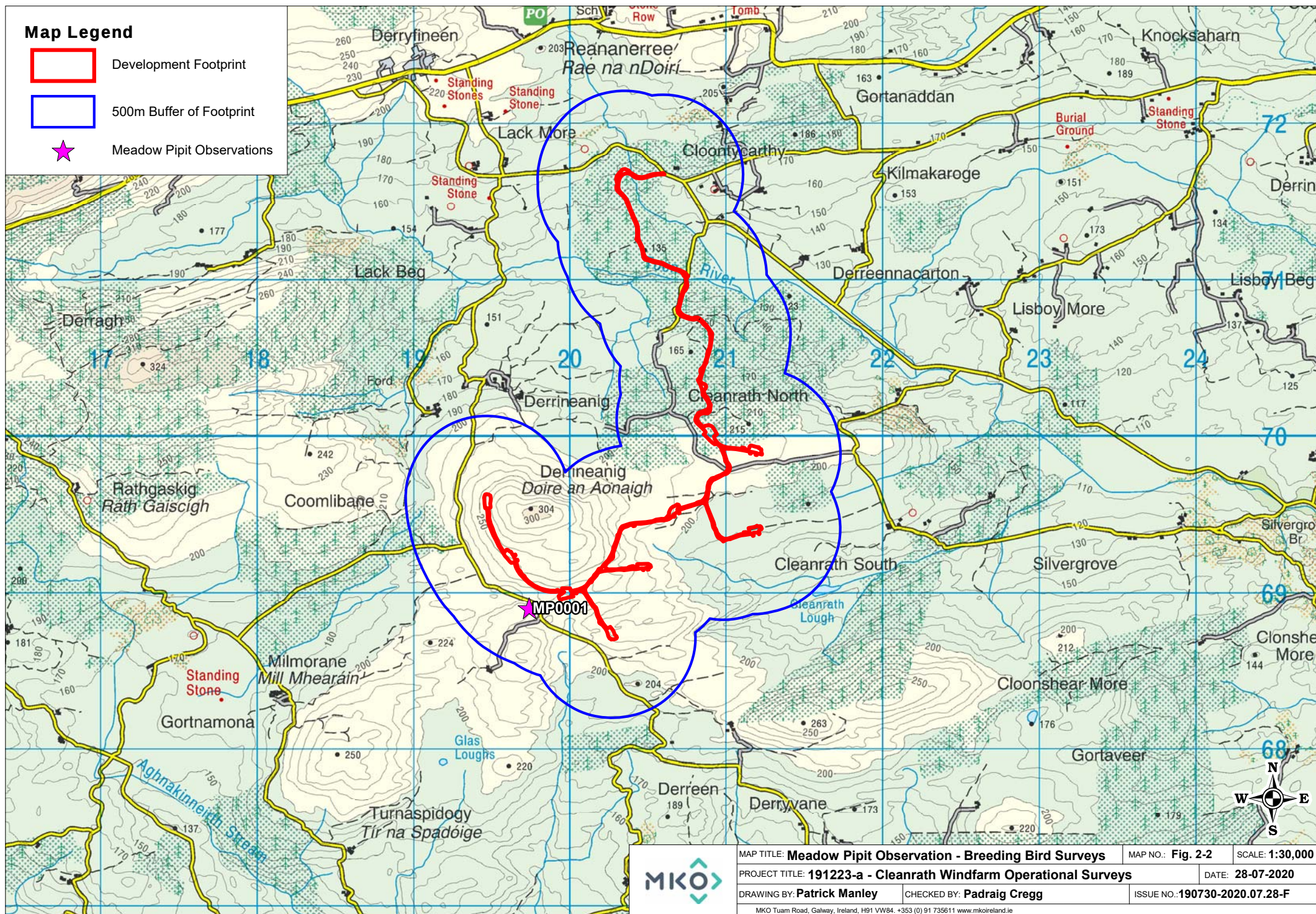
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PROJECT TITLE: 191223-a - Cleanrath Windfarm Operational Surveys	DATE: 28-07-2020	
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Table 12 Meadow Pipit Survey Data

Breeding Bird Surveys									
Obs. Ref. No.	Survey Date	Time of observation	Species	Number of birds	Notes on Habitat and Activity			Comments	Surveyor
MP0001	23/05/2020	06:45	Meadow Pipit	2	BL, (Built land)	WD4, (Conifer plantation)	Calling, Flying	Juv = Juvenile	SA

Map Legend

-  Development Footprint
-  500m Buffer of Footprint
-  Meadow Pipit Observations



MAP TITLE: Meadow Pipit Observation - Breeding Bird Surveys	MAP NO.: Fig. 2-2	SCALE: 1:30,000
PROJECT TITLE: 191223-a - Cleanrath Windfarm Operational Surveys	DATE: 28-07-2020	
DRAWING BY: Patrick Manley	CHECKED BY: Padraig Cregg	ISSUE NO.: 190730-2020.07.28-F
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