

TRAFFINOMICS LIMITED

TRAFFINOMICS LIMITED

KILSARAN, NAUL TRAFFIC COUNTS
AUTOMATIC TRAFFIC COUNTS

Tuesday 23 May 2023 KILSARAN, NAUL TRAFFIC COUNTS
TRA/23/106 AUTOMATIC TRAFFIC COUNTS

Tuesday 23 May 2023
TRA/23/106

SITE 02
NORTHBOUND

SITE 02
SOUTHBOUND

| TIME | PCL/MCL | CAR* | LGV** | OGV 1 | OGV 2 | BUS | TOTAL | PCU | TIME | PCL/MCL | CAR* | LGV** | OGV 1 | OGV 2 | BUS | TOTAL | PCU |
|-------|---------|------|-------|-------|-------|-----|-------|------|-------|---------|------|-------|-------|-------|-----|-------|------|
| 0000 | 0 | 2 | 1 | 0 | 0 | 0 | 3 | 3 | 0000 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 2 |
| 0100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0100 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| 0200 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0300 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 2 |
| 0400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0400 | 0 | 5 | 0 | 0 | 0 | 0 | 5 | 5 |
| 0500 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 4 | 0500 | 0 | 15 | 1 | 1 | 1 | 0 | 18 | 20 |
| 0600 | 0 | 15 | 0 | 1 | 1 | 0 | 17 | 19 | 0600 | 0 | 55 | 10 | 0 | 3 | 0 | 68 | 72 |
| 0700 | 0 | 25 | 5 | 0 | 0 | 0 | 30 | 30 | 0700 | 1 | 94 | 21 | 2 | 5 | 0 | 123 | 130 |
| 0800 | 0 | 49 | 9 | 2 | 6 | 0 | 66 | 75 | 0800 | 2 | 129 | 19 | 4 | 5 | 1 | 160 | 168 |
| 0900 | 0 | 34 | 7 | 1 | 6 | 0 | 48 | 56 | 0900 | 1 | 40 | 6 | 0 | 9 | 0 | 56 | 67 |
| 1000 | 0 | 19 | 7 | 0 | 9 | 0 | 35 | 47 | 1000 | 0 | 27 | 8 | 0 | 11 | 0 | 46 | 60 |
| 1100 | 2 | 24 | 8 | 1 | 12 | 0 | 47 | 62 | 1100 | 2 | 28 | 3 | 0 | 7 | 0 | 40 | 48 |
| 1200 | 0 | 29 | 9 | 1 | 8 | 0 | 47 | 58 | 1200 | 1 | 38 | 6 | 0 | 11 | 0 | 56 | 70 |
| 1300 | 1 | 39 | 6 | 1 | 3 | 0 | 50 | 54 | 1300 | 0 | 34 | 11 | 0 | 5 | 0 | 50 | 57 |
| 1400 | 1 | 42 | 5 | 2 | 10 | 0 | 60 | 73 | 1400 | 1 | 36 | 6 | 1 | 11 | 0 | 55 | 69 |
| 1500 | 0 | 74 | 15 | 2 | 12 | 1 | 104 | 122 | 1500 | 0 | 37 | 5 | 2 | 6 | 0 | 50 | 59 |
| 1600 | 1 | 74 | 20 | 2 | 12 | 0 | 109 | 125 | 1600 | 1 | 49 | 8 | 2 | 7 | 1 | 68 | 78 |
| 1700 | 3 | 126 | 18 | 1 | 3 | 0 | 151 | 153 | 1700 | 0 | 49 | 4 | 1 | 5 | 0 | 59 | 66 |
| 1800 | 2 | 86 | 11 | 0 | 7 | 0 | 106 | 114 | 1800 | 0 | 40 | 5 | 2 | 0 | 0 | 47 | 48 |
| 1900 | 1 | 57 | 7 | 1 | 1 | 0 | 67 | 68 | 1900 | 6 | 34 | 7 | 0 | 2 | 1 | 50 | 49 |
| 2000 | 2 | 43 | 2 | 1 | 0 | 0 | 48 | 47 | 2000 | 1 | 19 | 5 | 0 | 0 | 0 | 25 | 24 |
| 2100 | 0 | 35 | 4 | 3 | 0 | 0 | 42 | 44 | 2100 | 0 | 25 | 1 | 0 | 0 | 0 | 26 | 26 |
| 2200 | 0 | 15 | 1 | 0 | 0 | 0 | 16 | 16 | 2200 | 0 | 15 | 2 | 0 | 1 | 0 | 18 | 19 |
| 2300 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 4 | 2300 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| 07-19 | 10 | 621 | 120 | 13 | 88 | 1 | 853 | 967 | 07-19 | 9 | 601 | 102 | 14 | 82 | 2 | 810 | 918 |
| 06-22 | 13 | 771 | 133 | 19 | 90 | 1 | 1027 | 1144 | 06-22 | 16 | 734 | 125 | 14 | 87 | 3 | 979 | 1022 |
| 06-00 | 13 | 790 | 134 | 19 | 90 | 1 | 1047 | 1164 | 06-00 | 16 | 750 | 127 | 14 | 88 | 3 | 998 | 1109 |
| 00-00 | 13 | 798 | 135 | 19 | 90 | 1 | 1056 | 1173 | 00-00 | 16 | 774 | 129 | 15 | 89 | 3 | 1026 | 1139 |

Meath County Council - Working Draft - For Review Purposes Only!
RECEIVED: 29/11/2024

KILSARAN, NAUL TRAFFIC COUNTS
AUTOMATIC TRAFFIC COUNTS

TRAFFINOMICS LIMITED

SITE 02
NORTHBOUND

WEEK COMMENCING:
Wednesday 17 May 2023
TRA/23/106

| TIME PERIOD | Wednesday 17 May 2023 | Thursday 18 May 2023 | Friday 19 May 2023 | Saturday 20 May 2023 | Sunday 21 May 2023 | Monday 22 May 2023 | Tuesday 23 May 2023 | Average |
|-------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------------------|-----------------------|------------------------|---------|
| 0000 | 2 | 2 | 1 | 6 | 10 | 2 | 3 | 4 |
| 0100 | 2 | 2 | 1 | 9 | 3 | 0 | 0 | 2 |
| 0200 | 2 | 0 | 1 | 2 | 2 | 0 | 1 | 1 |
| 0300 | 2 | 2 | 1 | 0 | 2 | 1 | 1 | 1 |
| 0400 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 0500 | 2 | 3 | 1 | 1 | 2 | 3 | 4 | 2 |
| 0600 | 10 | 11 | 15 | 12 | 1 | 18 | 17 | 12 |
| 0700 | 40 | 41 | 32 | 22 | 8 | 36 | 30 | 30 |
| 0800 | 54 | 63 | 64 | 25 | 8 | 56 | 66 | 48 |
| 0900 | 50 | 51 | 60 | 44 | 37 | 56 | 48 | 49 |
| 1000 | 39 | 42 | 40 | 45 | 32 | 48 | 35 | 40 |
| 1100 | 43 | 33 | 52 | 51 | 40 | 34 | 47 | 43 |
| 1200 | 51 | 69 | 56 | 61 | 58 | 46 | 47 | 55 |
| 1300 | 48 | 73 | 62 | 85 | 67 | 61 | 50 | 64 |
| 1400 | 49 | 76 | 87 | 44 | 59 | 62 | 60 | 62 |
| 1500 | 67 | 83 | 82 | 69 | 58 | 73 | 104 | 77 |
| 1600 | 123 | 119 | 104 | 58 | 40 | 122 | 109 | 96 |
| 1700 | 133 | 141 | 102 | 58 | 39 | 114 | 151 | 105 |
| 1800 | 89 | 88 | 73 | 38 | 50 | 75 | 106 | 74 |
| 1900 | 66 | 63 | 51 | 41 | 38 | 56 | 67 | 55 |
| 2000 | 48 | 53 | 44 | 52 | 34 | 57 | 48 | 48 |
| 2100 | 37 | 39 | 32 | 28 | 15 | 32 | 42 | 32 |
| 2200 | 21 | 20 | 20 | 12 | 12 | 20 | 16 | 17 |
| 2300 | 5 | 3 | 4 | 8 | 9 | 8 | 4 | 6 |
| 07-19 | 786 | 879 | 814 | 600 | 496 | 783 | 853 | 744 |
| 06-22 | 947 | 1045 | 956 | 733 | 584 | 946 | 1027 | 891 |
| 06-00 | 973 | 1068 | 980 | 753 | 605 | 974 | 1047 | 914 |
| 00-00 | 984 | 1078 | 986 | 772 | 624 | 980 | 1056 | 926 |

KILSARAN, NAUL TRAFFIC COUNTS
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SITE 02
SOUTHBOUND

WEEK COMMENCING:
Wednesday 17 May 2023
TRA/23/106

| TIME PERIOD | Wednesday 17 May 2023 | Thursday 18 May 2023 | Friday 19 May 2023 | Saturday 20 May 2023 | Sunday 21 May 2023 | Monday 22 May 2023 | Tuesday 23 May 2023 | Average |
|-------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------------------|-----------------------|------------------------|---------|
| 0000 | 1 | 2 | 4 | 5 | 5 | 2 | 2 | 3 |
| 0100 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 |
| 0200 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 |
| 0300 | 1 | 2 | 0 | 1 | 2 | 0 | 2 | 1 |
| 0400 | 8 | 3 | 5 | 0 | 2 | 7 | 5 | 4 |
| 0500 | 11 | 12 | 12 | 5 | 2 | 13 | 18 | 10 |
| 0600 | 69 | 67 | 61 | 19 | 2 | 58 | 68 | 49 |
| 0700 | 145 | 131 | 111 | 36 | 18 | 135 | 123 | 100 |
| 0800 | 171 | 135 | 125 | 33 | 20 | 132 | 160 | 111 |
| 0900 | 59 | 56 | 73 | 58 | 27 | 75 | 56 | 58 |
| 1000 | 49 | 39 | 54 | 70 | 34 | 53 | 46 | 49 |
| 1100 | 45 | 52 | 48 | 66 | 70 | 43 | 40 | 52 |
| 1200 | 43 | 61 | 44 | 56 | 49 | 52 | 56 | 52 |
| 1300 | 37 | 45 | 39 | 58 | 64 | 36 | 50 | 47 |
| 1400 | 56 | 57 | 65 | 45 | 42 | 53 | 55 | 53 |
| 1500 | 48 | 59 | 83 | 60 | 53 | 50 | 50 | 58 |
| 1600 | 55 | 55 | 58 | 39 | 44 | 66 | 68 | 55 |
| 1700 | 57 | 63 | 58 | 53 | 45 | 63 | 59 | 57 |
| 1800 | 54 | 57 | 42 | 48 | 36 | 53 | 47 | 48 |
| 1900 | 53 | 48 | 38 | 32 | 23 | 47 | 50 | 42 |
| 2000 | 29 | 24 | 27 | 24 | 22 | 18 | 25 | 24 |
| 2100 | 13 | 21 | 18 | 23 | 13 | 20 | 26 | 19 |
| 2200 | 11 | 10 | 15 | 5 | 13 | 9 | 18 | 12 |
| 2300 | 5 | 2 | 8 | 8 | 6 | 3 | 1 | 5 |
| 07-19 | 819 | 810 | 800 | 622 | 502 | 811 | 810 | 739 |
| 06-22 | 983 | 970 | 944 | 720 | 562 | 954 | 979 | 873 |
| 06-00 | 999 | 982 | 967 | 733 | 581 | 966 | 998 | 889 |
| 00-00 | 1021 | 1003 | 990 | 746 | 595 | 990 | 1026 | 910 |

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WEEK COMMENCING: Wednesday 17 May 2023
TRA/23/106

SITE 02
NORTHBOUND

Profile:

Filter time: 00:00 8th May 2023 => 23:59 14th May 2023

Speed range: 0 - 200 km/h.

Separation: Greater than 4.00 seconds. - (Headway)

Units: Metric (meter, kilometer, m/s, km/h, kg, tonne)

Vehicles = 5751

Maximum = 106.3 km/h, Minimum = 9.6 km/h, Mean = 51.4 km/h

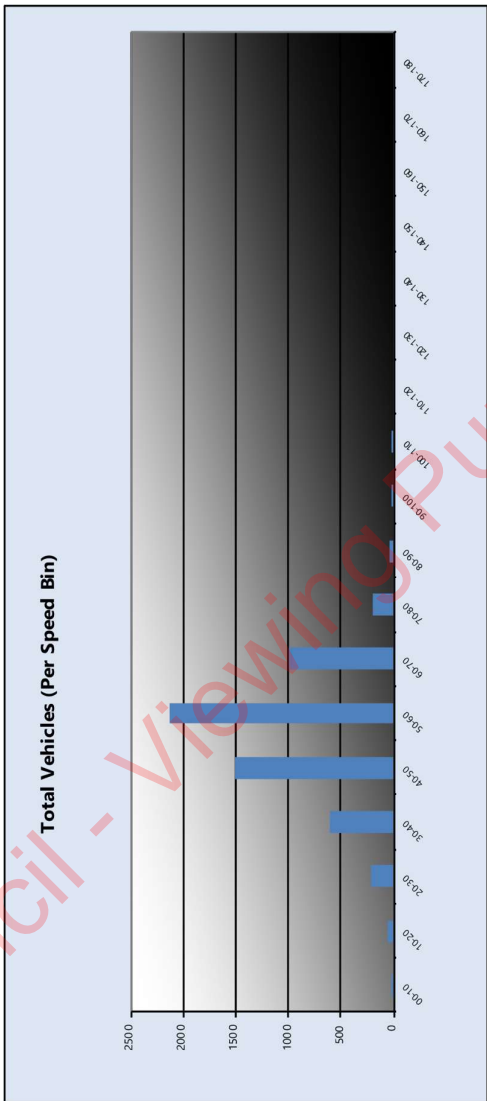
85% Speed = 62.46 km/h, 95% Speed = 69.21 km/h, Median = 52.29 km/h

20 km/h Pace = 43 - 63, Number in Pace = 3727 (64.81%)

Variance = 137.35, Standard Deviation = 11.72 km/h

Speed Bins:

| Speed KPH | Bin | |
|--------------|------|------|
| | No. | % |
| 00-10 | 1 | 0.0 |
| 10-20 | 59 | 1.0 |
| 20-30 | 212 | 3.7 |
| 30-40 | 609 | 10.6 |
| 40-50 | 1507 | 26.2 |
| 50-60 | 2125 | 37.0 |
| 60-70 | 996 | 17.3 |
| 70-80 | 197 | 3.4 |
| 80-90 | 35 | 0.6 |
| 90-100 | 8 | 0.1 |
| 100-110 | 2 | 0.0 |
| 110-120 | 0 | 0.0 |
| 120-130 | 0 | 0.0 |
| 130-140 | 0 | 0.0 |
| 140-150 | 0 | 0.0 |
| 150-160 | 0 | 0.0 |
| 160-170 | 0 | 0.0 |
| 170-180 | 0 | 0.0 |



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AUTOMATIC TRAFFIC COUNTS

WEEK COMMENCING: Wednesday 17 May 2023
TRA/23/106

SITE 02
SOUTHBOUND

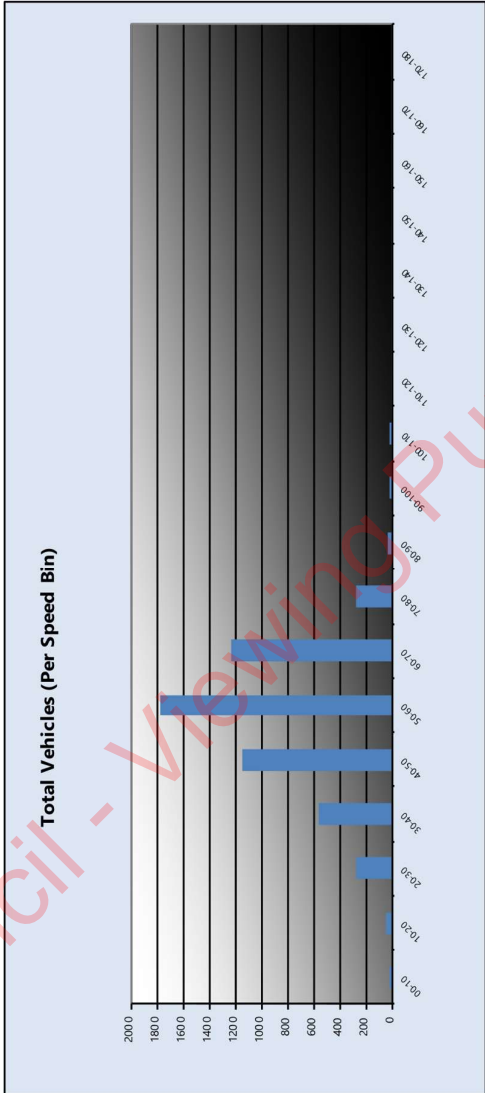
Profile:

Filter time: 00:00 8th May 2023 => 23:59 14th May 2023
Speed range: 0 - 200 km/h.
Separation: Greater than 4.00 seconds. - (Headway)
Units: Metric (meter, kilometer, m/s, km/h, kg, tonne)

Vehicles = 5330
Maximum = 102.6 km/h, Minimum = 6.9 km/h, Mean = 52.4 km/h
85% Speed = 64.71 km/h, 95% Speed = 70.74 km/h, Median = 53.73 km/h
20 km/h Pace = 46 - 66, Number in Pace = 3244 (60.86%)
Variance = 155.95, Standard Deviation = 12.49 km/h

Speed Bins:

| Speed KPH | Bin | |
|--------------|------|------|
| | No. | % |
| 00-10 | 1 | 0.0 |
| 10-20 | 41 | 0.8 |
| 20-30 | 274 | 5.1 |
| 30-40 | 562 | 10.5 |
| 40-50 | 1148 | 21.5 |
| 50-60 | 1778 | 33.4 |
| 60-70 | 1223 | 22.9 |
| 70-80 | 269 | 5.0 |
| 80-90 | 32 | 0.6 |
| 90-100 | 1 | 0.0 |
| 100-110 | 1 | 0.0 |
| 110-120 | 0 | 0.0 |
| 120-130 | 0 | 0.0 |
| 130-140 | 0 | 0.0 |
| 140-150 | 0 | 0.0 |
| 150-160 | 0 | 0.0 |
| 160-170 | 0 | 0.0 |
| 170-180 | 0 | 0.0 |



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CLASSIFICATION SCHEMES:

Scheme F Classification Scheme (Non-metric)

Scheme F is an attempt to implement the FWA's visual classification scheme as an axle-based classification scheme. This is one of several interpretations.

| Vehicle Class | Class | Vehicle Type | No. of Axles | Axle spacing in feet | | | | |
|---------------|-------|------------------------------------|--------------|----------------------|-------------|-------------|-------------|-------------|
| | | | | Axle 1 to 2 | Axle 2 to 3 | Axle 3 to 4 | Axle 4 to 5 | Axle 5 to 6 |
| PCL/MCL | 1 | motorcycle | 2 | <6.0 | | | | |
| CAR* | 2 | passenger car | 2 | 6.0 - 10.0 | | | | |
| | | car + 1 axle trailer | 3 | <10.0 | 10.0 - 18.0 | | | |
| LGV** | 3 | car + 2 axle trailer | 4 | <10.0 | | <3.5 | | |
| | | pickup | 2 | 10.0 - 15.0 | | | | |
| | | pickup + 1 axle trailer | 3 | 10.0 - 15.0 | 10.0 - 18.0 | | | |
| | | pickup + 2 axle trailer | 4 | 10.0 - 15.0 | | <3.5 | | |
| | | pickup + 3 axle trailer | 5 | 9.9 - 15.0 | | | <3.5 | |
| BUS | 4 | bus | 2 | >20.0 | | | | |
| | | bus | 3 | >19.0 | | | | |
| OGV 1 | 5 | single unit truck - dual rear axle | 2 | 14.9 - 20.0 | | | <3.5 | |
| | 6 | 3 axle truck | 3 | | <18.0 | | | |
| OGV 2 | 7 | 4 axle truck | 4 | | | | | |
| | 8 | 2S1 | 3 | | >18.0 | | | |
| | | 2S2 | 4 | | >5.0 | >3.5 | | |
| | | 3S1 | 4 | | <5.0 | >10.0 | | |
| | | 3S2 | 5 | | <6.1 | | 3.5 - 8.0 | |
| | 9 | 5 axle combination | 5 | | | | | |
| | | 6 axle combination | 6 | | | 3.5 - 5.0 | | |
| 10 | | 3S3 | 6 | | | | | |
| 11 | | 2S1-2 | 5 | | >6.0 | | | |
| 12 | | 3S1-2 | 6 | | | | | >10.0 |
| 13 | | truck | 7 or more | | | | | |

Car* Cars and LGV based cars
LGV** Light Goods Vehicles with the exception of LGV based on cars

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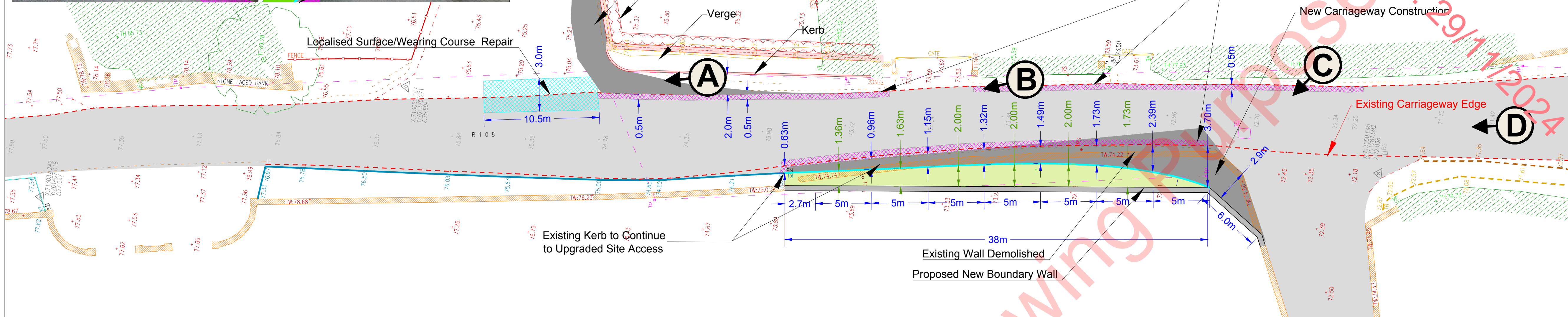
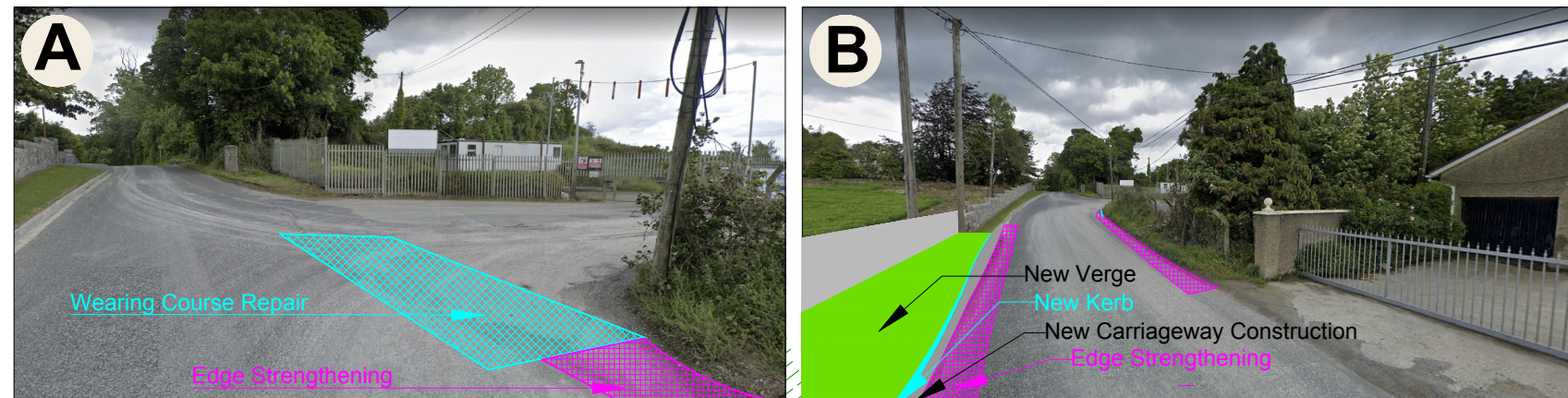
Appendix 14-B Proposed Access and Road Improvements

Trafficwise Drawing No. 03108-PL01B 'Proposed Access and Road Improvements'

Trafficwise Drawing No. 03108-PL02B 'Proposed Access and Road Improvements'

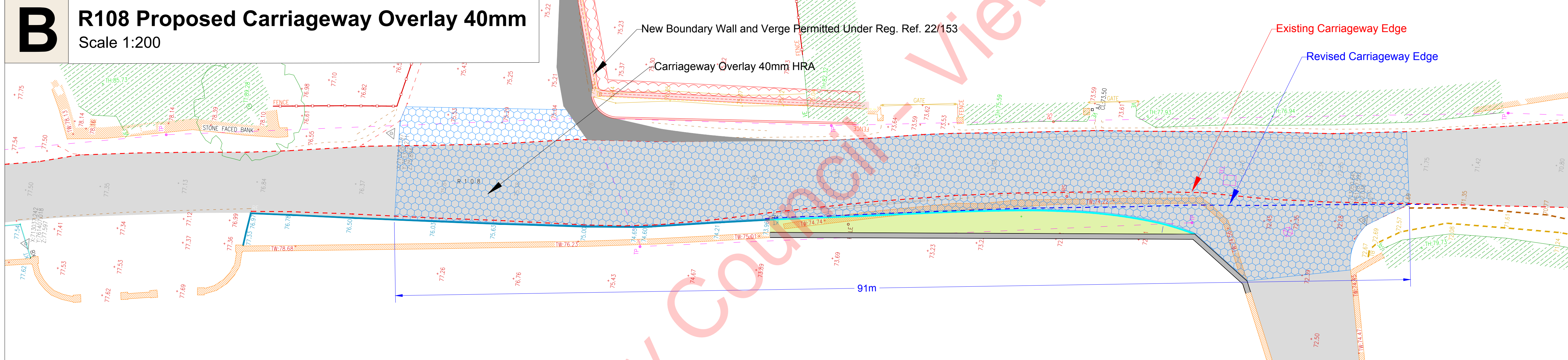
Proposed Access Improvements & R108 Road Strengthening Works

Scale 1:200



B R108 Proposed Carriageway Overlay 40mm

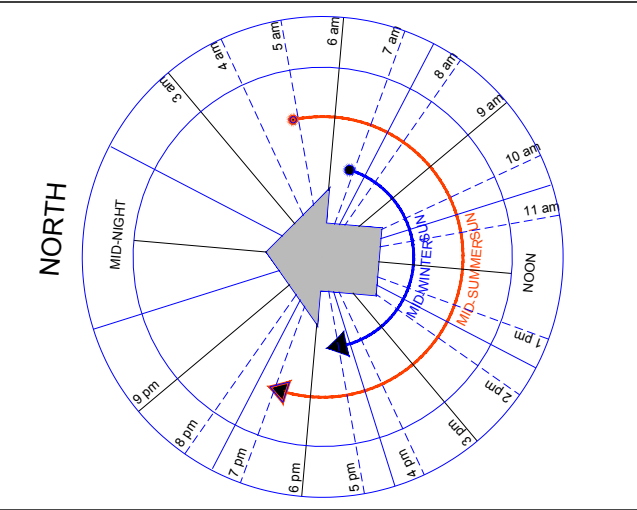
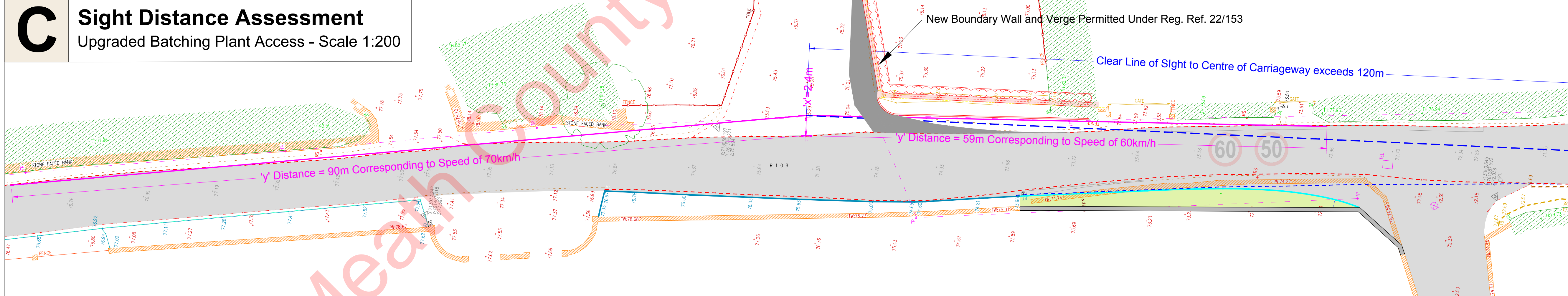
Scale 1:200



C Sight Distance Assessment

Upgraded Batching Plant Access - Scale 1:200

Upgraded Batching Plant Access - Scale 1:200



KEY:

- | | |
|--------------------------------|--|
| Existing Fence | |
| Existing Edge of Road | |
| Existing Road Surface | |
| Proposed New Road Construction | |
| Proposed Edge Strengthening | |
| Proposed Local Surface Repair | |
| Proposed New Verge | |
| Existing Wall | |
| Proposed New Kerb | |
| Proposed New Boundary Wall | |
| Electricity Pole/Cable | |
| Telegraph Pole/Cable | |
| Existing Hedgerow | |
| Existing Bottom of Bank | |
| Existing Top of Bank | |
| Proposed 40mm Overlay HRA | |

TRAFFICWISE
traffic & transportation solutions

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Bracetown Business Park,
D15 R59T

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email: info@trafficwise.ie
website: www.trafficwise.ie

project
Kilsaran Concrete, Naul Townland
Proposed Sand & Gravel Extraction

stage
Planning Submission

title
Proposed Access & Road Improvements

contents

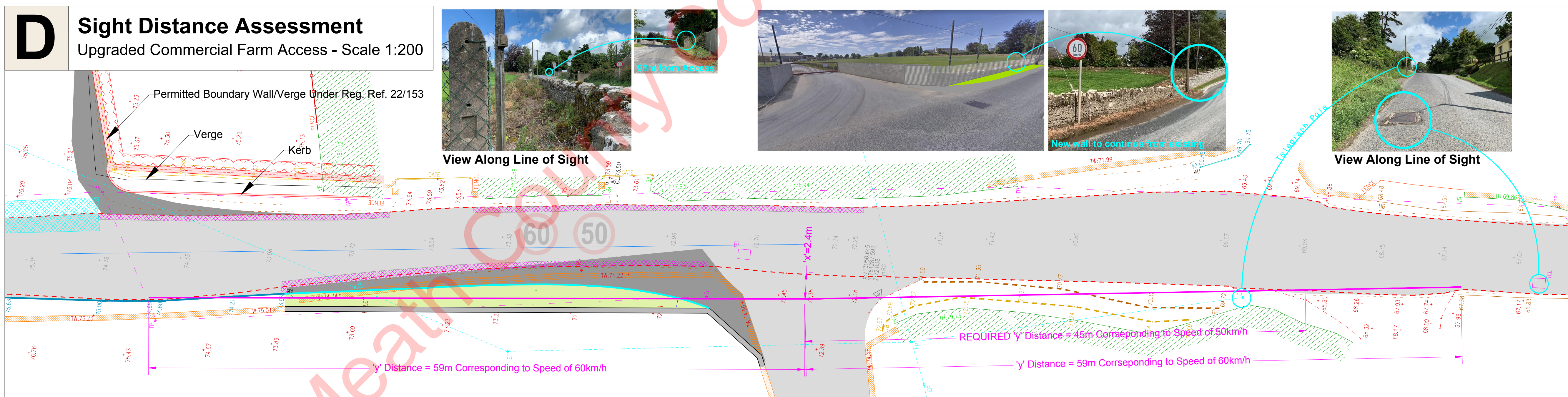
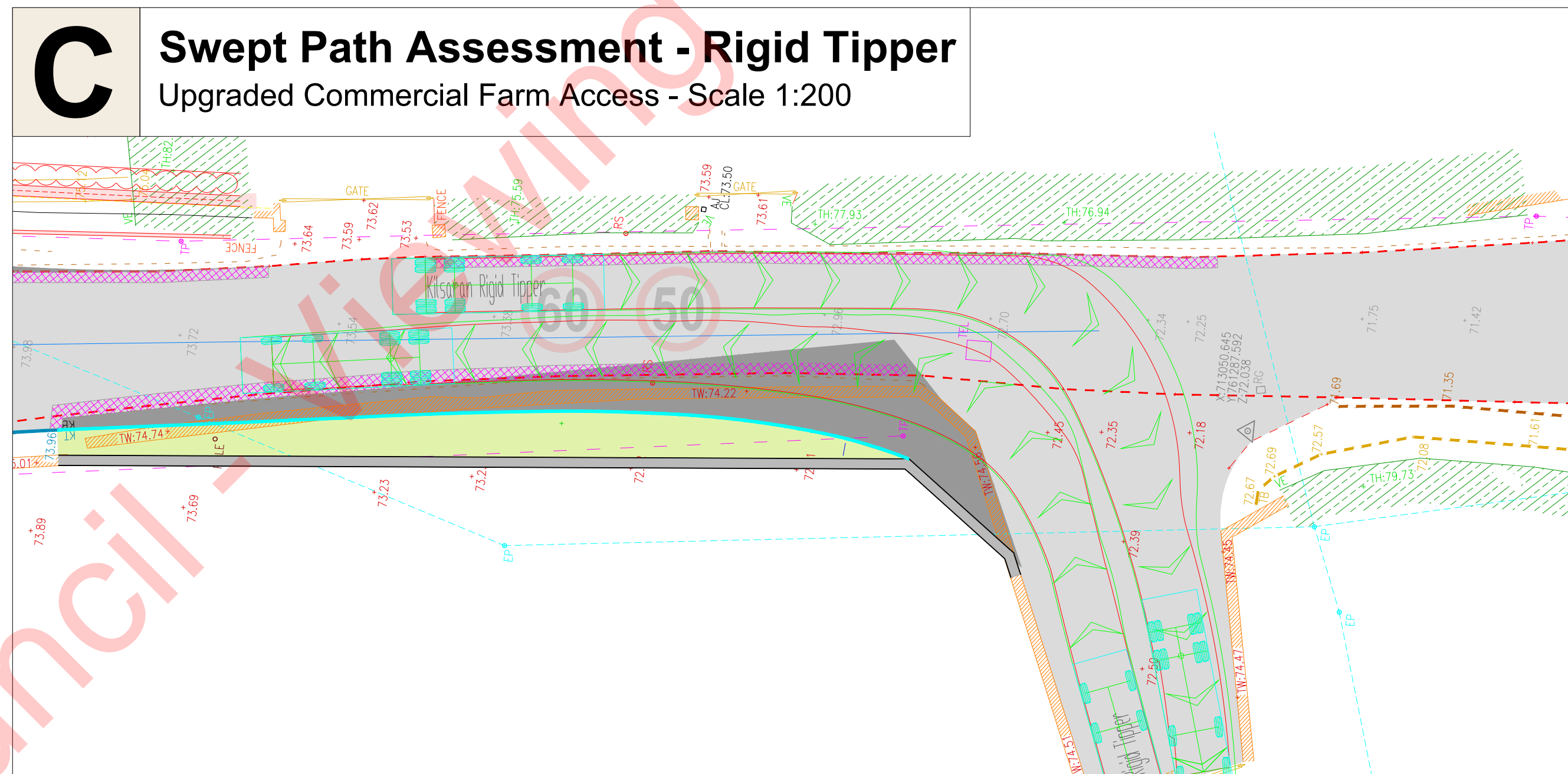
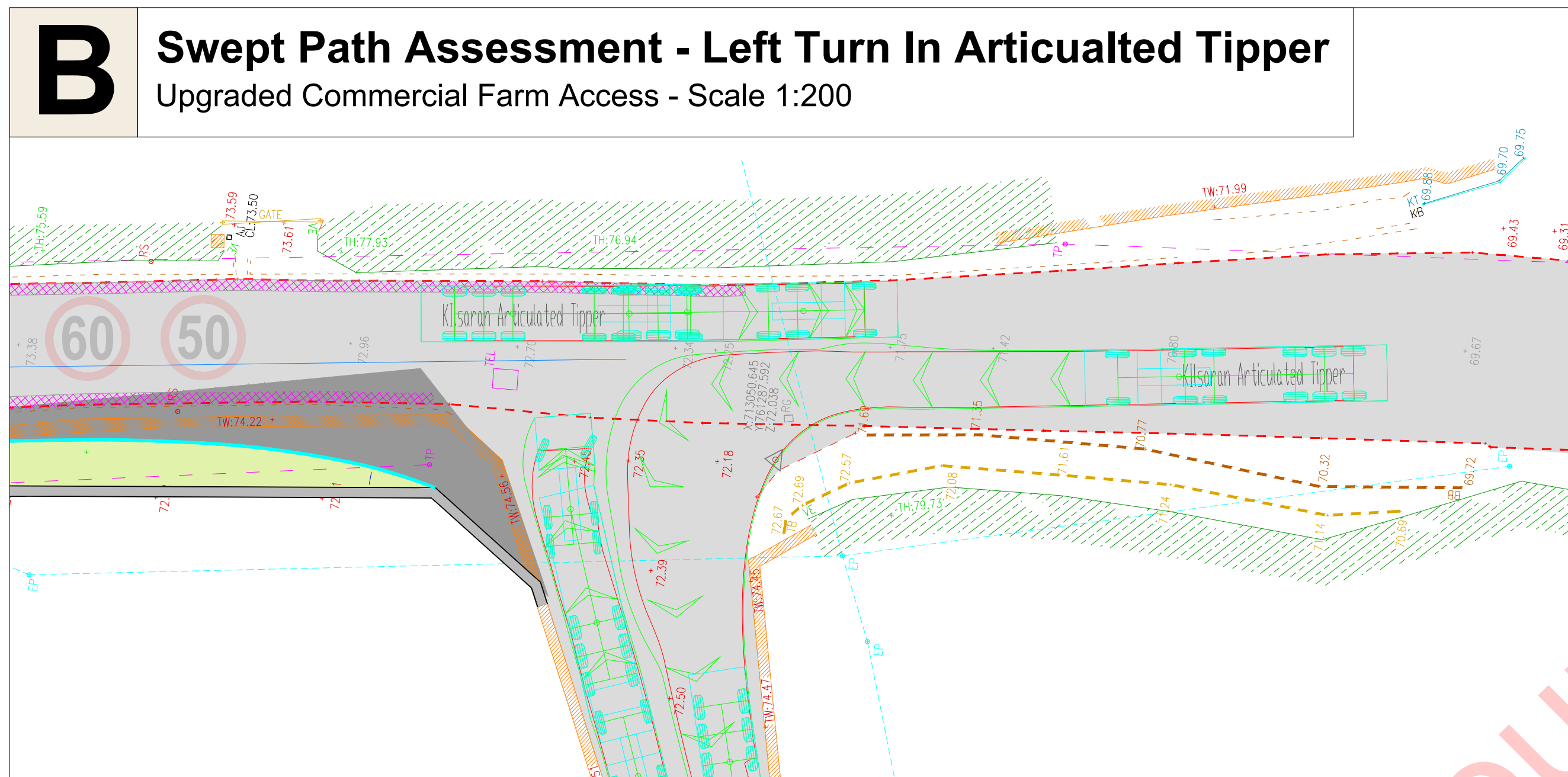
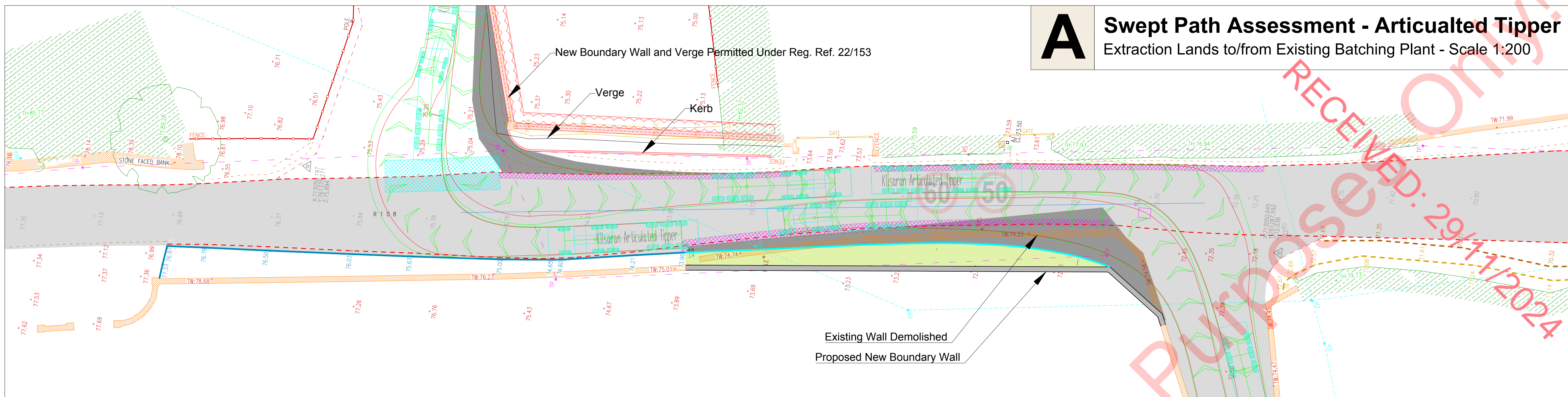
- Proposed Access Improvements
- Proposed Road Widening Works
- Proposed Edge Strengthening Works
- Proposed Overlay & Sightlines

| | | | |
|----------------------------------|--------------|----------------|-------------------|
| surveyed TECHSOL July 2019 | drawn TWL | checked JMK | date June 2024 |
|----------------------------------|--------------|----------------|-------------------|



drawing no. 03108-PL01B

revision



KEY:

- Existing Fence
- Existing Edge of Road
- Existing Road Surface
- Proposed New Road Construction
- Proposed New Verge
- Existing Wall
- Proposed New Boundary Wall
- Electricity Pole/Cable
- Telegraph Pole/Cable
- Existing Hedgerow
- Existing Bottom of Bank
- Existing Top of Bank
- Swept Path Assessment Vehicle
- Swept Path Travel Direction
- Swept Path Wheel Track
- Swept Path Body Envelope

Swept Path Articulated Assessment Vehicle

Kilsaran Articulated Tipper
Overall Length 13.500m
Overall Width 2.500m
Overall Body Height 3.870m
Min Body Ground Clearance 0.505m
Track Width 2.400m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 6.300m

TRAFFICWISE
traffic & transportation solutions

Suite No 5, Gowna Plaza
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D15 R99T

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Email: info@trafficwise.ie
Website: www.trafficwise.ie

project
Kilsaran Concrete, Naul Townland
Proposed Sand & Gravel Extraction

stage
Planning Submission

title
Proposed Access & Road Improvements

contents
Visibility Sightline Assessments
Vehicle Swept Path Assessments

| | | | |
|----------------------------------|--------------|----------------|-------------------|
| surveyed TECHSOL July 2019 | drawn TWL | checked JMK | date June 2024 |
|----------------------------------|--------------|----------------|-------------------|

Kilsaran

| | |
|----------------------------|----------|
| drawing no. 03108-PL02B | revision |
|----------------------------|----------|