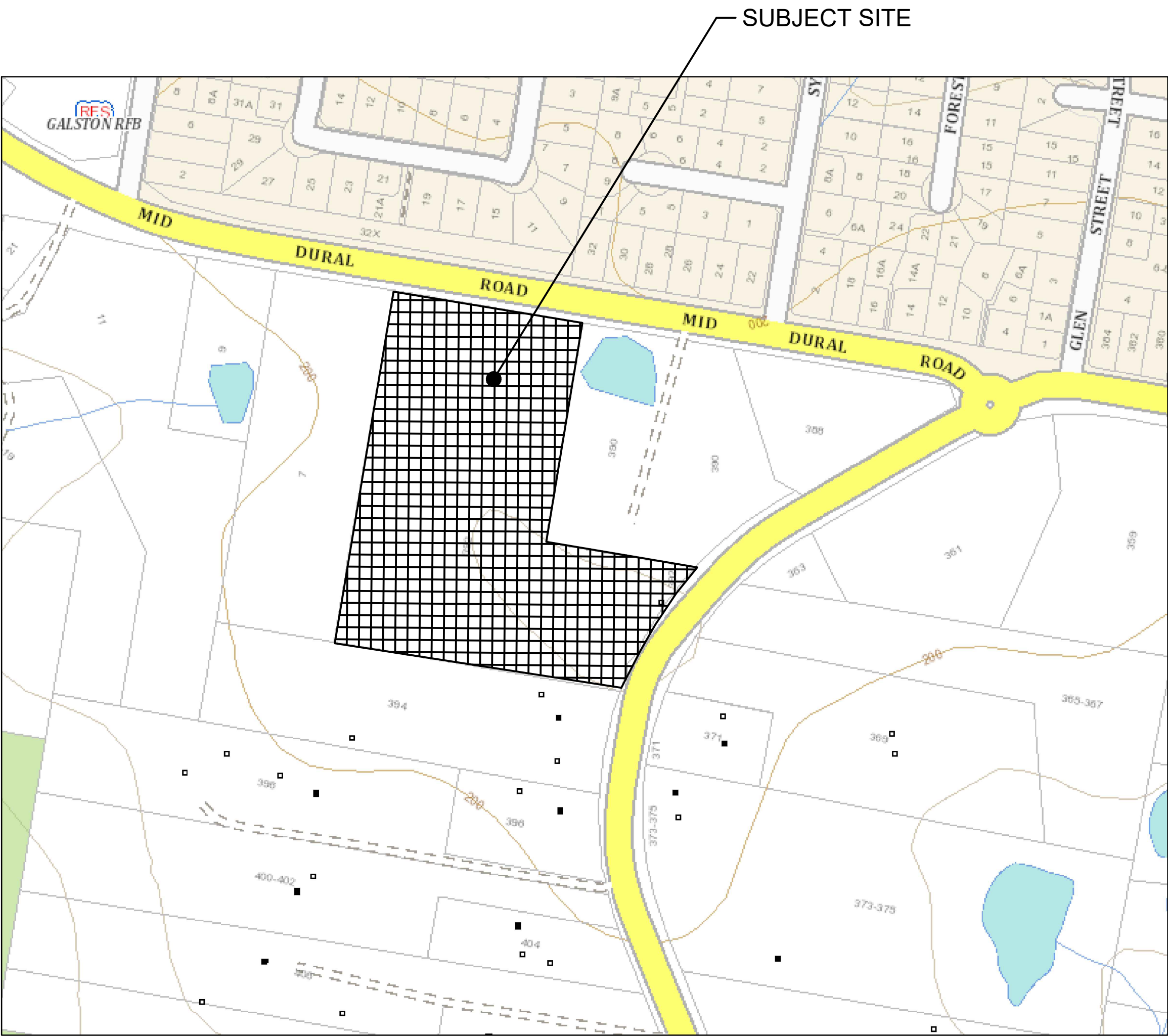


PROPOSED SITE ACCESS ROADS

392 GALSTON ROAD, GALSTON

CIVIL ENGINEERING PLANS

DRAWING INDEX		
SHEET No.	DRAWING No.	DRAWING TITLE
1	5959 RD00_G	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
2	5959 RD01_G	GENERAL NOTES AND LEGEND
3	5959 RD02_G	OVERALL CIVIL WORKS PLAN
4	5959 RD04_G	CIVIL WORKS PLAN - GALSTON ROAD FINAL STAGE
5	5959 RD05_G	CIVIL WORKS PLAN - MID DURAL ROAD
6	5959 RD06_G	GALSTON ROAD FINAL STAGE KERB RETURNS
7	5959 RD07_G	MID DURAL ROAD KERB RETURNS
8	5959 RD08_G	STANDARD DETAILS



LOCALITY PLAN
N.T.S



FOR DA APPROVAL

G	FINAL PLANS	27/03/23	KG	AD/SW
F	TRNSW COMMENTS ADOPTED	22/02/23	KG	AD/SW
E	TRNSW COMMENTS ADOPTED	15/06/22	KG	AD/SW
D	DA RFI RECEIVED 4.01.2022	18/01/22	SW	SW
Issue	Description	Date	Drawn	Approved



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24 THOMAS STREET,
CHATSWOOD NSW 2067

Project:
INTERSECTION DESIGN
392 GALSTON ROAD
GALSTON

Designed: AS	Scale: N.T.S.	A1
Drawn: AS	Datum: A.H.D	
Checked: SW	Date: JANUARY 2022	
L.G.A: HORNSBY SHIRE COUNCIL		

Drawing Title:
COVER SHEET, LOCALITY PLAN & DRAWING
INDEX

Issue: G
Dwg. No. 5959_RD00_G
Our Ref: 5959
Sheet No. 1 / 8

CONSTRUCTION NOTES

GENERAL:

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S STANDARD SPECIFICATIONS AND TO THE REQUIREMENTS OF COUNCIL'S ENGINEER.
- COUNCIL'S TREE PRESERVATION ORDER IS TO BE STRICTLY ADHERED TO AND NO TREES SHALL BE FELLED, LOPPED OR REMOVED WITHOUT PRIOR APPROVAL.
- A SUBDIVIDER OR CONTRACTOR CARRYING OUT CONSTRUCTIONAL WORKS ON A SUBDIVISION SHALL RESTRICT SUCH ACTIVITIES TO WITHIN THE HOURS OF 7.00am TO 5.00pm ON MONDAYS TO SATURDAYS. NO WORK SHALL BE UNDERTAKEN OUTSIDE THE HOURS SPECIFIED ABOVE OR ON SUNDAYS WITHOUT THE WRITTEN APPROVAL OF COUNCIL.
- VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION WORKS.
- ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED AS SHOWN ON PLANS. HERITAGE ITEMS TO BE PROTECTED AND RETAINED AS REQUIRED.
- STRUCTURAL CERTIFICATION REQUIRED FOR MAJOR AND NON STANDARD STRUCTURES.
- DIMENSIONS SHOULD NOT BE SCALED FROM THE PLANS.
- EXISTING SURVEY MARKS SHOULD BE MAINTAINED AT ALL TIMES.
- SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED PRIOR TO ANY WORKS COMMENCING AND IN KEEPING WITH LATEST EDITION OF LANDCOM'S 'SOILS AND CONSTRUCTION - MANAGING URBAN STORMWATER' DOCUMENT.
- ERECT STREET SIGNS AND CONDUIT WARNING SIGNS WHERE SHOWN OR WHERE DIRECTED BY COUNCIL'S REPRESENTATIVE.
- FELLED TREES SHALL BE SALVAGED FOR REUSE AS WOODCHIP MULCH OR LOG FORM FOR SITE REHABILITATION, NON-SALVAGEABLE MATERIAL SUCH AS STUMPS AND ROOTS SHALL BE DISPOSED OF OFF SITE.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS' NOTICE TO COUNCIL'S REPRESENTATIVE FOR ALL INSPECTIONS.
- THE CONTRACTOR SHALL UNDERTAKE TRAFFIC CONTROL MEASURES TO COUNCIL'S SATISFACTION AND SHALL DISPLAY ALL APPROPRIATE WARNING SIGNS THROUGHOUT THE DURATION OF CONSTRUCTION.

SERVICES:

- PUBLIC UTILITY SERVICES ARE TO ADJUSTED AS NECESSARY AND AT NO COST TO COUNCIL.
- CONDUITS TO BE LAID AS DIRECTED BY THE RELEVANT AUTHORITY, CLEAR OF VEHICULAR CROSSINGS.
- SERVICES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM INFORMATION SUPPLIED BY THE RELEVANT AUTHORITIES AND FIELD INVESTIGATIONS AND ARE NOT GUARANTEED COMPLETE OR CORRECT. A FULL SERVICES SEARCH MUST BE UNDERTAKEN PRIOR TO ANY GROUND DISTURBANCE OR CONSTRUCTION.
- PUBLIC UTILITY STUB-MAINS TO BE INSTALLED PRIOR TO THE PREPARATION OF SUB-GRADE.
- POSITION OF CONDUITS SHALL BE MARKED ON THE KERB.

EARTHWORKS:

- EARTHWORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S ENGINEER. UNSOUND MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING.
- PROVIDE 150mm TOPSOIL WITH TURF OR GRASS SEEDING ON ALL FOOTPATHS AND DISTURBED AREAS.
- ALL SITE FILLING SHALL BE PLACED IN LAYERS NOT EXCEEDING 300mm AND COMPACTED IN ACCORDANCE WITH COUNCIL'S SPECIFICATIONS AND BE TESTED AT THE REQUIRED INTERVALS BY AN APPROVED N.A.T.A. LABORATORY.
- WHERE LOT FILLING OF IN EXCESS OF 300mm IS PROPOSED, LEVELS ARE TO BE TAKEN ON THE STRIPPED SURFACE PRIOR TO THE COMMENCEMENT OF FILLING AND ON THE FINISHED SURFACE. ALL LEVELS TO BE SHOWN ON THE WORK-AS-EXECUTED PLAN.
- SUB-GRADE IN ROCK TO BE RIPPED, SCARIFIED, SPREAD AND COMPACTED TO A MINIMUM DEPTH OF 300mm BELOW THE FINISHED SUB-GRADE LEVEL.
- NO TOPSOIL TO BE REMOVED FROM THE SUBDIVISION.
- WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS ONE IN FOUR (1:4) FILL EMBANKMENT, BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE FILL MATERIAL OR AS REQUIRED BY COUNCIL'S ENGINEER.
- DETAILS OF THE SOIL AND PAVEMENT TESTING ARE TO BE SUBMITTED TO COUNCIL PRIOR TO INSPECTION OF SUBGRADE.

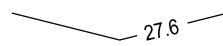
STORMWATER:

- PRE-CAST KERB INLETS TO BE USED ON GULLY PITS. GRATES SHALL BE 'WELDOCK' TYPE GG 78-51 OR APPROVED EQUIVALENT.
- PROVIDE AGRICULTURAL DRAINS WITH FLUSHING POINTS AND STANDARD COVERS AT MAX. 60m INTERVALS AND ELSEWHERE AS DIRECTED BY COUNCIL'S ENGINEER. MARK FACE OF KERB ADJACENT TO COVERS 'SS'.
- ALL PIPELINES ARE TO BE LAID IN TRENCH CONDITIONS (TYPE B BEDDING).
- ALL LONGITUDINAL PIPELINES IN ROADS TO BE LOCATED UNDER KERB AND GUTTER TO BE BACKFILLED WITH WASHED RIVER SAND.
- ALL PITS TO BE BENCHED AND STREAMLINED. PROVIDE STEP IRONS FOR ALL PITS OVER 1.2m DEEP.
- CATCH DRAINS TO BE CONSTRUCTED AS REQUIRED BY COUNCIL'S ENGINEER.
- SUITABLE EASEMENTS TO DRAIN WATER TO BE PROVIDED OVER DRAINAGE LINES THROUGH ALLOTMENTS.
- CONSTRUCT TAIL OUT DRAINS FROM KERB AND GUTTER. WRITTEN PERMISSION TO DISCHARGE WATER NEEDS TO BE OBTAINED FROM ADJOINING PROPERTY OWNERS AND SUBMITTED TO COUNCIL PRIOR TO COMMENCEMENT OF WORKS.
- PROVIDE INDEMNITY FOR GUTTER DISCHARGE ONTO ADJOINING PROPERTY WHERE NECESSARY.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS ON ADJOINING PROPERTIES, WRITTEN PERMISSION IS TO BE OBTAINED FROM THE RELEVANT OWNERS AND SUBMITTED TO COUNCIL.
- ADEQUATE PROVISION TO BE MADE FOR SCOURING AND SEDIMENTATION TO ALL DRAINAGE WORKS AS DIRECTED.
- LINTEL LENGTHS SHOWN SHOWN INDICATES LENGTH OF CLEAR OPENING.
- CONDUIT TRENCHES, SUBSOIL DRAINS AND STORMWATER DRAINAGE LINES TO BE BACKFILLED WITH APPROVED WASHED RIVER SAND, FLOODED AND VIBRATED. CONDUIT TRENCH TO BE GRADED AT MINIMUM OF ONE PERCENT (1%) GRADE TO EITHER SUBSOIL OR STORMWATER DRAINAGE LINES.
- 100 YEAR FLOW PATHS TO BE FORMED AT THE TIME OF CONSTRUCTION.

ROADWORKS:

- SEPARATE VEHICULAR CROSSING TO BE PROVIDED WHERE SHOWN THUS: 
- MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
- GUIDE POSTS WITH ATTACHED REFLECTORS TO BE PLACED WHERE DIRECTED.
- PROVISION TO BE MADE FOR SUITABLE PROTECTION OF ROAD PAVEMENT, KERB AND GUTTER, AND FOOTPATH FORMATION.
- WHERE KERB AND GUTTER IS LAID BY THE USE OF A KERB AND GUTTER MACHINE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TAKING AND TESTING OF CORE SAMPLES. FORWARDING TEST RESULTS TO COUNCIL AND REMOVAL OF KERB AND GUTTER, ALL AT CONTRACTOR'S EXPENSE.
- CONSTRUCTION OF DRIVEWAYS ACROSS FOOTPATHS TO BE DEFERRED UNTIL ALL SERVICES ARE LAID.
- DRIVEWAYS / LAYBACKS TO HAVE MINIMUM 1.0m CLEARANCE FROM POWER AND LIGHT POLES AND STORMWATER DRAINS, AND 6.0m CLEARANCE FROM KERB RETURN TANGENT POINTS.
- VEHICLE CROSSINGS ARE TO BE MINIMUM 4.0m WIDE AT THE KERB AND GUTTER.
- FINAL PAVEMENT THICKNESS AND TESTING REQUIREMENTS TO BE IN ACCORDANCE WITH COUNCIL'S SPECIFICATIONS.

CIVIL LEGEND

- 
- FINISHED SURFACE CONTOUR
- 
- NATURAL SURFACE CONTOUR
- 
- ELECTRICITY
- 
- NBN LINE
- 
- OPTUS LINE
- 
- SYDNEY WATER

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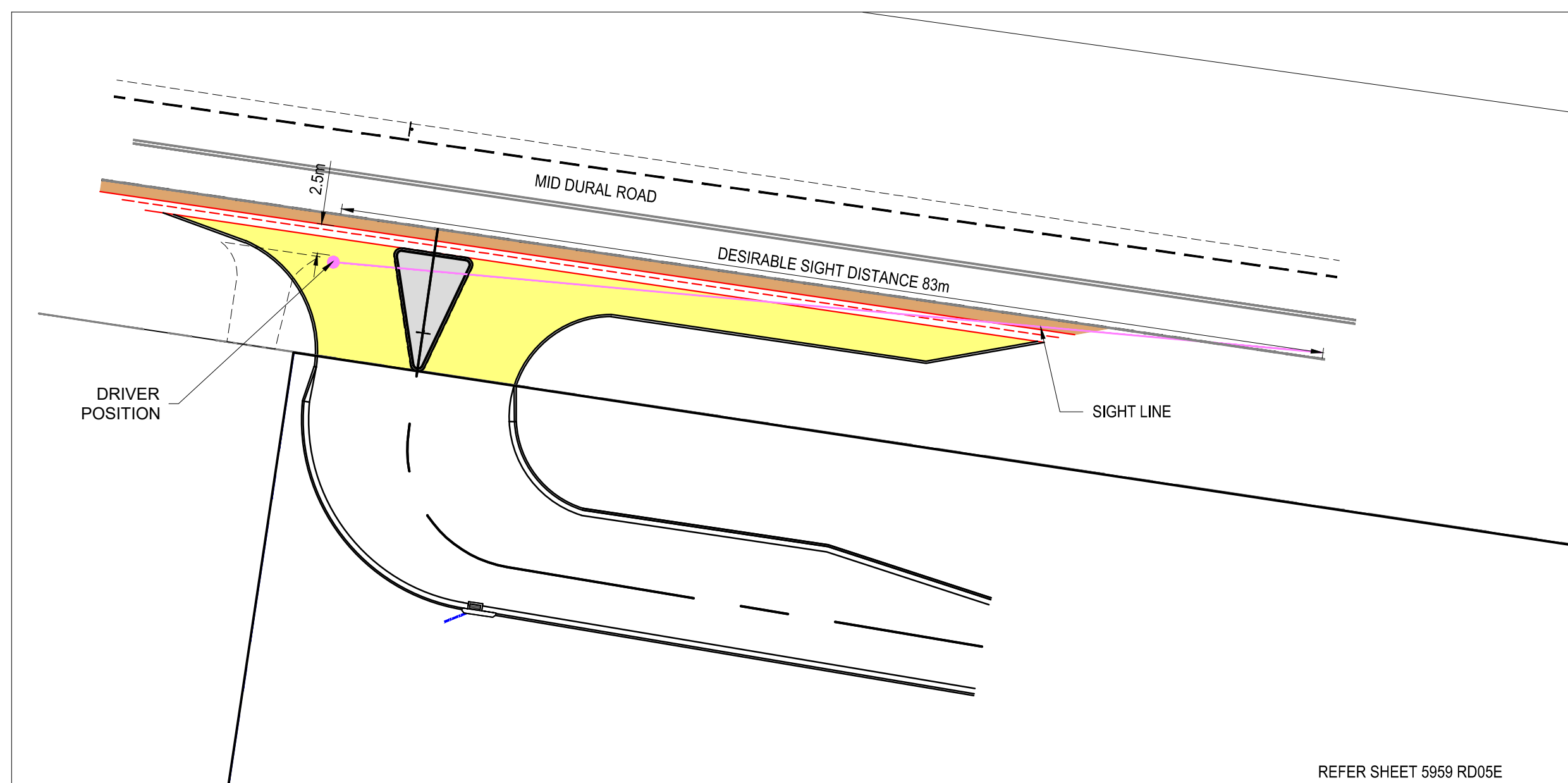
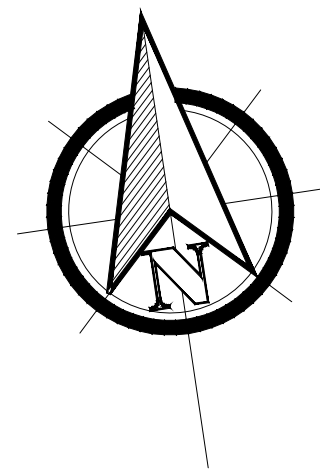
Client:
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SUITE 201A,
24 THOMAS STREET
CHATSWOOD NSW 2067

Project:
INTERSECTION DESIGN
392 GALSTON ROAD
GALSTON

Designed: AS	Scale: N.T.S.	A1
Drawn: AS	Datum: A.H.D	
Checked: SW	Date: JANUARY 2022	
L.G.A:	HORNSBY SHIRE COUNCIL	

Drawing Title:
GENERAL NOTES AND LEGEND

Issue: G	
Drg. No. 5959_RD01_G	
Our Ref: 5959	Sheet No. 2 / 8



MID DURAL ROAD INTERSECTION

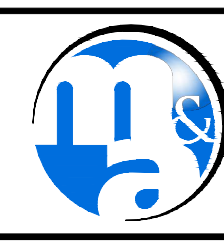
OVERALL CIVIL WORKS PLAN

SIGHT DISTANCE NOTES:
• IN ACCORDANCE WITH FIGURE 3.2 OF AS 2890



FOR DA APPROVAL

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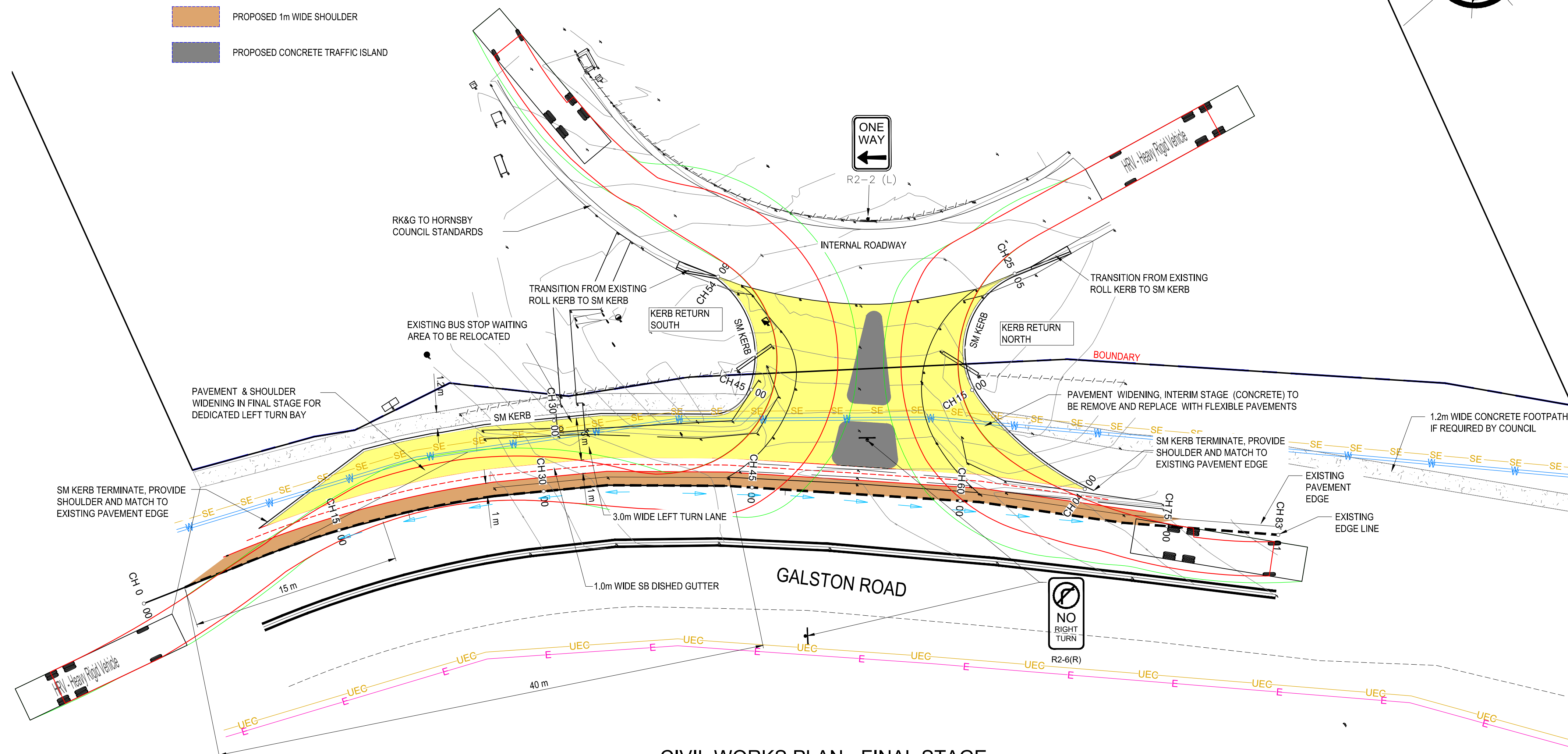
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Checked:	SW	Date:	JANUARY 2022	
L.G.A:	HORNSBY SHIRE COUNCIL			

Drawing Title:
GENERAL LAYOUT PLAN

Issue:	G
Dwg. No.	5959_RD02_G
Our Ref:	5959
Sheet No.	3 / 8

LEGEND

- PROPOSED FLEXIBLE PAVEMENT
- PROPOSED 1m WIDE SHOULDER
- PROPOSED CONCRETE TRAFFIC ISLAND



CIVIL WORKS PLAN - FINAL STAGE

SCALE: 1:200

RL207.2m					
CUT-FILL	0.00	0.13	-0.01	-0.04	-0.03
DESIGN SURFACE	209.09	209.089	209.221	209.071	209.038
EXISTING SURFACE	209.09	209.09	209.09	209.08	209.07
OFFSET	-4.36	-3.83	-3.62	-2.00	-1.00

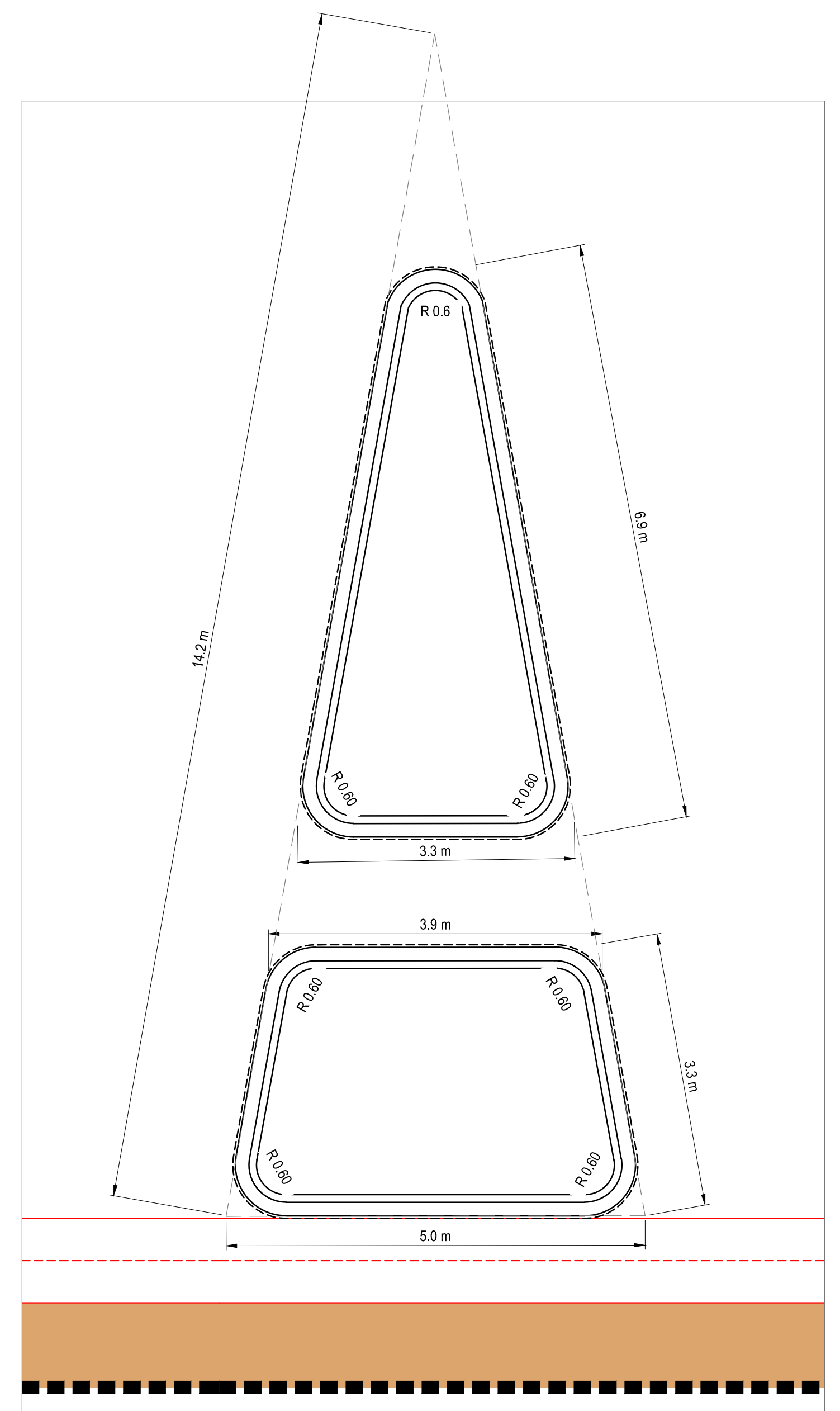
Ch 15.00 m
GALSTON ROAD- LEFT TURN LANE CROSS SECTION
SCALE: HORIZONTAL 1:100 VERTICAL 1:100

RL207.9m					
CUT-FILL	0.00	-0.20	-0.18	-0.32	-0.12
DESIGN SURFACE	210.22	210.217	210.18	210.14	210.13
EXISTING SURFACE	210.22	210.18	210.14	210.13	210.08
OFFSET	-7.34	-6.41	-5.21	-5.00	-2.00

Ch 30.00 m
GALSTON ROAD- LEFT TURN LANE CROSS SECTION
SCALE: HORIZONTAL 1:100 VERTICAL 1:100

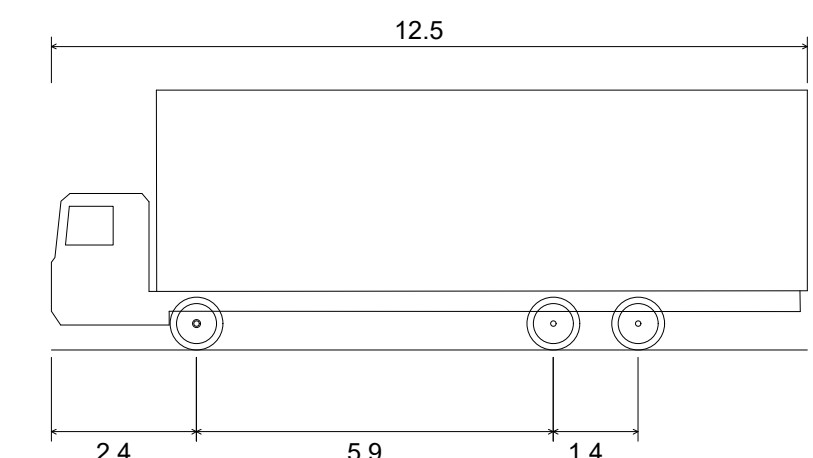
NOTES:

- ALL UTILITIES UNDER THE PROPOSED TURNING LANES SHOULD BE RELOCATED AT FULL COST AND RESPONSIBILITY OF THE DEVELOPER
- THE DEVELOPER IS RESPONSIBLE FOR ANY PROPERTY ACQUISITION, IF REQUIRED
- OWNER'S CONSENT SHOULD BE PROVIDED FOR ANY IMPACTED DRIVEWAYS FOR ADJOINING PROPERTIES



TRAFFIC ISLAND DETAIL

SCALE: 1:50



HRV - Heavy Rigid Vehicle

Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m

SCALE 1:100 @ A1
SCALE 1:200 @ A3
SCALE 1:200 @ A1
SCALE 1:400 @ A3

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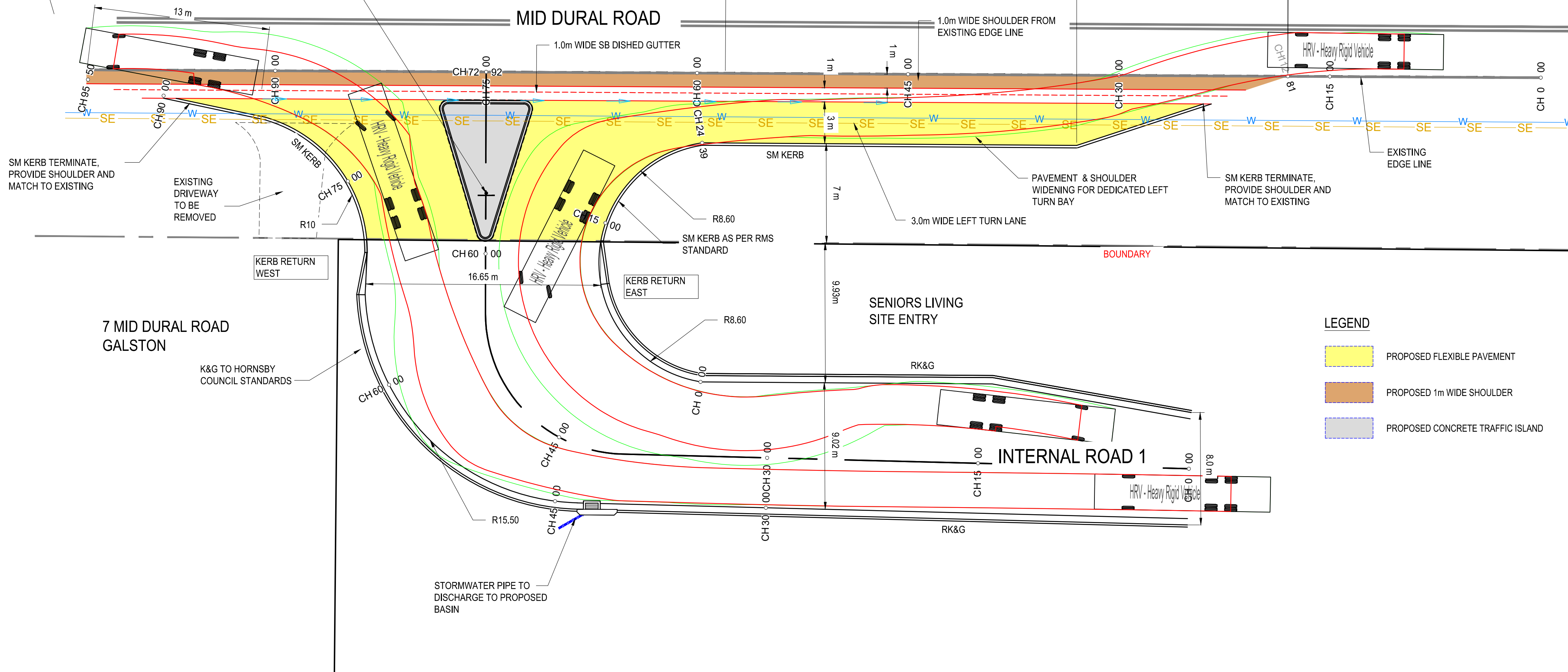
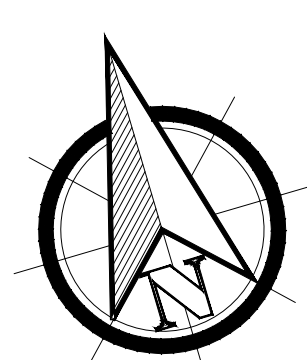
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A1
Drawn: AS
Datum: A.H.D.
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Date: JANUARY 2022
L.G.A.: HORNSBY SHIRE COUNCIL

Drawing Title:
CIVIL WORKS PLAN - GALSTON ROAD
FINAL STAGE

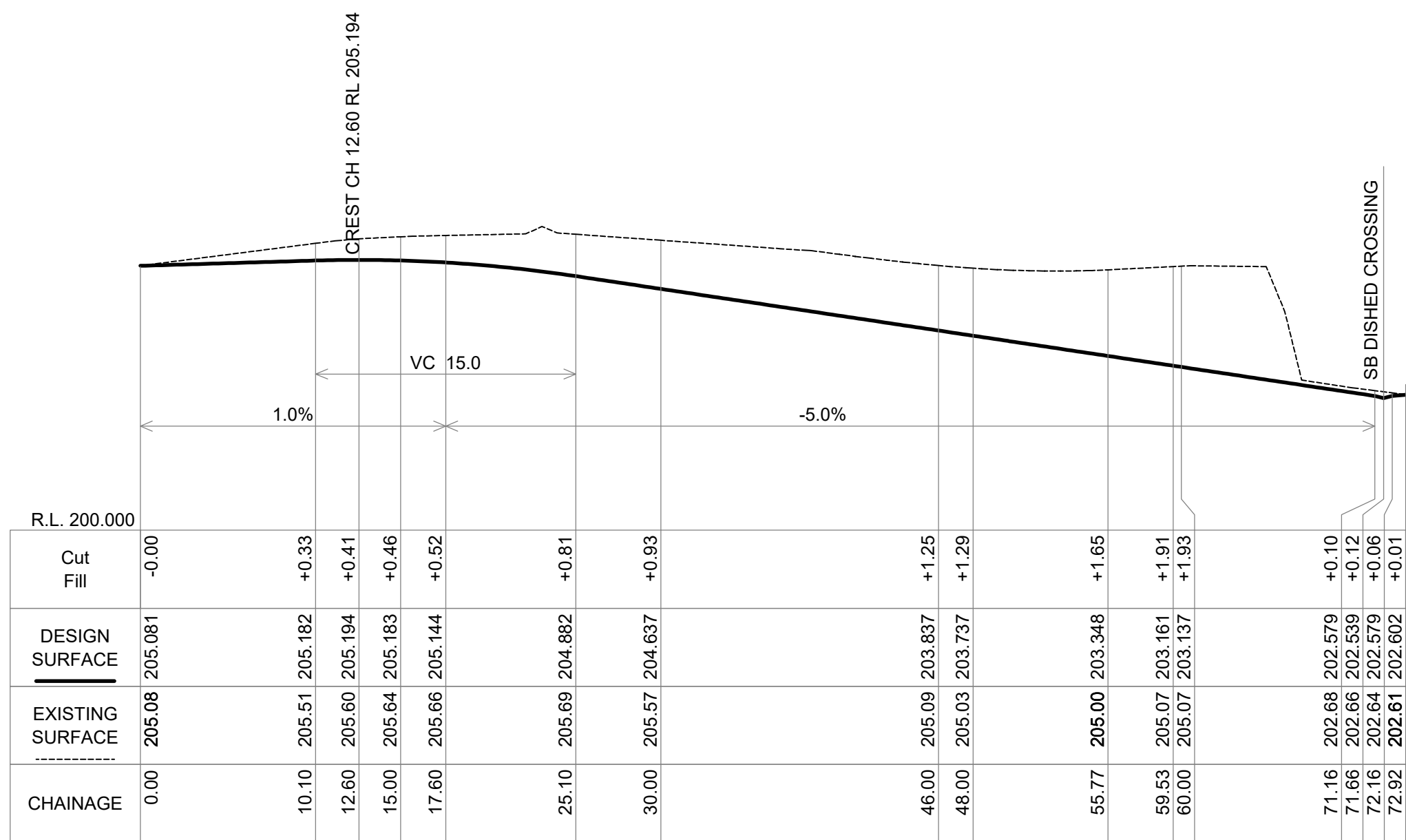
Issue: G
Dwg. No. 5959_RD04_G
Our Ref: 5959
Sheet No. 4 / 8



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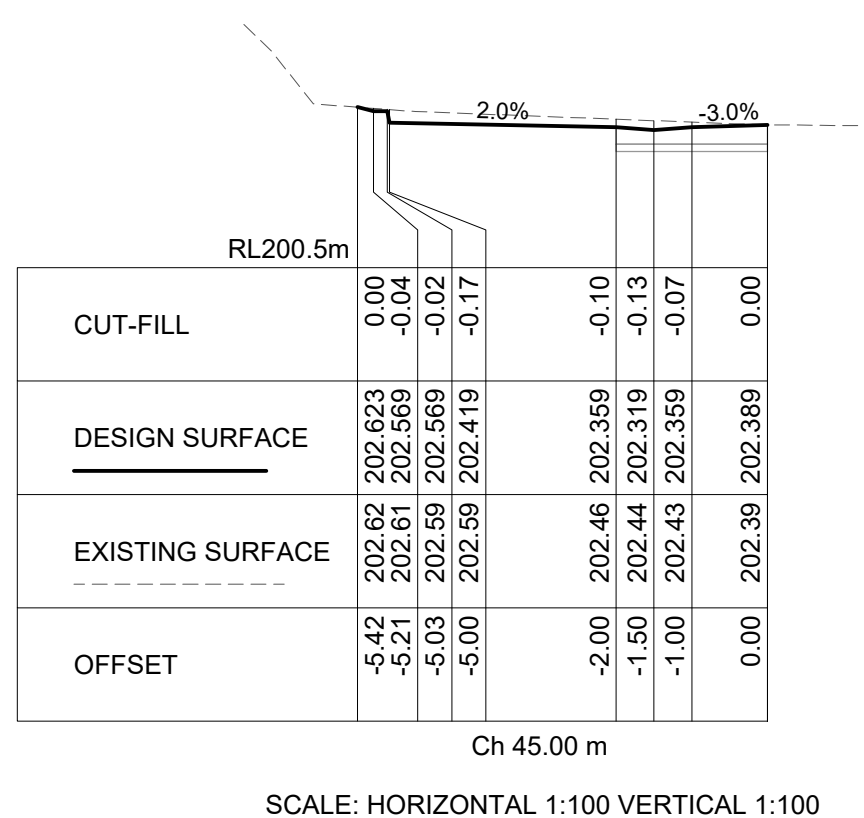
CIVIL WORKS PLAN - FINAL STAGE
SCALE: 1:200



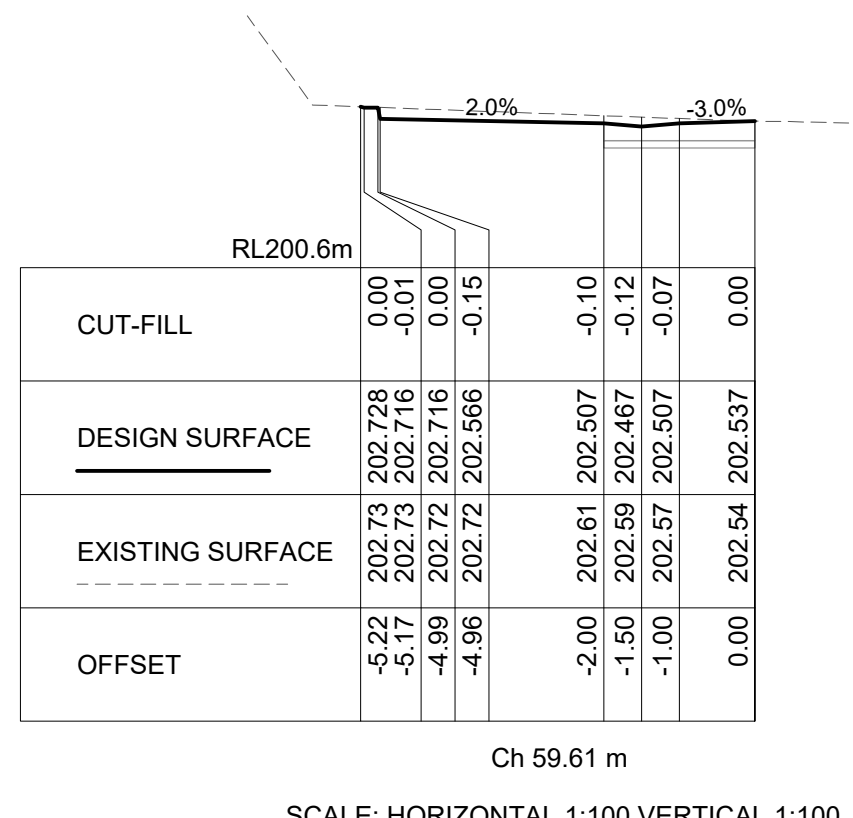
LONGITUDINAL SECTION
INTERNAL ROAD 1 - CH 0+00 to CH 72+92
SCALE: HORIZONTAL 1:300 VERTICAL 1:100

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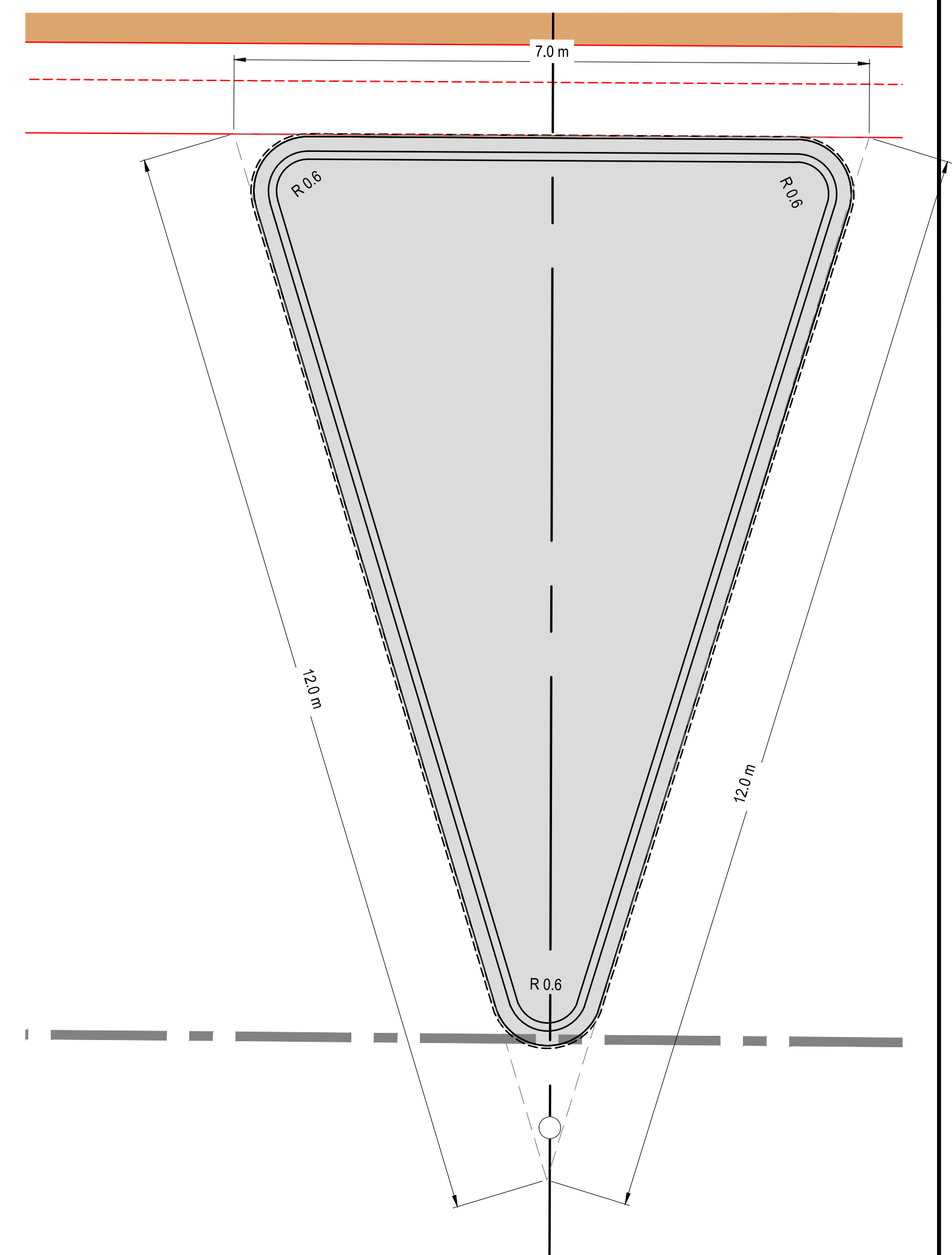
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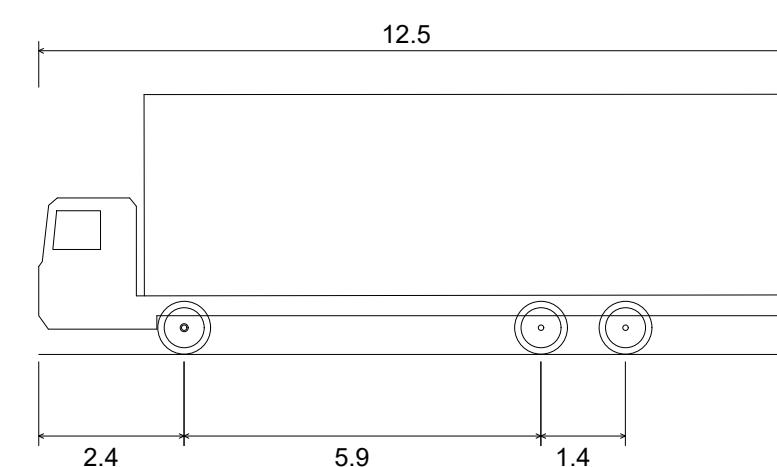
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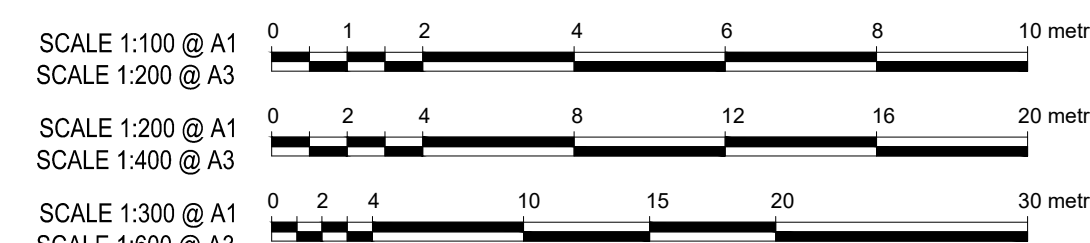
SCALE: HORIZONTAL 1:100 VERTICAL 1:100



TRAFFIC ISLAND DETAIL
SCALE: 1:50



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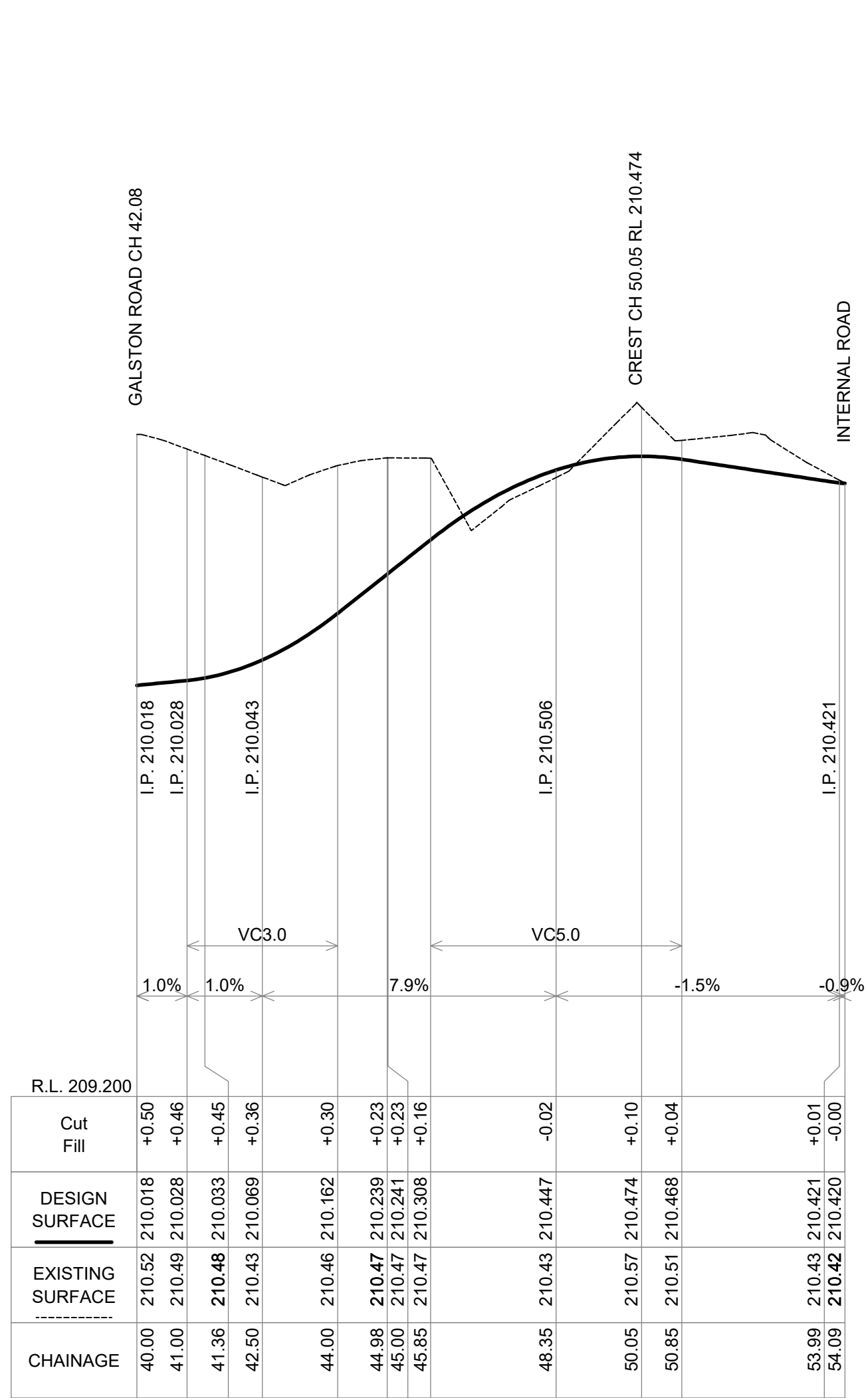
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Project:
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392 GALSTON ROAD
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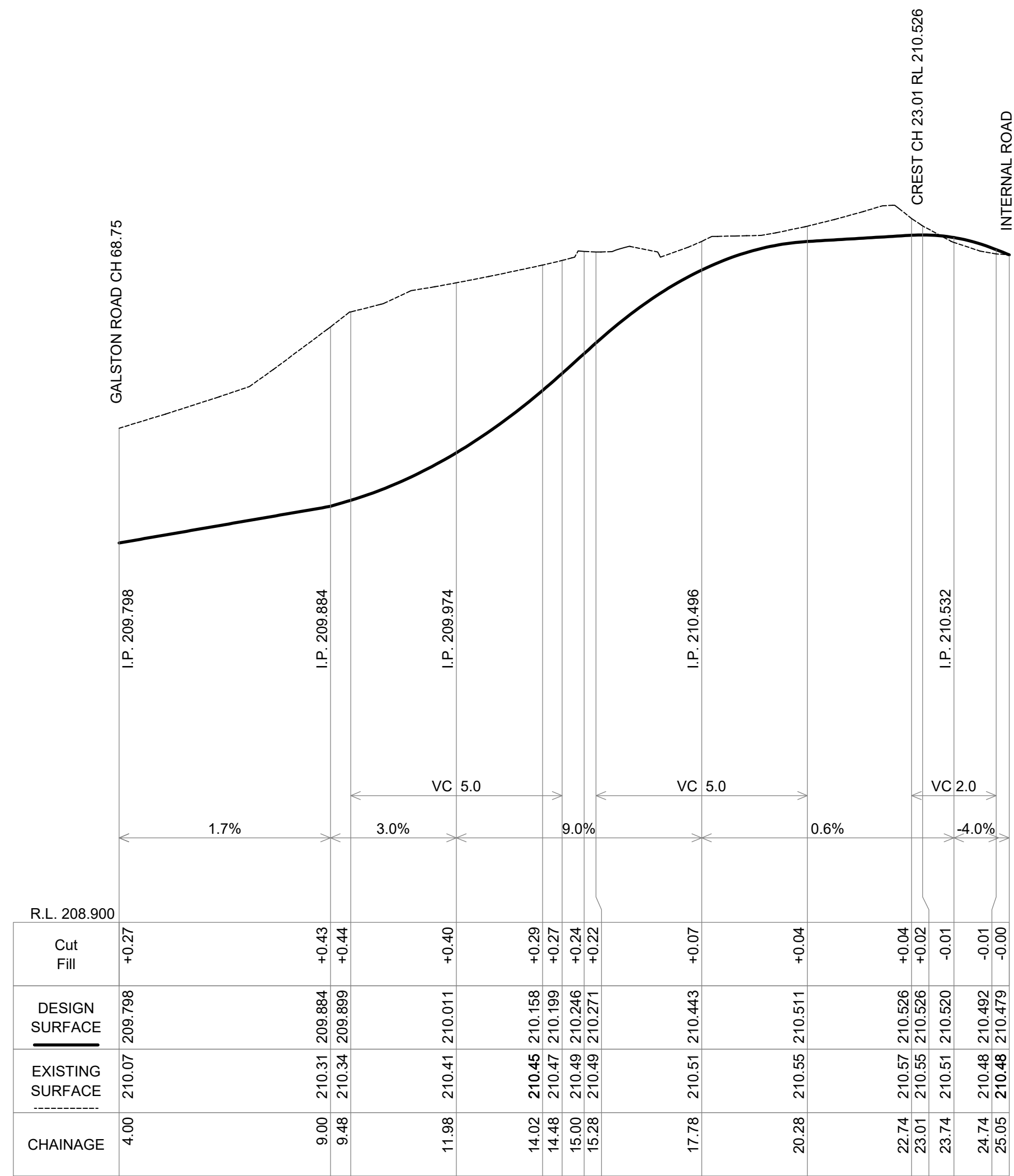
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Checked: SW
L.G.A.: HORNSBY SHIRE COUNCIL
Scale: AS SHOWN
Datum: A.H.D.
Date: JANUARY 2022

Drawing Title:
CIVIL WORKS PLAN - MID DURAL ROAD

Issue: G
Dwg. No. 5959_RD05_G
Our Ref: 5959
Sheet No. 5 / 8



GALSTON ROAD
KERB RETURN SOUTH - CH 40.00 to CH 54.09
SCALE: HORIZONTAL 1:100 VERTICAL 1:10



GALSTON ROAD
KERB RETURN NORTH - CH 4.000 to CH 25.054
SCALE: HORIZONTAL 1:100 VERTICAL 1:10

SCALE 1:10 @ A1
SCALE 1:20 @ A3
SCALE 1:100 @ A1
SCALE 1:200 @ A3



FOR DA APPROVAL

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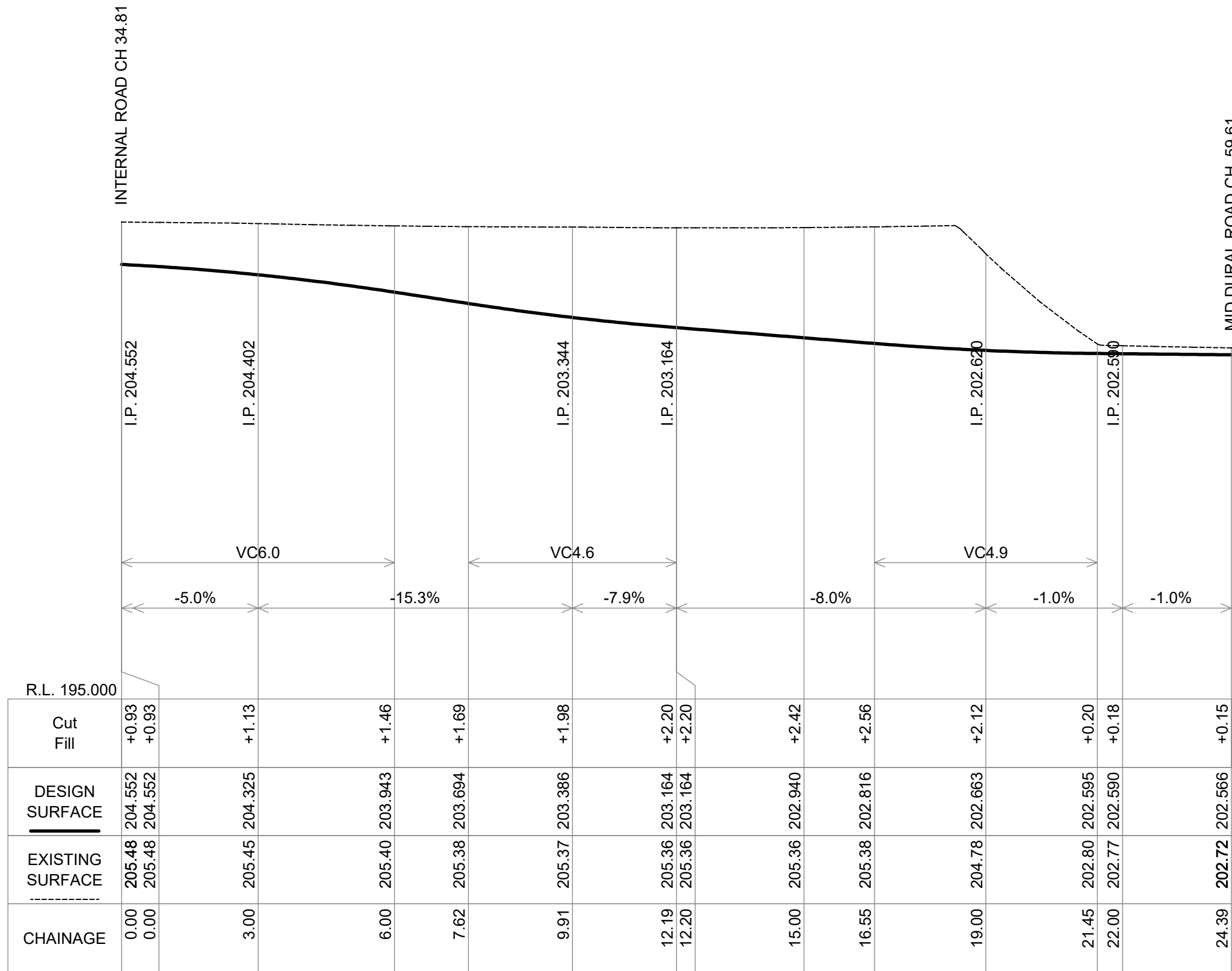
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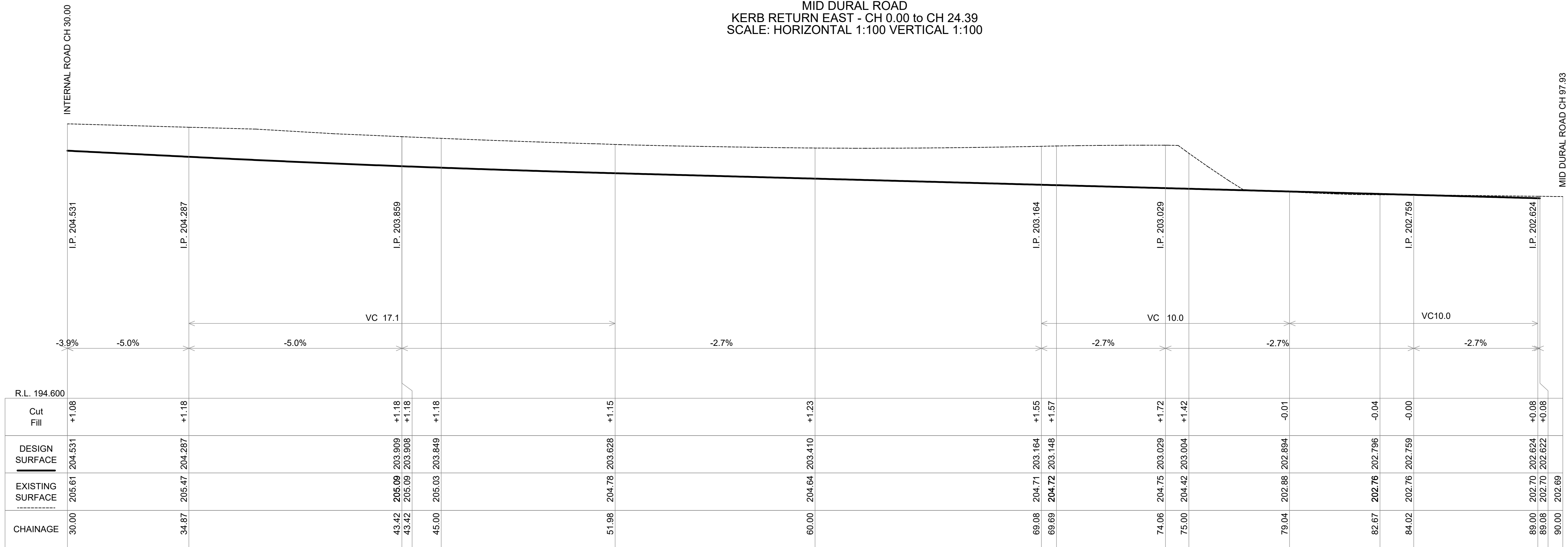
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Drawn: AS	Datum: A.H.D	
Checked: SW	Date: JANUARY 2022	
L.G.A:	HORNSBY SHIRE COUNCIL	

Drawing Title:
GALSTON ROAD FINAL STAGE
KERB RETURNS

Issue: G
Dwg. No. 5959_RD06_G
Our Ref: 5959
Sheet No. 6 / 8



MID DURAL ROAD
KERB RETURN EAST - CH 0.00 to CH 24.39
SCALE: HORIZONTAL 1:100 VERTICAL 1:100



MID DURAL ROAD
KERB RETURN WEST - CH 30.000 to CH 95.496
SCALE: HORIZONTAL 1:100 VERTICAL 1:100

SCALE 1:100 @ A1
SCALE 1:200 @ A3

0 1 2 4 6 8 10 metres



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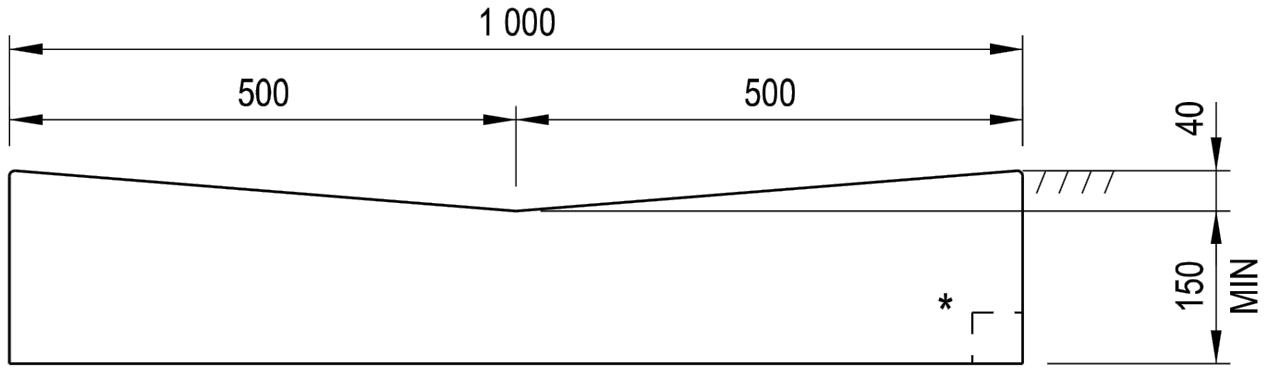
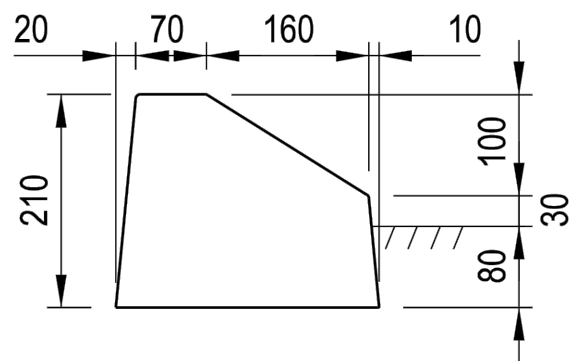
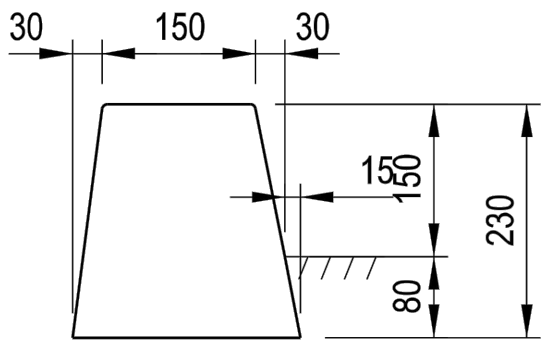
Client:
VIGOR MASTER PTY LTD
SUITE 201A
24 THOMAS STREET
CHATSWOOD NSW 2067

Project:
INTERSECTION DESIGN
382 GALSTON ROAD
GALSTON

Designed:	AS	Scale:	AS SHOWN	A1
Drawn:	AS	Datum:	A.H.D	
Checked:	SW	Date:	JANUARY 2022	
L.G.A:	HORNSBY SHIRE COUNCIL			

Drawing Title:
MID DURAL ROAD KERB RETURNS

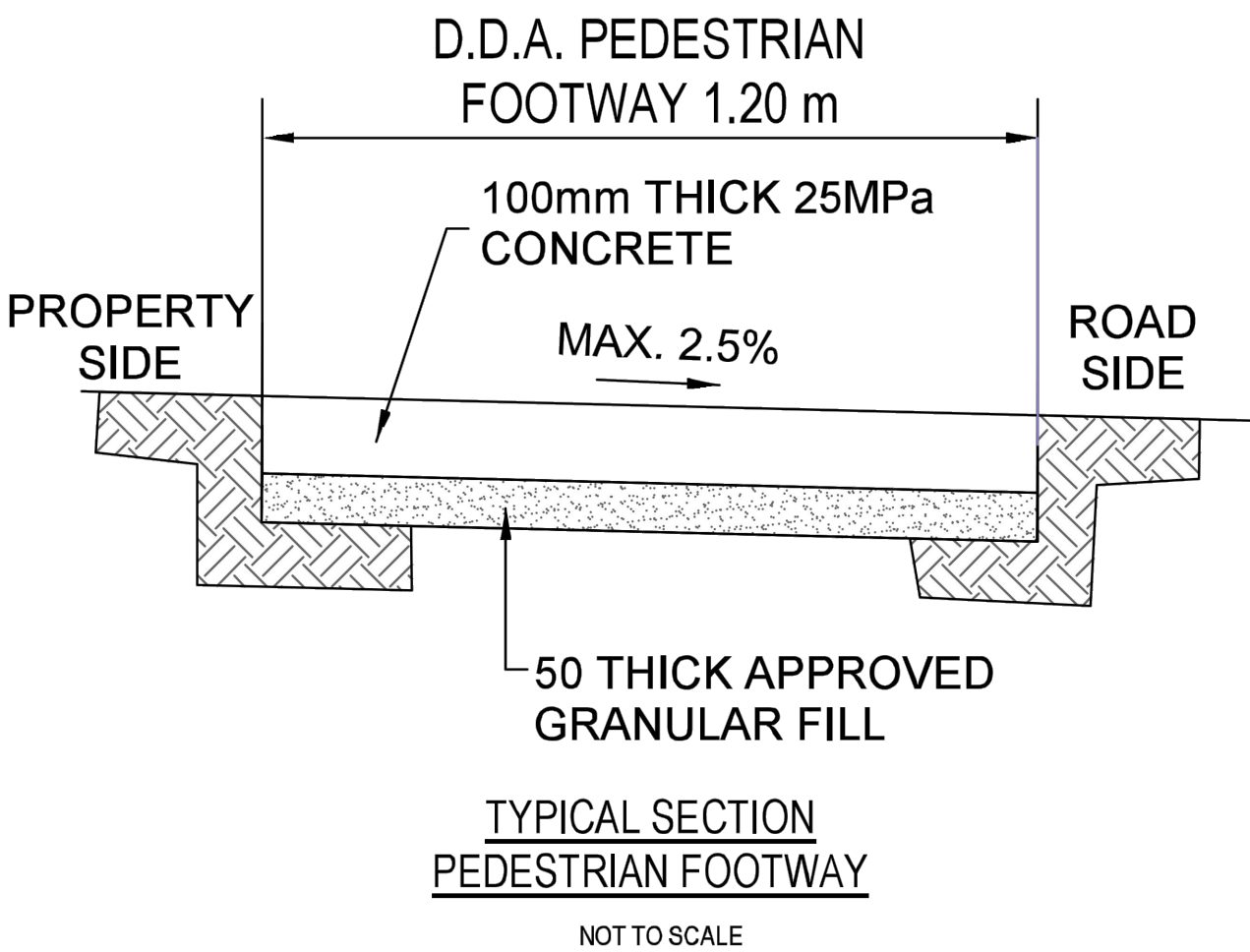
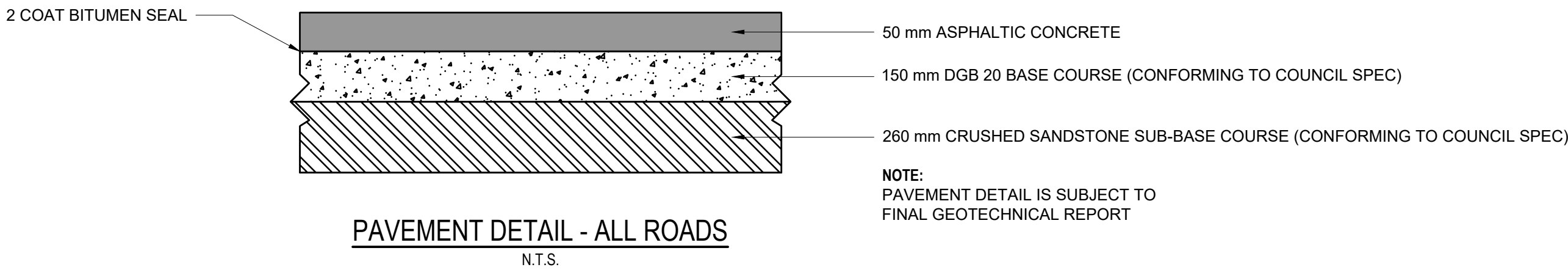
Issue:	G
Dwg. No.	5959_RD07_G
Our Ref:	5959
Sheet No.	7 / 8

TYPE	TYPICAL USE	VOLUME m ³ / m	PROFILE AND DIMENSIONS
SB	DISHED CROSSING	VARIABLE MINIMUM 0.170	
SF	RAISED MEDIANS AND TRAFFIC ISLANDS	0.043	
SM	BARRIER KERB AT TRAFFIC ISLANDS	0.043	

NOTES

- ALL EXPOSED EDGES, EXCEPT TYPE F BARRIER, TO BE ROUNDED TO 5 mm RADIUS MAXIMUM.
 - EDGES OF TYPE F BARRIER TO BE ROUNDED TO 25mm RADIUS.
 - FOR KERB CONSTRUCTED ON CONCRETE PAVEMENT, REFER TO ROADS AND MARITIME SERVICES RIGID PAVEMENT STANDARD DRAWINGS.
- * RECESS AT BASE OF KERB MAY BE REQUIRED FOR SUBBASE LAYER.

RMS STANDARD KERB AND GUTTER SHAPES - R0300-01



FOR DA APPROVAL

G	FINAL PLANS	27/03/23	KG	AD/SW
F	TRANS COMMENTS ADOPTED	22/02/23	KG	AD/SW
E	TRANS COMMENTS ADOPTED	15/06/22	KG	AD/SW
D	DA RFI RECEIVED 4.01.2022	18/01/22	SW	SW
Issue	Description	Date	Drawn	Approved



mepstead
& ASSOCIATES
REGISTERED SURVEYORS AND
DEVELOPMENT CONSULTANTS

Sydney
94 Central Avenue, Thornleigh N.S.W. 2120
Phone 02 9875 4500

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PO BOX 22, Thornleigh N.S.W. 2120
Internet
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Client:
VIGOR MASTER PTY LTD
SUITE 201A,
24 THOMAS STREET
CHATSWOOD NSW 2067

Project:
INTERSECTION DESIGN
382 GALSTON ROAD
GALSTON

Designed:	AS	Scale:	N.T.S.	A1
Drawn:	AS	Datum:	A.H.D	
Checked:	SW	Date:	JANUARY 2022	
L.G.A:	HORNSBY SHIRE COUNCIL			

Drawing Title:
STANDARD DETAILS

Issue: G	
Dwg. No. 5959_RD08_G	
Our Ref: 5959	Sheet No. 8 / 8