

# HARLOW ESTATE STAGE 1

## GENERAL NOTES:

### SURVEY

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) 2020, ZONE 55.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.

### EARTHWORKS

- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
- FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
- AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150mm DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.

- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.

- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUGGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION.

- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL'S PERMISSION.

### SERVICES

- GAS AND WATER CONDUITS ARE TO BE:
  - Ø50mm CLASS 12 P.V.C. - SINGLE SERVICE
  - Ø100mm CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)

WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:  
 ROAD PAVEMENT - 0.80m  
 VERGE, FOOTPATHS - 0.45m

- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.

- TELSTRA ARE TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.

### STORM WATER DRAINAGE

- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- ALL STORMWATER DRAINS ARE TO BE CLASS 2 R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.).
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- WHERE CURVED PIPES ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY

- NOMINATED CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

### PAVEMENT

- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.

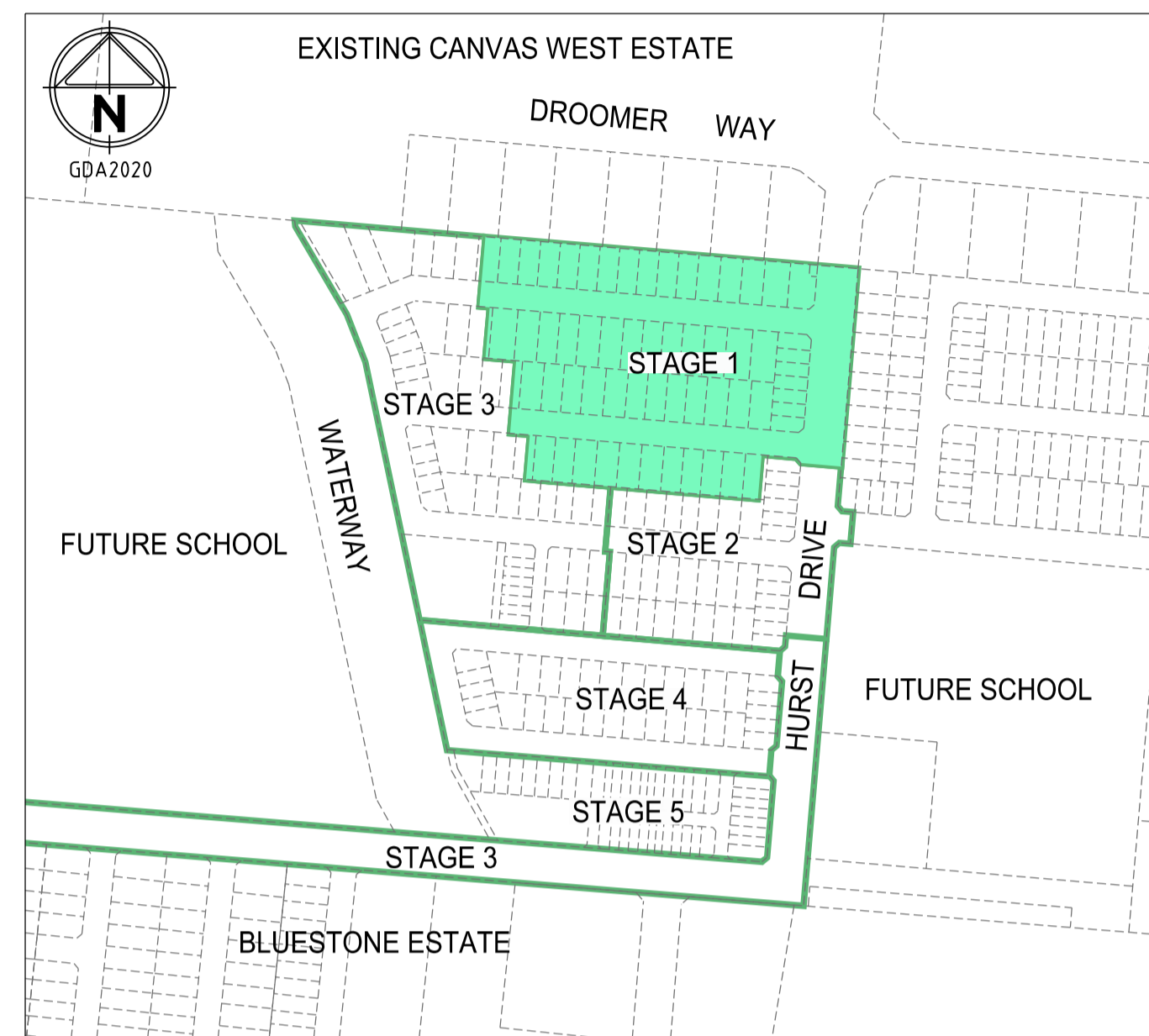
- WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.

### SIGNAGE AND LINEMARKING

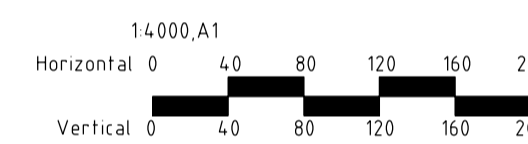
- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
- TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.

### ENVIRONMENTAL

- CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
- TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.



### LOCALITY PLAN



### DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
309437R01	FACE SHEET	1	6
309437R02	ROAD & DRAINAGE FACE PLAN	2	1
309437R03	LONGITUDINAL SECTION - HURST DRIVE & LUCANIA CRESCENT	3	0
309437R04	LONGITUDINAL SECTION - FENDY STREET	4	0
309437R05	CROSS SECTIONS - HURST DRIVE	5	0
309437R06	CROSS SECTIONS - LUCANIA CRESCENT	6	0
309437R07	CROSS SECTIONS - FENDY STREET	7	0
309437R08	INTERSECTION DETAILS	8	0
309437R09	DRAINAGE LONG SECTION SHEET 1 OF 4	9	0
309437R10	DRAINAGE LONG SECTION SHEET 2 OF 4	10	2
309437R11	DRAINAGE LONG SECTION SHEET 3 OF 4	11	0
309437R12	DRAINAGE LONG SECTION SHEET 4 OF 4 & PIT SCHEDULE	12	0
309437R13	PAVEMENT PLAN AND TYPICAL DETAILS	13	0
309437R14	SIGNAGE & LINEMARKING PLAN	14	0
309437R15	RAISED PAVEMENT DETAILS	15	0
309437R16	OUTFALL DRAIN DETAIL PLAN	16	3

### SERVICES OFFSETS AND LOCATION TABLE

Location	GAS	WATER		ELECTRICITY		TELECOM
		NDW	DW	CABLES	POLE	
HURST DRIVE	2.10 W	2.95 W	3.55 W	2.60 E	0.90 BOK	1.80 E
LUCANIA CRESCENT	2.10 N	2.50 N	3.00 N	2.30 S	0.90 BOK	1.85 S
FENDY STREET	2.10 N	2.50 N	3.00 N	2.30 S	0.90 BOK	1.85 S

## LEGEND

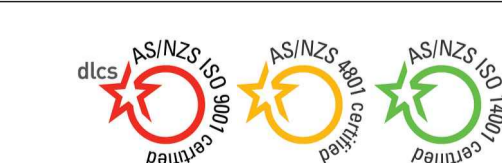
### DESCRIPTION

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	NDW
WATER RECYCLED	NDW	NDW
UNDERGROUND ELECTRICITY	E	E
OVERHEAD ELECTRICITY & POLE	OE	OE
TELECOMMUNICATIONS & SERVICE PIT	T	T
OPTIC FIBRE	OF	OF
OVERHEAD TELECOMMUNICATIONS	OT	OT
GAS MAIN	G	G
BRANCH SEWER & MAINTENANCE STRUCTURE	S	S
SEWER & MAINTENANCE STRUCTURE	S	S
SEWER RISING MAIN	S	S
CENTRAL INVERT	S	S
COUNCIL STORMWATER DRAIN AND PIT	S	S
STORM WATER DRAINAGE PROPERTY INLETS	S	S
COUNCIL STORM WATER PITS	S	S
HOUSE DRAIN	S	S
AG DRAIN AND FLUSHER	S	S
MWC STORM WATER DRAIN & PIT	S	S
MWC STORM WATER PITS	S	S
STORM WATER DRAINAGE PIT NUMBER	S	S
GAS & WATER CONDUITS	S	S
CONCRETE VEHICLE CROSSING	S	S
PAVEMENT SAWCUT LINE	S	S
RIDGE / CHANGE OF GRADE LINE	S	S
SURFACE CONTOUR MINOR	S	S
SURFACE CONTOUR MAJOR	S	S
SURFACE LEVEL	S	S
BATTER LEVEL (TOP / TOE)	S	S
RETAINING WALL LEVEL (TOP/BOTTOM)	S	S
EARTHWORKS GRADE	S	S
SIGN AND POST	S	S
LIGHT & POLE (BY OTHERS)	S	S
STREET SIGN	S	S
PERMANENT SURVEY MARK	S	S
TEMPORARY BENCH MARK	S	S
BOLLARD	S	S
ROAD CHAINAGES	S	S
LOT CHAINAGES	S	S
SETOUT POINT	S	S
LIMIT OF WORKS	S	S
BATTER	S	S
EXCAVATION GREATER THAN 0.20m	S	S
FILLING GREATER THAN 0.20m	S	S
ROCK BEACHING	S	S
RETAINING WALL	S	S
FENCE - TREE PROTECTION	S	S
FENCE - VEHICLE EXCLUSION	S	S
FENCES	S	S
GUARD RAIL	S	S
OVERLAND FLOW PATH	S	S
TREE (8 SURVEYED CANOPY) TO BE RETAINED	S	S
TREE TO BE PROTECTED	S	S
TREE TO BE REMOVED	S	S
VEGETATION LINE	S	S
FOOTPATH	S	S
TACTILE GROUND SURFACE INDICATOR	S	S
KERB TRANSITION	S	S



**WARNING**  
 BEWARE OF UNDERGROUND/OVERHEAD SERVICES  
 THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

Rev	Amendments	Approved	Date
6	SHEET INDEX UPDATED - R01 & R02	M.R	31/05/23
5	SHEET INDEX UPDATED - R01 & R16	M.R	23/03/23
4	SHEET INDEX UPDATED - R01, R16 & R17	M.R	08/03/23
3	SHEET INDEX UPDATED - R01, R16 & R17	M.R	11/11/22
2	SHEET INDEX UPDATED - R01&R10	M.R	13/10/22
1	SHEET INDEX UPDATED - R01&R10	M.R	08/09/22
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22



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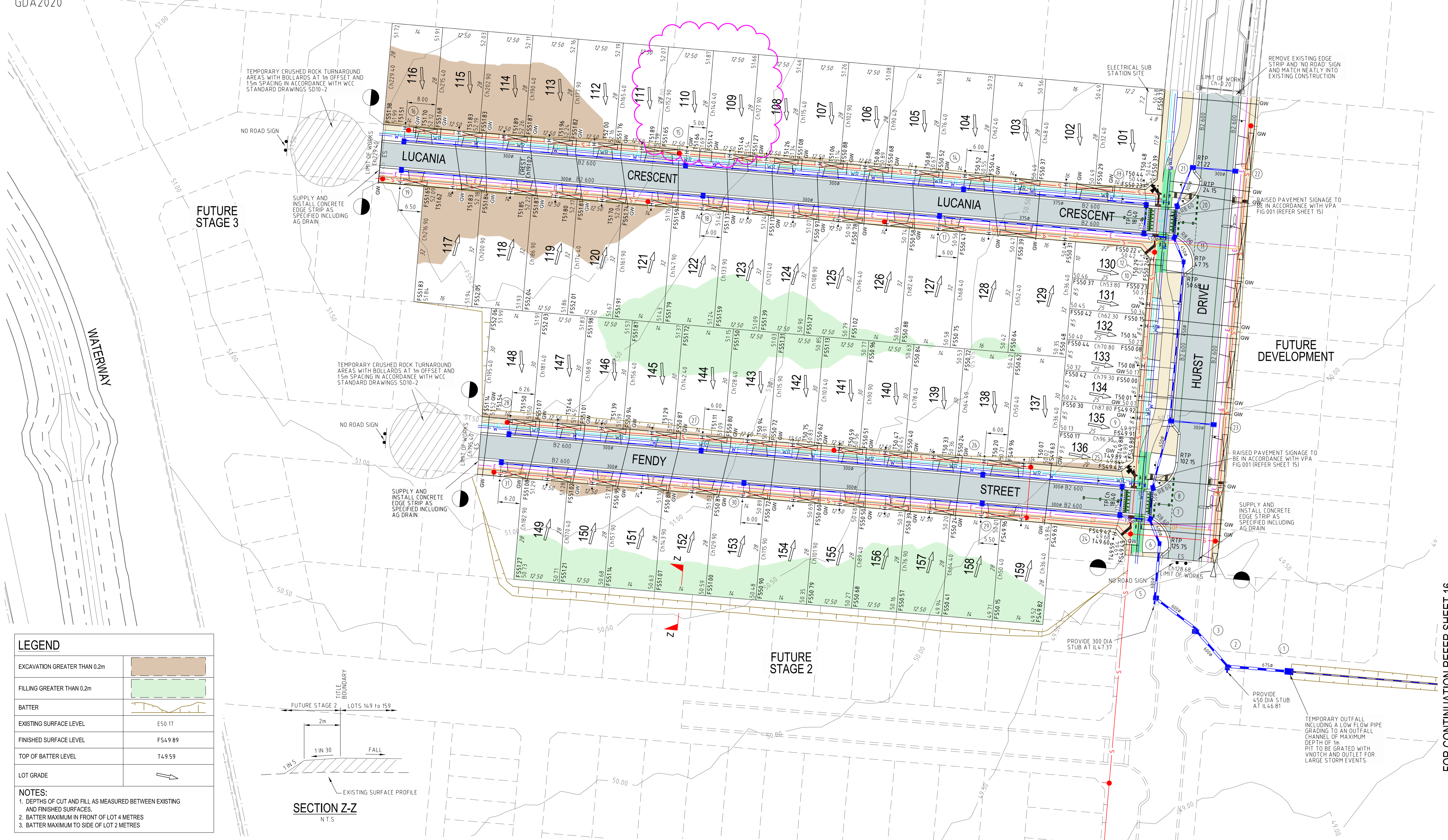
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## HARLOW ESTATE STAGE 1 FACE SHEET

SIG GROUP  
 WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No **309437R01**

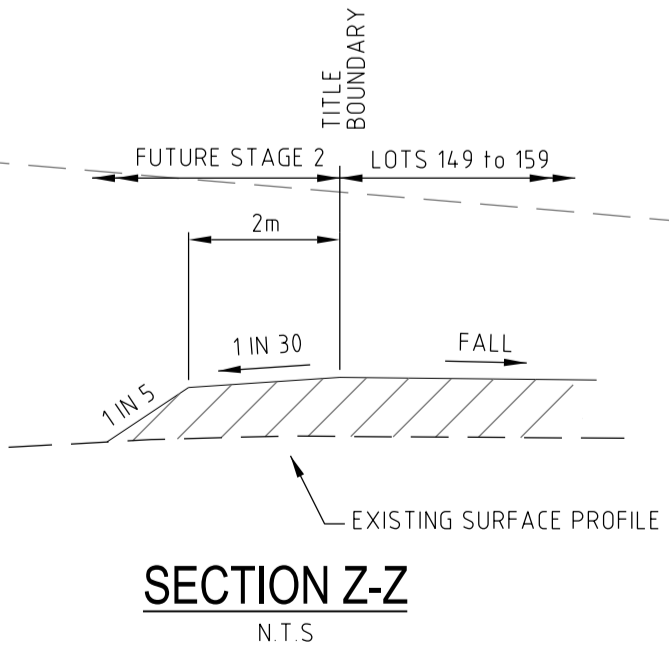
Rev **6**



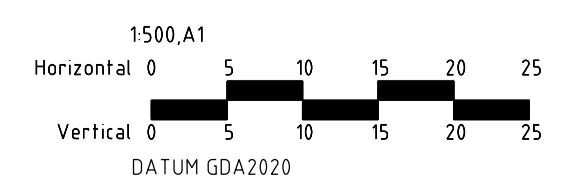
LEGEND	
EXCAVATION GREATER THAN 0.2m	
FILLING GREATER THAN 0.2m	
BATTER	
EXISTING SURFACE LEVEL	E50.17
FINISHED SURFACE LEVEL	FS49.89
TOP OF BATTER LEVEL	T49.59
LOT GRADE	

NOTES:		
1.	DEPTHS OF CUT AND FILL AS MEASURED BETWEEN EXISTING AND FINISHED SURFACES.	
2.	BATTER MAXIMUM IN FRONT OF LOT 4 METRES	
3.	BATTER MAXIMUM TO SIDE OF LOT 2 METRES	



Rev	Description	Approved	Date
1	LOT BOUNDARY DIMENSIONS LOTS 110 & 110 UPDATED	M.R	31/05/23
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22
	Amendments	Approved	Date



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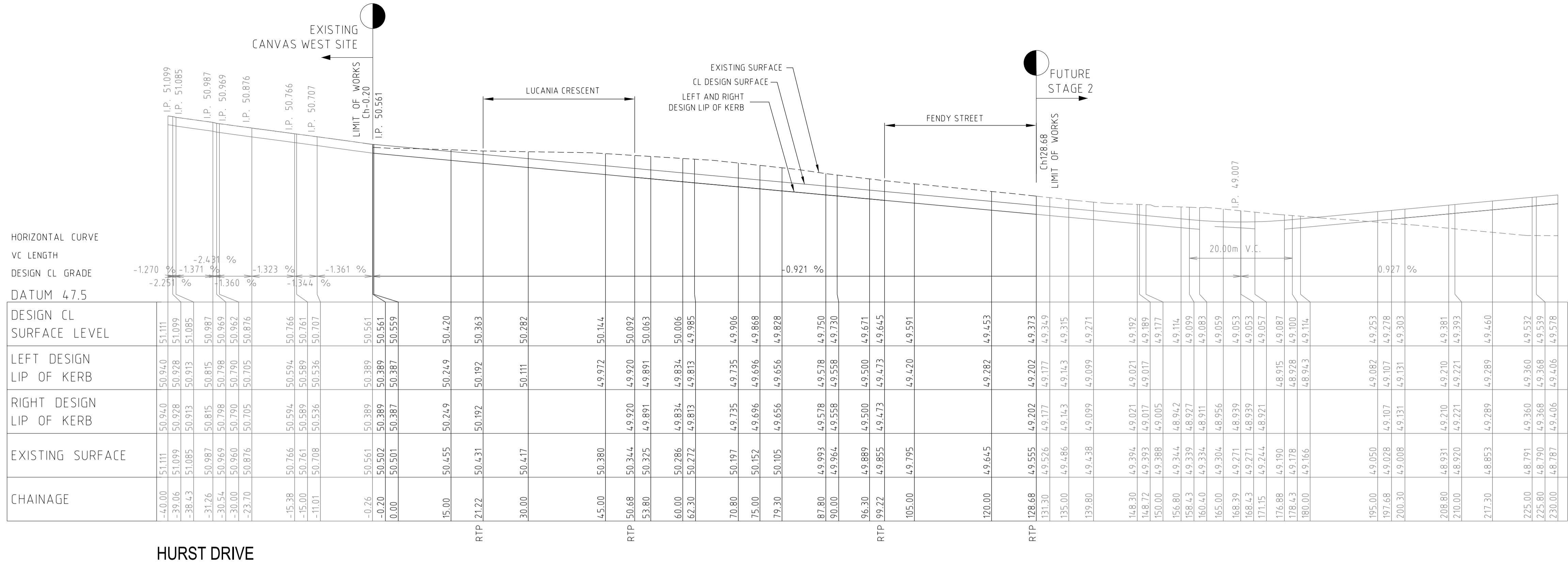
**HARLOW ESTATE**  
**STAGE 1**  
**ROAD & DRAINAGE FACE PLAN**

SIG GROUP  
 WYNDHAM CITY COUNCIL

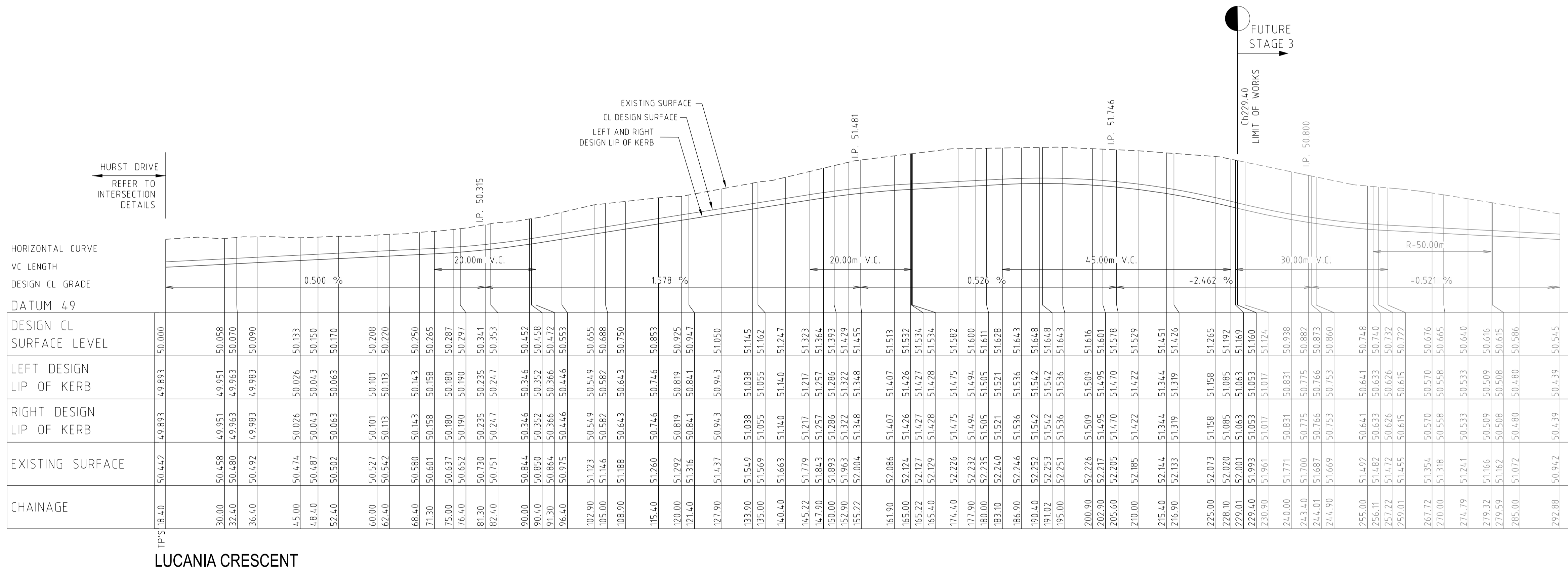
**CONSTRUCTION** Drg No  
**309437R02**

Rev  
**1**

FOR CONTINUATION REFER SHEET 16

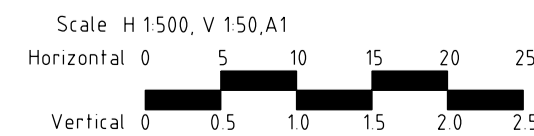


HURST DRIVE



LUCANIA CRESCENT

Rev	Amendments	Approved	Date
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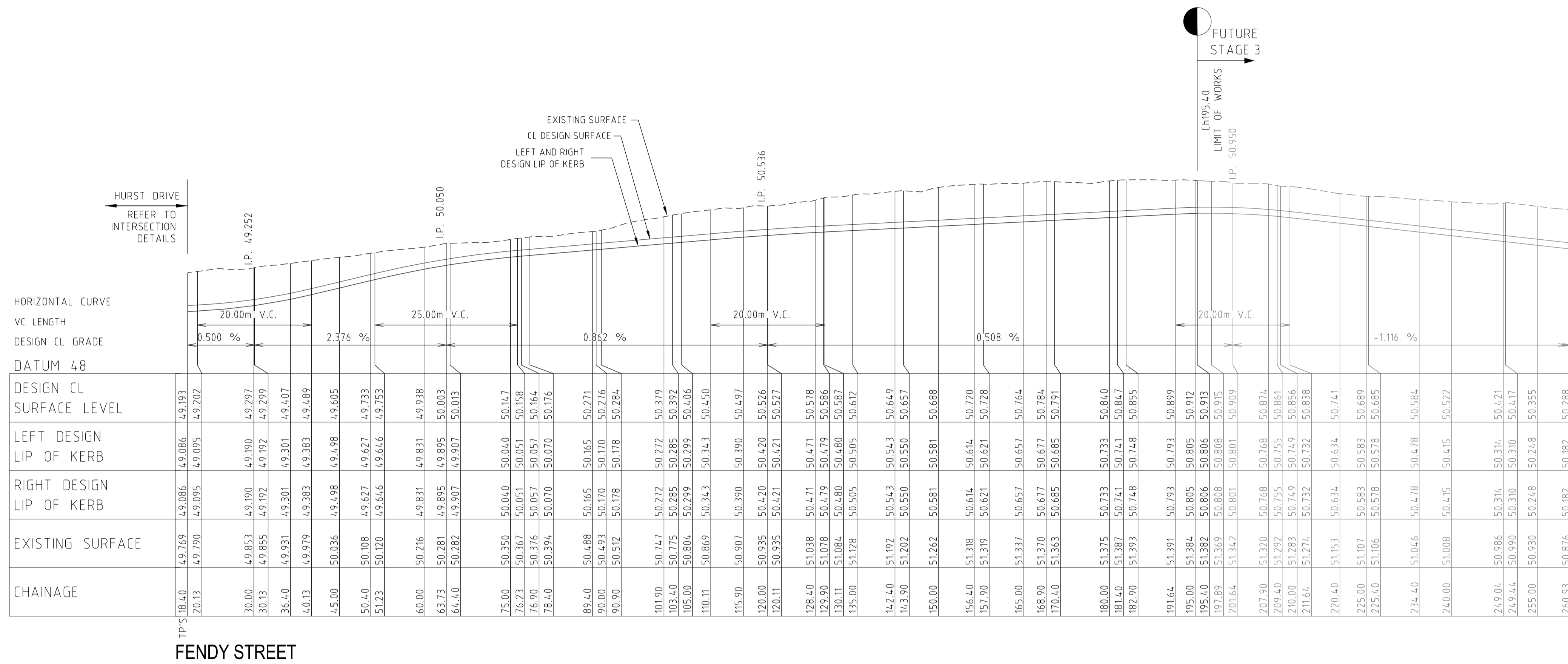
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03-06-2022

**HARLOW ESTATE  
STAGE 1  
LONGITUDINAL SECTIONS - HURST DRIVE  
& LUCANIA CRESCENT**

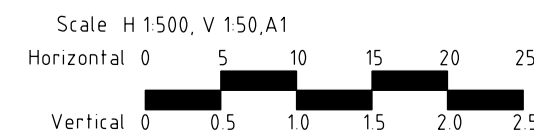
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**CONSTRUCTION** Drg No  
309437R03

Rev  
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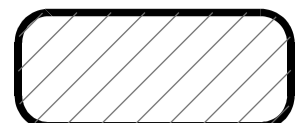


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HARLOW ESTATE  
STAGE 1  
LONGITUDINAL SECTIONS - FENDY STREET

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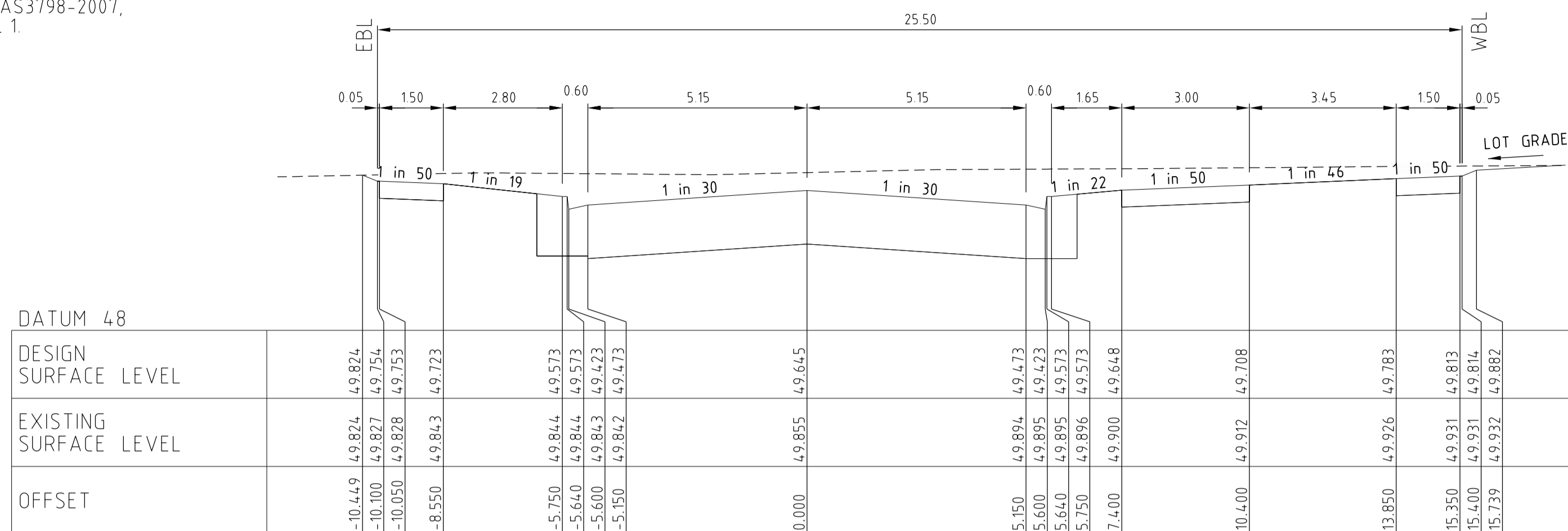
**CONSTRUCTION** Drg No 309437R04 Rev 0



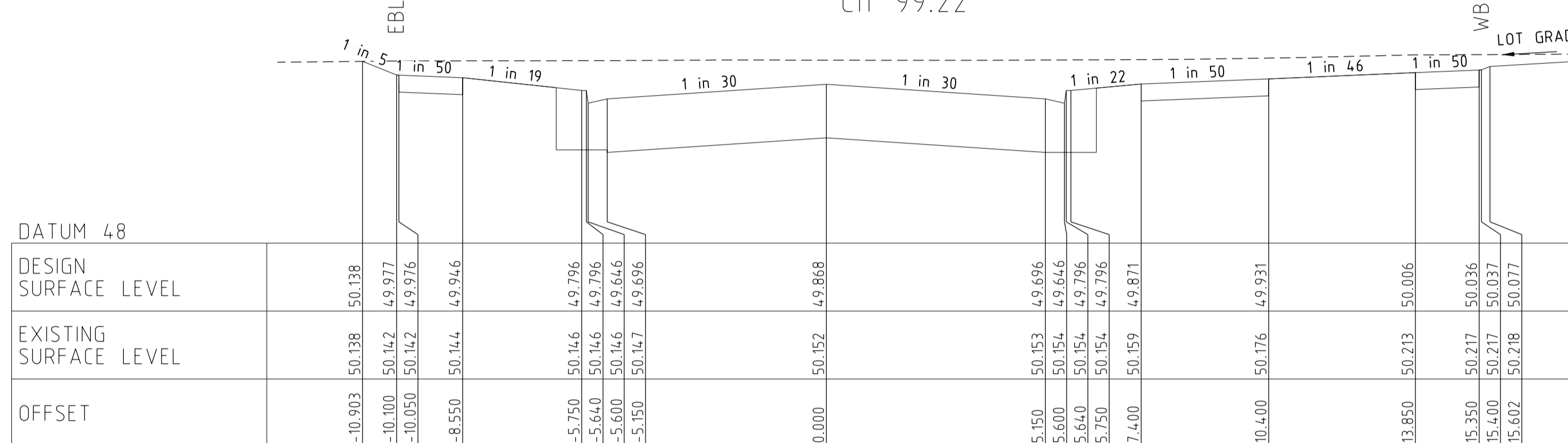
STRUCTURAL FILL  
IN ACCORDANCE  
WITH AS3798-2007,  
LEVEL 1.

FILLING NOTE

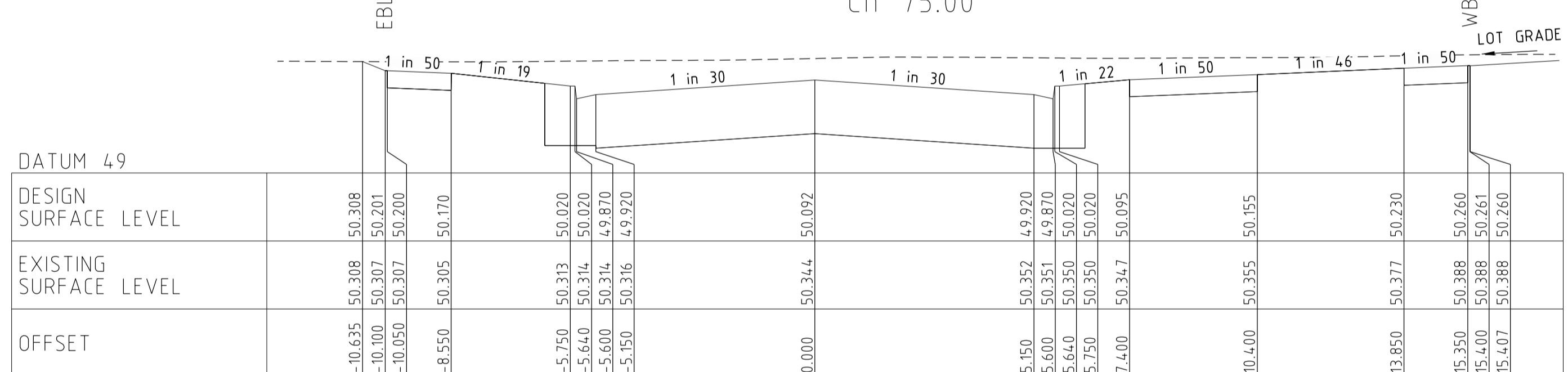
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.



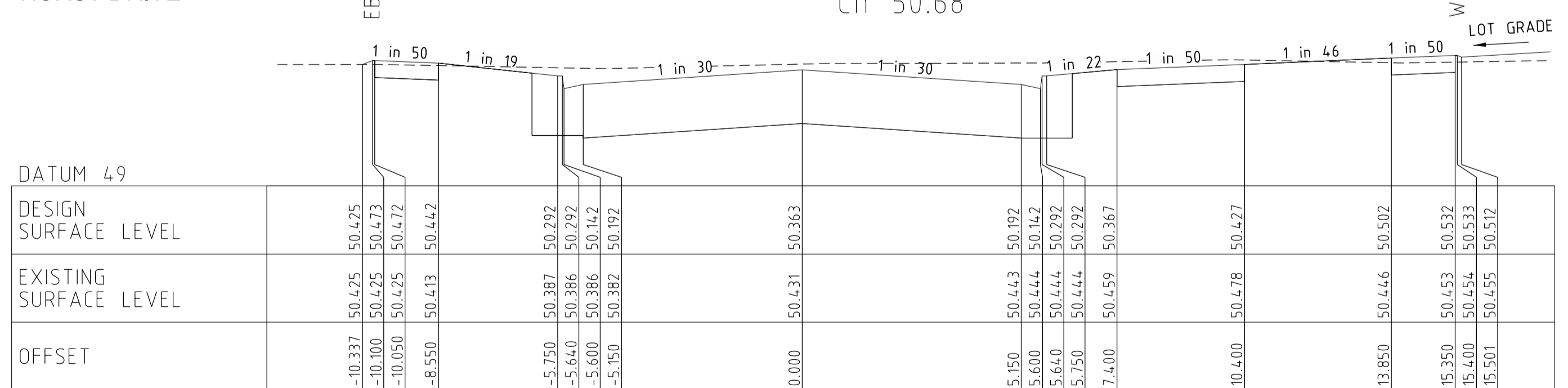
HURST DRIVE



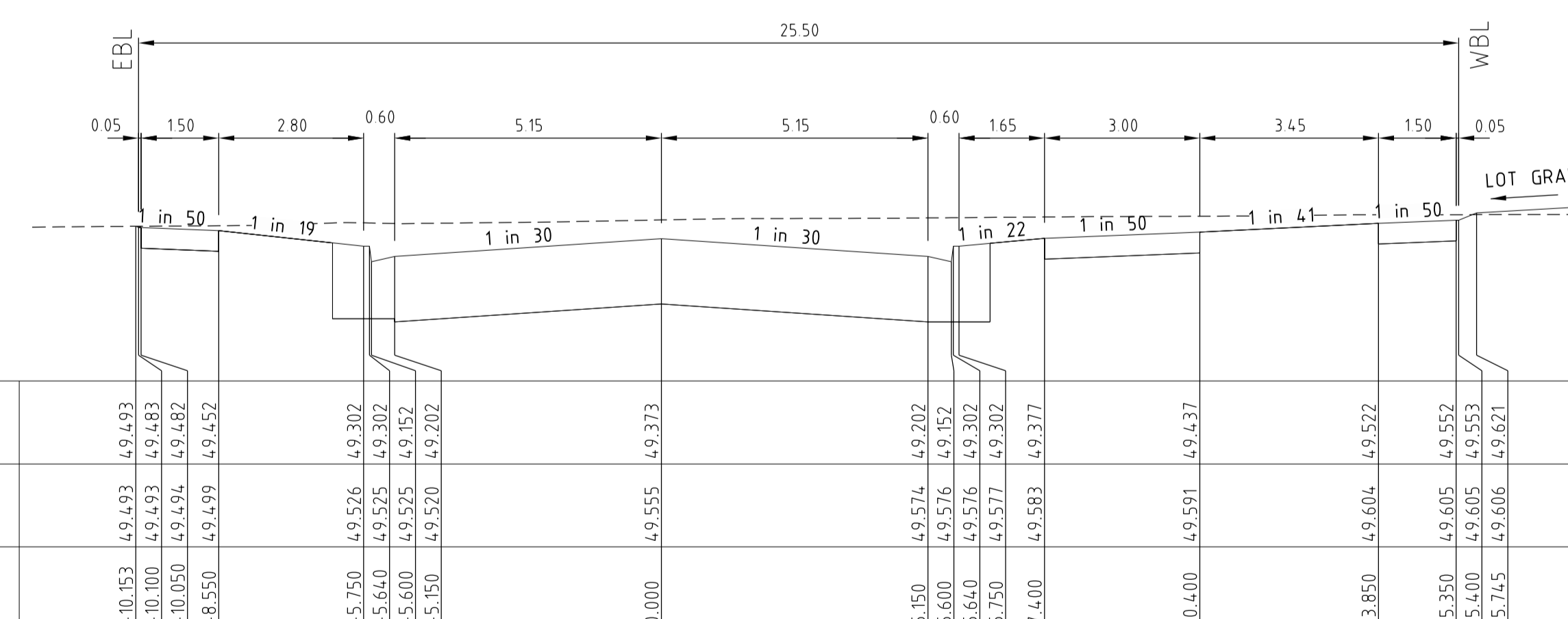
HURST DRIVE



HURST DRIVE

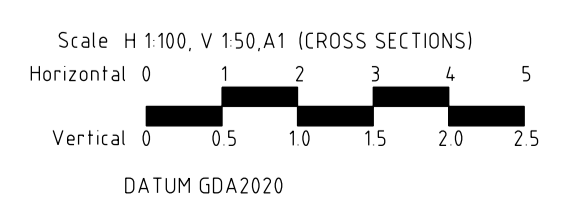


HURST DRIVE



HURST DRIVE

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	Amendments		



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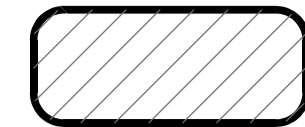
**HARLOW ESTATE**  
**STAGE 1**  
**CROSS SECTIONS - HURST DRIVE**

SIG GROUP  
WYNDHAM CITY COUNCIL

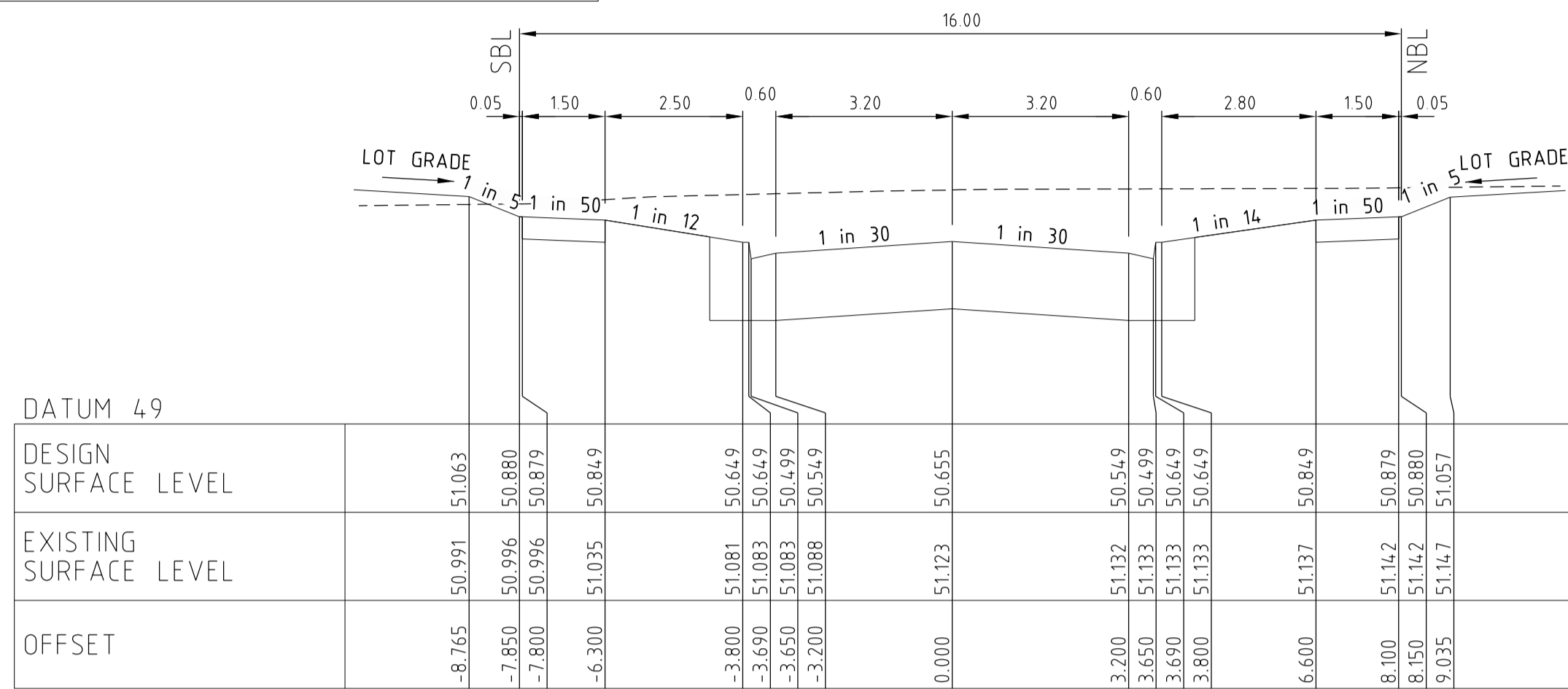
**CONSTRUCTION** Drg No **309437R05** Rev **0**

**FILLING NOTE**

ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

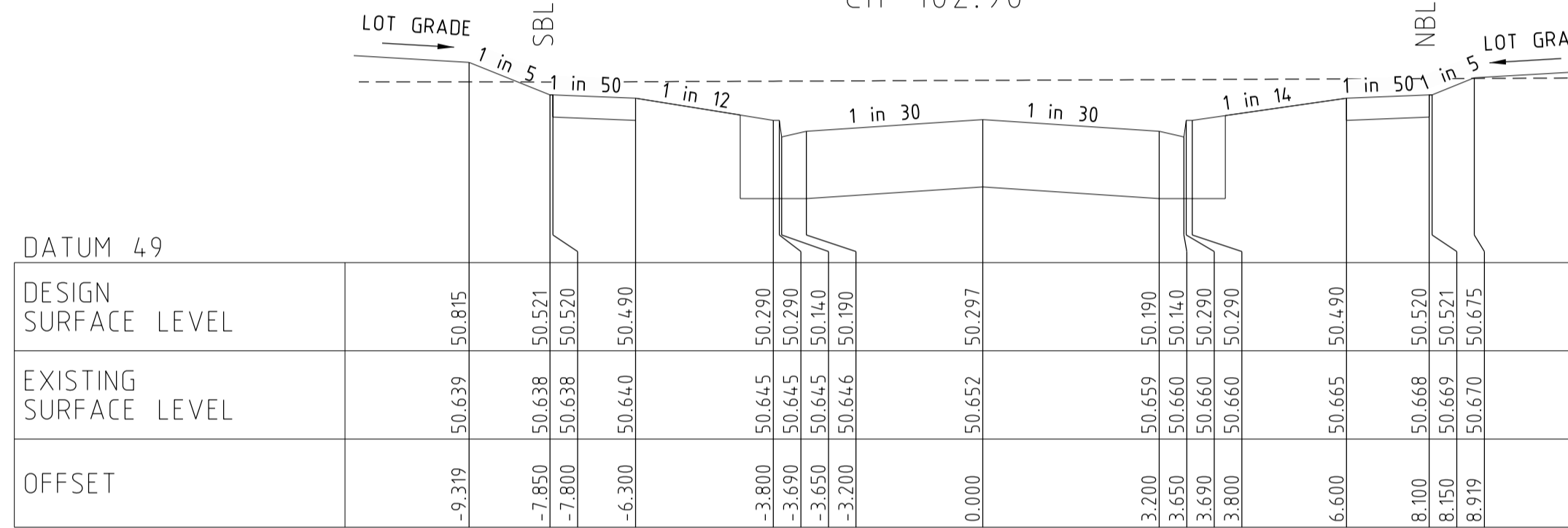


STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1.



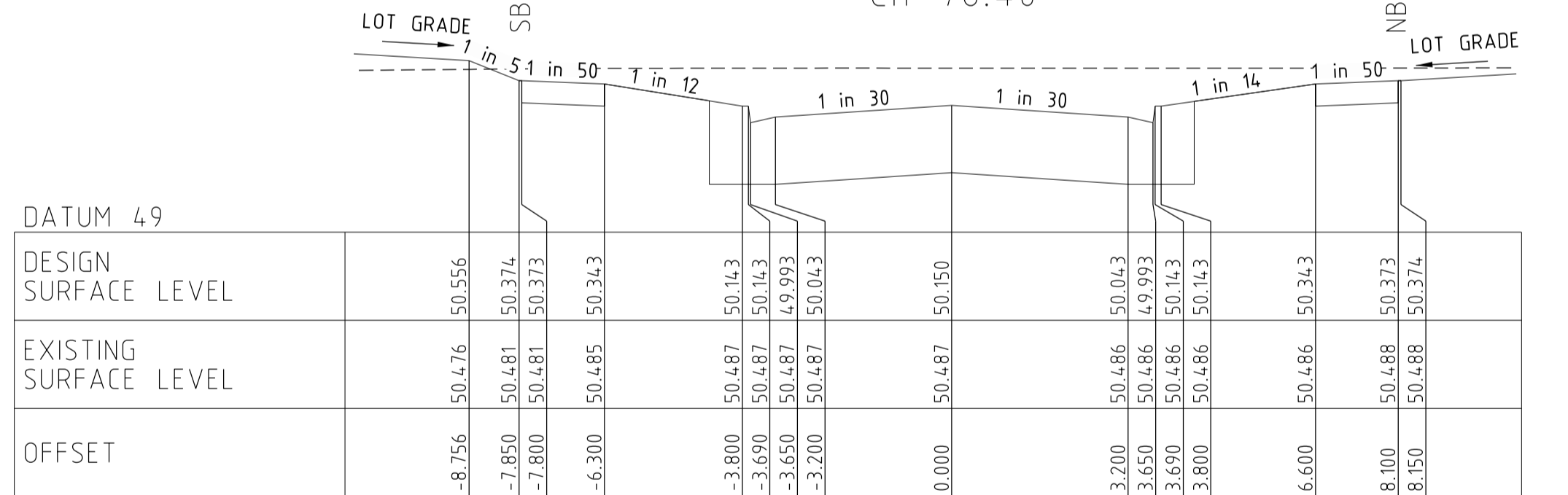
LUCANIA CRESCENT

Ch 102.90



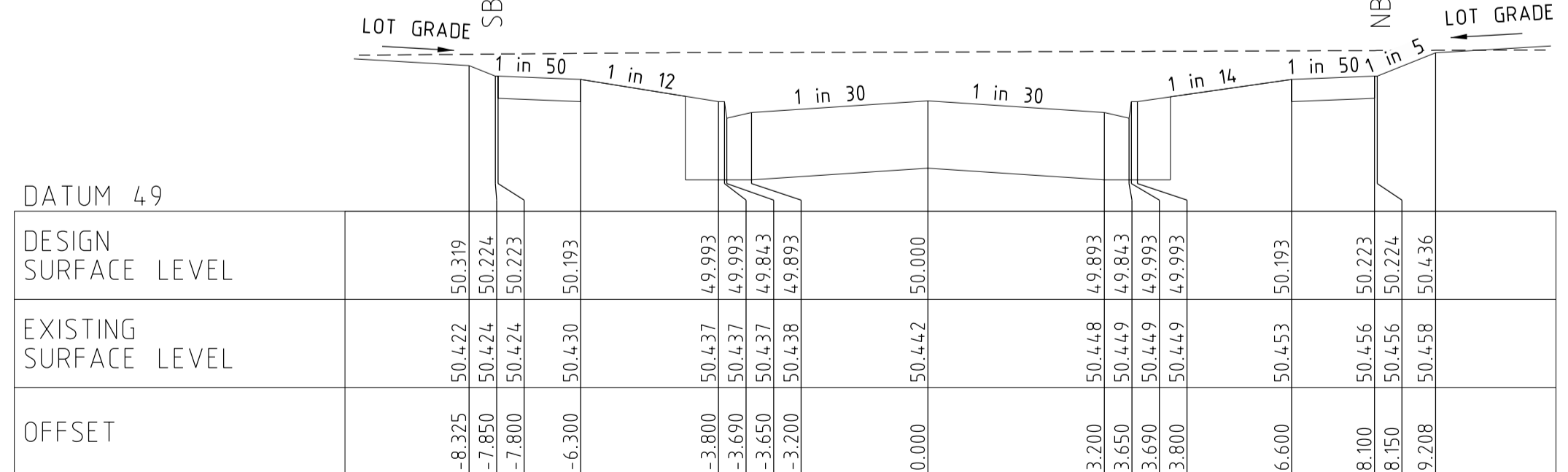
LUCANIA CRESCENT

Ch 76.40



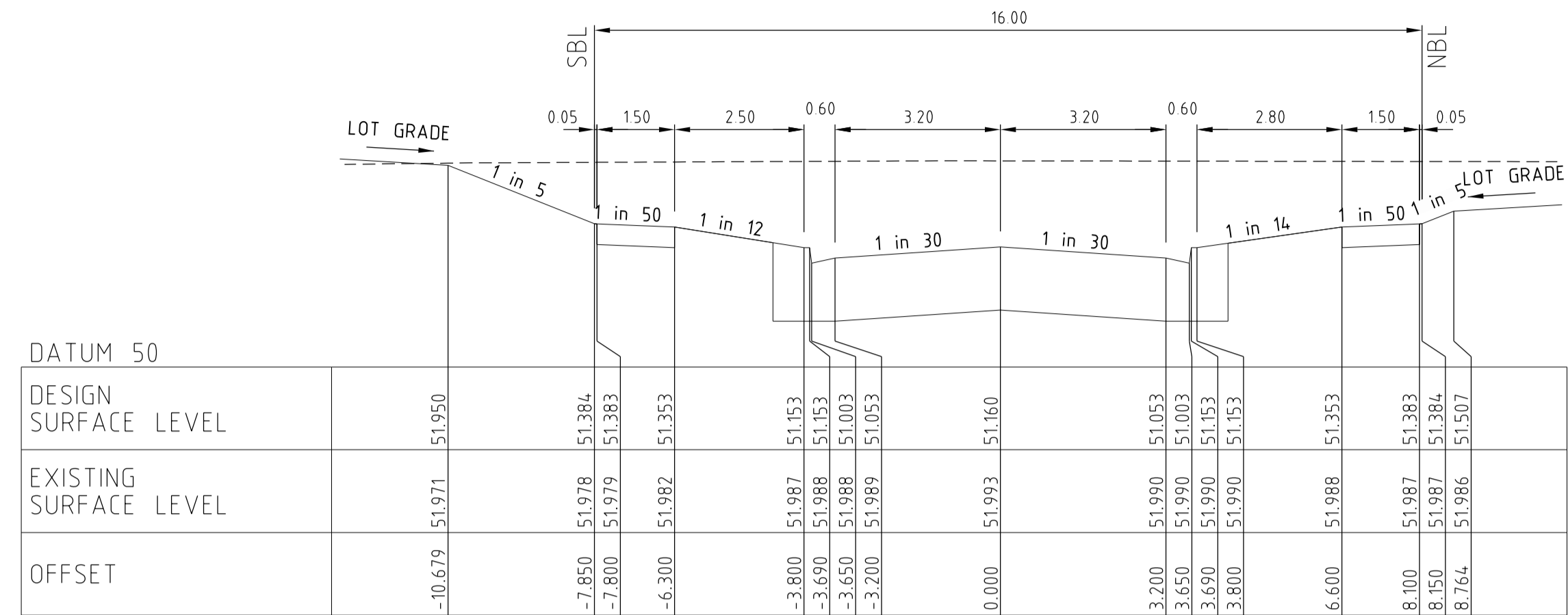
LUCANIA CRESCENT

Ch 48.40



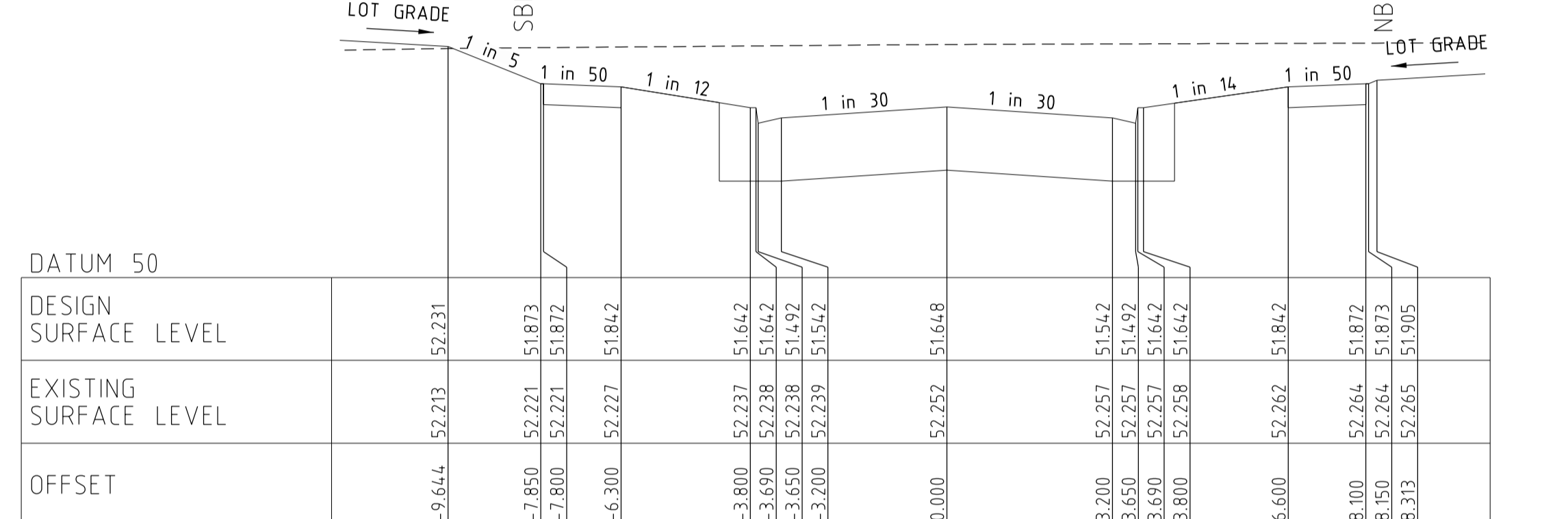
LUCANIA CRESCENT

Ch 18.40



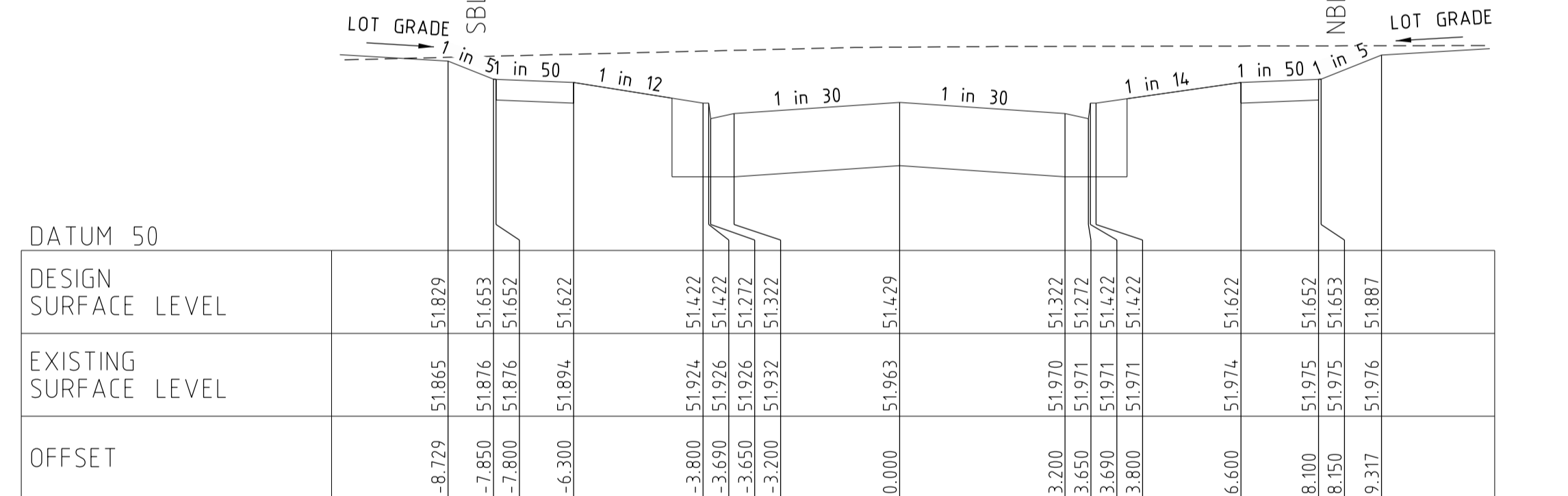
LUCANIA CRESCENT

Ch 229.40



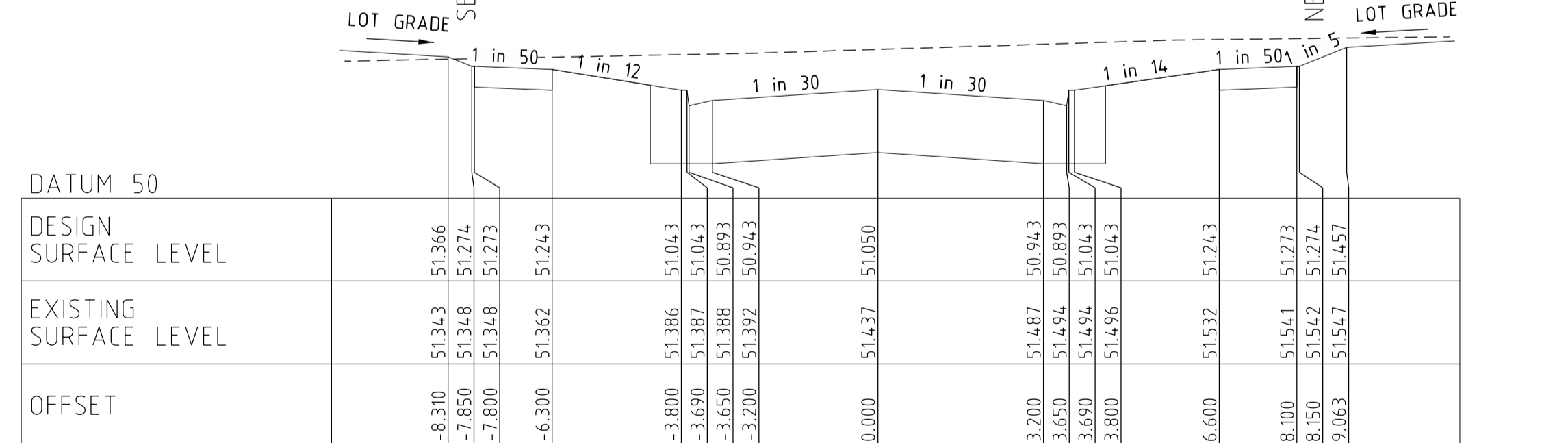
LUCANIA CRESCENT

Ch 190.40



LUCANIA CRESCENT

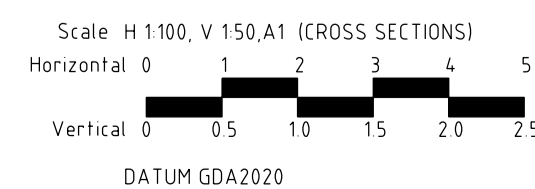
Ch 152.90



LUCANIA CRESCENT

Ch 127.90

Rev	Description	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22
	Amendments		



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Designed  
**R. WEINBER**  
Authorised

Checked  
Date  
03-06-2022

**HARLOW ESTATE  
STAGE 1  
CROSS SECTIONS - LUCANIA CRESCENT**

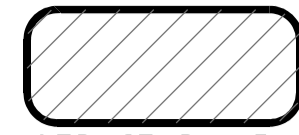
SIG GROUP  
WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No  
**309437R06**

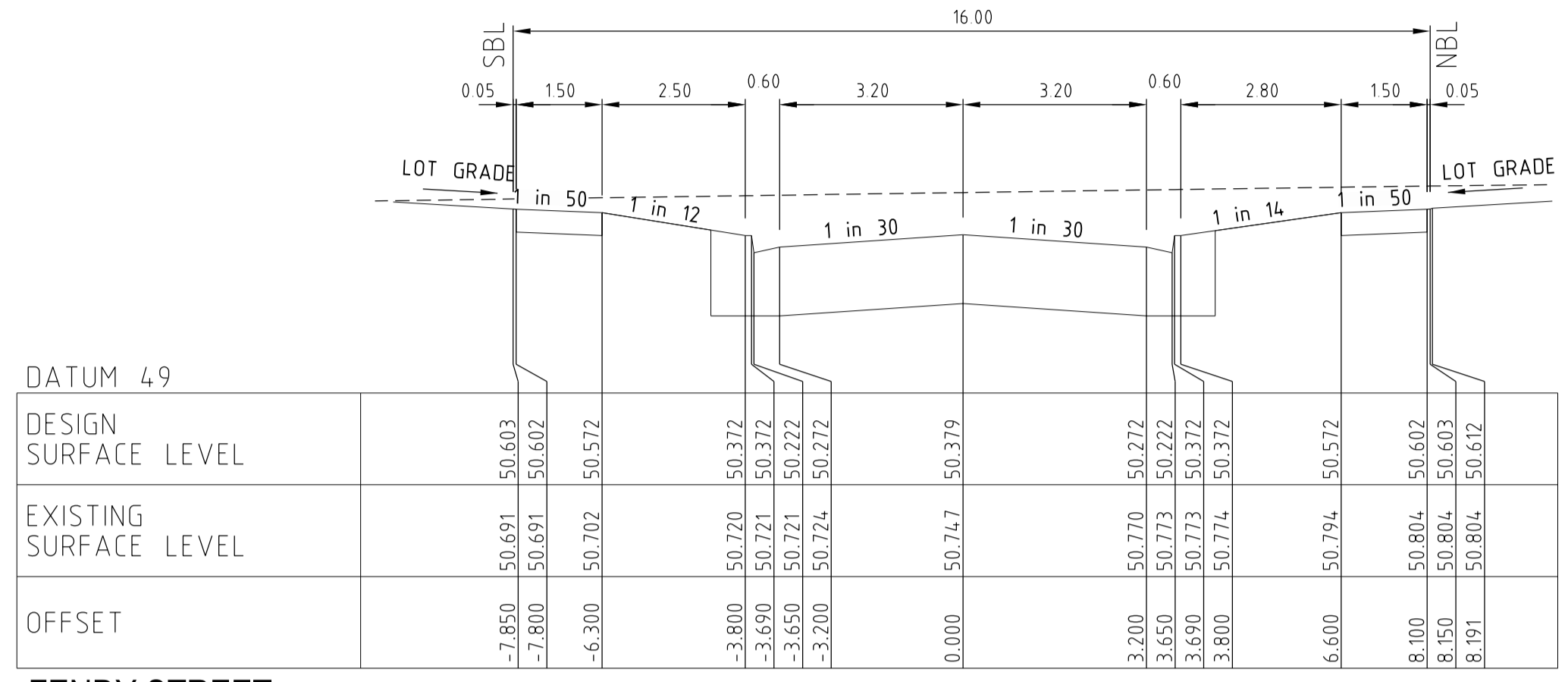
Rev  
**0**

**FILLING NOTE**

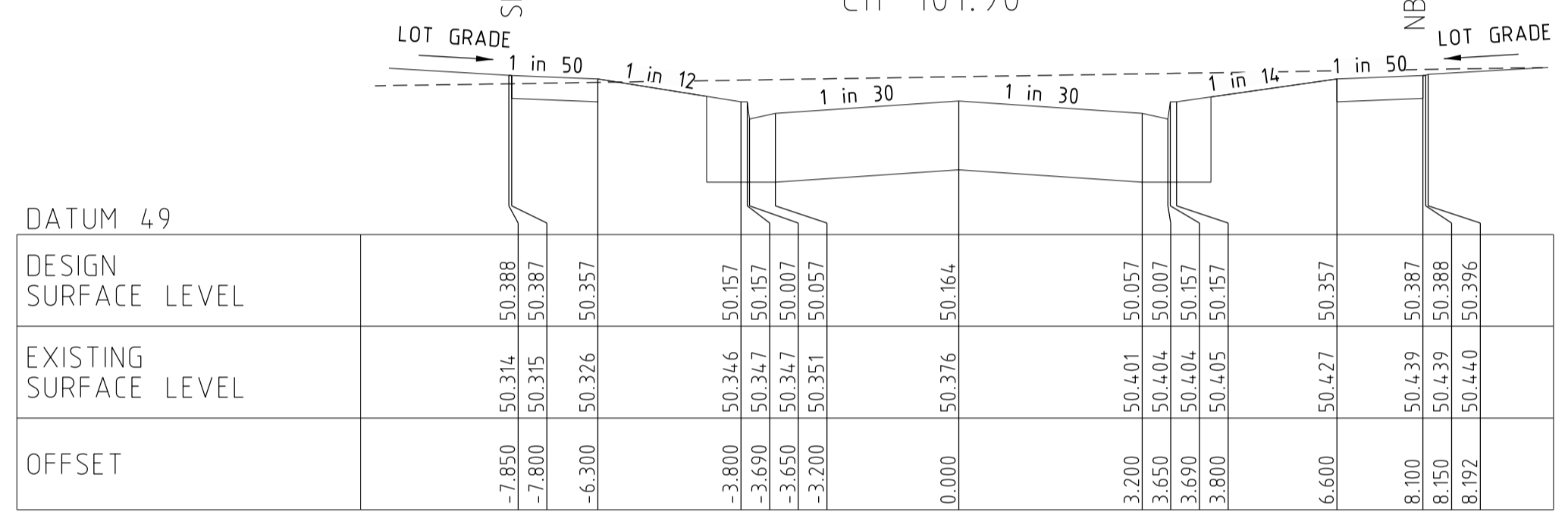
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.



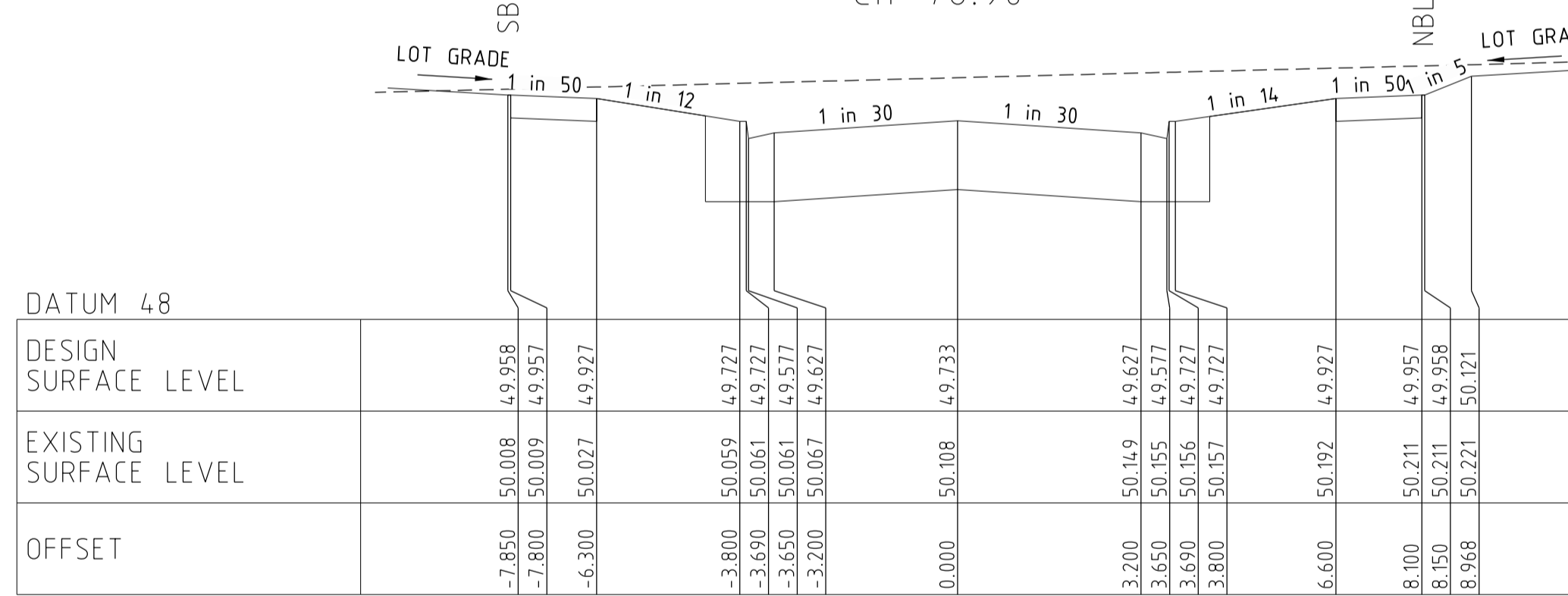
STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1.



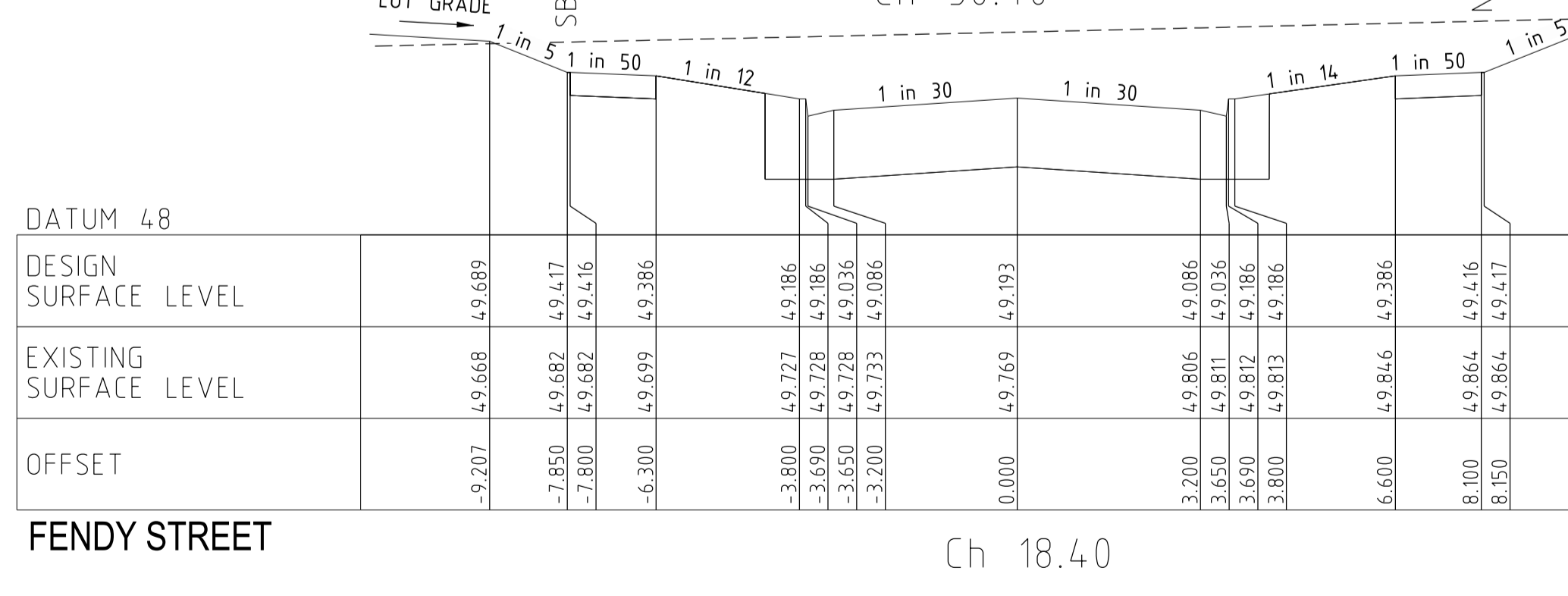
FENDY STREET



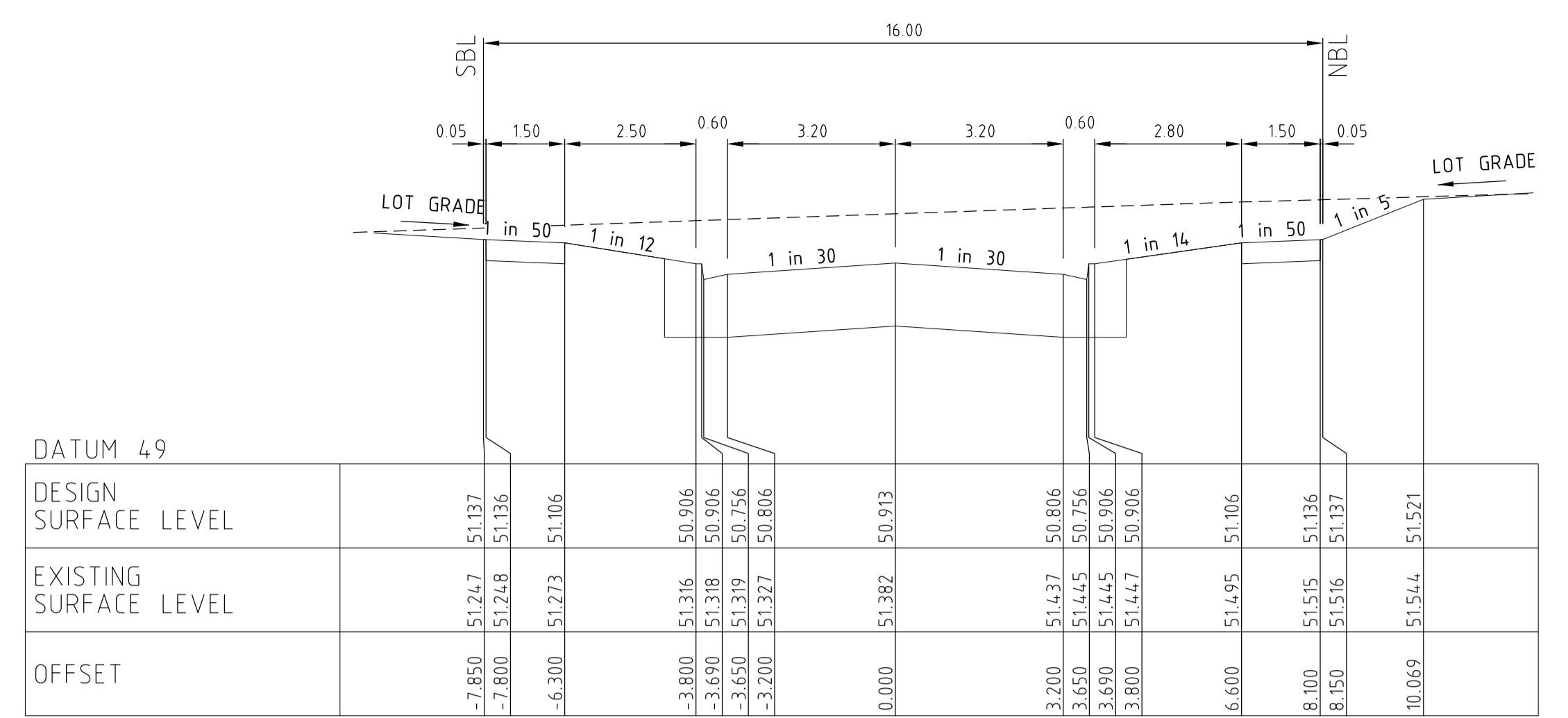
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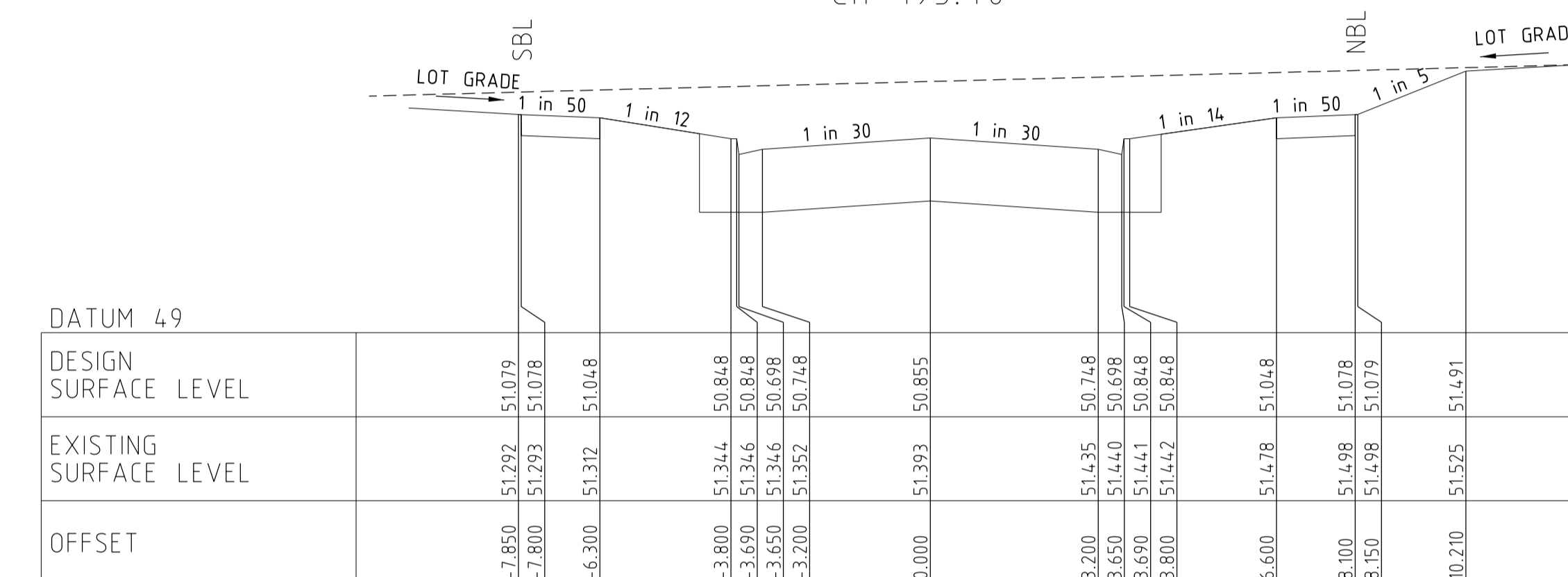
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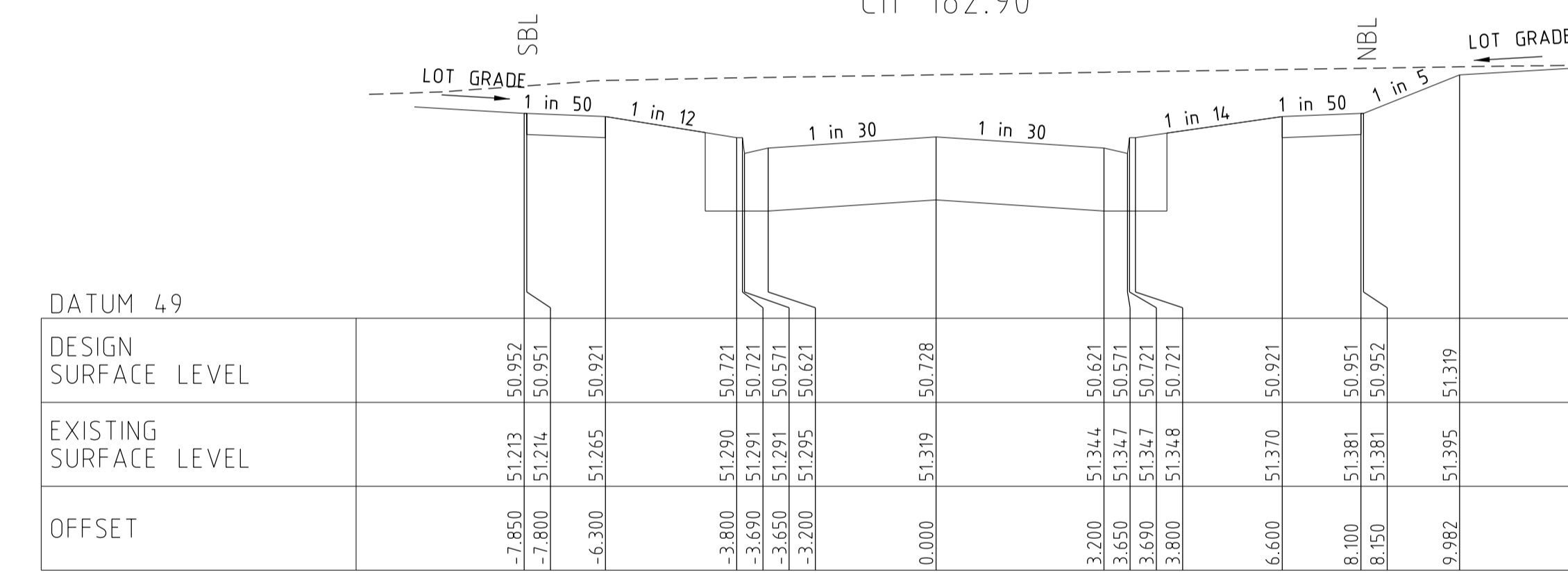
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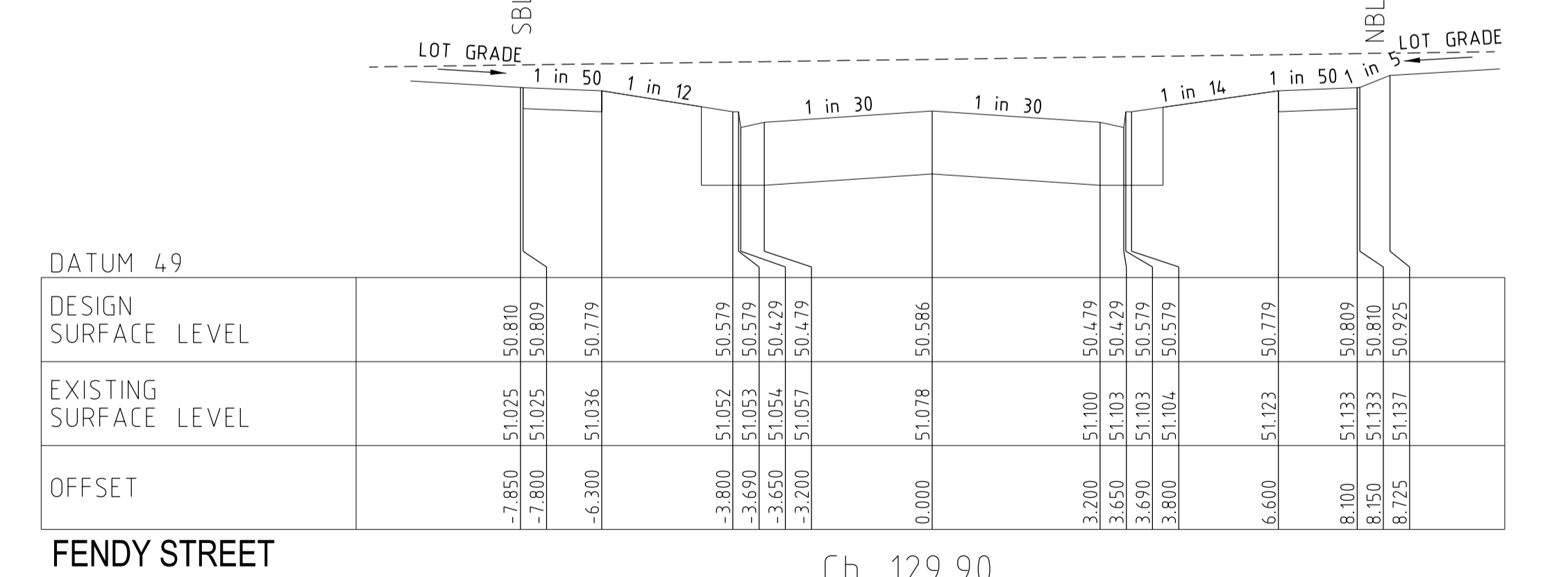
FENDY STREET



FENDY STREET

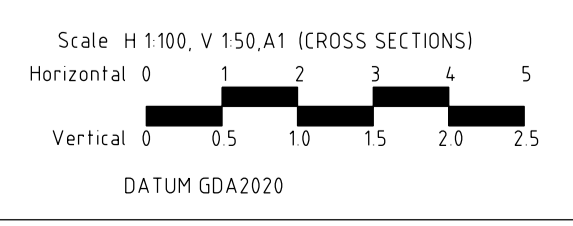


FENDY STREET



FENDY STREET

0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22
Rev	Amendments	Approved	Date

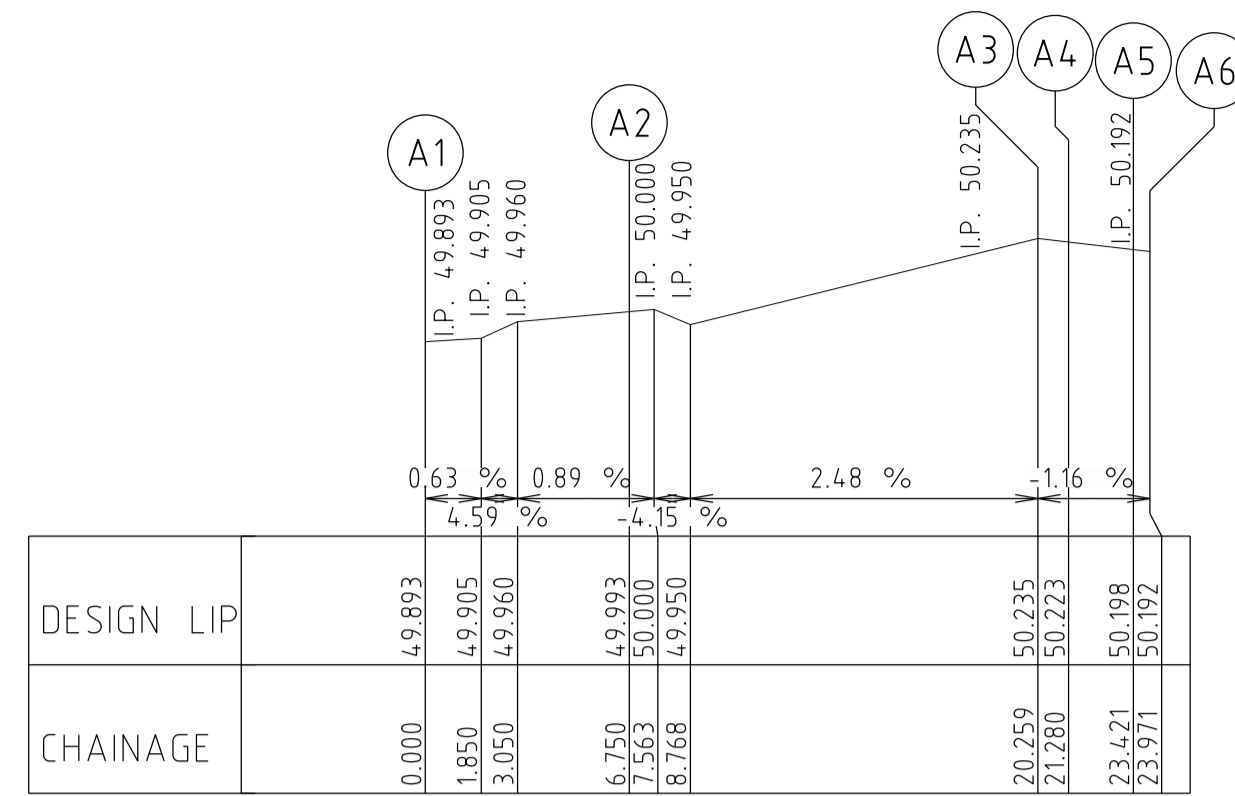
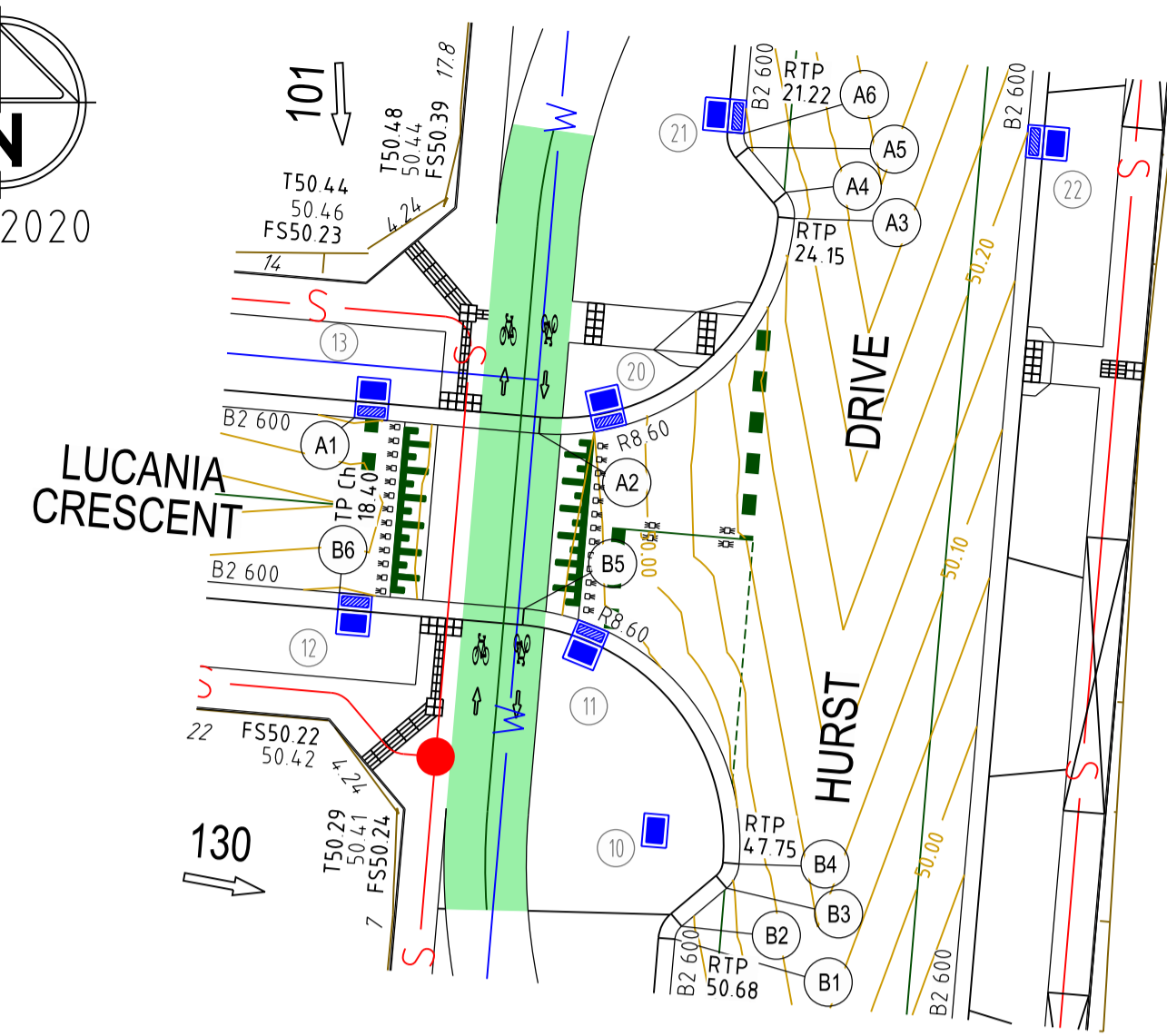


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**Harlow**  
T A R N E I T  
Designed  
R. WEINBER  
Checked  
Date  
03-06-2022

**HARLOW ESTATE**  
STAGE 1  
CROSS SECTIONS - FENDY STREET  
SIG GROUP  
WYNDHAM CITY COUNCIL  
**CONSTRUCTION** Drg No 309437R07 Rev 0

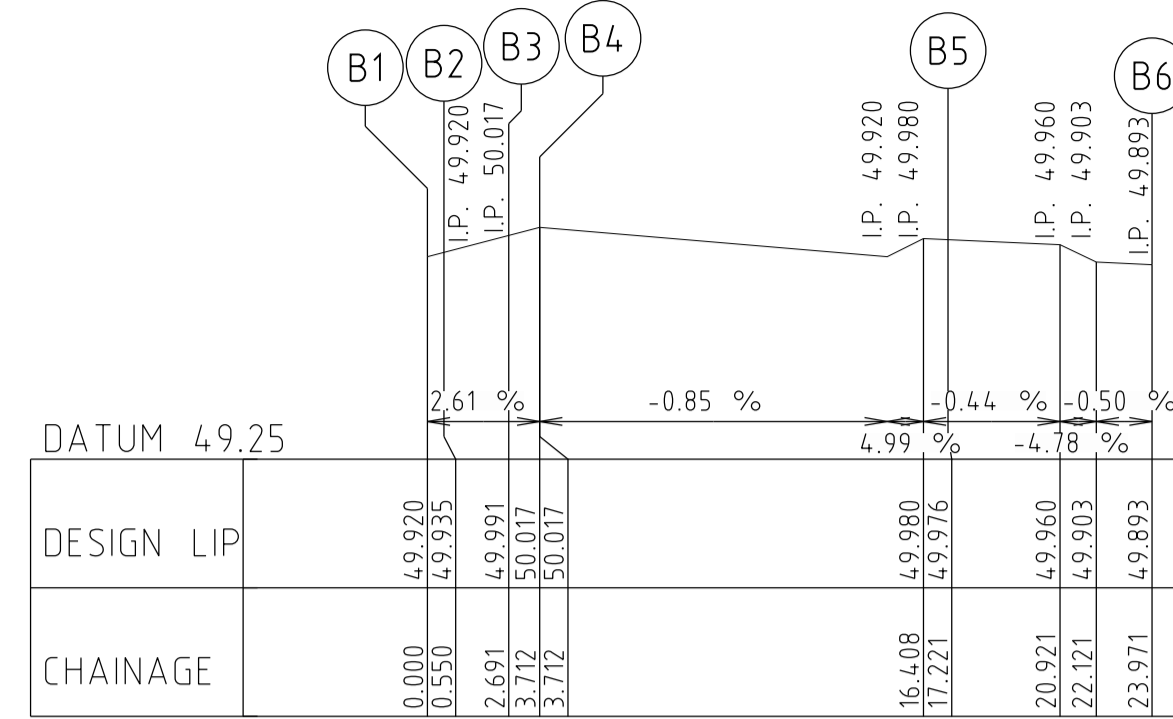


LIP LINE A  
Hor250  
Ver25

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	297783.064	5812784.777	49.893
A2	297789.789	5812784.201	49.993
1/4	297793.124	5812784.573	49.984
1/2	297796.063	5812786.193	50.067
3/4	297798.158	5812788.814	50.151
A3	297799.091	5812792.037	50.235
1/4	297799.088	5812792.292	50.232
1/2	297799.035	5812792.541	50.229
3/4	297798.934	5812792.795	50.226
A4	297798.790	5812792.985	50.223
A5	297797.410	5812794.623	50.198
1/4	297797.333	5812794.736	50.196
1/2	297797.278	5812794.862	50.195
3/4	297797.250	5812794.996	50.193
A6	297797.248	5812795.134	50.192

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A2-A3	8.600	13.509	12.162	2.519	-0.655
A3-A4	1.300	1.021	0.995	0.099	-0.025
A5-A6	0.700	0.550	0.536	0.053	0.013

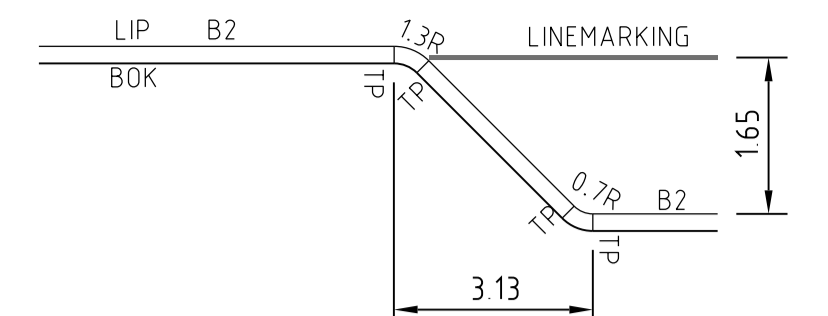


LIP LINE B  
Hor250  
Ver25

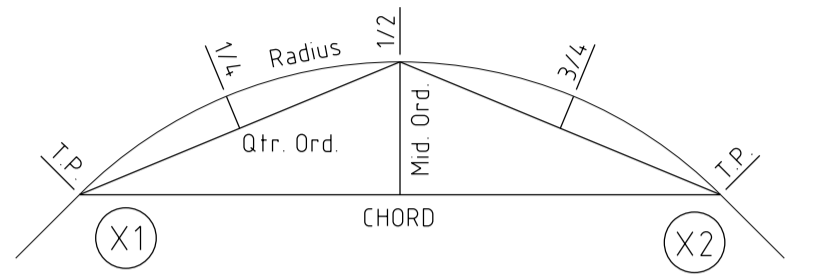
ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	297794.737	5812765.784	49.920
1/4	297794.762	5812765.919	49.924
1/2	297794.813	5812766.046	49.927
3/4	297794.888	5812766.161	49.931
B2	297794.984	5812766.260	49.935
B3	297796.622	5812767.639	49.991
1/4	297796.799	5812767.822	49.997
1/2	297796.938	5812768.035	50.004
3/4	297797.033	5812768.272	50.011
B4	297797.079	5812768.523	50.017
1/4	297796.708	5812771.858	49.989
1/2	297795.088	5812774.796	49.960
3/4	297792.467	5812776.892	49.932
B5	297789.244	5812777.824	49.976
B6	297782.518	5812778.400	49.893

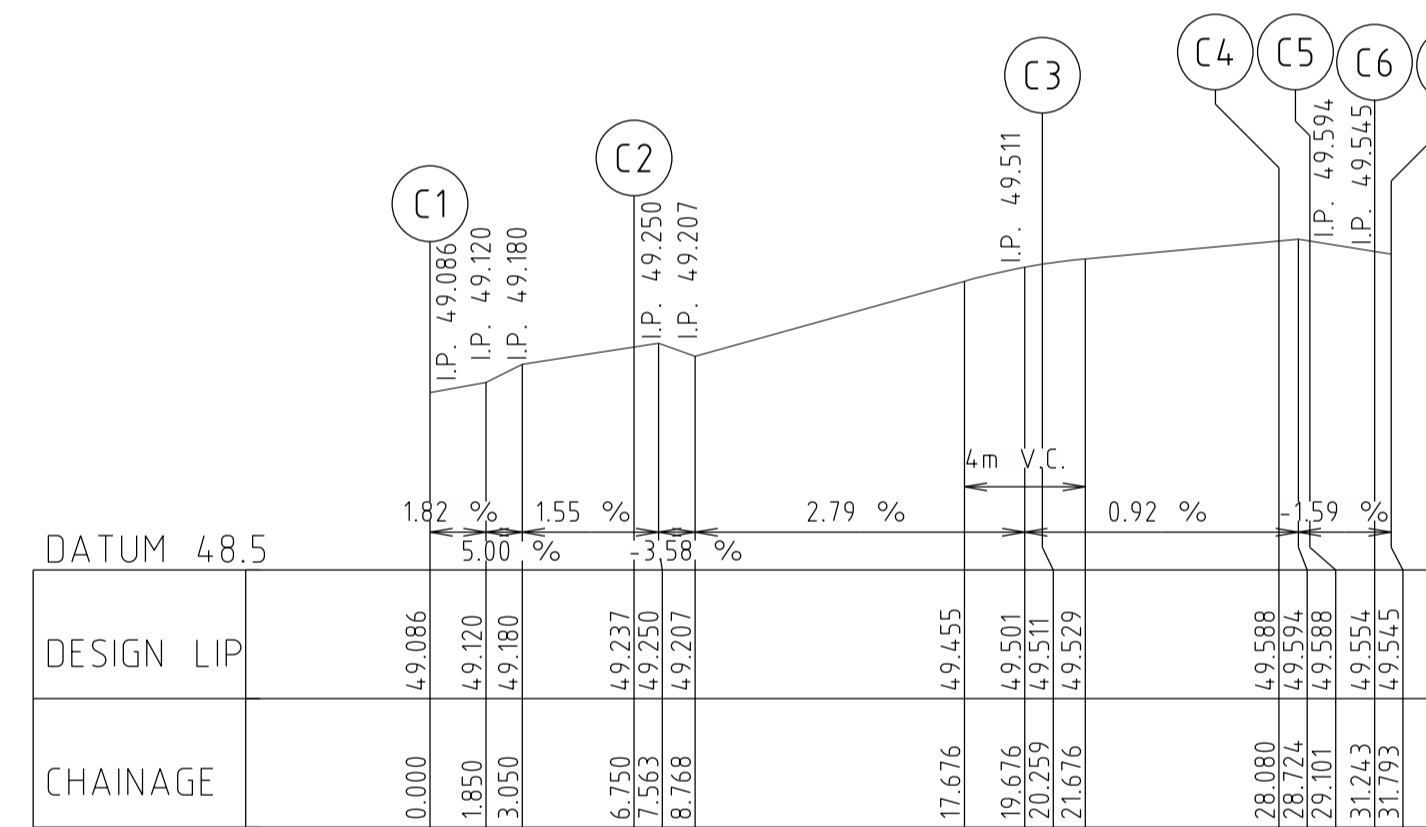
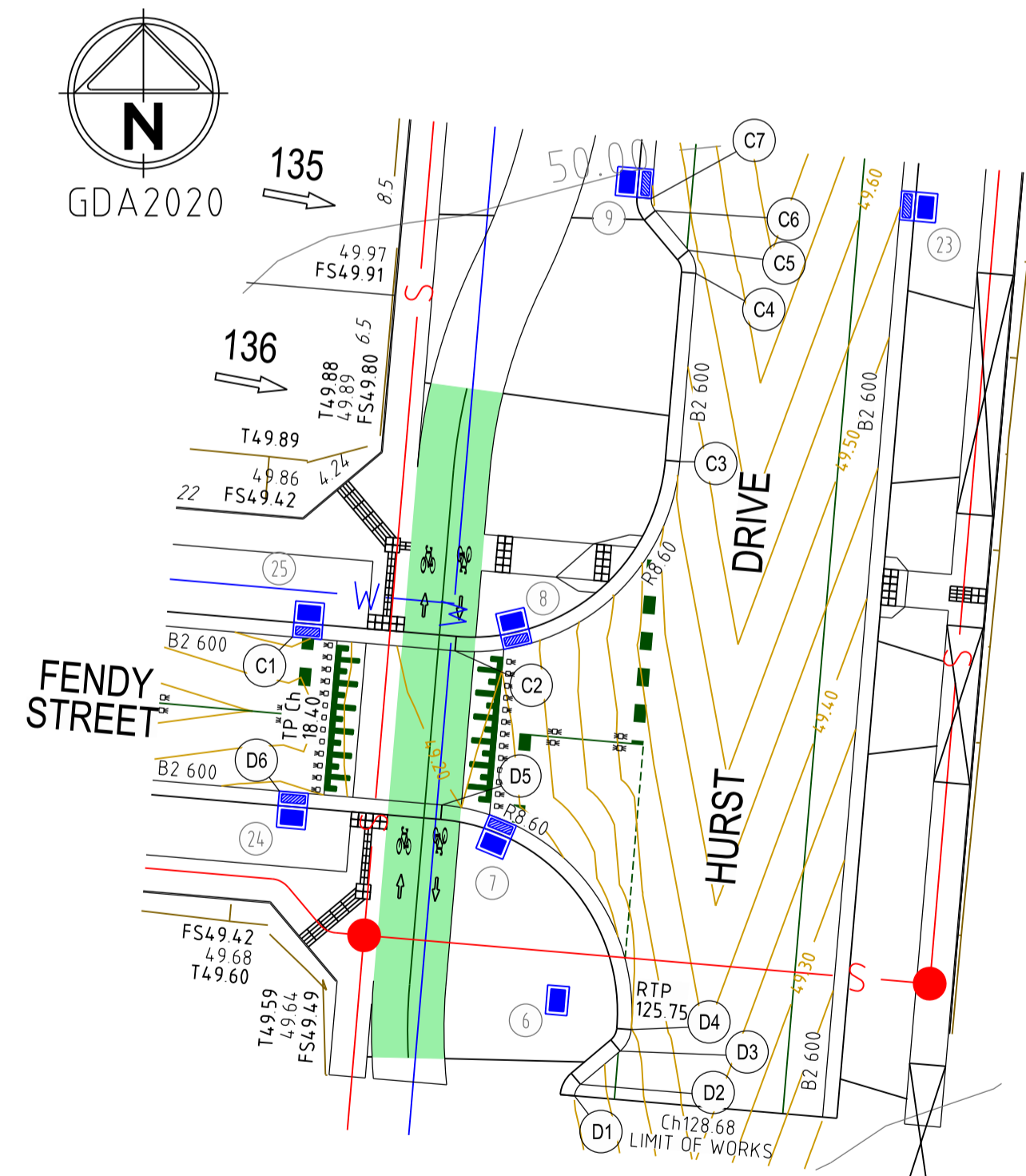
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	0.700	0.550	0.536	0.053	0.013
B3-B4	1.300	1.021	0.995	0.099	-0.025
B4-B5	8.600	13.509	12.162	2.519	-0.655



TYPICAL KERB INDENT DETAIL  
N.T.S



KERB RETURN SETOUT DETAIL

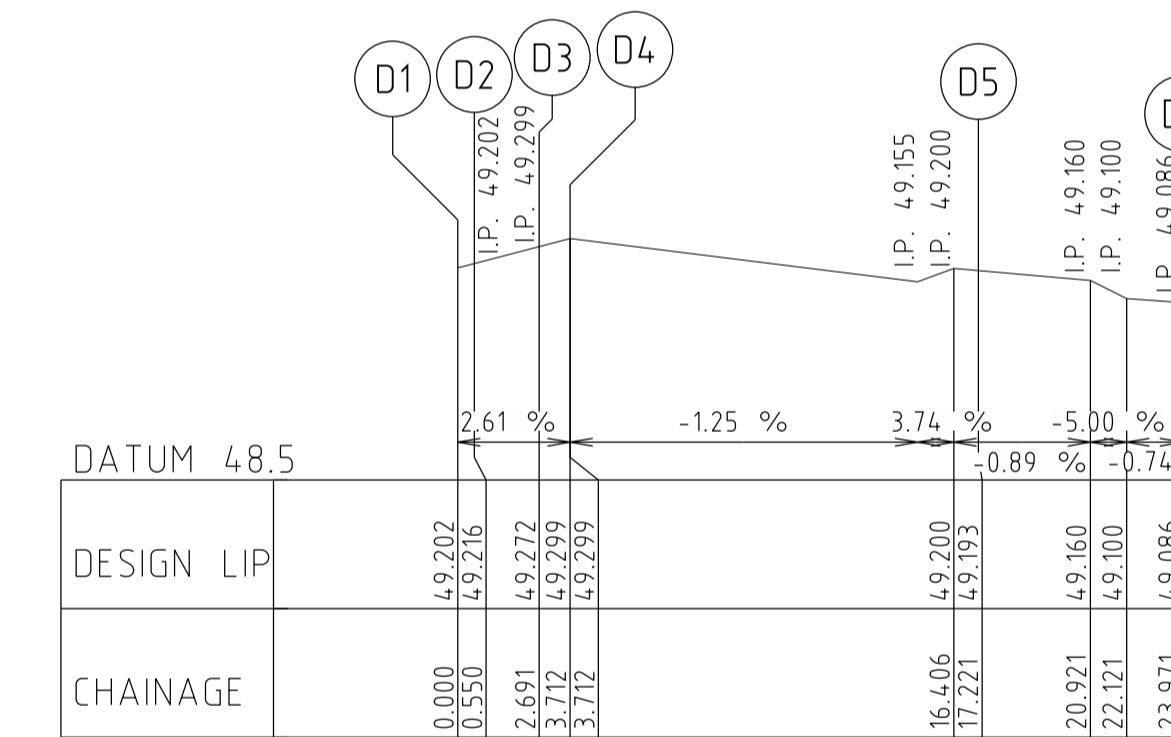


LIP LINE C  
Hor250  
Ver25

ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	297776.415	5812707.060	49.086
C2	297783.141	5812706.485	49.237
1/4	297786.475	5812706.857	49.245
1/2	297789.414	5812708.476	49.339
3/4	297791.510	5812711.097	49.433
C3	297792.442	5812714.321	49.511
C4	297793.109	5812722.114	49.588
1/4	297793.106	5812722.369	49.590
1/2	297793.053	5812722.618	49.593
3/4	297792.952	5812722.852	49.592
C5	297792.808	5812723.062	49.588
C6	297791.428	5812724.700	49.554
1/4	297791.351	5812724.813	49.552
1/2	297791.297	5812724.939	49.549
3/4	297791.268	5812725.073	49.547
C7	297791.266	5812725.211	49.545

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C2-C3	8.600	13.509	12.162	2.519	-0.655
C4-C5	1.300	1.021	0.995	0.099	-0.025
C6-C7	0.700	0.550	0.536	0.053	0.013



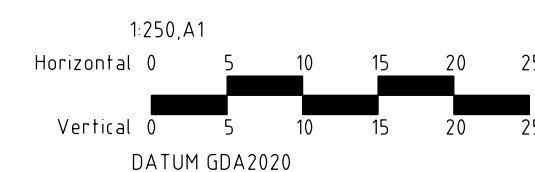
LIP LINE D  
Hor250  
Ver25

ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	297788.089	5812688.068	49.202
1/4	297788.114	5812688.203	49.205
1/2	297788.165	5812688.330	49.209
3/4	297788.239	5812688.445	49.212
D2	297788.335	5812688.544	49.216
D3	297789.973	5812689.923	49.272
1/4	297790.151	5812690.106	49.279
1/2	297790.290	5812690.319	49.285
3/4	297790.384	5812690.556	49.292
D4	297790.431	5812690.807	49.299
1/4	297790.059	5812694.141	49.256
1/2	297788.439	5812697.080	49.214
3/4	297785.818	5812699.176	49.172
D5	297782.595	5812700.108	49.193
D6	297775.870	5812700.684	49.086

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	0.700	0.550	0.536	0.053	0.013
D3-D4	1.300	1.021	0.995	0.099	-0.025
D4-D5	8.600	13.509	12.162	2.519	-0.655

Rev	Description	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22
1	Amendments		



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Designed  
**R. WEINBER**  
Authorised  
**M. READMAN**

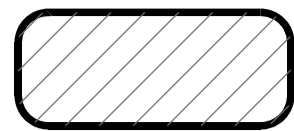
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**M. READMAN**  
Date  
**03-06-2022**

**HARLOW ESTATE  
STAGE 1  
INTERSECTION DETAILS**

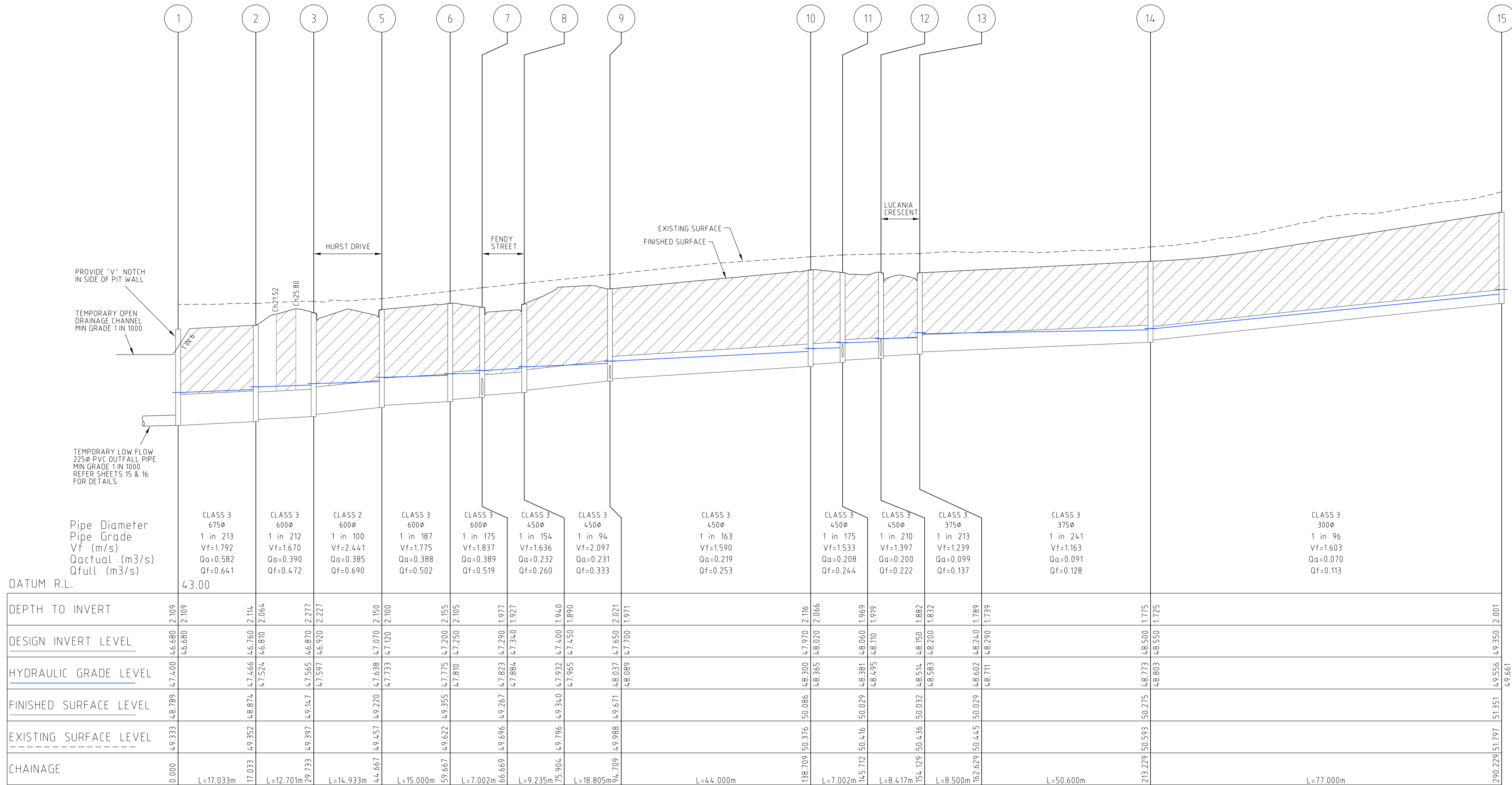
SIG GROUP  
WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No **309437R08** Rev **0**

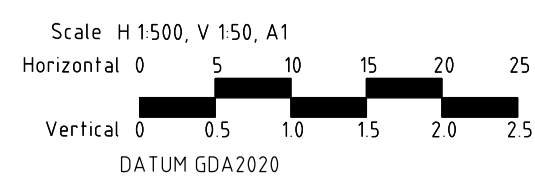




**CRUSHED ROCK BACKFILL**  
 20mm NOM SIZE Class 3 FCR Backfill  
 (98%  
 Modified Compaction) in accordance with  
 Wyndham Standard Drawing SD6-10A



Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22



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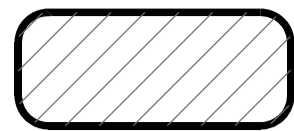


Designed  
**R. WEINBER**  
 Authorised

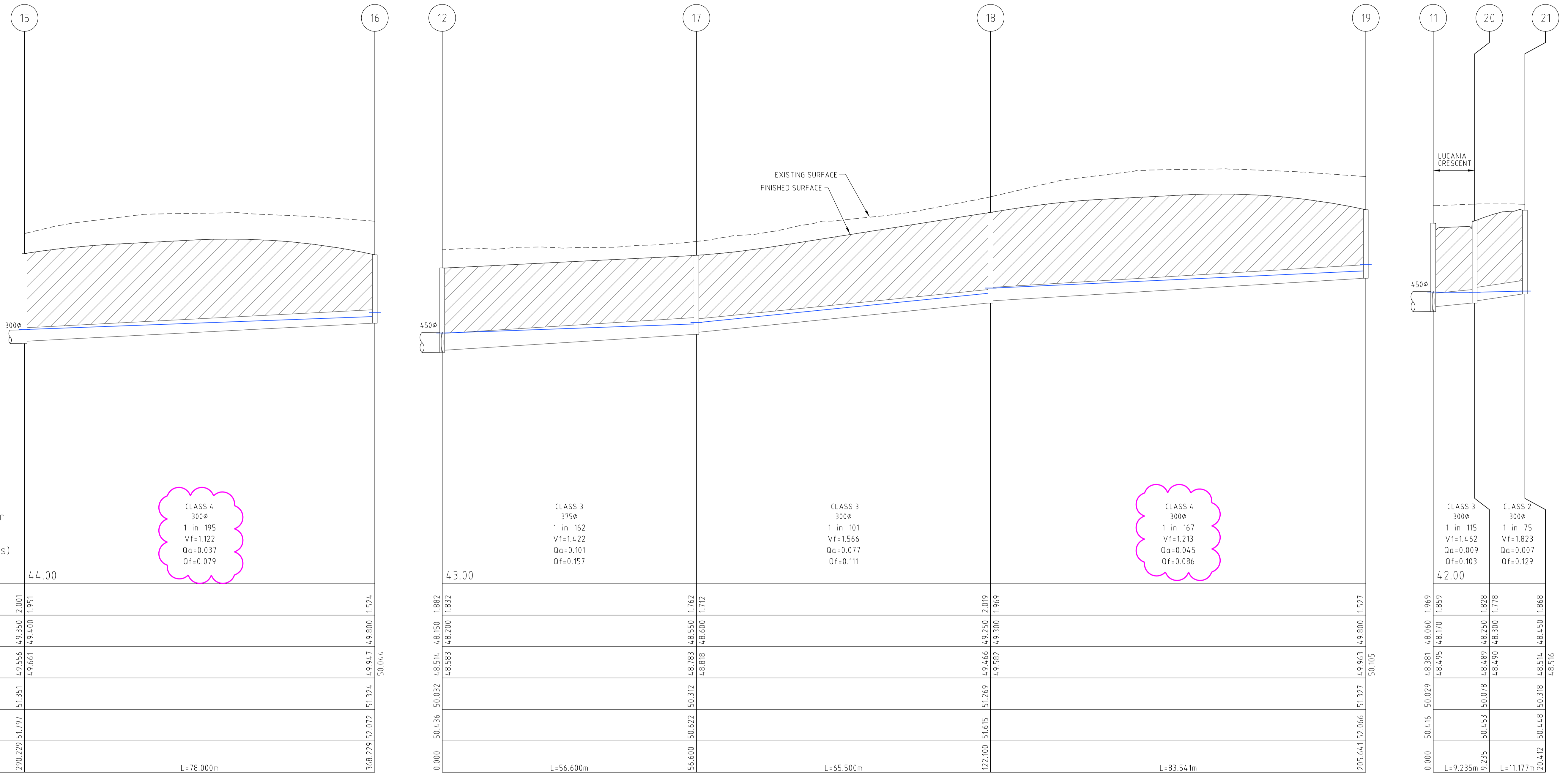
Checked  
 Date  
 03-06-2022

**HARLOW ESTATE**  
**STAGE 1**  
**DRAINAGE LONG SECTION**  
**SHEET 1 OF 4**  
 SIG GROUP  
 WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No **309437R09** Rev **0**



**CRUSHED ROCK BACKFILL**  
 20mm NOM SIZE Class 3 FCR Backfill  
 (98%  
 Modified Compaction) in accordance with  
 Wyndham Standard Drawing SD6-10A



Pipe Diameter  
 Pipe Grade  
 Vf (m/s)  
 Qactual (m3/s)  
 Qfull (m3/s)

CLASS 4  
 300φ  
 1 in 195  
 Vf=1.122  
 Qa=0.037  
 Qf=0.079

CLASS 3  
 375φ  
 1 in 162  
 Vf=1.422  
 Qa=0.101  
 Qf=0.157

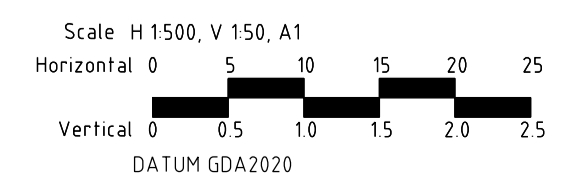
CLASS 3  
 300φ  
 1 in 101  
 Vf=1.566  
 Qa=0.077  
 Qf=0.111

CLASS 4  
 300φ  
 1 in 167  
 Vf=1.213  
 Qa=0.045  
 Qf=0.086

CLASS 3  
 300φ  
 1 in 115  
 Vf=1.462  
 Qa=0.009  
 Qf=0.103

CLASS 2  
 300φ  
 1 in 75  
 Vf=1.823  
 Qa=0.007  
 Qf=0.129

Rev	Amendments	Approved	Date
2	300φ RCP, PITS 15 TO 16 CLASS 4 - PITS 18 TO 19 CLASS 4	M.R	13/10/22
1	300φ RCP, PITS 15 TO 16 CLASS 6 - PITS 18 TO 19 CLASS 10	M.R	08/09/22
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22

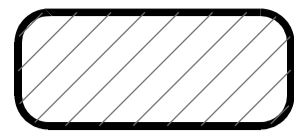


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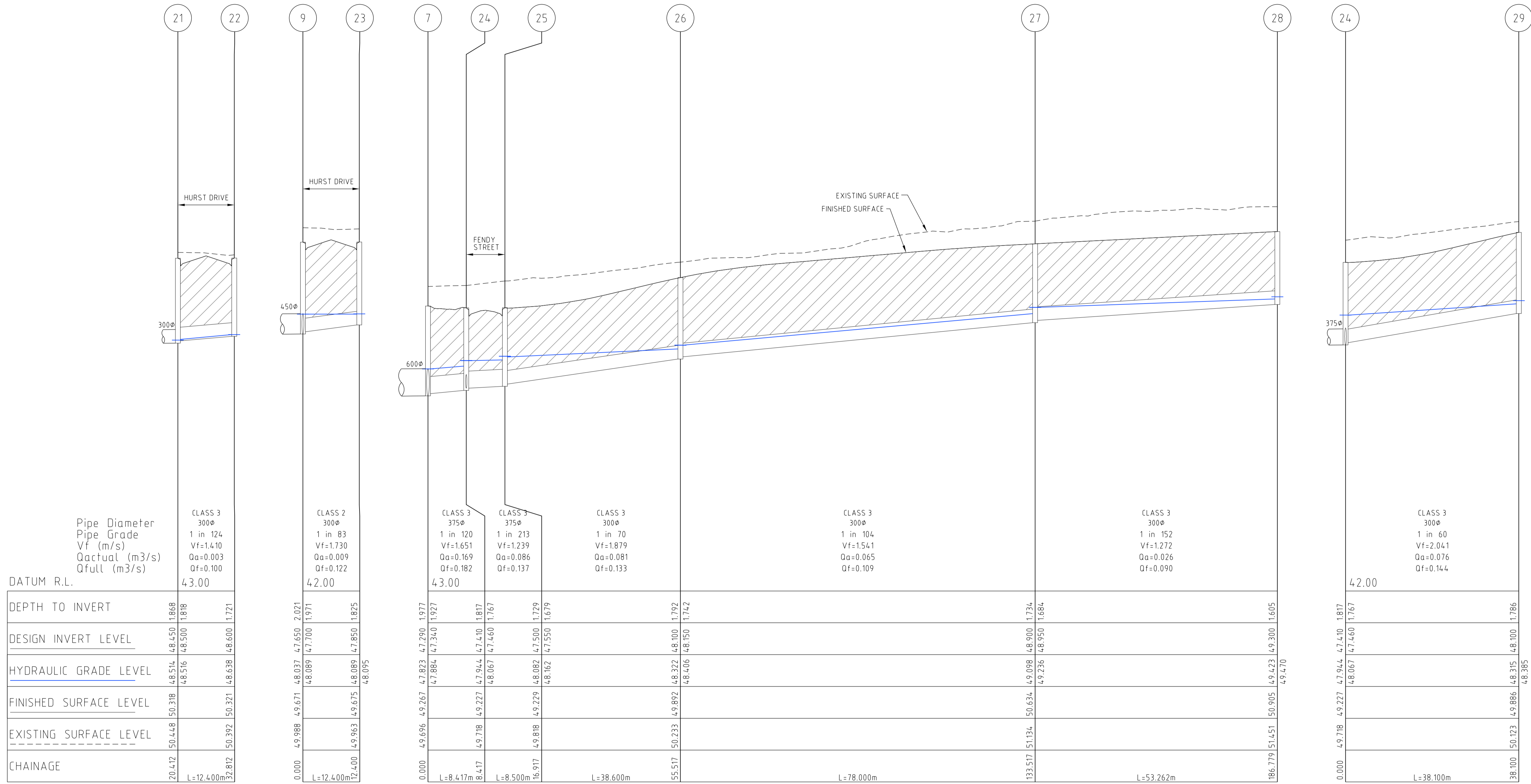
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 spiire.com.au ABN 55 050 029 635

**Harlow**  
 T A R N E I T  
 Designed R. WEINBER Checked  
 Authorised Date 03-06-2022

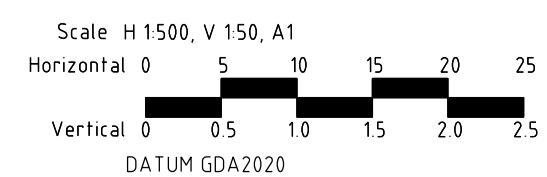
**HARLOW ESTATE**  
**STAGE 1**  
**DRAINAGE LONG SECTION**  
**SHEET 2 OF 4**  
 SIG GROUP  
 WYNDHAM CITY COUNCIL  
**CONSTRUCTION** Drg No 309437R10 Rev 2



**CRUSHED ROCK BACKFILL**  
 20mm NOM SIZE Class 3 FCR Backfill  
 (98% Modified Compaction) in accordance with  
 Wyndham Standard Drawing SD6-10A



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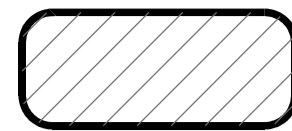


Designed  
**R. WEINBER**  
 Authorised

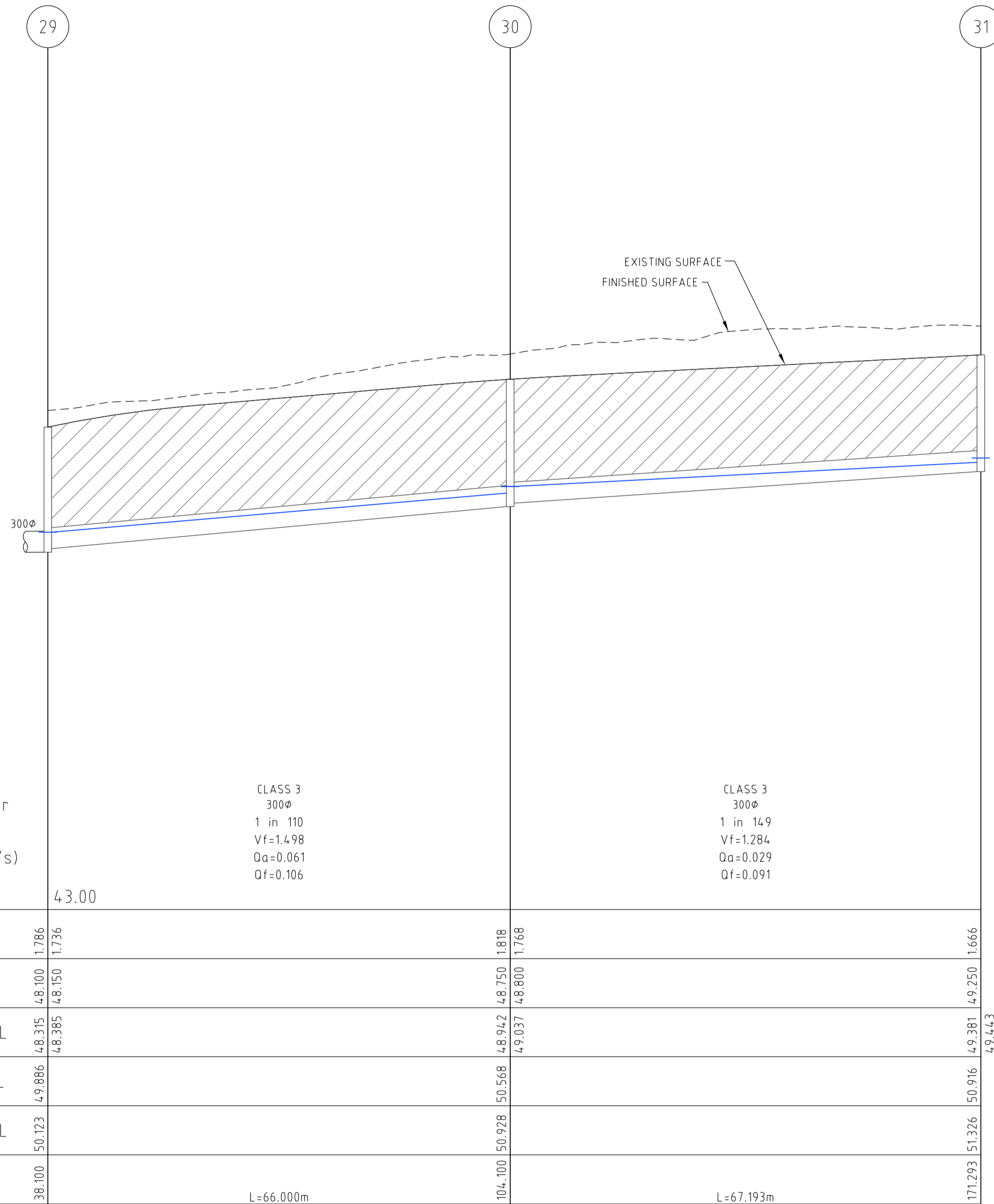
Checked  
 Date  
 03-06-2022

**HARLOW ESTATE  
 STAGE 1  
 DRAINAGE LONG SECTION  
 SHEET 3 OF 4**  
 SIG GROUP  
 WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No **309437R11** Rev **0**



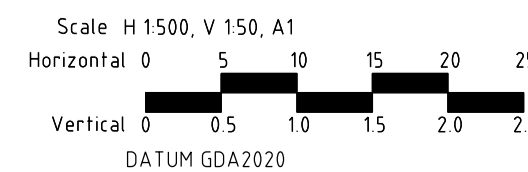
CRUSHED ROCK BACKFILL  
20mm NOM SIZE Class 3 FCR Backfill  
(98%  
Modified Compaction) in accordance with  
Wyndham Standard Drawing SD6-10A



### DRAINAGE PIT SCHEDULE

PIT NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT		REMARKS
		LENGTH	WIDTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
1	JUNCTION PIT	900	900	675	46.680	225	46.630	48.789	2.109	REFER DRAWING - EDCM 605 PROVIDE "V" NOTCH IN EAST WALL TEMPORARY 225 PVC OUTLET
2	SIDE ENTRY PIT GRATED	900	1050	600	46.810	675	46.760	48.874	2.114	PROVIDE 450 DIA STUB SOUTH WALL
3	SIDE ENTRY PIT GRATED	900	1050	600	46.920	600	46.870	49.147	2.277	REFER DRAWING - EDCM 601 & 605
5	JUNCTION PIT	900	900	600	47.120	600	47.070	49.220	2.150	REFER DRAWING - EDCM 605 PROVIDE 300 DIA STUB SOUTH WALL
6	JUNCTION PIT	900	900	600	47.250	600	47.200	49.355	2.155	REFER DRAWING - EDCM 605
7	SIDE ENTRY PIT GRATED	900	900	450	47.340	600	47.290	49.267	1.977	REFER DRAWING - EDCM 601 & 605 (PROVIDE CLASS D HEAVY DUTY COVER)
8	SIDE ENTRY PIT GRATED	900	900	450	47.450	450	47.400	49.340	1.940	REFER DRAWING - EDCM 601 & 605 (PROVIDE CLASS D HEAVY DUTY COVER)
9	SIDE ENTRY PIT GRATED	900	900	450	47.700	450	47.650	49.671	2.021	REFER DRAWING - EDCM 601 & 605
10	JUNCTION PIT	900	900	450	48.020	450	47.970	50.086	2.116	REFER DRAWING - EDCM 605
11	SIDE ENTRY PIT GRATED	900	900	450	48.110	450	48.060	50.029	1.969	REFER DRAWING - EDCM 601 & 605 (PROVIDE CLASS D HEAVY DUTY COVER)
12	SIDE ENTRY PIT GRATED	900	600	375	48.200	450	48.150	50.032	1.882	REFER DRAWING - EDCM 601 & 605
13	SIDE ENTRY PIT GRATED	900	600	375	48.290	375	48.240	50.029	1.789	REFER DRAWING - EDCM 601 & 605
14	SIDE ENTRY PIT GRATED	900	600	300	48.550	375	48.500	50.275	1.775	REFER DRAWING - EDCM 601 & 605
15	SIDE ENTRY PIT GRATED	900	600	300	49.400	300	49.350	51.351	2.001	REFER DRAWING - EDCM 601 & 605
16	SIDE ENTRY PIT GRATED	900	600	300	48.600	300	48.550	51.324	1.524	REFER DRAWING - EDCM 601 & 605
17	SIDE ENTRY PIT GRATED	900	600	300	48.600	375	48.550	50.312	1.762	REFER DRAWING - EDCM 601 & 605
18	SIDE ENTRY PIT GRATED	900	600	300	49.300	300	49.250	51.269	2.019	REFER DRAWING - EDCM 601 & 605
19	SIDE ENTRY PIT GRATED	900	600	300	48.300	300	48.250	51.327	1.527	REFER DRAWING - EDCM 601 & 605
20	SIDE ENTRY PIT GRATED	900	600	300	48.300	300	48.250	50.078	1.828	REFER DRAWING - EDCM 601 & 605 (PROVIDE CLASS D HEAVY DUTY COVER)
21	SIDE ENTRY PIT GRATED	900	600	300	48.500	300	48.450	50.318	1.868	REFER DRAWING - EDCM 601 & 605
22	SIDE ENTRY PIT GRATED	900	600	300	48.600	300	48.550	50.321	1.721	REFER DRAWING - EDCM 601 & 605
23	SIDE ENTRY PIT GRATED	900	600	300	47.850	300	47.800	49.675	1.825	REFER DRAWING - EDCM 601 & 605
24	SIDE ENTRY PIT GRATED	900	600	375	47.460	375	47.410	49.227	1.817	REFER DRAWING - EDCM 601 & 605
25	SIDE ENTRY PIT GRATED	900	600	300	47.550	375	47.500	49.229	1.729	REFER DRAWING - EDCM 601 & 605
26	SIDE ENTRY PIT GRATED	900	600	300	48.150	300	48.100	49.892	1.792	REFER DRAWING - EDCM 601 & 605
27	SIDE ENTRY PIT GRATED	900	600	300	48.950	300	48.900	50.634	1.734	REFER DRAWING - EDCM 601 & 605
28	SIDE ENTRY PIT GRATED	900	600	300	48.150	300	48.100	50.905	1.605	REFER DRAWING - EDCM 601 & 605
29	SIDE ENTRY PIT GRATED	900	600	300	48.150	300	48.100	49.886	1.786	REFER DRAWING - EDCM 601 & 605
30	SIDE ENTRY PIT GRATED	900	600	300	48.800	300	48.750	50.568	1.818	REFER DRAWING - EDCM 601 & 605
31	SIDE ENTRY PIT GRATED	900	600	300	48.800	300	48.750	50.916	1.666	REFER DRAWING - EDCM 601 & 605

Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22



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Designed  
R. WEINBER  
Checked  
Date  
03-06-2022  
Authorised

HARLOW ESTATE  
STAGE 1  
DRAINAGE LONG SECTION  
SHEET 4 OF 4  
SIG GROUP  
WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No 309437R12 Rev 0

DESIGN PAVEMENT PROFILE FOR CONNECTOR STREET

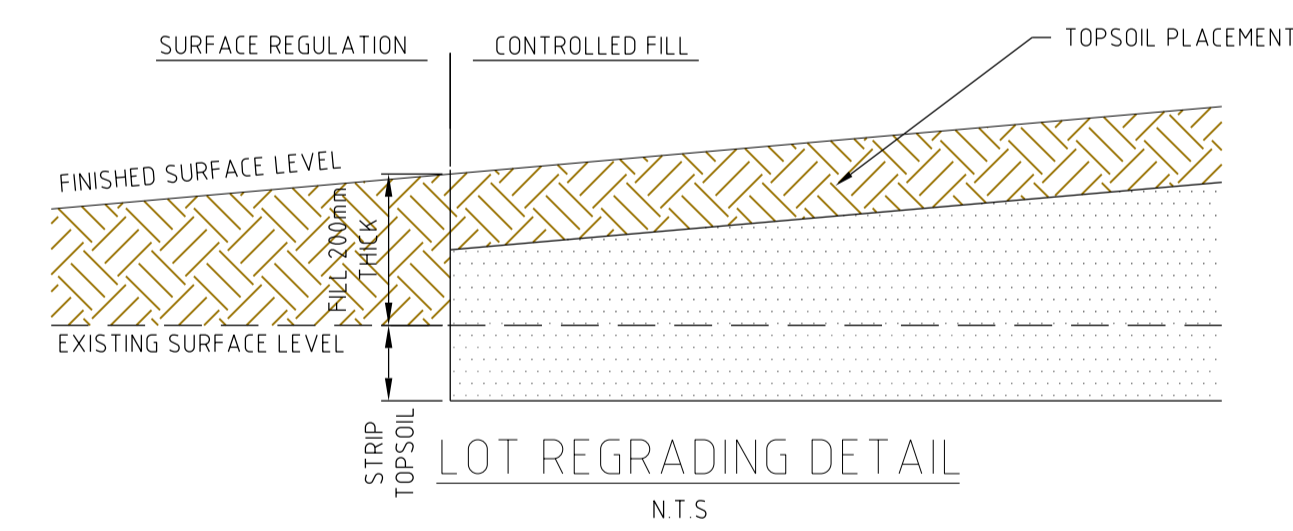
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		CONNECTOR STREET
A	ASPHALT WEARING COURSE VicRoads Size 14mm Type H, Class 320 binder	40
B	ASPHALT INTERMEDIATE COURSE VicRoads Size 20mm Type SI, Class 320 binder	75
C	ASPHALT BASE COURSE VicRoads Size 20mm Type SF, Class 320 binder	75
D	BITUMINOUS PRIME	nominal
UPPER PAVEMENT TOTAL		190
E	BASE VicRoads 20mm Class 2 3% Cement Treated Crushed Rock	100
F	SUBBASE VicRoads 20mm Class 3 Crushed Rock or equivalent	100
H	CAPPING LAYER Type A material - Properties CBR >10%, Swell <15 %, Permeability < 5x10 <sup>-9</sup> m/s To be Compacted in Two Layers	150
I	CONSTRUCTION LAYER Type A material - Properties CBR >10%, Swell <15 %, Permeability < 5x10 <sup>-9</sup> m/s	150
TOTAL PAVEMENT DEPTH		540

NOTE: CONNECTOR STREET  
Subgrade = Clay with design CBR of 2%

DESIGN PAVEMENT PROFILE FOR ACCESS STREET LEVEL 1

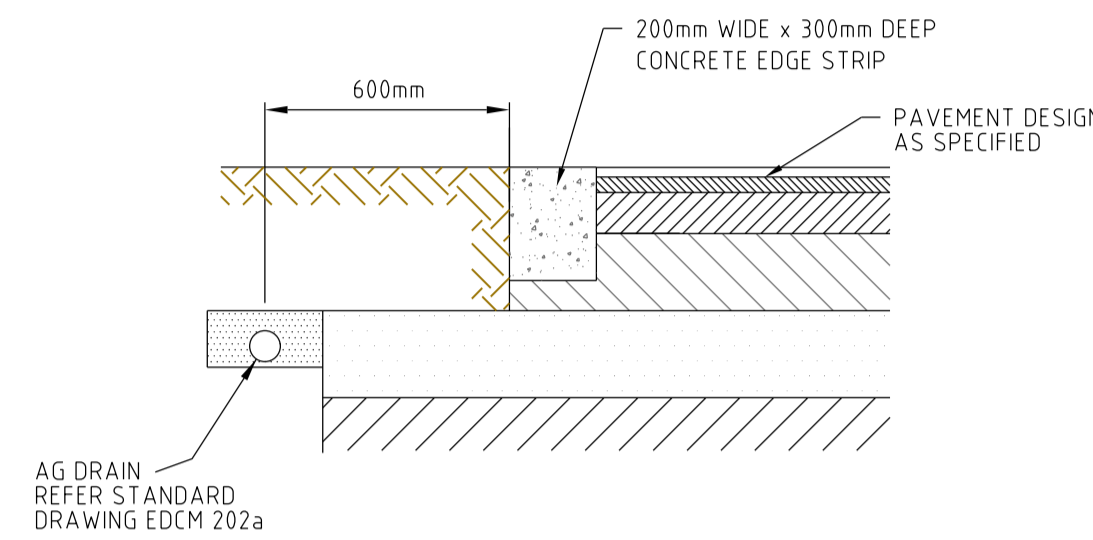
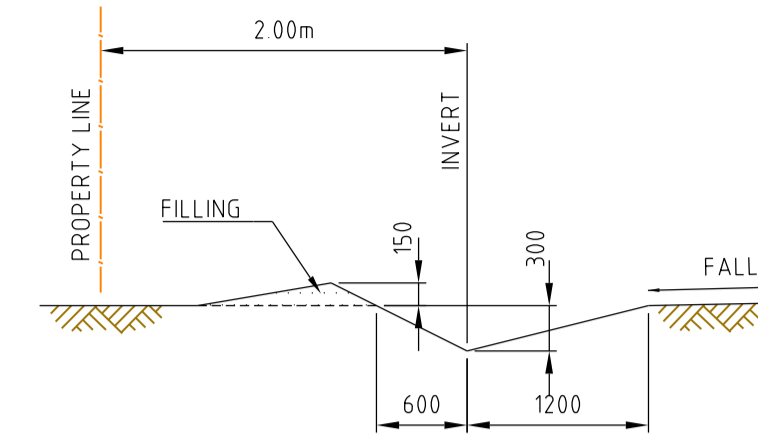
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		ACCESS STREET LVL 1
A	ASPHALT WEARING COURSE VicRoads Size 10 Type N, Class 320 binder	30
B	ASPHALT BASE COURSE VicRoads Size 10 Type N, Class 320 binder	30
C	PRIMECOAT Prime & 10mm SAMI (S 18RF)	10
D	BASE VicRoads 20mm Class 2 Fine Crushed Rock or Equivalent	130
UPPER PAVEMENT TOTAL		200
E	UPPER SUBBASE VicRoads Class 3 Crushed Rock or Equivalent	120
F	LOWER SUBBASE VicRoads Class 4 Crushed Rock or Equivalent	120
G	CAPPING LAYER Type A material - Properties CBR >10%, Swell <15 %, Permeability < 5x10 <sup>-9</sup> m/s To be Compacted in Two Layers	150
H	CONSTRUCTION LAYER Type A material - Properties CBR >10%, Swell <15 %, Permeability < 5x10 <sup>-9</sup> m/s To be Compacted in Two Layers	150
TOTAL PAVEMENT DEPTH		590

NOTE: CONNECTOR STREET  
Subgrade = Clay with design CBR of 2%

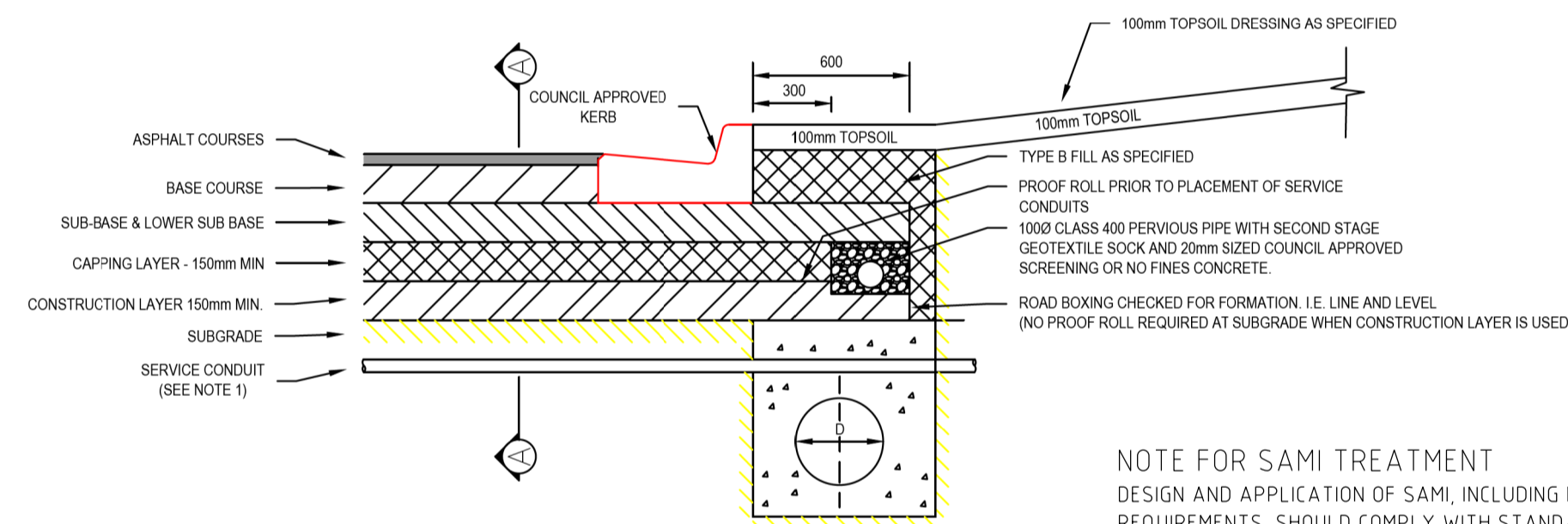


ROAD TYPE DESIGNATIONS

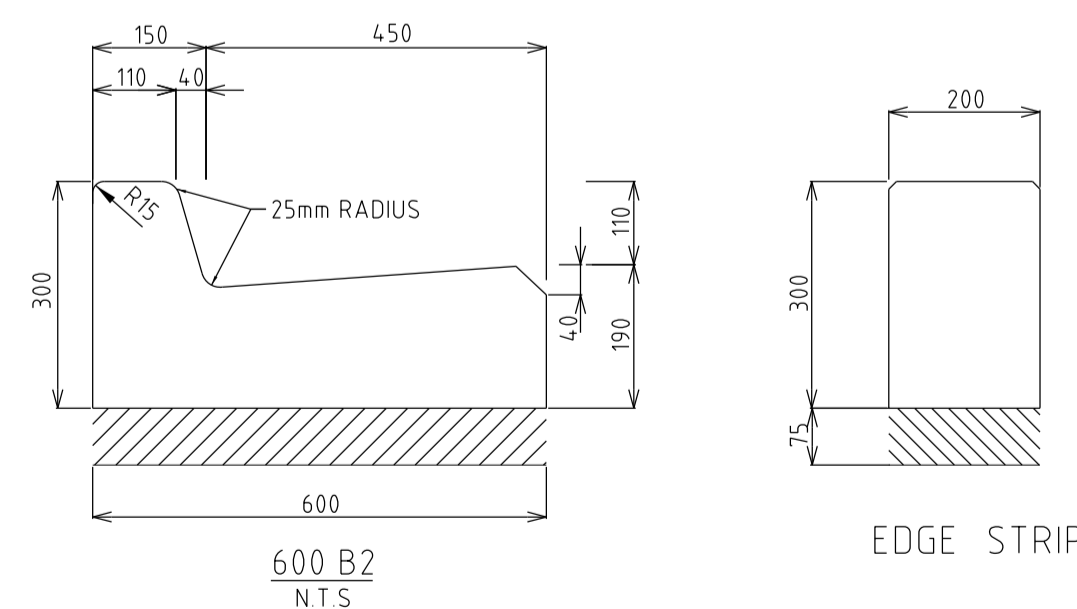
ROAD NAME	ROAD PAVEMENT TYPE
HURST DRIVE	CONNECTOR STREET
LUCANIA CRESCENT	ACCESS STREET LEVEL 1
FENDY STREET	ACCESS STREET LEVEL 1



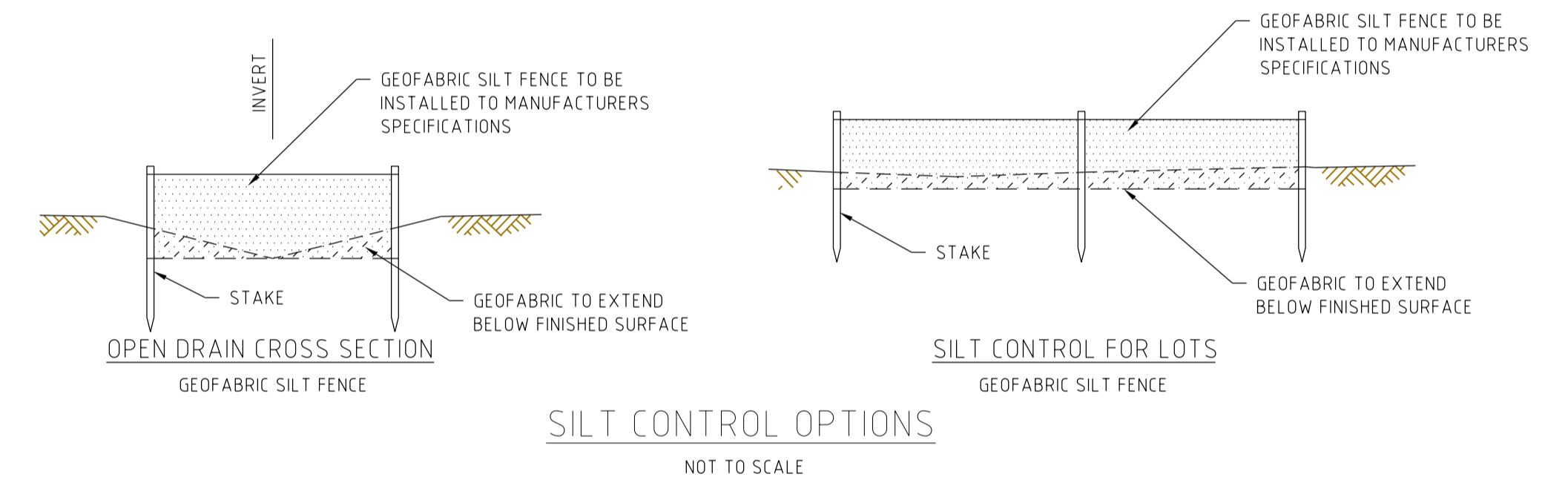
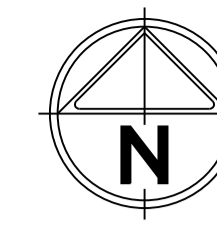
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL



NOTE FOR SAMI TREATMENT  
DESIGN AND APPLICATION OF SAMI, INCLUDING MATERIAL REQUIREMENTS, SHOULD COMPLY WITH STANDARD SPECIFICATION FOR ROADWORKS AND BRIDGEWORKS SECTION 4.08 AND THE CURRENT AUSTRROADS SPRAYED SEAL DESIGN METHOD



NOTES:  
1 ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS  
2 ALL KERBS AND KERB & CHANNEL TO HAVE 190mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.



GENERAL NOTES

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA - "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.

PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY GROUND SCIENCE PTY LTD. WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF COFFEY SERVICES AUSTRALIA PTY LTD

THE DESIGN HAS BEEN EXTRACTED FROM THE COFFEY SERVICES AUSTRALIA PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION INCLUDING PAVEMENT DESIGN, FILL SPECIFICATION AND RECOMMENDATIONS FOR SEWERS, RETAINING WALLS AND WETLANDS" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED. A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS. ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO GROUND SCIENCE PTY LTD AND SENT TO SPIIRE.

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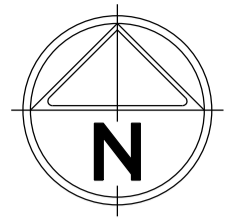


Designed  
R. WEINBER  
Checked  
Date  
03-06-2022

HARLOW ESTATE  
STAGE 1  
PAVEMENT PLAN AND TYPICAL DETAILS

SIG GROUP  
WYNDHAM CITY COUNCIL  
CONSTRUCTION  
Drg No  
309437R13  
Rev  
0

Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22



**BIKE PATH CONTRASTING SURFACE COLOUR**  
 FOR ENHANCED VISIBILITY AT ALL ROAD CROSSINGS AND DRIVEWAY CROSSINGS AS SHOWN USE GREEN EPOXY MODIFIED ACEYLIC COATING WITH A NON SLIP SURFACE.

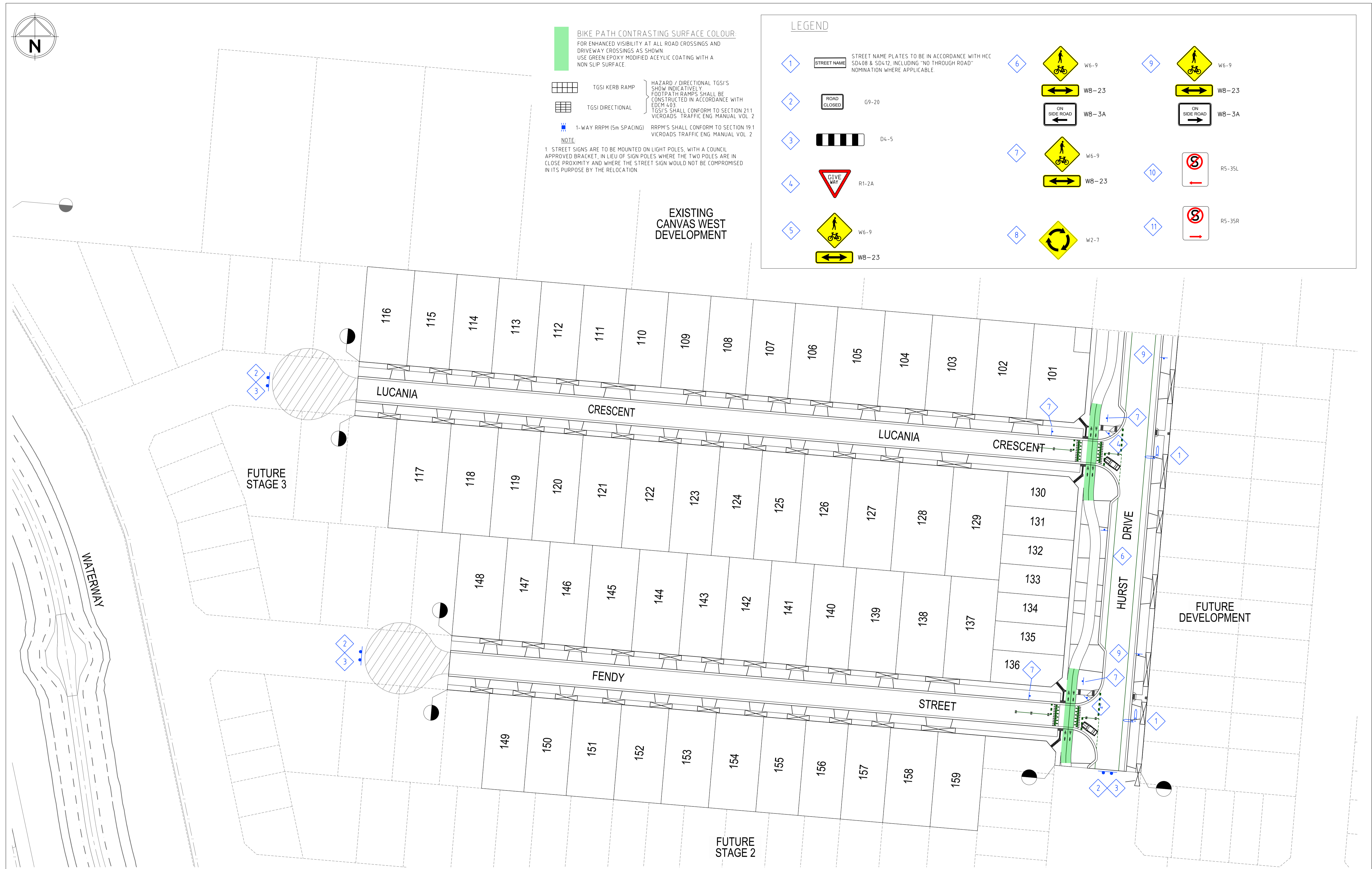
TGSI KERB RAMP  
 TGSI DIRECTIONAL  
 1-WAY RRP (5m SPACING)  
 HAZARD / DIRECTIONAL TGSIS SHOW INDICATIVELY FOOTPATH RAMP SHALL BE CONSTRUCTED IN ACCORDANCE WITH EDCM 4.03 TGSIS SHALL CONFORM TO SECTION 211 VICROADS TRAFFIC ENG MANUAL VOL 2  
 RRPMS SHALL CONFORM TO SECTION 19.1 VICROADS TRAFFIC ENG MANUAL VOL 2

**NOTE:**  
 1. STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

EXISTING CANVAS WEST DEVELOPMENT

**LEGEND**

1	STREET NAME	STREET NAME PLATES TO BE IN ACCORDANCE WITH HCC SD4-08 & SD4-12, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.	6		W6-9	9		W6-9
2	ROAD CLOSED	G9-20	7		W8-23	10		W8-23
3		D4-5	8		W8-3A	11		W8-3A
4		R1-2A	7		W6-9			
5		W6-9	7		W8-23			
		W8-23						



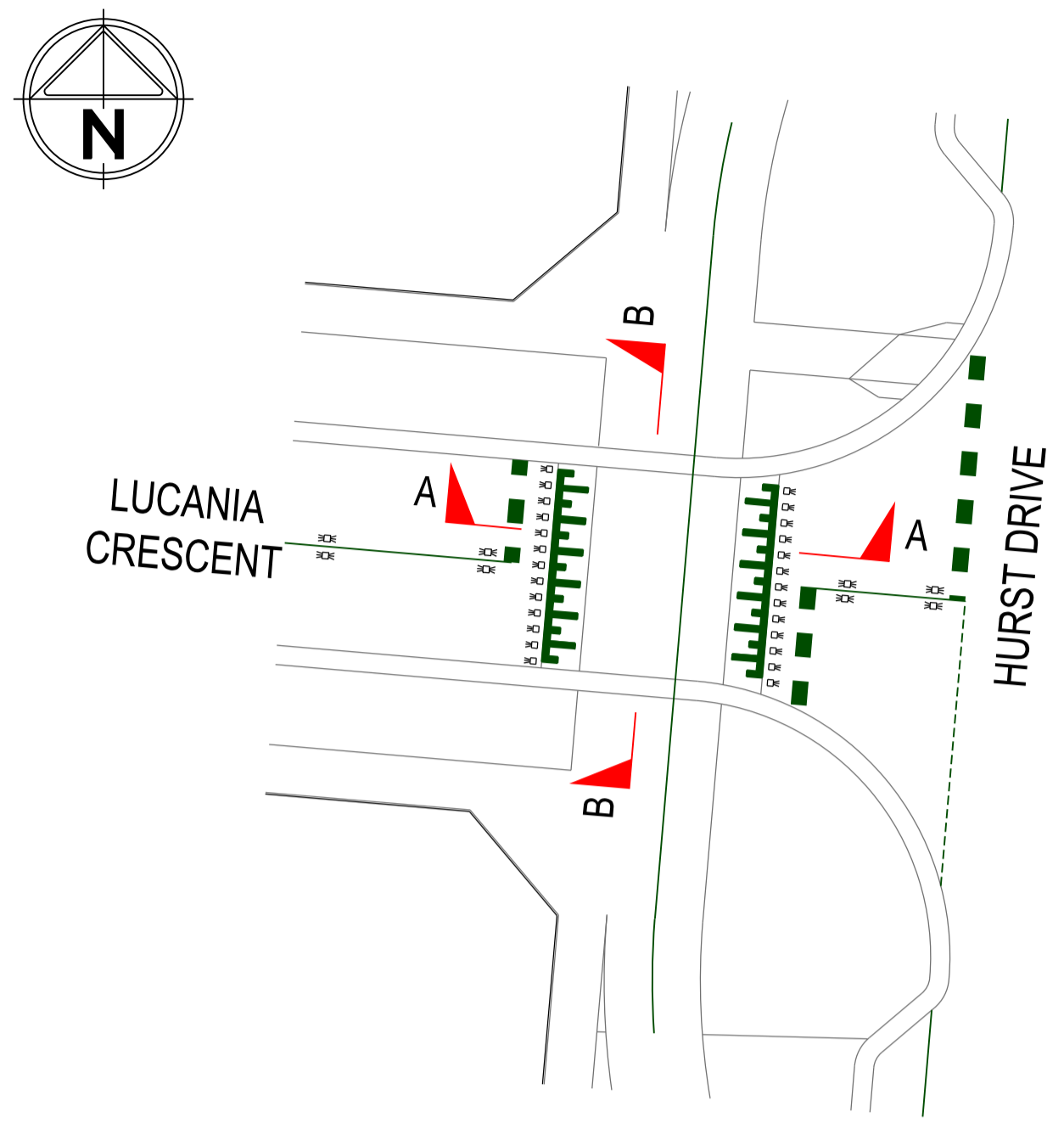
Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22

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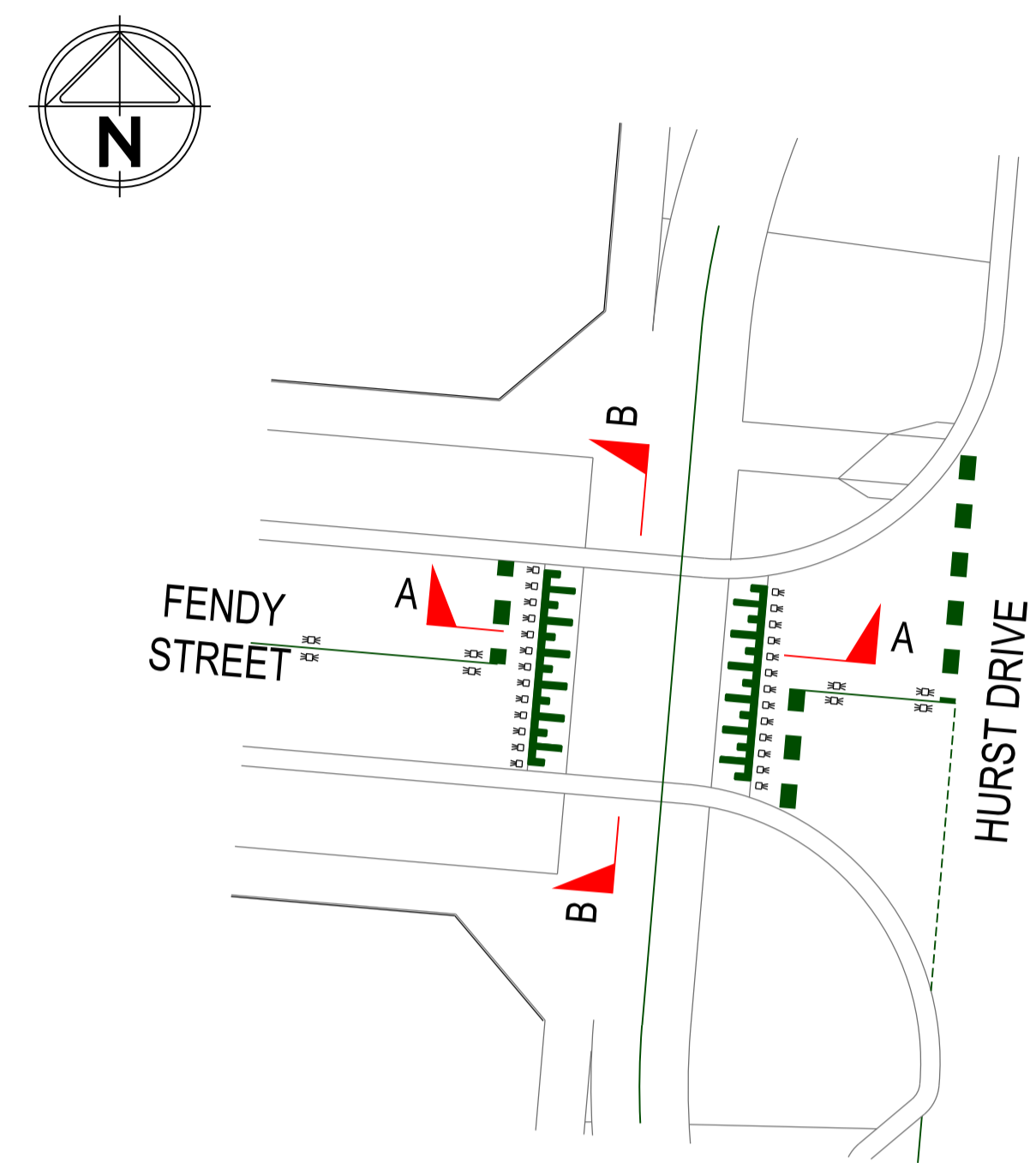
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**Harlow**  
 T A R N E I T  
 Designed R. WEINBER  
 Authorised  
 Checked  
 Date 03-06-2022

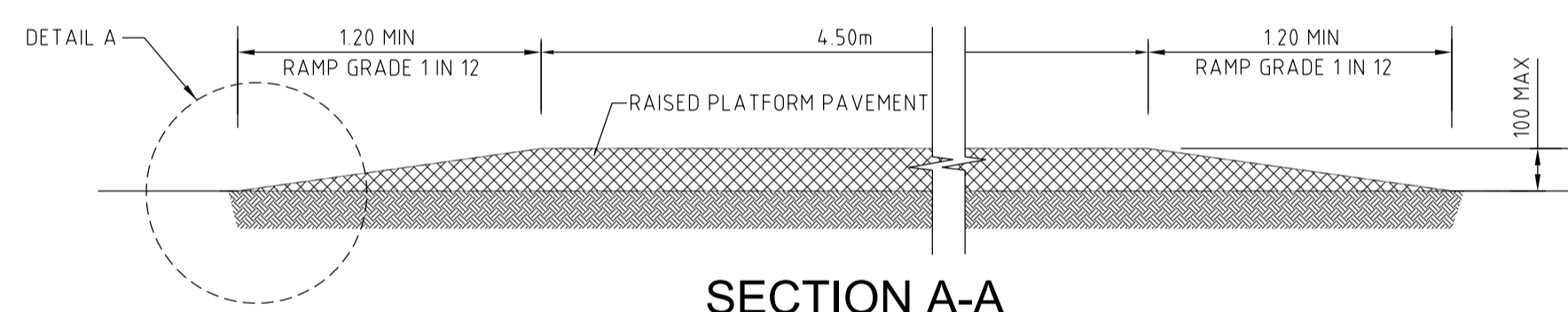
**HARLOW ESTATE**  
**STAGE 1**  
**SIGNAGE AND LINEMARKING**  
 SIG GROUP  
 WYNDHAM CITY COUNCIL  
**CONSTRUCTION** Drg No 309437R14 Rev 0



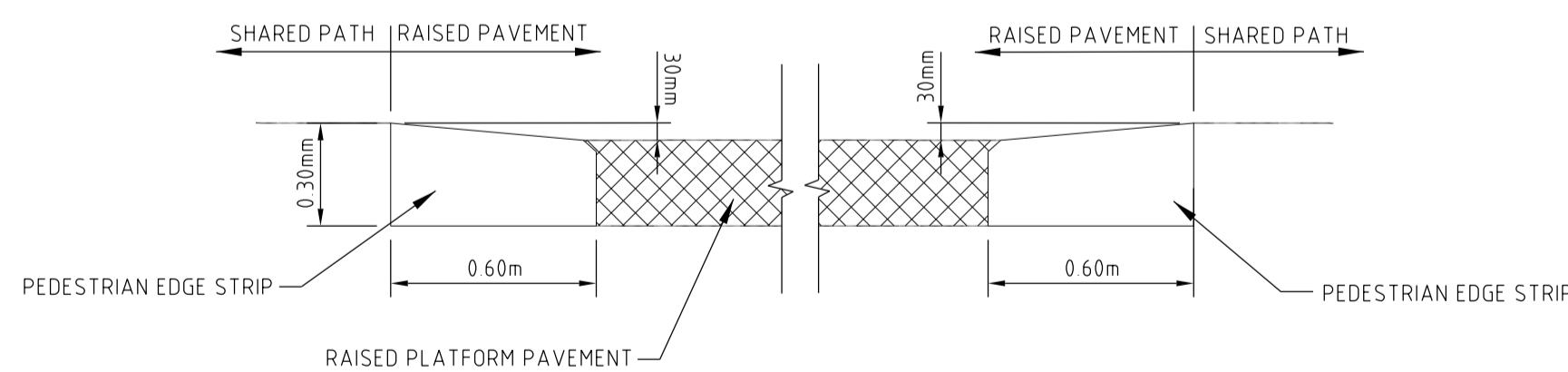
PLAN  
FLAT TOP ROAD HUMP  
(LUCANIA CRESCENT)  
SCALE 1 TO 200



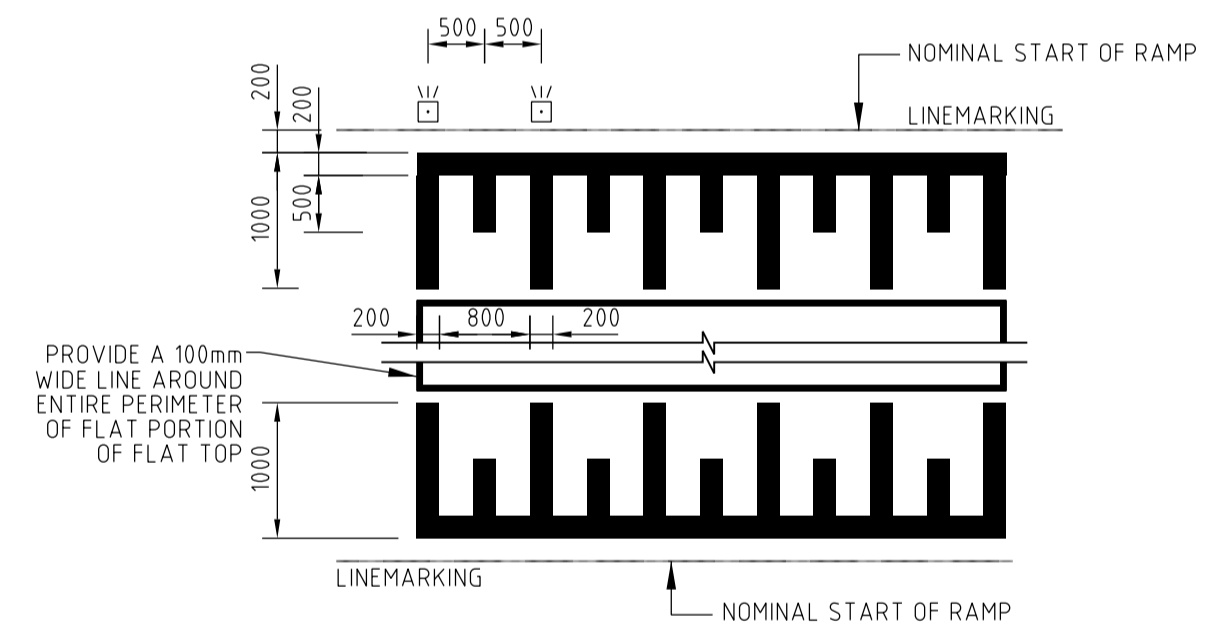
PLAN  
FLAT TOP ROAD HUMP  
(FENDY STREET)  
SCALE 1 TO 200



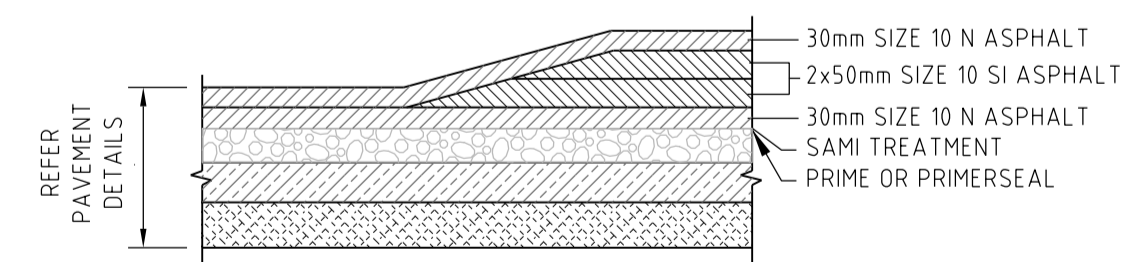
SECTION A-A  
FLAT TOP RAISED PAVEMENT  
NOT TO SCALE



SECTION B-B  
NOT TO SCALE

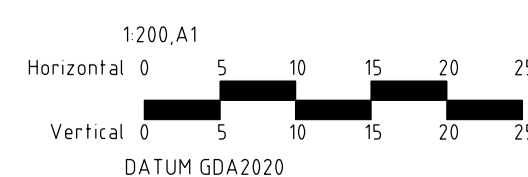


LINEMARKING DETAILS  
NOT TO SCALE



DETAIL A  
RAISED PLATFORM PROFILE  
NOT TO SCALE

Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22



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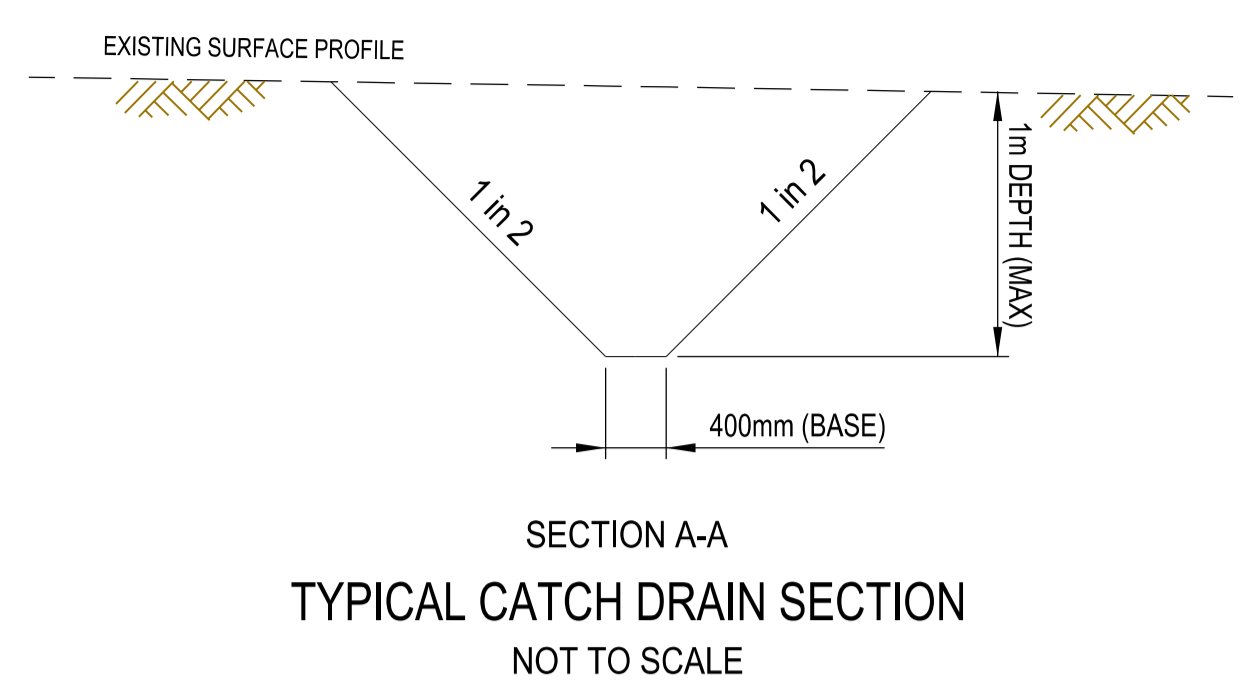
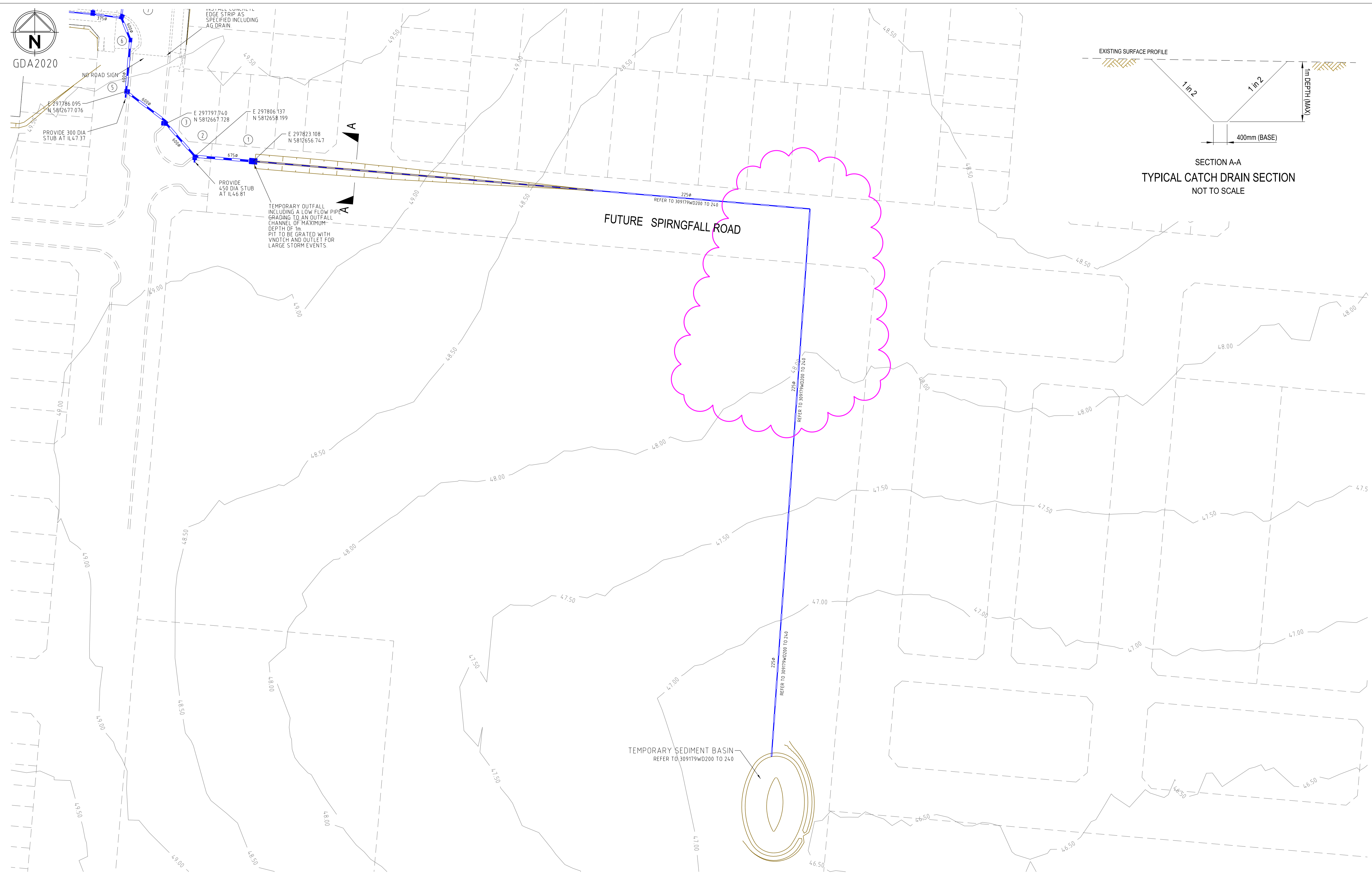
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R. WEINBER  
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Date  
03-06-2022

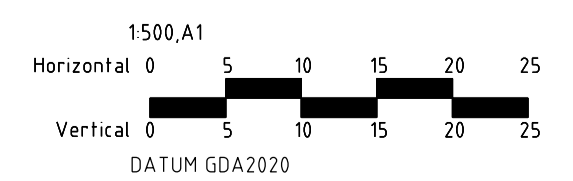
HARLOW ESTATE  
STAGE 1  
RAISED PAVEMENT DETAILS

SIG GROUP  
WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No  
309437R15 Rev  
0



Rev	Amendments	Approved	Date
3	DRAINAGE OUTFALL ALIGNMENT UPDATED,	M.R	23/03/23
2	DRAINAGE OUTFALL UPDATED, TEMPORARY SEDIMENT BASIN ADDED	M.R	08/03/23
1	DRAINAGE OUTFALL UPDATED	M.R	11/11/22
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22



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**Harlow**  
 T A R N E I T

Designed	Checked
R. WEINBER	
Authorised	Date
	03-06-2022

**HARLOW ESTATE  
 STAGE 1  
 DRAINAGE OUTFALL PLAN**

SIG GROUP  
 WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No **309437R16** Rev **3**