

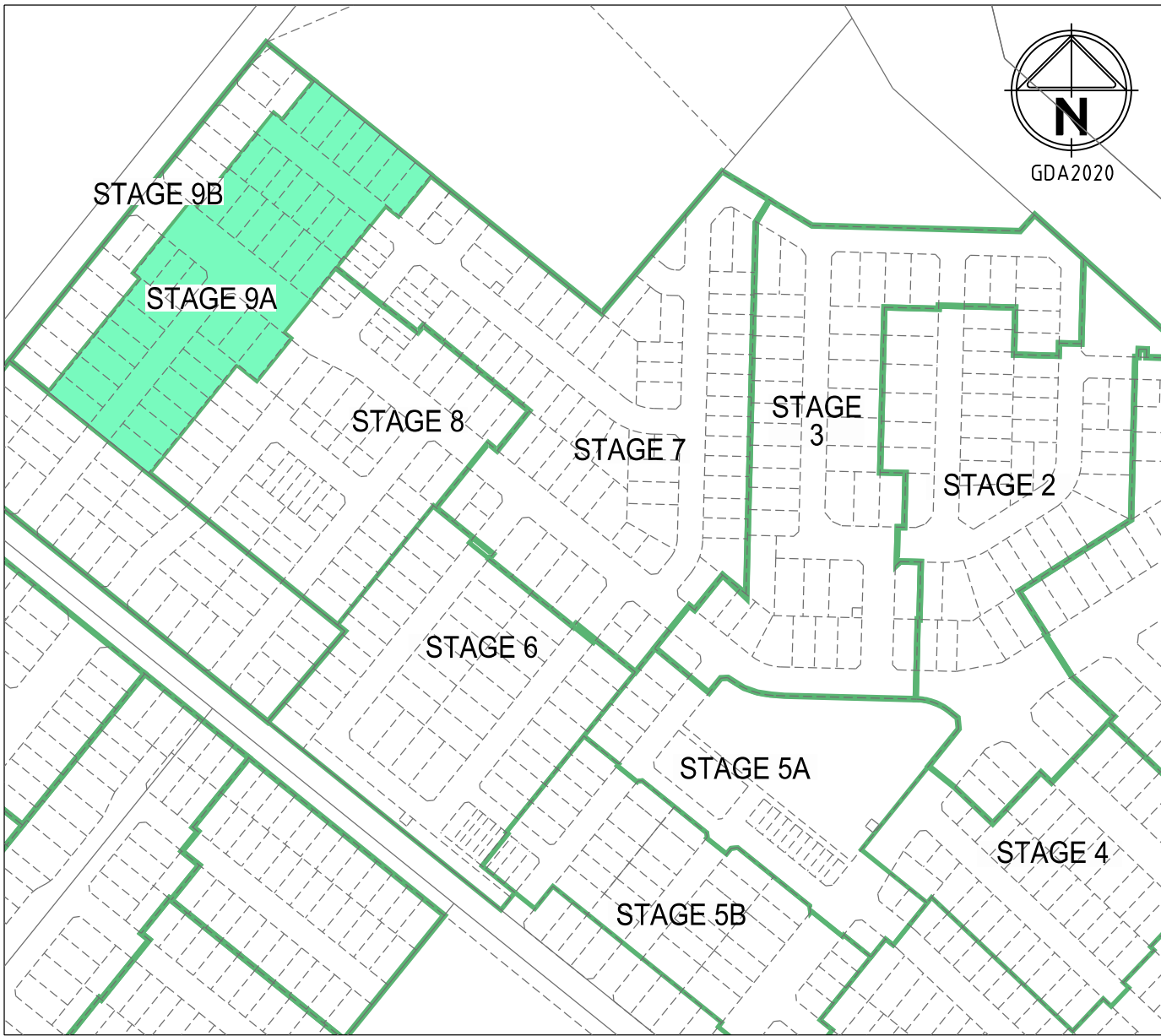
REDSTONE ESTATE STAGE 9A

VILLAWOOD PROPERTIES

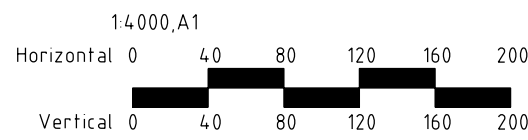
HUME COUNCIL STANDARD NOTES:

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH VPA AND HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT MEETING BEING HELD BETWEEN HUME CITY COUNCIL, THE DEVELOPER'S CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS AND PRIOR TO AN ONSITE PRECOMMENCEMENT MEETING
- PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
 - SOURCE OF QUARRY MATERIAL
 - N A T A APPROVED TEST RESULTS FOR THE F C R THAT IS TO BE USED
 - IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND OHS REGULATIONS 2007 HAVE BEEN AND WILL BE COMPLIED WITH
- ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS
- THE DISPOSAL SITE FOR SPOIL REMOVAL FROM SITE AND TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND EXPOSED/PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD)
- ALL CO-ORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA)
- THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE VPA MANUAL AND HUME CITY COUNCIL SPECIFICATIONS
- FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLAN. FILLING IS TO BE CLEAN CLAY COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A S 1289 5.11-2003
- FILLING TO COMPLY WITH A S 3798-2007, LEVEL 1 UNLESS SPECIFIED OTHERWISE
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE
- WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED
- NO TREE OR NATIVE VEGETATION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCIL'S SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNED ON SITE
- BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 15M DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA
- THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES/FENCES AND FOR ANY RETAINING WALLS OVER 10M IN HEIGHT
- ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER OR HIS REPRESENTATIVE
- PRIOR TO STATEMENT OF COMPLIANCE ALL DISTURBED AREAS (INCLUDING NATURE STRIPS, BATTERS, ALLOTMENTS WITH GRADES OF 15 AND GREATER, AND RESERVES) ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100mm LOAMY TOP SOIL FREE OF RUBBISH, DEBRIS, CLUMPS, SODS AND CLAY LUMPS) LIGHTLY COMPACTED AND HYDRO MULCHED. HYDROMULCH AND SEED MIX TO BE:
 - 40KG/HA KIKUYU
 - 200KG/HA TURF TYPE PERENNIAL RYE
 - 100KG/HA FINE LEAF FESCUE
 - 1500KG/HA OF CELLULOSE FIBRE
 - SOIL BINDER, SPECIFICALLY MANUFACTURED FOR HYDROMULCHING, USED AT MANUFACTURERS RECOMMENDED RATES (E.G. ORGANIC GAUR TACKFIRES @ 20-30 KG/HA, BASED ON SITE CONDITIONS)GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD, UNLESS OTHERWISE AGREED IN WRITING
- FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY
- ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED
- ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED
- SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20mm 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A S 1289 5.2.1-2003. ALL SERVICE CONDUITS TRENCHES UNDER FOOTPATH, VEHICULAR CROSSINGS, PARKING BAYS AND WITHIN 750MM OF PARKING BAYS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK
- ALL STORMWATER DRAINS TO BE CLASS 2 R.C. OR RIGID F.R.C. PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO & INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED. INTERLOCKING/FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.

- WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY
- ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE
- AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE
- ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 3 F.C.R. COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A S 1289 5.2.1-2003. ALL DRAINS, SEWERS, GAS & WATER MAINS LAID THROUGH THE ROAD PAVEMENT (EXCEPT CONDUITS) ARE TO BE BACKFILLED WITH 20mm CLASS 2 F.C.R. COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A S 1289 5.2.1-2003
- PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A S 1289 5.11-2003
- ALL EXISTING ASSETS AFFECTED BY THE WORKS, EG SIGNS, VEHICLE CROSSINGS, FOOTPATHS, KERB AND LINEMARKING SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE
- PRIOR TO THE COMPLETION OF THE WORKS ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A., M.F.B. & E.S.B). MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A (RED TOPPED) WHITE POST
- AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH EDM STANDARD DRAWING 202
- ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE
- ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH A S 1742 - 1, 2 & 3. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH STANDARD DRAWING SD408
- ALL LINEMARKING PAINT SHALL BE LONG LIFE TYPE IN ACCORDANCE WITH SECTION 95C OF THE HUME CITY COUNCIL SPECIFICATIONS. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGAUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL
- ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A S 1743-2001
- HOUSE DRAIN CONNECTIONS TO 150mm DIAMETER PIPES TO BE VIA A MANUFACTURED JUNCTION PIECE. 150mm DIAMETER STORMWATER PIPES ARE TO BE HEAVY DUTY SEWER GRADE PVC PIPES SHALL BE BACKFILLED WITH 10mm MINUS F.C.R. TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS
- 100mm HOUSE DRAIN CONNECTIONS TO BE LAID AT AN OFFSET OF 5.5m FROM THE LOW SIDE OF TITLE BOUNDARY ROAD FRONTAGE AND PROPERTY INLETS 1.0m FROM THE LOW SIDE OF TITLE BOUNDARY REAR EASEMENTS UNLESS OTHERWISE SHOWN
- BLASTING GENERALLY IS NOT ENCOURAGED, HOWEVER, BLASTING MAY BE REQUIRED AS A LAST RESORT DEPENDING ON GROUND CONDITIONS. COUNCIL IS TO BE NOTIFIED IN WRITING IF ANY BLASTING IS NECESSARY. RESIDENTS LIKELY TO BE AFFECTED BY THE BLASTING AND ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING PRIOR TO WORKS COMMENCING. COPIES OF THESE NOTIFICATIONS ARE TO BE SUBMITTED TO COUNCIL. RESIDENT NOTIFICATION LETTER IS TO INCLUDE BLASTING GUIDELINES, FIRING AND MISFIRE PROCEDURES AND CONTRACTOR AND CONSULTANT CONTACT NAMES AND PHONE NUMBERS. ALL BLASTING IS TO BE WITHIN THE LIMITS FOR AIR AND GROUND VIBRATION LEVELS AS SET DOWN IN A S 2187.2.1993. ALL BLASTS SHALL BE MONITORED FOR AIR AND NOISE VIBRATION AT POTENTIALLY AFFECTED RESIDENCES. "FORM A" FROM AS2187.2-1993, AND WAVE TRACE COPIES ARE TO BE SUBMITTED TO COUNCIL FOR EACH BLAST. BLASTING IS TO BE RESTRICTED TO BETWEEN 9.00am AND 3.30pm. BLASTING IS NOT TO OCCUR ON WEEKENDS OR PUBLIC HOLIDAYS. BLASTING AREA SIGNS ARE TO BE PLACED AT ALL ENTRANCES TO THE SITE
- FENCING TO BE PROVIDED ALONG LOT BOUNDARIES ABUTTING RESERVES TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY
- WHERE SODIC SOILS ARE ENCOUNTERED, SODIC SOIL INVESTIGATIONS SHOULD BE CARRIED OUT BY A QUALIFIED SOIL SCIENTIST AND THE RECOMMENDATIONS OF THE REPORT SHOULD BE APPLIED DURING ROAD & DRAINAGE DESIGN AND CONSTRUCTION



LOCALITY PLAN



DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
305920R01	FACE SHEET	1	2
305920R02	DETAIL PLAN	2	2
305920R03	CROSS SECTIONS - SACRED DRIVE	3	0
305920R04	LONGITUDINAL & CROSS SECTIONS - SACRED DRIVE	4	0
305920R05	LONGITUDINAL & CROSS SECTIONS - KLONI STREET	5	0
305920R06	LONGITUDINAL & CROSS SECTIONS - VANGEL ROAD	6	0
305920R07	INTERSECTION DETAILS	7	0
305920R08	DRAINAGE LONGSECTIONS - SHEET 1 OF 3	8	0
305920R09	DRAINAGE LONGSECTIONS - SHEET 2 OF 3	9	0
305920R10	DRAINAGE LONGSECTIONS - SHEET 3 OF 3 & PIT SCHEDULE	10	0
305920R11	TYPICAL CROSS SECTIONS AND TYPICAL DETAILS	11	0
305920R12	PAVEMENT DETAILS	12	0
305920R13	SIGNAGE, LINEMARKING & CARPARKING PLAN	13	0
305920R14	RETAINING WALL DETAILS	14	0
305920R15	PASSIVE IRRIGATION DETAILS SHEET 1	15	0
305920R16	PASSIVE IRRIGATION DETAILS SHEET 2	16	0

SERVICES OFFSETS AND LOCATION TABLE

Location	WATER	ELECTRICITY		TELECOM
	DW	CABLES	POLE	
SACRED DRIVE	2.75 N	2.55 S	0.90 BOK	1.80 S
VANGEL ROAD	2.60 S	2.50 N	0.90 BOK	1.80 N
KLONI STREET	2.60 W	2.50 E	0.90 BOK	1.80 E

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		
COUNCIL STORMWATER DRAIN AND PIT		
STORM WATER DRAINAGE PROPERTY INLETS		
COUNCIL STORM WATER PITS		
HOUSE DRAIN		
AG DRAIN AND FLUSHER		
MWC STORM WATER DRAIN & PIT		
MWC STORM WATER PITS		
STORM WATER DRAINAGE PIT NUMBER		
GAS & WATER CONDUITS		
CONCRETE VEHICLE CROSSING		
PAVEMENT SAWCUT LINE		
RIDGE / CHANGE OF GRADE LINE		
SURFACE CONTOUR MINOR	169.00	169.00
SURFACE CONTOUR MAJOR	168.90	168.90
SURFACE LEVEL	123.45	FS124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
RETAINING WALL LEVEL (TOP/BOTTOM)	TW112.76	TW128.50 BW126.74
EARTHWORKS GRADE	1 in 150	1 in 150
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
ROAD CHAINAGES	CH116 57 (L/R)TP CH116 57	CH116 57 (L/R)TP CH116 57
LOT CHAINAGES	CH20 06	CH20 06
SETOUT POINT		
LIMIT OF WORKS		
BATTER		
EXCAVATION GREATER THAN 0.20m		
FILLING GREATER THAN 0.20m		
ROCK BEACHING		
RETAINING WALL		
FENCE - TREE PROTECTION		
FENCE - VEHICLE EXCLUSION		
FENCES		
GUARD RAIL		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE PROTECTED		
TREE TO BE REMOVED		
VEGETATION LINE		
FOOTPATH		
TACTILE GROUND SURFACE INDICATOR		
KERB TRANSITION		



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
2	DRAWING SCHEDULE UPDATED R01 & R02	M.T.S	28/02/23
1	DRAWING SCHEDULE UPDATED R01 & R02	M.T.S	15/11/22
0	CONSTRUCTION ISSUE	M.T.S	27/05/22



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ABN 55 050 029 635



Designed
R. WEINBER
Authorised
M. TOOMER-SMITH

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Checked
D CAMERON
Date
17/01/22

REDSTONE ESTATE
STAGE 9A
FACE SHEET

VILLAWOOD PROPERTIES
HUME CITY COUNCIL

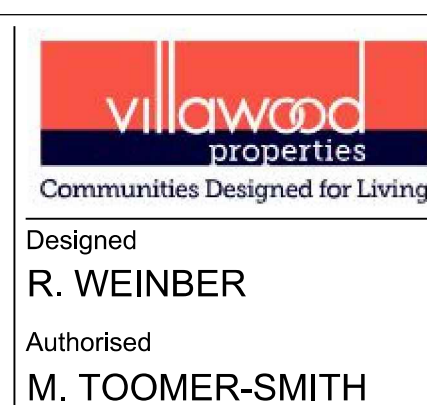
AS CONSTRUCTED Drg No **305920R01**

Rev **2**

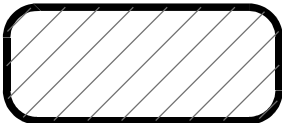


LEGEND	
DESCRIPTION	PROPOSED
<p>PSSIVE IRRIGATION TREE PIT TYPE 1 (1.5m PIT & 2.0m TRENCH)</p> <p>REFER SHEET 20 FOR DETAILS</p>	

2	LOT 904 / 905 DRIVEWAY COMBINED	M.T.S	28/02/23
1	LOT 905 DRIVEWAY COMBINED WITH 904	M.T.S	15/11/22
0	CONSTRUCTION ISSUE	M.T.S	27/05/22
Rev	Amendments	Approved	Date



REDSTONE ESTATE STAGE 9A ROAD & DRAINAGE FACE PLAN VILLAWOOD PROPERTIES HUME CITY COUNCIL		Drg No 305920R02	Rev 2
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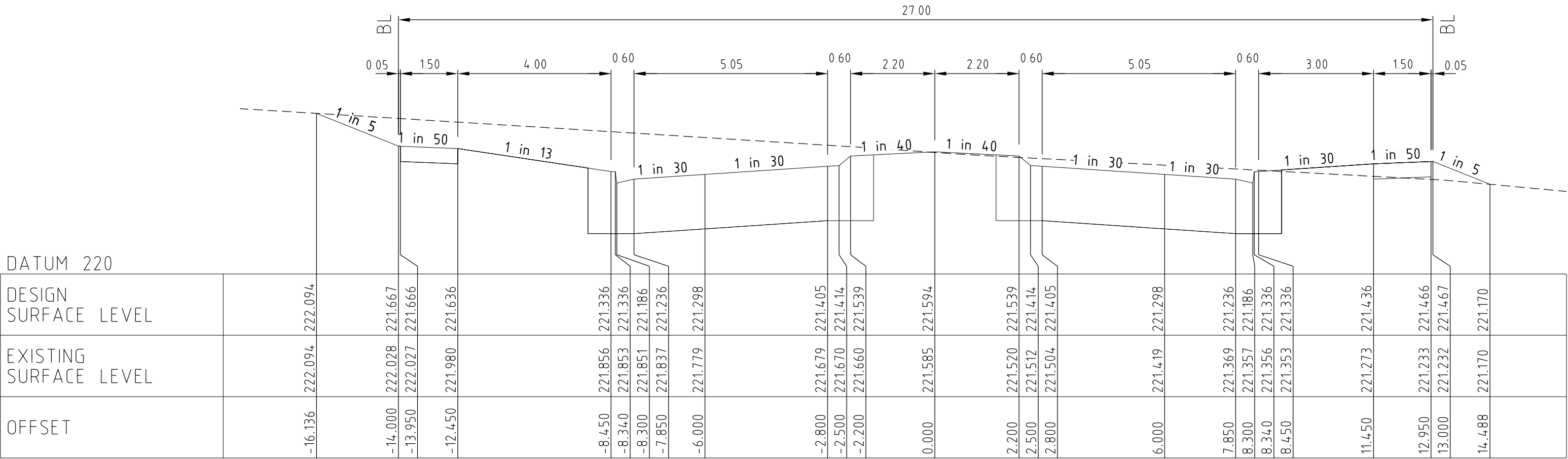


STRUCTURAL FILL
IN ACCORDANCE
WITH AS3798-2007,
LEVEL 1.

ALLOTMENT GRADE NOTE
FINISHED SURFACE GRADE VARIES
ALONG ALLOTMENT FRONTAGE, PROFILE
INDICATED THUS: LOT GRADE

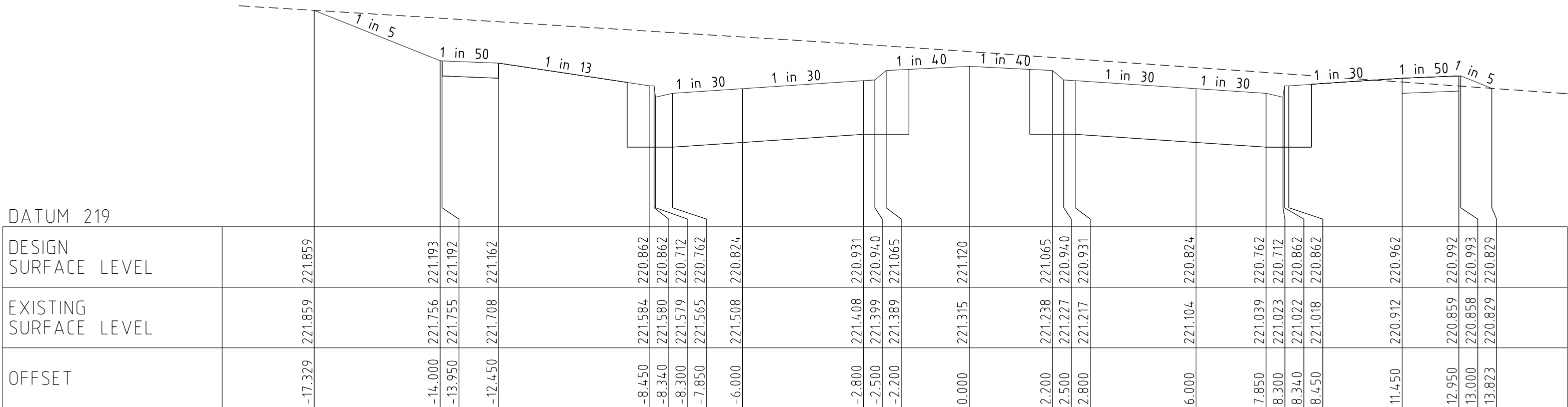
(ALLOTMENT MINIMUM GRADE 1 IN 150)

ALLOTMENT BATTER NOTE
IF NOT SHOWN FOR CLARITY
ALL BATTERS WITHIN ALLOTMENTS
TO BE GRADE 1 IN 5,
UNLESS NOTED OTHERWISE



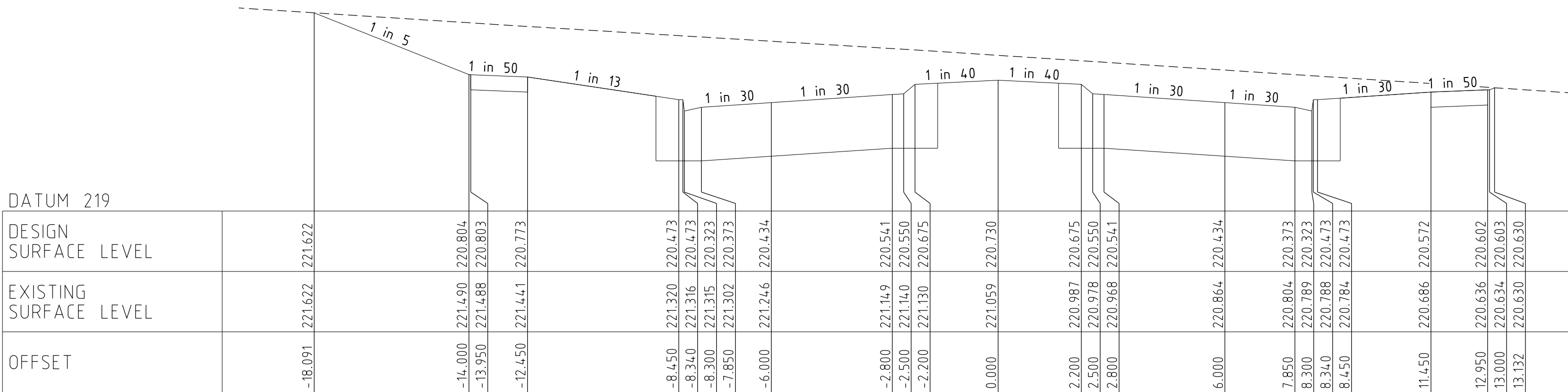
SACRED DRIVE

Ch 869.46



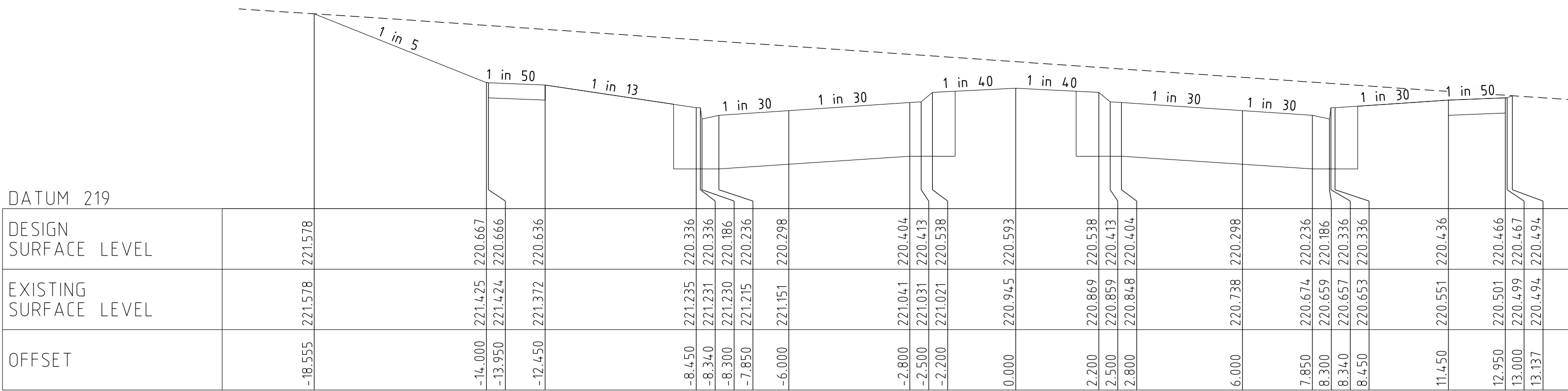
SACRED DRIVE

Ch 839.60



SACRED DRIVE

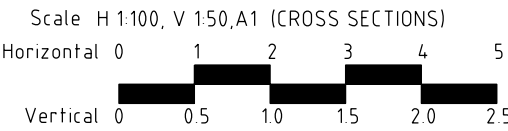
Ch 814.68



SACRED DRIVE

Ch 804.68

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Rev	Amendments	Approved	Date	



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Communities Designed for Living

Designed
R. WEINBER

Authorised
M. TOOMER-SMITH

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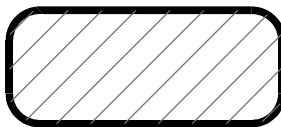
Checked
D. CAMERON

Date
17/01/22

REDSTONE ESTATE
STAGE 9A
CROSS SECTIONS
SACRED DRIVE
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No 305920R03

Rev
0



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

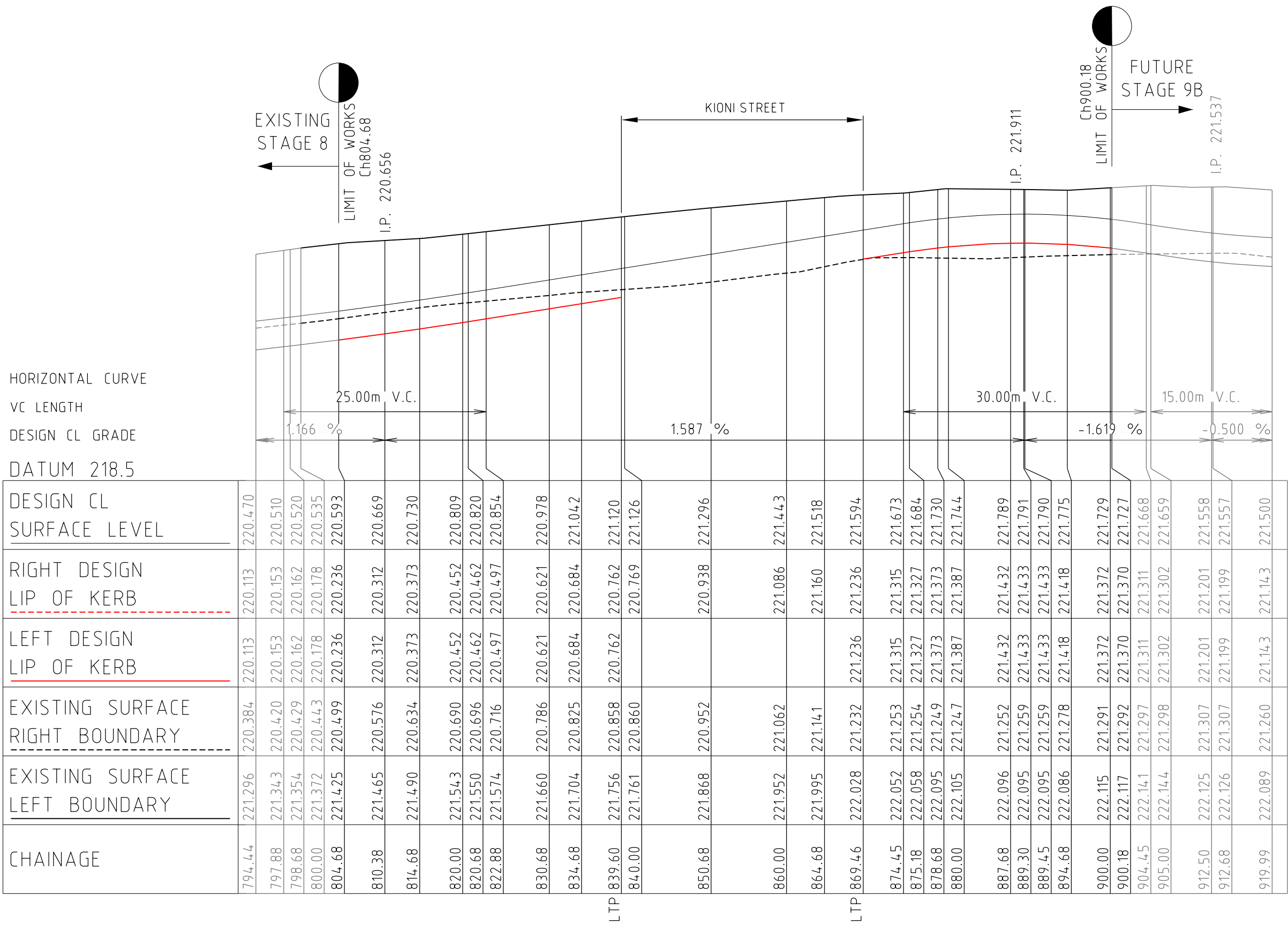
ALLOTMENT GRADE NOTE

FINISHED SURFACE GRADE VARIES
ALONG ALLOTMENT FRONTAGE, PROFILE
INDICATED THUS: LOT GRADE

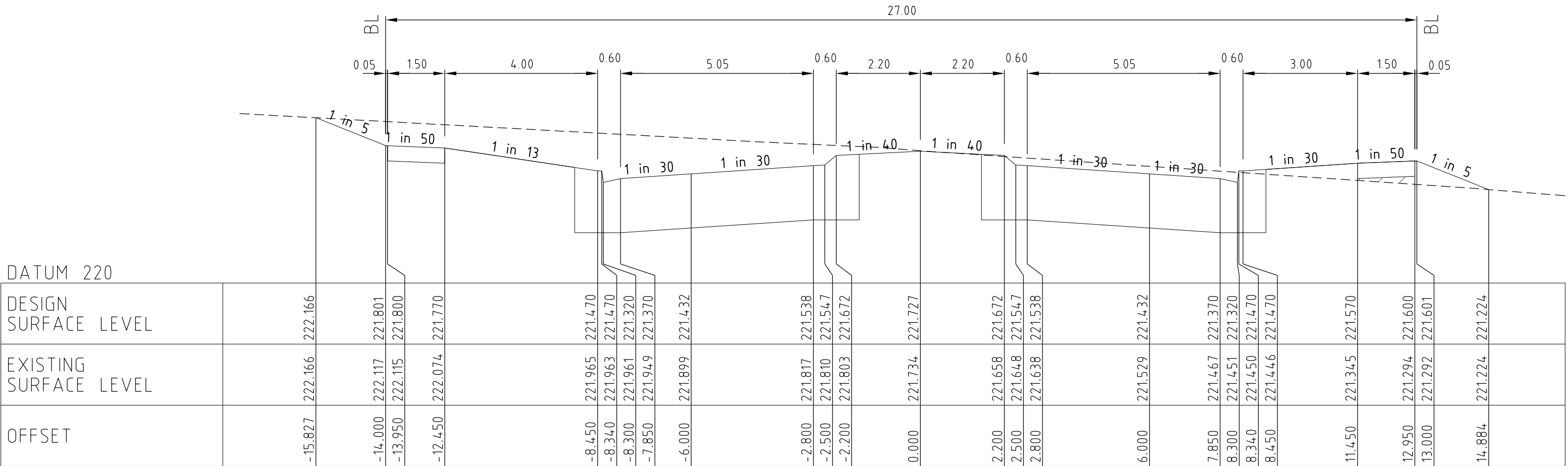
(ALLOTMENT MINIMUM GRADE 1 IN 150)

ALLOTMENT BATTER NOTE

IF NOT SHOWN FOR CLARITY
ALL BATTERS WITHIN ALLOTMENTS
TO BE GRADE 1 IN 5,
UNLESS NOTED OTHERWISE

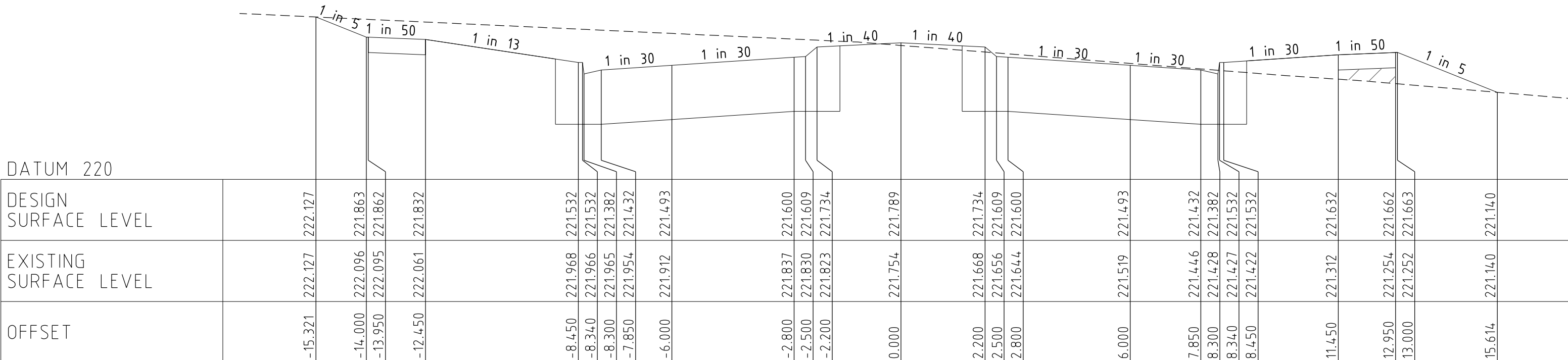


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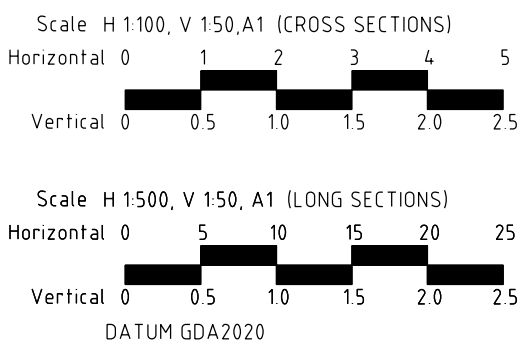
Ch 900.18



SACRED DRIVE

Ch 887.68

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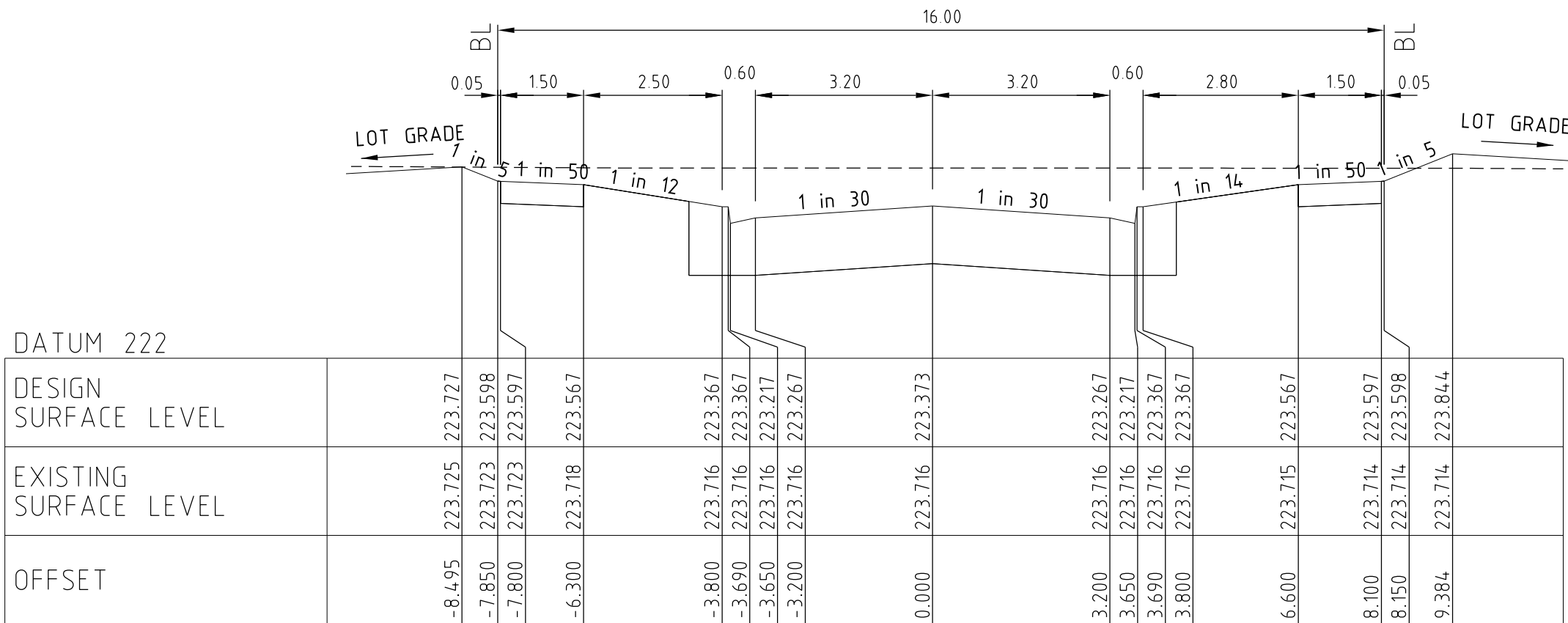
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Date
17/01/22

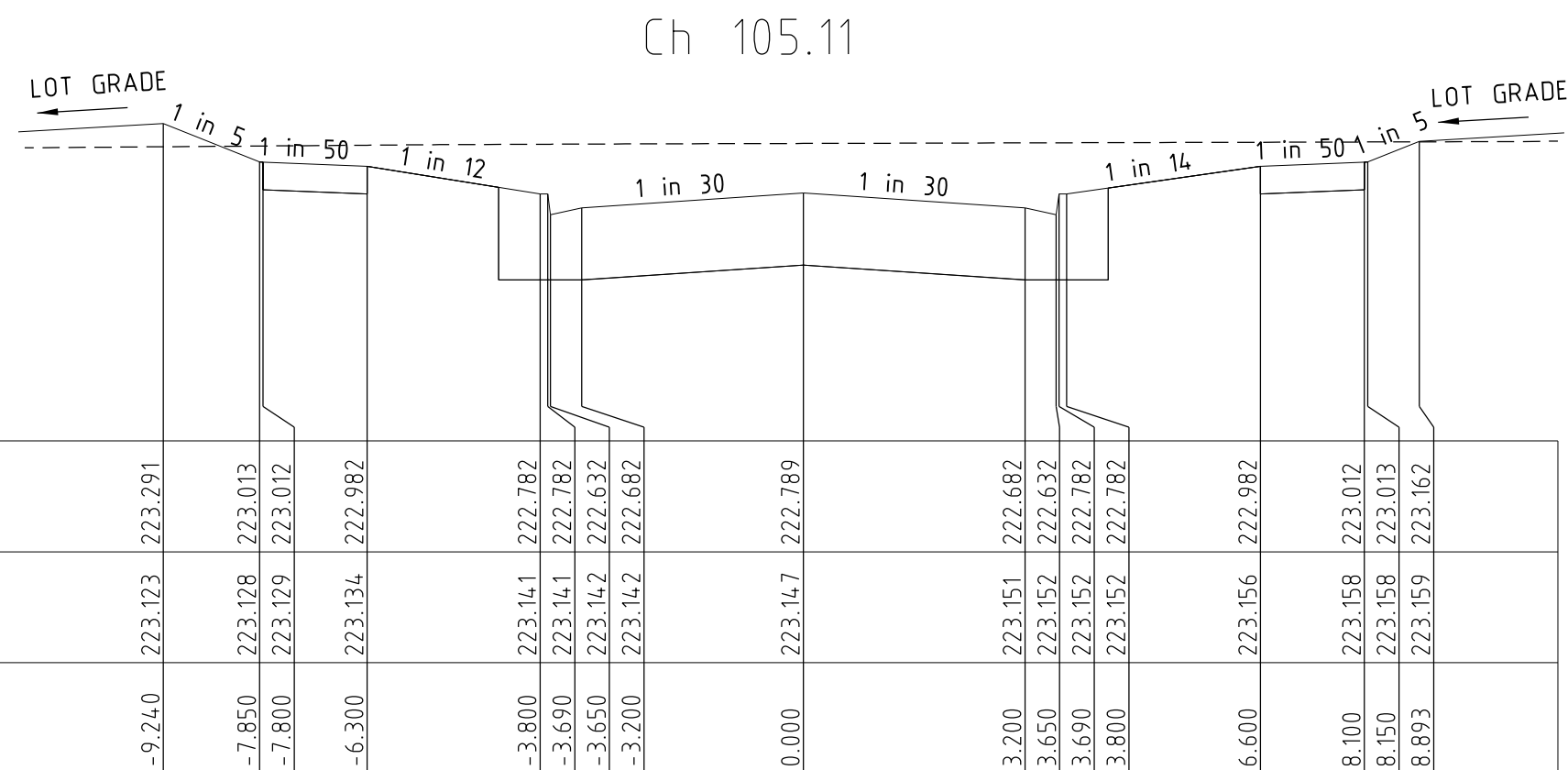
REDSTONE ESTATE
STAGE 9A
LONGITUDINAL & CROSS SECTIONS
SACRED DRIVE
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No
305920R04

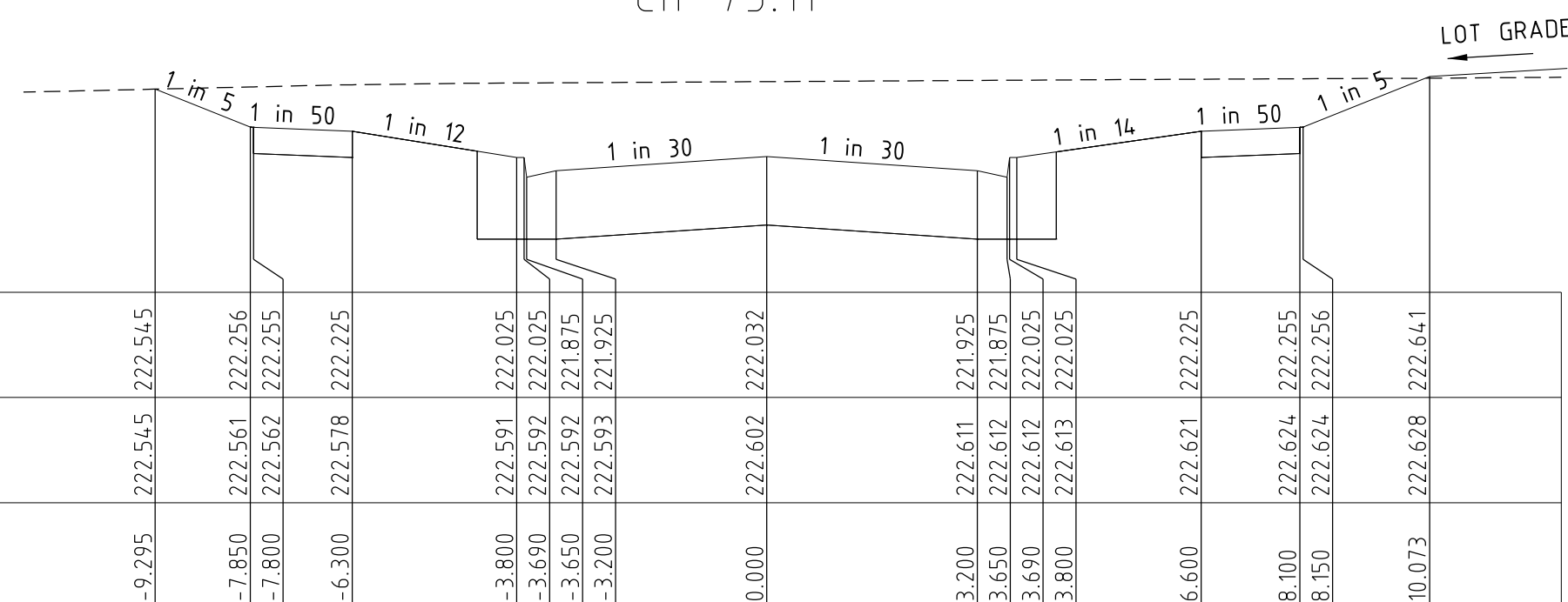
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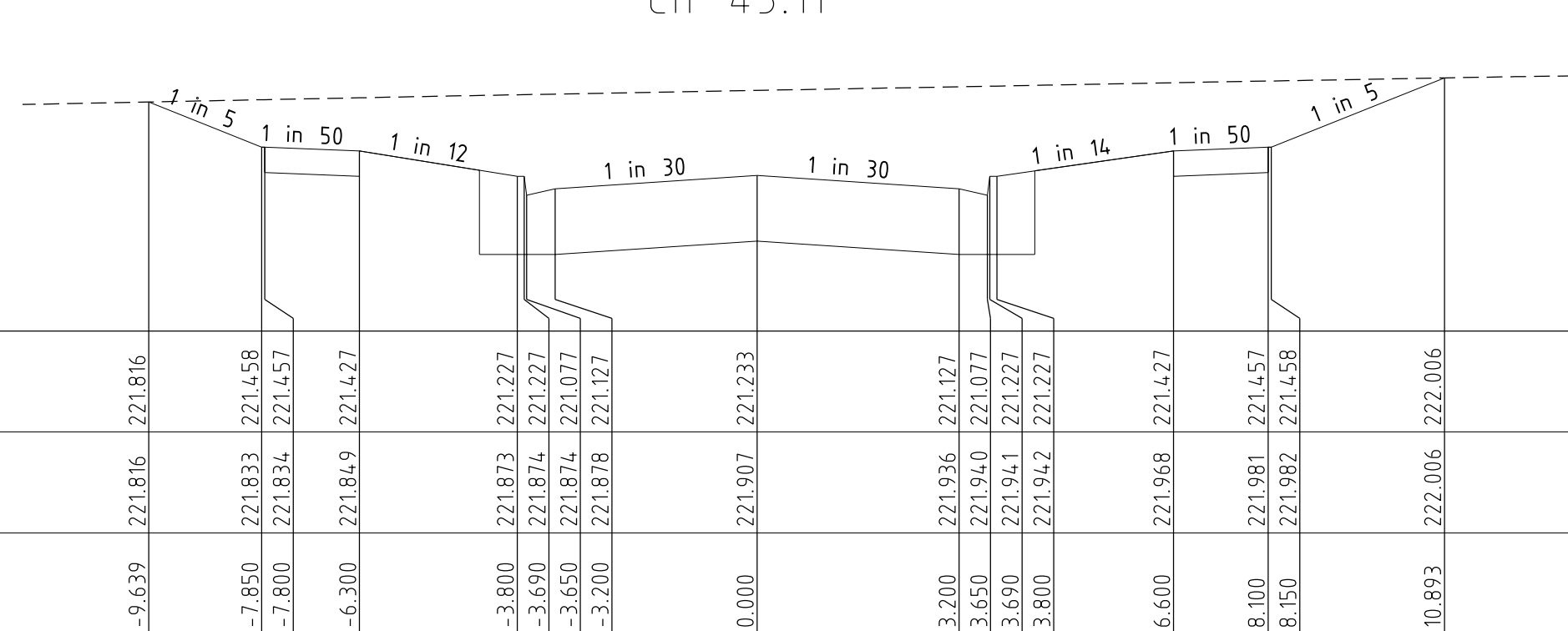
KLONI STREET



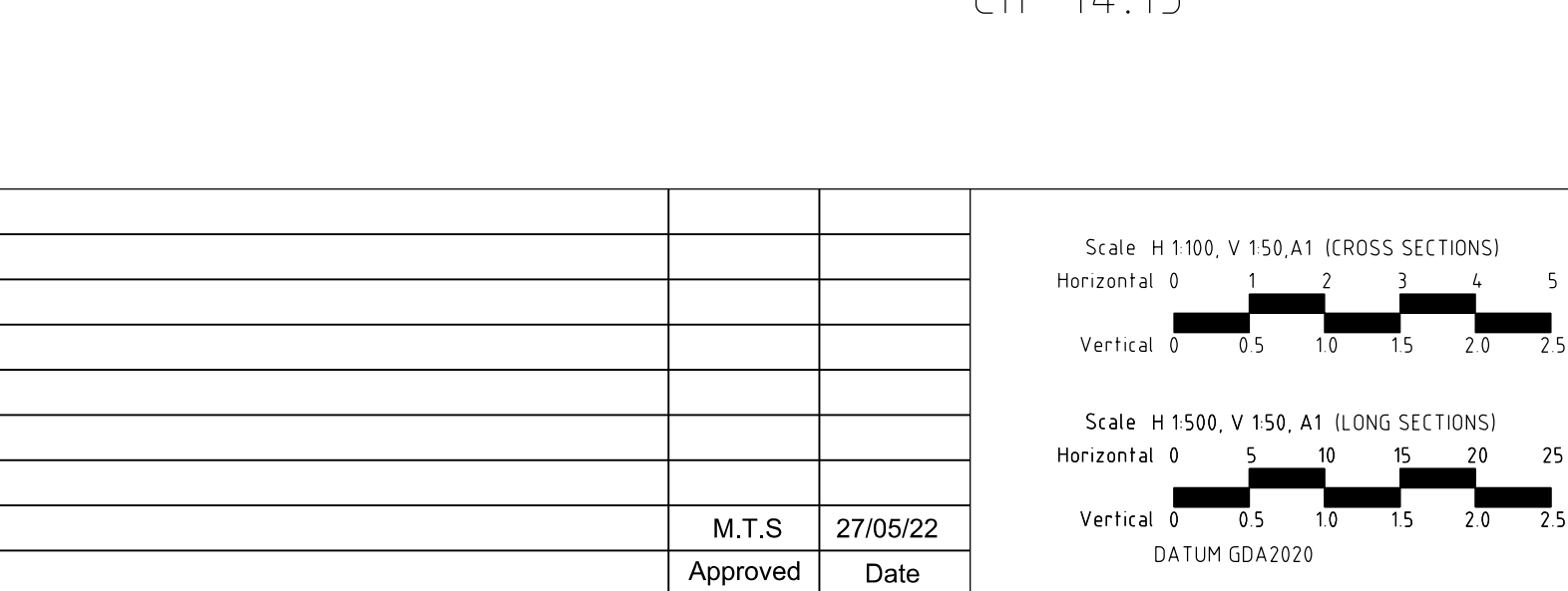
KLONI STREET



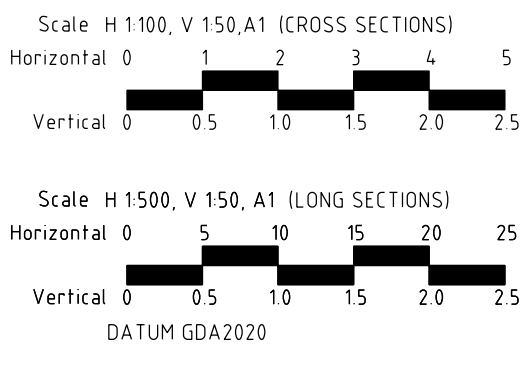
KLONI STREET



KLONI STREET



0	CONSTRUCTION ISSUE	M.T.S	27/05/22
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ABN 55 050 029 635

villawood properties

Communities Designed for Living

Designed
R. WEINBER

Authorised
M. TOOMER-SMITH

Redstone.

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D. CAMERON

Date
17/01/22

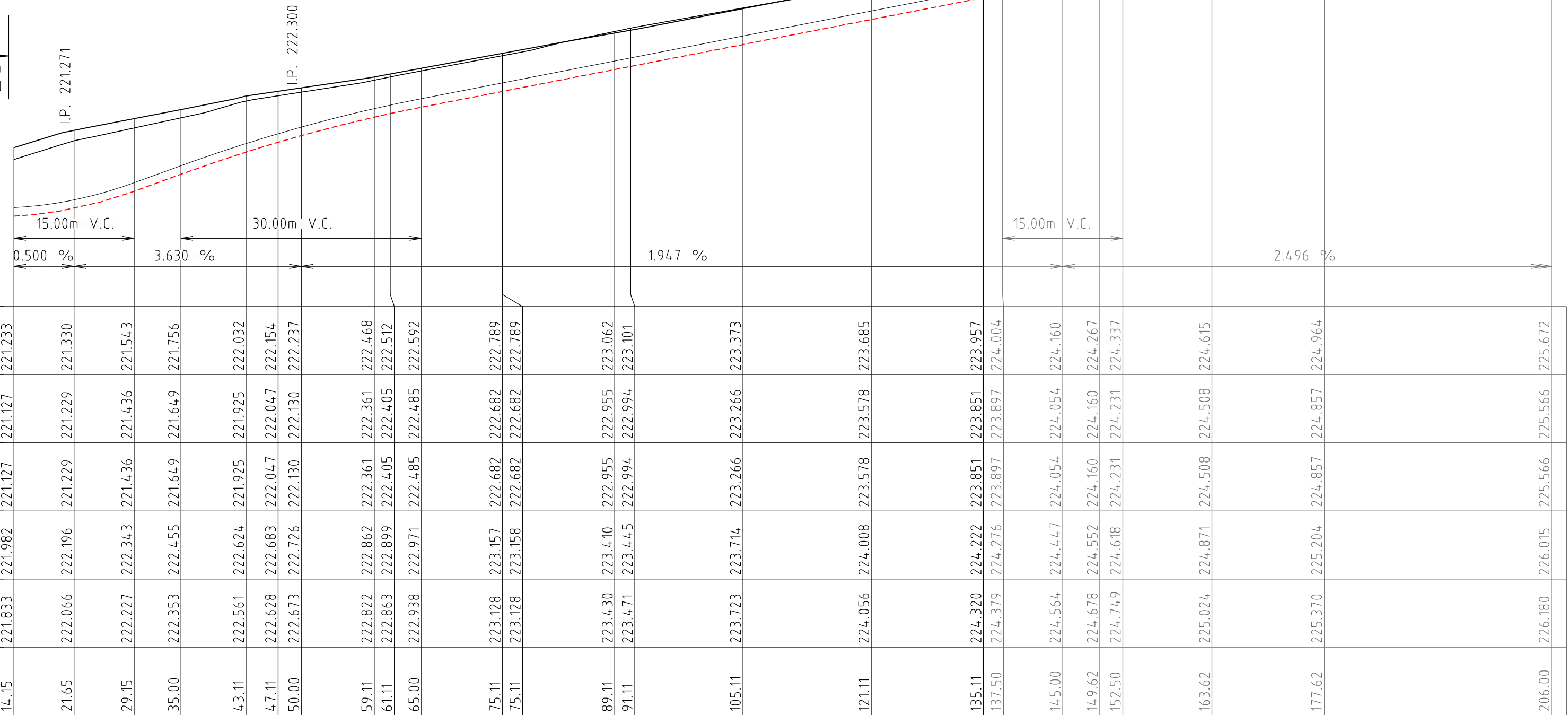
REDSTONE ESTATE
STAGE 9A
LONGITUDINAL & CROSS SECTIONS
KLONI STREET
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED

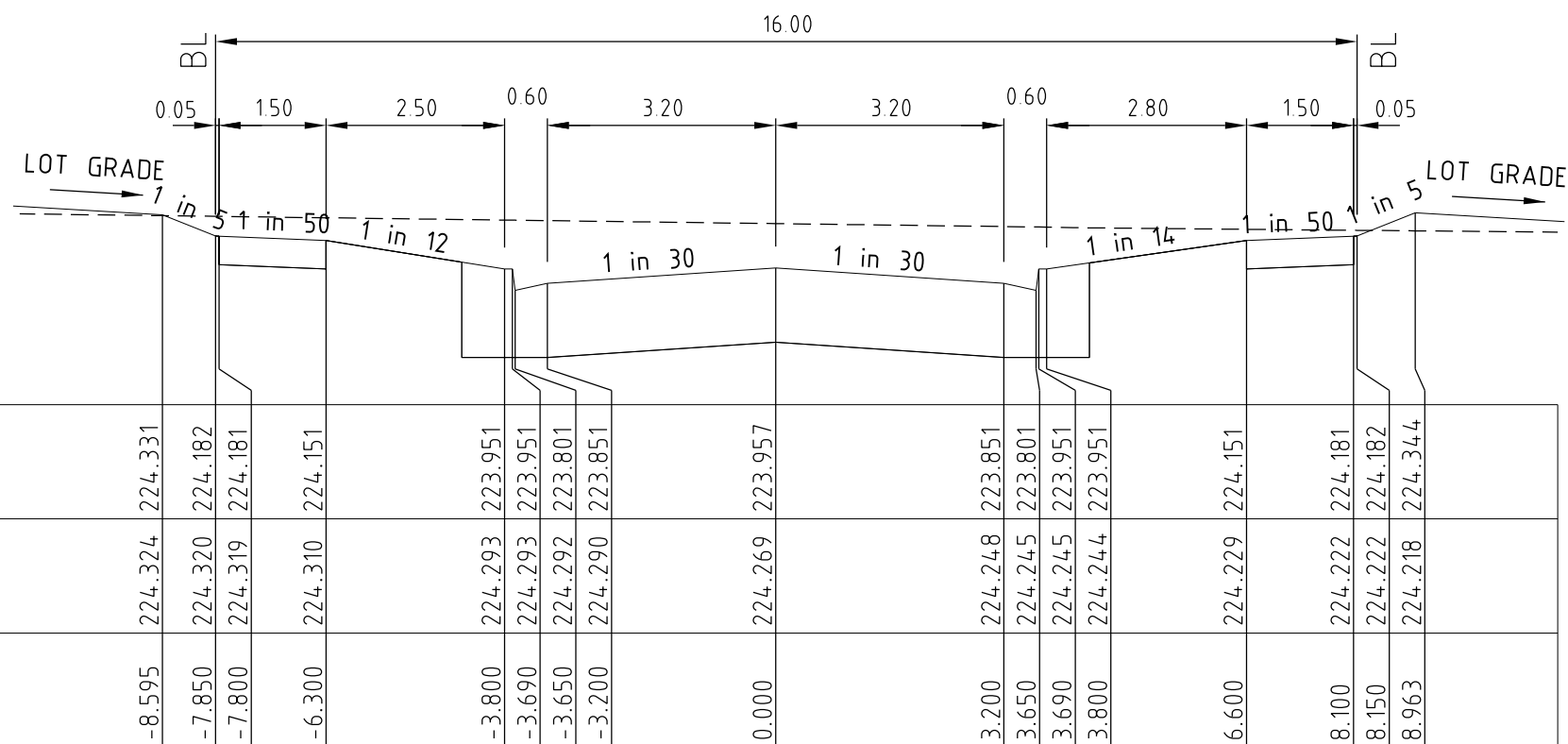
Drg No
305920R05

Rev
0

HORIZONTAL CURVE
VC LENGTH
DESIGN CL GRADE
DATUM 220
DESIGN CL SURFACE LEVEL
RIGHT DESIGN LIP OF KERB
LEFT DESIGN LIP OF KERB
EXISTING SURFACE RIGHT BOUNDARY
EXISTING SURFACE LEFT BOUNDARY
CHAINAGE



KLONI STREET



KLONI STREET

Ch 135.11

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

ALLOTMENT GRADE NOTE

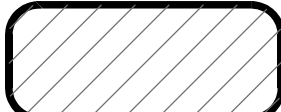
FINISHED SURFACE GRADE VARIES ALONG ALLOTMENT FRONTAGE, PROFILE INDICATED THUS:

LOT GRADE

(ALLOTMENT MINIMUM GRADE 1 IN 150)

ALLOTMENT BATTER NOTE

IF NOT SHOWN FOR CLARITY ALL BATTERS WITHIN ALLOTMENTS TO BE GRADE 1 IN 5, UNLESS NOTED OTHERWISE

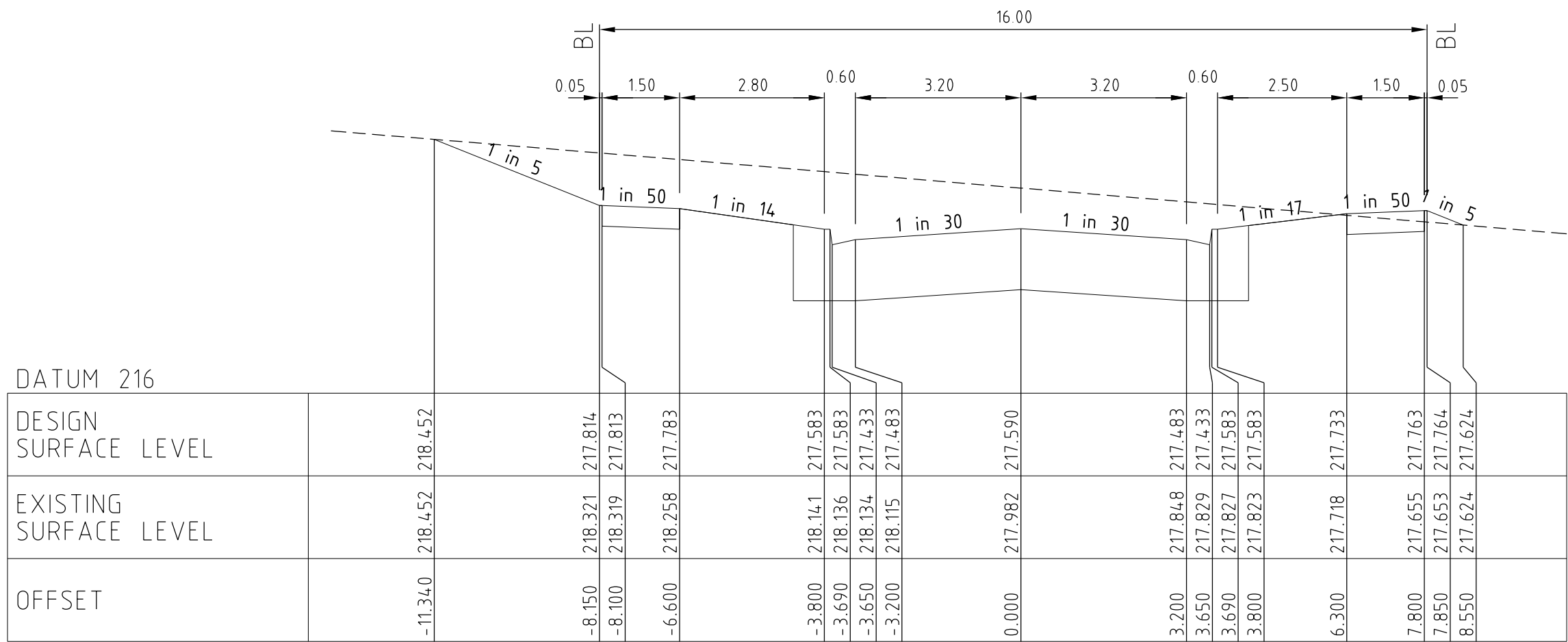


STRUCTURAL FILL
IN ACCORDANCE
WITH AS3798-2007,
LEVEL 1

ALLOTMENT GRADE NOTE
FINISHED SURFACE GRADE VARIES
ALONG ALLOTMENT FRONTAGE, PROFILE
INDICATED THUS: LOT GRADE

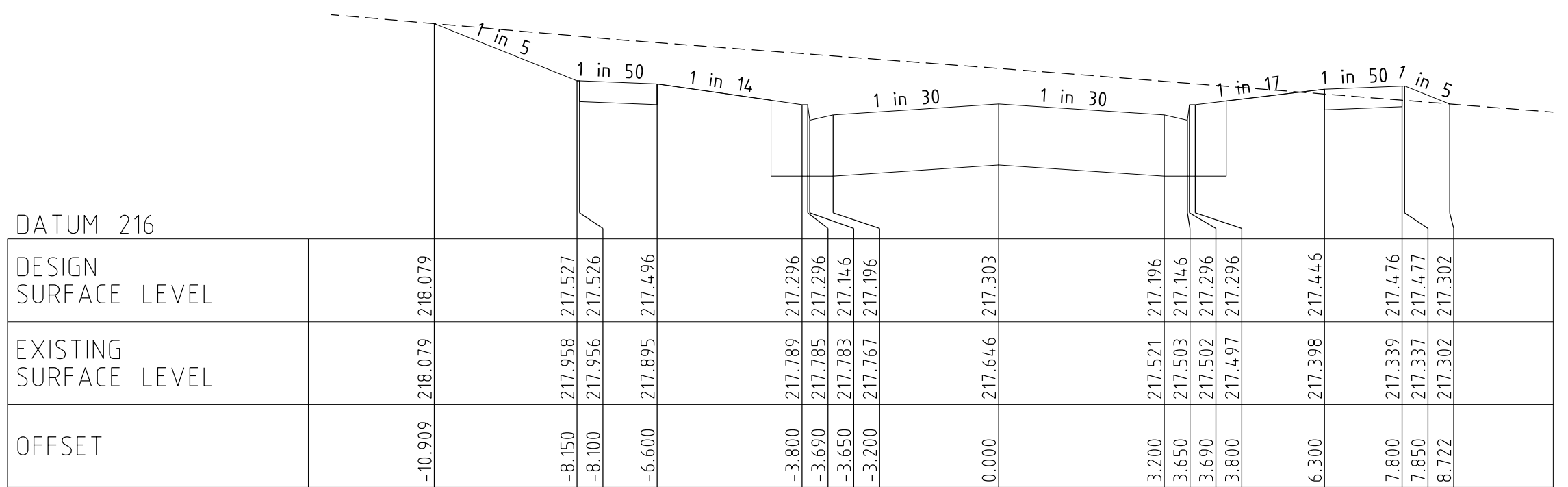
(ALLOTMENT MINIMUM GRADE 1 IN 150)

ALLOTMENT BATTER NOTE
IF NOT SHOWN FOR CLARITY
ALL BATTERS WITHIN ALLOTMENTS
TO BE GRADE 1 IN 5.
UNLESS NOTED OTHERWISE



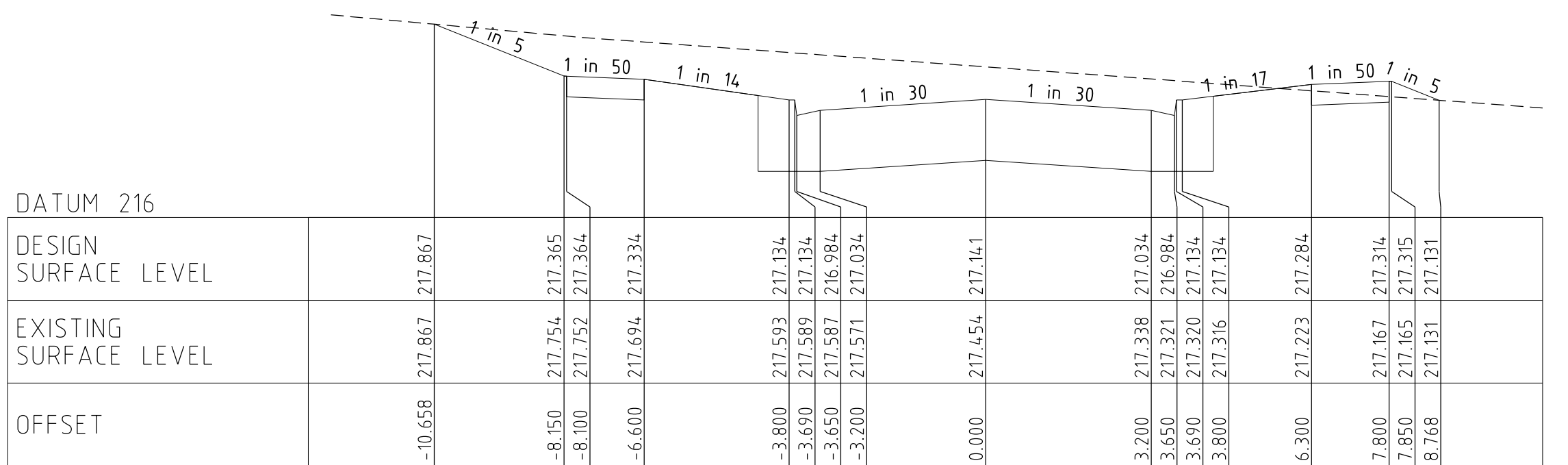
VANGEL ROAD

Ch 285.24



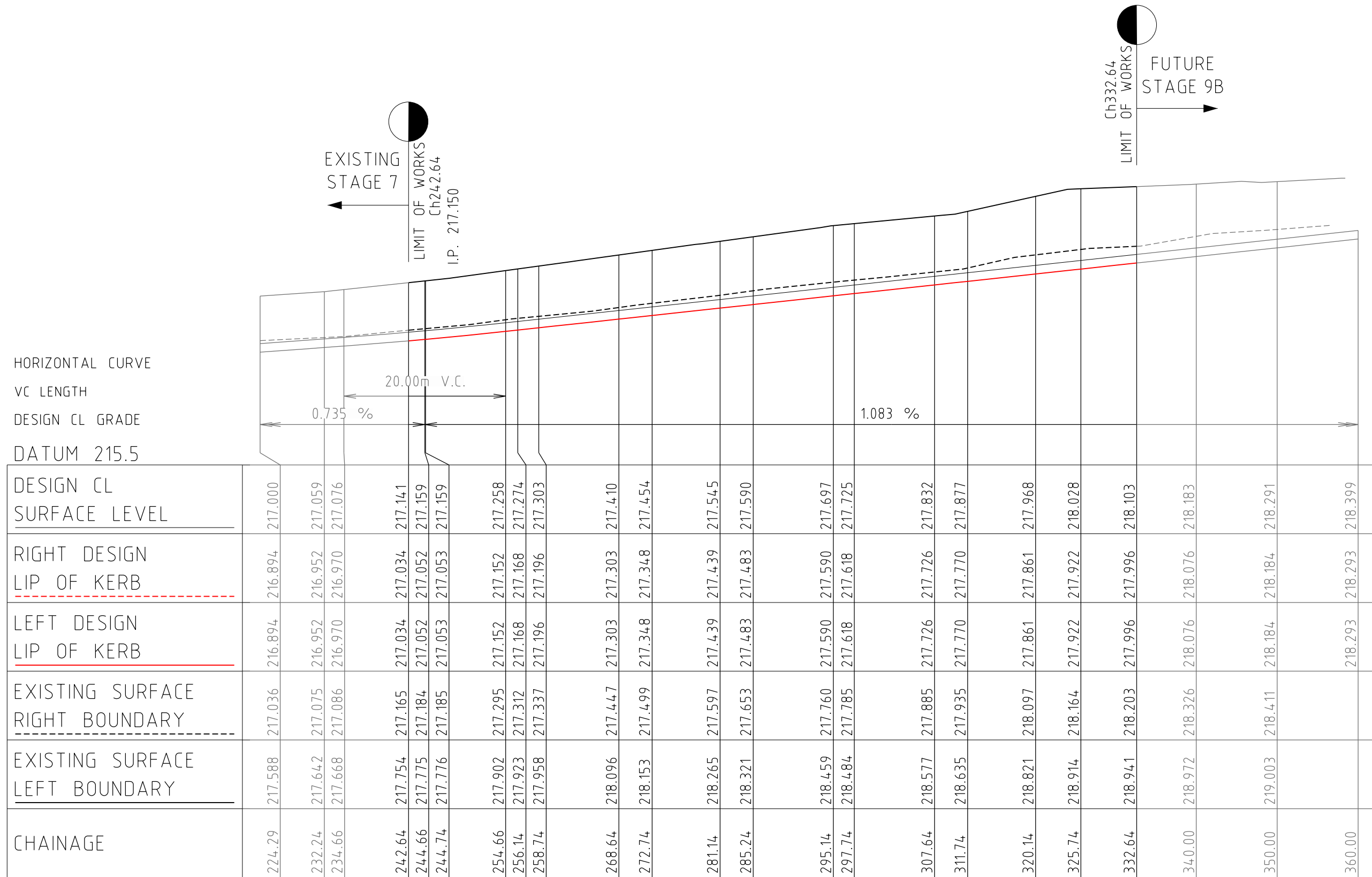
VANGEL ROAD

Ch 258.74

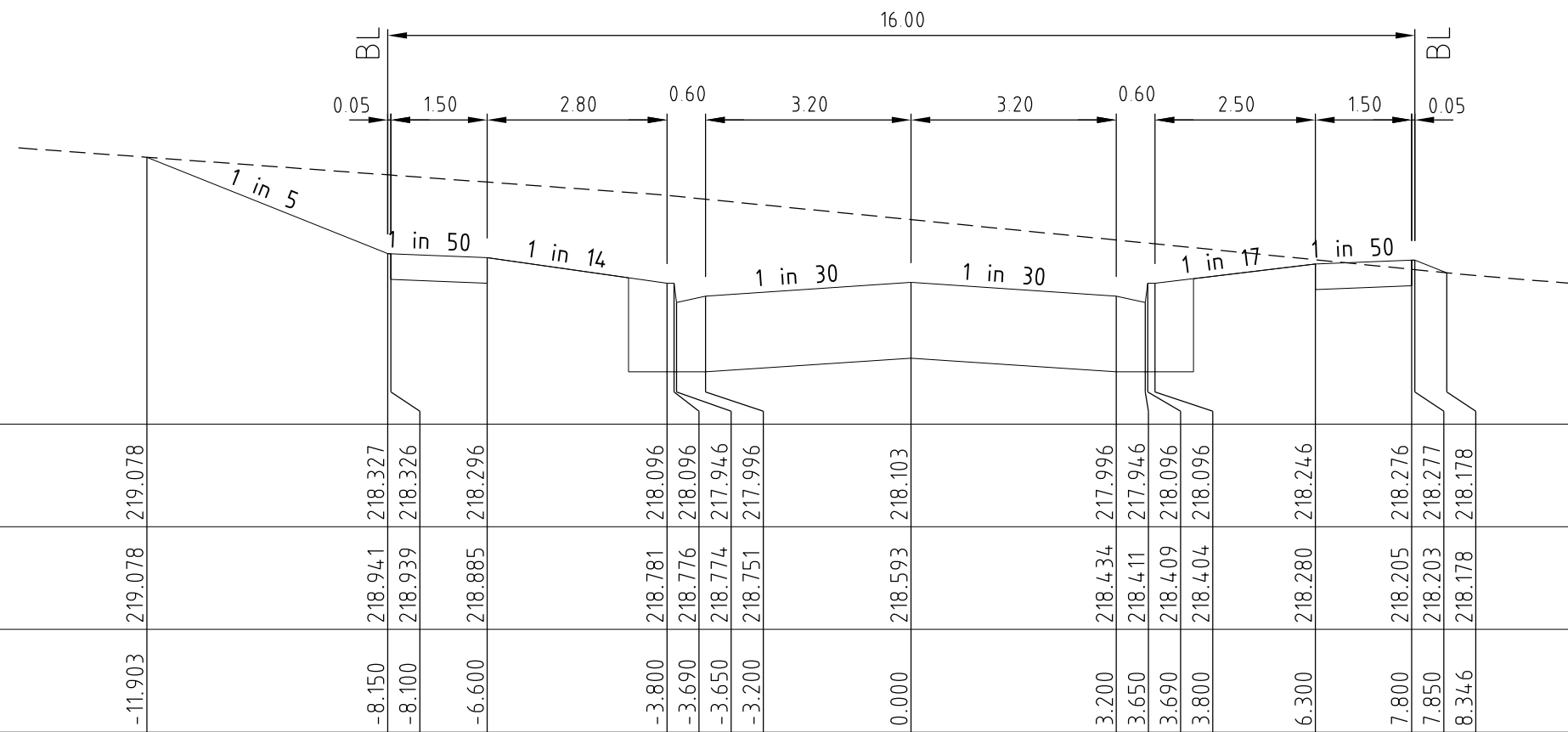


VANGEL ROAD

Ch 242.64

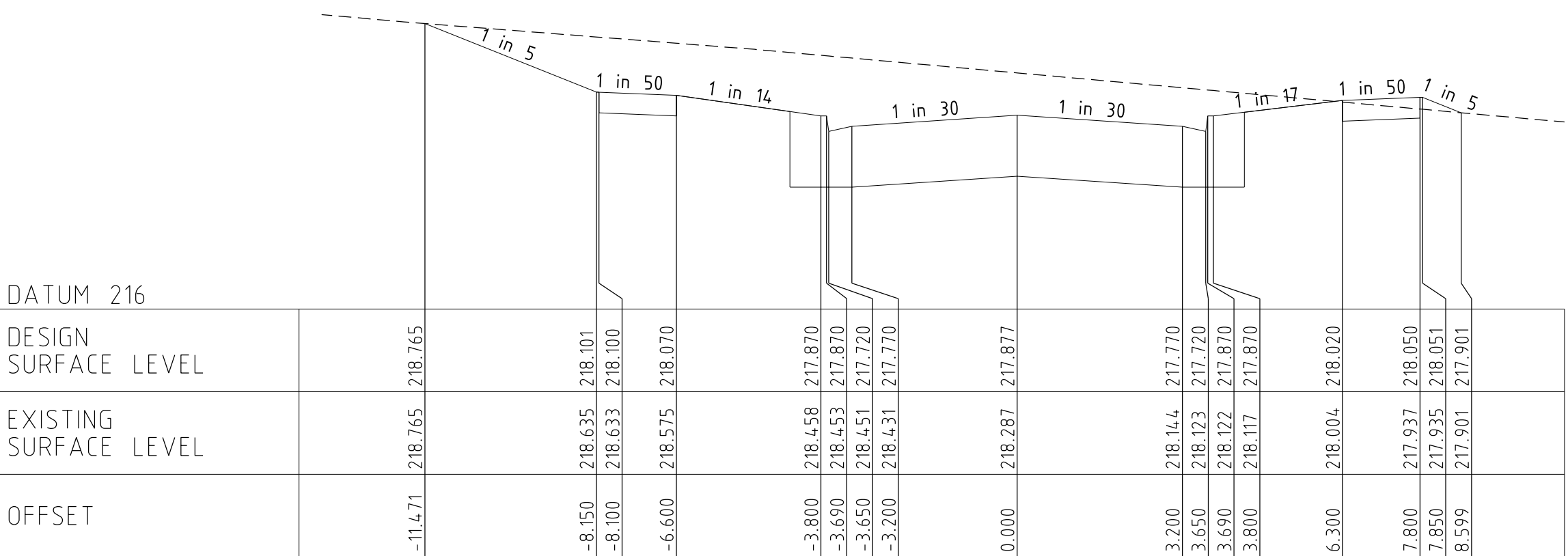


VANGEL ROAD



VANGEL ROAD

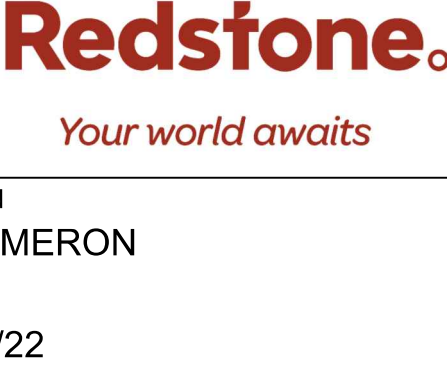
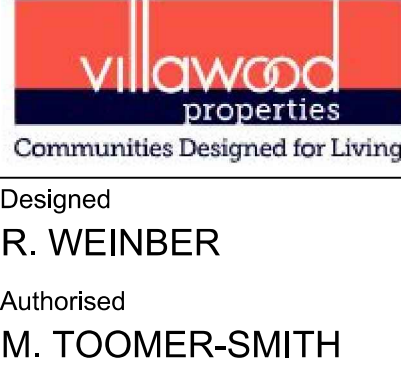
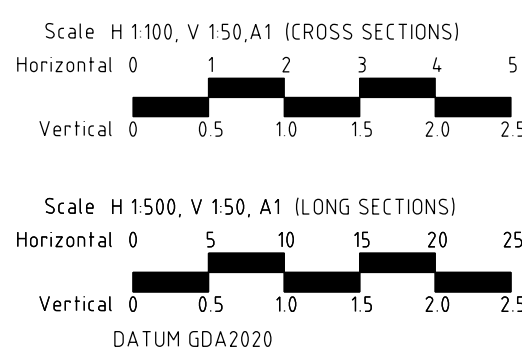
Ch 332.64



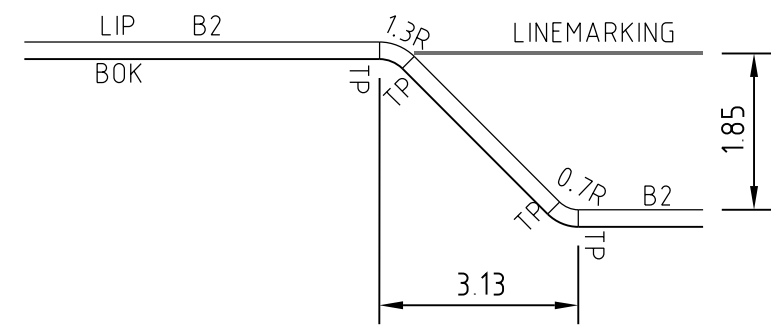
VANGEL ROAD

Ch 311.74

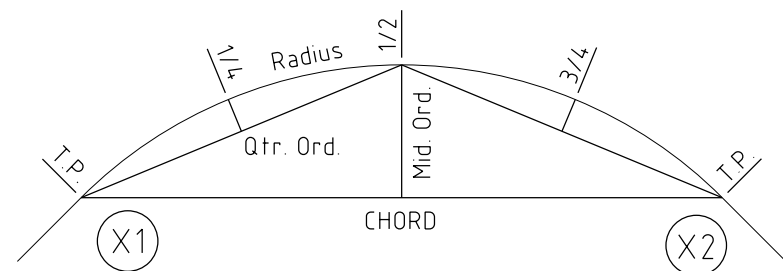
Rev	Amendments	M.T.S	Date
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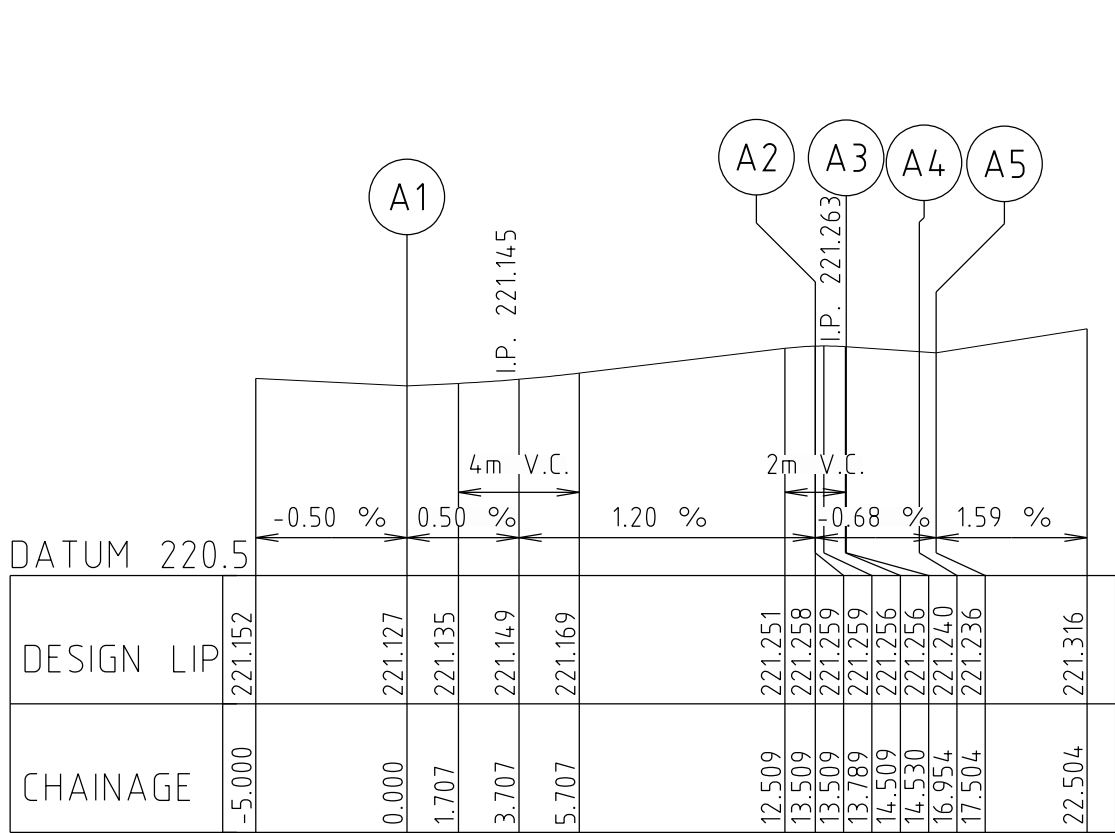
REDSTONE ESTATE
STAGE 9A
LONGITUDINAL & CROSS SECTIONS
VANGEL ROAD
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
AS CONSTRUCTED Drg No 305920R06 Rev 0



TYPICAL KERB INDENT DETAIL
N.T.S



KERB RETURN SETOUT DETAIL

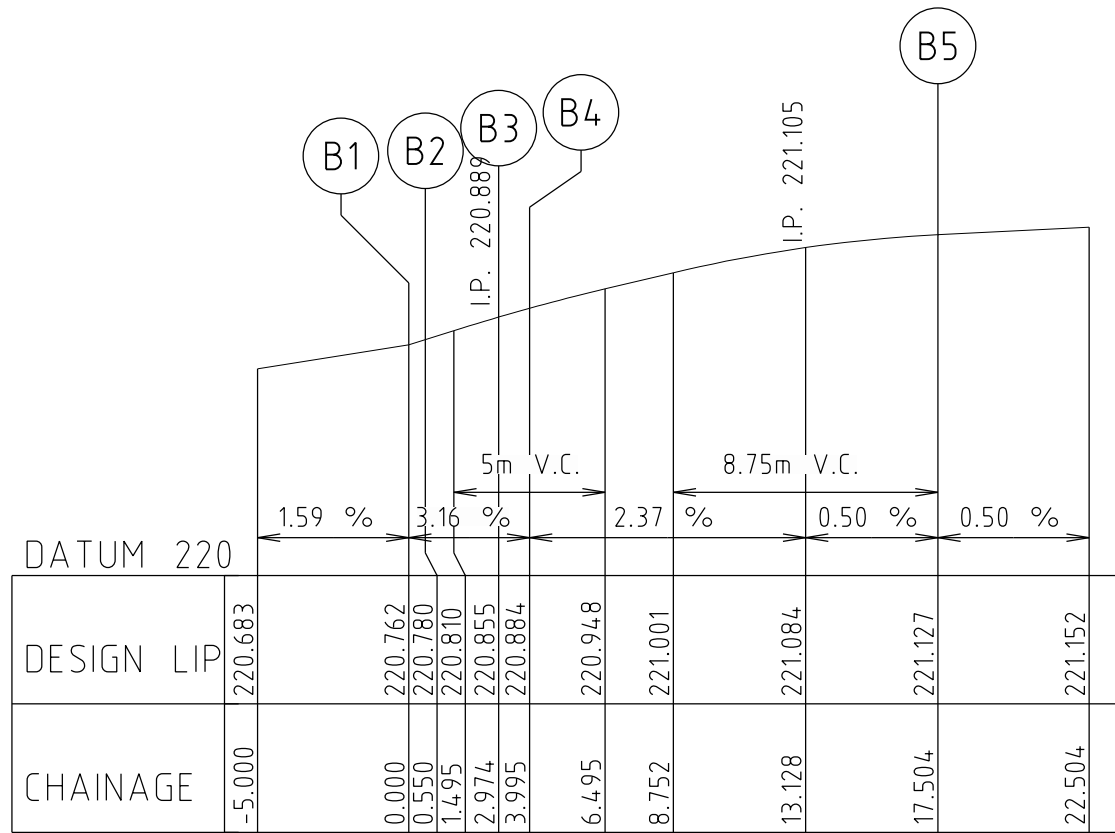


LIP LINE A
Hor250
Ver25

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	301792.239	5836229.280	221.127
1/4	301793.796	5836232.253	221.146
1/2	301794.098	5836235.594	221.182
3/4	301793.097	5836238.797	221.223
A2	301790.947	5836241.374	221.259
1/4	301790.734	5836241.514	221.259
1/2	301790.498	5836241.609	221.259
3/4	301790.248	5836241.657	221.258
A3	301789.993	5836241.655	221.256
A4	301787.582	5836241.397	221.240
1/4	301787.445	5836241.396	221.239
1/2	301787.310	5836241.422	221.238
3/4	301787.183	5836241.473	221.237
A5	301787.068	5836241.549	221.236

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	13.509	12.162	2.519	-0.655
A2-A3	1.300	1.021	0.995	0.099	-0.025
A4-A5	0.700	0.550	0.536	0.053	0.013



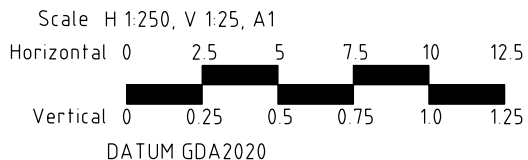
LIP LINE B
Hor250
Ver25

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	301810.303	5836222.798	220.762
1/4	301810.205	5836222.894	220.767
1/2	301810.128	5836223.007	220.771
3/4	301810.074	5836223.134	220.775
B2	301810.046	5836223.268	220.780
B3	301809.789	5836225.678	220.855
1/4	301809.737	5836225.928	220.862
1/2	301809.638	5836226.163	220.869
3/4	301809.494	5836226.373	220.877
B4	301809.313	5836226.552	220.884
1/4	301806.340	5836228.110	220.969
1/2	301802.998	5836228.411	221.044
3/4	301799.795	5836227.411	221.098
B5	301797.219	5836225.261	221.127

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

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R. WEINBER
Authorised
M. TOOMER-SMITH



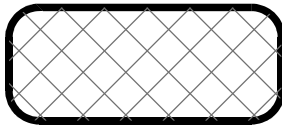
Checked
D. CAMERON
Date
17/01/22

REDSTONE ESTATE
STAGE 9A
INTERSECTION DETAILS

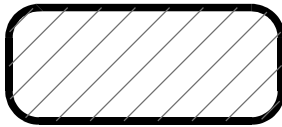
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No 305920R07

Rev 0



CLASS 2 CRUSHED ROCK



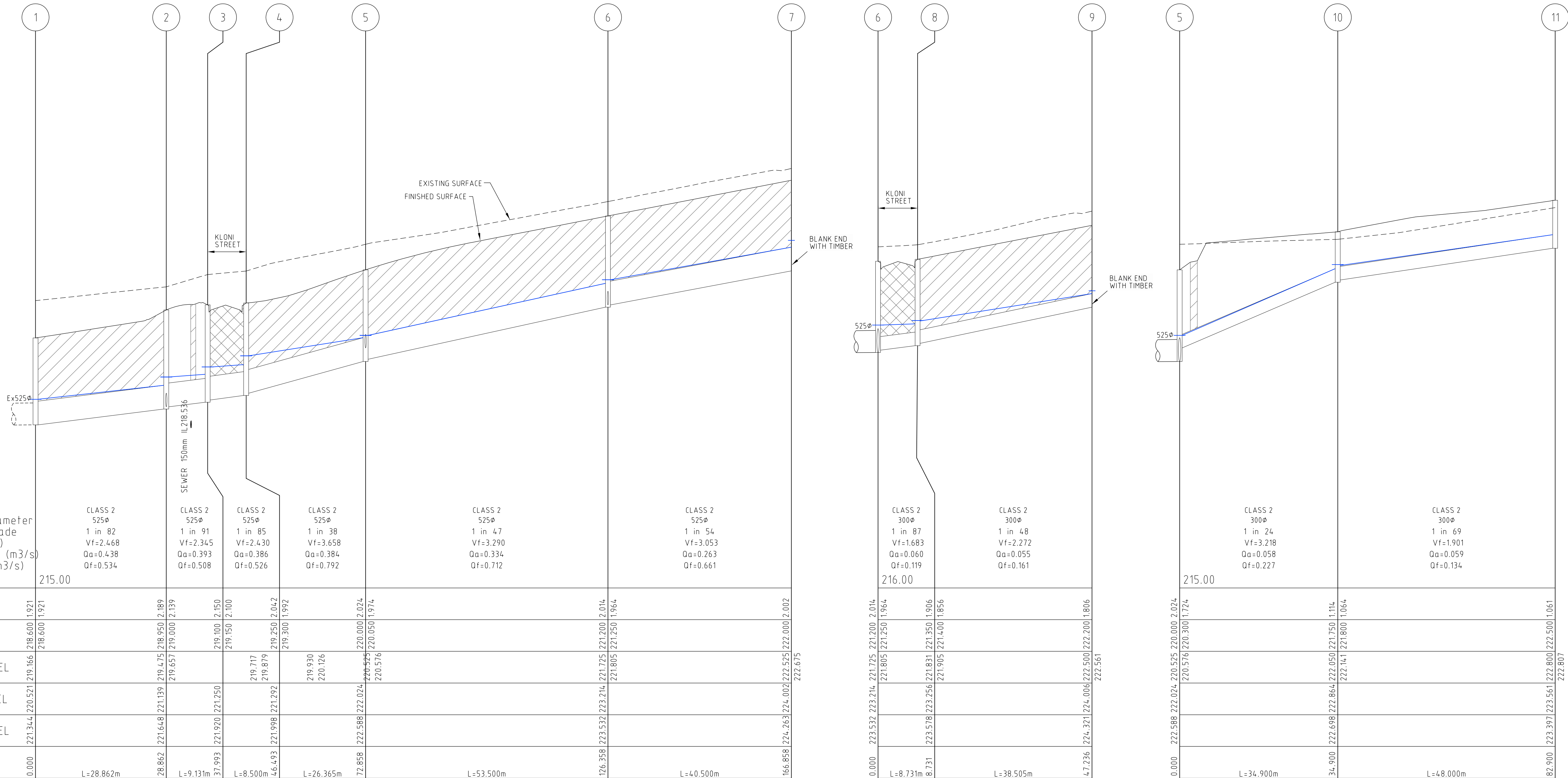
CLASS 3 CRUSHED ROCK

NOTE:

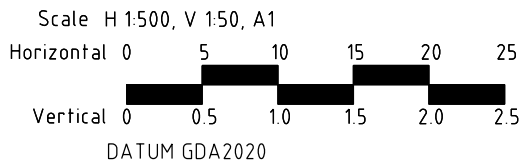
1 ALL PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS NOTED OTHERWISE.

2 DRAINAGE PIPES GREATER THAN 750Ø ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS

3 CURVED PIPE ALIGNMENTS TO BE ACHIEVED USING EITHER:
a) SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION
b) DEFLECTION ACHIEVED WITHIN RRJ.



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Communities Designed for Living

Designed
R. WEINBER

Authorised
M. TOOMER-SMITH

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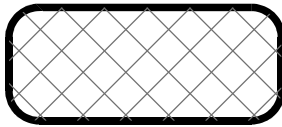
Date
17/01/22

REDSTONE ESTATE
STAGE 9A
DRAINAGE LONG SECTION
SHEET 1 OF 3
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

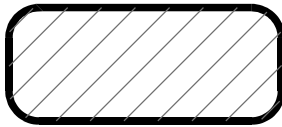
AS CONSTRUCTED

Drg No
305920R08

Rev
0



CLASS 2 CRUSHED ROCK



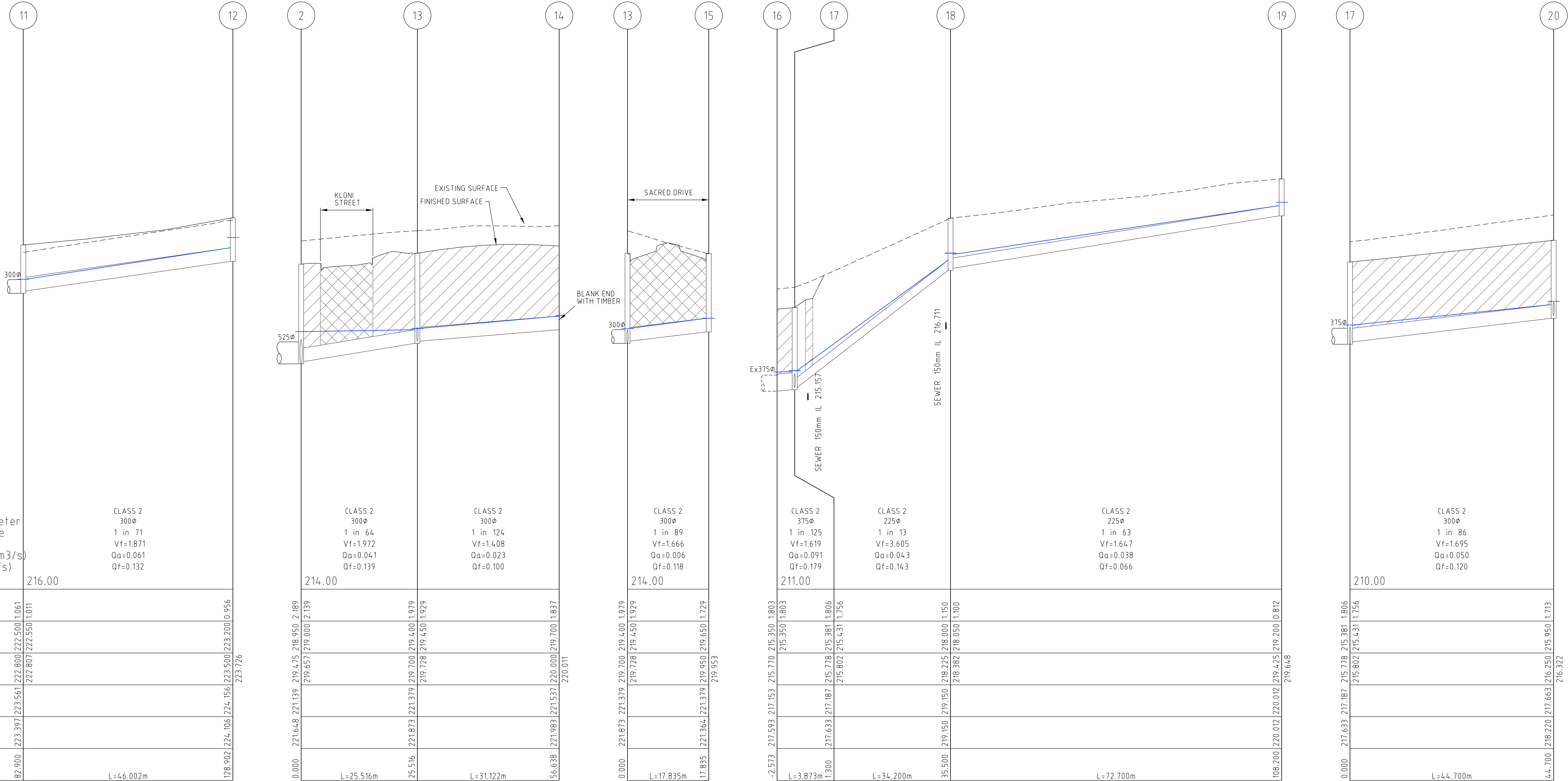
CLASS 3 CRUSHED ROCK

NOTE:

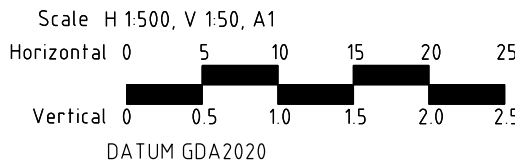
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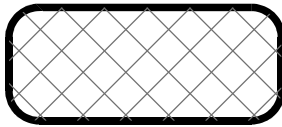
Redstone.
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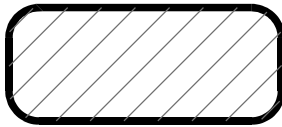
Date
17/01/22

REDSTONE ESTATE
STAGE 9A
DRAINAGE LONG SECTION
SHEET 2 OF 3
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No **305920R09** Rev **0**



CLASS 2 CRUSHED ROCK



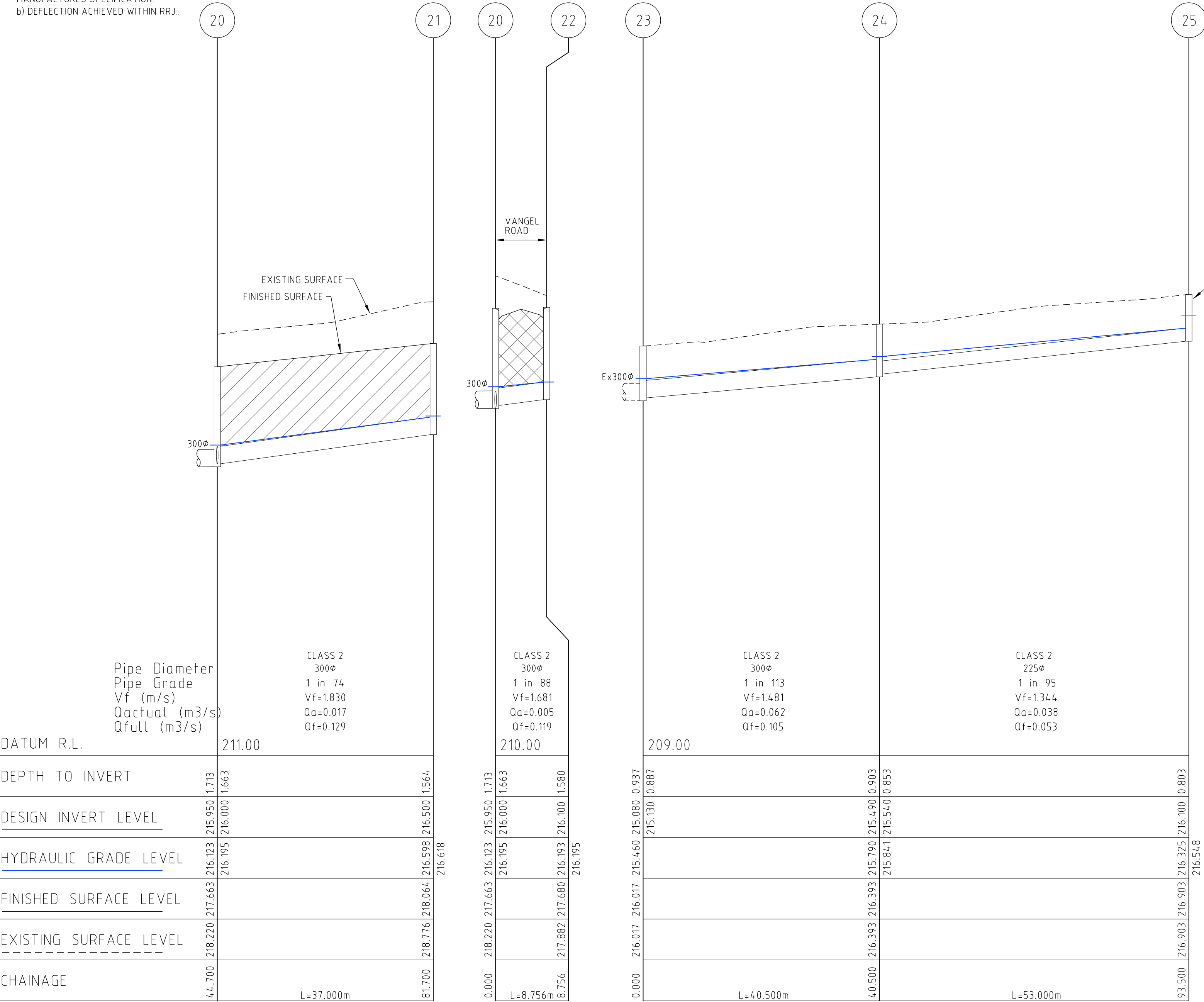
CLASS 3 CRUSHED ROCK

NOTE:

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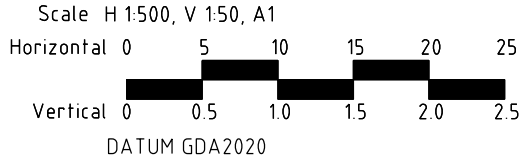
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b) DEFLECTION ACHIEVED WITHIN RRJ.



DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	LENGTH	WIDTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
1	EXISTING JUNCTION PIT			525	218.600			220.521	1.921	CONNECT TO EXISTING 525 STUB
2	JUNCTION PIT	900	900	525	219.000	525	218.950	221.139	2.189	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	219.000					
3	SIDE ENTRY PIT GRATED	900	900	525	219.150	525	219.100	221.250	2.150	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
4	SIDE ENTRY PIT GRATED	900	900	525	219.300	525	219.250	221.292	2.042	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
5	SIDE ENTRY PIT GRATED	900	900	525	220.050	525	220.000	222.024	2.024	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	220.300					
6	SIDE ENTRY PIT GRATED	900	900	525	221.250	525	221.200	223.214	2.014	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	221.250					
7	ENDPIPE					525	222.000	224.002	2.002	BLANK END WITH MARINE PLY
8	SIDE ENTRY PIT GRATED	900	600	300	221.400	300	221.350	223.256	1.906	REFER DRAWING - EDCM 601
9	ENDPIPE					300	222.200	224.006	1.806	BLANK END WITH MARINE PLY
10	JUNCTION PIT	900	600	300	221.800	300	221.750	222.864	1.114	REFER DRAWING - EDCM 605
11	JUNCTION PIT	900	600	300	222.550	300	222.500	223.561	1.061	REFER DRAWING - EDCM 605
12	JUNCTION PIT	900	600	300	223.200	300	223.200	224.156	0.956	REFER DRAWING - EDCM 605
13	SIDE ENTRY PIT GRATED	900	600	300	219.450	300	219.400	221.379	1.979	REFER DRAWING - EDCM 601 PROVIDE HD COVER
				300	219.450					
14	ENDPIPE					300	219.700	221.537	1.837	
15	SIDE ENTRY PIT GRATED	900	600			300	219.650	221.379	1.729	REFER DRAWING - EDCM 601
16	EXISTING ENDPIPE			375	215.350			217.153	1.803	CONNECT TO EXISTING ENDPIPE
17	JUNCTION PIT	900	600	225	215.431	375	215.381	217.187	1.806	REFER DRAWING - EDCM 605
				300	215.431					
18	JUNCTION PIT	900	600	225	218.050	225	218.000	219.150	1.150	REFER DRAWING - EDCM 605
19	JUNCTION PIT	900	600			225	219.200	220.012	0.812	REFER DRAWING - EDCM 605
20	SIDE ENTRY PIT GRATED	900	600	300	216.000	300	215.950	217.663	1.713	REFER DRAWING - EDCM 601
				300	216.000					
21	JUNCTION PIT	900	600			300	216.500	218.064	1.564	REFER DRAWING - EDCM 605
22	SIDE ENTRY PIT GRATED	900	600			300	216.100	217.680	1.580	REFER DRAWING - EDCM 601
23	EXISTING ENDPIPE			300	215.082			216.017	0.935	CONNECT TO EXISTING ENDPIPE
24	JUNCTION PIT	900	600	225	215.540	300	215.490	216.393	0.903	REFER DRAWING - EDCM 605
25	JUNCTION PIT					225	216.100	216.903	0.803	REFER DRAWING - EDCM 605 PROVIDE "V" NOTCH ON NW WALL

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Authorised
M. TOOMER-SMITH

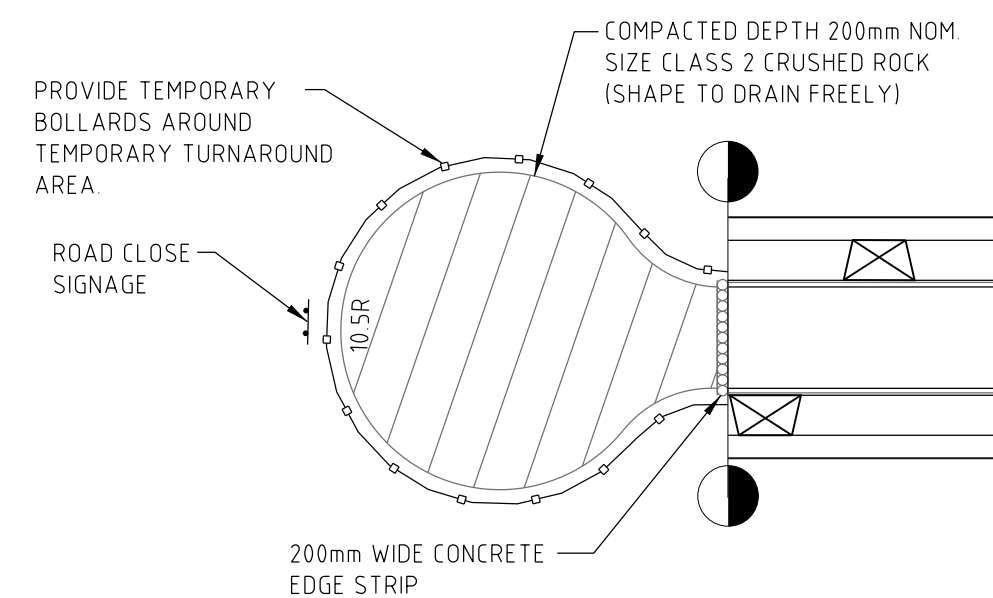
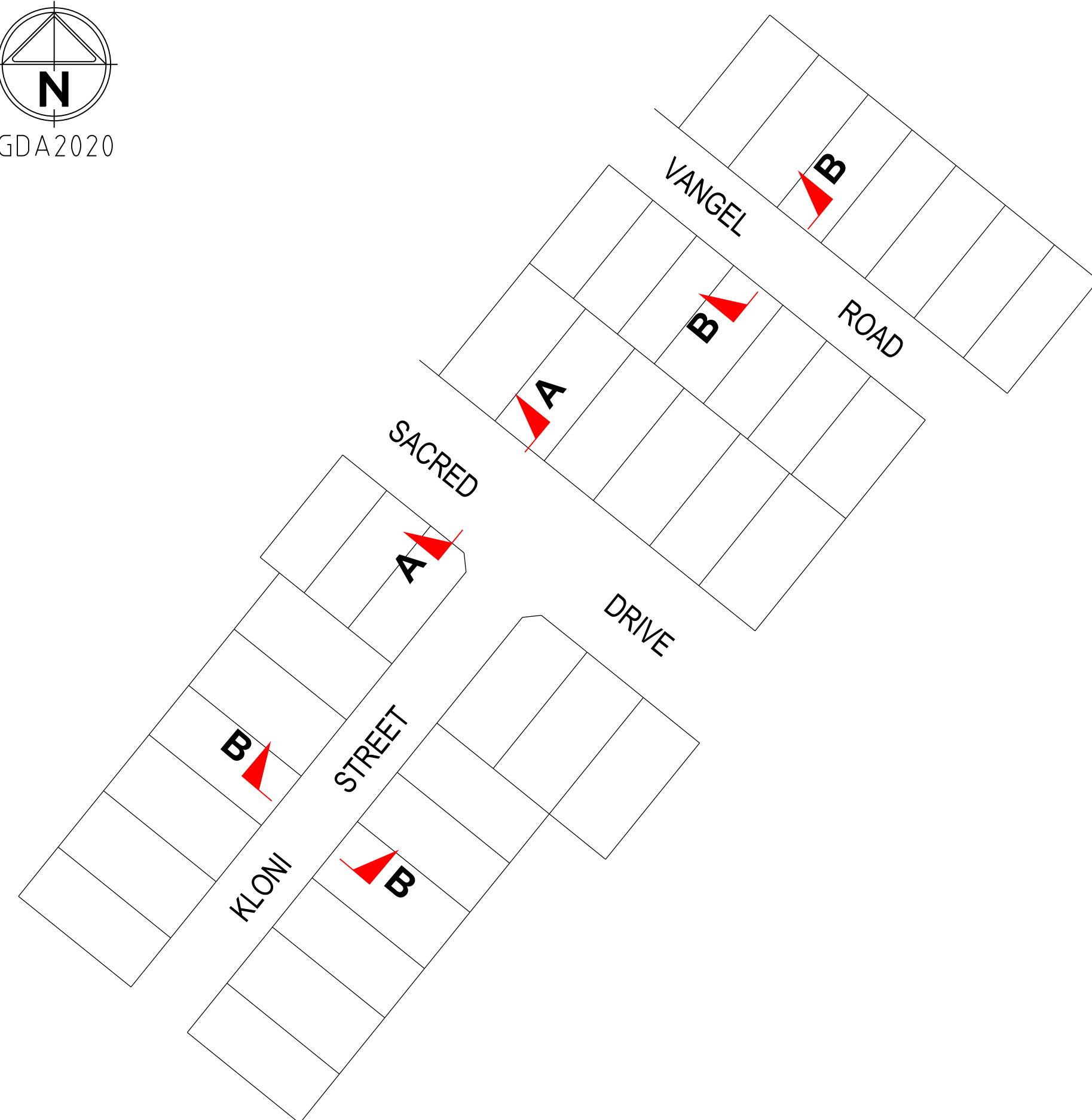


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Date
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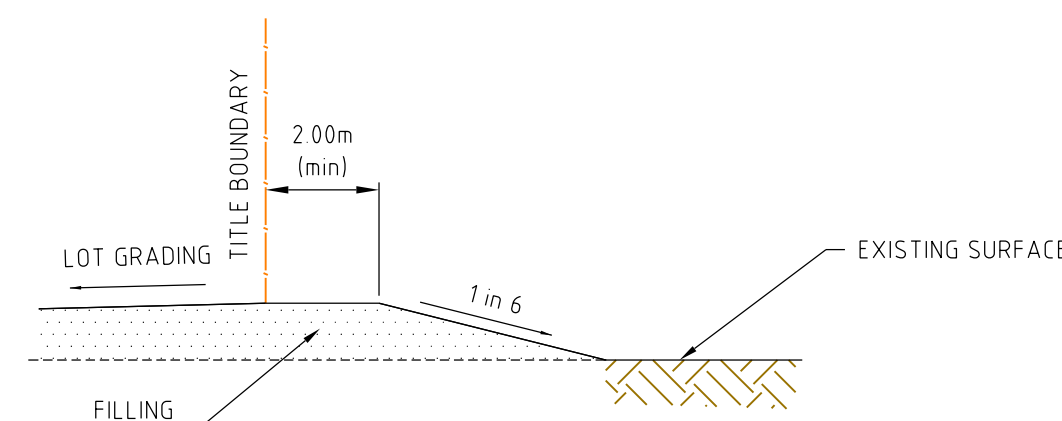
REDSTONE ESTATE
STAGE 9A
DRAINAGE LONG SECTION
SHEET 3 OF 3
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No
305920R10

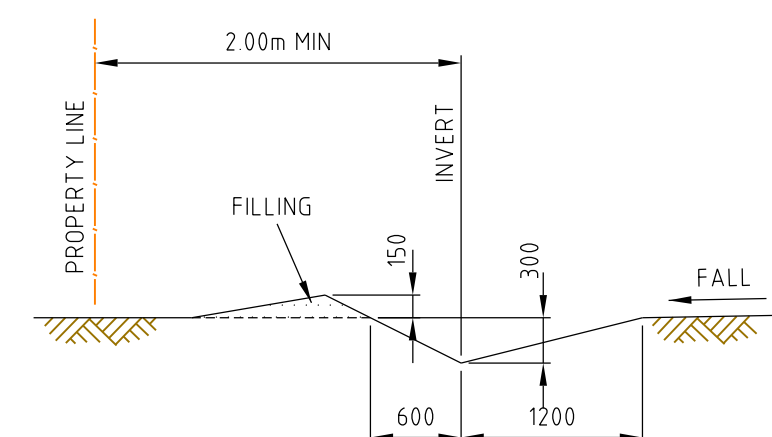
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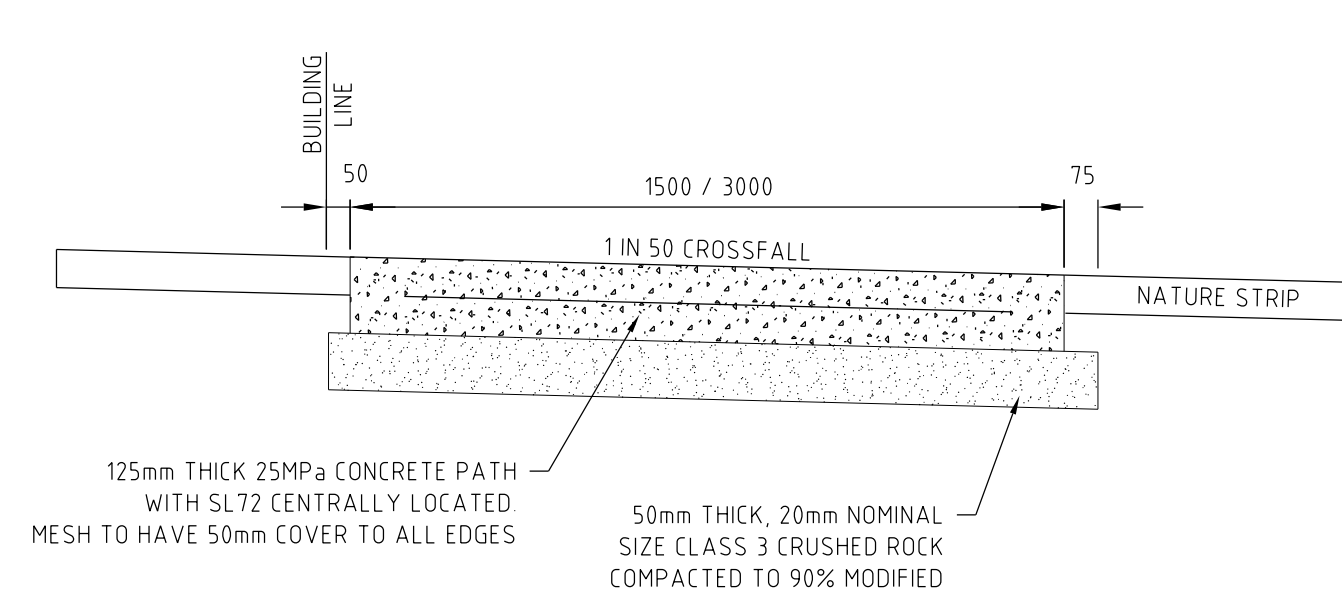
TEMPORARY TURNING AREA DETAIL



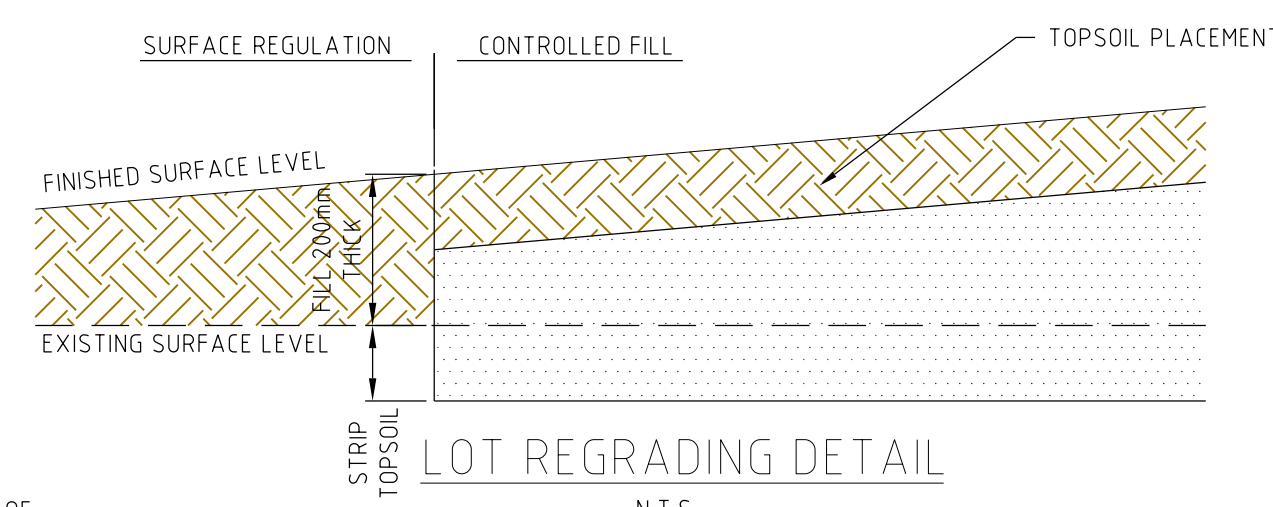
LOT FILLING AT STAGE BOUNDARY



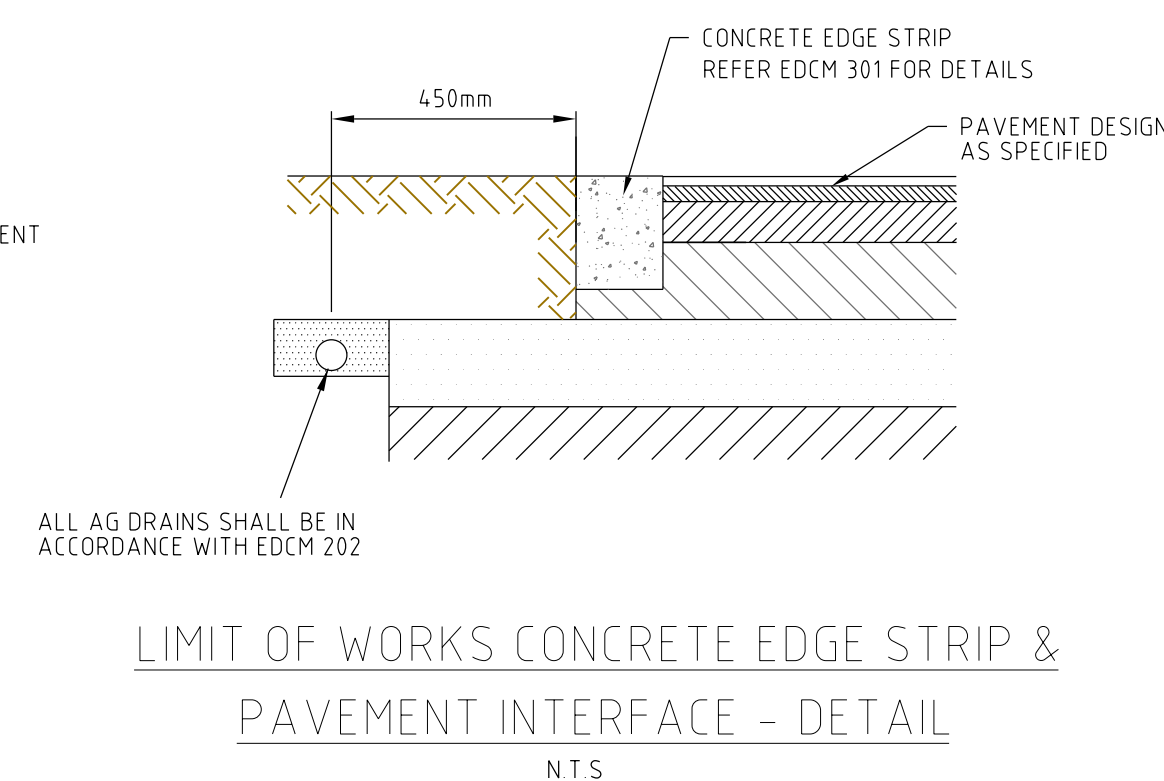
TYPICAL CATCH DRAIN SECTION



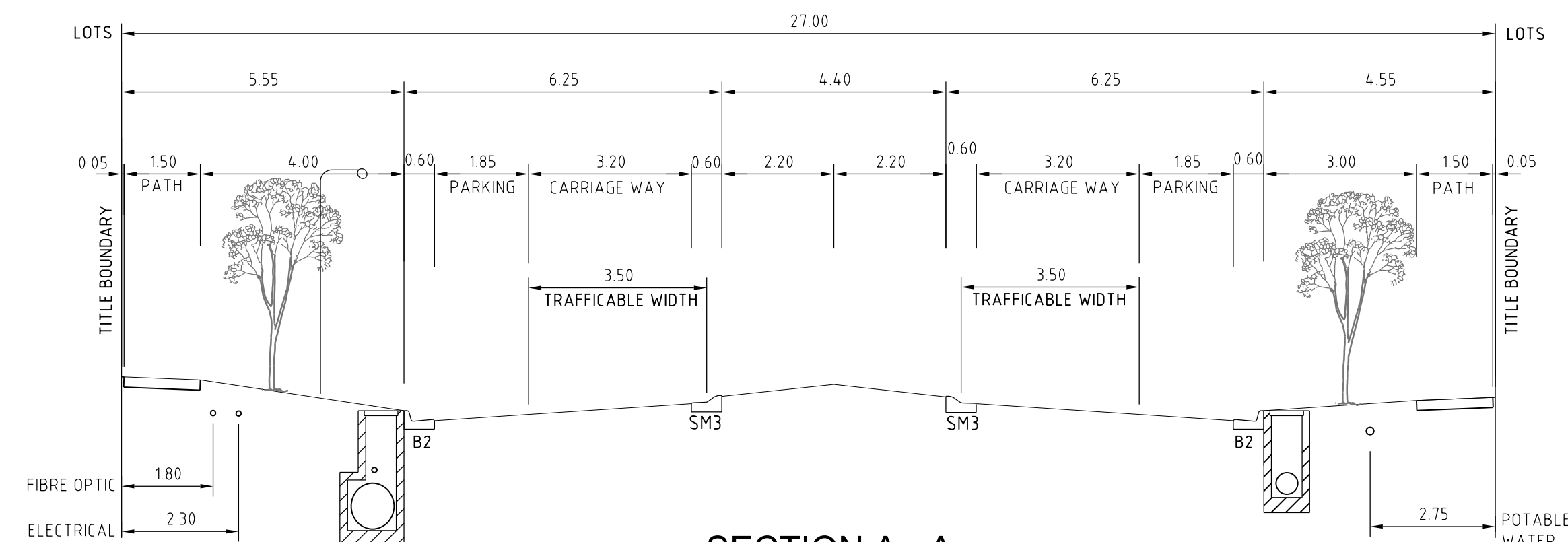
TYPICAL RESIDENTIAL FOOTPATH CROSS SECTION



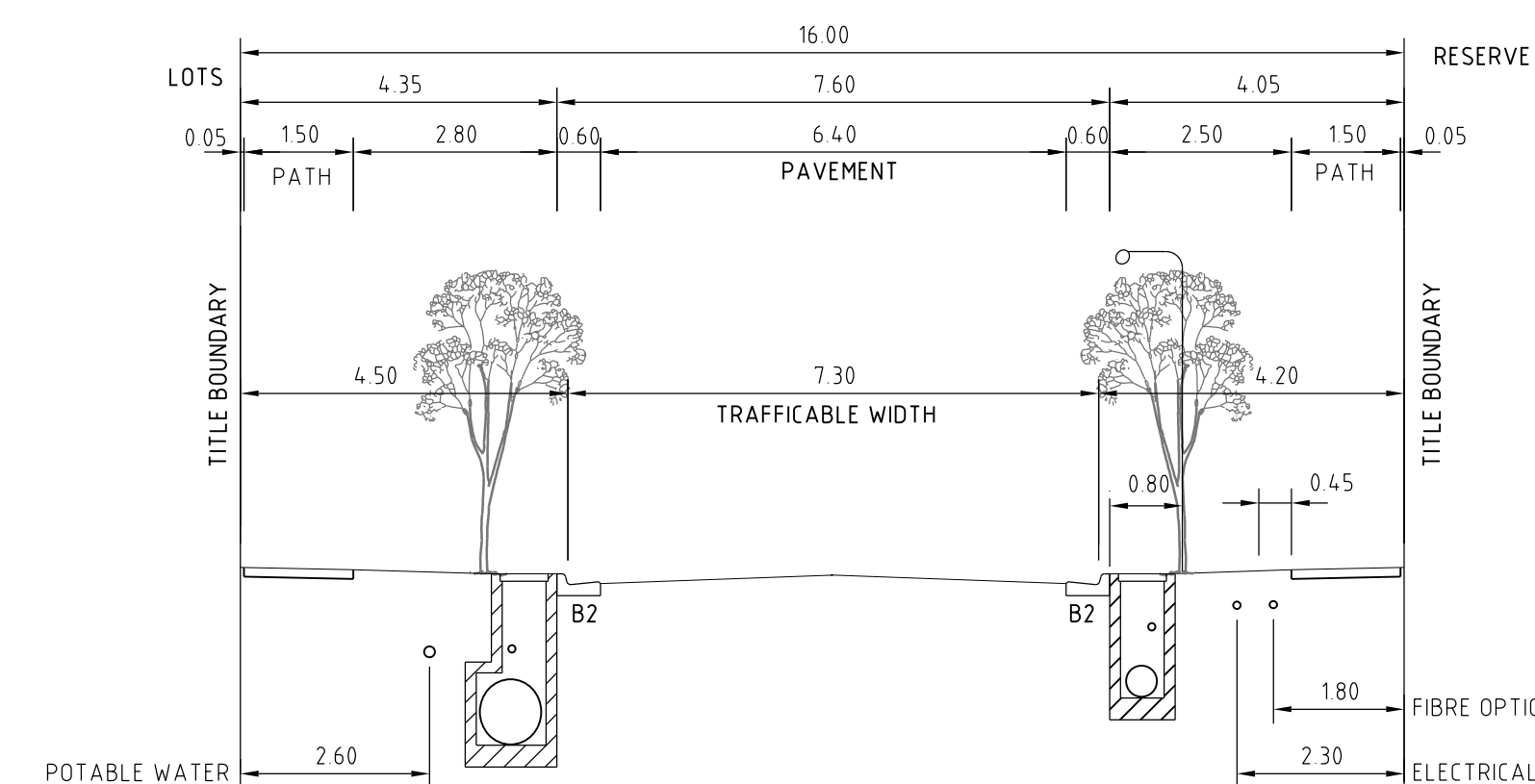
LOT REGRADING DETAIL



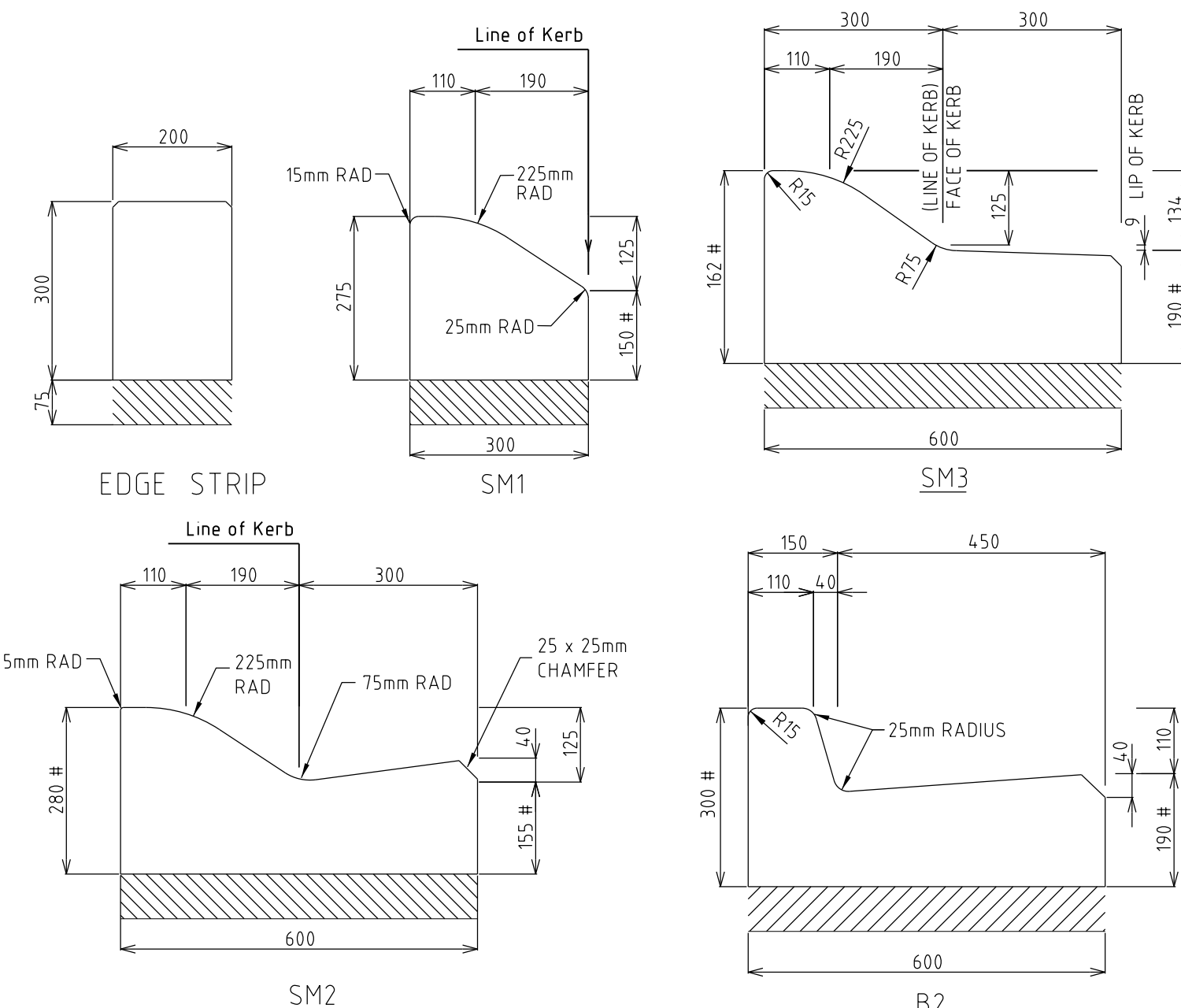
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL



SECTION A - A
TYPICAL 27.00m ROAD RESERVE
SACRED DRIVE



SECTION B - B
TYPICAL 16.00m ROAD RESERVE
VANGEL ROAD & KLONI STREET



STANDARD KERB PROFILES

NOT TO SCALE

- 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.
 3. DIMENSION SHOWN # DEPTH TO BE ADJUSTED TO ACCOMMODATE SAMI SEAL LAYER.

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**REDSTONE ESTATE
STAGE 9A**
TYPICAL CROSS SECTIONS
AND TYPICAL DETAILS
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

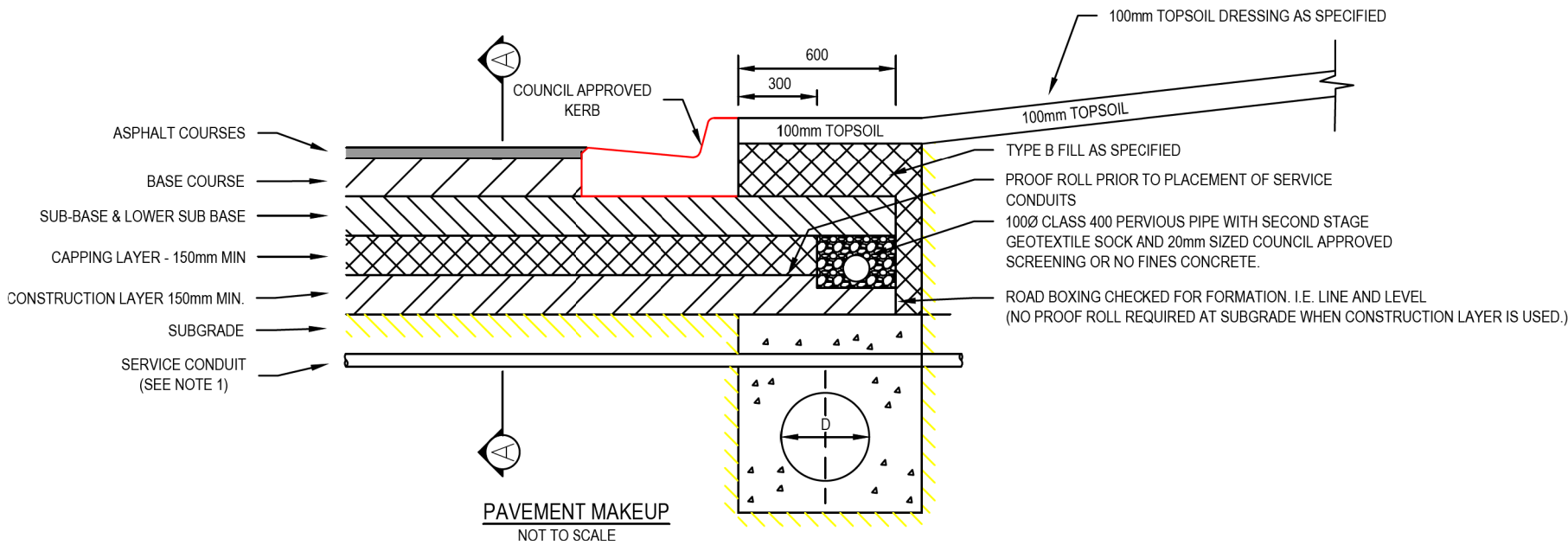
AS CONSTRUCTED Drg No **305920R11**

Rev
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NOTES
SUB SURFACE DRAINAGE
SUB SURFACE DRAINAGE TO BE CONSTRUCTED AS PER EDCM STANDARD DRAWING 202a

NOTE FOR SAMI TREATMENT
DESIGN AND APPLICATION OF SAMI, INCLUDING MATERIAL REQUIREMENTS, SHOULD COMPLY WITH VICROADS STANDARD SPECIFICATION FOR ROADWORKS AND BRIDGEWORKS SECTION 408 AND THE CURRENT AUSTRROADS SPRAYED SEAL DESIGN METHOD.



DESIGN PAVEMENT PROFILE FOR AREA 2

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		AREA 2
WEARING COURSE	Size 10mm Type L Asphalt with a C320 binder	30
STRUCTURAL COURSE	Size 10mm Type N Asphalt with a C320 binder	30
WATER-PROOFING COURSE	SAMI seal with Class S18RF binder and bituminous prime	10
BASE COURSE (Standard Quality)	20mm nominal size Class 2 FCR, compacted to at least 98% Modified Dry Density Ratio with a mean value of at least 100% Modified Dry Density Ratio and within 1% of the Modified Optimum Moisture Content	130
UPPER PAVEMENT TOTAL		200
SUB-BASE COURSE (Standard Quality)	20mm nominal size Class 3 FCR, compacted to at least 95% Modified Dry Density Ratio with a mean value of at least 98% Modified Dry Density Ratio and within 1% of the modified Optimum Moisture Content.	100
CAPPING LAYER	Select granular material with a minimum soaked CBR of 10% compacted to 98% Standard Dry Density Ratio with a mean value of at least 100% Standard Dry Density Ratio and within 1% of the Standard Optimum Moisture Content and a percentage swell of less than 15%	160
CONSTRUCTION LAYER	Select granular material with a minimum soaked CBR of 10% compacted to 98% Standard Dry Density Ratio with a mean value of at least 100% Standard Dry Density Ratio and within 1% of the Standard Optimum Moisture Content and a percentage swell of less than 15%	150
TOTAL PAVEMENT DEPTH		610
SUBGRADE	Natural Silty CLAY tested to confirm an in-situ CBR of at least 2.0% OR approved FILL compacted to at least 100% Standard Dry Density ratio (soaked CBR \geq 3.0%) within 2% of the Standard Optimum Moisture Content	

DESIGN PAVEMENT PROFILE FOR AREA 4

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		AREA 4
WEARING COURSE	Size 14mm Type N Asphalt with a C320 binder	40
STRUCTURAL COURSE	Size 14mm Type HP Asphalt with a A10E binder	40
WATER-PROOFING COURSE	SAMI seal with Class S18RF binder and bituminous prime	10
BASE COURSE (High Quality)	20mm nominal size Class 2 FCR, compacted to at least 100% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	110
UPPER PAVEMENT TOTAL		200
SUB-BASE COURSE (High Quality)	20mm nominal size Class 3 FCR, compacted to at least 98% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	160
CAPPING LAYER	Select granular material with a minimum soaked CBR of 10% compacted to 98% Standard Dry Density Ratio with a mean value of at least 100% Standard Dry Density Ratio and within 1% of the Standard Optimum Moisture Content and a percentage swell of less than 15%	200
CONSTRUCTION LAYER	Select granular material with a minimum soaked CBR of 10% compacted to 98% Standard Dry Density Ratio with a mean value of at least 100% Standard Dry Density Ratio and within 1% of the Standard Optimum Moisture Content and a percentage swell of less than 15%	150
TOTAL PAVEMENT DEPTH		710
SUBGRADE	Natural Silty CLAY tested to confirm an in-situ CBR of at least 2.0% OR approved FILL compacted to at least 100% Standard Dry Density ratio (soaked CBR \geq 3.0%) within 2% of the Standard Optimum Moisture Content	

PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY CARDNO VICTORIA PTY LTD WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF CARDNO VICTORIA PTY LTD

THE DESIGN HAS BEEN EXTRACTED FROM THE CARDNO VICTORIA PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION FOR PROPOSED RESIDENTIAL SUBDIVISION REDSTONE HILL SUNBURY SOUTH" V180556 REPORT 013. 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.

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ABN 55 050 029 635



Communities Designed for Living

Designed
R. WEINBER

Authorised
M. TOOMER-SMITH



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Checked
D CAMERON

Date
17/01/22

REDSTONE ESTATE
STAGE 9A
PAVEMENT DETAILS

VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED

Drg No
305920R12

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LEGEND

1

STREET NAME

STREET NAME PLATES TO BE IN ACCORDANCE WITH HCC SD408 & SD412, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.

2

ROAD CLOSED

G9-20

3

D4-5

TGSI KERB RAMP

HAZARD / DIRECTIONAL TGSIS SHOW INDICATIVELY. FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH EDM 403. TGSIS SHALL CONFORM TO AS1428.4

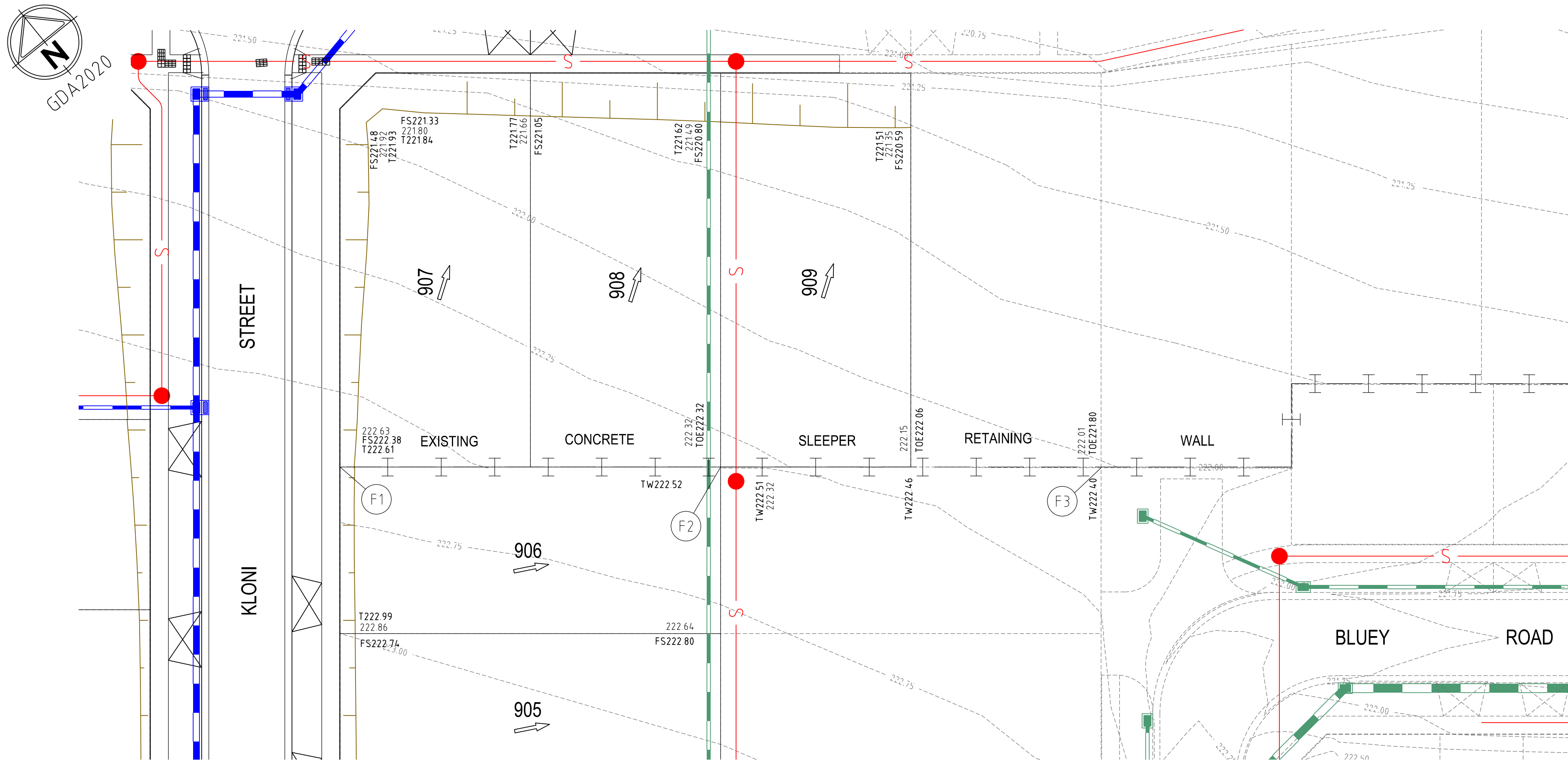
TGSI DIRECTIONAL

1-WAY RRPM (5m SPACING)

NOTE:

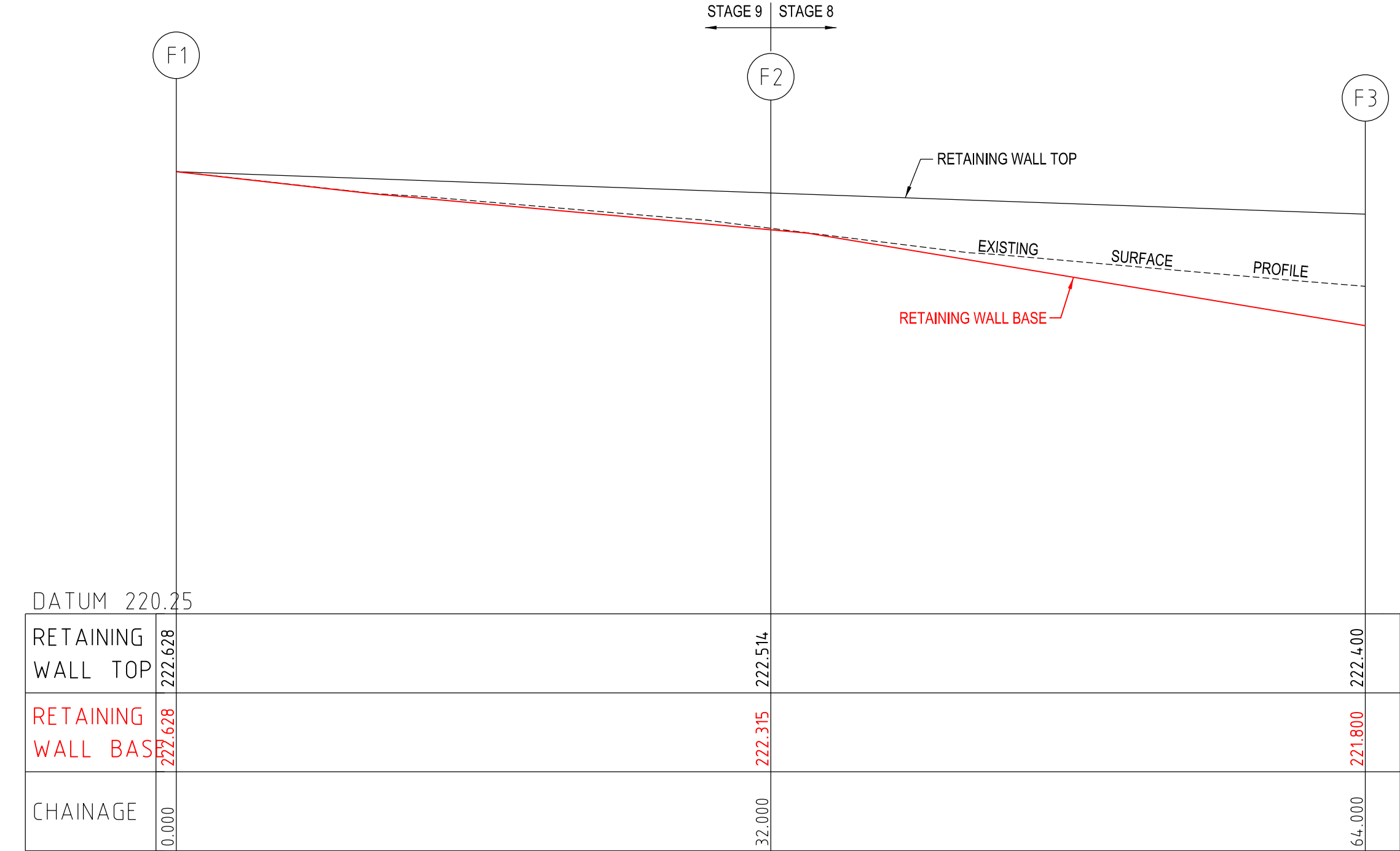
1. STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

NOTIONAL CARPARKING SPACES



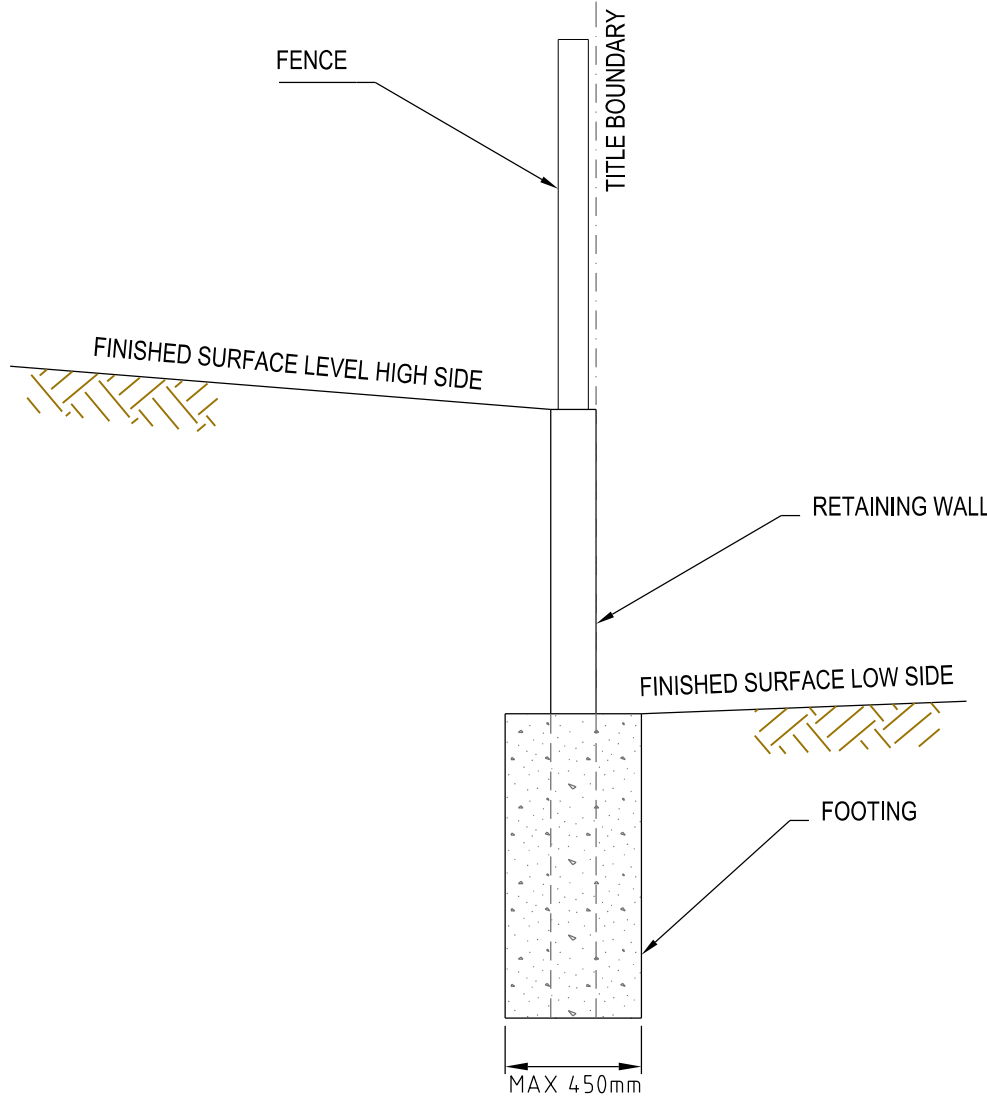
LEGEND SPOT LEVLES

TW = TOP WALL LEVEL
TOE = TOE WALL LEVEL
FS = TITLE BOUNDARY FINISHED LEVEL



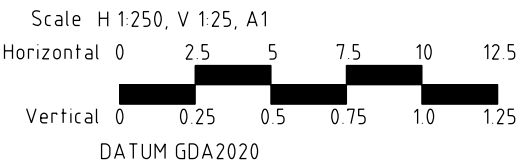
RETAINING WALL F
Hor250
Ver25

- NOTE:
THE RETAINING WALL PLAN IS NOT PART OF THE SUBDIVISIONAL WORKS OR APPROVAL. IT IS SUBJECT TO SEPARATE APPROVAL. THIS SHEET IS SUPPLEMENTARY TO THE ENGINEERING DRAWINGS.
- NOTE:
FOR LEVELS OF RETAINING WALLS FRONTING STREETS, REFER TO RELEVANT ROAD/STREET LONGITUDINAL SECTIONS.
- NOTE:
AG DRAINS BEHIND RETAINING WALLS TO DISCHARGE INTO PROPERTY DRAINAGE CONNECTIONS.



SLEEPER RETAINING WALL TYPICAL DETAIL
NTS

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AS/NZS ISO 9001

certified

AS/NZS ISO 14001

certified

AS/NZS ISO 45001

certified

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ABN 55 050 029 635

villawood properties

Communities Designed for Living

Designed

R. WEINBER

Authorised

M. TOOMER-SMITH

Redstone.

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Checked

D. CAMERON

Date

17/01/22

REDSTONE ESTATE

STAGE 9A

RETAINING WALL DETAILS

VILLAWOOD PROPERTIES

HUME CITY COUNCIL

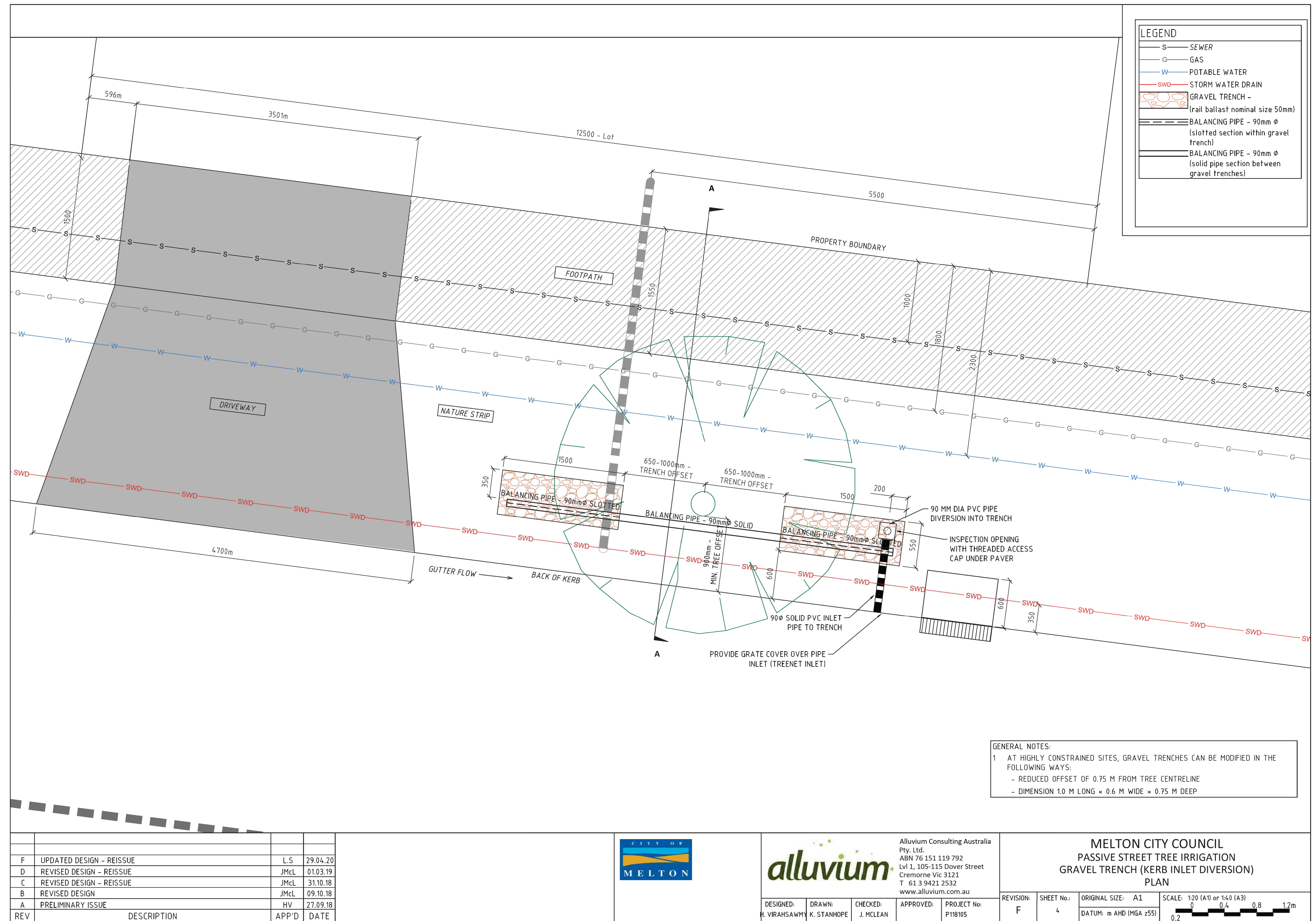
AS CONSTRUCTED

Drg No

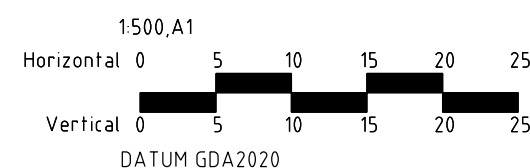
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R. WEINBER
Authorised
M. TOOMER-SMITH

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Checked
D CAMERON
Date
20/12/21

REDSTONE ESTATE
STAGE 9A
ROAD AND DRAINAGE
PASSIVE IRRIGATION TYPICAL DETAILS SHEET 1
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
AS CONSTRUCTED
Drg No 305920R15
Rev 0

TOP OF GRAVEL TRENCH TO BE LINED WITH NON-WOVEN GEOTEXTILE MATERIAL
AS SHOWN TO PREVENT FINE MIGRATION INTO THE TRENCH
PASSIVE IRRIGATION PIPES AND FITTINGS TO BE 90 MM DIAMETER PVC SEWER
CLASS
ALL PVC JOINTS TO BE SEALED WITH SOLVENT CEMENT
ALL GRASSED AREAS TO BE TOP DRESSED WITH 100 MM TOPSOIL AND SEEDED
AS SPECIFIED
SERVICE DEPTHS AND LOCATIONS ARE INDICATIVE ONLY
WHERE THE VERGE IS LESS THAN 4.2m (TYPICAL) A SPECIFIC DETAIL SHALL BE
SHOWN ON THE ENGINEERING DRAWINGS THAT RETAINS THE PRINCIPALS AND



1:10 (A1)

F	UPDATED DESIGN	L.S	29.04.21
D	REVISED DESIGN - REISSUE	JMcL	30.11.18
C	REVISED DESIGN - REISSUE	JMcL	31.10.18
B	REVISED DESIGN	JMcL	09.10.18
A	PRELIMINARY ISSUE	HV	27.09.18
REV	DESCRIPTION	APP'D	DATE



DESIGNED: H. VIRAHSAWMY	DRAWN: K. STANHOPE	CHECKED: J. MCLEAN	APPROVED:	PROJECT No: P118105
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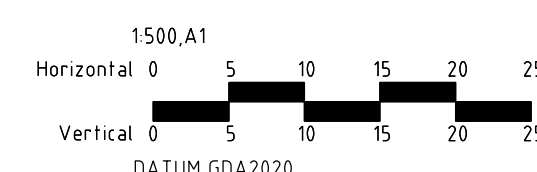
REVISION:	F
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SHEET No.:	5
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ORIGINAL SIZE: A1
DATUM: m AHD (MGA 25

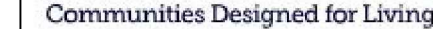
SCALE: 1:10 (A1) or 1:20 (A3)

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R. WEINBER

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M. TOOMER-SMITH

Checked
D CAMERON

Date
20/12/21

REDSTONE ESTATE
STAGE 9A
ROAD AND DRAINAGE
PASSIVE IRRIGATION TYPICAL DETAILS SHEET 2
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No **305920R16**