

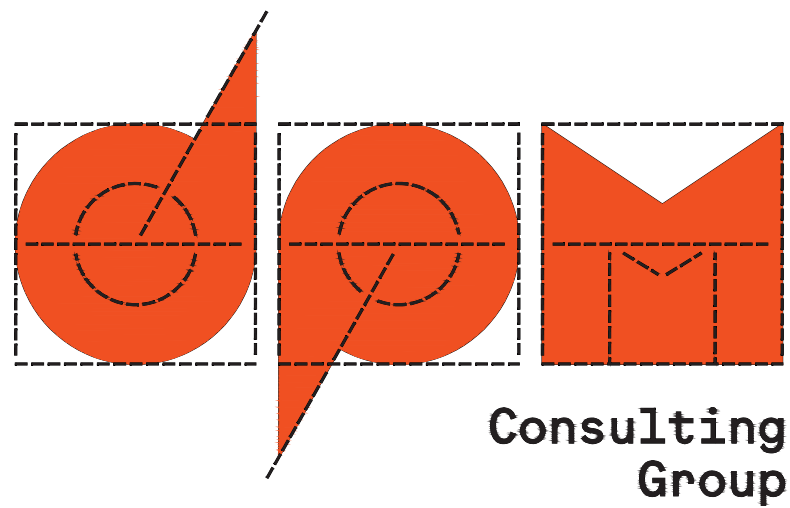
MODEINA STAGE 33

ROADS AND DRAINAGE

CITY OF MELTON

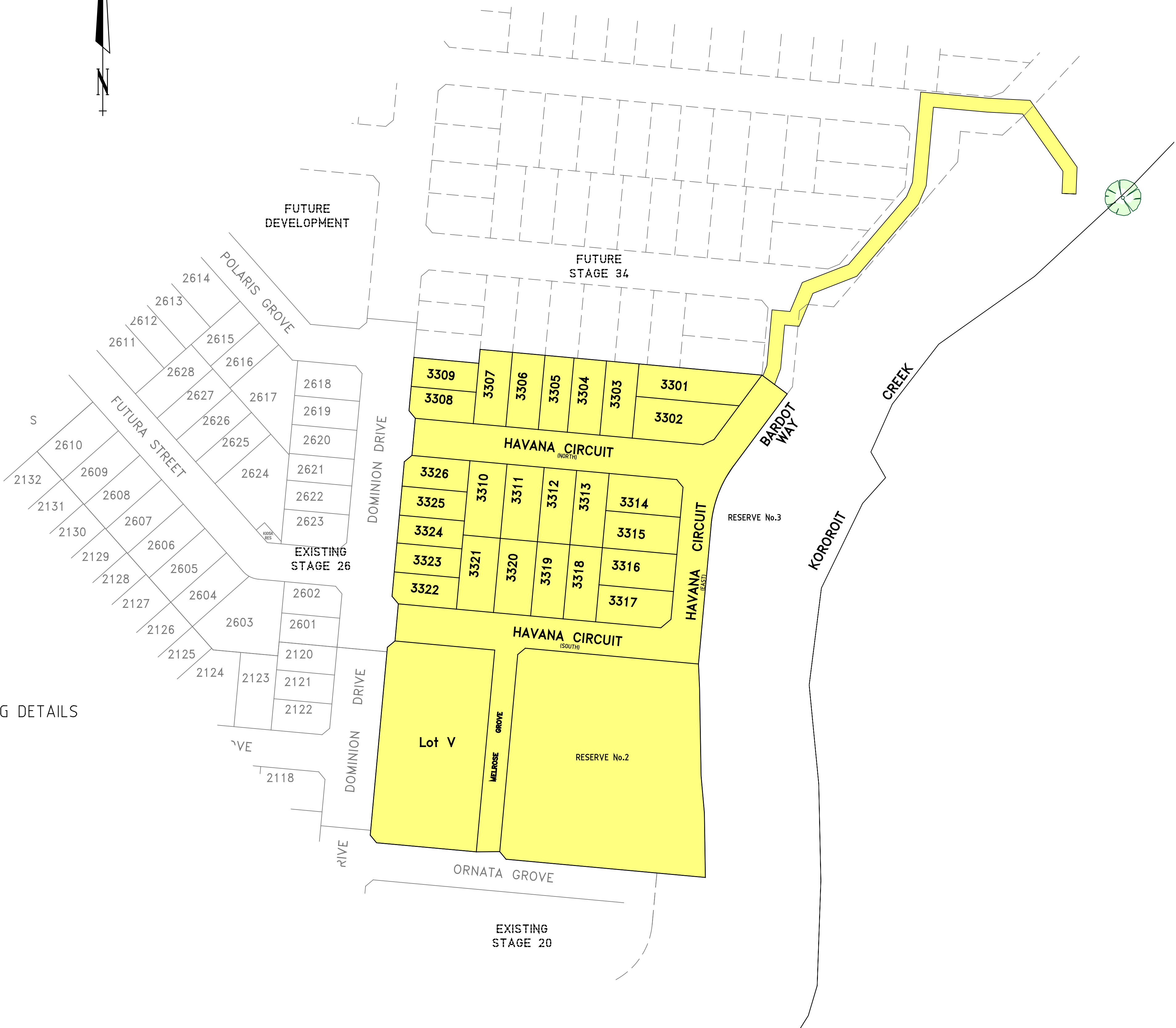


22 Business Park Drive Notting Hill 3168
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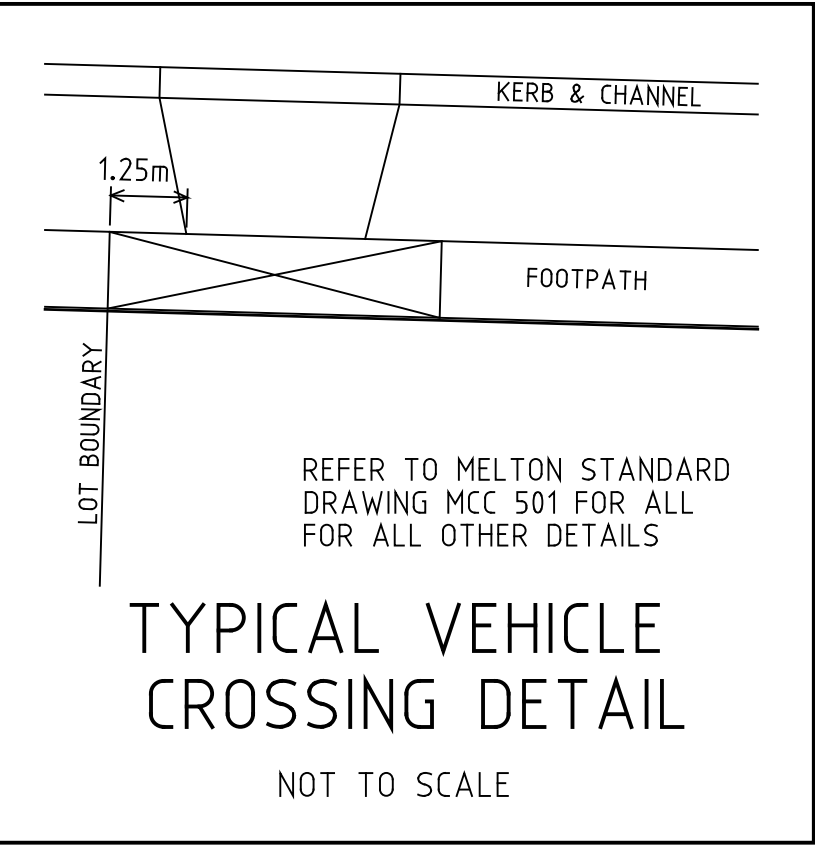


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AS CONSTRUCTED

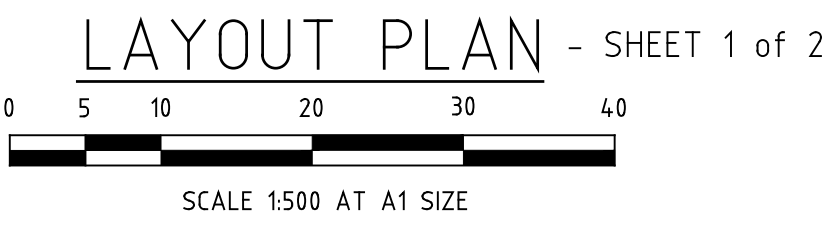


STREET	GAS		WATER		TELECOMMUNICATIONS		ELECTRICITY		LIGHTING COLUMN
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	
Ex.DOMINION DRIVE	Ex.W	2.25	Ex.W	2.68	Ex.E	2.85	Ex.E	3.60	1.00 BOK Ex
HAVANA CIRCUIT (SOUTH)	N	2.25	N	2.68	S	1.85	S	2.30	1.00 BOK
HAVANA CIRCUIT (EAST)	W	2.25	W	2.68	E	0.50	E	0.95	1.00 BOK
HAVANA CIRCUIT (NORTH)	N	2.25	N	2.68	S	1.85	S	2.30	1.00 BOK
MELROSE GROVE	W	2.00	W	2.50	E	0.50	E	1.00	1.50 N
BARDOT WAY	W	2.25	W	2.68	E	0.50	E	0.95	1.00 BOK

VEHICLE EXCLUSION FENCING IS TO BE PROVIDED TO THE PERIMETER OF RESERVE No2 AS A PART OF THE CIVIL WORKS. FENCING IS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL.

THESE DRAWINGS ARE TO BE USED ONLY FOR THE PURPOSE FOR WHICH THEY WERE INTENDED.
NO RESPONSIBILITY WILL BE BORNE BY THE ENGINEERING CONSULTANT SHOULD THESE DRAWINGS
BE USED FOR ANY OTHER PURPOSE.

AS CONSTRUCTED



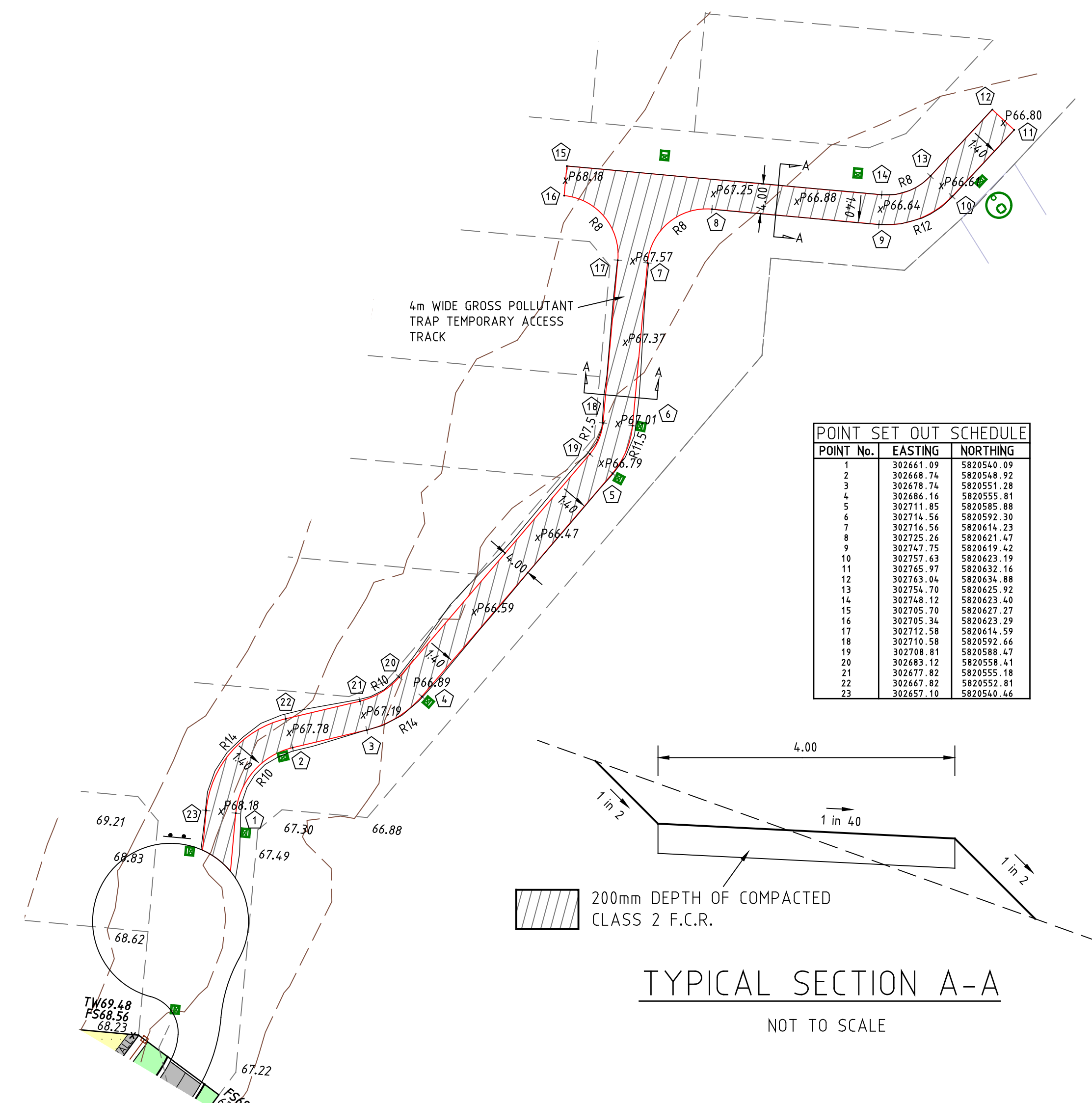
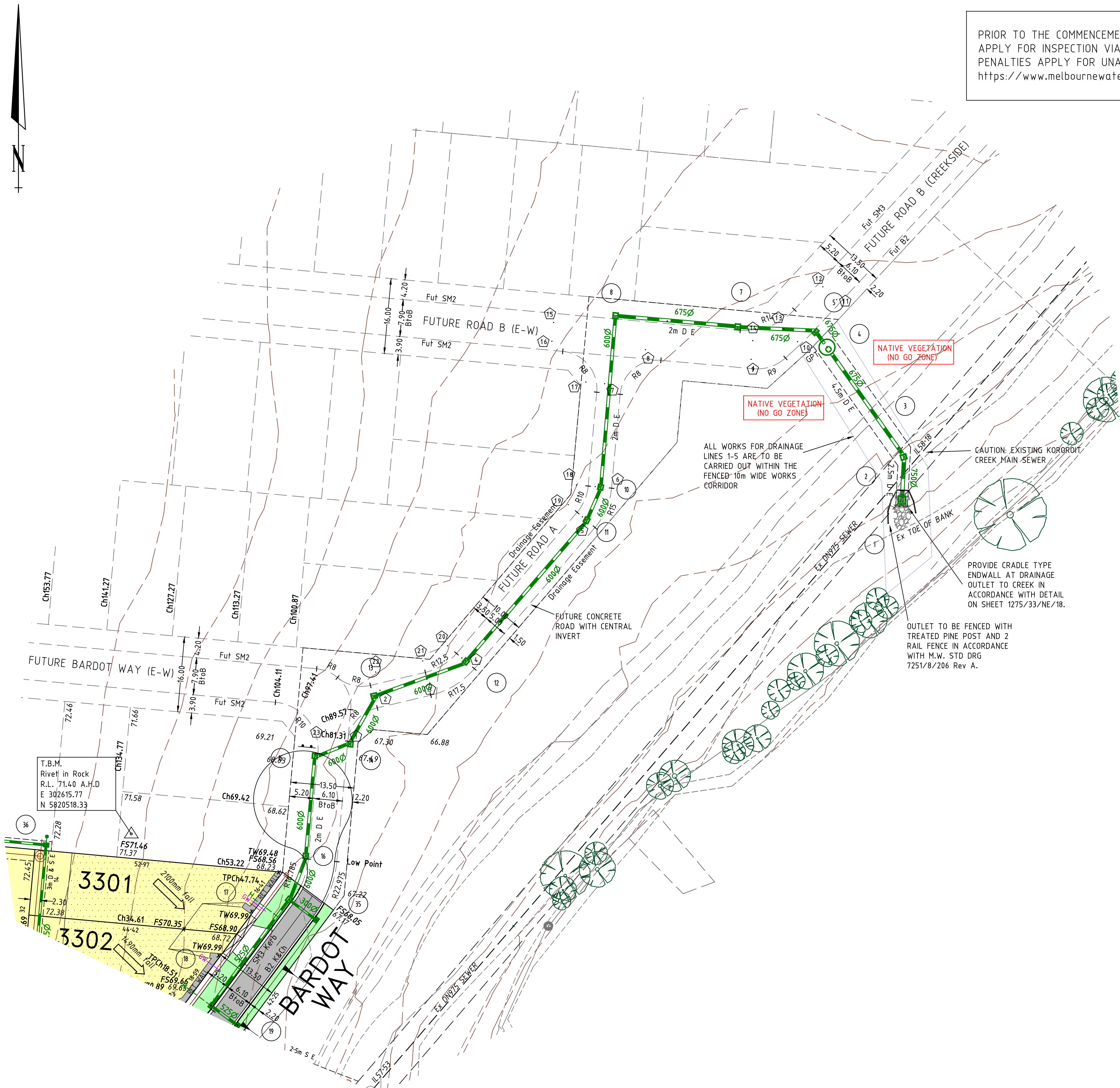
				LEGEND				
				G	Gas Main	H	HOUSE DRAIN PROPOSED/EX.	CHANGES AND TANGENT POINTS
				W	WATER MAIN	PI	PROPERTY INLET, DRAINAGE PITS	EXISTING SURFACE LEVEL
				R	RECYCLED WATER MAIN	EX/FUT. INLET, DRAINAGE PITS	F521.35	FINISHED LEVEL (TITLE BOUNDARY)
				E	ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35	DESIGN TOP/OT OF BATTER LEVEL
				T	TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	P21.350	DESIGN PAYMENT LEVEL
				W	WATER CONDUIT	EXSEWER LINE & STRUCTURES	PROPOSED SURFACE LEVEL	EXISTING SURFACE LINE & LEVEL
				C	GAS CONDUIT	KERB AND CHANNEL		EXISTING CONTOUR LINE & LEVEL
				R	RECYCLED WATER CONDUIT	EX/FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm
				C	COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE		CATCH BASIN AND EX. LEVEL
				T	T.B.M.	STREET SIGN		EX. BATTER 1/4 PROP. BATTER
REV.	A5	AS CONSTRUCTED	22/06/2023	M.C				
	REVISION		DATE	APPD.				

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DRAWN: J. BEVERIDGE	AUTHORITY: CITY OF MELTON	SCALE 1:500	
DESIGNED: J.BEVERIDGE	PROJECT: MODEINA STAGE 33 ROADS AND DRAINAGE DETAILS: LAYOUT PLAN - SHEET 1 OF 2 & SERVICES OFFSET TABLE	LEVEL DATUM AHD	
CHECKED: M. COLE		SHEET 2 OF 20	
AUTHORISED: T. VETTIVEL		DRAWING No.	REV.
DATE: 27/05/2022		1275/33/NE/2	AC1

PRIOR TO THE COMMENCEMENT OF WORKS ON MELBOURNE WATER'S ASSET, THE CONTRACTOR MUST APPLY FOR INSPECTION VIA THE LINK BELOW FOR APPROVAL/PERMITS TO WORK ON LIVE ASSET(S). PENALTIES APPLY FOR UNAUTHORISED WORKS.
<https://www.melbournewater.com.au/planning-and-building/apply-to-build-or-develop/inspection-work>.



POINT No.	EASTING	NORTHING
1	302661.09	5820540.09
2	302668.74	5820548.92
3	302678.74	5820551.28
4	302686.16	5820555.81
5	302711.85	5820585.88
6	302714.56	5820592.30
7	302716.56	5820614.23
8	302725.26	5820621.47
9	302747.75	5820619.42
10	302757.63	5820623.19
11	302765.97	5820632.16
12	302763.04	5820634.88
13	302754.70	5820625.92
14	302748.12	5820623.40
15	302705.70	5820627.27
16	302705.34	5820623.29
17	302712.58	5820614.59
18	302710.58	5820592.66
19	302708.81	5820588.47
20	302683.12	5820558.41
21	302677.82	5820555.18
22	302667.82	5820552.81
23	302657.10	5820516.46

TYPICAL SECTION A-A
NOT TO SCALE

GROSS POLLUTANT TRAP
TEMPORARY ACCESS TRACK LAYOUT
SCALE 1:500 AT A1 SIZE

REFER TO SHEET 1275/33/NE/2 FOR CONTINUATION

LAYOUT PLAN - SHEET 2 of 2
SCALE 1:500 AT A1 SIZE

LEGEND				CHANGES AND TANGENT POINTS		22 Business Park Drive Notting Hill 3168		Consulting Group		DRAWN: J. BEVERIDGE		AUTHORITY: CITY OF MELTON		SCALE 1:500	
AS CONSTRUCTED				22/06/2023		M.C.		22 Business Park Drive Notting Hill 3168		DESIGNED: J. BEVERIDGE		PROJECT: MODEINA STAGE 33		LEVEL DATUM AHD	
REVISION				DATE		APPD.		E: consulting@dpmvic.com.au		CHECKED: M. COLE		ROADS AND DRAINAGE		SHEET 3 OF 20	
REV.				REVISION		DATE		W: www.dpmvic.com.au		AUTHORISED: T. VETTIVEL		DETAILS: LAYOUT PLAN - SHEET 2 OF 2		DRAWING No. 1275/33/NE/3	
AS CONSTRUCTED				22/06/2023		M.C.		T: (03) 9538 5000		DATE: 27/05/2022		----		REV. AC1	

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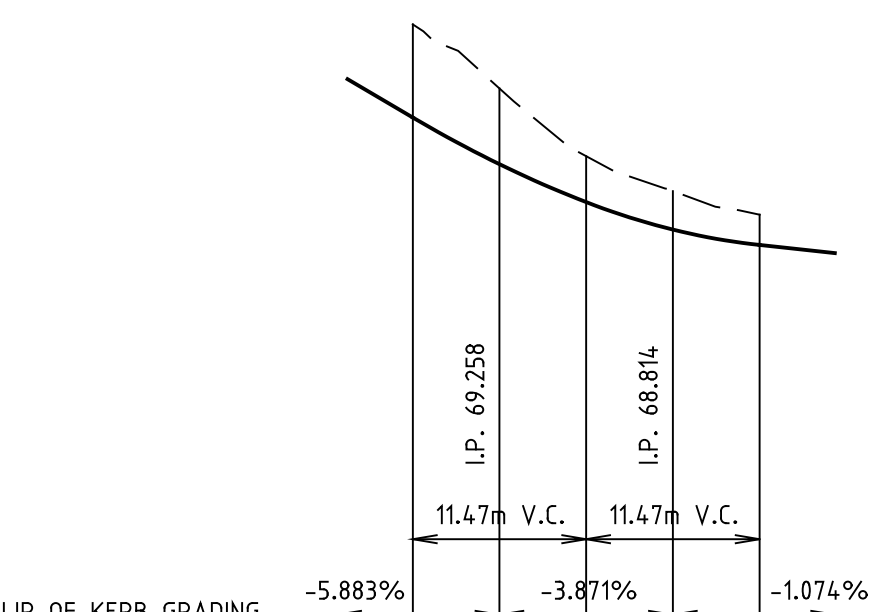
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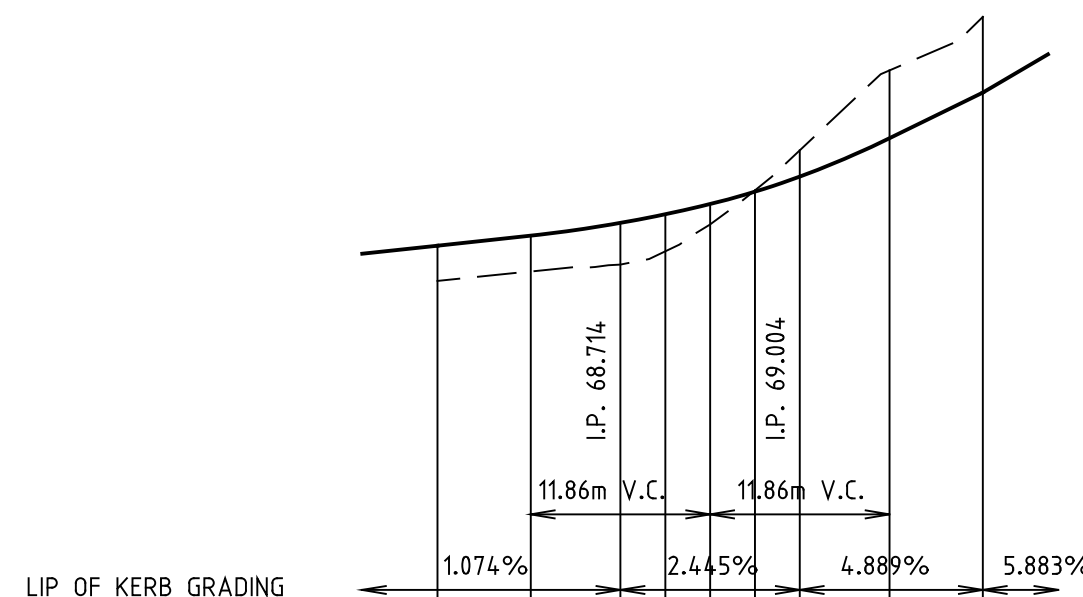
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DATUM 65				
LIP OF KERB DESIGN	49.595	49.287	49.036	48.753
EXISTING SURFACE LEVEL	70.21	69.79	69.33	68.95
CHAINAGE	0.00	5.73	11.47	22.93

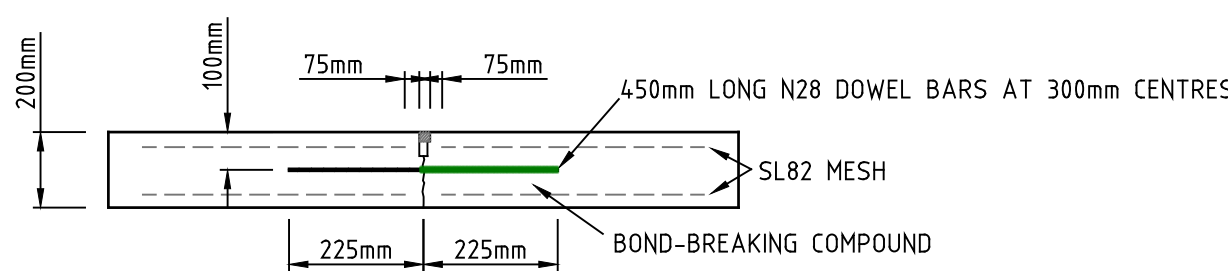
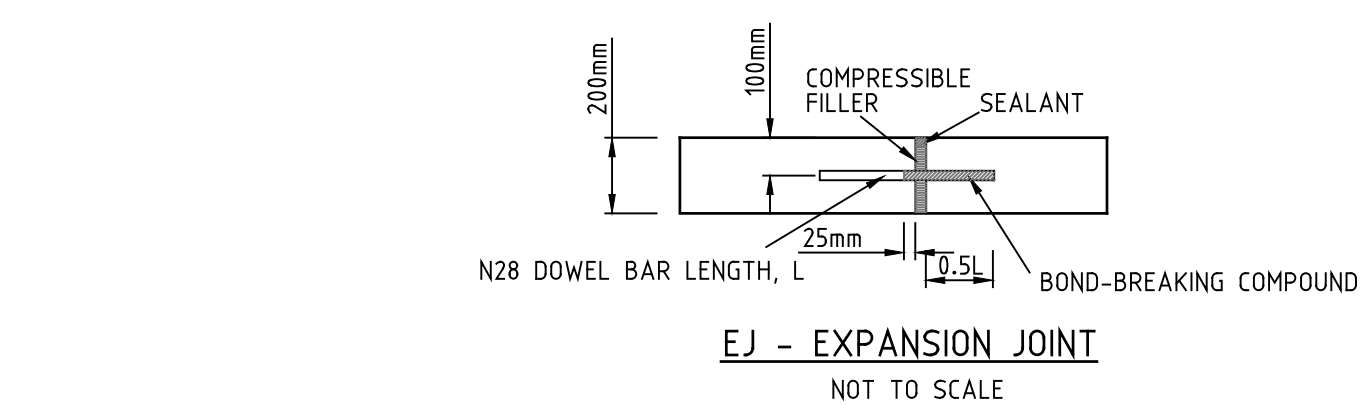
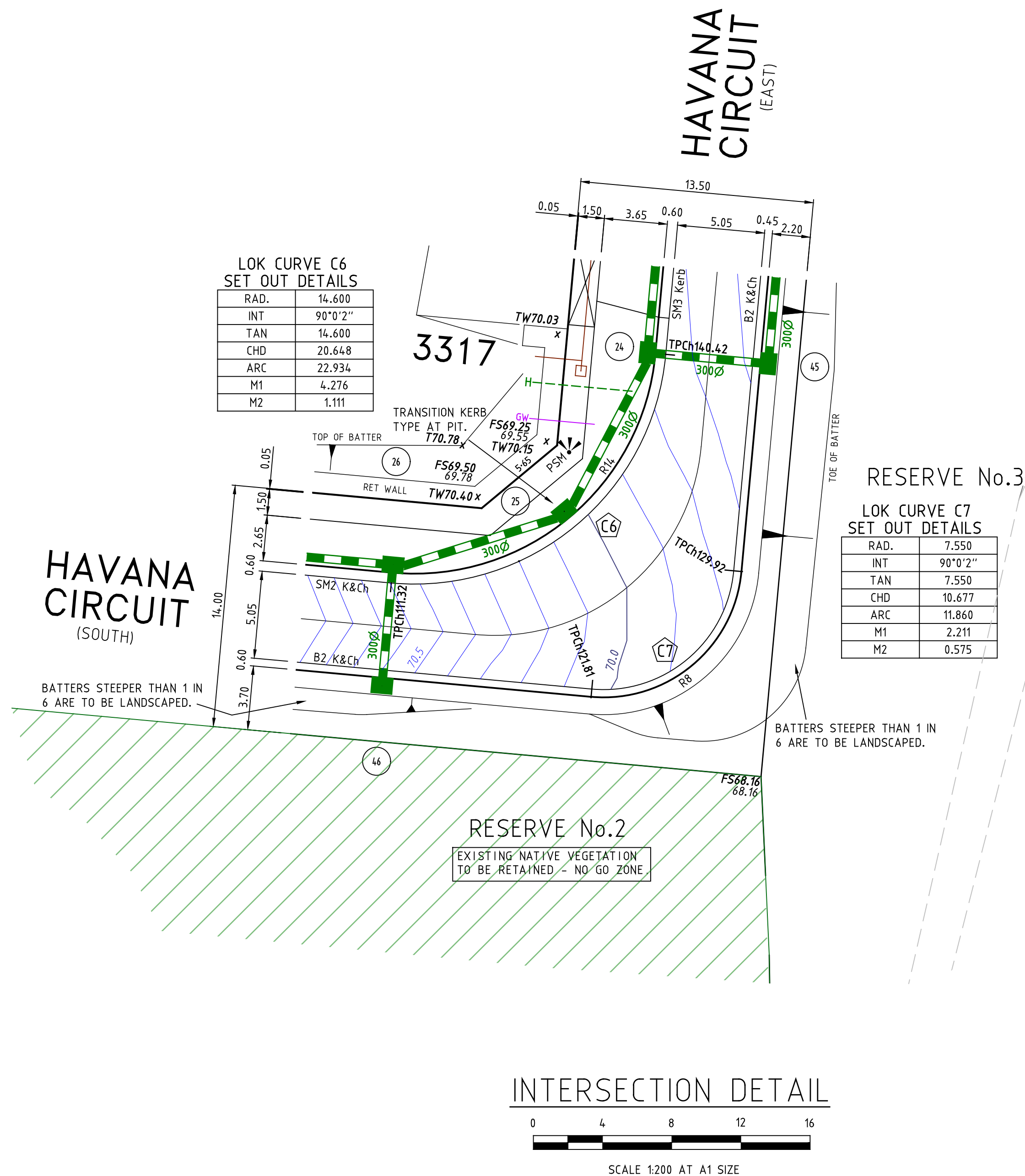
WEST LIP OF KERB
LONGITUDINAL SECTION



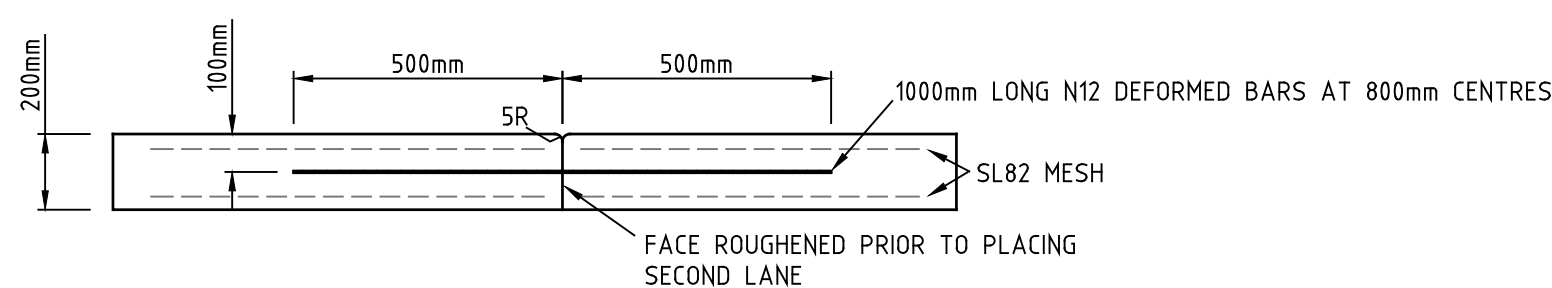
DATUM 65			
LIP OF KERB DESIGN	68.584	68.65	68.734
EXISTING SURFACE LEVEL	68.35	68.41	68.46
CHAINAGE	0.00	6.17	12.10

EAST LIP OF KERB
LONGITUDINAL SECTION

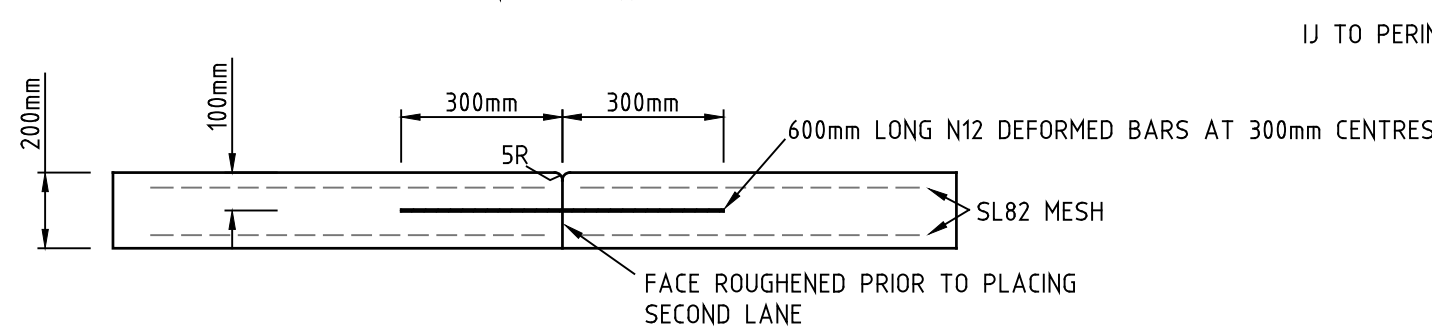
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LEVEL DATUM AHD	
SHEET 4 OF 20	
DRAWING No. 1275/33/NE/4	REV. AC1



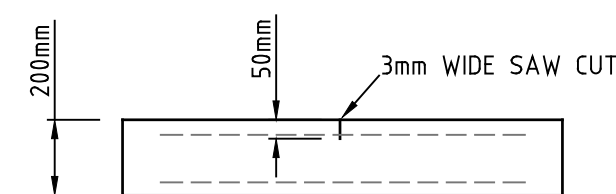
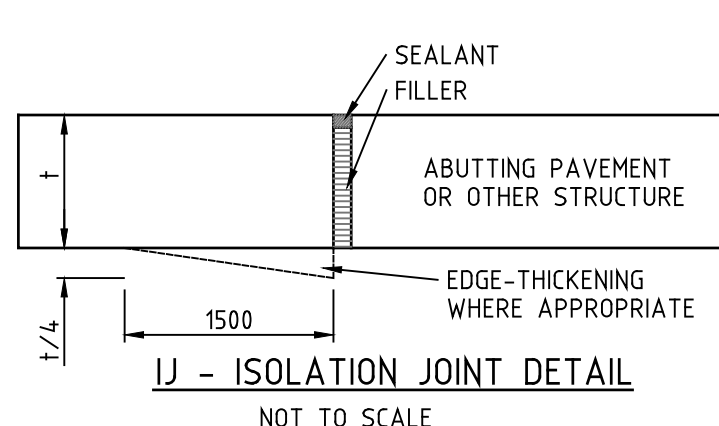
TCJ - TRANSVERSE CONTRACTION JOINT DETAIL
NOT TO SCALE



LCJ - LONGITUDINAL CONSTRUCTION JOINT DETAIL



CJ - TIED CONSTRUCTION JOINT DETAIL
NOT TO SCALE



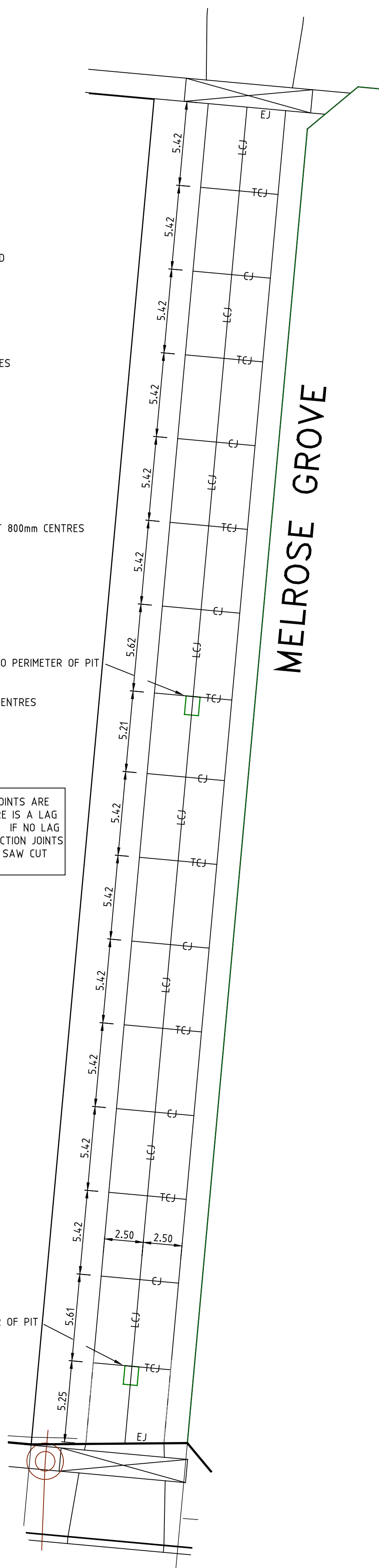
SCJ - SAW CUT JOINT
NOT TO SCALE

NOTE: CONSTRUCTION JOINTS ARE REQUIRED WHERE THERE IS A LAG TIME BETWEEN POURS. IF NO LAG OCCURS, THE CONSTRUCTION JOINTS CAN BE REPLACED BY SAW CUT JOINTS.

- LEGEND**
- | | |
|-------------|---|
| ____TCJ____ | TCJ - TRANVERSE CONTRACTION JOINT AS PER DETAIL |
| ____LCJ____ | LCJ - LONGITUDINAL CONSTRUCTION JOINT AS PER DETAIL |
| ____IJ____ | IJ - ISOLATION JOINT |
| ____CJ____ | CJ - TIED CONSTRUCTION JOINT |
| ____EJ____ | EJ - EXPANSION JOINT |

IJ TO PERIMETER OF PIT

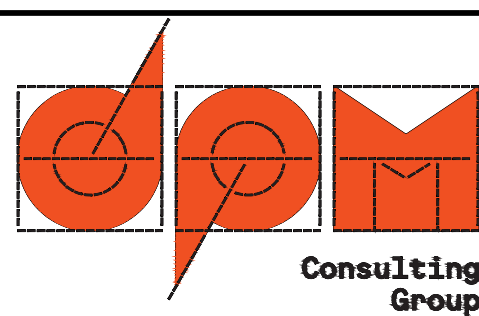
PAVEMENT JOINTING DETAILS



LEGEND

	G	WATER MAIN		H	HOUSE DRAIN PROPOSED/EX.		PROPOSED/EXISTING	CHANGELINES AND TANGENT POINTS
	W	WATER MAIN		P	PROPERTY INLET, DRAINAGE PITS		PROPOSED/EXISTING	EXISTING SURFACE LEVEL
	E	RECYCLED WATER MAIN		EX/FUT. INLET, DRAINAGE PITS		PROPOSED/EXISTING	FINISHED LEVEL (TITLE BATTERY)	
	E	ELECTRICITY CABLE		DRAINAGE PIT, STAG/NUMBER		PROPOSED/EXISTING	DESIGN TOP/TOE OF BATTERY LEVEL	
	T	TELECOMMUNICATIONS CABLE		SEWER LINE		PROPOSED/EXISTING	DESIGN PAVEMENT	
	W	WATER CONDUIT		EX-SEWER LINE AND STRUCTURES		PROPOSED/EXISTING	PROPOSED CONTOUR LINE & LEVEL	
	G	GAS CONDUIT		KERB AND CHANNEL		PROPOSED/EXISTING	EXISTING CONTOUR LINE & LEVEL	
	R	RECYCLED WATER CONDUIT		EX/FUT. KERB AND CHANNEL		PROPOSED/EXISTING	FILLING IN EXCESS OF 200mm	
	C	COMBINED SERVICES CONDUIT		KERB TO BE REMOVED OFF SITE		PROPOSED/EXISTING	CATCH BASIN AND INLET	
	U	URBAN STORMWATER		STREET SIGN		PROPOSED/EXISTING	EX. BATTERY	
	P	PROPOSED/EXISTING		PROPOSED/EXISTING		PROPOSED/EXISTING	PROP. BATTERY	

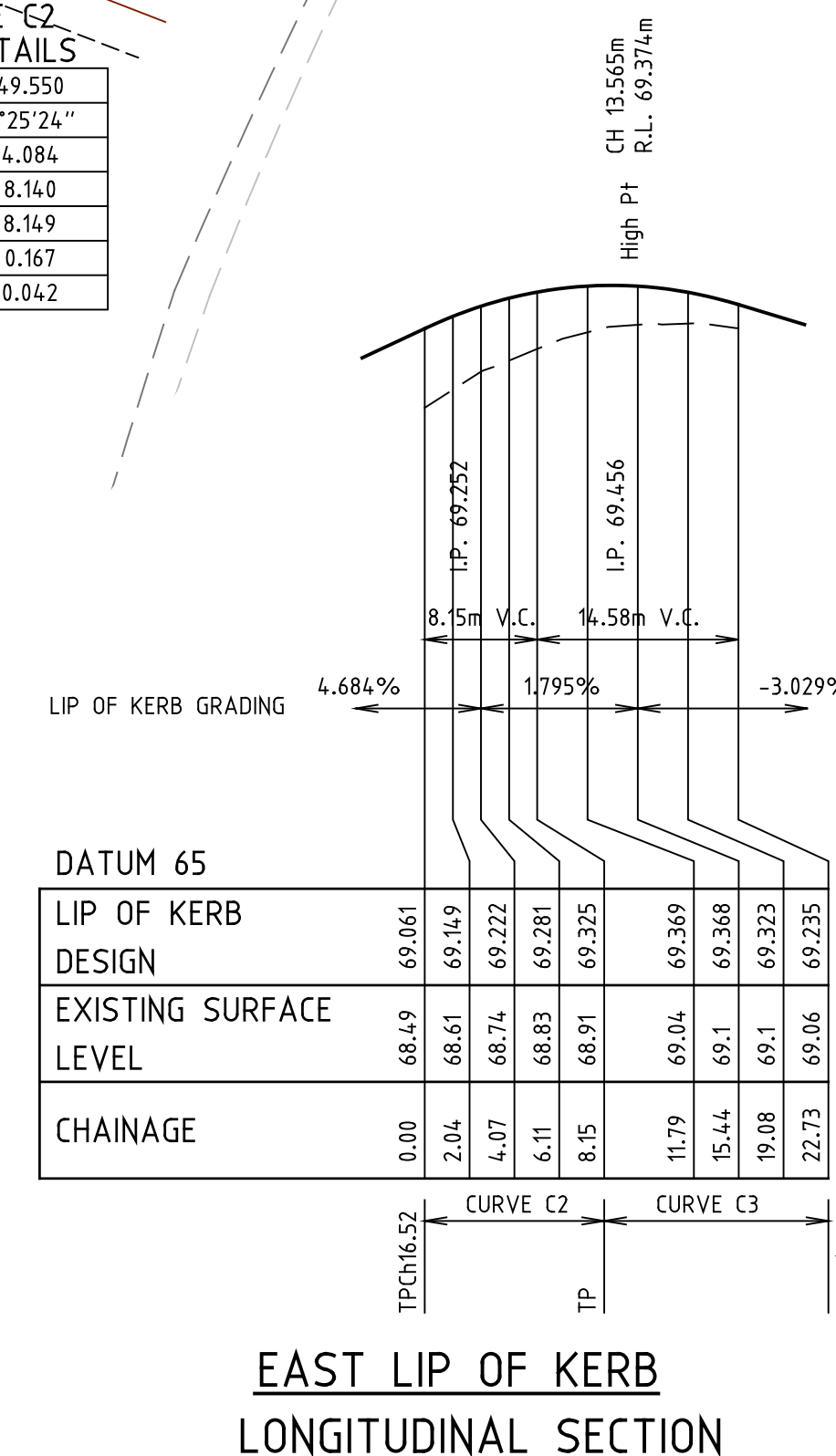
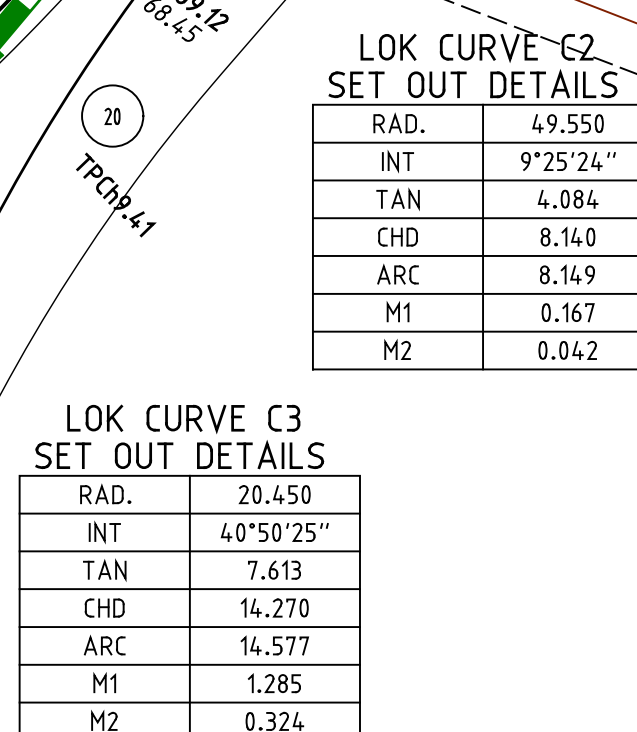
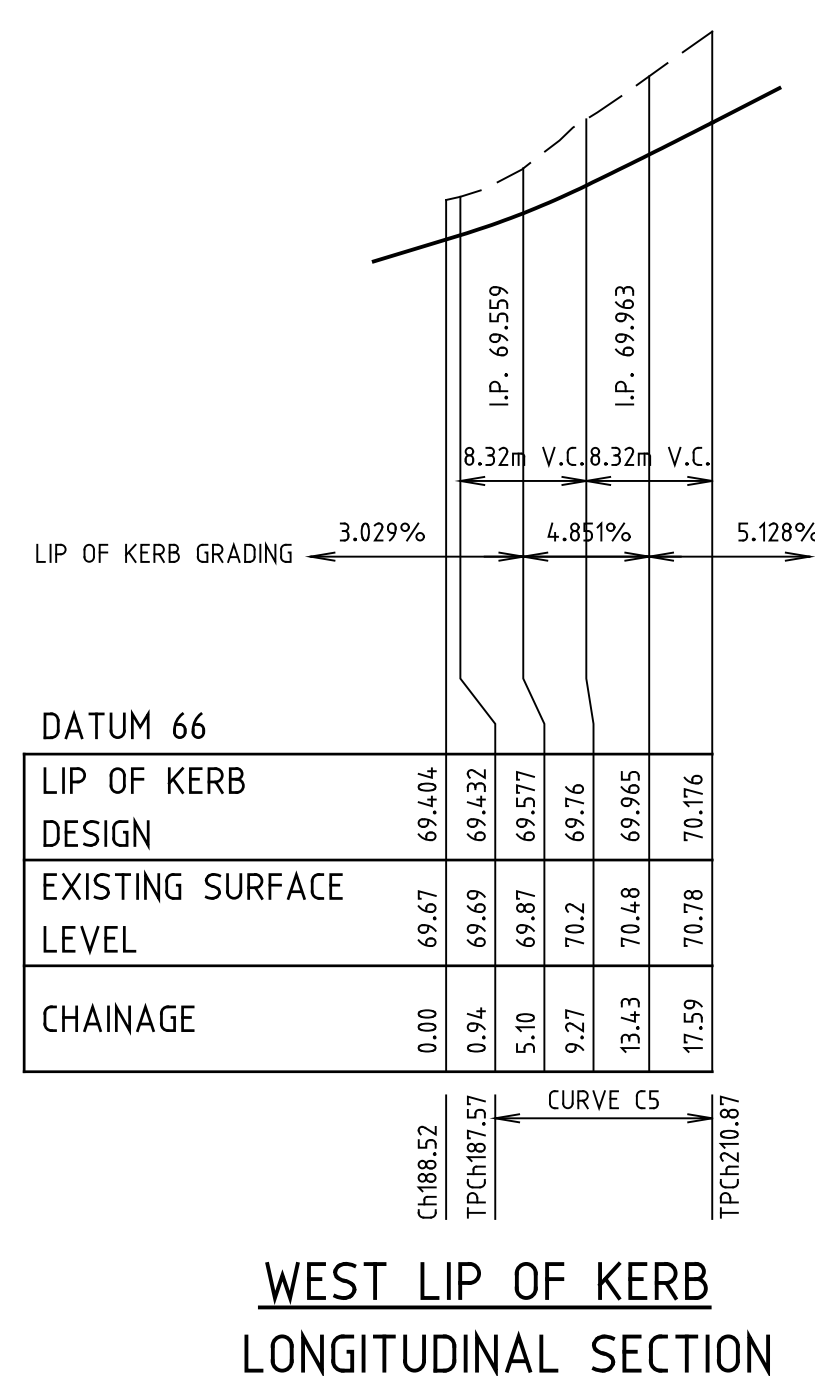
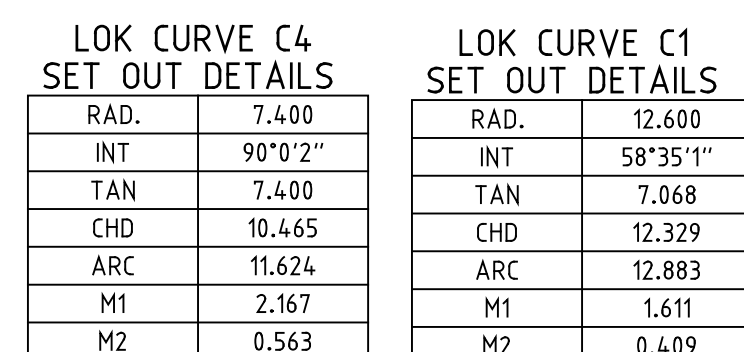
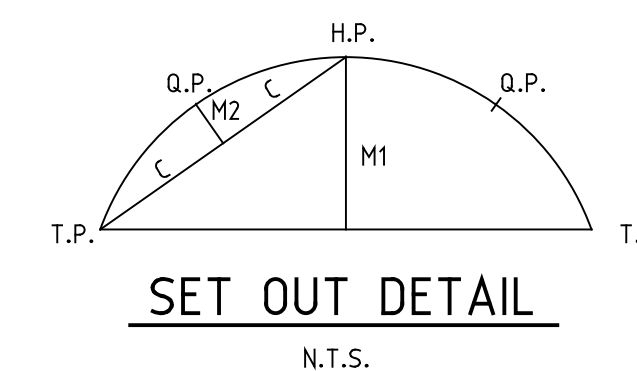
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DESIGNED:	J.BEVERIDGE
CHECKED:	M. COLE
AUTHORISED:	T. VETTIVEL
DATE:	27/05/2022

AUTHORITY:	CITY OF MELTON
PROJECT:	MODEINA STAGE 33 ROADS AND DRAINAGE
DETAILS:	INTERSECTION DETAILS - SHEET 1 OF 2 & PAVEMENT JOINTING DETAILS

AC1	AS CONSTRUCTED	22/06/2023	M.C.
REV.	REVISION	DATE	APPD



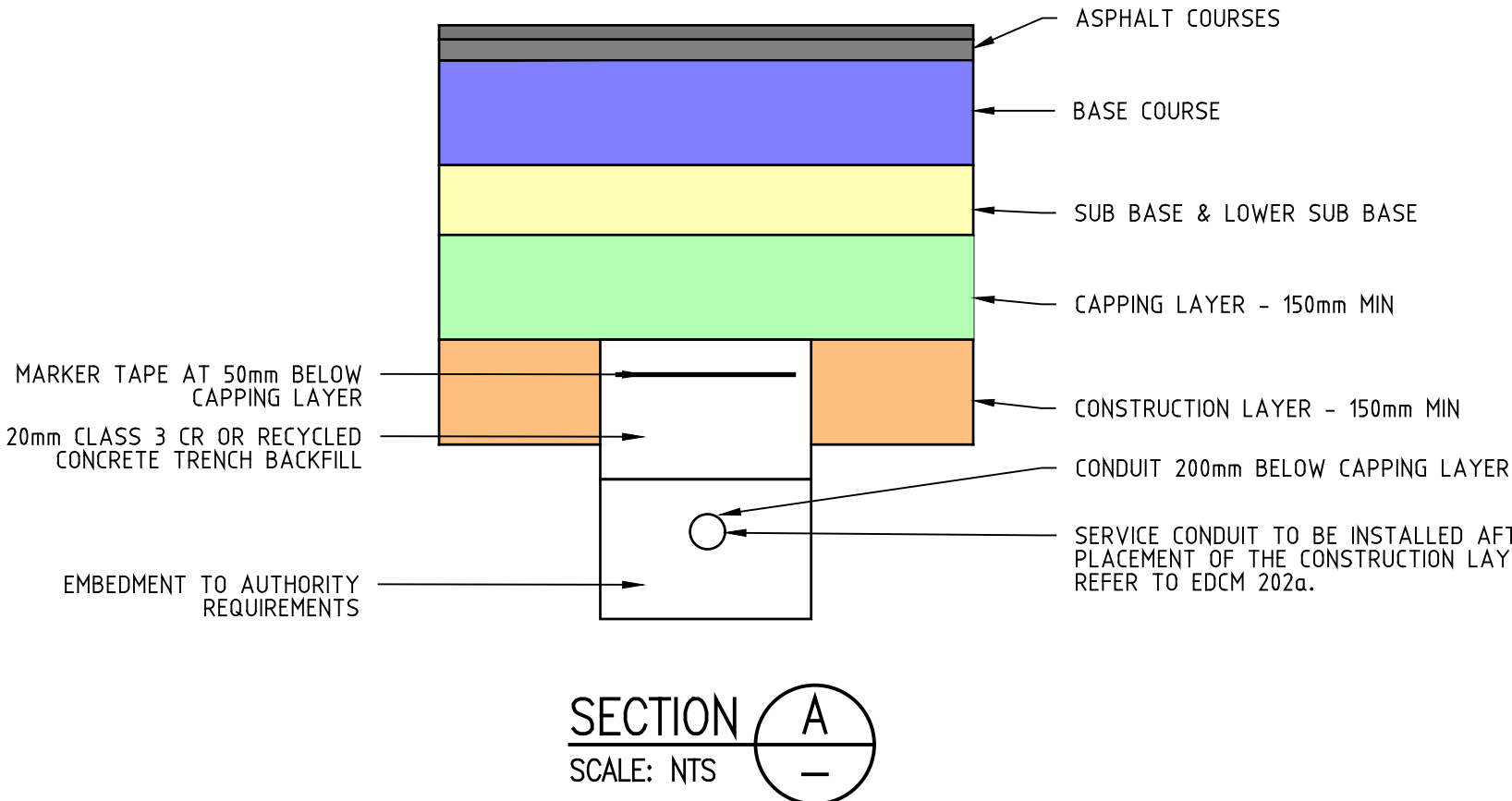
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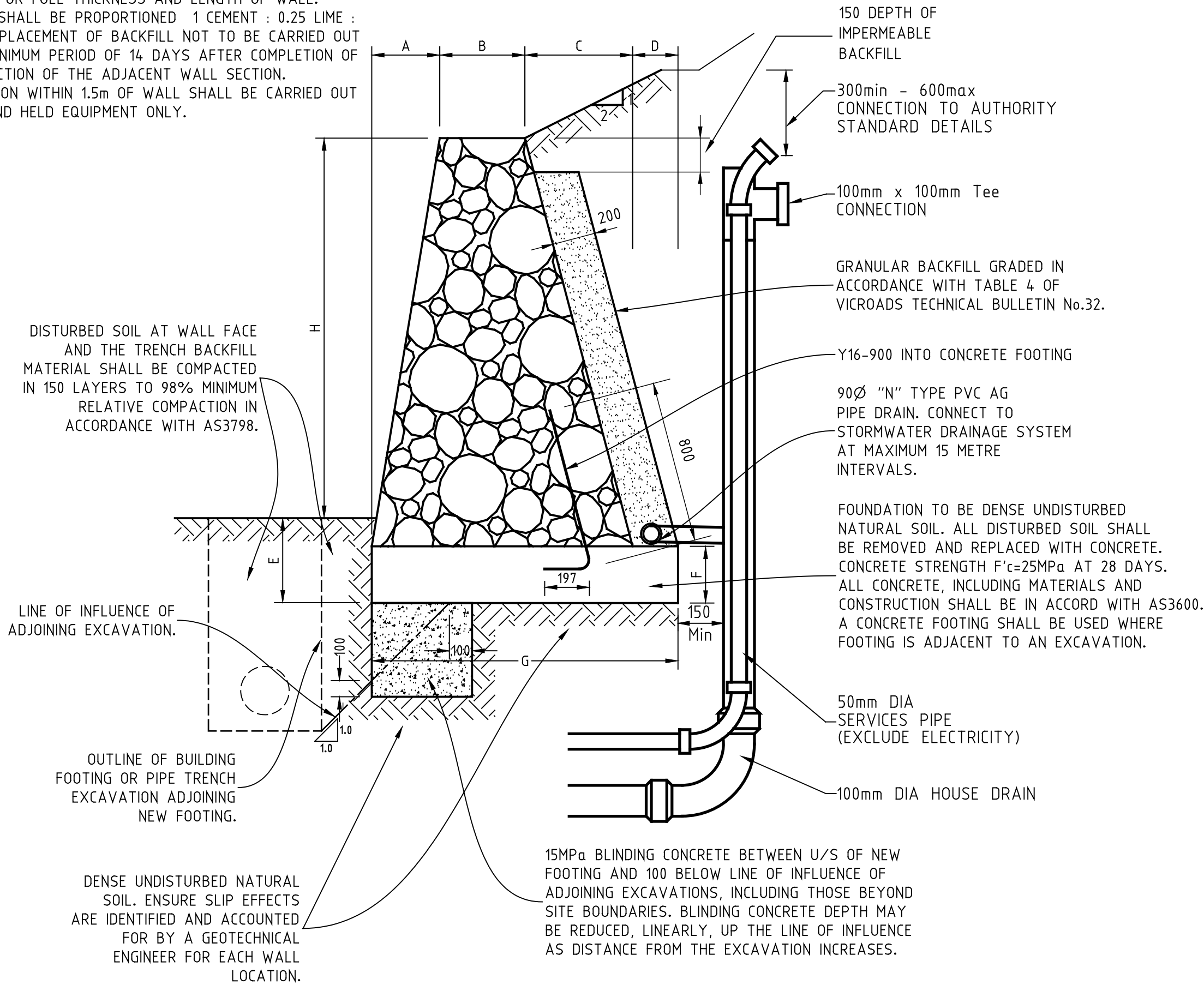
GENERAL NOTES

1. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE GROWTH AREAS AUTHORITY (G.A.A.) ENGINEERING DESIGN AND CONSTRUCTION MANUAL FOR SUBDIVISION IN GROWTH AREAS (APRIL 2010) AND TO THE SATISFACTION OF THE CITY OF MELTON'S CHIEF EXECUTIVE OFFICE OR HIS/HER NOMINATED REPRESENTATIVE. COUNCIL'S SENIOR SUBDIVISION APPROVALS ENGINEER IS TO BE NOTIFIED IN WRITING, SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS.
2. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR SEVEN DAYS PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
3. CHAINAGES REFER TO CENTRELINE OF ROAD RESERVE UNLESS INDICATED OTHERWISE.
4. THE NATURE STRIPS AND CUT OR FILLED AREAS ON ALLOTMENTS ARE TO BE TOPSOILED WITH 100mm OF APPROVED MATERIAL. IF THE STRIPPED MATERIAL ON SITE IS NOT SUITABLE, THE TOPSOIL SHALL BE IMPORTED AT THE CONTRACTOR'S EXPENSE.
5. ALL ALLOTMENTS SHALL BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE WITH A MINIMUM FALL OF 1 in 150 TO THE DRAINAGE OUTLET SHOWN.
6. ALL EASEMENT DRAINS ARE TO BE OFFSET 1.00m FROM PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN.
7. ALL DRAINAGE PIPES UNDER ROAD PAVEMENTS, FOOTPATHS OR DRIVEWAYS, ETC. SHALL BE BACKFILLED WITH FINE CRUSHED ROCK IN ACCORDANCE WITH THE CITY OF MELTON ROAD & DRAINAGE SPECIFICATION.
8. UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED UP, GRADED AND ALL RUBBISH REMOVED AND LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
9. TELECOMMUNICATIONS CONDUITS WILL BE SUPPLIED AND LAID BY OTHERS AND THE TRENCHES EXCAVATED AND BACKFILLED BY THE CONTRACTOR. THE CONTRACTOR SHALL GIVE THE TELECOMMUNICATIONS AREA ENGINEER 7 DAYS NOTICE PRIOR TO COMMENCING TRENCHING WORK.
10. TRENCHING FOR UNDERGROUND ELECTRICAL CABLES, SUPPLY AND INSTALLATION OF CONDUITS, AND SUPPLY AND PLACEMENT OF BACKFILL IS TO BE UNDERTAKEN BY THE CONTRACTOR UNDER THE THE SUPERVISION OF THE RELEVANT ELECTRICAL AUTHORITY.
11. THE CONTRACTOR SHALL CO-OPERATE WITH OTHER CONTRACTORS AND/OR AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE TO BE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE.
12. WHEN ROADWAYS ARE TRUNCATED AGAINST RISING LANDS PENDING DEVELOPMENT OF FUTURE STAGES, TEMPORARY A.G. DRAINS SHALL BE INSTALLED ACROSS THE END OF ROAD TO PREVENT SEEPAGE INTO THE PAVEMENT.
13. THE CONTRACTOR WHEN ENGAGED IN BLASTING OPERATION, SHALL NOT BLAST WITHIN 4.5m OF AN EXISTING LINE OF WATER, GAS OR SEWER PIPES OR WITHIN 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT THE CONSENT OF THE SUPERINTENDENT.
14. PROPERTY INLETS AND HOUSE DRAINS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH E.D.C.M. STANDARD DRAWINGS 701, 702, 703 & 704. HOUSE DRAINS FOR ALLOTMENTS SHALL BE AT A SUFFICIENT DEPTH TO CONTROL DISCHARGE AT A MINIMUM OF 1 in 100 FALL FROM ALL POINTS WITHIN THE PROPERTY AREA, AND SHALL BE CONNECTED TO UNDERGROUND DRAINS IN ROAD RESERVES WHERE POSSIBLE WITH 600mm MINIMUM COVER AT THE PROPERTY LINE. PROPERTY INLETS ARE TO BE A MINIMUM DEPTH OF 500mm BELOW FINISHED SURFACE LEVEL. HOUSE DRAINS ARE TO BE LOCATED 5.50m FROM THE LOW SIDE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN.
15. ALL STORMWATER DRAINS SHALL BE R.C.P CLASS 2 UNLESS OTHERWISE STATED. ALL PIPES LESS THAN OR EQUAL TO 525mm DIA ARE TO BE RUBBER RING JOINTED. ALL DRAINS BEHIND KERB & CHANNEL SHALL BE BACKFILLED WITH CLASS 3 C.R. (20mm NOM. SIZE). ALL DRAINS AND SEWERS BENEATH THE ROAD PAVEMENT AND CONCRETE FOOTPATHS, DRIVEWAYS OR ANY SEALED SURFACE AND KERB & CHANNEL SHALL BE BACKFILLED WITH 20mm NOM. SIZE CLASS 2 C.R. ALL BACKFILLING TO BE COMPACTED TO 95% MINIMUM DRY DENSITY.
16. BEFORE COMMENCING WORK ON DRAINS IN EXCESS OF 1.5 METRES DEEP A NOTICE OF SUCH A PROPOSAL IS TO BE SENT TO THE OCCUPATION HEALTH AND SAFETY AUTHORITY IN ACCORDANCE WITH CLAUSE 5.1.27 OF THE OCCUPATIONAL HEALTH & SAFETY REGULATIONS ACT 2007. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE STABLE CONDITION AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS. A FOREMAN QUALIFIED AS AN EVACUATION SUPERVISOR, MUST BE IN ATTENDANCE AT ALL TIMES DURING SUCH EXCAVATIONS.
17. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS G, W, T, E AND H ABOVE THE SERVICE LOCATIONS AS SPECIFIED.
18. CUT BATTERS ARE NOT TO EXCEED 1 in 6 AND FILL BATTERS ARE NOT TO EXCEED 1 in 6 UNLESS INDICATED OTHERWISE. CUT BATTERS TO BE GRASSED, MULCHED WITH A MIXTURE OF CHOPPED GRASS, HAY, STRAW AND BITUMINOUS EMULSION TO THE SATISFACTION OF THE CITY OF MELTON SUPERVISING ENGINEER. CUT BATTERS WITHIN PROPERTIES ADJACENT TO VEHICLE CROSSINGS ARE NOT TO EXCEED 1in6.
19. DRIVEWAY & PRAM CROSSINGS SHOWN ON THESE PLANS ARE DIAGRAMMATIC ONLY. FOR PRAM CROSSING DETAILS REFER TO STD DRG EDM 403. FOR VEHICLE CROSSING DETAILS REFER TO CITY OF MELTON STD DRG MCC 501.
20. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH AS 1742.5 & THE CURRENT CITY OF MELTON REQUIREMENTS INCLUDING THE PROVISION OF LOGOS.
21. THE CONTRACTOR IS TO ENSURE THAT HIS CONSTRUCTION PROCEDURES AND STANDARDS CONTROL THE VOLUME AND LOCATION FOR COLLECTION OF SEDIMENT DISCHARGE ACCORDING TO CURRENT BEST PRACTICES.
22. OPTUS AND TELSTRA SERVICE CONDUITS ARE TO BE EXTENDED TO 1000mm INSIDE THE PROPERTY BOUNDARY, AND GAS AND WATER CONDUITS SHALL EXTEND 300mm PAST THE PROPERTY BOUNDARY WHERE FOOTPATHS ARE TO BE CONSTRUCTED. LOCATION OF CONDUITS IS TO BE MARKED ON FOOTPATHS. CONDUITS ARE TO BE 50mm HD PVC LAID AT A MIN. DEPTH OF 200mm BELOW PAVEMENT SUBGRADE
23. ALL LINEMARKING TO BE WITH REFLECTORISED GLASS BEAD PAINT OF LONG LIFE TYPE. FOR LINE PATTERNS AND DIMENSIONS OF LONGITUDINAL AND TRAVERSE LINES REFER TO THE VIC ROADS TRAFFIC ENGINEERING MANUAL VOL. 2 (JULY 1986) TABLE 10-3.
24. THE CONTRACTOR IS TO BE RESPONSIBLE FOR ENSURING THAT SUFFICIENT WARNING SIGNS, LIGHTS AND BARRIERS ARE ERECTED AND MAINTAINED DURING THE PROGRESS OF WORK. SIGNS, MARKINGS AND DELINEATORS SHOULD BE ERECTED IN ACCORDANCE WITH AS1742-1,2,3 1986, WHICH COMPLIES WITH THE VIC ROADS ROADWORKS SIGNAGE CODE OF PRACTICE.
25. THE CONTRACTOR IS TO INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKERS ON THE ROAD CENTRELINE AND MARKER POSTS TO INDICATE THE LOCATION OF THE FIREPLUGS.
26. ANY FOOTPATHS OR KERB AND CHANNEL DAMAGED DURING CONSTRUCTION AND MAINTENANCE PERIODS TO BE REINSTATED TO THE SATISFACTION OF THE CITY OF MELTON.
27. REMOVAL OR RETENTION OF EXISTING TREES OR VEGETATION MUST BE IN ACCORDANCE WITH THE APPROVED TREE RETENTION PLAN. NO MATERIAL IS TO BE BURNT ON SITE UNLESS AUTHORISED BY THE SUPERINTENDENT.
28. EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH AS3798-2007. ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED, ITS CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS CONTROLLED FILL. FILLING IN PROPERTIES IS TO BE CARRIED OUT USING APPROVED CLAY FILL. TOPSOIL AND ALL VEGETABLE MATTER IS TO BE STRIPPED FROM SITE PRIOR TO FILLING. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO MINIMUM DRY DENSITY RATIO OF 95% STANDARD IN ACCORDANCE WITH A.S. 3978. COMPACTION RESULTS ARE TO BE PROVIDED TO THE SUPERINTENDENT FOR ALLOTMENTS WITH EXCESS OF 300mm OF FILL.
29. A.G. DRAINS (100mm) ARE TO BE INSTALLED BEHIND ALL KERB & CHANNEL AND CONCRETE INVERTS IN ACCORDANCE WITH STANDARD DRAWINGS EDM 202. AG'S BEHIND CONCRETE INVERTS SHALL BE BACKFILLED WITH CLASS 3 BASALTIC SCREENINGS OR NO FINES CONCRETE BLOCKS COVERED WITH GEOTEXTILE FABRIC EXTENDING 225mm EITHER SIDE OF THE AG TRENCH.
30. ALL CONCRETE FOR KERB AND CHANNEL, FOOTPATH AND DRIVE CROSSINGS TO BE 25MPa UNLESS NOTED OTHERWISE
31. THE CONTRACTOR CANNOT CONSTRUCT ANY ELECTRICAL WORKS WITHOUT THE PRIOR CONSENT OF THE RELEVANT ELECTRICITY AUTHORITY
32. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:-
i) SOURCE OF QUARRY MATERIAL
ii) OPTIMUM MOISTURE CONTENT AND MAXIMUM DRY DENSITY OF THE F.C.R. TO BE USED (FROM N.A.T.A. APPROVED LABORATORY)
iii) IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, NEW TEST RESULTS SHALL BE PROVIDED.
33. THE DISPOSAL SITE FOR SPOIL FROM SITE & THE TRUCK ROUTE IS TO BE SUBMITTED TO & APPROVED BY CITY OF MELTON IN WRITING PRIOR TO COMMENCEMENT OF ANY WORK. ALL EXCAVATED CLEAN MATERIAL IS TO BE STOCKPILED ON SITE AS DIRECTED BY THE SUPERINTENDENT.
34. COMPACTION RESULTS FOR SEWER MAINS CROSSING ROAD RESERVES ARE TO BE SUBMITTED TO THE SUPERINTENDENT.

35. BACKFILL OF ALL SERVICE TRENCHES & CONDUITS UNDER PARKING BAYS, DRIVEWAYS AND FOOTPATHS, ARE TO BE FULLY COMPACTED WITH LOW PERMEABILITY CLASS 4 CRUSHED ROCK BACKFILL.
36. WHERE A NEW ROAD MEETS AN UNDEVELOPED STAGE, EARTHWORKS TO TOP OF FOOTPATH LEVEL ARE TO BE EXTENDED FOR A DISTANCE OF 8m TO FINAL LEVELS.
37. PSMs ARE TO BE HIGH STABILITY TYPE INSTALLED TO THE SATISFACTION OF MELTON CITY COUNCIL.
38. PRIOR TO START OF ANY WORK, A PRE-COMMENCEMENT MEETING MUST BE HELD ON SITE BETWEEN COUNCIL REPRESENTATIVE, SUPERINTENDENT AND THE CONTRACTOR.
39. MAP GRID OF AUSTRALIA (MGA) SHALL BE USED AS THE CO-ORDINATE SYSTEM AND AUSTRALIAN HEIGHT DATUM (AHD) SHALL BE USED AS THE REFERENCE SYSTEM FOR ALL LEVELS.

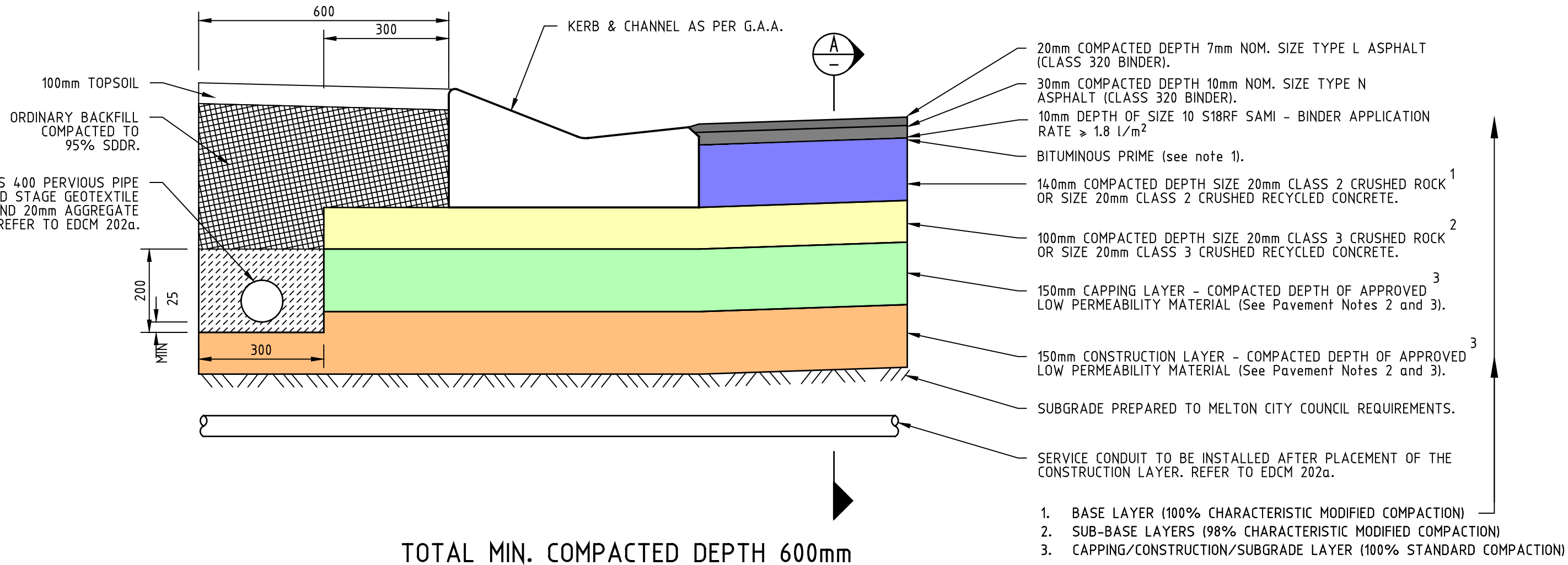


ALL MASONRY UNITS SHALL BE CLEAN HARD STONE LAID IN BOND FOR FULL THICKNESS AND LENGTH OF WALL. MORTAR SHALL BE PROPORTIONED 1 CEMENT : 0.25 LIME : 3 SAND. PLACEMENT OF BACKFILL NOT TO BE CARRIED OUT FOR A MINIMUM PERIOD OF 14 DAYS AFTER COMPLETION OF CONSTRUCTION OF THE ADJACENT WALL SECTION. COMPACTION WITHIN 1.5m OF WALL SHALL BE CARRIED OUT WITH HAND HELD EQUIPMENT ONLY.



RETAINING WALL - SECTION X-X

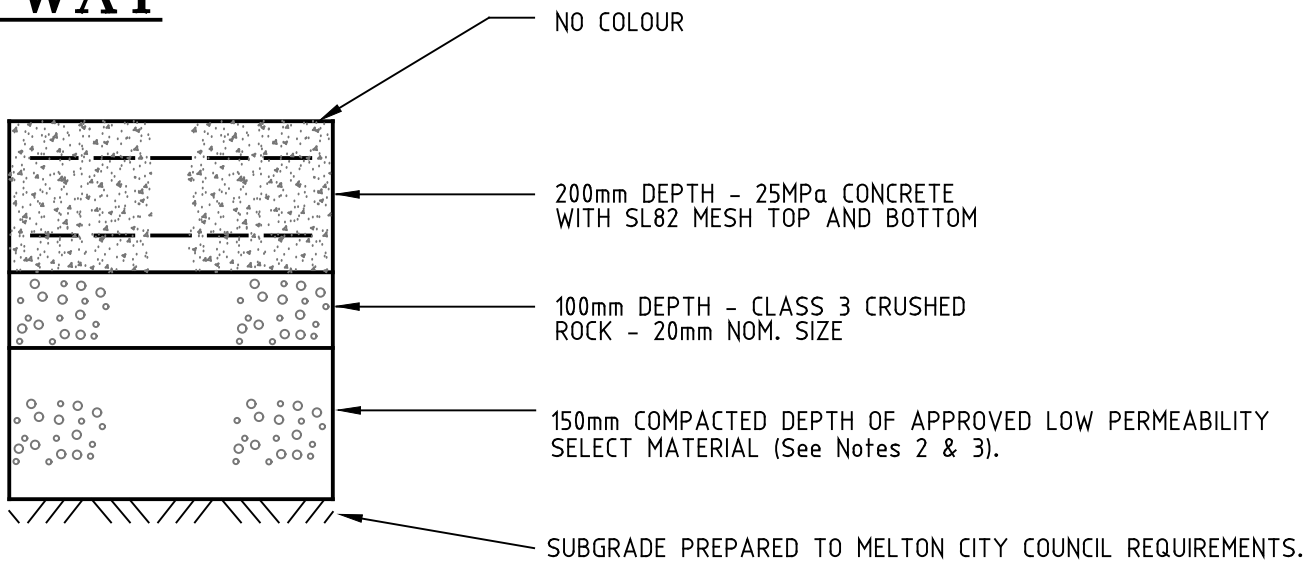
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HAVANA CIRCUIT & BARDOT WAY

PAVEMENT NOTES:

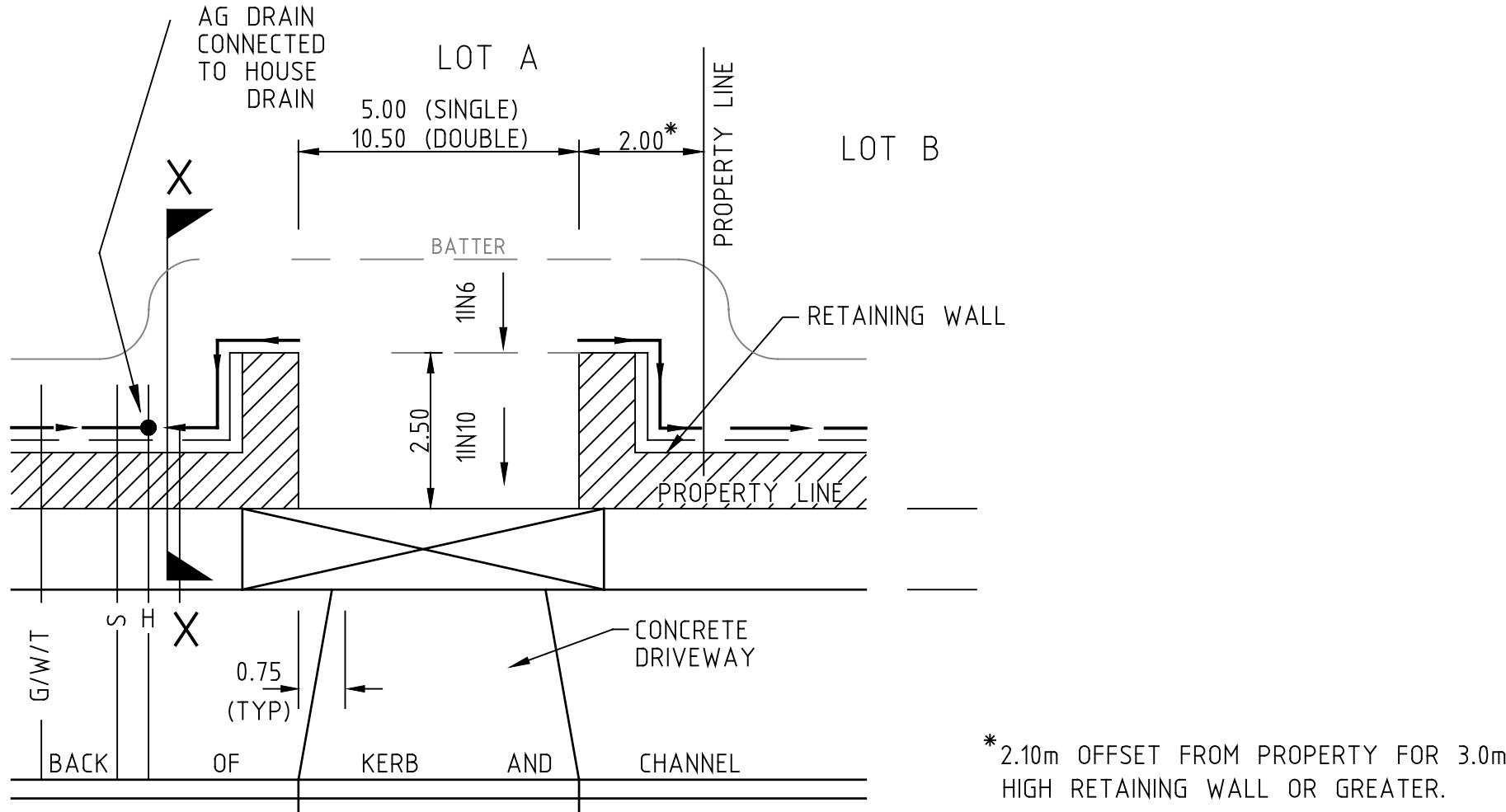
- Note 1. SELECTION DEPENDENT ON WEATHER CONDITIONS AND NEED OR OTHERWISE TO TRAFFIC PRIOR TO ASPHALT PLACEMENT. CONTRACTOR SHOULD NOMINATE AND SEEK APPROVAL OF TYPE, APPLICATION RATE AND CURING REQUIREMENTS PRIOR TO APPLICATION.
- Note 2. MAXIMUM PERMEABILITY 5x10⁻⁹m/s. MINIMUM SOAKED CBR 8%, MAX CBR SWELL 15%. LAYER THICKNESS SHOULD BE RAISED WHERE ROCK ENCOUNTERED ABOVE UNDERSIDE OF LAYER.
- Note 3. THIS LAYER CAN BE THICKENED IF LOCALISED SUBGRADE IMPROVEMENT IS REQUIRED, I.E. VIA REMOVAL AND REPLACEMENT; AND
- Note 4. SUB-BASE CAN BE USED AS A LEVELLING LAYER OVER BASALT ONLY SUBGRADES IF REQUIRED.



MELROSE GROVE

PAVEMENT COMPOSITIONS

NOT TO SCALE



RETAINING WALL & DRIVEWAY DETAIL

NOT TO SCALE.

H	500	700	900	1100	1300	1500
A	100	125	150	200	225	250
B	175	200	225	275	300	325
C	175	200	250	300	350	400
D	200	200	200	200	200	200
E	225	250	275	300	325	350
F	100	125	150	175	200	225
G	600	725	825	950	1075	1175

RETAINING WALL DIMENSION TABLE

(ALL DIMENSIONS ARE IN MILLIMETRES) LINEAR INTERPOLATION OF WALL DIMENSION IS ACCEPTABLE.

AS CONSTRUCTED

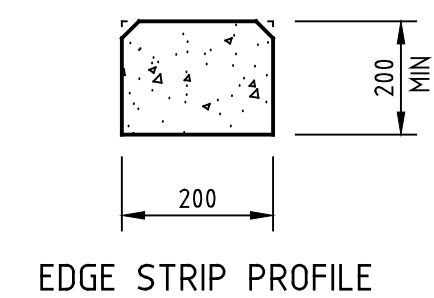
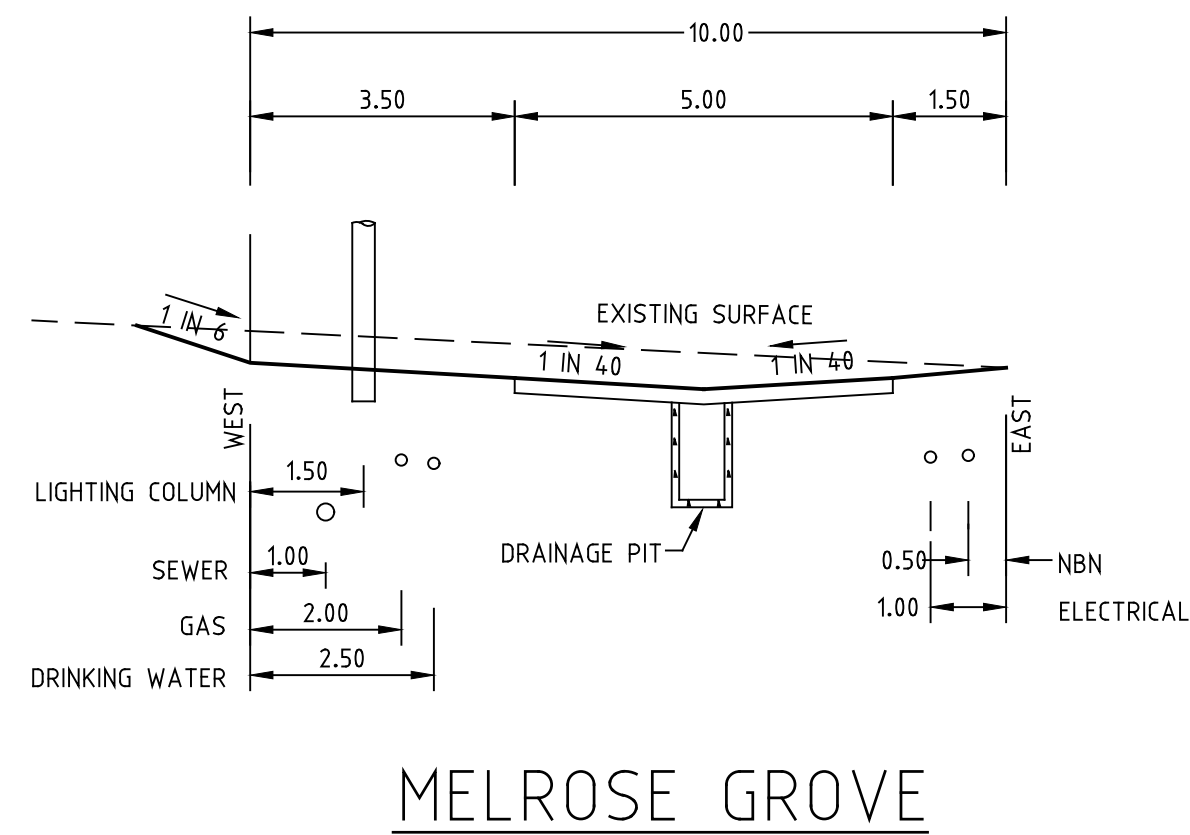
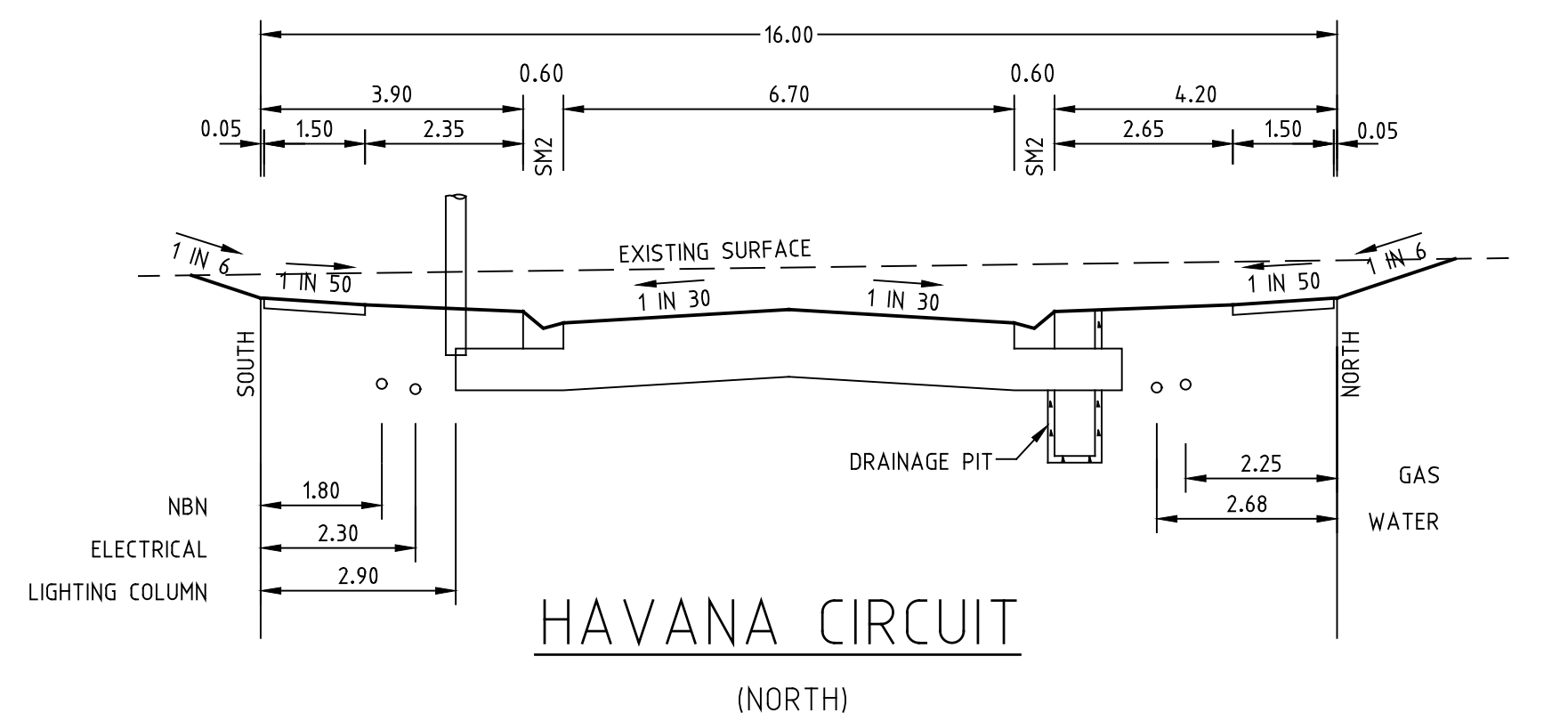
LEGEND			
	GAS MAIN		HOUSE DRAIN PROPOSED/EX.
	WATER MAIN		PROPERTY INLET, DRAINAGE PITS
	RECYCLED WATER MAIN		EX./FUT. INLET, DRAINAGE PITS
	ELECTRICITY CABLE		DRAINAGE PIT STAGE/NUMBER
	TELECOMMUNICATIONS CABLE		SEWER LINE AND STRUCTURES
	WATER CONDUIT		EX./SEWER LINE AND STRUCTURES
	GAS CONDUIT		KERB AND CHANNEL
	RECYCLED WATER CONDUIT		EX./FUT. KERB AND CHANNEL
	COMBINED SERVICES CONDUIT		KERB TO BE REMOVED OFFSITE
	T.B.M.		STREET SIGN

CHAINAGES AND TANGENT POINTS	
	EXISTING SURFACE LEVEL
	FINISHED LEVEL (TITLE BOUNDARY)
	DESIGN TOP/TOE OF BATTER LEVEL
	DESIGN PAVEMENT LEVEL
	PROPOSED CONTOUR LINE & LEVEL
	EXISTING CONTOUR LINE & LEVEL
	FILLING IN EXCESS OF 200mm
	CATCH DRAIN AND INVERT LEVEL
	EX. BATTER 1
	PROP. BATTER

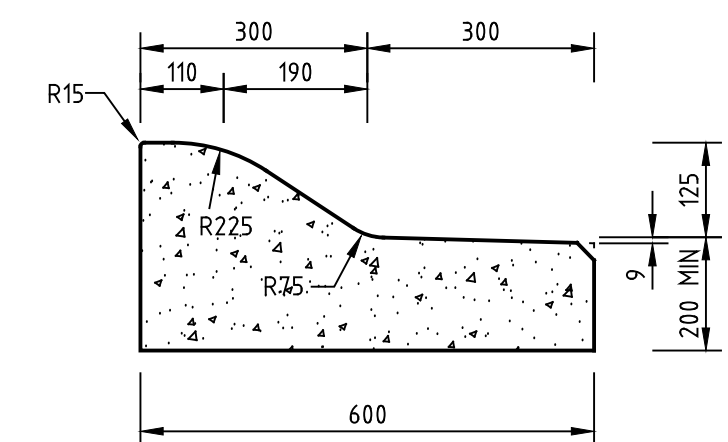
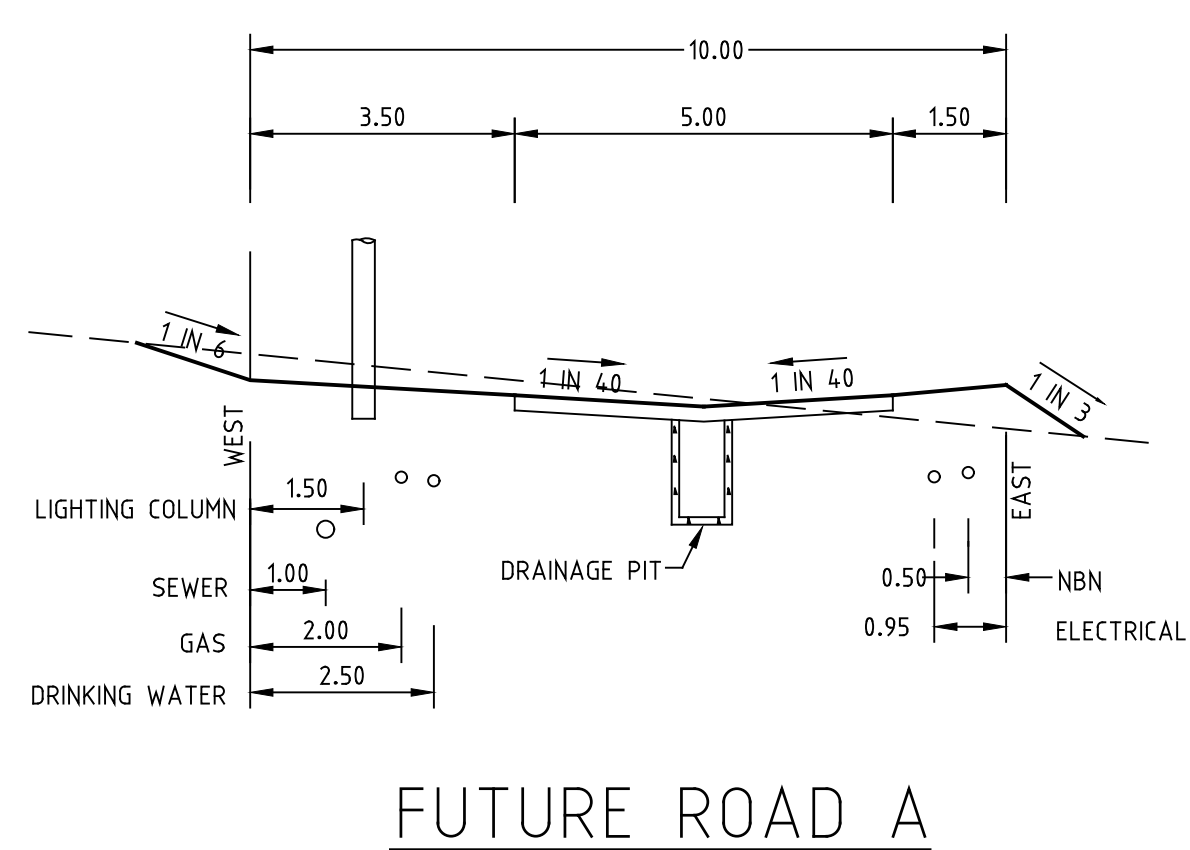
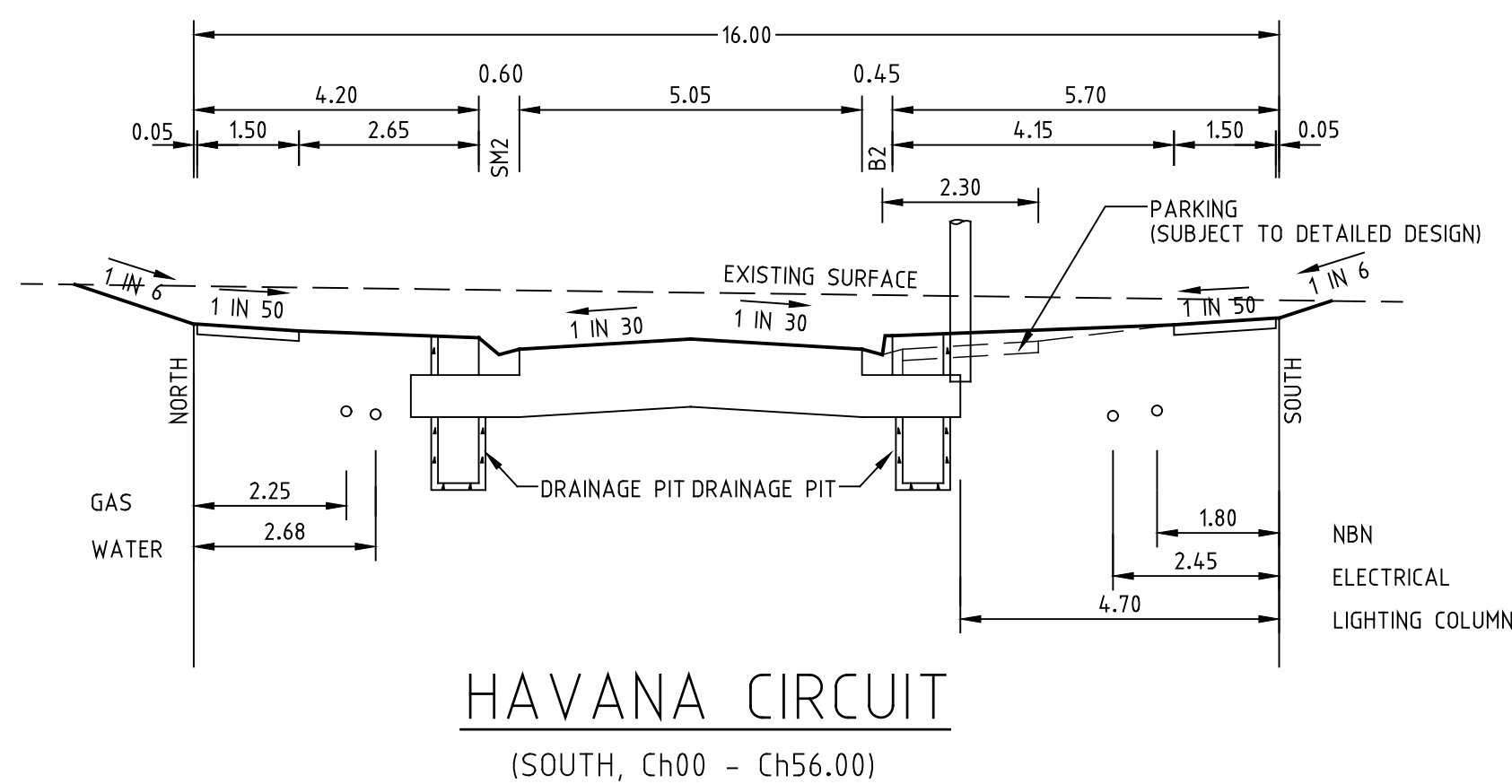
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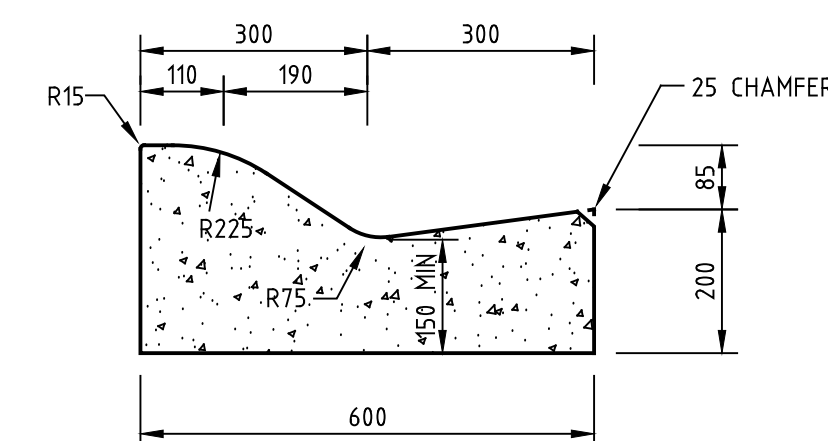
DRAWN: J. BEVERIDGE	AUTHORITY: CITY OF MELTON	SCALE N.T.S.
DESIGNED: J. BEVERIDGE	PROJECT: MODEINA STAGE 33 ROADS AND DRAINAGE	
CHECKED: M. COLE	DETAILS: GENERAL NOTES & PAVEMENT COMPOSITIONS	LEVEL DATUM AHD
AUTHORISED: T. VETTIVEL		SHEET 6 OF 20
DATE: 27/05/2022	----	DRAWING No. 1275/33/NE/6
		REV. AC1



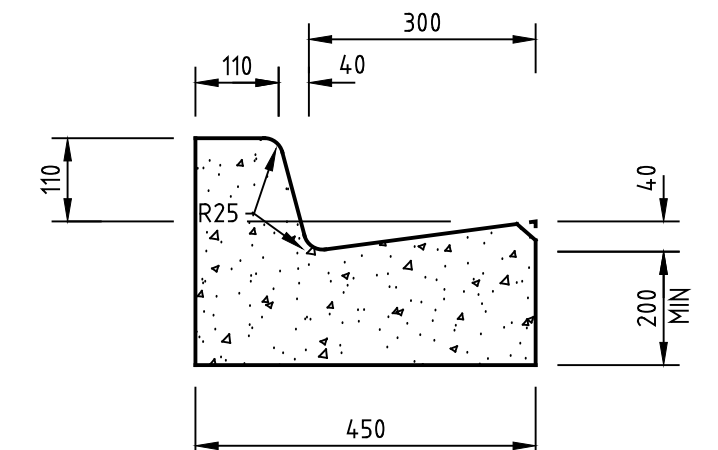
EDGE STRIP PROFILE



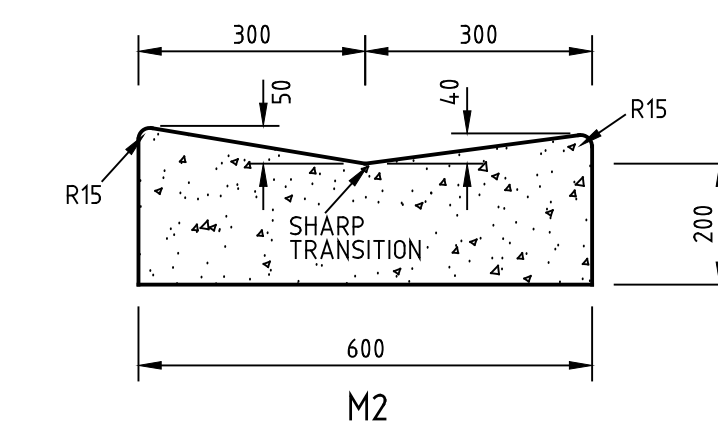
SM3 KERB PROFILE



SM2 K&Ch PROFILE

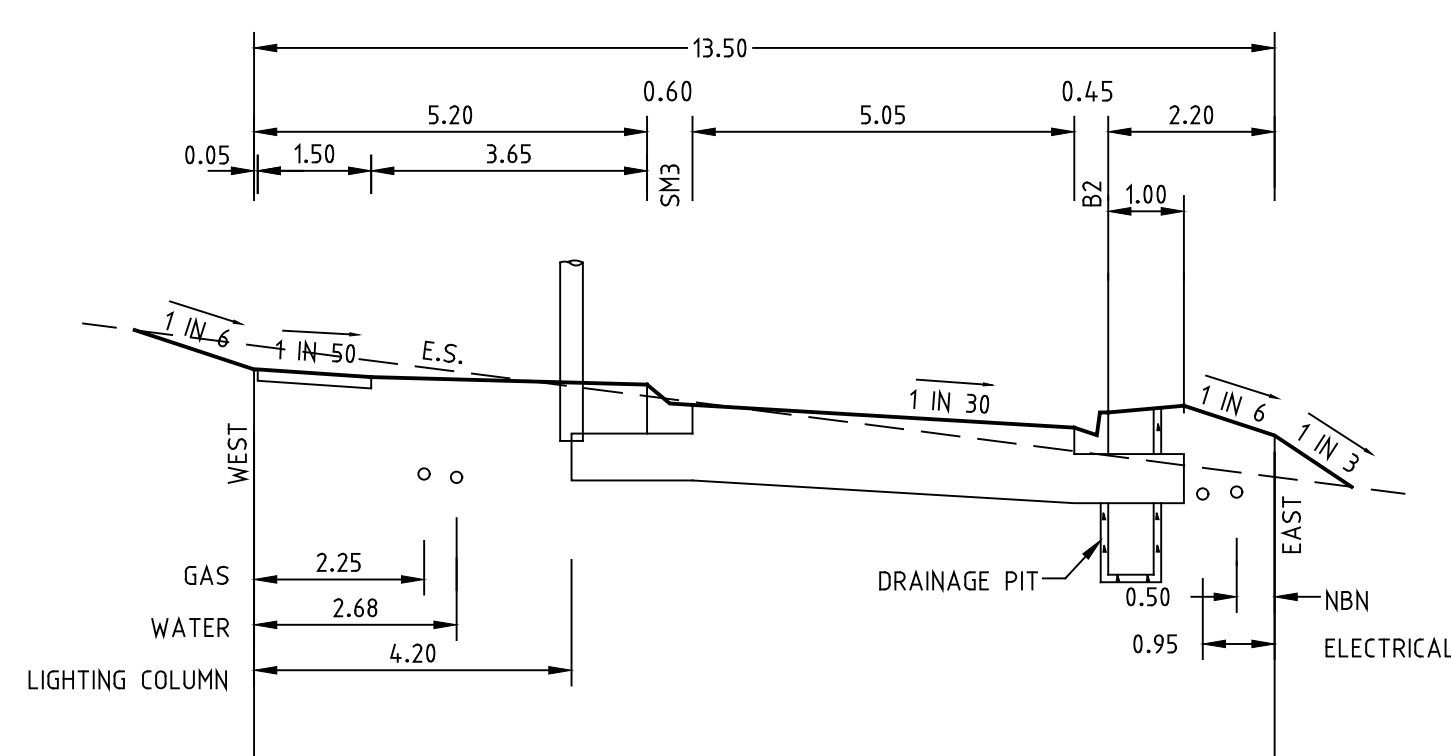
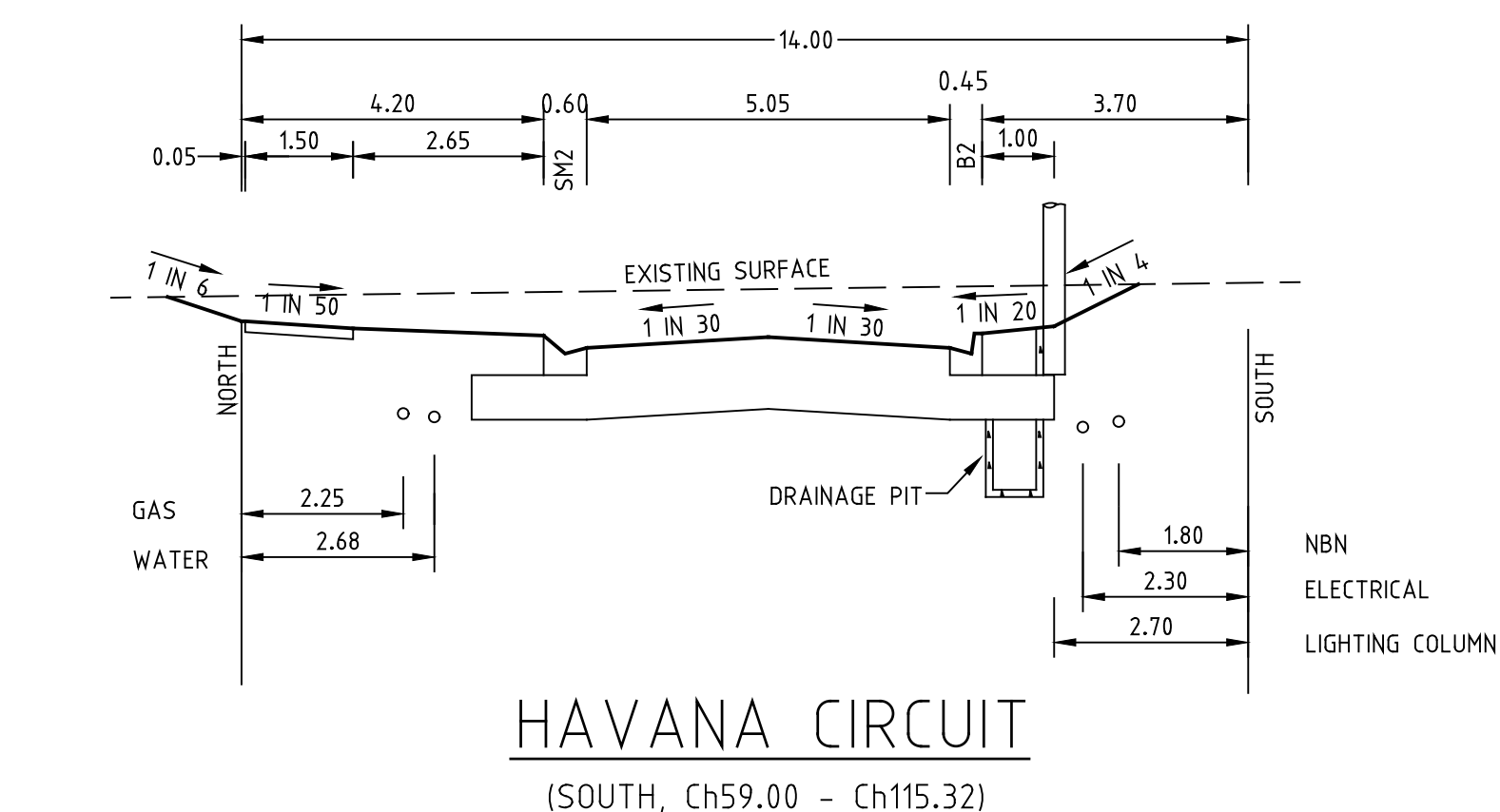


B2 KERB PROFILE



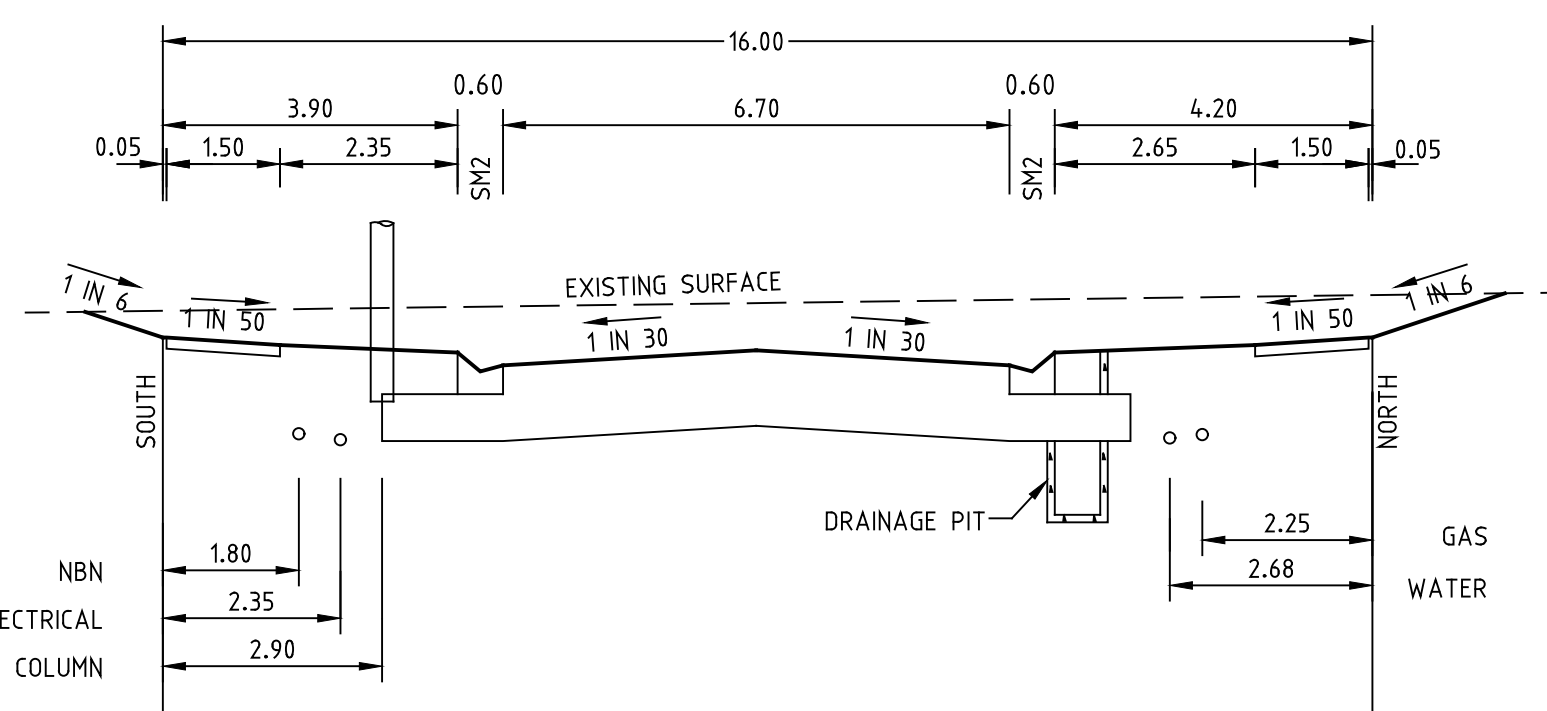
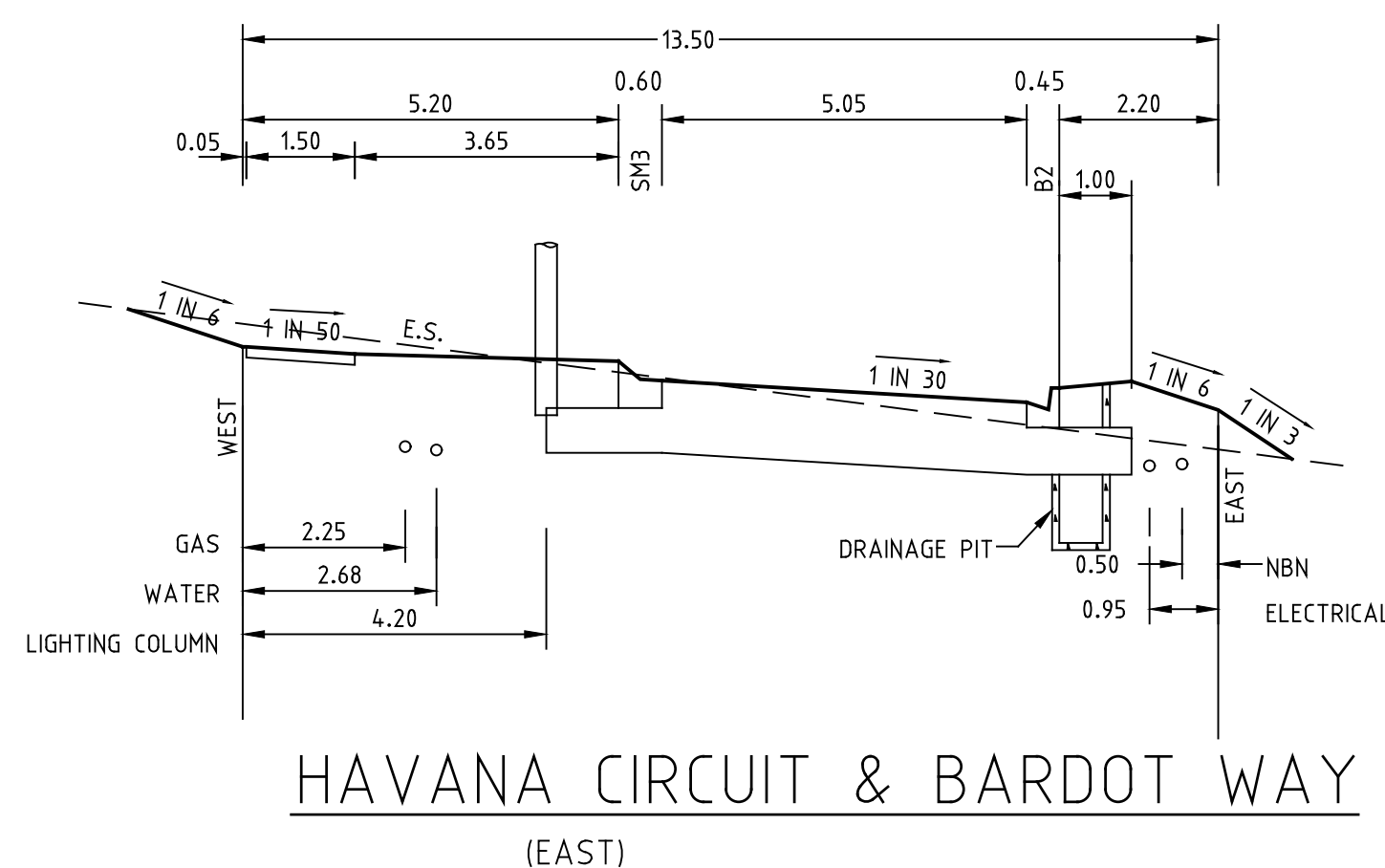
KERB DETAILS

N.T.S.



FUTURE ROAD B

(CREEKSIDE)



FUTURE BARDOT WAY & FUTURE ROAD B

(EAST-WEST)

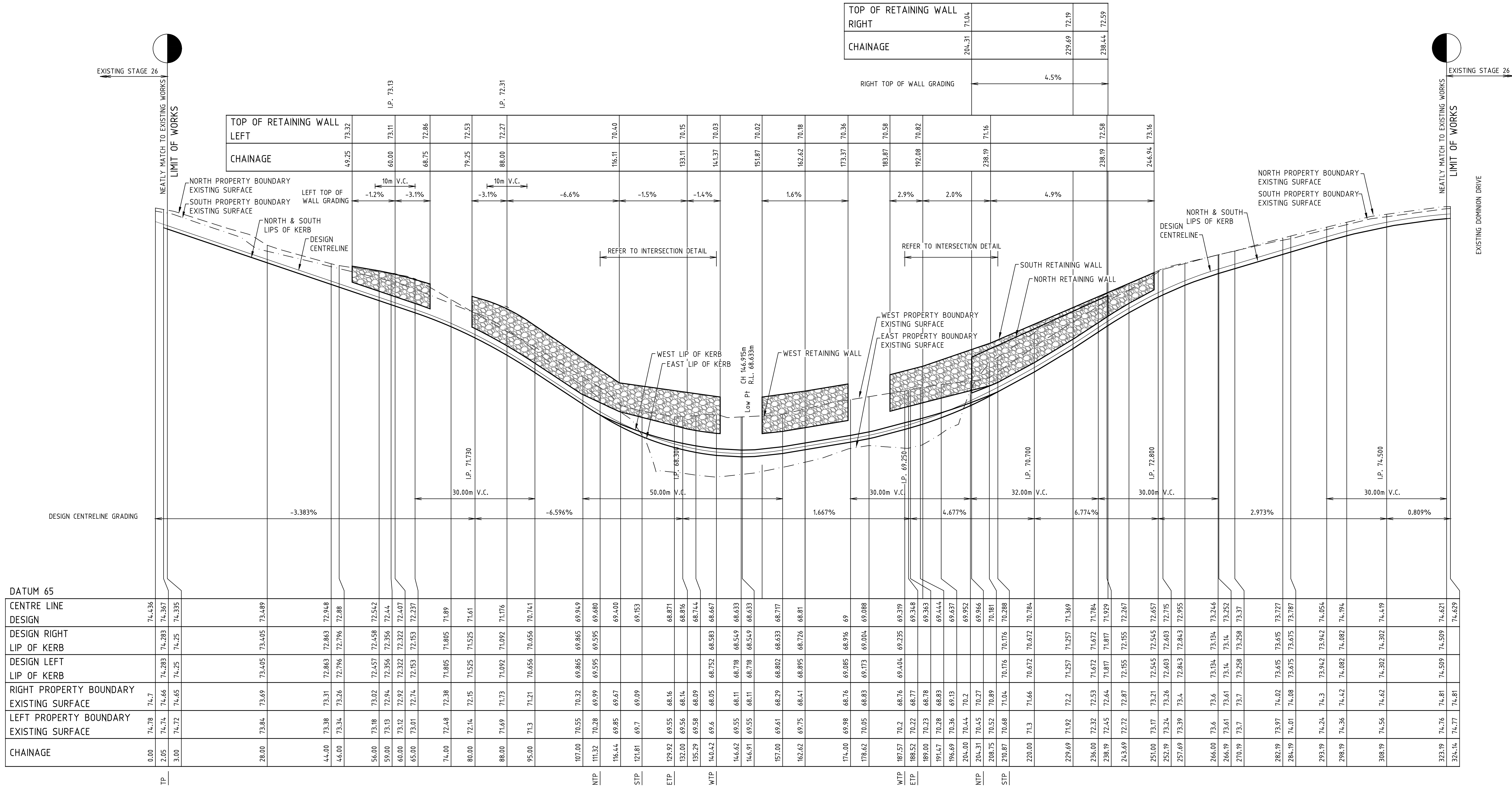
(EAST-WEST)

TYPICAL SECTIONS

(NOT TO SCALE)

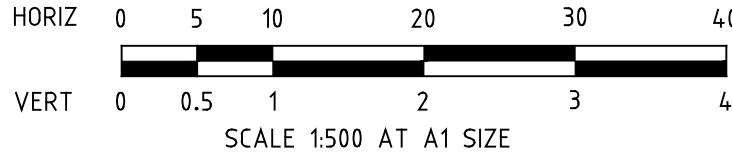
AS CONSTRUCTED

REV.	REVISION	DATE	APPD.	LEGEND	CHAINS AND TANGENT POINTS	22 Business Park Drive Notting Hill 3168 A.C.N. 006 550 803 E: consulting@dpmvic.com.au W: www.dpmvic.com.au T: (03) 9538 5000	Consulting Group	DRAWN: J. BEVERIDGE DESIGNED: J. BEVERIDGE CHECKED: M. COLE AUTHORISED: T. VETTIVEL DATE: 27/05/2022	AUTHORITY: CITY OF MELTON PROJECT: MODEINA STAGE 33 ROADS AND DRAINAGE DETAILS: TYPICAL SECTIONS & MISCELLANEOUS DETAILS ----	SCALE N.T.S. LEVEL DATUM AHD SHEET 7 OF 20 DRAWING No. 1275/33/NE/7 REV. AC1
AC1	AS CONSTRUCTED	22/06/2023	M.C.	- GAS MAIN - WATER MAIN - RECYCLED WATER MAIN - ELECTRICITY CABLE - TELECOMMUNICATIONS CABLE - WATER CONDUIT - GAS CONDUIT - RECYCLED WATER CONDUIT - COMBINED SERVICES CONDUIT - T.B.M. - P.S.M. - HOUSE DRAIN PROPOSED/EX. - PROPERTY INLET, DRAINAGE PITS - EX./FUT. INLET, DRAINAGE PITS - DRAINAGE PIT STAGE/NUMBER - SEWER LINE AND STRUCTURES - EX./FUT. KERB AND STRUCTURES - KERB AND CHANNEL - EX./FUT. KERB AND CHANNEL - KERB TO BE REMOVED OFFSITE - STREET SIGN - CHAINS AND TANGENT POINTS - EXISTING SURFACE LEVEL - FINISHED LEVEL (TITLE BOUNDARY) - DESIGN TOP/TOE OF BATTER LEVEL - DESIGN PAVEMENT LEVEL - PROPOSED CONTOUR LINE & LEVEL - EXISTING CONTOUR LINE & LEVEL - FILLING IN EXCESS OF 200mm - CATCH DRAIN AND INVERT LEVEL - EX. BATTER - PROP. BATTER						



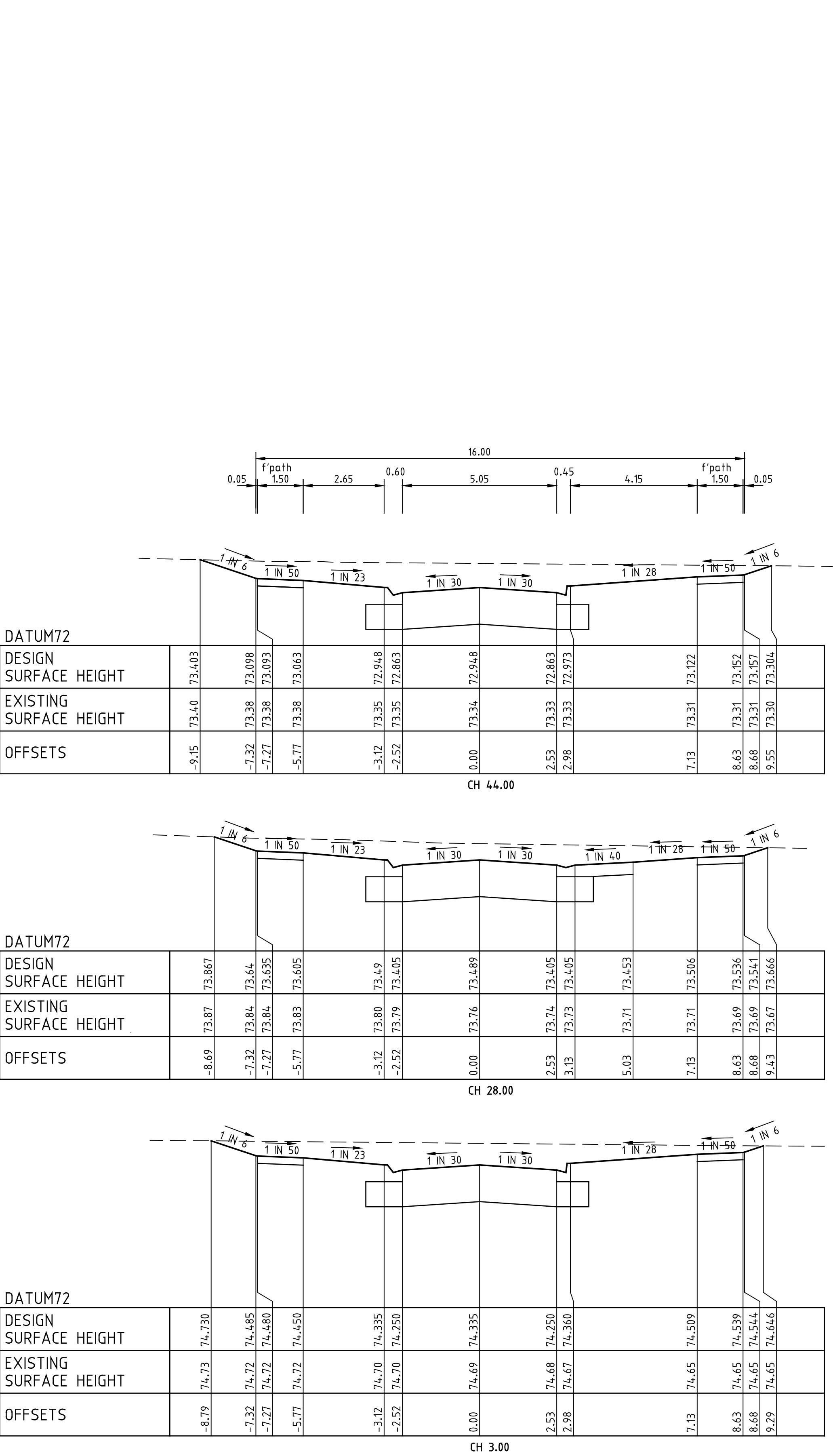
ROAD LONGITUDINAL SECTION HAVANA CIRCUIT

SCALES HOR 1 : 500 VER 1 : 50



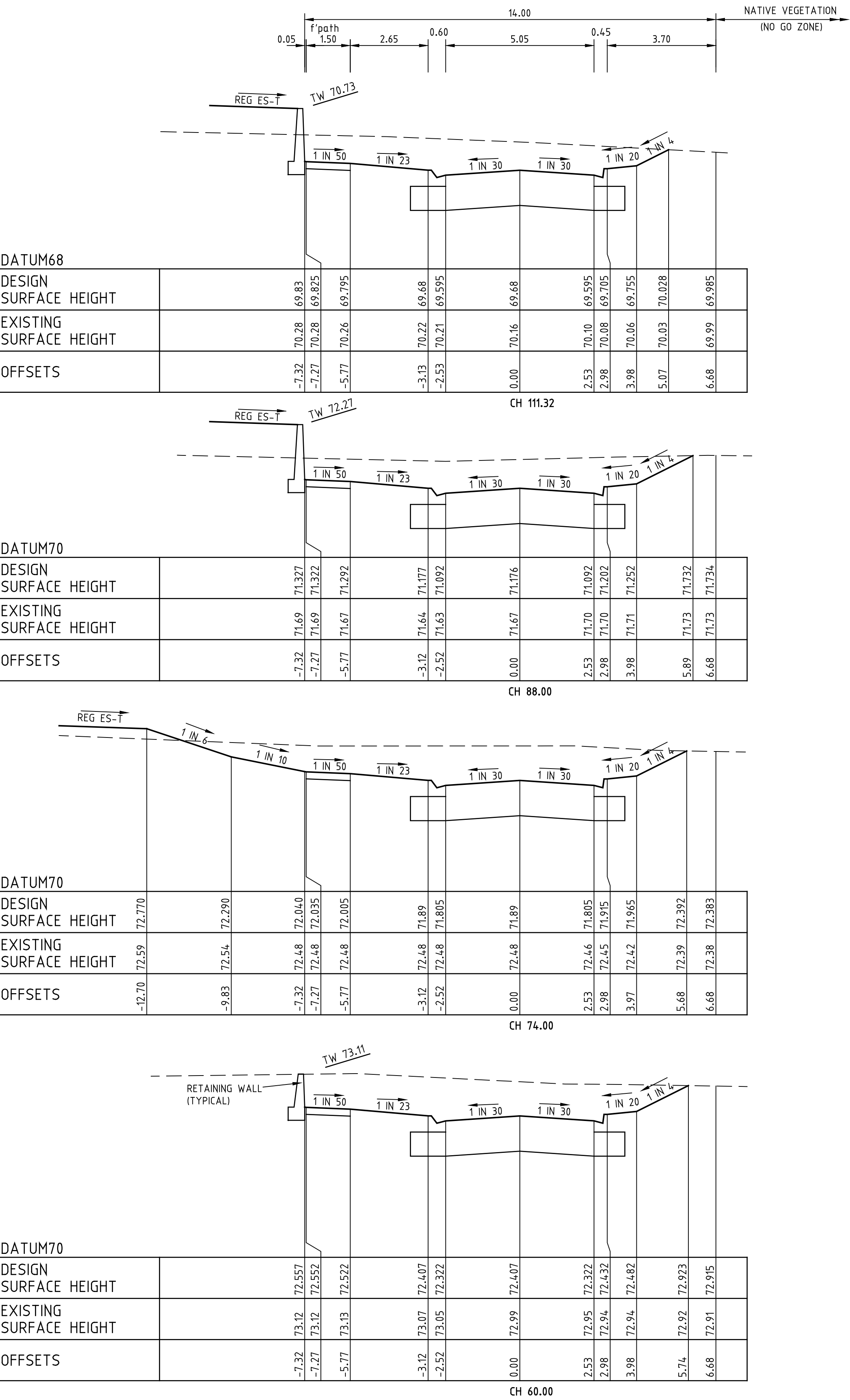
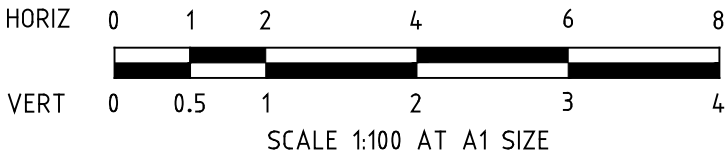
AS CONSTRUCTED

REV.	REVISION	DATE	APPD.	LEGEND	CHANGES	22 Business Park Drive Notting Hill 3168 A.C.N. 006 550 803 E: consulting@dpmvic.com.au W: www.dpmvic.com.au T: (03) 9538 5000	Consulting Group	DRAWN: J. BEVERIDGE DESIGNED: J. BEVERIDGE CHECKED: M. COLE AUTHORISED: T. VETTIVEL DATE: 27/05/2022	AUTHORITY: CITY OF MELTON PROJECT: MODEINA STAGE 33 ROADS AND DRAINAGE DETAILS: HAVANA CIRCUIT - LONGITUDINAL SECTION	SCALE 1:500H, 1:50V LEVEL DATUM AHD SHEET 8 OF 20 DRAWING No. 1275/33/NE/8 REV. AC1
AC1	AS CONSTRUCTED	22/06/2023	M.C.	- GAS MAIN - WATER MAIN - RECYCLED WATER MAIN - ELECTRICITY CABLE - TELECOMMUNICATIONS CABLE - WATER CONDUIT - GAS CONDUIT - RECYCLED WATER CONDUIT - COMBINED SERVICES CONDUIT - T.B.M. - P.S.M. - HOUSE DRAIN PROPOSED/EX. - PROPERTY INLET, DRAINAGE PITS - EX./FUT. INLET, DRAINAGE PITS - DRAINAGE PIT STAGE/NUMBER - SEWER LINE AND STRUCTURES - EX. SEWER LINE AND STRUCTURES - KERB AND CHANNEL - EX./FUT. KERB AND CHANNEL - KERB TO BE REMOVED OFFSITE - STREET SIGN - CHAINAGES AND TANGENT POINTS - EXISTING SURFACE LEVEL - FINISHED LEVEL (TITLE BOUNDARY) - DESIGN TOP/TOE OF BATTER LEVEL - DESIGN PAVEMENT LEVEL - PROPOSED CONTOUR LINE & LEVEL - EXISTING CONTOUR LINE & LEVEL - FILLING IN EXCESS OF 200mm - CATCH DRAIN AND INVERT LEVEL - EX. BATTER - PROP. BATTER	- CH 146.915m - R.L. 68.633m - Low Pt.					



ROAD CROSS SECTIONS HAVANA CIRCUIT

SCALES HOR 1 : 100 VER 1 : 50



AS CONSTRUCTED

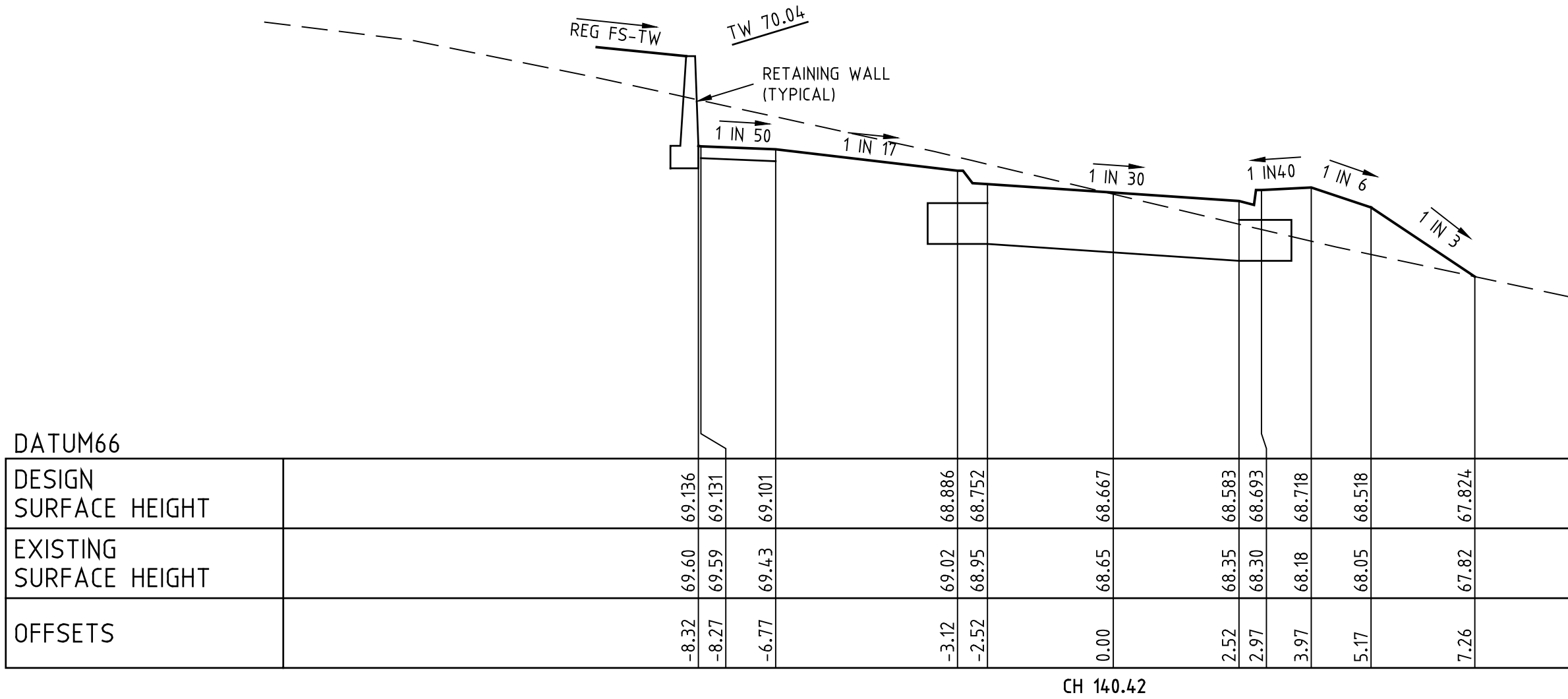
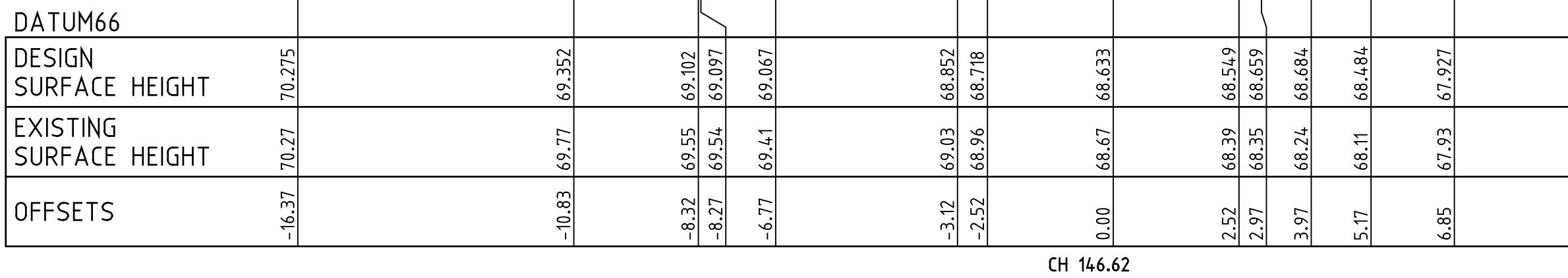
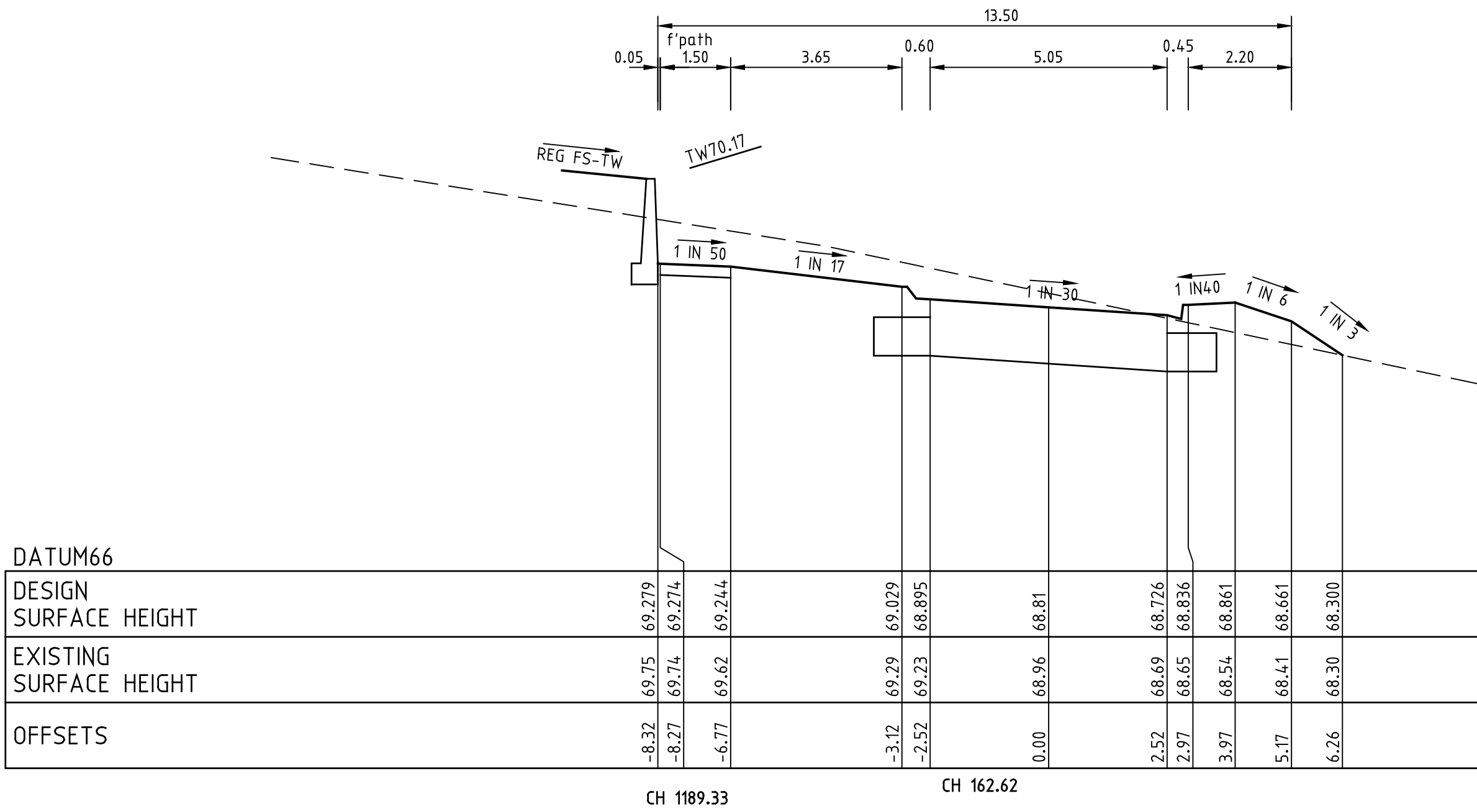
				LEGEND										
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					WATER MAIN		PROPERTY INLET, DRAINAGE PITS		EXISTING SURFACE LEVEL					
					RECYCLED WATER MAIN		EX./FUT. INLET, DRAINAGE PITS		FINISHED LEVEL (TITLE BOUNDARY)					
					ELECTRICITY CABLE		DRAINAGE PIT STAGE/NUMBER		DESIGN TOP/TOE OF BATTER LEVEL					
					TELECOMMUNICATIONS CABLE		SEWER LINE AND STRUCTURES		DESIGN PAVEMENT LEVEL					
					WATER CONDUIT		EX. SEWER LINE AND STRUCTURES		PROPOSED CONTOUR LINE & LEVEL					
					GAS CONDUIT		KERB AND CHANNEL		EXISTING CONTOUR LINE & LEVEL					
					RECYCLED WATER CONDUIT		EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm					
					COMBINED SERVICES CONDUIT		KERB TO BE REMOVED OFFSITE		CATCH DRAIN AND INVERT LEVEL					
					T.B.M.		P.S.M.		EX. BATTER					
					STREET SIGN									
AC1	AS CONSTRUCTED	22/08/2023	M.C.											
REV.	REVISION	DATE	APPD.											

22 Business Park Drive Notting Hill 3168
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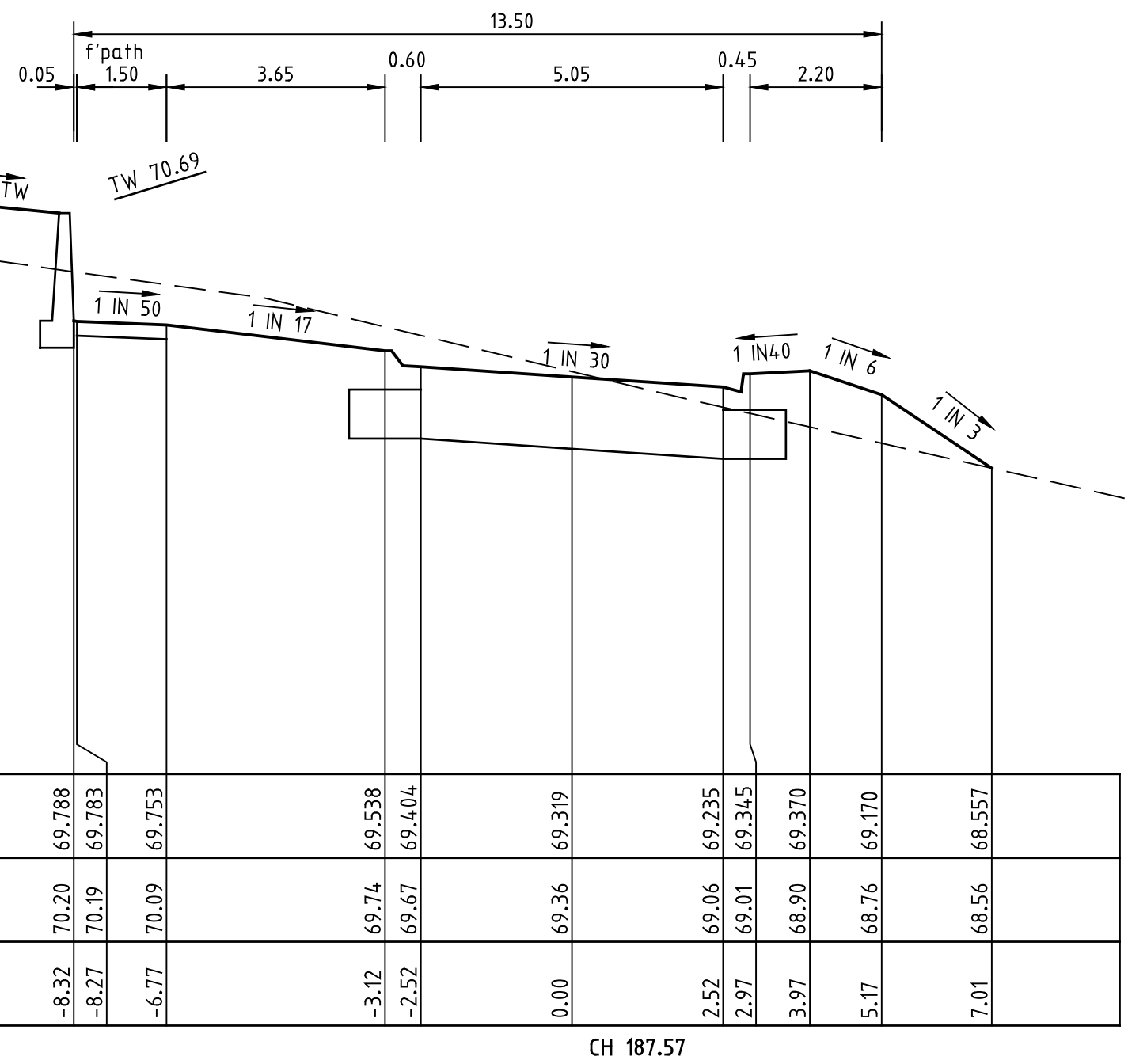
DRAWN: J. BEVERIDGE
DESIGNED: J. BEVERIDGE
CHECKED: M. COLE
AUTHORISED: T. VETTIVEL
DATE: 27/05/2022

AUTHORITY: CITY OF MELTON
PROJECT: **MODEINA STAGE 33**
ROADS AND DRAINAGE
DETAILS: **HAVANA CIRCUIT - CROSS SECTIONS**
- SHEET 1 OF 3

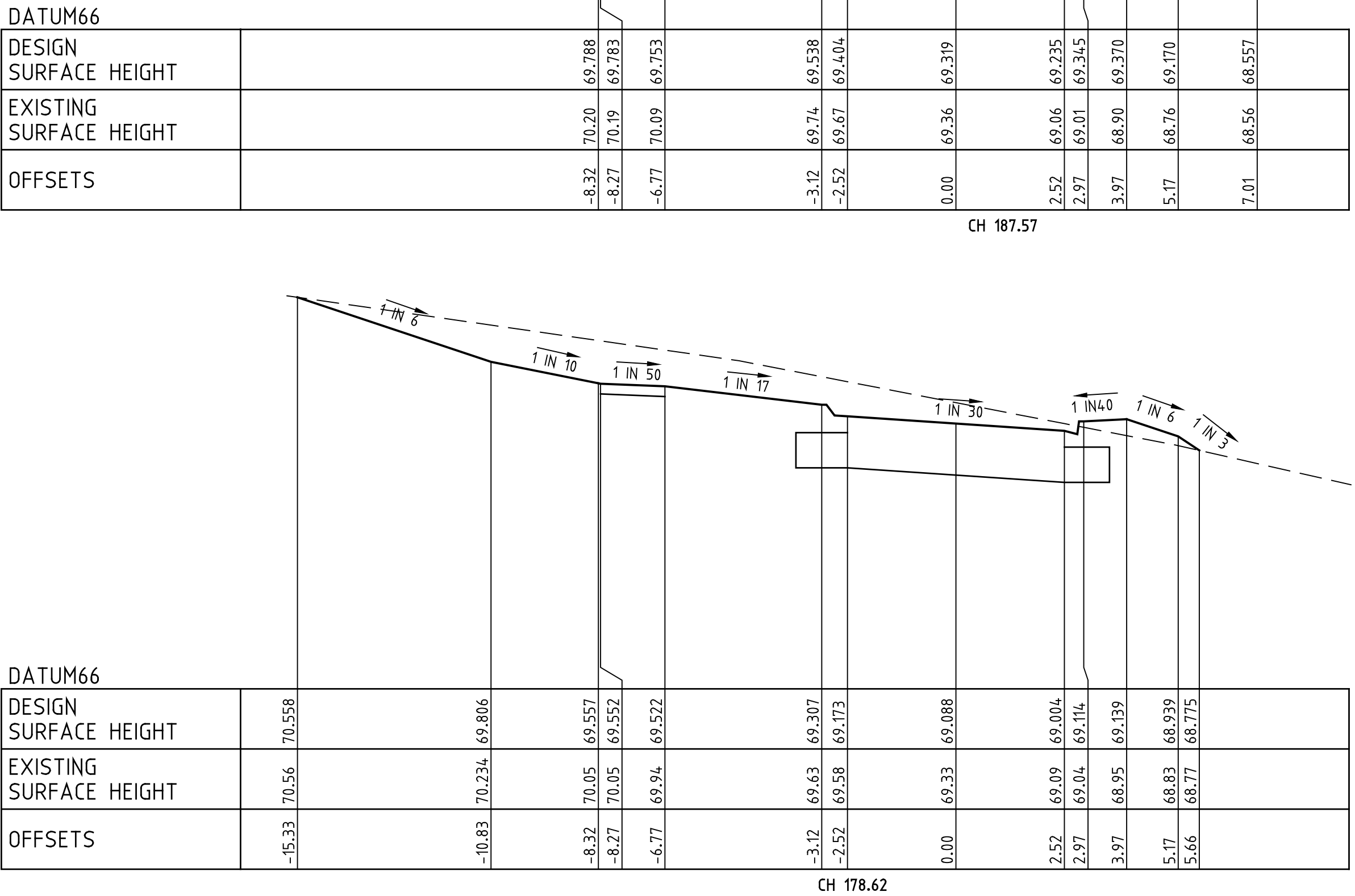
SCALE 1:100H, 1:50V
LEVEL DATUM AHD
SHEET 9 OF 20
DRAWING No. **1275/33/NE/9**
REV. AC1



CH 140.42



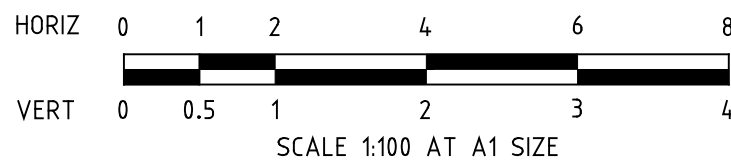
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CH 178.62

ROAD CROSS SECTIONS HAVANA CIRCUIT

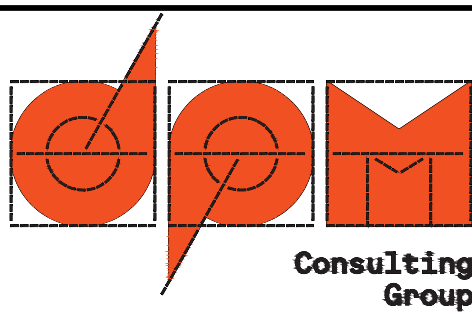
SCALES HOR 1 : 100 VER 1 : 50



AS CONSTRUCTED

				LEGEND					
					GAS MAIN		HOUSE DRAIN PROPOSED/EX.		CHAINAGES AND TANGENT POINTS
					WATER MAIN		PROPERTY INLET, DRAINAGE PITS		EXISTING SURFACE LEVEL
					RECYCLED WATER MAIN		EX./FUT. INLET, DRAINAGE PITS		FINISHED LEVEL (TITLE BOUNDARY)
					ELECTRICITY CABLE		DRAINAGE PIT STAGE/NUMBER		DESIGN TOP/TOE OF BATTER LEVEL
					TELECOMMUNICATIONS CABLE		SEWER LINE AND STRUCTURES		DESIGN PAVEMENT LEVEL
					WATER CONDUIT		EX. SEWER LINE AND STRUCTURES		PROPOSED CONTOUR LINE & LEVEL
					GAS CONDUIT		KERB AND CHANNEL		EXISTING CONTOUR LINE & LEVEL
					RECYCLED WATER CONDUIT		EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm
					COMBINED SERVICES CONDUIT		KERB TO BE REMOVED OFFSITE		CATCH DRAIN AND INVERT LEVEL
					T.B.M.		P.S.M.		EX. BATTER
					STREET SIGN		PROP. BATTER		
REV.	AS CONSTRUCTED	REVISION	22/06/2023	M.C.	APPD.				

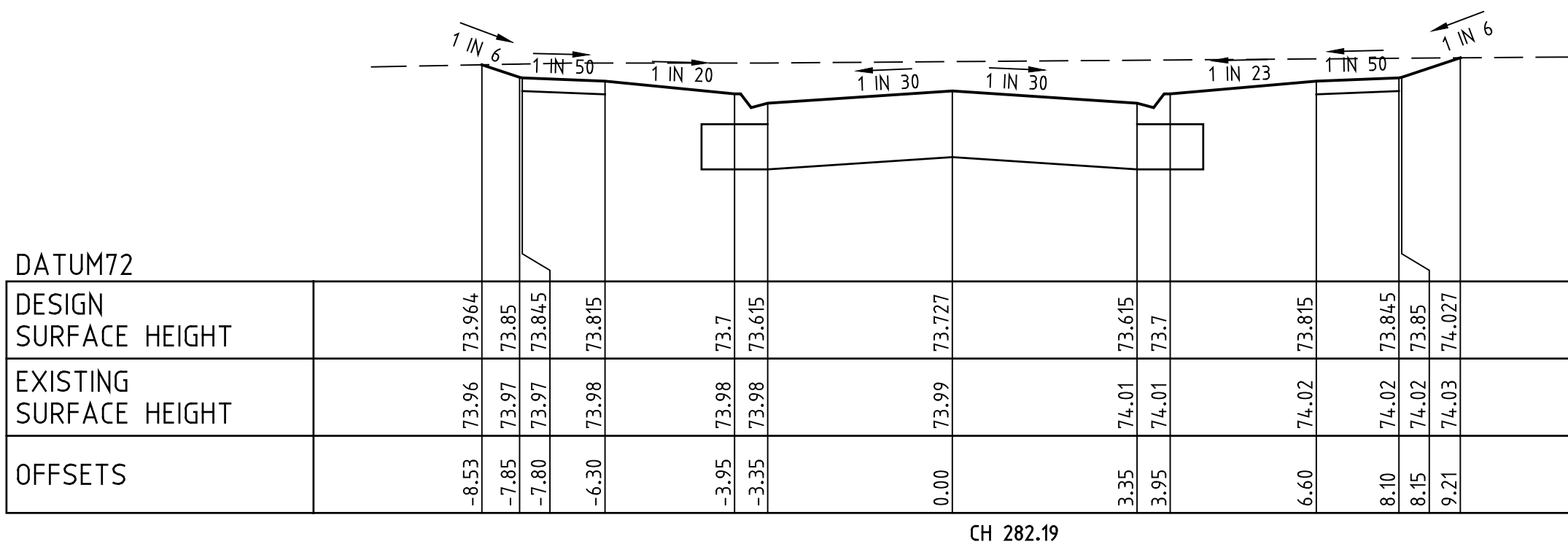
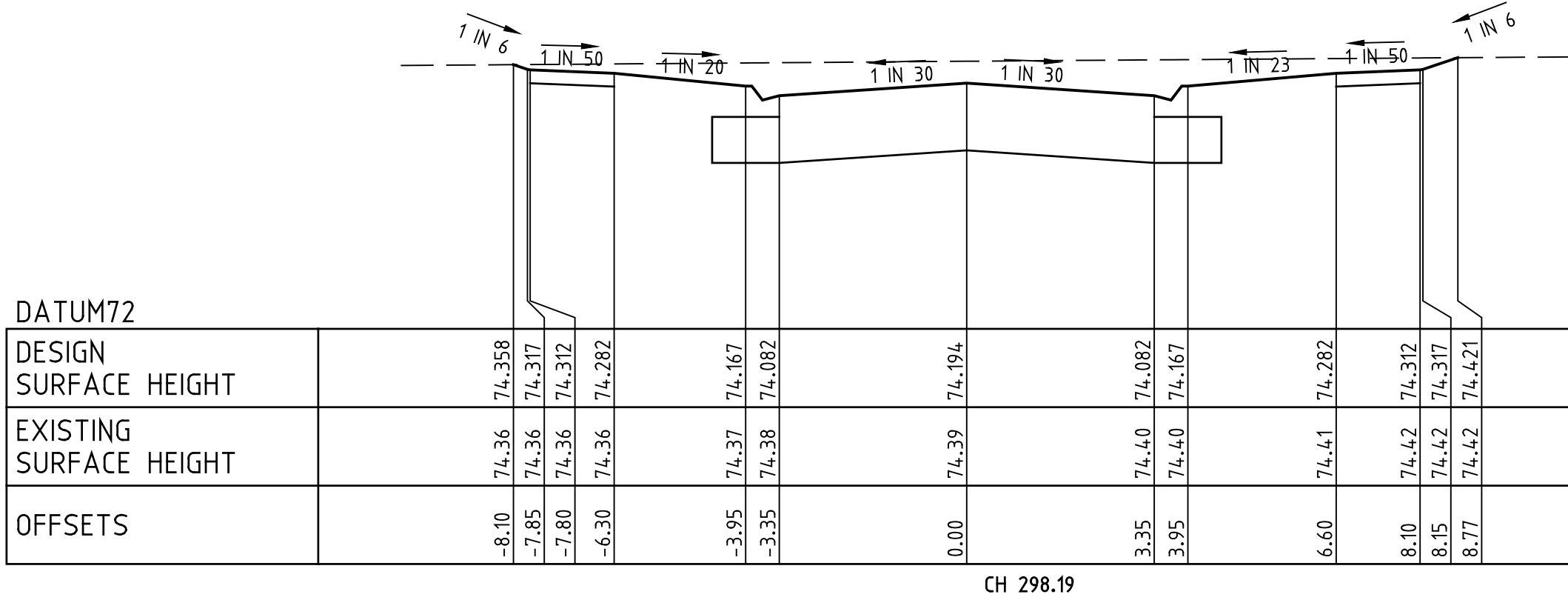
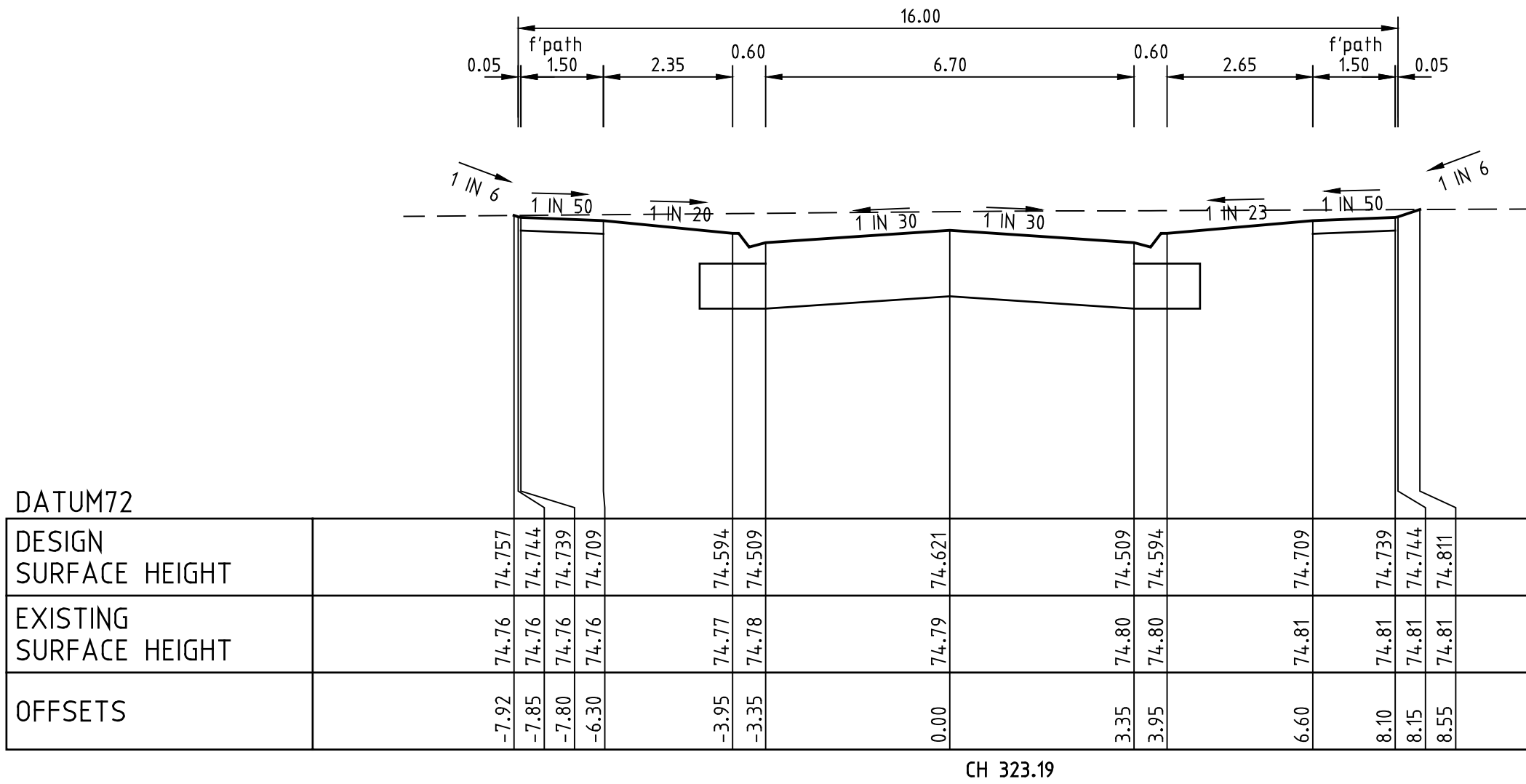
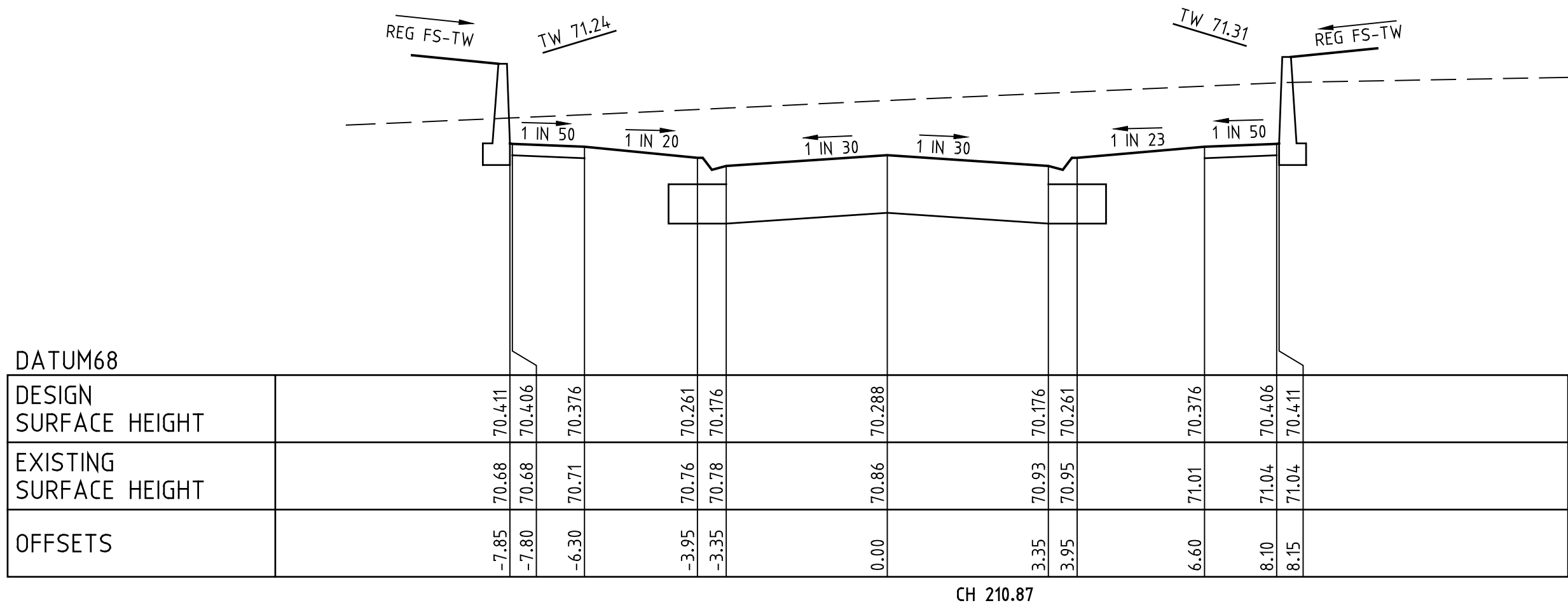
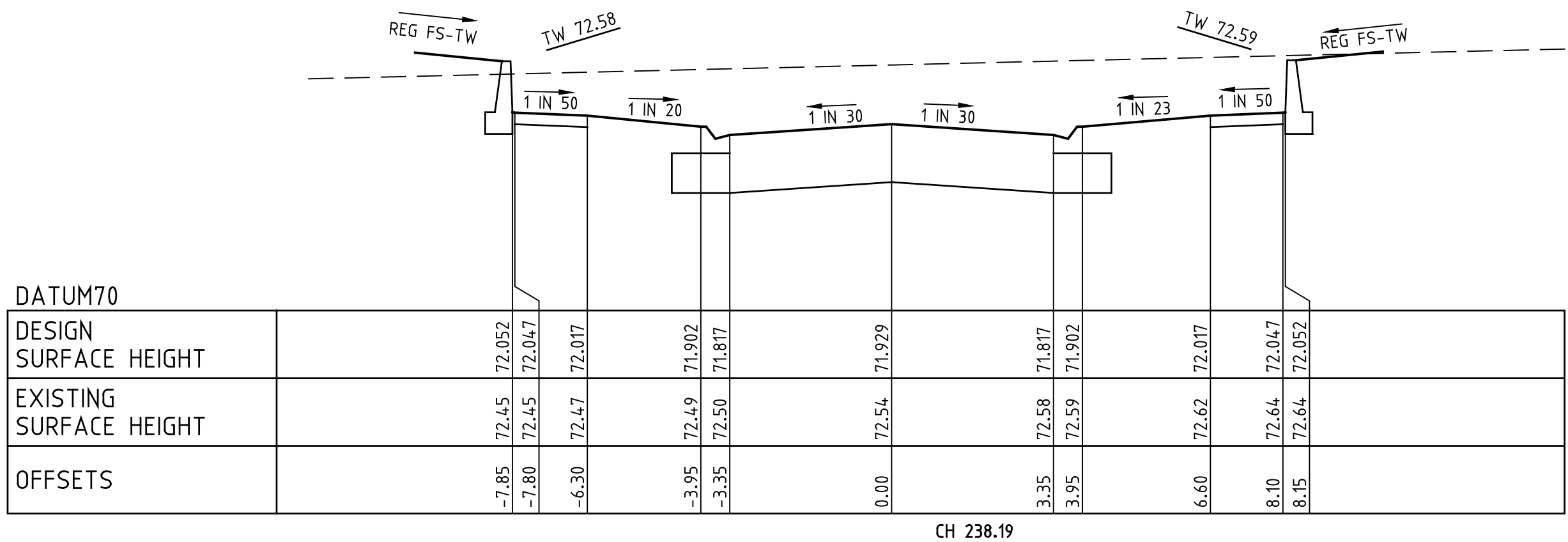
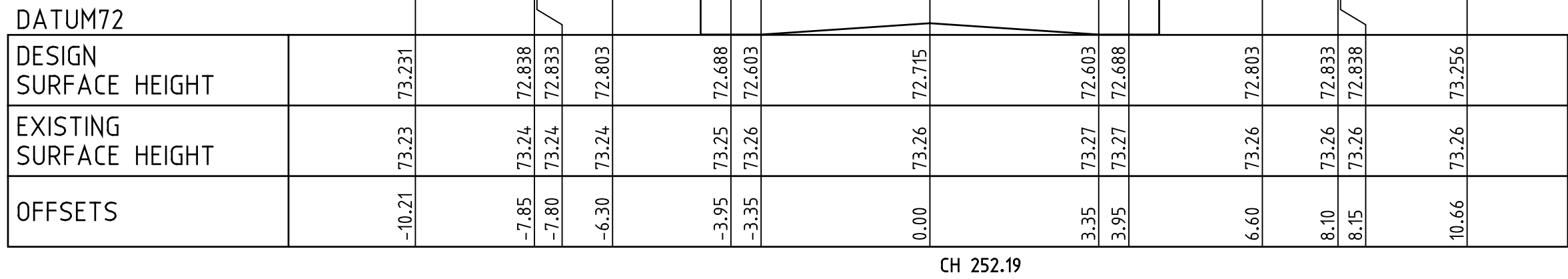
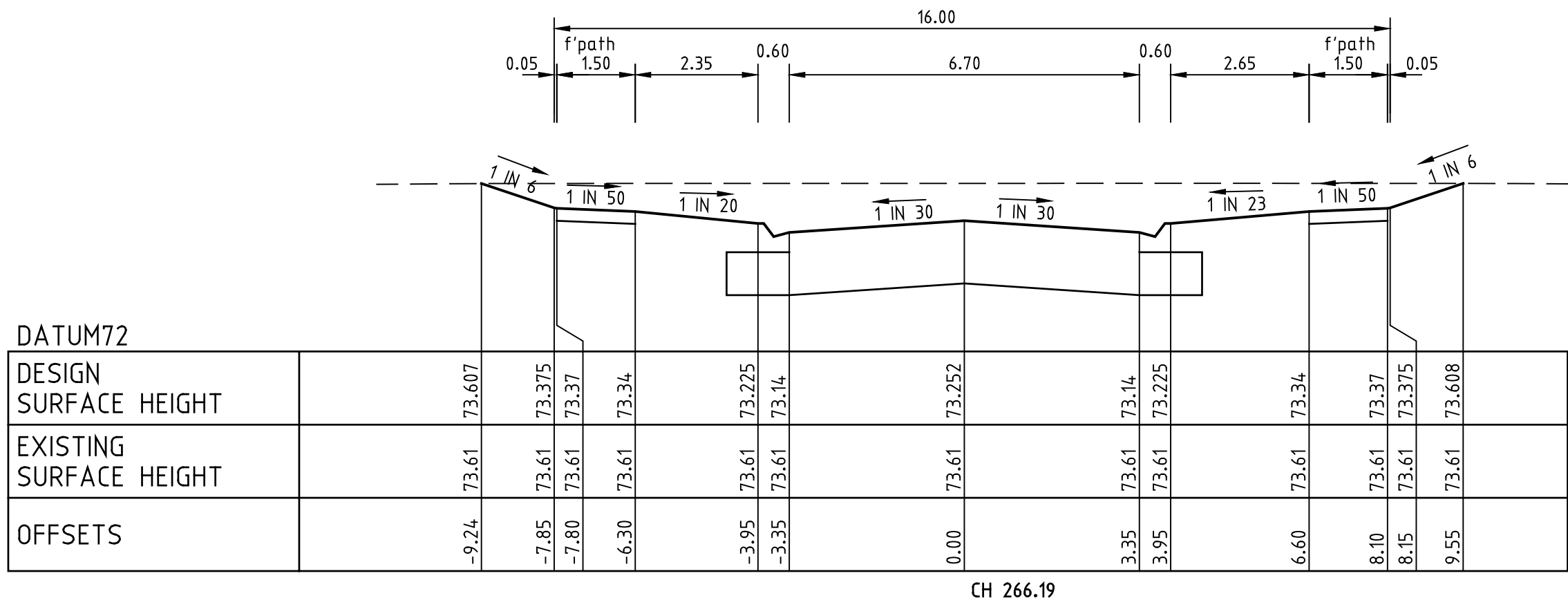
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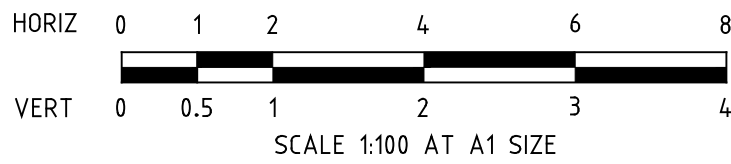
DRAWN: J. BEVERIDGE
DESIGNED: J. BEVERIDGE
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AUTHORISED: T. VETTIVEL
DATE: 27/05/2022

AUTHORITY: CITY OF MELTON
PROJECT: MODEINA STAGE 33
ROADS AND DRAINAGE
DETAILS: HAVANA CIRCUIT - CROSS SECTIONS
- SHEET 2 OF 3

SCALE 1:100H, 1:50V
LEVEL DATUM AHD
SHEET 10 OF 20
DRAWING No. 1275/33/NE/10
REV. AC1

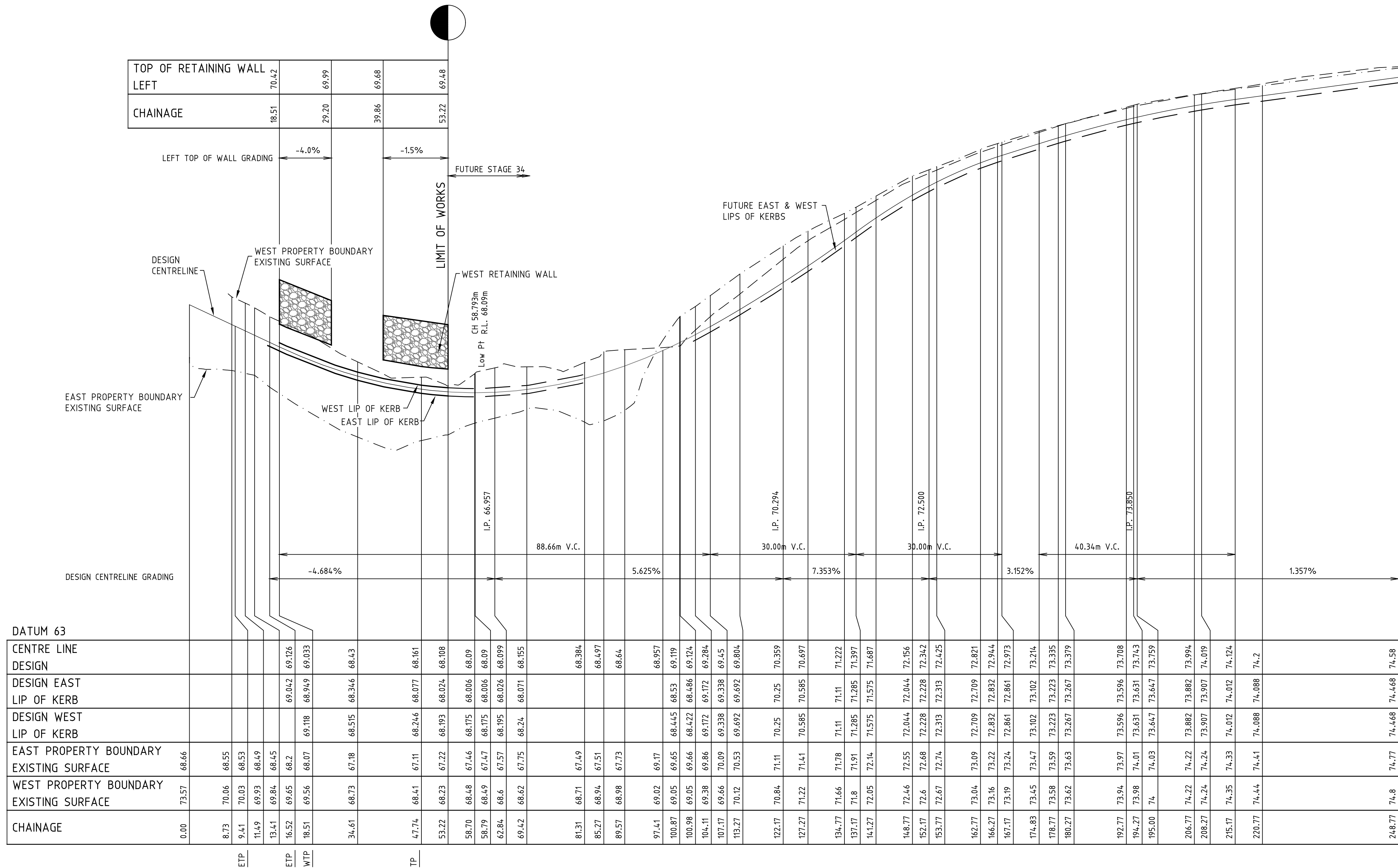


ROAD CROSS SECTIONS HAVANA CIRCUIT
SCALES HOR 1 : 100 VER 1 : 50

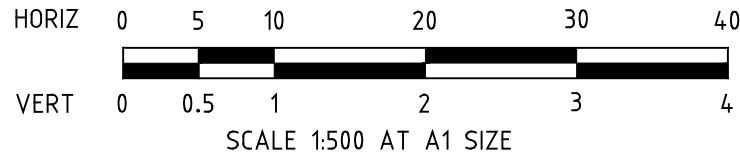


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				LEGEND										22 Business Park Drive Notting Hill 3168 A.C.N. 006 550 803 E: consulting@dpmvic.com.au W: www.dpmvic.com.au T: (03) 9538 5000  Consulting Group	DRAWN: J. BEVERIDGE		AUTHORITY: CITY OF MELTON		SCALE 1:100H, 1:50V	
				 GAS MAIN  PROPERTY INLET, DRAINAGE PITS  RECYCLED WATER MAIN  DRAINAGE PIT STAGE/NUMBER  TELECOMMUNICATIONS CABLE WATER CONDUIT GAS CONDUIT RECYCLED WATER CONDUIT COMBINED SERVICES CONDUIT  T.B.M.  P.S.M.  HOUSE DRAIN PROPOSED/EX.  EX./FUT. INLET, DRAINAGE PITS  DRAINAGE PIT STAGE/NUMBER  SEWER LINE AND STRUCTURES  EX-SEWER LINE AND STRUCTURES KERB AND CHANNEL EX./FUT. KERB AND CHANNEL KERB TO BE REMOVED OFFSITE STREET SIGN  CHAINAGES AND TANGENT POINTS  EXISTING SURFACE LEVEL  FINISHED LEVEL (TITLE BOUNDARY)  DESIGN TOP/TOE OF BATTER LEVEL  DESIGN PAVEMENT LEVEL PROPOSED CONTOUR LINE & LEVEL EXISTING CONTOUR LINE & LEVEL FILLING IN EXCESS OF 200mm CATCH DRAIN AND INVERT LEVEL  EX. BATTER  PROP. BATTER 10.00 F221.35 121.35 P21.350 12.350 																

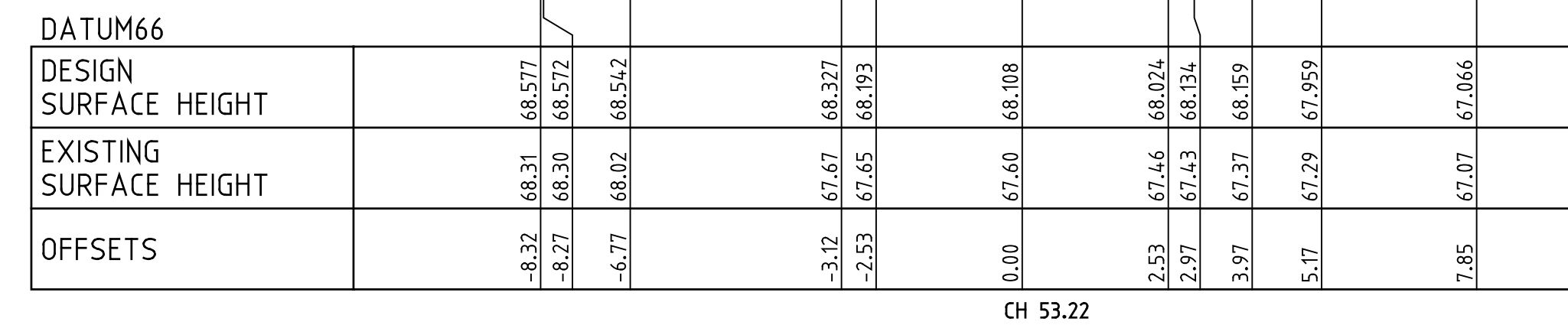
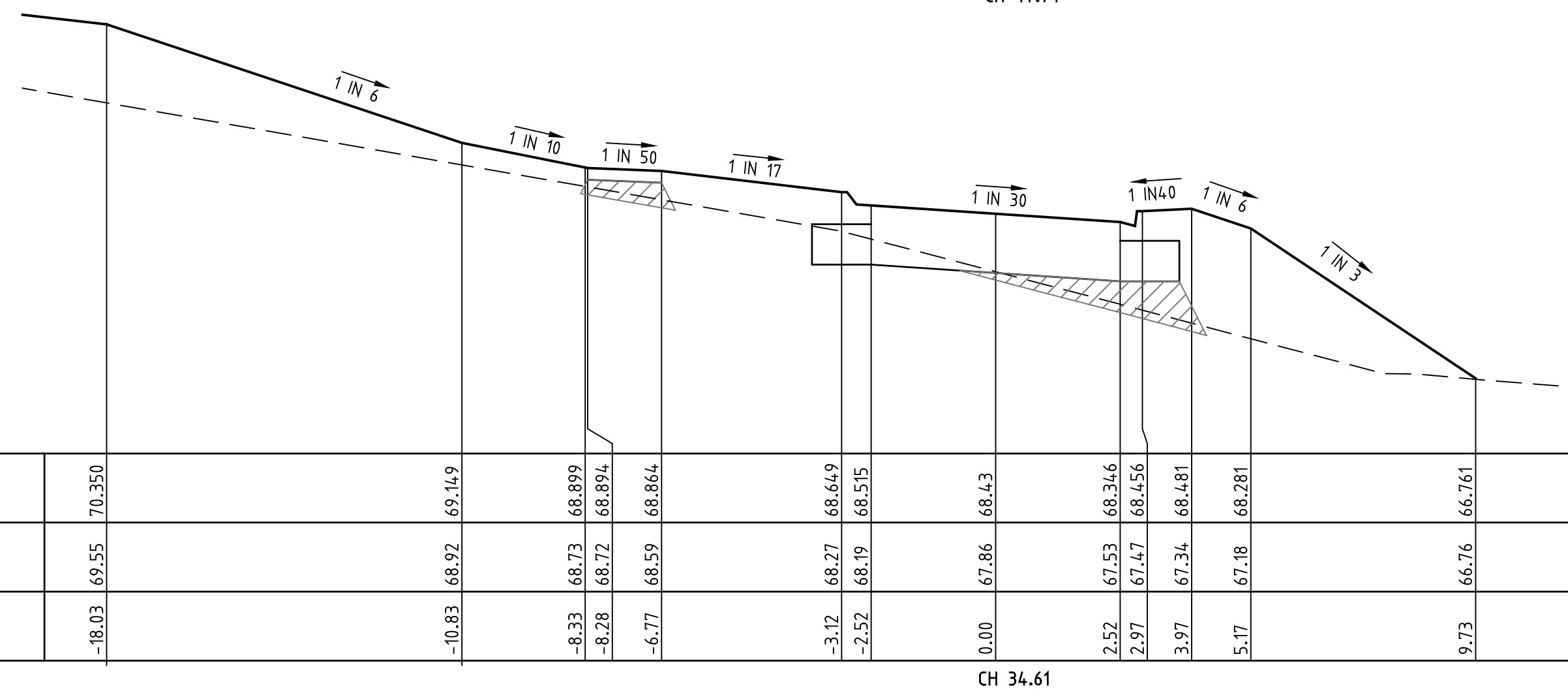


ROAD LONGITUDINAL SECTION BARDOT WAY
SCALES HOR 1 : 500 VER 1 : 50

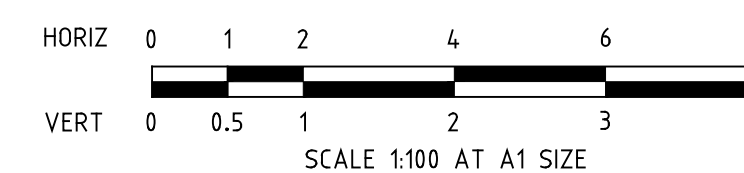


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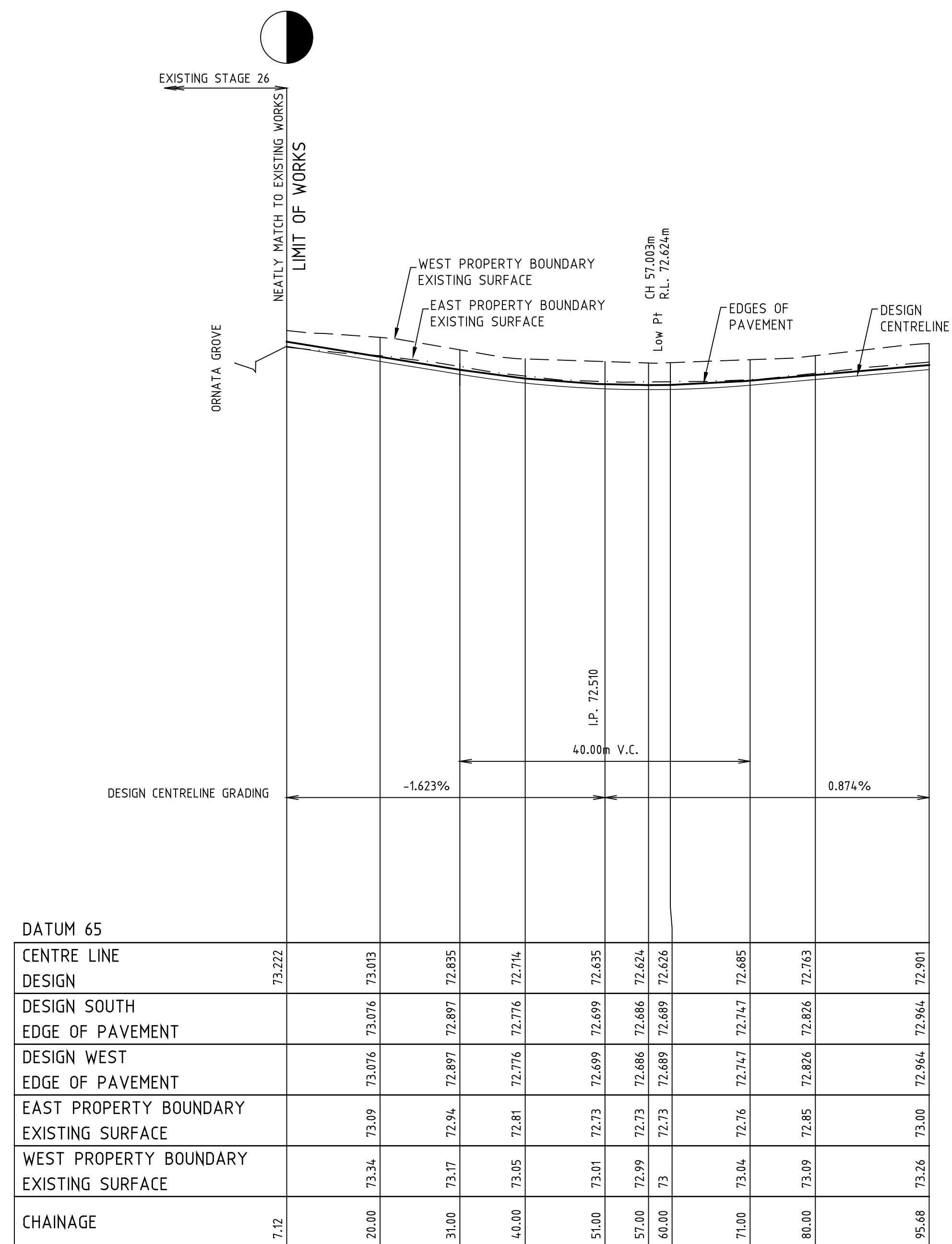


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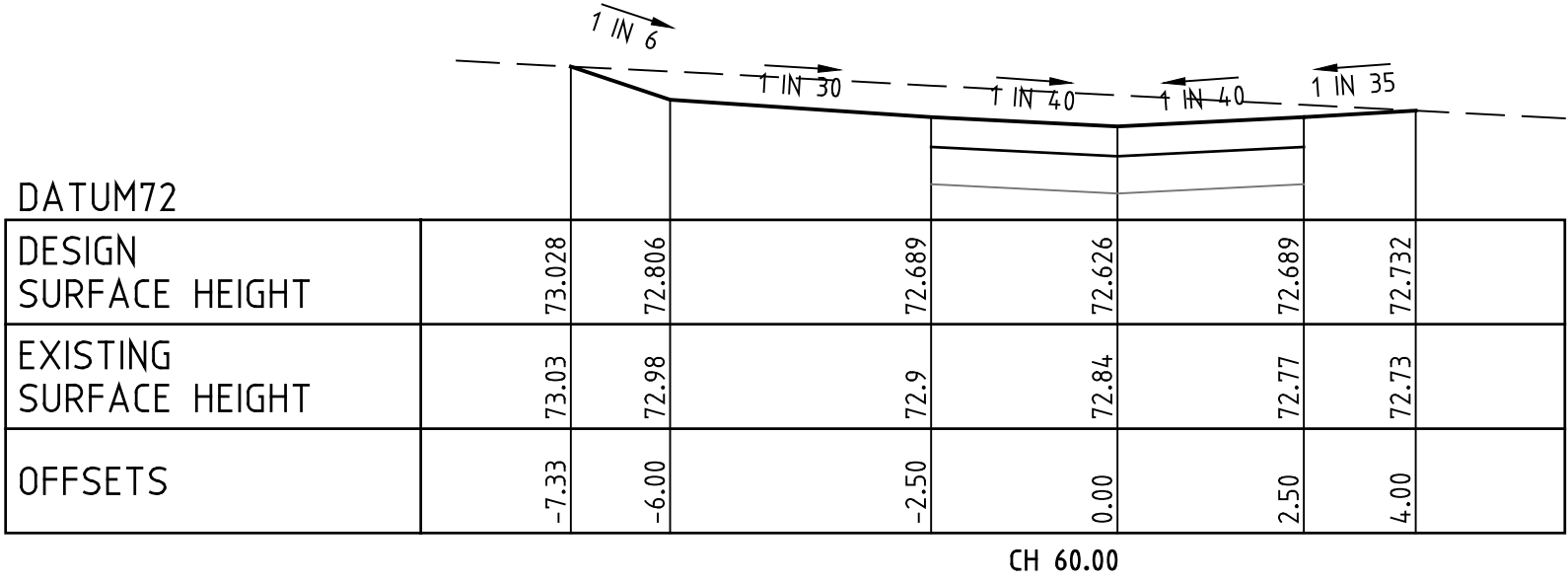
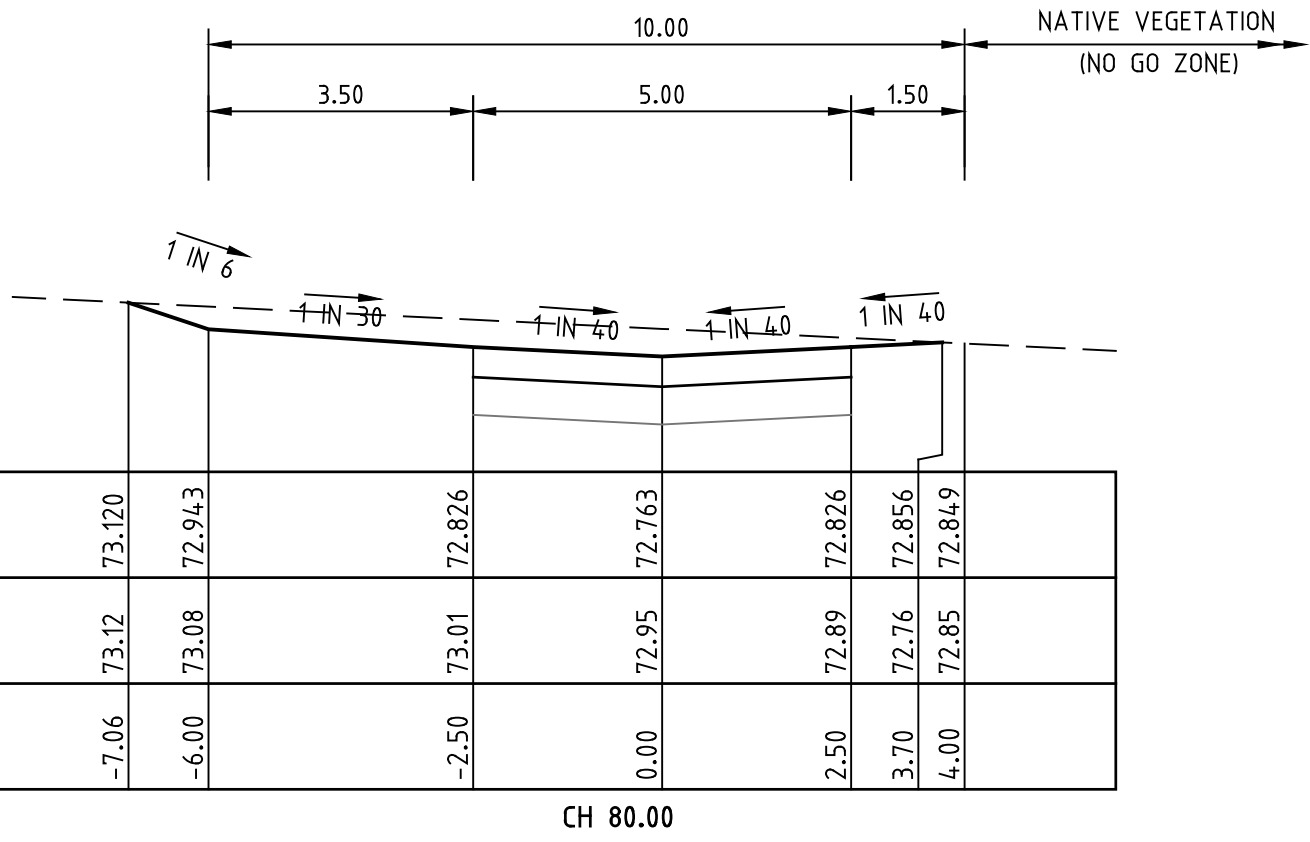
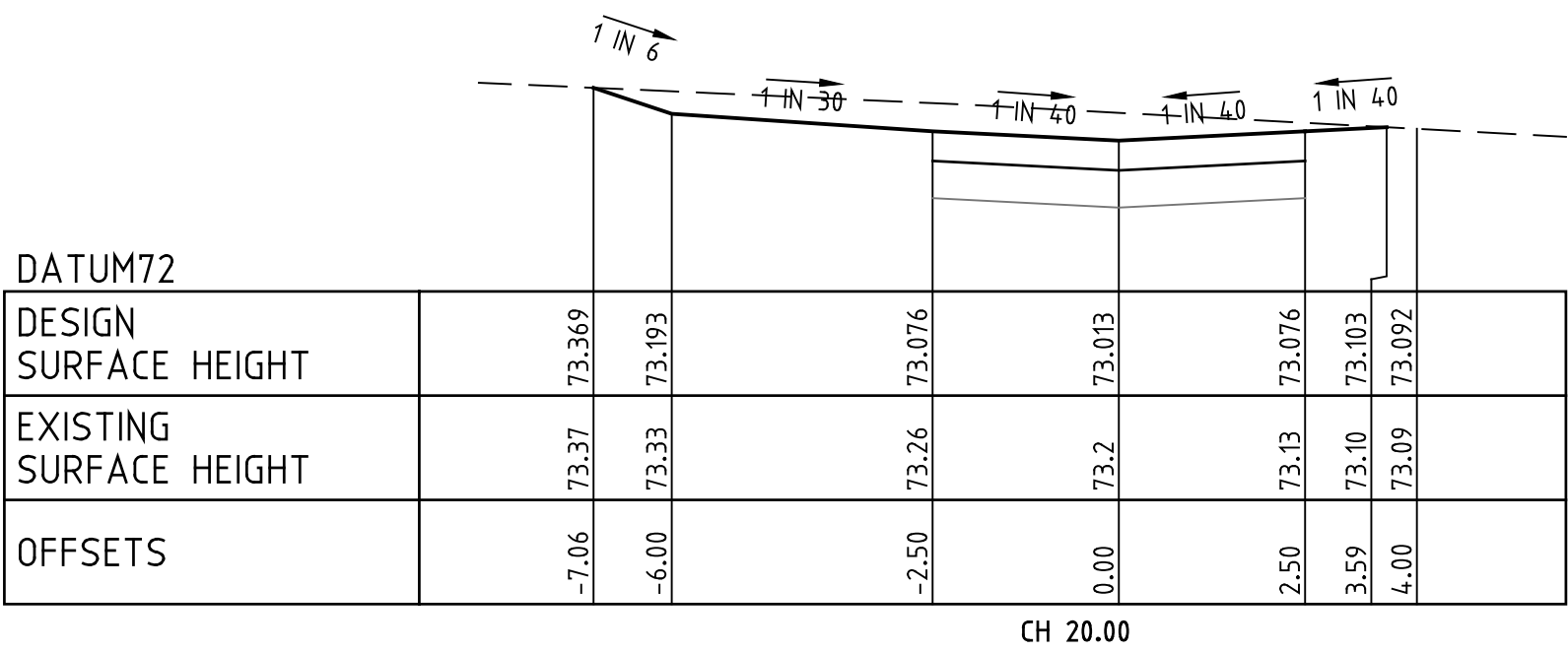
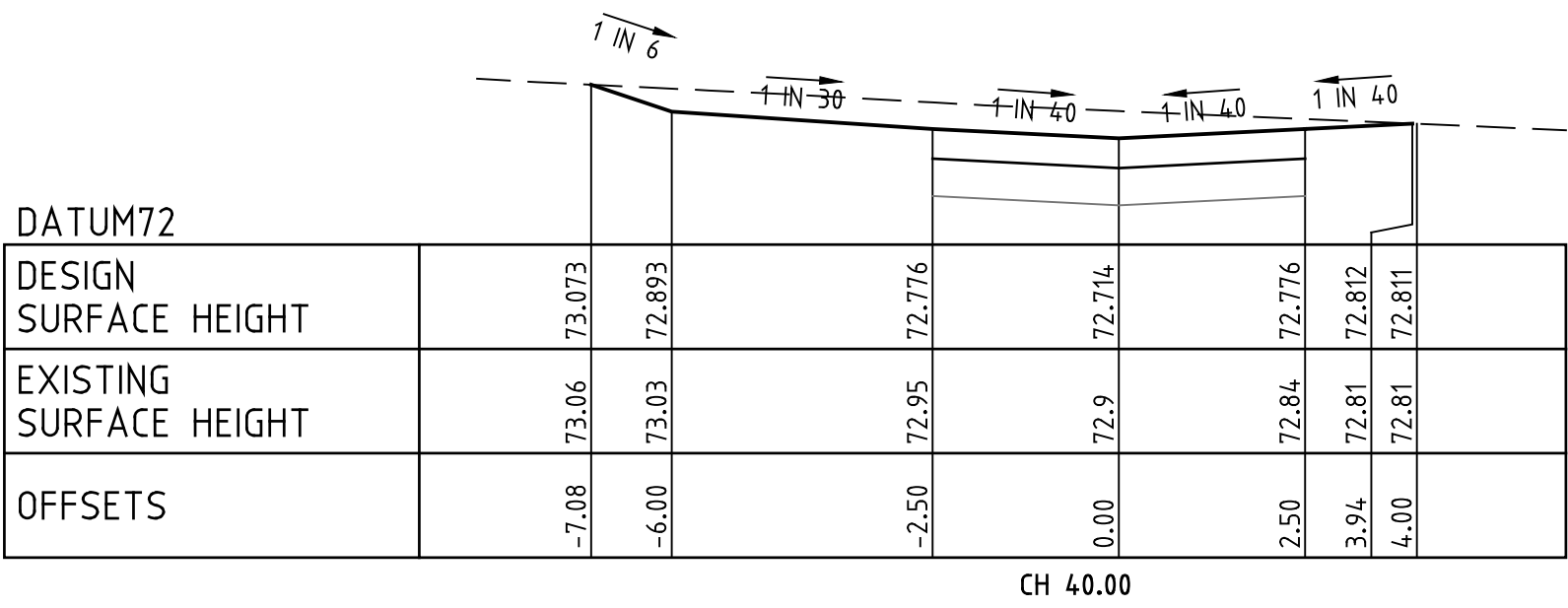
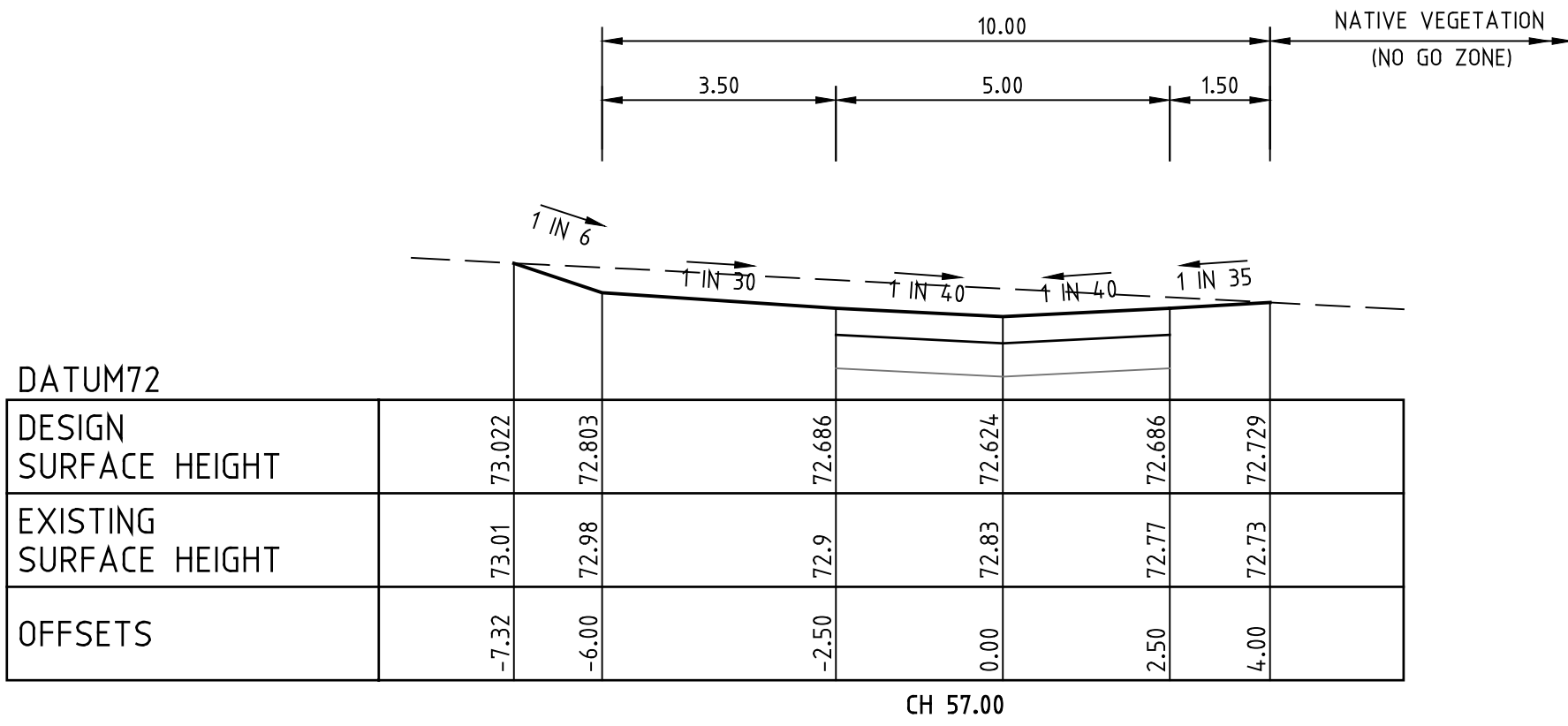


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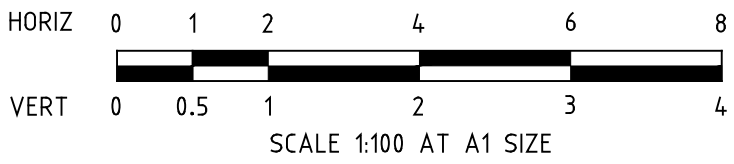


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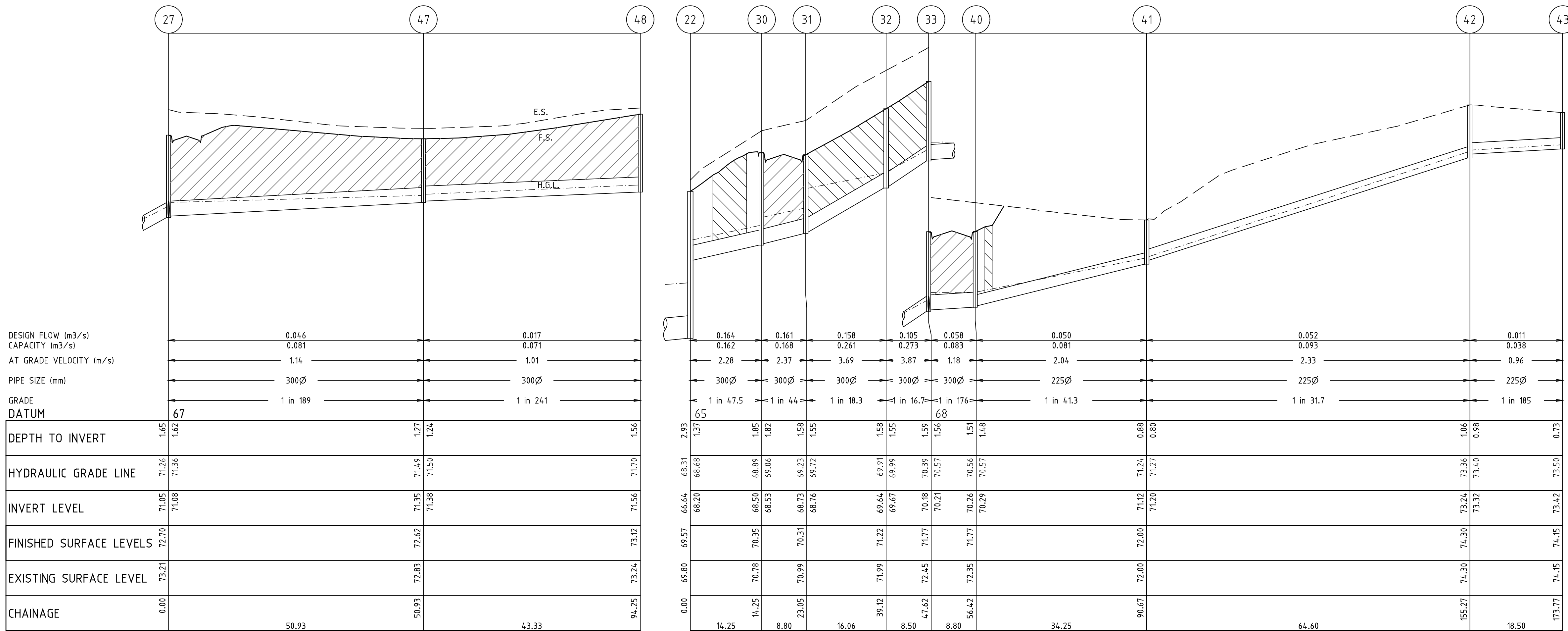
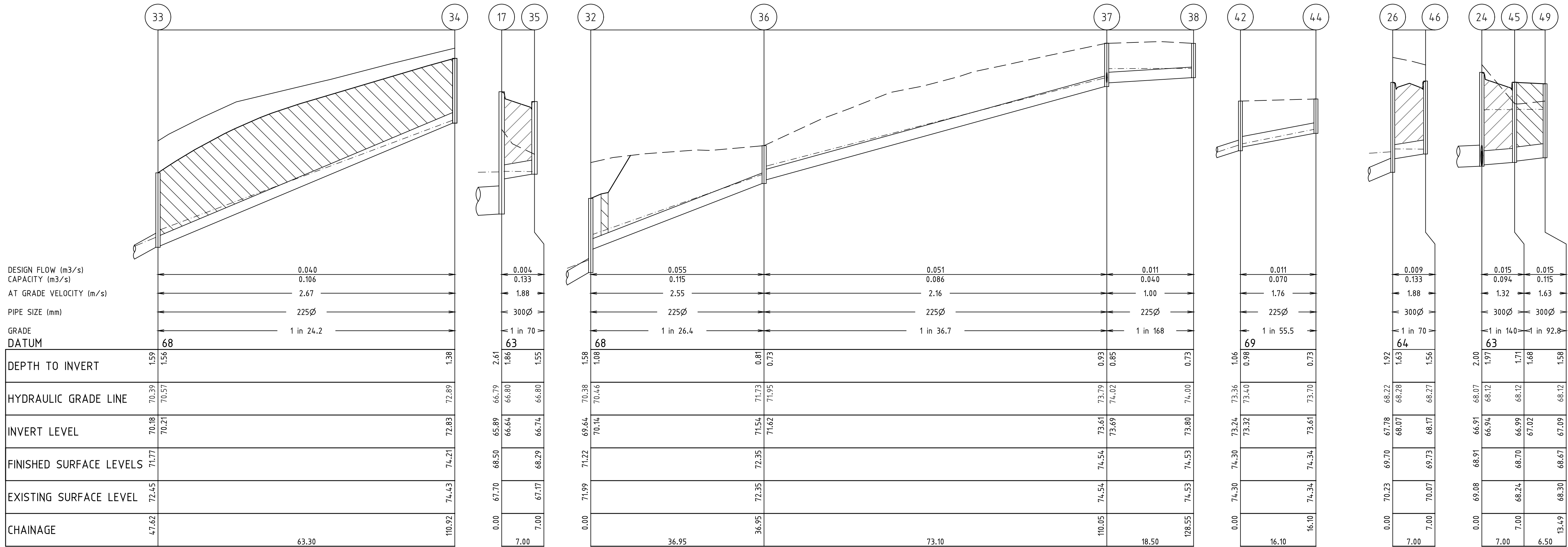
ROAD CROSS SECTIONS MELROSE GROVE

SCALES HOR 1 : 100 VER 1 : 50



AS CONSTRUCTED

				LEGEND				22 Business Park Drive Notting Hill 3168 A.C.N. 006 550 803 E: consulting@dpmvic.com.au W: www.dpmvic.com.au T: (03) 9538 5000			DRAWN: J. BEVERIDGE DESIGNED: J.BEVERIDGE CHECKED: M. COLE AUTHORISED: T. VETTIVEL DATE: 27/05/2022	AUTHORITY: CITY OF MELTON PROJECT: MODEINA STAGE 33 ROADS AND DRAINAGE DETAILS: MELROSE GROVE - CROSS SECTIONS -----	SCALE 1:100H, 1:50V LEVEL DATUM AHD SHEET 15 OF 20 DRAWING No. 1275/33/NE/15	REV. AC1																																																						
AC1	AS CONSTRUCTED	22/06/2023	M.C.	<table><tr><td>G</td><td>GAS MAIN</td><td>H</td><td>HOUSE DRAIN PROPOSED/EX.</td><td>CH 20.00</td><td>CH 20.00</td></tr><tr><td>W</td><td>WATER MAIN</td><td>P</td><td>PROPERTY INLET, DRAINAGE PITS</td><td>20.06</td><td>EXISTING SURFACE LEVEL</td></tr><tr><td>R</td><td>RECYCLED WATER MAIN</td><td>EX./FUT. INLET, DRAINAGE PITS</td><td>721.35</td><td>FINISHED LEVEL (TITLE BOUNDARY)</td><td></td></tr><tr><td>E</td><td>ELECTRICITY CABLE</td><td>DRAINAGE PIT STAGE/NUMBER</td><td>721.35</td><td>DESIGN TOP/TOE OF BATTER LEVEL</td><td></td></tr><tr><td>T</td><td>TELECOMMUNICATIONS CABLE</td><td>SEWER LINE AND STRUCTURES</td><td>P21.350</td><td>DESIGN PAVEMENT LEVEL</td><td></td></tr><tr><td>W</td><td>WATER CONDUIT</td><td>EX. SEWER LINE & STRUCTURES</td><td>9.20</td><td>PROPOSED CONTOUR LINE & LEVEL</td><td></td></tr><tr><td>G</td><td>GAS CONDUIT</td><td>KERB AND CHANNEL</td><td></td><td>EXISTING CONTOUR LINE & LEVEL</td><td></td></tr><tr><td>R</td><td>RECYCLED WATER CONDUIT</td><td>EX./FUT. KERB AND CHANNEL</td><td></td><td>FILLING IN EXCESS OF 200mm</td><td></td></tr><tr><td>C</td><td>COMBINED SERVICES CONDUIT</td><td>KERB TO BE REMOVED OFFSITE</td><td></td><td>CATCH DRAIN AND INVERT LEVEL</td><td></td></tr><tr><td>T.B.M.</td><td></td><td></td><td></td><td>EX. BATTER</td><td>PROP. BATTER</td></tr></table>	G	GAS MAIN	H	HOUSE DRAIN PROPOSED/EX.	CH 20.00	CH 20.00	W	WATER MAIN	P	PROPERTY INLET, DRAINAGE PITS	20.06	EXISTING SURFACE LEVEL	R	RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	721.35	FINISHED LEVEL (TITLE BOUNDARY)		E	ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	721.35	DESIGN TOP/TOE OF BATTER LEVEL		T	TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	P21.350	DESIGN PAVEMENT LEVEL		W	WATER CONDUIT	EX. SEWER LINE & STRUCTURES	9.20	PROPOSED CONTOUR LINE & LEVEL		G	GAS CONDUIT	KERB AND CHANNEL		EXISTING CONTOUR LINE & LEVEL		R	RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm		C	COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE		CATCH DRAIN AND INVERT LEVEL		T.B.M.				EX. BATTER	PROP. BATTER				
G	GAS MAIN	H	HOUSE DRAIN PROPOSED/EX.	CH 20.00	CH 20.00																																																															
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REV.	REVISION	DATE	APPD.																																																																	



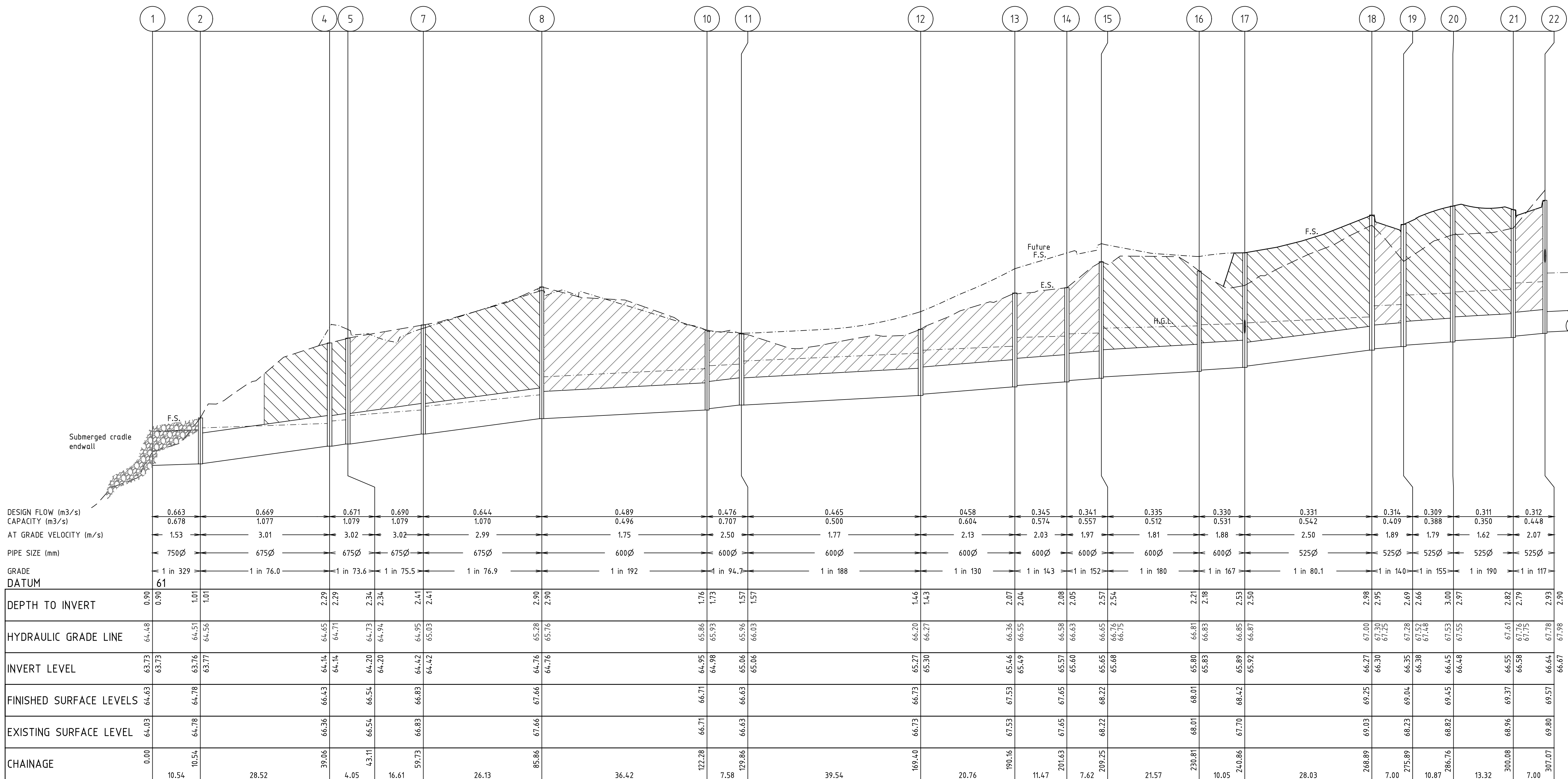
INDICATES CLASS 2 CRUSHED ROCK BACKFILL
INDICATES CLASS 3 CRUSHED ROCK BACKFILL

AS CONSTRUCTED

AC1	AS CONSTRUCTED	22/06/2023	M.C.	APPD.	LEGEND	22 Business Park Drive Notting Hill 3168 A.C.N. 006 550 803 E: consulting@dpmvic.com.au W: www.dpmvic.com.au T: (03) 9538 5000		DRAWN: J. BEVERIDGE DESIGNED: J. BEVERIDGE CHECKED: M. COLE AUTHORISED: T. VETTIVEL DATE: 27/05/2022	AUTHORITY: CITY OF MELTON PROJECT: MODEINA STAGE 33 ROADS AND DRAINAGE DETAILS: DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 3 ----	SCALE 1:500H, 1:50V LEVEL DATUM AHD SHEET 16 OF 20 DRAWING No. 1275/33/NE/16 REV. AC1
REV.	REVISION	DATE	APPD.							

INDICATES CLASS 2 CRUSHED ROCK BACKFILL

INDICATES CLASS 3 CRUSHED ROCK BACKFILL



AS CONSTRUCTED

				LEGEND											22 Business Park Drive Notting Hill 3168 A.C.N. 006 550 803 E: consulting@dpmvic.com.au W: www.dpmvic.com.au T: (03) 9538 5000	DRAWN: J. BEVERIDGE		AUTHORITY: CITY OF MELTON		SCALE 1:500H, 1:50V			
																DESIGNED: J.BEVERIDGE		PROJECT: MODEINA STAGE 33		LEVEL DATUM AHD			
																CHECKED: M. COLE		ROADS AND DRAINAGE		SHEET 17 OF 20			
																AUTHORISED: T. VETIVEL		DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 OF 3		DRAWING No.			
																DATE: 27/05/2022		-----		1275/33/NE/17			
AC1 AS CONSTRUCTED		22/06/2023		M.C.																REV. AC1			
REV.		REVISION		DATE		APPD.																	

PIT SCHEDULE												
PIT No.		INTERNAL		INLET		OUTLET		F.S.L.	PIT DEPTH			REMARKS
		WID.	LEN.	DIA.	INV. R.L.	DIA.	INV. R.L.					
1	EW	-	-	750	63.73	-	-	64.63	-			REFER TO SUBMERGED CRADLE ENDWALL DETAIL AT RIGHT
2	JP	1050	900	675	63.77	750	63.76	67.78	1.01			REFER EDCM 607. SHAFT TO BE 600x900mm.
4	GPT	DN3250	nom	675	64.14	675	64.14	66.43	2.29			OCEAN PROTECT - OCEAN SAVE2324
5	JP	1200	600	675	64.20	675	64.20	66.54	2.34			REFER EDCM 607. SHAFT TO BE 600x900mm.
7	JP	1050	900	675	64.42	600	64.42	66.83	2.41			REFER EDCM 607. SHAFT TO BE 600x900mm.
8	JP	1050	900	600	67.76	675	67.76	67.66	2.90			REFER EDCM 607. SHAFT TO BE 600x900mm.
10	JP	900	900	600	64.98	600	64.95	66.71	1.76			REFER EDCM 607. SHAFT TO BE 600x900mm.
11	JP	900	900	600	65.06	600	65.06	66.63	1.57			REFER EDCM 607. SHAFT TO BE 600x900mm.
12	JP	900	900	600	65.30	600	65.27	66.73	1.46			REFER EDCM 607. SHAFT TO BE 600x900mm.
13	JP	900	1050	600	65.49	600	65.46	67.53	2.07			REFER EDCM 607. SHAFT TO BE 600x900mm.
14	JP	900	900	600	65.60	600	65.57	67.65	2.08			REFER EDCM 607. SHAFT TO BE 600x900mm.
15	JP	900	900	600	65.68	600	65.65	68.22	2.57			REFER EDCM 607. SHAFT TO BE 600x900mm. H.D.GATIC COVER
16	JP	900	900	600	65.83	600	65.80	68.01	2.21			REFER EDCM 607. SHAFT TO BE 600x900mm. H.D.GATIC COVER
17	JP	900	900	525	65.92	600	65.89	68.50	2.61			REFER EDCM 607. SHAFT TO BE 600x900mm.
				300	66.64							
18	JP	600	900	525	66.30	525	66.27	69.27	3.00			REFER EDCM 605.
19	GSEP	900	600	525	66.38	525	66.35	69.06	2.71			REFER EDCM 601.
20	JP	600	900	525	66.48	525	66.45	69.45	3.00			REFER EDCM 605.
21	GSEP	600	900	525	66.58	525	66.55	69.37	2.82			REFER EDCM 601.
22	GSEP	900	600	450	66.67	525	66.64	69.57	2.93			REFER EDCM 603.
				300	68.20							
24	JP	600	900	300	66.94	450	66.91	68.91	2.00			REFER EDCM 605.
				300	66.94							
25	GSEP	600	900	300	67.38	300	67.38	69.20	1.82			REFER EDCM 603.
26	GSEP	600	900	300	67.81	300	67.78	69.70	1.92			REFER EDCM 603.
				300	68.07							
27	JP	600	900	300	71.08	300	71.05	72.70	1.65			REFER EDCM 605.
				300	71.08							
28	GSEP	600	900	300	71.95	300	71.92	73.54	1.62			REFER EDCM 603.
29	GSEP	900	600	-	-	300	71.99	73.54	1.55			REFER EDCM 603. PROVIDE H.D. GATIC COVER.
30	GSEP	600	900	300	68.53	300	68.50	70.35	1.85			REFER EDCM 603.
31	GSEP	900	600	300	68.76	300	68.73	70.31	1.58			REFER EDCM 603.
32	JP	600	900	300	69.67	300	69.64	71.22	1.58			REFER EDCM 605.
				225	70.14							
33	GSEP	600	900	300	70.21	300	70.18	71.77	1.59			REFER EDCM 603.
				225	70.21							
34	JP	600	900	-	-	225	72.83	74.21	1.38			REFER EDCM 605.
35	GSEP	900	600	-	-	300	66.74	68.29	1.55			REFER EDCM 603.
36	JP	900	600	225	71.62	225	71.54	72.35	0.81			REFER EDCM 605.
37	JP	900	600	225	73.69	225	73.61	74.54	0.93			REFER EDCM 605.
				225	73.69							
38	JP	600	900	-	-	225	73.80	74.53	0.73			REFER EDCM 605.
40	GSEP	900	600	225	70.29	300	70.26	71.77	1.51			REFER EDCM 603.
41	JP	600	900	225	72.20	225	72.12	72.00	0.88			REFER EDCM 605.
42	JP	900	600	225	73.32	225	72.24	74.30	1.06			REFER EDCM 605.
				225	73.32							
43	JP	600	900	-	-	225	73.42	74.15	0.73			REFER EDCM 605.
44	JP	600	900	-	-	225	73.61	74.34	0.73			REFER EDCM 605.
45	JP	900	600	300	67.02	300	66.99	68.70	1.71			REFER EDCM 605.
46	GSEP	900	600	-	-	300	68.17	69.73	1.56			REFER EDCM 603.
47	JP	600	900	300	71.38	300	71.35	72.62	1.27			REFER EDCM 605. PROVIDE HEAVY DUTY GRATED COVER.
48	JP	600	900	-	-	300	71.56	73.12	1.56			REFER EDCM 605. PROVIDE HEAVY DUTY GRATED COVER.
49	DGSEP	900	600	-	-	300	67.09	68.67	1.58			REFER EDCM 602.

INDICATES CLASS 2 CRUSHED ROCK BACKFILL

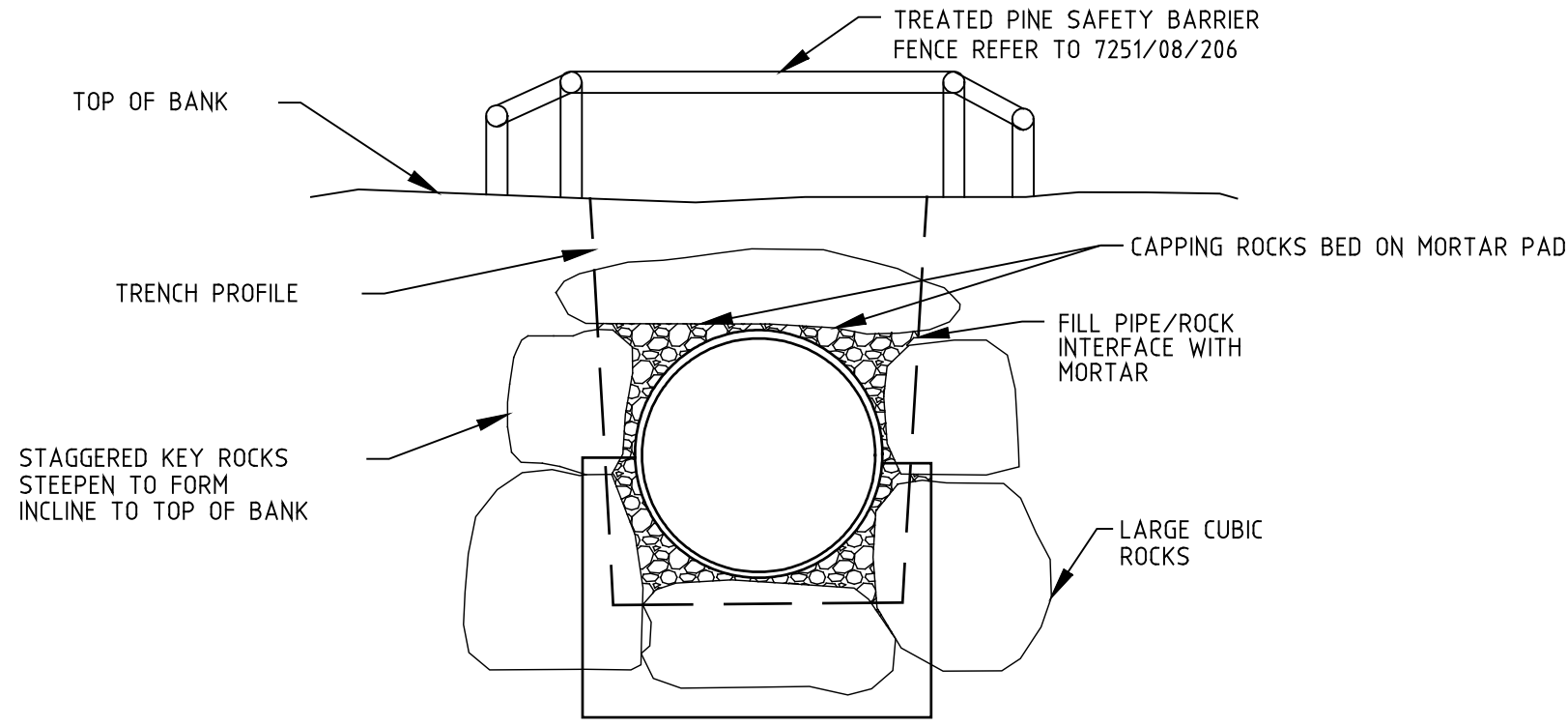
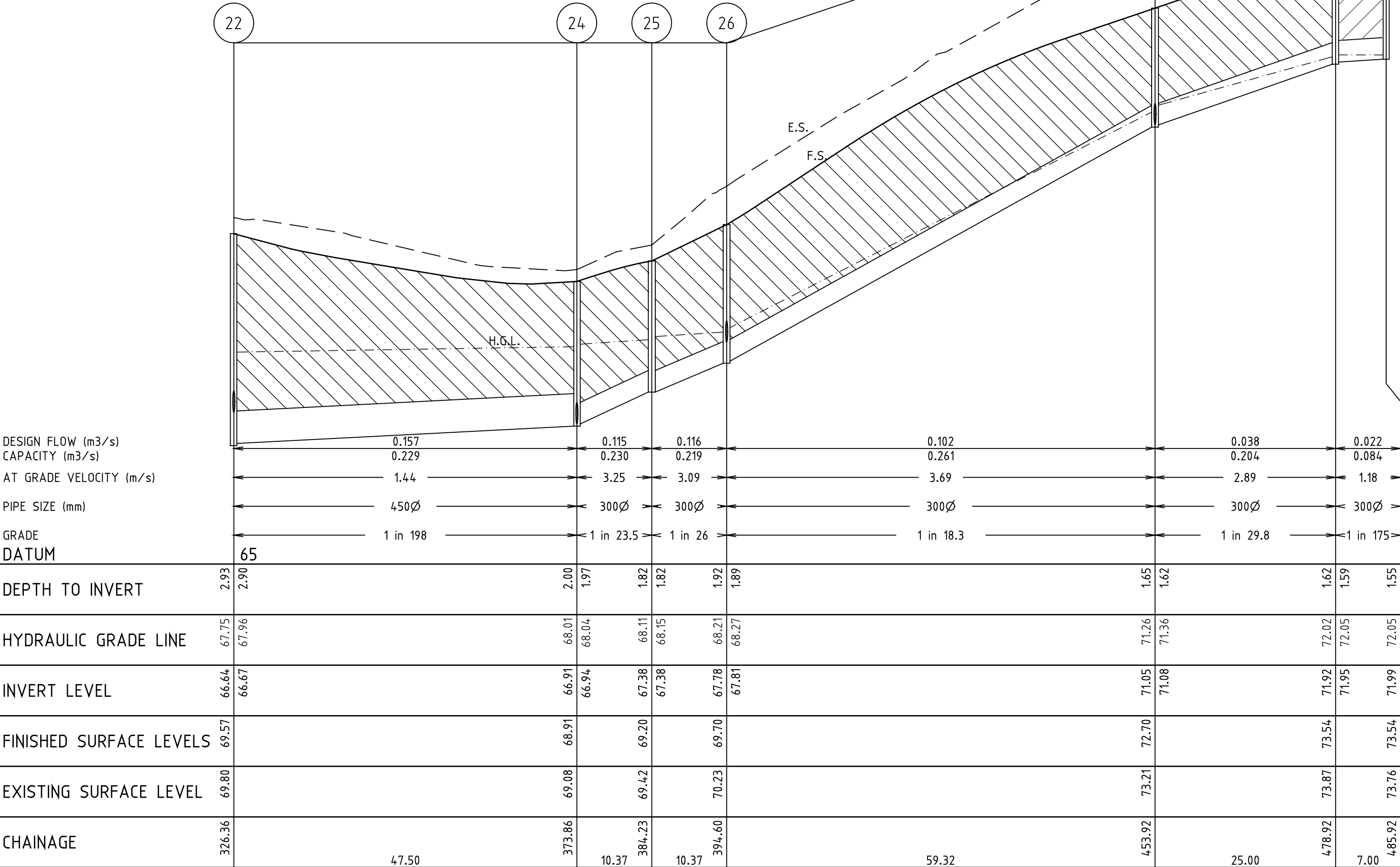
INDICATES CLASS 3 CRUSHED ROCK BACKFILL

NOTATION:
JP = JUNCTION PIT
SEP = SIDE ENTRY PIT
DSEP = DOUBLE SIDE ENTRY PIT
EP = END OF PIPE
x = DOUBLE HAUNCHED PIT
WIDTH OF PIT IS MEASURED AT THE OUTLET

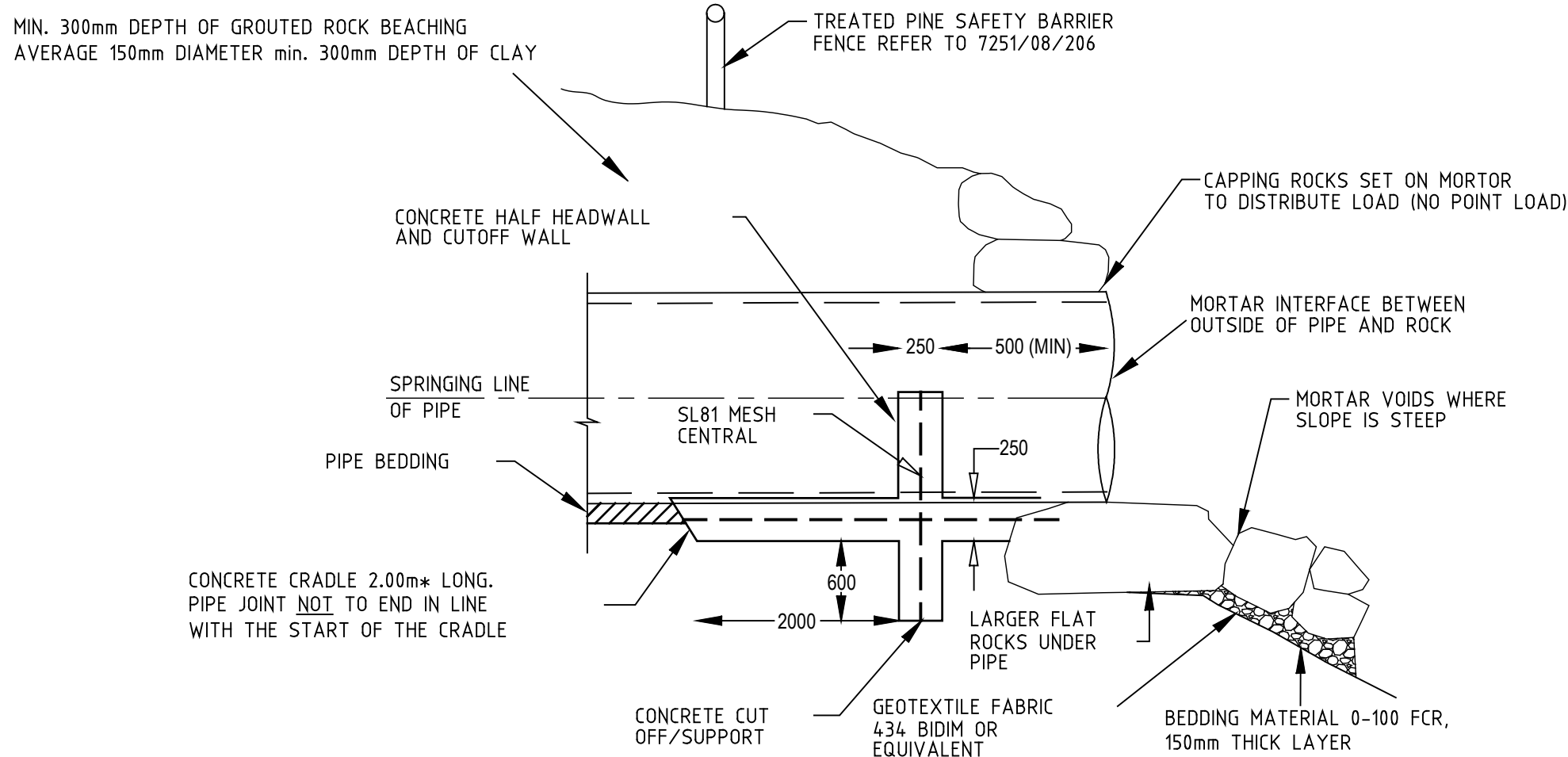
PITS 5 TO 10 ARE TO BE CONSTRUCTED WITH A MELTHOID STRIP AT 500mm BELOW THE COVER LEVEL TO ALLOW FOR FUTURE ADJUSTMENT AND CONVERSION TO GSEPs WHERE APPLICABLE.

PITS 10, 11 & 12 ARE TO BE FUTURE GRATED JUNCTION PITS & ARE TO BE POSITIONED TO SUIT THE INVERT OF THE FUTURE CONCRETE ROAD.

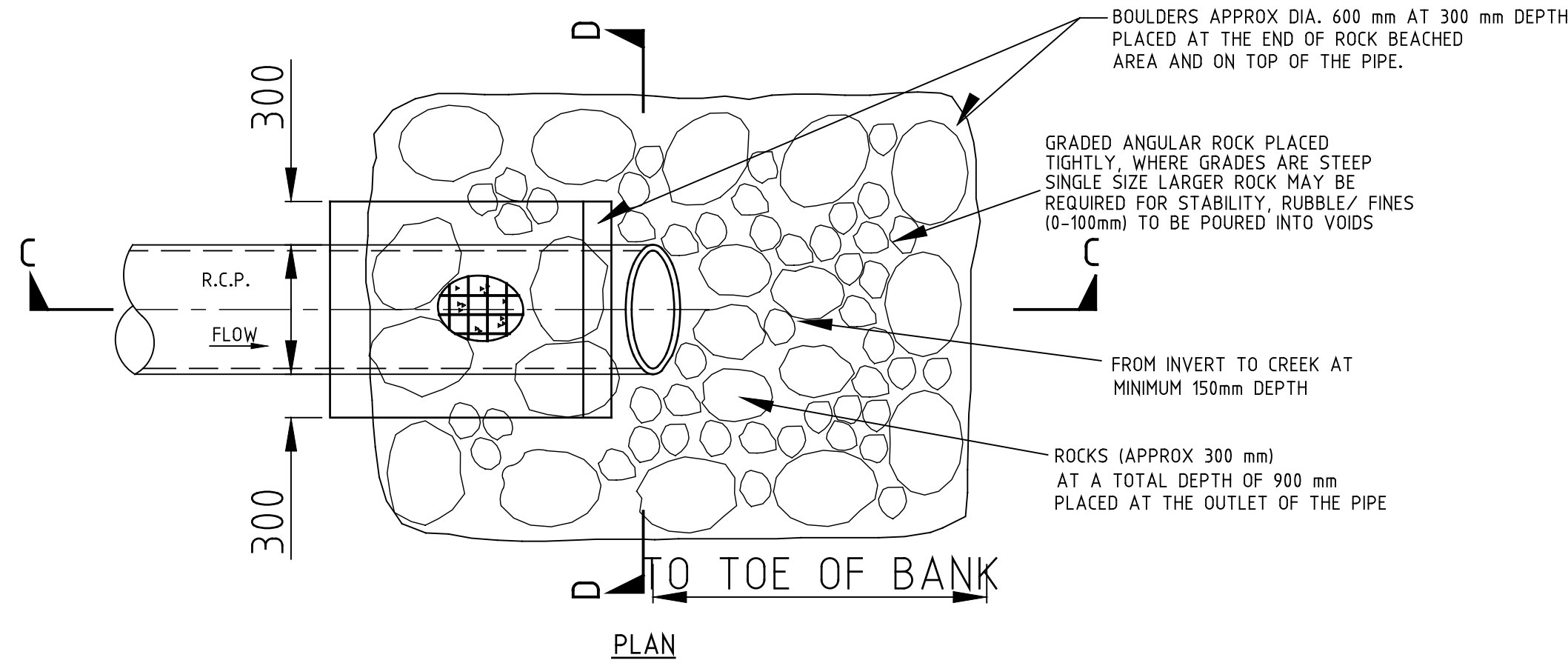
PITS 5, 6, 7, 8, 13, 14, 15 & 18 ARE TO BE POSITIONED TO SUIT THE ALIGNMENT OF THE FUTURE K&Ch AS PER THE BACK OF KERB OFFSETS SHOWN.



SECTION D-D



SECTION C-C



PLAN

SUBMERGED CRADLE TYPE ENDWALL DETAIL

DRAINAGE NOTES:

1. THE EXACT LOCATION OF THIS STRUCTURE IS TO BE LOCATED ON SITE BY THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF THE WORKS, TAKING INTO ACCOUNT PROXIMITY OF EXISTING VEGETATION AND TOPOGRAPHY.
2. DISTURBED AREAS OF EXISTING BANK RESULTING FROM THESE WORKS ARE TO BE STABILISED WITH REVEGETATION.
3. THE CONTRACTOR IS TO PROVIDE HAY BALES STAKED INTO THE GROUND, IMMEDIATELY DOWNSTREAM OF THESE WORKS TO COLLECT RUNOFF OF SILT WHILST WORKS ARE IN PROGRESS.
4. VOIDS TO BE MINIMISED BY USE OF GRADED ROCK AS SPECIFIED TO ENSURE THAT STORMWATER DISCHARGE FLOWS OVER AND AROUND THE ROCKS AND NOT UNDERNEATH.
5. ROCK GRADING TO BE AS FOLLOWS:-
FOR D₅₀ = 350 - 400, ROCK TO BE FULLY GRADED FROM 150 TO 450
D₁₀ = 150 & D₉₀ = 600
FOR D₅₀ = 250 - 300, ROCK TO BE FULLY GRADED FROM 150 TO 450
D₁₀ = 150 & D₉₀ = 450
THERE IS NO REQUIREMENT FOR MORTAR BEDDING. ANY FILLING PLACED INTO ROCKWORK TO FILL GAPS IS TO BE CONSOLIDATED TO THE SATISFACTION OF THE SUPERINTENDENT.

AS CONSTRUCTED

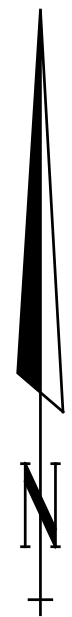
				LEGEND							
				GAS MAIN	HOUSE DRAIN PROPOSED/EX.	CHAINAGES AND TANGENT POINTS					
				WATER MAIN	PROPERTY INLET, DRAINAGE PITS	EXISTING SURFACE LEVEL					
				RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	FINISHED LEVEL (TITLE BOUNDARY)					
				ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	DESIGN TOP/TOE OF BATTER LEVEL					
				TELECOMMUNICATIONS CABLE	EX./FUT. INLET, DRAINAGE PITS	DESIGN PAVEMENT LEVEL					
				WATER CONDUIT	EX./FUT. INLET, DRAINAGE PITS	PROPOSED CONTOUR LINE & LEVEL					
				GAS CONDUIT	EX./FUT. INLET, DRAINAGE PITS	EXISTING CONTOUR LINE & LEVEL					
				RECYCLED WATER CONDUIT	EX./FUT. INLET, DRAINAGE PITS	FILLING IN EXCESS OF 200mm					
				COMBINED SERVICES CONDUIT	EX./FUT. INLET, DRAINAGE PITS	CATCH DRAIN AND INVERT LEVEL					
				T.B.M.	EX./FUT. INLET, DRAINAGE PITS	EX. BATTER					
				P.S.M.	EX./FUT. INLET, DRAINAGE PITS	PROP. BATTER					
AC1	AS CONSTRUCTED	22/06/2023	M.C.								
REV.	REVISION	DATE	APPD.								

22 Business Park Drive Notting Hill 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

DRAWN: J. BEVERIDGE
DESIGNED: J. BEVERIDGE
CHECKED: M. COLE
AUTHORISED: T. VETTIVEL
DATE: 27/05/2022

AUTHORITY: CITY OF MELTON
PROJECT: MODEINA STAGE 33
ROADS AND DRAINAGE
DETAILS: DRAINAGE LONGITUDINAL SECTIONS - SHEET 3 OF 3,
PIT SCHEDULE & CRADLE TYPE ENWALL DETAIL

SCALE 1:500H, 1:50V
LEVEL DATUM AHD
SHEET 18 OF 20
DRAWING No. 1275/33/NE/18
REV. AC1



NOTE:
THE LOCATIONS OF TGSIs SHOWN ON THESE PLANS ARE INDICATIVE ONLY. TGSIs ARE TO BE INSTALLED IN ACCORDANCE WITH CITY OF MELTON STANDARD DRAWING MCC 403 AND AS 1428.4. REFER TO VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2, TABLE 18.3 FOR LINEMARKING DETAILS.

SIGNAGE LEGEND

A

STREET SIGN - DOUBLE BLADE

B

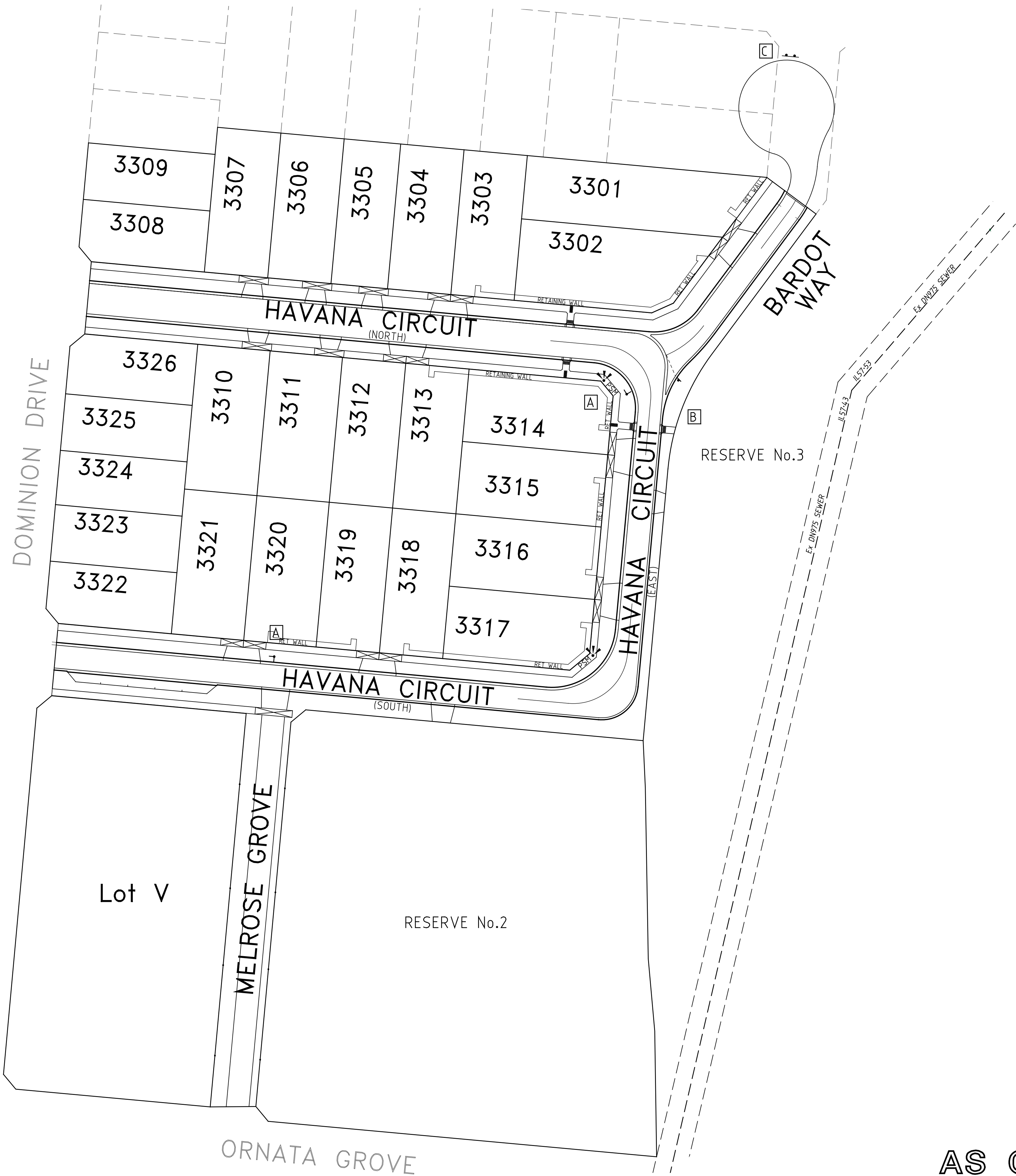
GIVE WAY SIGN (R1-2A) - CLASS 1.

C

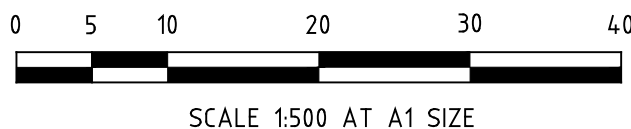
NO ROAD AND OBSTRUCTION MARKER SIGN (D4-5).

TGSI

TGSI - to be located and installed in accordance with AS1428.4.



SIGNAGE & LINEMARKING PLAN

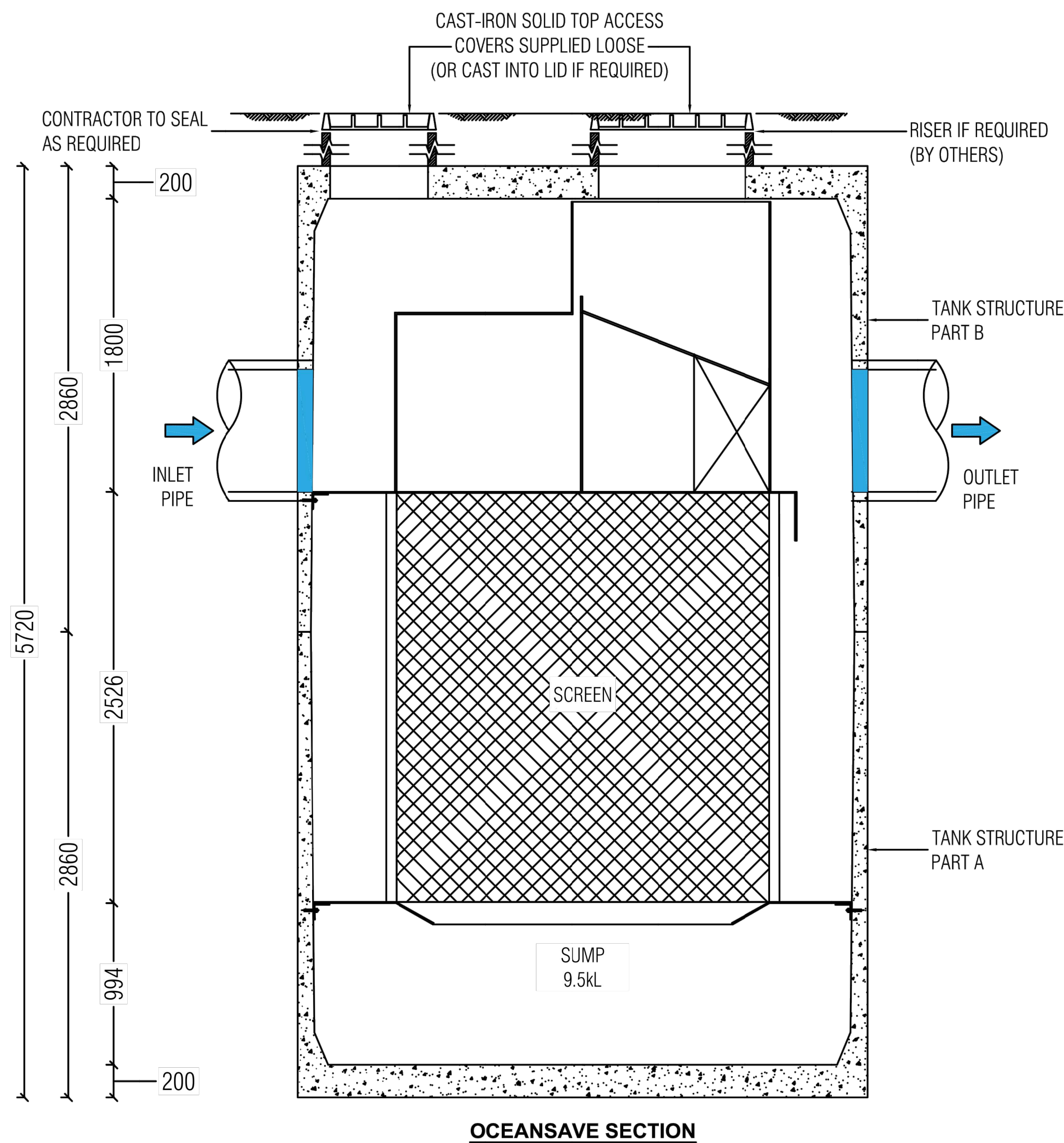
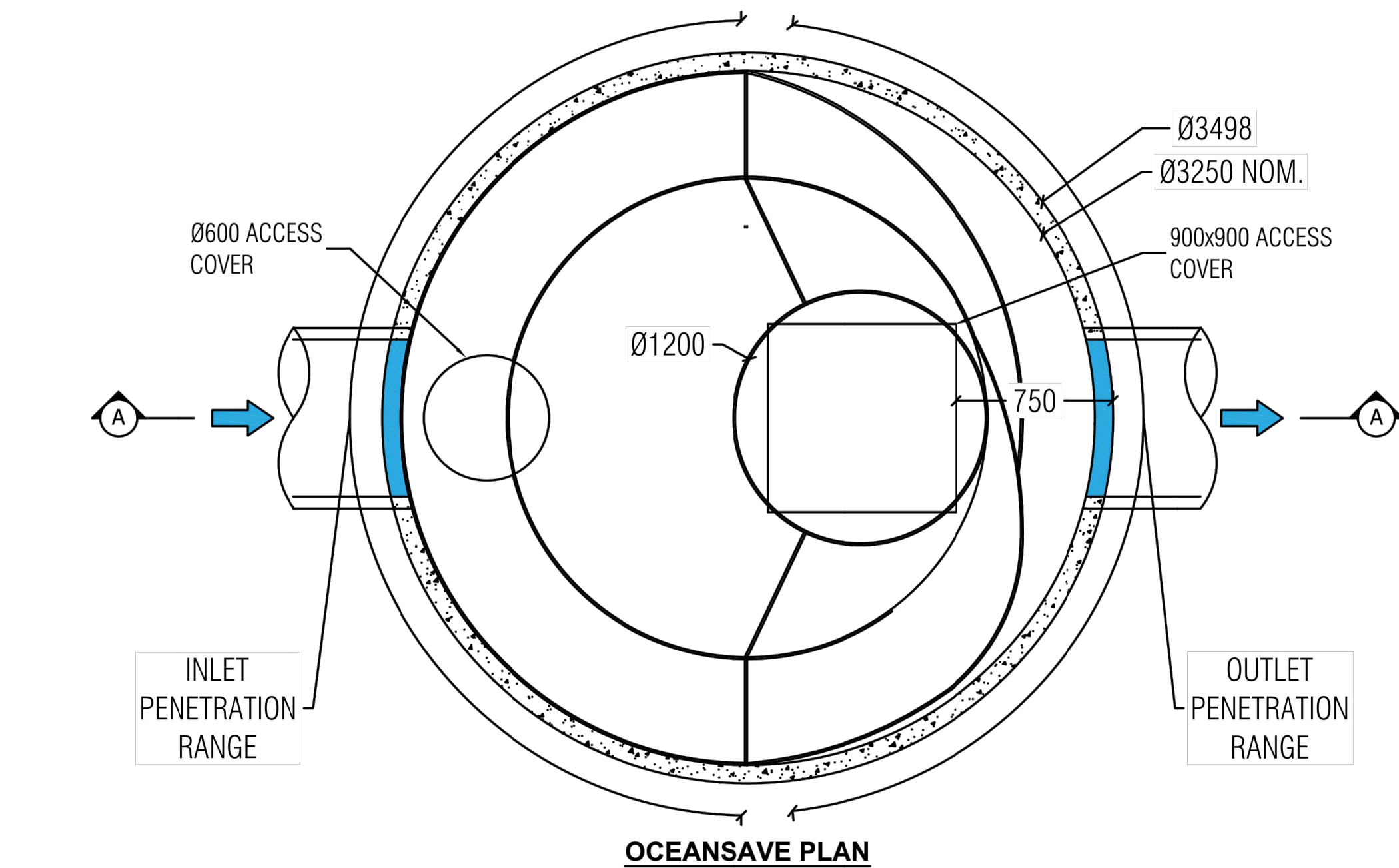


AS CONSTRUCTED

				LEGEND																				22 Business Park Drive Notting Hill 3168 A.C.N. 006 550 803 E: consulting@dpmvmc.com.au W: www.dpmvmc.com.au T: (03) 9538 5000		DRAWN: J. BEVERIDGE		AUTHORITY: CITY OF MELTON		SCALE 1:500	
DESIGNED: J.BEVERIDGE		PROJECT: MODEINA STAGE 33		LEVEL DATUM AHD																											
CHECKED: M. COLE		ROADS AND DRAINAGE		SHEET 19 OF 20																											
AUTHORISED: T. VETTIVEL		SIGNAGE & LINEMARKING PLAN		DRAWING No.																											
DATE: 27/05/2022		-----		1275/33/NE/19																											
				REV.																											
				AC1																											

AC1	AS CONSTRUCTED	22/06/2023	M.C.		
REV.	REVISION	DATE	APPD.		

NOT FOR CONSTRUCTION

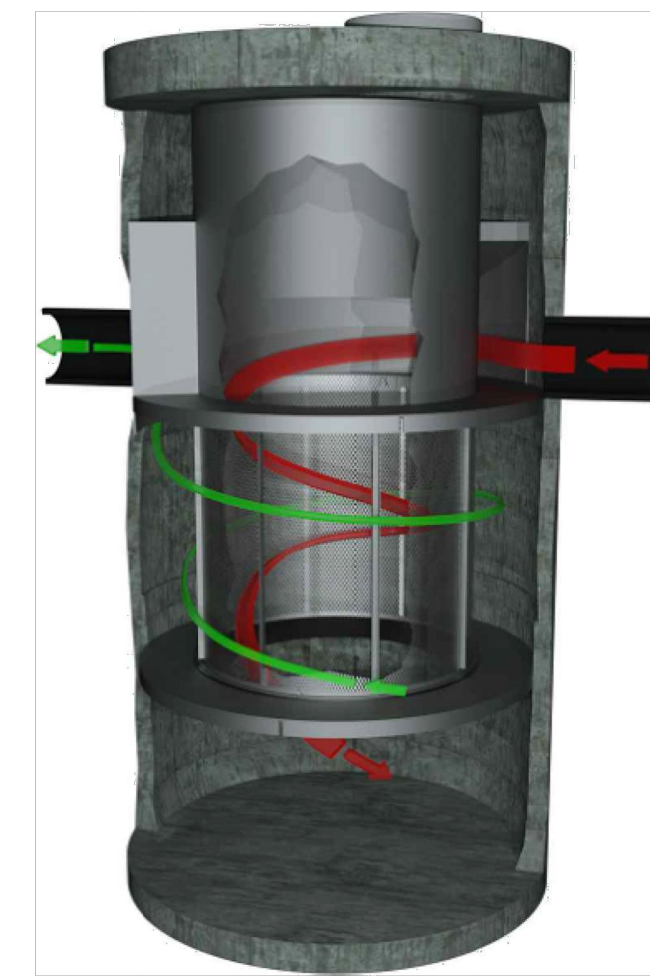


LAST MODIFIED: 25-02-19

OCEANSAVE DESIGN TABLE

TO BE INSTALLED ONLINE THE TOTAL INLET PIPE FLOW RATE MUST BE LESS THAN THE SPECIFIED UNITS LISTED MAXIMUM TOTAL FLOW RATE; THE UNIT MUST BE PLACED OFFLINE WHERE THE INLET FLOW RATE EXCEEDS THIS VALUE.

TREATABLE FLOWRATE [L/s]	870
MAXIMUM TOTAL FLOWRATE [L/s]	1680
WEIR HEIGHT [mm]	1200



SITE SPECIFIC DATA REQUIREMENTS

TOTAL FLOWRATE THROUGH INLET [L/S]		[]	
PIPE DATA:	I.L.	MATERIAL	DIAMETER
INLET PIPE	[]	[]	[]
OUTLET PIPE	[]	[]	[]
UPPER TANK WEIGHT		10630kg	
LOWER TANK WEIGHT		11160kg	

NOTE: TANK SUPPLIED IN TWO PARTS; PARTS A & B TO BE JOINED ON SITE

GENERAL NOTES

- OCEANSAVE WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF THE PROJECT.
- PRECAST STRUCTURE SUPPLIED WITH CORE HOLES TO SUIT OUTER DIAMETER OF NOMINATED PIPE SIZE / MATERIAL.
- PRECAST STRUCTURE SHALL MEET W80 WHEEL LOAD RATING ASSUMING A MAXIMUM EARTH COVER OF 2.0m AND A GROUND WATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER TO CONFIRM ACTUAL GROUNDWATER ELEVATION. PRECAST STRUCTURE SHALL BE IN ACCORDANCE WITH AS3600.
- ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR GUIDELINES AND ACCESS REQUIREMENTS.
- SITE SPECIFIC PRODUCTION DRAWING WILL BE PROVIDED ON PLACEMENT OF ORDER.
- DRAWING NOT TO SCALE.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE SPECIFIC DESIGN CONSIDERATION AND SHALL BE SPECIFIED BY THE SITE CIVIL ENGINEER.
- CONTRACTOR TO PROVIDE ALL EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING DETAIL PROVIDED SEPARATELY).
- CONTRACTOR TO INSTALL AND LEVEL THE STRUCTURE, APPLY SEALANT TO ALL JOINTS AND TO PROVIDE, INSTALL AND GROUT INLET AND OUTLET PIPES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT SCREEN & SEPARATION CYLINDER COMPONENTS DURING INSTALLATION



PHONE: 1300 354 722

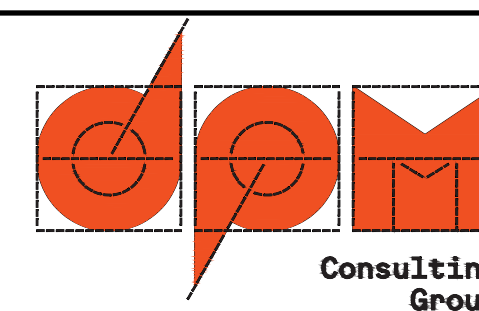
www.oceanprotect.com.au

OCEAN PROTECT
OCEANSAVE 2324
SPECIFICATION DRAWING

AS CONSTRUCTED

REV.	REVISION	DATE	APPD.	LEGEND
AC1	AS CONSTRUCTED	22/06/2023	M.C.	
				LEGEND
				GAS MAIN
				WATER MAIN
				RECYCLED WATER MAIN
				ELECTRICITY CABLE
				TELECOMMUNICATIONS CABLE
				WATER CONDUIT
				GAS CONDUIT
				RECYCLED WATER CONDUIT
				COMBINED SERVICES CONDUIT
				T.B.M.
				P.S.M.
				HOUSE DRAIN PROPOSED/EX.
				PROPERTY INLET, DRAINAGE PITS
				EX./FUT. INLET, DRAINAGE PITS
				DRAINAGE PIT STAGE/NUMBER
				SEWER LINE AND STRUCTURES
				EX./FUT. SEWER LINE AND STRUCTURES
				KERB AND CHANNEL
				EX./FUT. KERB AND CHANNEL
				KERB TO BE REMOVED OFFSITE
				STREET SIGN
				CHAINAGES AND TANGENT POINTS
				EXISTING SURFACE LEVEL
				FINISHED LEVEL (TITLE BOUNDARY)
				DESIGN TOP/TOE OF BATTER LEVEL
				DESIGN PAVEMENT LEVEL
				PROPOSED CONTOUR LINE & LEVEL
				EXISTING CONTOUR LINE & LEVEL
				FILLING IN EXCESS OF 200mm
				CATCH DRAIN AND INVERT LEVEL
				EX. BATTER
				PROP. BATTER

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DATE: 27/05/2022

AUTHORITY: CITY OF MELTON
PROJECT: MODEINA STAGE 33
ROADS AND DRAINAGE
DETAILS: OCEANSAVE 2324 SPECIFICATION DRAWING

SCALE N.T.S.
LEVEL DATUM AHD
SHEET 20 OF 20
DRAWING No. 1275/33/NE/20
REV. AC1