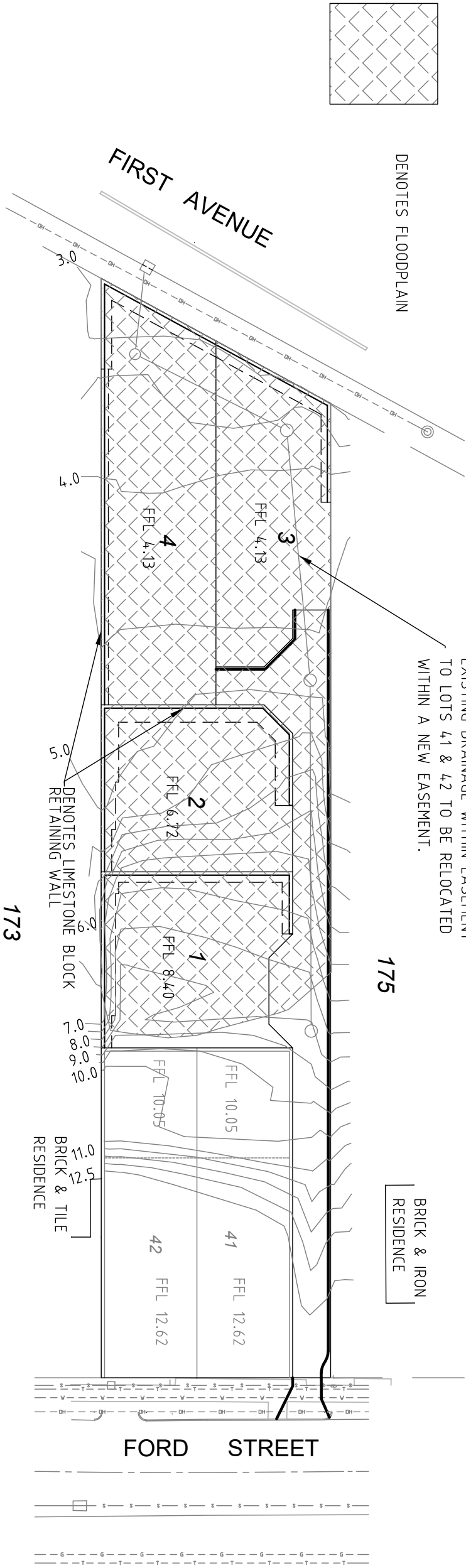
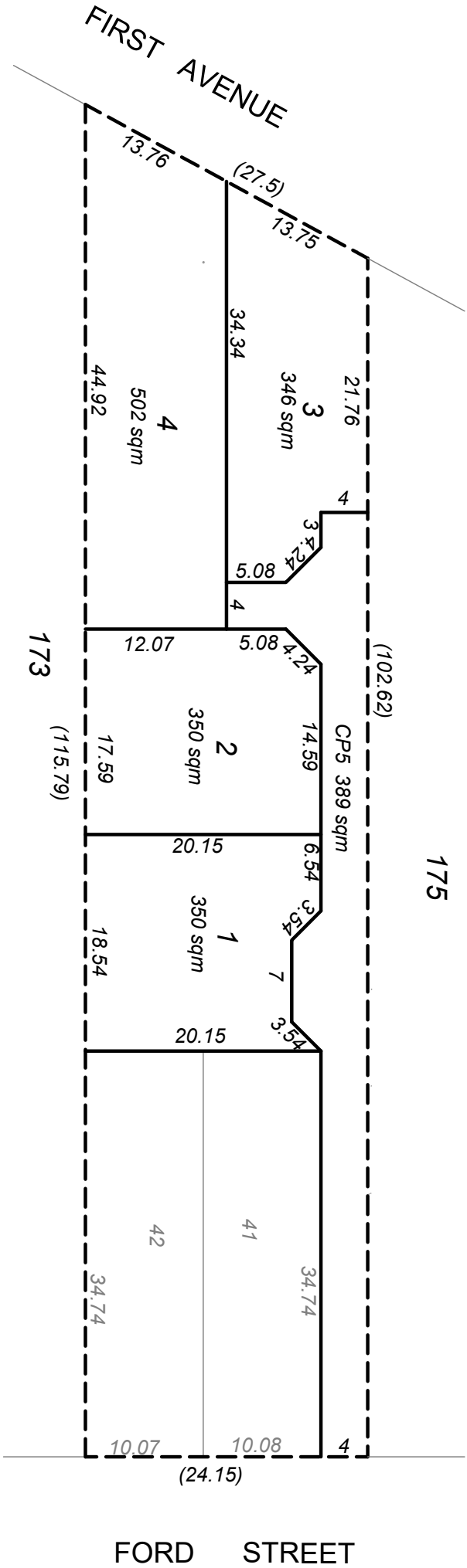
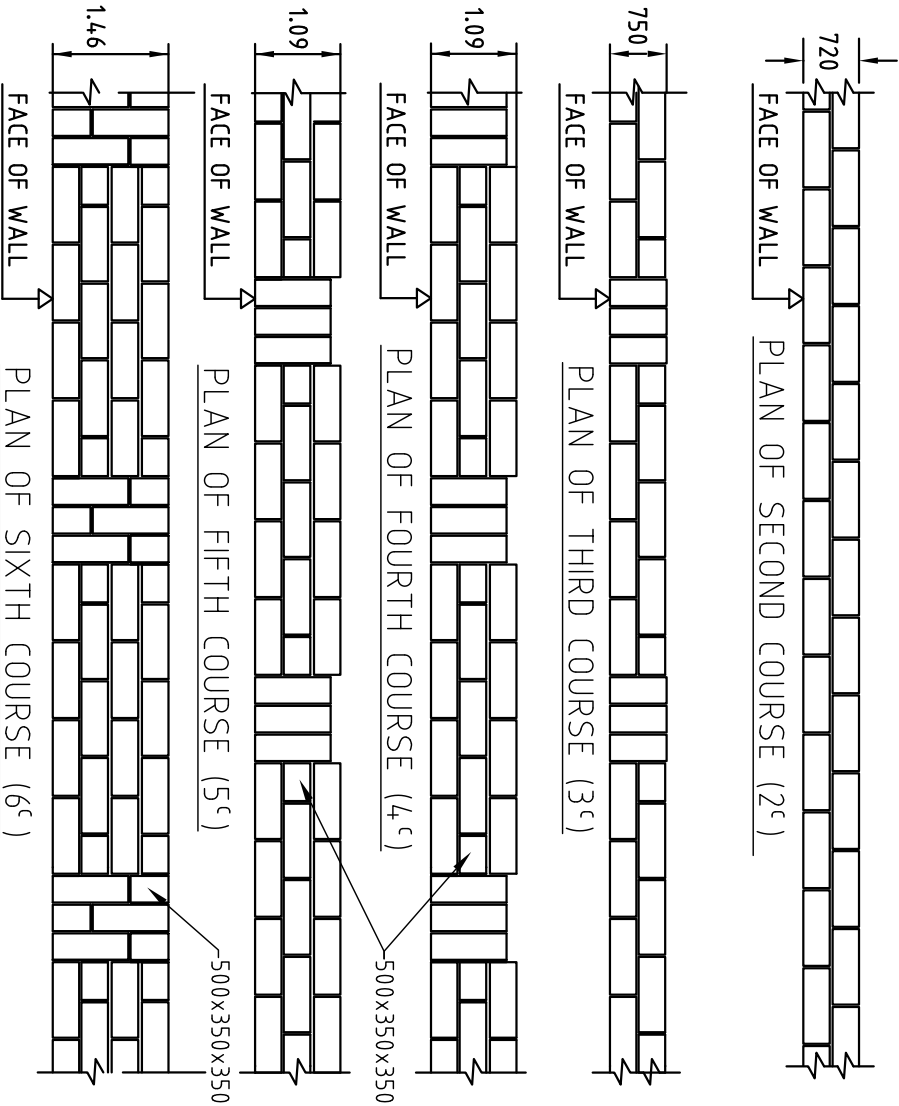
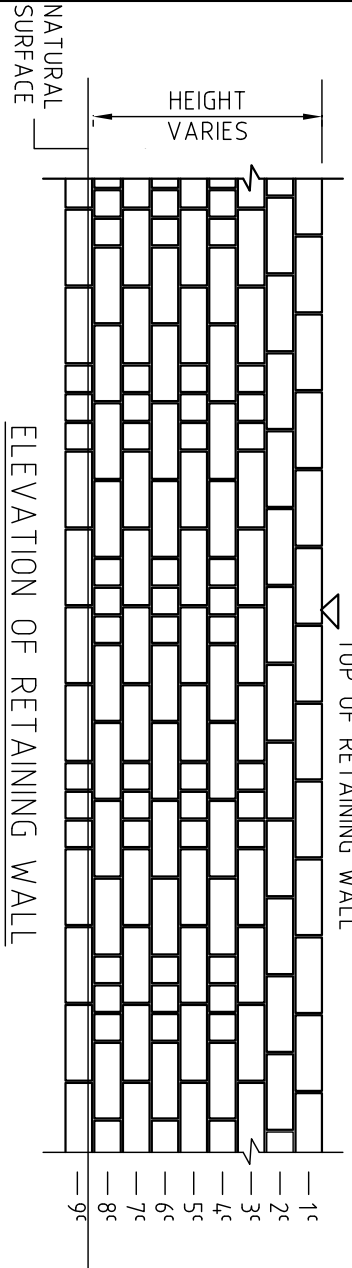
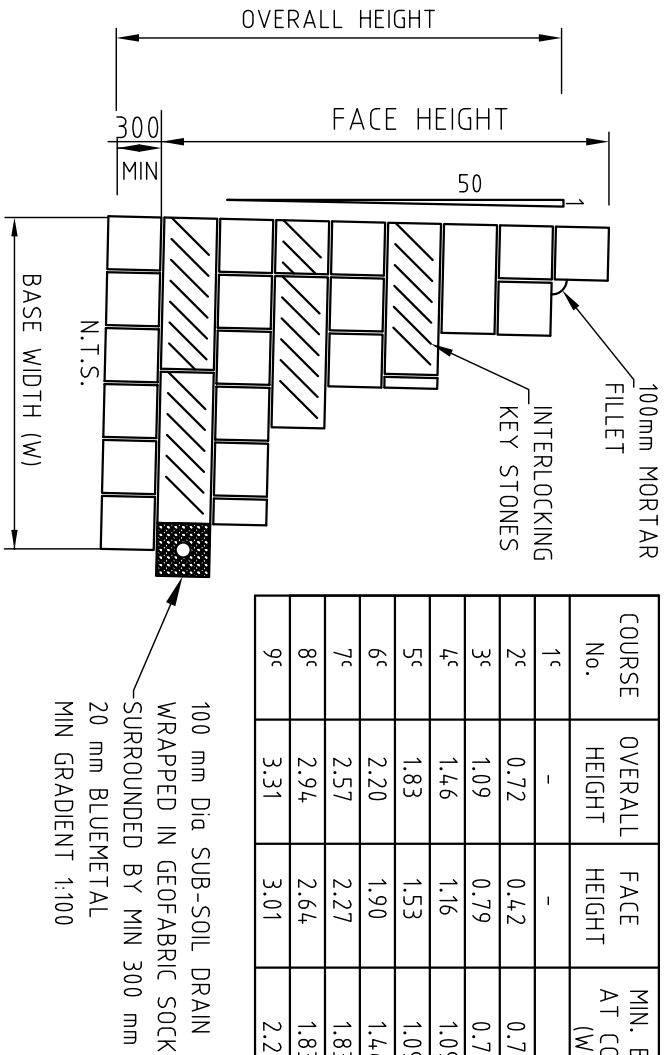




- LEGEND
- NEW KERB
 - WATER
 - SEWER
 - STORMWATER
 - COMMUNICATIONS
 - GAS
 - UNDERGROUND POWER
 - OVERHEAD POWER

ALAN MCLEAN ENGINEERING PTY LTD		DESIGNED DRAWN CHECKED DATE		A.J.MCLEAN A.J.MCLEAN NOV 2023	
67 ARLUNYA AVENUE, NELMONT WA 6104		SCALE: 1:500		DATUM: A.H.D.	
MOB 0419925752		amcp@inet.net.au		A.B.N. 49 084 859 727	
CLIENT PHOENIX CONTRACTING		DRAWING No : REVISION No:		ORIGINAL DRAWING SIZE A3	
LOT 174 FORD STREET, WOODBRIDGE		PROPOSED SURVEY STRATA SUBDIVISION			

COURSE No.	OVERALL HEIGHT	FACE HEIGHT	MIN. BASE WIDTH AT COURSE (W)
1 ^c	-	-	
2 ^c	0.72	0.42	0.72m
3 ^c	1.09	0.79	0.72m
4 ^c	1.46	1.16	1.09m
5 ^c	1.83	1.53	1.09m
6 ^c	2.20	1.90	1.46m
7 ^c	2.57	2.27	1.83m
8 ^c	2.94	2.64	1.83m
9 ^c	3.31	3.01	2.25m

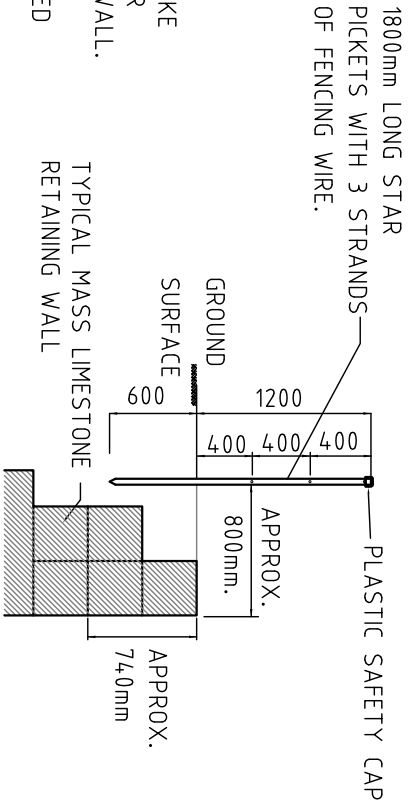


NOTES:

- WHERE PROPOSED RETAINING WALL MEETS FUTURE, WALL TO BE EXTENDED 2m PAST LOT BOUNDARY AT THE TOP OF WALL TAPERING DOWN TO BASE OF WALL.
- WALLS ARE DESIGNED TO TAKE INTO ACCOUNT THE LOADINGS OF A SINGLE STORY RESIDENCE, WITH A 1.0m SETBACK FROM THE BOUNDARY LINE. INDEPENDENT ENGINEERING ADVICE SHALL BE SOUGHT FOR A DOUBLE STORY RESIDENCE.
- SCREEN FENCES INSTALLED ONTO RETAINING WALLS SHALL BE DESIGNED FOR STABILITY INDEPENDANT OF THE RETAINING WALL IF RETAINING WALL IS LESS THAN 1.10m IN HEIGHT.
- TEMPORARY SAFETY FENCING TO BE 1800mm. LONG STAR PICKETS DRIVEN IN 600mm. WITH THREE STRANDS OF 3.15mm. (10 GAUGE) PLAIN FENCING WIRE.
- SAFETY FENCE STAR PICKETS TO BE INSTALLED AT MAXIMUM SEPARATION OF 3.5m.
- SAFETY FENCING WIRE TO BE DRAWN HAND TIGHT.
- SAFETY FENCE STAR PICKETS TO BE INSTALLED ON EITHER SIDE OF LOT BOUNDARIES. STAR PICKETS AT EITHER SIDE OF LOT BOUNDARY TO HAVE MAXIMUM SEPARATION OF 100mm. WHERE NOT SEPARATED BY A RETAINING WALL.
- SAFETY FENCING WIRE TO TERMINATE AT STAR PICKETS ON EITHER SIDE OF LOT BOUNDARIES. ADJACENT STAR PICKETS AT LOT BOUNDARIES TO BE JOINED AT THE TOP WITH A SINGLE STRAND OF FENCING WIRE.
- SAFETY FENCE STAR PICKETS AT CORNER AND AT FENCE TERMINATION POINTS ON LOT BOUNDARIES TO BE BRACED WITH STAR PICKET ON 45° ANGLE.
- BUILDING LICENCE REQUIRED PRIOR TO COMMENCING WORKS.
- NON-SACRIFICIAL ANTI-GRAFFITI COATING TO BE APPLIED TO WALLS EXPOSED TO ROAD/D.U.P.
- THE RETAINING WALLS HAVE BEEN DESIGNED AND CONSTRUCTED TO TAKE A 1.8m HIGH FENCE INSTALLED WITH POSTS AT A SPACING NO GREATER THAN 2.5m AND EMBEDDED TO A DEPTH OF AT LEAST 600mm IN THE WALL. IT IS INTENDED THAT FENCES SHOULD BE INSTALLED BY A REPUTABLE BUILDING OR FENCING CONTRACTOR WHOSE DESIGNS HAVE BEEN CERTIFIED BY A STRUCTURAL ENGINEER.
- IF A SWIMMING POOL IS TO BE CONSTRUCTED IN ANY PROXIMITY TO THE WALLS IT IS ADVISABLE THAT INDEPENDENT ADVICE FROM A CERTIFIED STRUCTURAL ENGINEER BE OBTAINED.
- WALLS SHALL BE CONSTRUCTED FROM 1000 LONG x 350 x 350 RECONSTITUTED LIMESTONE BLOCKS WITH A MASS PER UNIT VOLUME OF 1800 Kg/cum TO BE SECURELY MORTARED TOGETHER WITH ALL VOIDS FILLED.
- INTERLOCKING HORIZONTAL AND VERTICAL KEYSTONES SHALL BE PLACED UNIFORMLY THROUGHOUT THE WALL TO MINIMUM SPACING SHOWN ON THE DRAWING.
- MORTAR MIX SHALL BE 1 CEMENT, 1 LIME, 6 SAND.
- GROUND BELOW WALL SHALL BE A MINIMUM OF 300mm OF CLEAN GRANULAR SAND COMPACTED TO A MINIMUM OF 8 BLOWS PER 300mm OR 95% MAXIMUM DRY DENSITY.
- GROUND IN FRONT OF WALL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PRIOR TO BACKFILLING BEHIND WALL WITH CLEAN, FREE DRAINING SAND.
- SAND BACKFILL TO BE SPREAD IN 300mm LAYERS AND COMPACTED TO A MINIMUM OF 8 BLOWS PER 300mm WHEN TESTED WITH A STANDARD FALLING WEIGHT PENETROMETER. DO NOT BACKFILL UNTIL 7 DAYS AFTER THE LAST BLOCK HAS BEEN LAID. USE ONLY LIGHT COMPACTION EQUIPMENT.

DESIGN ASSUMPTIONS

- ASSUMED ANGLE OF REPOSE 35°
- RECONSTITUTED LIMESTONE DENSITY 1.8t/ħ
- SOIL DENSITY 1.7t/m³
- ASSUMED 3KPa LIVE LOAD TO TOP OF WALL
- HEIGHTS ARE BASED ON A 350mm HIGH BLOCK WITH 20mm MORTAR COURSE.



SAFETY FENCING TO BE INSTALLED AS SHOWN FOR ALL RETAINING WALLS THAT ARE 1.0m IN HEIGHT OR OVER.

WAPC 146523

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Mob 041 992 5752 amep@iinet.net.au ABN 49 084 859 727

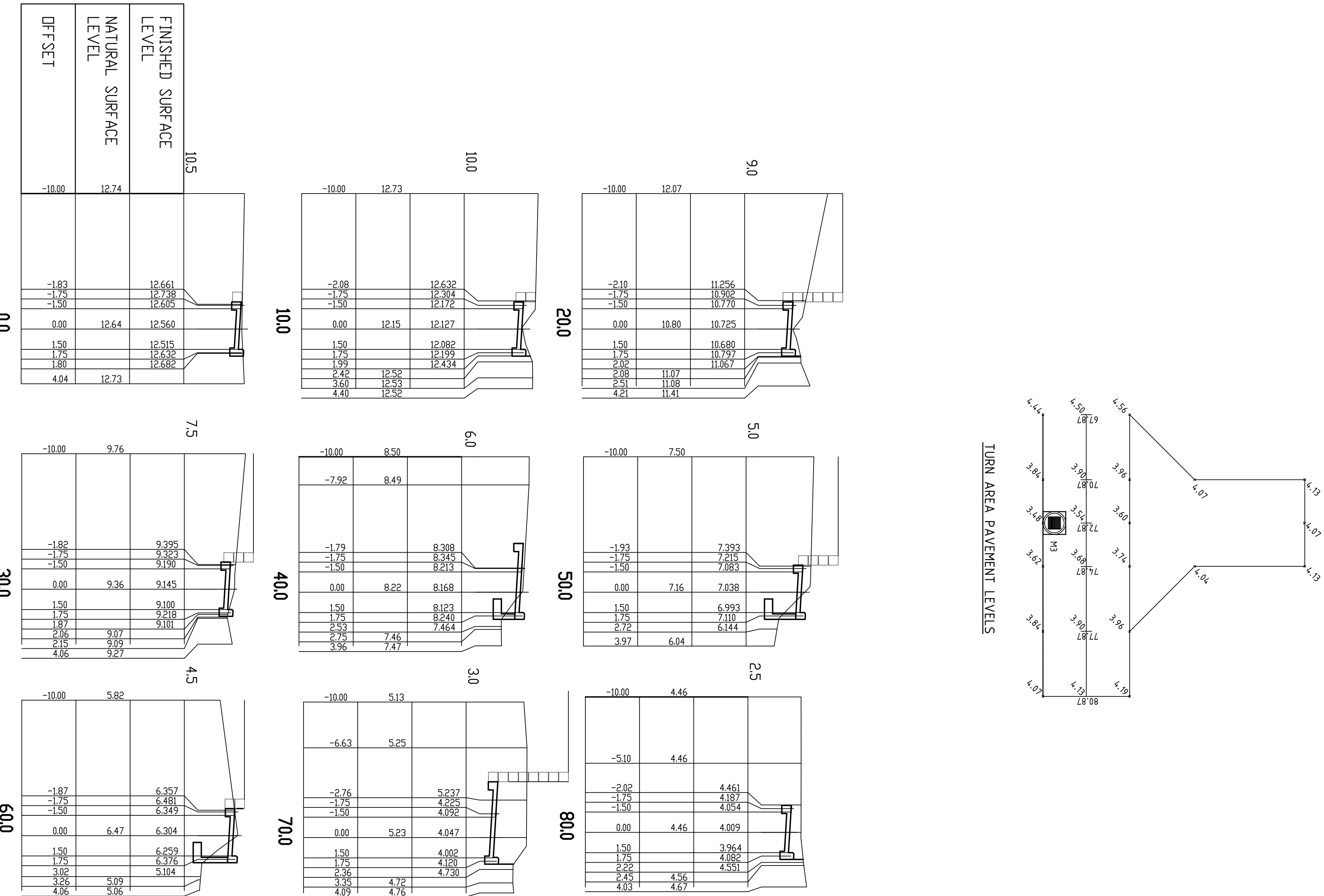
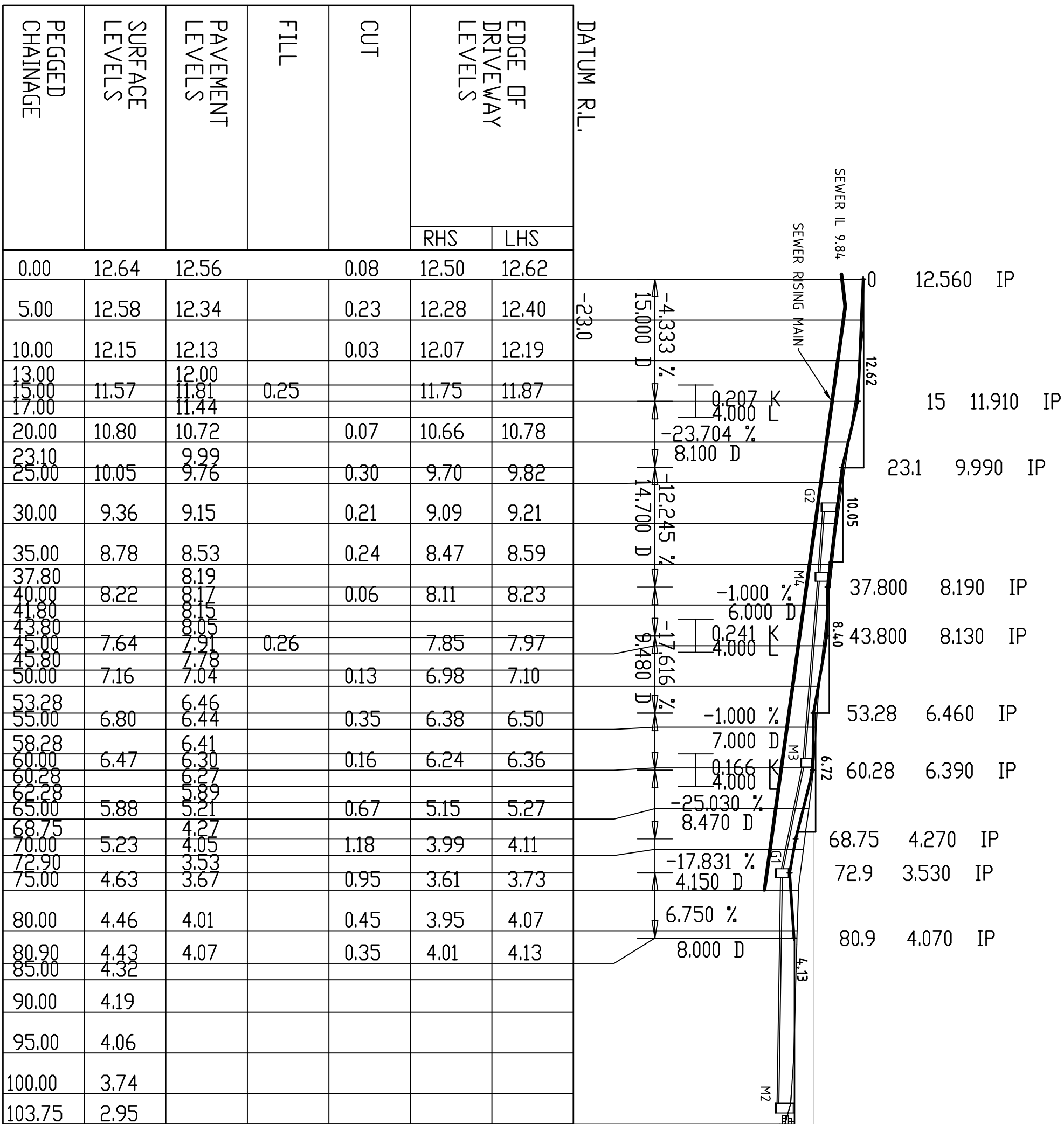
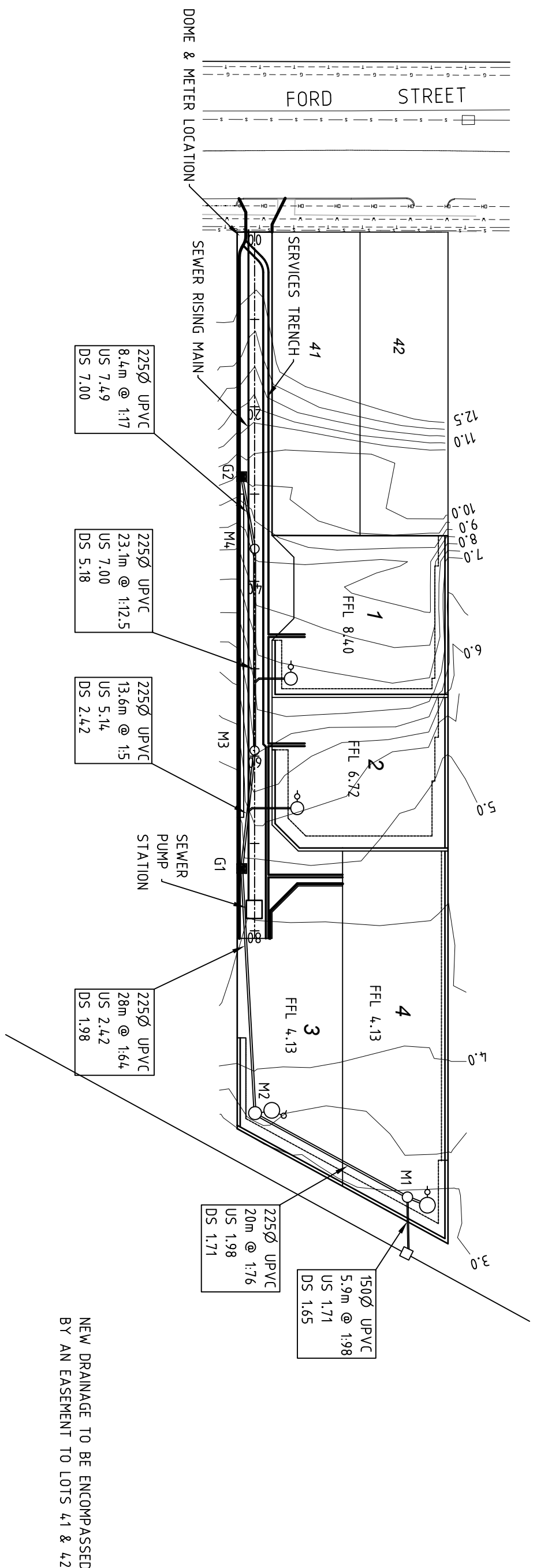
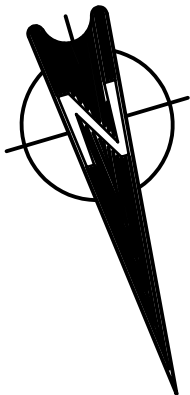
DESIGNED MJB PAYNE
DRAWN A.J.MCLEAN
CHECKED
DATE APRIL 2020

SCALE:
1:100
DATUM:

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APPROVED
DRAWING No : C-22-6-2
AMENDMENT No:
ORIGINAL DRAWING SIZE A3
DATE

LOT 174 FORD STREET, WOODBRIDGE
RETAINING WALL DETAILS



ALAN McLEAN ENGINEERING PTY LTD
67 ARLUNYA AVENUE, BELMONT WA 6104
A.B.N. 49 084 859 727
amelp@inet.net.au

DESIGNED
A.J.McLEAN
NOV 2023

RECOMMENDED
A.J.McLEAN
NOV 2023

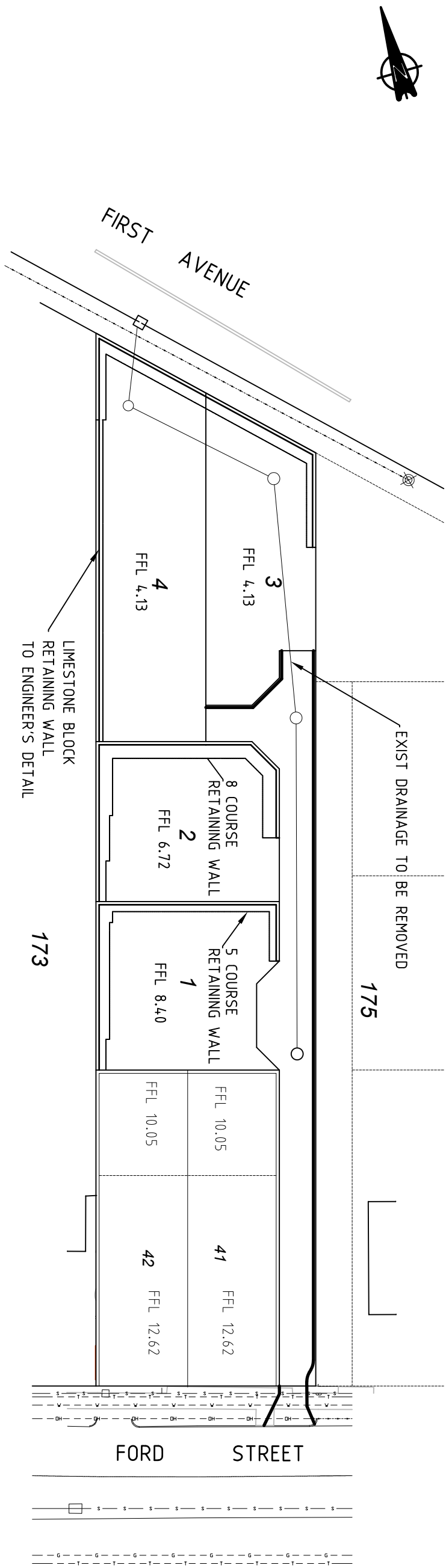
APPROVED

SCALE
AT A1

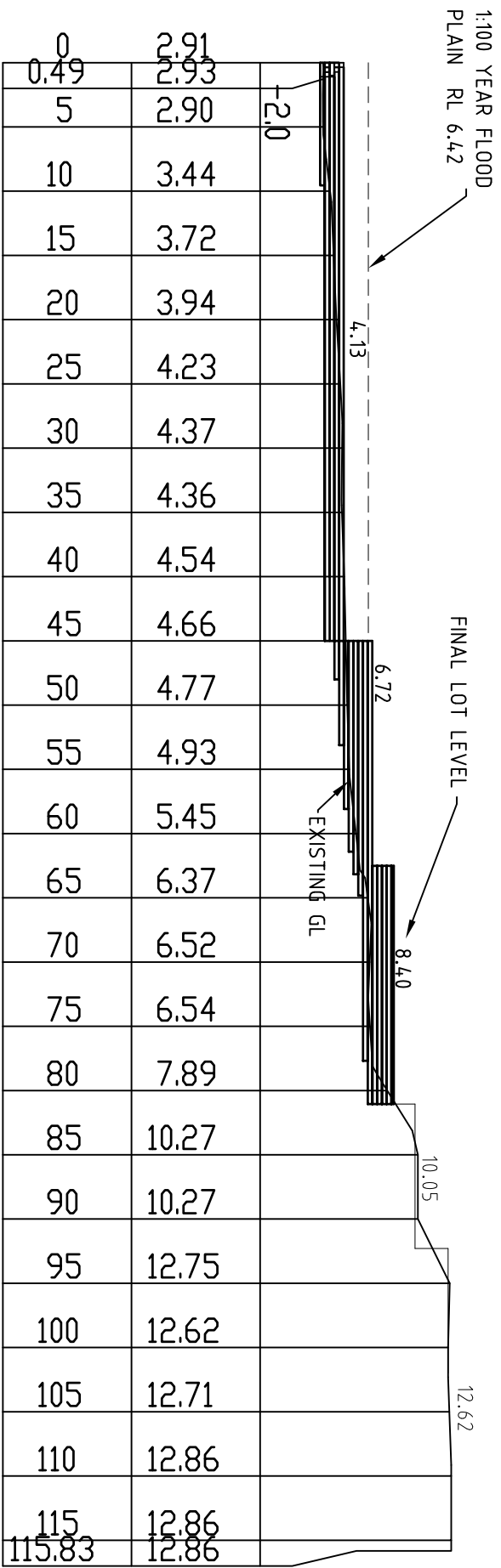
VARIABLES
A.H.D.

LOT 174 FORD STREET, WOODBRIDGE
DRIVEWAY PLAN, PROFILE AND CROSS-SECTIONS

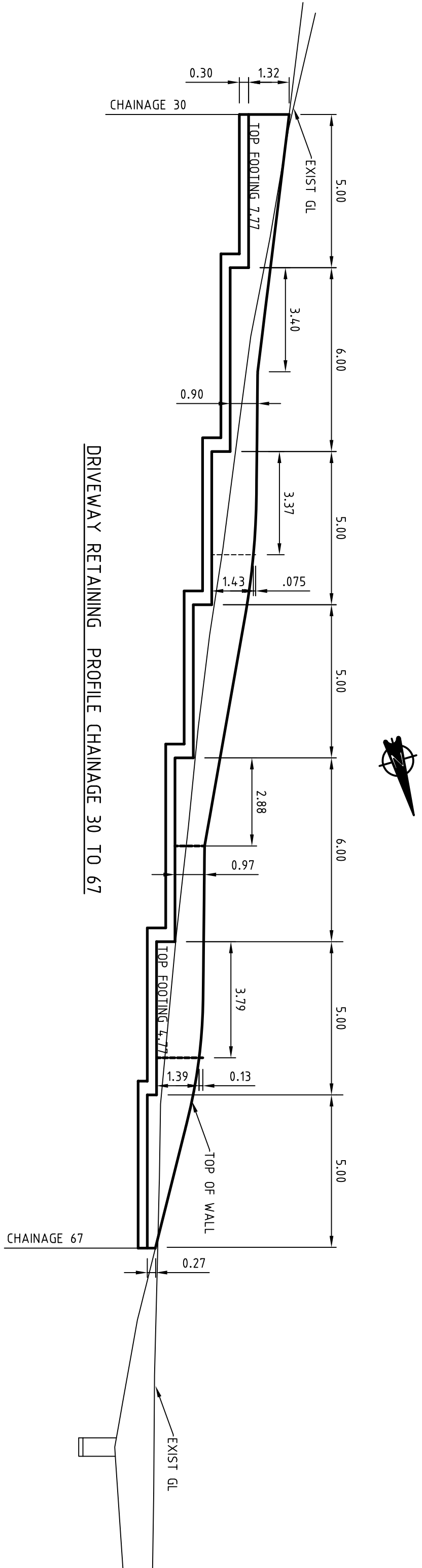
DRAWING NO.
C-22-6-3



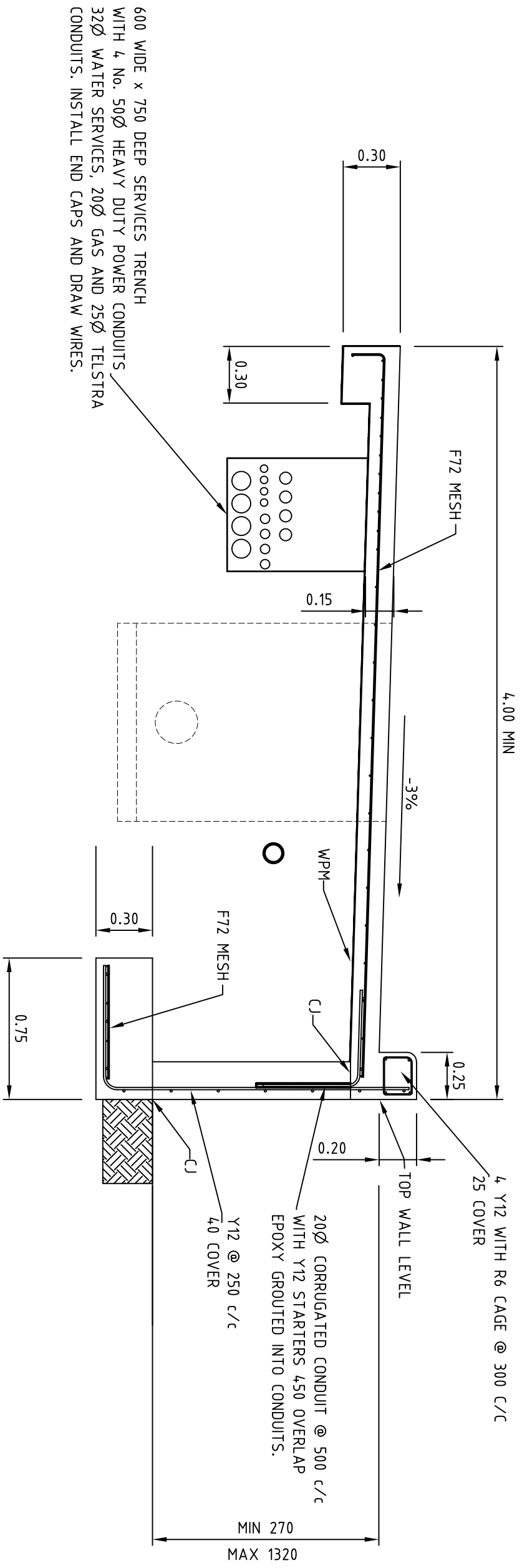
DATUM R.L.	SURFACE LEVELS	PEGGED CHAINAGE
0	2.91	0.49
5	2.90	5
10	3.44	10
15	3.72	15
20	3.94	20
25	4.23	25
30	4.37	30
35	4.36	35
40	4.54	40
45	4.66	45
50	4.77	50
55	4.93	55
60	5.45	60
65	6.37	65
70	6.52	70
75	6.54	75
80	7.89	80
85	10.27	85
90	10.27	90
95	12.75	95
100	12.62	100
105	12.71	105
110	12.86	110
115	12.86	115
115.83	12.86	115.83



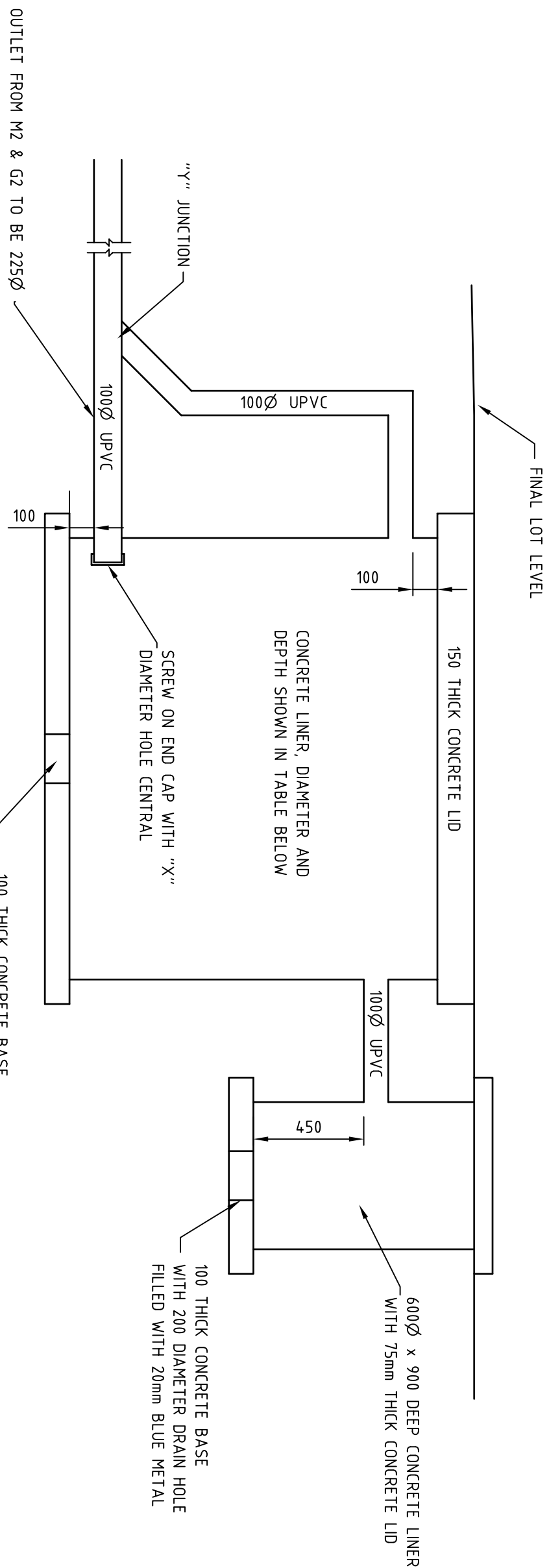
WEST WALL PROFILE



DRIVEWAY RETAINING PROFILE CHAINAGE 30 TO 67



DRIVEWAY SECTION CHAINAGE 30 TO 67



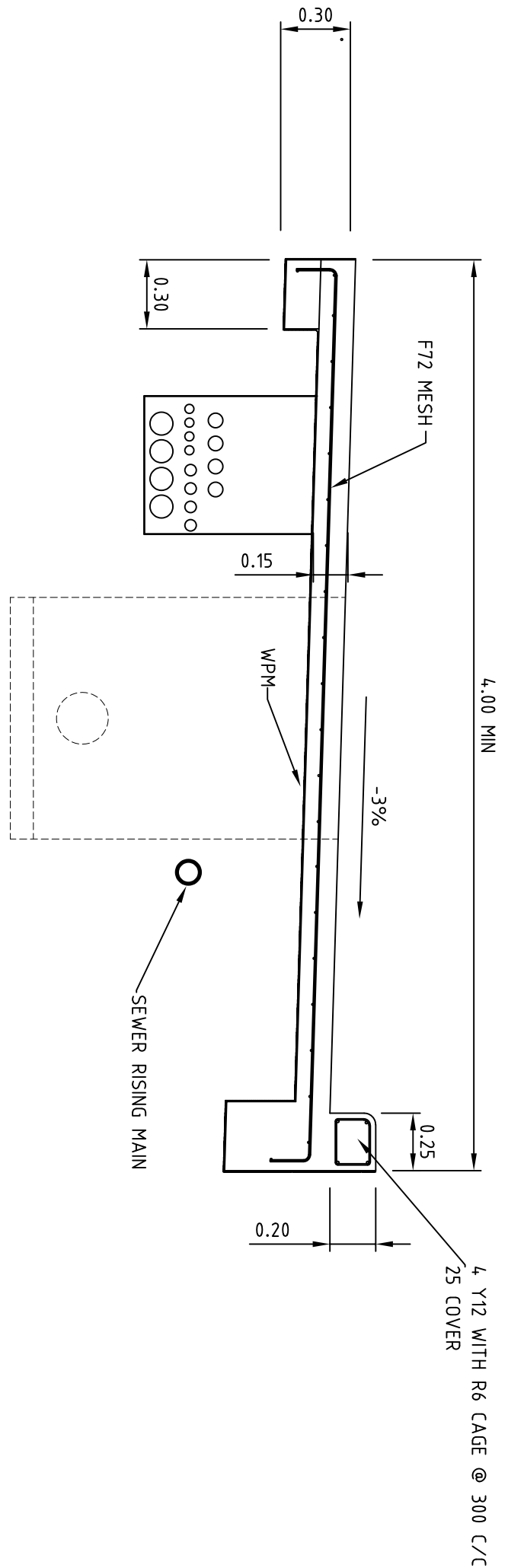
STORAGE TANK CONNECTION DETAIL

STORAGE TANK CONNECTION DETAIL

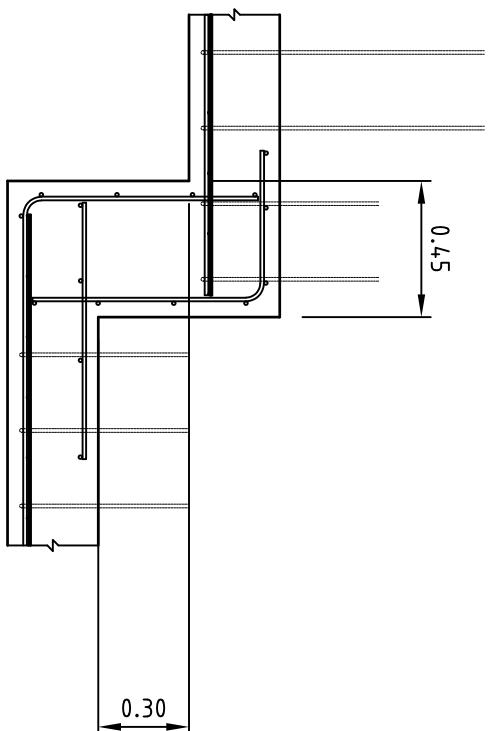
CONCRETE LINER SIZES
LOT 1 1500x21 OUTLET ORIFICE DIAMETER = 22mm
LOT 2 1500x21 OUTLET ORIFICE DIAMETER = 22mm
LOT 3 1500x21 OUTLET ORIFICE DIAMETER = 22mm
LOT 4 1800x21 OUTLET ORIFICE DIAMETER = 26mm
M1 1200x21 SILET PIT
M2 1500x21 OUTLET ORIFICE DIAMETER = 55mm
M3 1050x15 SILET PIT
M4 1050x15
G2 1050x18 OUTLET ORIFICE DIAMETER = 13mm

DATUM R.L.	SURFACE LEVELS	PEGGED CHAINAGE
-20	2.91	0
	2.72	5
	2.85	10
	2.90	15
	2.89	20
	2.95	25
	2.90	27.50

NORTH RETAINING WALL PROFILE



DRIVEWAY SECTION 00-30 & 67-END



FOOTING STEP

ALAN McLEAN ENGINEERING PTY LTD
67 ARLUNYA AVENUE, BELMONT WA 6104
MOB 041 992 5752

DESIGNED	RECOMMENDED	APPROVED
A.J.McLEAN		
OCT 2023		

SCALE	VERT 1:500	HORZ 1:500
AT A1		

DATE
OCT 2023
AMENDMENTS
AT A1
A.H.D.

LOT 174 FORD STREET, WOODBRIDGE
DETAILS

DRAWING NO.
C-22-6-4