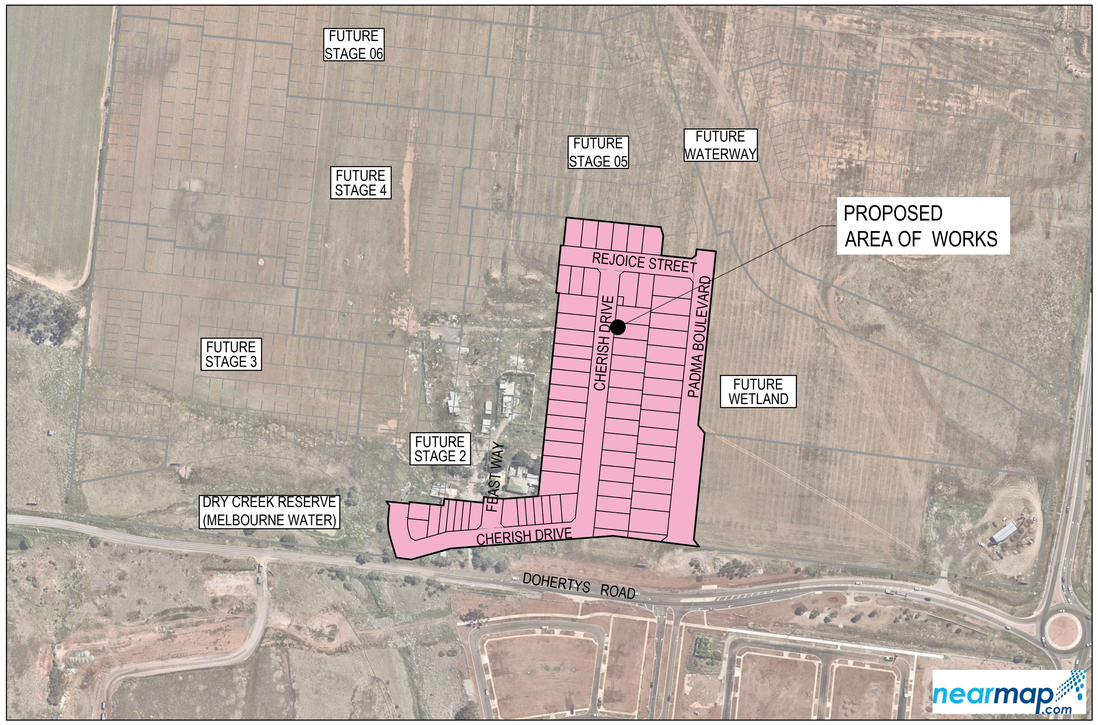
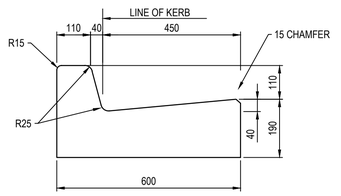
Marigold Stage 1



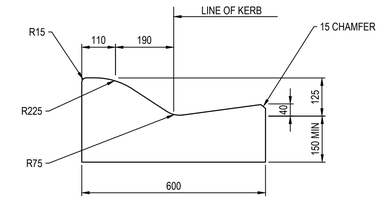
Drawing Index

TABLE 6: TEMPORARY BENCH MARK TABLE

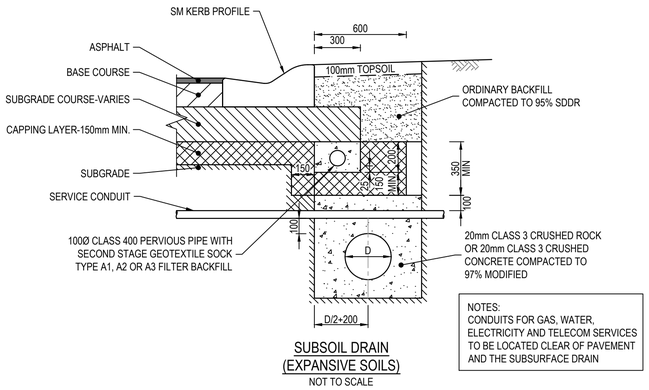
NAME	EASTING (M)	NORTHING (M)	REDUCED LEVEL (M)	DESCRIPTION
T.B.M 1	296268.96	5812551.29	50.83	STAR PICKET
T.B.M 2	297060.94	5812470.05	50.25	STAR PICKET
T.B.M 3	296997.71	5811695.27	46.67	NAIL IN ROUNDABOUT
T.B.M 4	296178.66	5811787.24	43.74	STAR PICKET



600 B2 KERB DETAIL
SCALE 1:10
EDCM

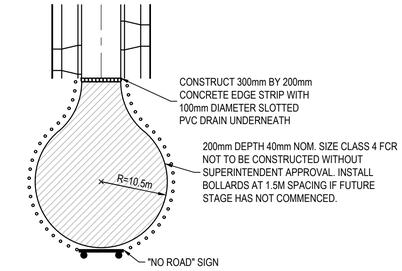


SM2 KERB DETAIL
SCALE 1:10
EDCM

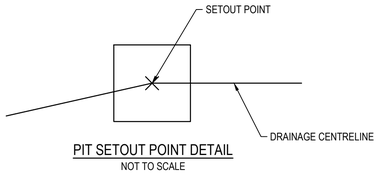


SUBSOIL DRAIN (EXPANSIVE SOILS)
NOT TO SCALE

NOTES:
CONDUITS FOR GAS, WATER, ELECTRICITY AND TELECOM SERVICES TO BE LOCATED CLEAR OF PAVEMENT AND THE SUBSURFACE DRAIN



TEMPORARY TURN AREA DETAIL
NOT TO SCALE



PIT SETOUT POINT DETAIL
NOT TO SCALE

GENERAL NOTES (WYNDHAM CITY COUNCIL)

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDCM ADDENDUM STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
2. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
3. THE CONTRACTOR SHALL:
   - 3.1. COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
   - 3.2. NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF THEIR INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
   - 3.3. ENSURE THAT THE MINE MANAGER OR THEIR DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
4. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVENT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
6. TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER.
7. ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
8. CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS E,G,H,R,T,&W ABOVE CONDUIT LOCATIONS AS SPECIFIED. RESPECTIVE LETTERS TO BE INDICATED ABOVE RELEVANT CONDUITS AS PER STANDARD DRAWING EDCM 303. CONDUITS TO BE PLACED MINIMUM OF 5m FROM BOUNDARIES WHERE POSSIBLE AND TO THE SATISFACTION OF THE SUPERINTENDENT IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.
9. SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL AS PER STANDARD DRAWINGS EDCM 202 (EXPANSIVE SUBGRADE).
10. ALL LINEMARKING, SIGNING AND TRAFFIC CONTROL DEVICES TO BE IN ACCORDANCE WITH VICROADS REQUIREMENTS WITH LATERAL WORKS AND ARROWSBEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGAOUR OR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL (VICROADS SPECIFICATION SEE SECTION 710&722).
11. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
12. 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 ENGINEER.
13. ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES SHALL BE SURFACED WITH A 100mm MINIMUM TO 200mm MAXIMUM LAYER OF TOPSOIL AS SPECIFIED. ALL FILLING ON ALLOTMENTS TO BE COMPACTED TO 95% STANDARD COMPACTION IN 150mm LAYERS AND AS PER THE SPECIFICATION. WHERE THERE IS FILL IN EXCESS OF 300mm IN DEPTH, THE CONTRACTOR IS TO CARRY OUT SOIL TESTS TO THE REQUIREMENTS OF APPENDIX B AS SPECIFIED IN THE AUSTRALIAN STANDARD AS 3798 TO SHOW THAT LEVEL 1 COMPACTION STANDARDS HAVE BEEN ACHIEVED. TEST RESULTS AND LOCATION OF TESTS FOR EACH ALLOTMENT SHALL BE APPROVED BY THE CONTRACTOR AND FORWARDED TO COUNCIL.
14. FILL MATERIAL USED UNDER PAVEMENTS AND FOOTPATHS MUST BE AN APPROVED MATERIAL TO THE STANDARD OF WYNDHAM CITY COUNCIL. ALL SUCH MATERIAL IS TO BE COMPACTED AS PER THE REQUIREMENTS OF THE SPECIFICATION APPROVED WITH THESE DRAWINGS PRIOR TO FORMWORK BEING PLACED. COMPACTION TESTS TO BE COMPLETED AND PROVIDED TO SUPERINTENDENT.
15. FILL & CUT BATTERS ARE NOT TO EXCEED 1 in 6 SLOPE, UNLESS SHOWN OTHERWISE.
16. 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
17. ALL DRAINAGE PIPES ARE CLASS 2 RCP PIPES, RUBBER RING JOINTED UNLESS OTHERWISE SPECIFIED.
18. DRAINAGE PITS SHALL BE CAST MONOLITHICALLY.
19. BACKFILLING OF TRENCHES WHERE DRAINAGE AND SEWERAGE ARE IN CLOSE PROXIMITY ARE TO BE BACKFILLED AS PER WYNDHAM CITY COUNCIL STANDARD DRAWING SD6-10.
20. ALL SERVICING TRENCHES UNDER ROADS, FOOTPATHS, DRIVEWAYS, PARKING BAYS ETC. ARE TO BE BACKFILLED WITH CLASS 2 F.C.R.
21. ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 5.00m FROM THE SIDE BOUNDARY.
22. INVERT OF PROPERTY INLETS TO BE 500mm MINIMUM BELOW FINISHED SURFACE UNLESS NOTED OTHERWISE.
23. VEHICLE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS EDCM 501 TO 503. DRIVEWAYS TO BE LOCATED MIN 0.75m FROM BUILDING LINE UNLESS SPECIFIED OTHERWISE AND CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES. DOUBLE DRIVEWAY WIDTH TO BE 7.0m AT FRONT OF PATH/BUILDING LINE.
24. ADDITIONAL AND OVER-EXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATION.
25. FOOTPATH CROSSFALL TO BE 1:50
26. ALL FOOTPATHS AND SHARED PEDESTRIAN/BICYCLE PATHS ARE TO BE CONSTRUCTED AS PER CITY OF WYNDHAM SPECIFICATIONS AND MPA STANDARD DRAWINGS EDCM 401 TO 403.
27. ALL EXOTIC (NON NATIVE) TREES AND SHRUBS, INCLUDING DEAD TREES, NOT SHOWN ON THE DRAWINGS BUT LOCATED WITHIN THE WORKS ARE TO BE REMOVED AND DISPOSED OFFSITE.
28. INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER (BRRPM) ON ROAD CENTRELINE AND "GROUND BALL" MARKER POST TO INDICATE LOCATION OF FIREPLUG.
29. THE CONTRACTOR IS TO ENSURE THAT THEIR CONSTRUCTION PROCEDURES AND STANDARDS CONTROL THE VOLUME AND LOCATION FOR COLLECTION OF SEDIMENT RUNOFF ACCORDING TO CURRENT EPA - ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES.
30. UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED UP, GRADED AND ALL RUBBISH REMOVED. THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
31. EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL ENGINEER.
32. THE LOWER SUB-BASE MATERIAL SHALL WILL BE N.D.C.R. FOR PAVEMENT MAKE UPS AS PER THE STANDARD DRAWINGS OF WYNDHAM CITY COUNCIL.
33. TOTAL LENGTH OF ROADS CONSTRUCTED IS 799m
    TOTAL LENGTH OF DRAINS CONSTRUCTED IS 1486m

GAS - STANDARD NOTES

1. GAS MAINS, FITTINGS AND MARKER TAPE ARE TO BE SUPPLIED BY THE GAS AUTHORITY.
2. EXCAVATION, SUPPLY AND PLACEMENT OF REQUIRED BACKFILL TO BE UNDERTAKEN BY OTHERS.
3. NOTIFICATION MUST BE GIVEN TO THE GAS AUTHORITY TWO WEEKS PRIOR TO THE COMMENCEMENT OF EXCAVATION WORKS.

REINFORCED CONCRETE PIPE

1. ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-2007, LOADS ON BURIED PIPES.
2. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPLACED & RELAID AT THE CONTRACTOR'S COST.

WARNING
SAFETY MEASURES REQUIRED
Please note there are risks attached to the construction of this project, and any ongoing maintenance of structures. Consider the safety of all. For potential risks, consequences and controls refer to Safety In Design Risk Register
SID P4.E6. 2360E-01-85
ASSESS THE RISK - STAY SAFE

WARNING
BEWARE OF UNDERGROUND SERVICES
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Locate all underground services before commencement of works
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AS CONSTRUCTED

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 25 50 100
Scale 1:2500
SCALE AS SHOWN AT A1

N

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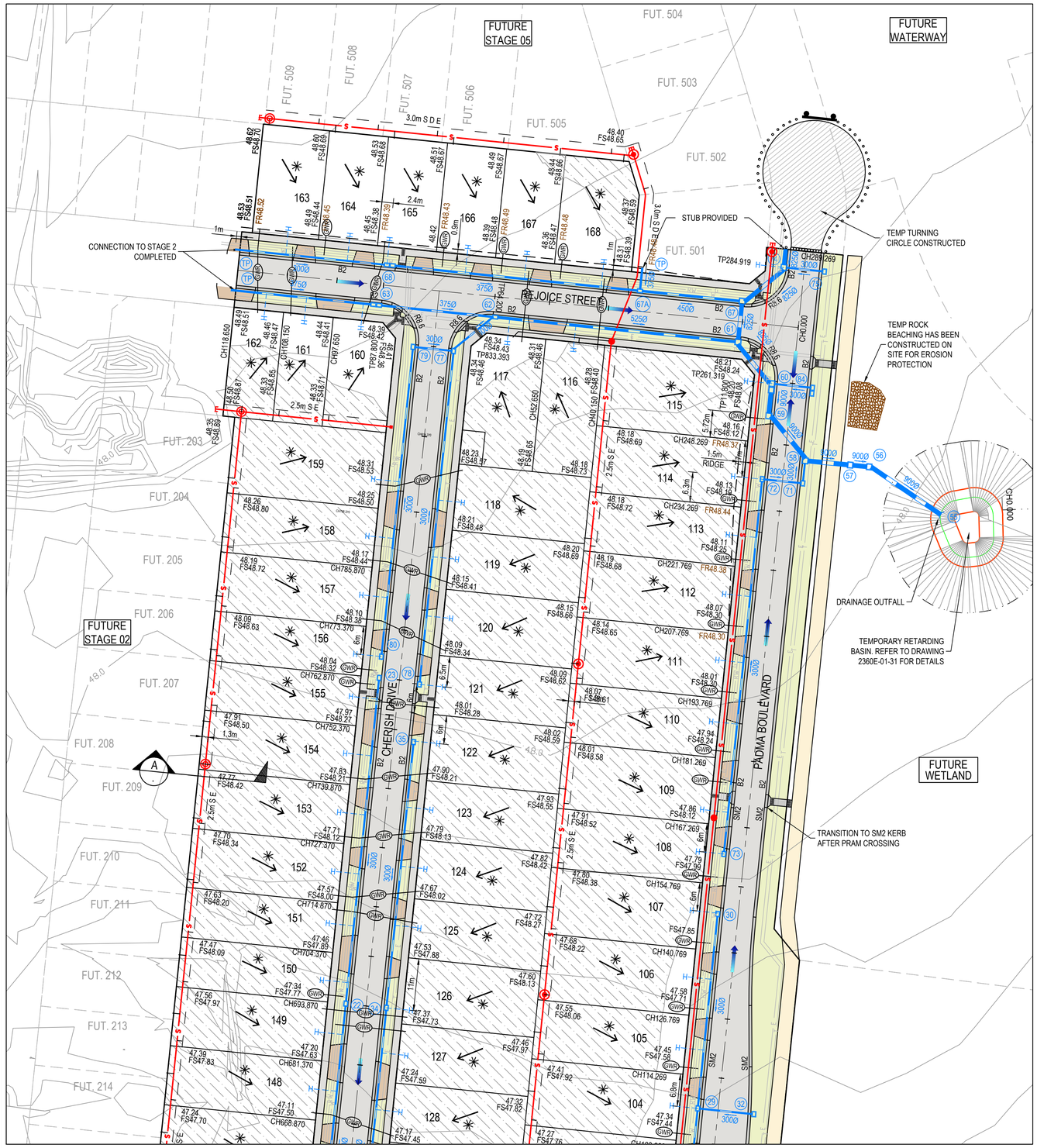
GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Cover Plan

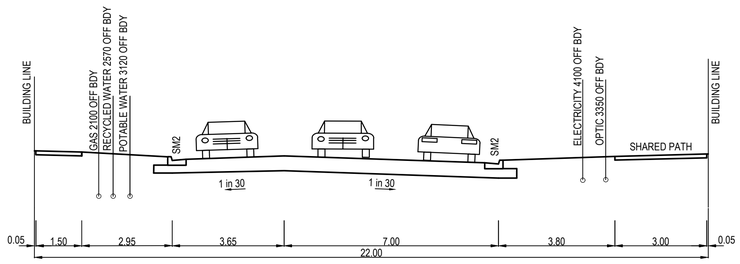
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-01	01 of 33	1

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-01.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:31:10 PM

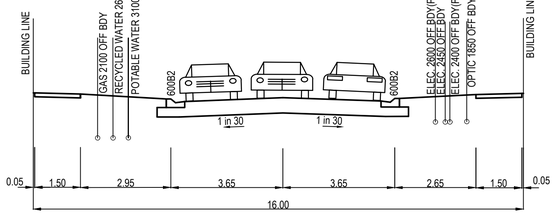


ROAD LAYOUT TABLE								
ROAD NAME	RESERVE WIDTH	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
		LIP TO LIP	INV TO INV	BACK TO BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
PADMA BOULEVARD (LOTS 101-106)	22.0	9.75	10.65	10.95	SM2	SM2	4.20	6.55
PADMA BOULEVARD (LOTS 107-115)	16.0	6.40	7.30	7.60	600B2	600B2	4.35	4.05
REJOICE STREET (LOTS 163-168)	16.0	6.40	7.30	7.60	600B2	600B2	4.35	4.05
CHERISH DRIVE (LOTS 117-131)	16.0	6.40	7.30	7.60	600B2	600B2	4.35	4.05
CHERISH DRIVE (LOTS 132-133)	14.0	6.40	7.30	7.60	600B2	600B2	2.05	4.35
CHERISH DRIVE (LOTS 134-146)	14.0	6.40	7.30	7.60	600B2	600B2	4.35	2.05
FEAST WAY	16.0	6.40	7.30	7.60	600B2	600B2	4.35	4.05

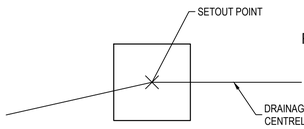
SERVICES OFFSET TABLE					
ROAD NAME	GAS	WATER	RECYCLED WATER	ELECTRICITY	OPTIC FIBRE
	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)
PADMA BOULEVARD (LOTS 101-106)	2.10 W	3.12 W	2.57 W	4.10 E	3.35 E
PADMA BOULEVARD (LOTS 107-115)	2.10 W	3.12 W	2.57 W	2.60 E	1.85 E
PADMA BOULEVARD (CH48.46-CH58.62)	1.90 W	2.92 W	2.37 W	2.60 E	1.85 E
REJOICE STREET (LOTS 163-168)	2.10 N	3.10 N	2.60 N	2.45 S	1.85 S
CHERISH DRIVE (LOTS 117-131)	2.10 W	3.10 W	2.60 W	2.45 E	1.85 E
CHERISH DRIVE (LOTS 132-133)	2.10 E	3.10 E	2.60 E	0.80 W	0.30 W
CHERISH DRIVE (LOTS 134-146)	2.10 N	3.10 N	2.60 N	0.80 S	0.30 S
FEAST WAY	2.10 W	3.10 W	2.60 W	2.40 E	1.85 E



22m ROAD RESERVE
PADMA BOULEVARD (LOTS 101-106)



16m ROAD RESERVE
PADMA BOULEVARD (LOTS 107-115), REJOICE STREET (LOTS 163-168), CHERISH DRIVE (LOTS 117-131) & FEAST WAY



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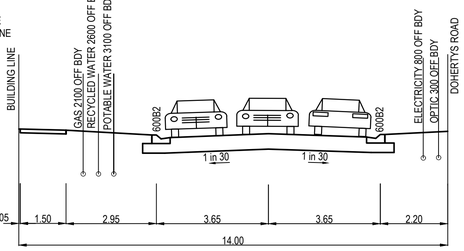
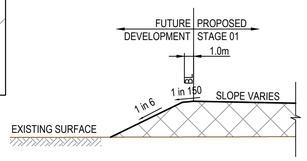


14m ROAD RESERVE
CHERISH DRIVE (LOTS 132-146)



TYPICAL SECTION A-A
NOT TO SCALE

LEGEND - LAYOUT PLAN
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
S T	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
E	ELECTRICITY (U.GROUND)
O/H	ELECTRICITY (O.HEAD)
G	GAS
T	TELSTRA
O	OPTIC FIBRE
W	WATER
RW	RECYCLE WATER
Ag	AG. DRAIN
GW	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
H	EXISTING HOUSE DRAIN
Ex E	EXISTING ELECTRICITY (UNDER GROUND)
O/H E	EXISTING ELECTRICITY OVERHEAD
Ex G	EXISTING GAS
Ex T	EXISTING TELSTRA
Ex O	EXISTING OPTIC FIBRE
Ex W	EXISTING WATER
Ex RW	EXISTING RECYCLED WATER
Ex.Ag	EXISTING AG. DRAIN
GWR	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
H	FUTURE HOUSE DRAIN
Fut E	FUTURE ELECTRICITY (UNDER GROUND)
Fut O/H E	FUTURE ELECTRICITY OVERHEAD
Fut G	FUTURE GAS
Fut T	FUTURE TELSTRA
Fut O	FUTURE OPTIC FIBRE
Fut W	FUTURE WATER
Fut RW	FUTURE RECYCLED WATER
Fut Ag	FUTURE AG. DRAIN
GWR	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
CH270.00	CHAINAGE
TW159.60	TOP OF RETAINING WALL LEVEL
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

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GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Layout Plan - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-02	02 of 33	3

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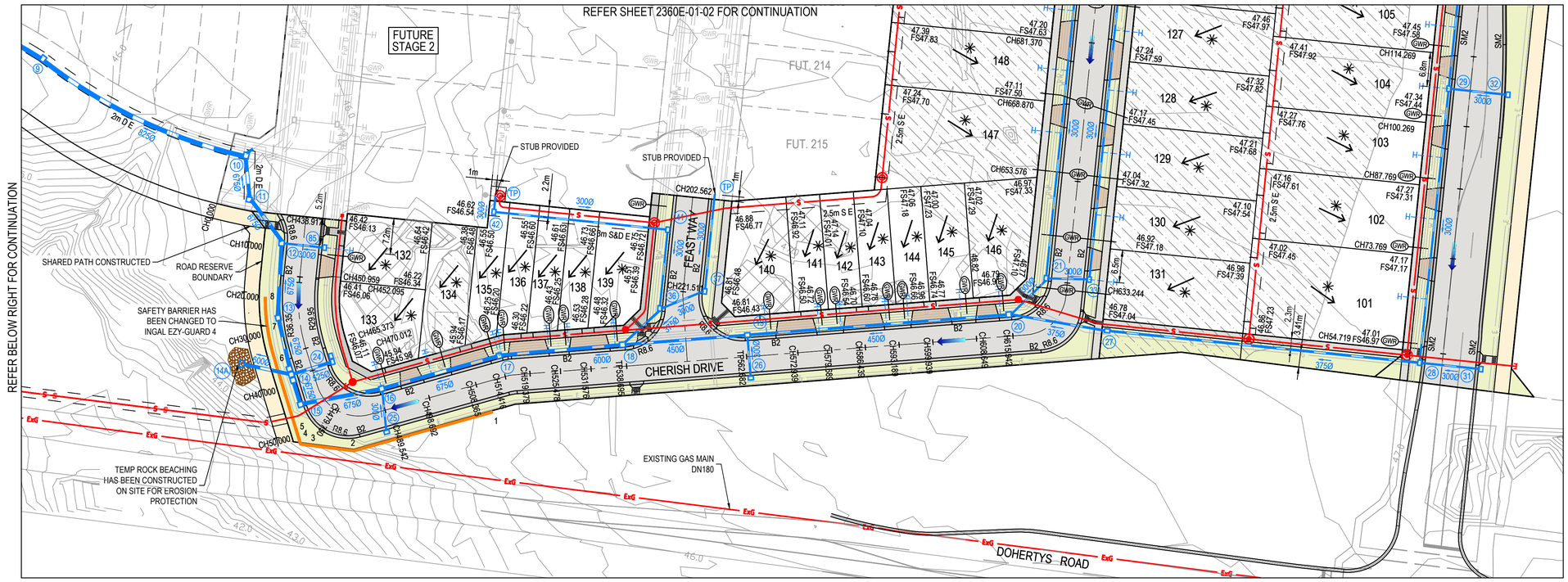

FOR RETAINING WALL DETAILS REFER TO DRAWING 2360E-01-200

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	MAIN DRAIN
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O	OPTIC FIBRE
W	WATER
RW	RECYCLE WATER
Ag	AG. DRAIN
SW	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
Ex E	EXISTING ELECTRICITY (UNDER GROUND)
Ex O/H E	EXISTING ELECTRICITY OVERHEAD

G	GAS
T	TELSTRA
O	OPTIC FIBRE
W	WATER
RW	RECYCLE WATER
Ag	AG. DRAIN
SW	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
Ex E	EXISTING ELECTRICITY (UNDER GROUND)
Ex O/H E	EXISTING ELECTRICITY OVERHEAD
Ex G	EXISTING GAS
Ex T	EXISTING TELSTRA
Ex O	EXISTING OPTIC FIBRE
Ex W	EXISTING WATER
Ex RW	EXISTING RECYCLED WATER
Ex Ag	EXISTING AG. DRAIN
SW	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN

	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
Fut E	FUTURE ELECTRICITY (UNDER GROUND)
Fut O/H E	FUTURE ELECTRICITY OVERHEAD
Fut G	FUTURE GAS
Fut T	FUTURE TELSTRA
Fut O	FUTURE OPTIC FIBRE
Fut W	FUTURE WATER
Fut RW	FUTURE RECYCLED WATER
Fut Ag	FUTURE AG. DRAIN
SW	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
CH270.00	CHAINAGE
TW159.60	TOP OF RETAINING WALL LEVEL
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP

	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

AS CONSTRUCTED PLANS
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AS CONSTRUCTED

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

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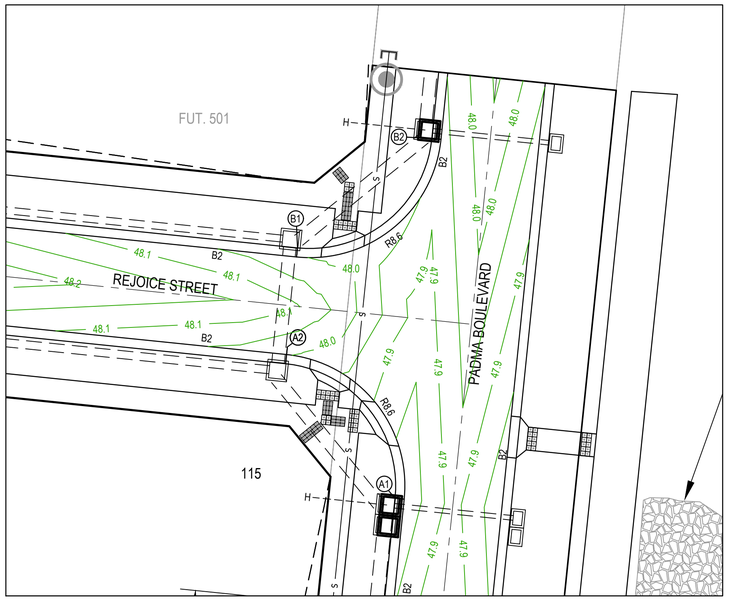
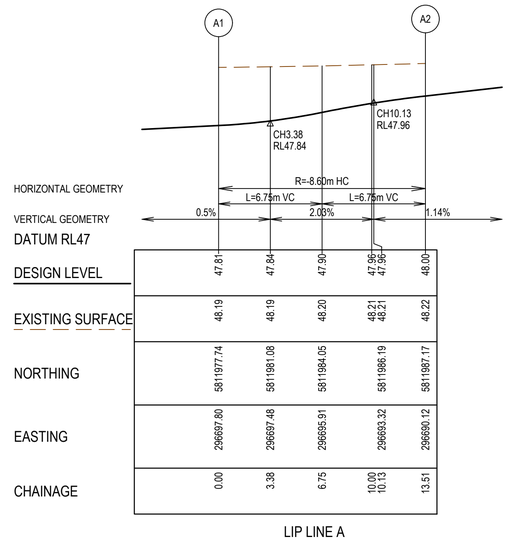
GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Layout Plan - 2

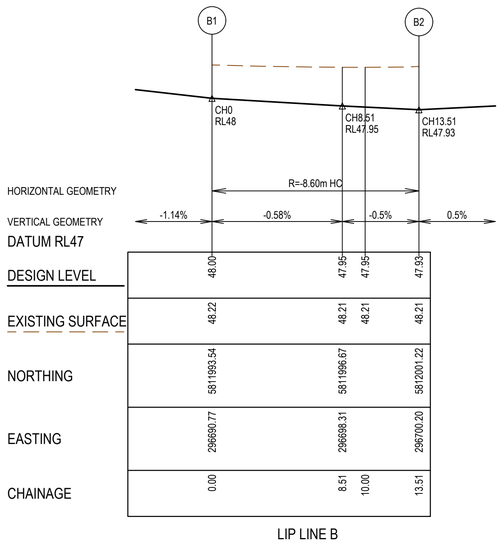
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-03	03 of 33	5

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-03.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:32:33 PM





LIP LINE A



LIP LINE B

lignment A

Point no	Easting	Northing	RL
A1	296697.795	5811977.743	47.812
A2	296690.116	5811987.175	48.004

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
A1 - A2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	47.897

Alignment B

Point no	Easting	Northing	RL
B1	296690.768	5811993.541	48.004
B2	296700.200	5812001.220	47.930

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
B1 - B2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	47.965

Alignment C

Point no	Easting	Northing	RL
C1	296637.989	5811992.513	48.246
C2	296628.557	5811984.834	48.209

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
C1 - C2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	48.264

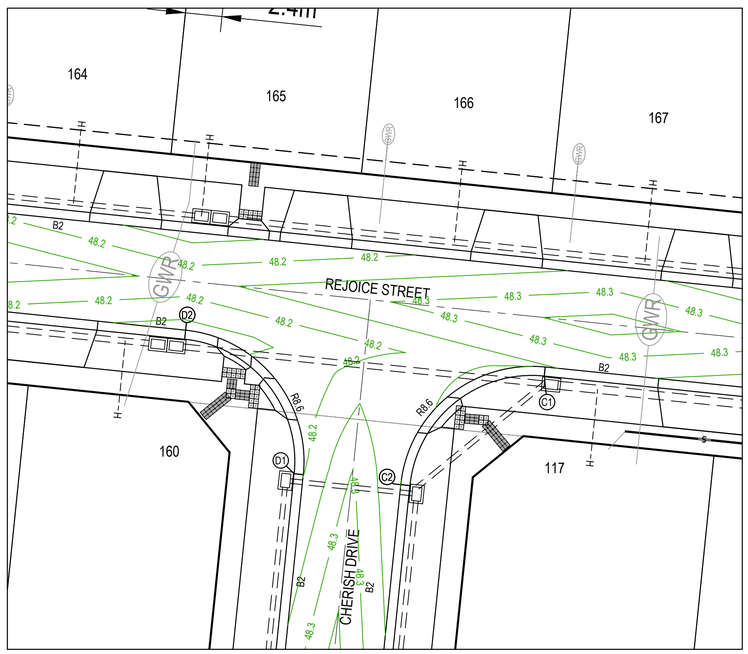
Alignment D

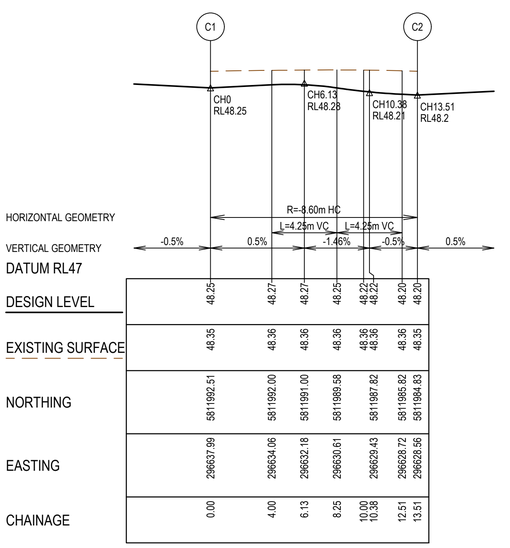
Point no	Easting	Northing	RL
D1	296622.191	5811985.486	48.209
D2	296614.512	5811994.917	48.128

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
D1 - D2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	48.168

NOTES

1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
5. SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.





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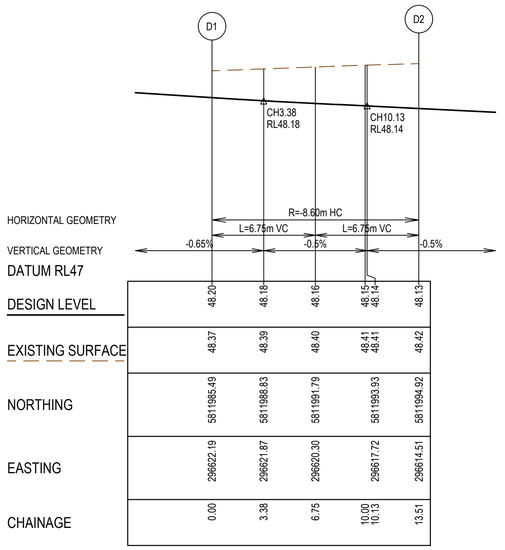

LIP LINE D

LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

AS CONSTRUCTED PLANS

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 2 4 8 Scale 1:200

0 2 4 8 0 0.2 0.4 0.8 Scale H1:200, V1:20 SCALE AS SHOWN AT A1

N

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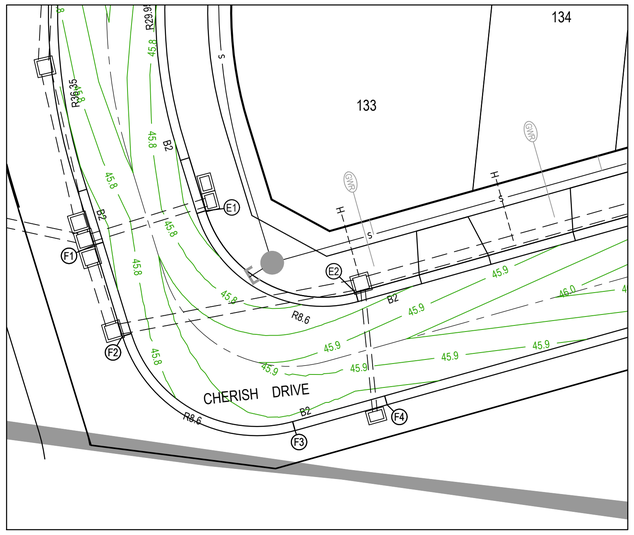
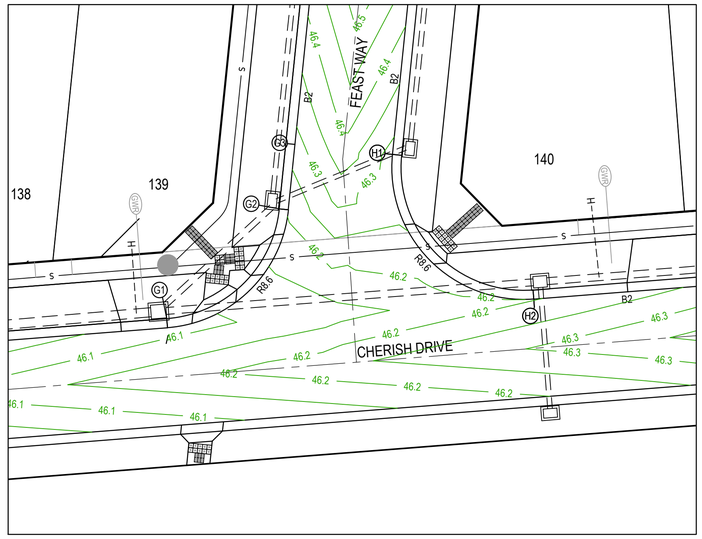
GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Intersection Detail Plan - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-04	04 of 33	2

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-04.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:33:08 PM





Alignment E

Point no	Easting	Northing	RL
E1	296457.609	5811769.493	45.734
E2	296468.149	5811763.741	45.831

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
E1 - E2	88.546	8.600	13.291	2.442	1.808	3.241	2.763	3.323	45.769

Alignment F

Point no	Easting	Northing	RL
F1	296451.492	5811767.611	45.734
F2	296453.327	5811761.647	45.765
F3	296463.867	5811755.895	45.842
F4	296469.875	5811757.578	45.832

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
F2 - F3	88.546	8.600	13.291	2.442	1.808	3.241	2.763	3.323	45.812

Alignment G

Point no	Easting	Northing	RL
G1	296516.898	5811772.639	46.077
G2	296524.784	5811780.337	46.207
G3	296525.222	5811784.608	46.279

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
G1 - G2	79.687	8.600	11.961	1.997	1.482	2.930	2.580	2.990	46.125

Alignment H

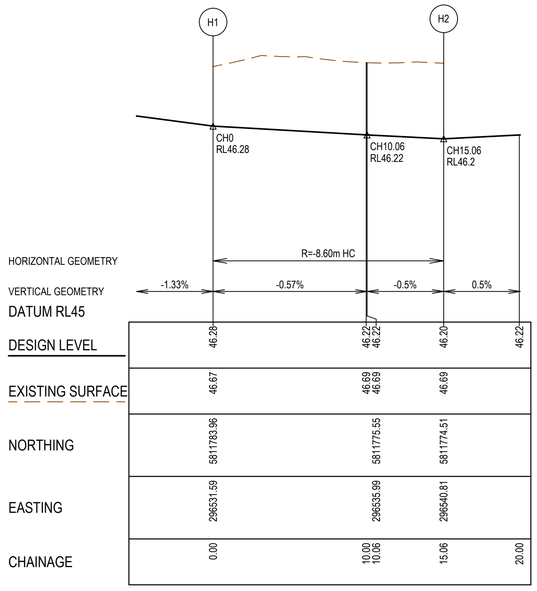
Point no	Easting	Northing	RL
H1	296531.588	5811783.957	46.279
H2	296540.813	5811774.507	46.197

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
H1 - H2	100.312	8.600	15.057	3.090	2.279	3.645	2.958	3.764	46.237

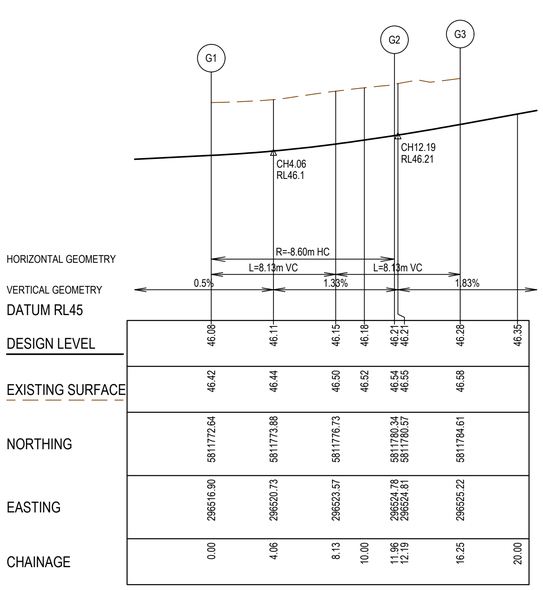
LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH



LIP LINE H



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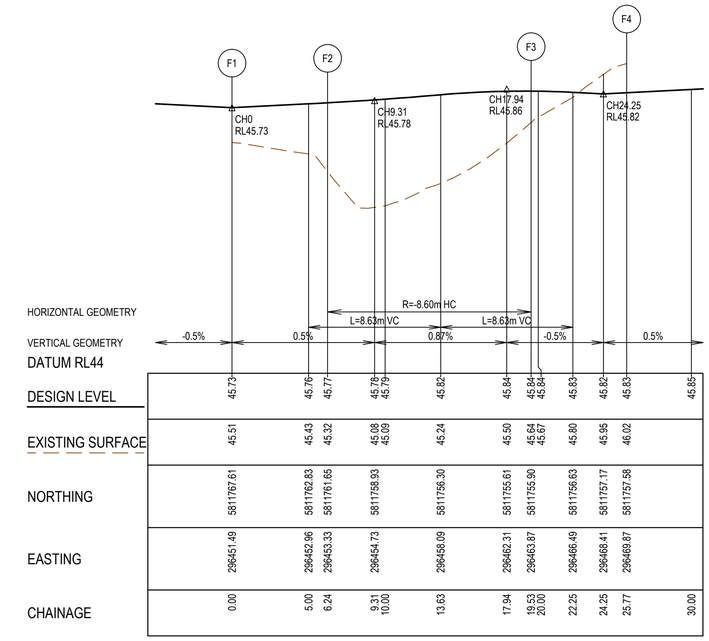

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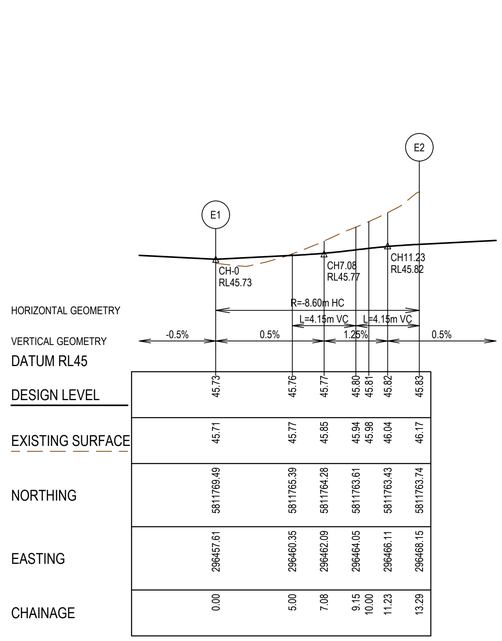

LIP LINE E

AS CONSTRUCTED PLANS

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 2 4 8 Scale 1:200

0 2 4 8 / 0 0.2 0.4 0.8 Scale H1:200, V1:20 SCALE AS SHOWN AT A1

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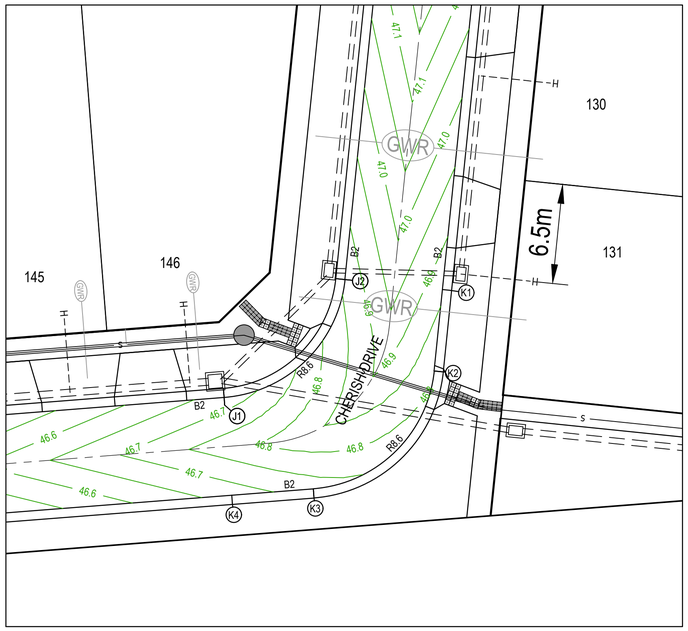
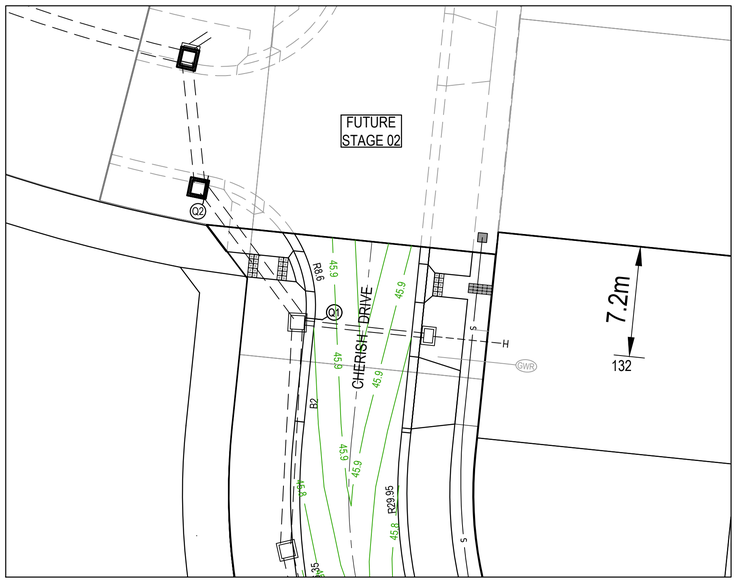
GROWLAND

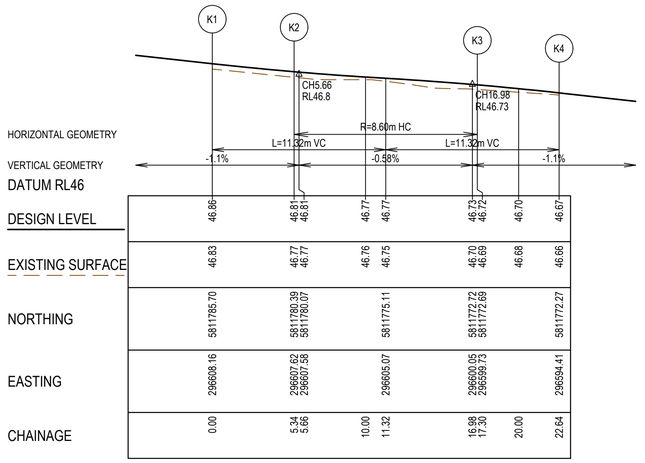
Marigold - Stage 1
Wyndham City Council
Road and Drainage
Intersection Detail Plan - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-05	05 of 33	2

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-05.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:33:42 PM







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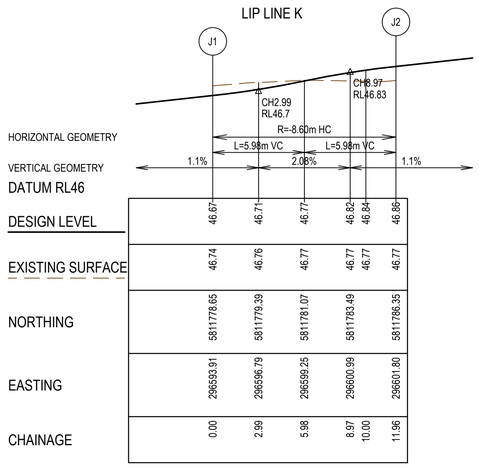

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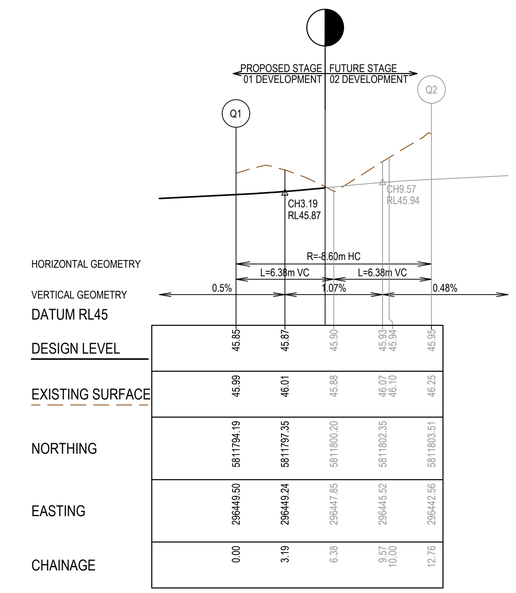

LIP LINE Q

LEGEND - INTERSECTION DETAIL PLAN ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
S	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
GWR	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
GWR	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
H	FUTURE HOUSE DRAIN
GWR	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

Alignment J

Point no	Easting	Northing	RL
J1	296593.912	5811778.653	46.672
J2	296601.798	5811786.351	46.862

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
J1 - J2	79.687	8.600	11.961	1.997	1.482	2.930	2.580	2.990	46.767

Alignment K

Point no	Easting	Northing	RL
K1	296608.164	5811785.699	46.862
K2	296607.620	5811780.386	46.810
K3	296599.734	5811772.689	46.724
K4	296594.410	5811772.273	46.672

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
K2 - K3	79.687	8.600	11.961	1.997	1.482	2.930	2.580	2.990	46.767

Alignment Q

Point no	Easting	Northing	RL
Q1	296449.503	5811794.186	45.853
Q2	296442.563	5811803.509	45.949

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
Q1 - Q2	85.021	8.600	12.761	2.260	1.675	3.118	2.694	3.190	45.894

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0 2 4 8 Scale 1:200

0 0.2 0.4 0.8 Scale H1:200, V1:20 SCALE AS SHOWN AT A1

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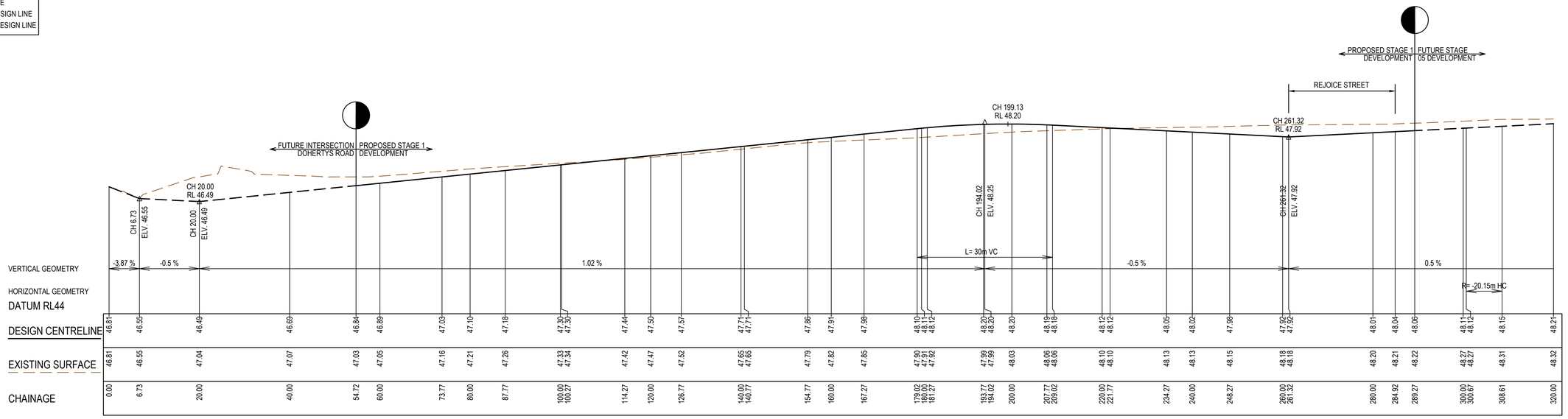
GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Intersection Detail Plan - 3

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-06	06 of 33	2

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-06.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:34:14 PM

LEGEND
- EXISTING SURFACE
- DESIGN LINE
- FUTURE DESIGN LINE
- EXISTING DESIGN LINE



PADMA BOULEVARD LONGITUDINAL SECTION

PADMA BOULEVARD DESIGN LINE

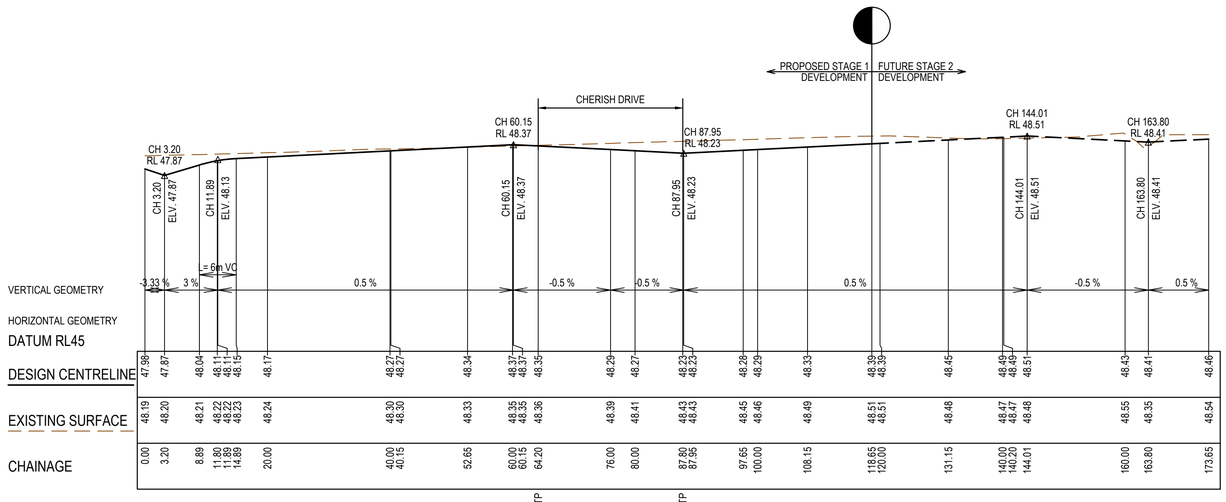
IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	296674.357	5811717.458	46.813	IP	5°50'50.00"		
	300.673	296704.988	5812016.566	48.115	TC	5°50'50.00"		
2	304.643	296705.398	5812020.567	48.135	IP		7.941	-20.150
	308.613	296704.240	5812024.420	48.155	CT	343°16'05.55"		
	506.060	296647.396	5812213.507	49.142	TC	343°16'05.55"		
3	511.443	296645.639	5812219.353	49.169	IP		10.767	-9.150
	516.827	296639.566	5812219.975	49.196	CT	275°50'50.00"		
	803.794	296354.091	5812249.210	50.120	TC	275°50'50.00"		
4	810.805	296346.811	5812249.956	50.104	IP		14.023	19.850
	817.817	296341.757	5812255.248	50.139	CT	316°19'20.00"		
5	948.547	296251.475	5812349.797	50.378	IP	316°19'20.00"		

REJOICE STREET AND CHERISH DRIVE ROAD DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	296702.181	5811989.156	47.977	IP	275°50'49.98"		
	219.700	296483.624	5812011.538	48.584	TC	275°50'49.98"		
2	226.454	296475.069	5812012.414	48.542	IP		13.509	-8.600
	233.209	296474.193	5812003.859	48.480	CT	185°50'50.00"		
	452.095	296451.893	5811786.111	45.921	TC	185°50'50.00"		
3	458.734	296451.208	5811779.417	45.888	IP		13.278	-33.150
	465.373	296453.187	5811772.985	45.855	CT	162°53'50.30"		
	473.132	296455.468	5811765.570	45.856	TC	162°53'50.30"		
4	479.777	296457.934	5811757.557	45.889	IP		13.291	-8.600
	486.422	296466.008	5811759.818	45.923	CT	74°21'05.00"		
	513.441	296492.025	5811767.106	46.058	TC	74°21'05.00"		
5	515.393	296493.911	5811767.634	46.067	IP		3.904	20.000
	517.345	296495.863	5811767.787	46.077	CT	85°32'05.00"		
	618.613	296596.823	5811775.671	46.808	TC	85°32'05.00"		
6	624.593	296603.978	5811776.230	46.873	IP		11.961	-8.600
	630.574	296604.709	5811783.369	46.939	CT	5°50'50.00"		
7	845.220	296626.576	5811996.898		IP	5°50'50.00"		

FEAST WAY

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	296550.972	5812004.641	48.474	IP	185°50'50.00"		
2	235.651	296526.964	5811770.216	46.226	IP	185°50'50.00"		



REJOICE STREET LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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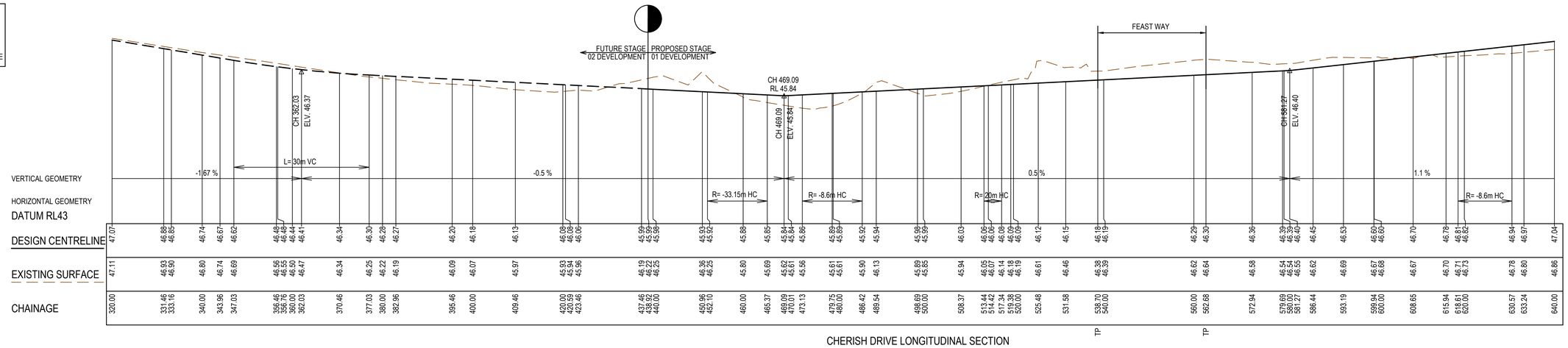
GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Longitudinal Sections - 1

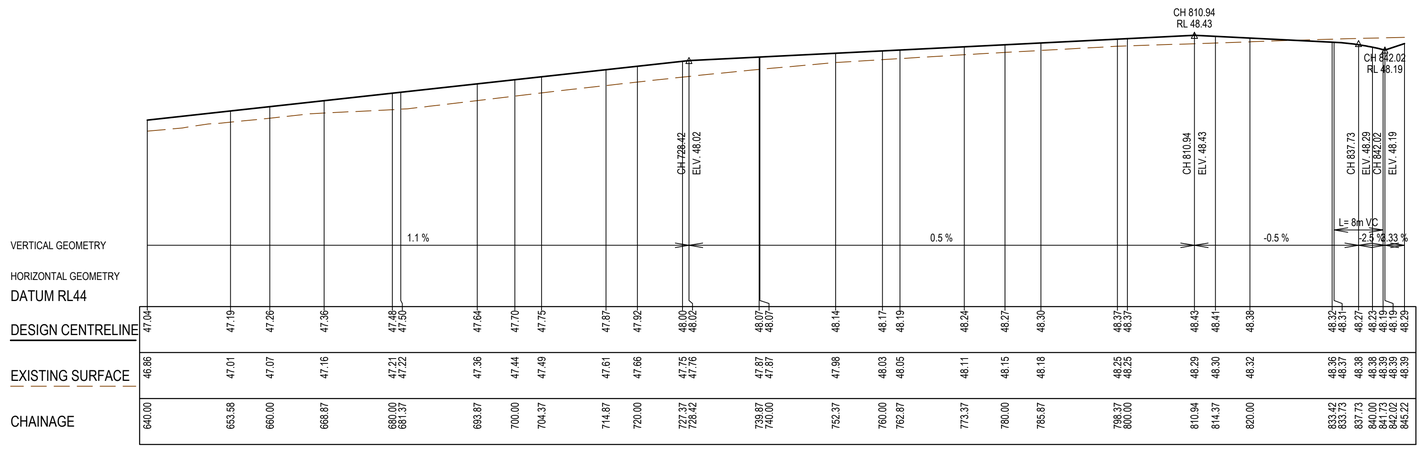
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-07	07 of 33	1

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-07.dwg PRINTED BY: ON10056 on 22/04/2020 at 06:34:38 PM

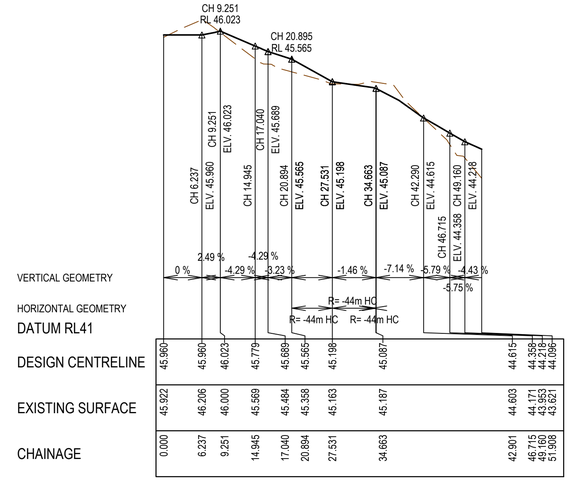
LEGEND
- EXISTING SURFACE
- DESIGN LINE
- FUTURE DESIGN LINE
- EXISTING DESIGN LINE



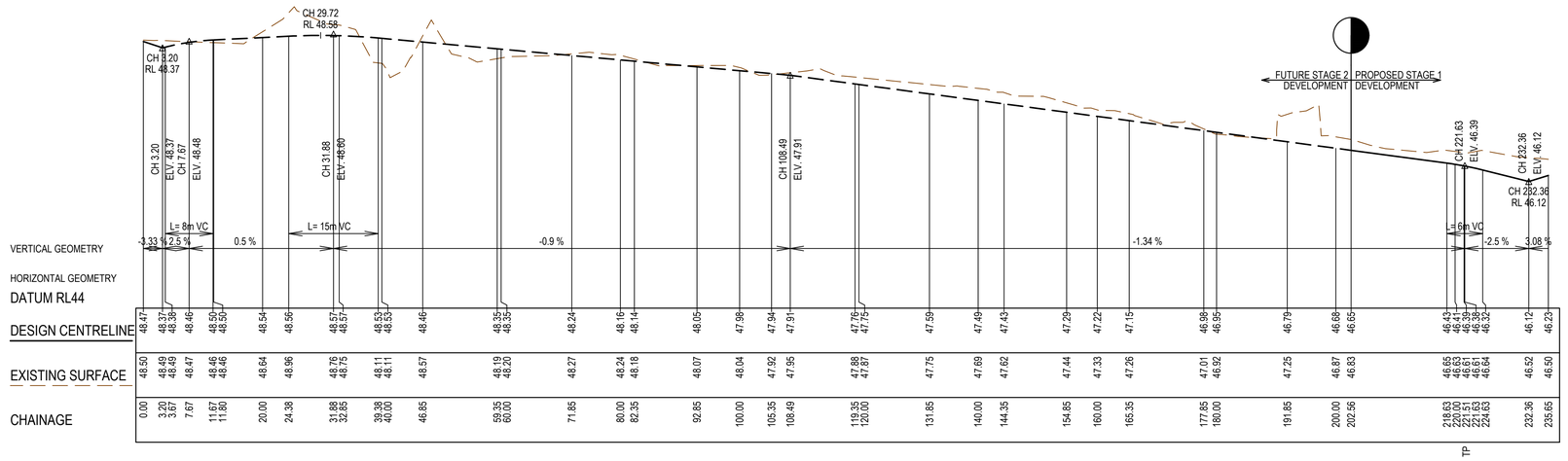
CHERISH DRIVE LONGITUDINAL SECTION



CHERISH DRIVE LONGITUDINAL SECTION



DRY CREEK SHARED FOOTPATH LONGITUDINAL SECTION



FEAST WAY LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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GROWLAND

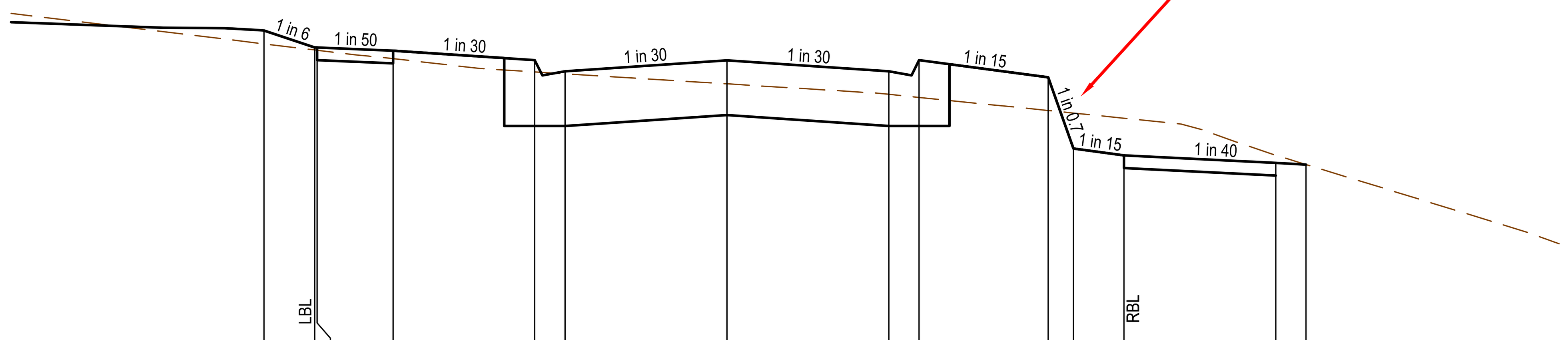
Marigold - Stage 1
Wyndham City Council
Road and Drainage
Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-08	08 of 33	1

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-08.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:35:03 PM

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

REFER TO DRAWING 2360E-01-03 FOR RETAINING WALL INFORMATION

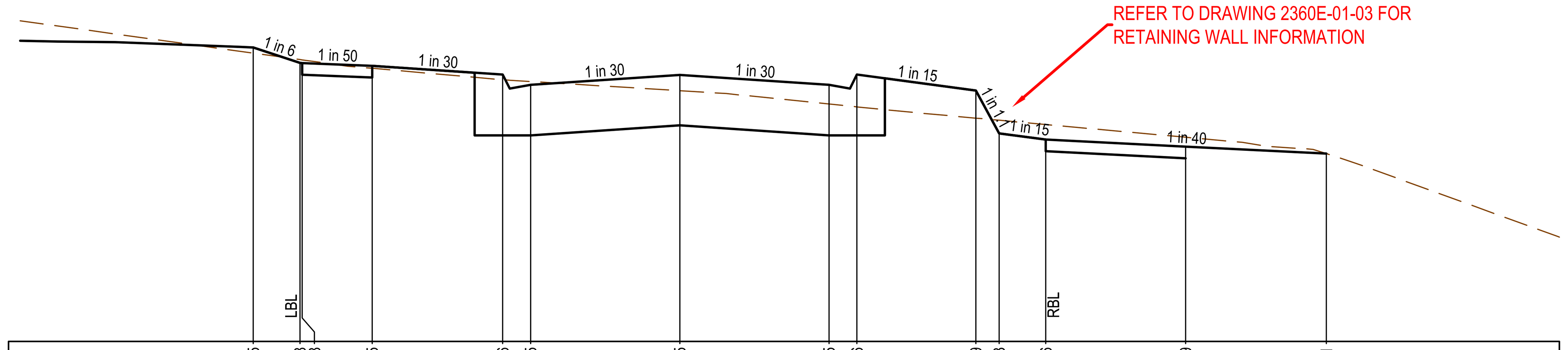


DATUM43.0

DESIGN SURFACE	46.14	45.97	45.97	45.94	45.84	45.73	45.84	45.73	45.84	45.67	44.97	44.90	44.83	44.81
EXISTING SURFACE	46.00	45.94	45.94	45.86	45.73	45.71	45.61	45.51	45.48	45.35	45.32	45.27	44.90	44.81
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.35	6.85	7.85	10.85	11.45

CH 470.01

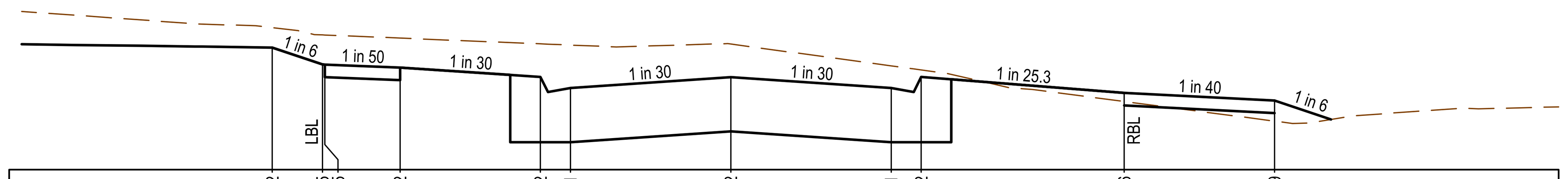
REFER TO DRAWING 2360E-01-03 FOR RETAINING WALL INFORMATION



DATUM43.0

DESIGN SURFACE	46.15	45.98	45.98	45.95	45.86	45.75	45.85	45.75	45.86	45.69	45.23	45.16	45.09	45.01
EXISTING SURFACE	46.09	46.02	46.02	45.93	45.80	45.78	45.69	45.54	45.51	45.39	45.37	45.32	45.19	45.01
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.35	6.85	7.85	10.85	13.87

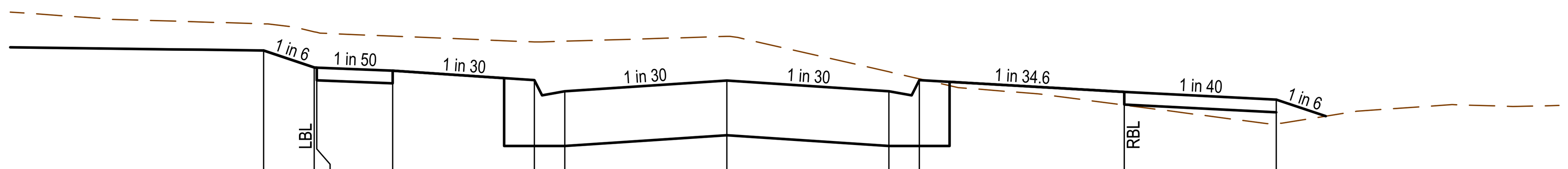
CH 465.37



DATUM45.0

DESIGN SURFACE	46.22	46.05	46.05	46.02	45.92	45.81	45.92	45.81	45.92	45.76	45.69
EXISTING SURFACE	46.41	46.34	46.34	46.31	46.25	46.24	46.25	46.03	45.99	45.68	45.48
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	7.85	10.85

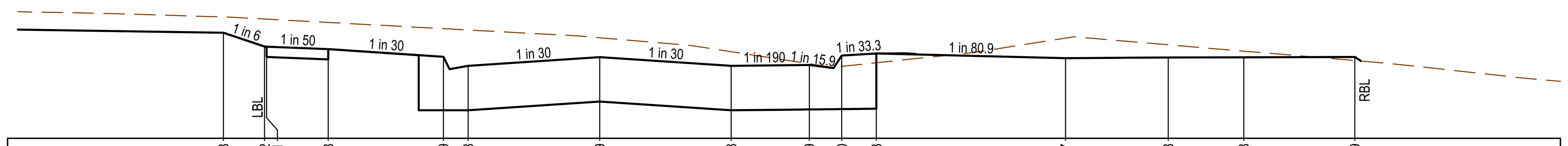
CH 452.10



DATUM45.0

DESIGN SURFACE	46.22	46.05	46.05	46.02	45.93	45.82	45.93	45.82	45.93	45.81	45.74
EXISTING SURFACE	46.49	46.41	46.40	46.36	46.31	46.31	46.36	46.01	45.94	45.68	45.50
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	7.85	10.85

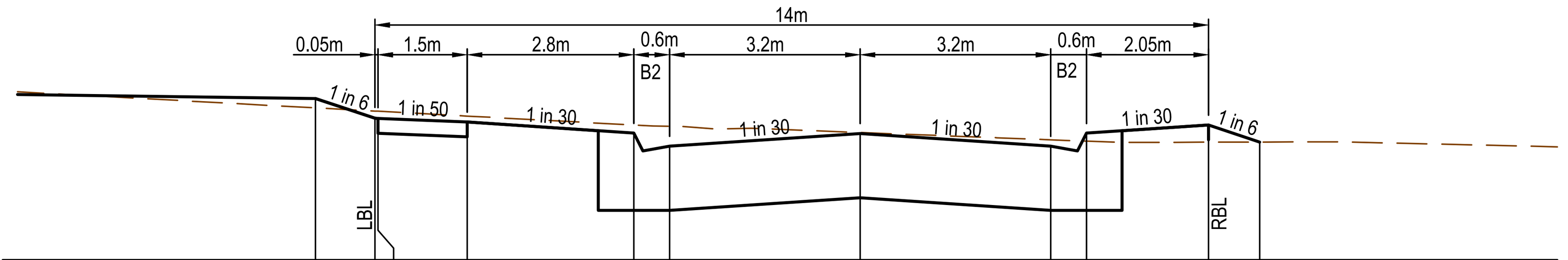
CH 450.96



DATUM45.0

DESIGN SURFACE	46.28	46.12	46.11	46.08	45.99	45.88	45.99	45.88	45.89	46.00	46.03	45.97	45.98	45.98	45.99
EXISTING SURFACE	46.47	46.45	46.45	46.41	46.33	46.32	46.22	46.05	45.91	45.87	45.92	46.22	46.14	46.06	45.94
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	5.10	5.89	6.73	11.33	13.83	15.66	18.37

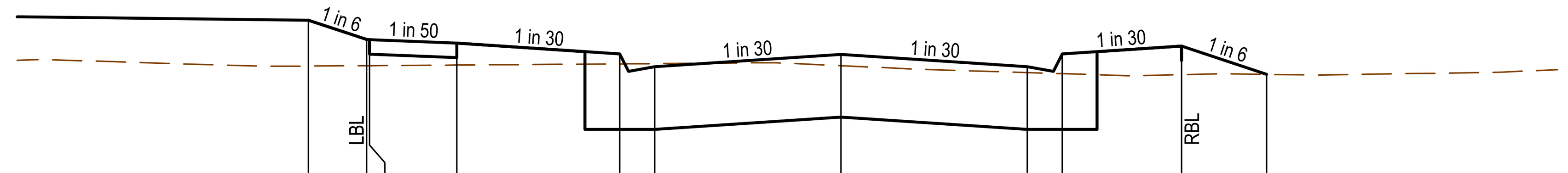
CH 438.92



DATUM45.0

DESIGN SURFACE	46.36	46.19	46.19	46.16	46.07	45.96	46.06	45.96	46.07	46.13	45.99
EXISTING SURFACE	46.28	46.25	46.25	46.21	46.13	46.12	46.07	46.01	46.00	45.99	45.99
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	5.85	6.71

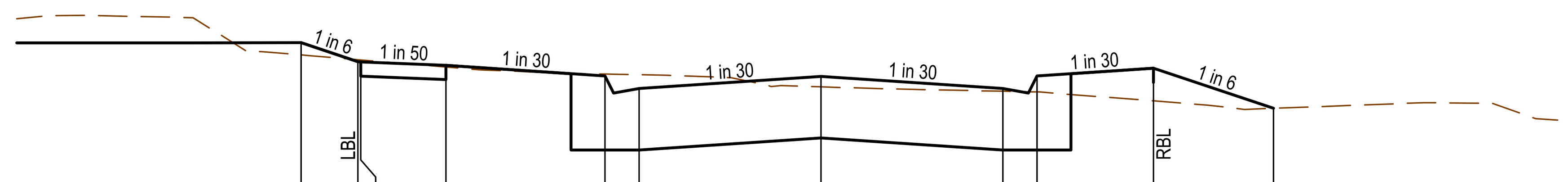
CH 514.42



DATUM45.0

DESIGN SURFACE	46.33	46.16	46.16	46.13	46.04	45.93	46.03	45.93	46.04	46.10	45.86
EXISTING SURFACE	45.93	45.94	45.94	45.94	45.95	45.95	45.94	45.88	45.87	45.86	45.86
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	5.85	7.31

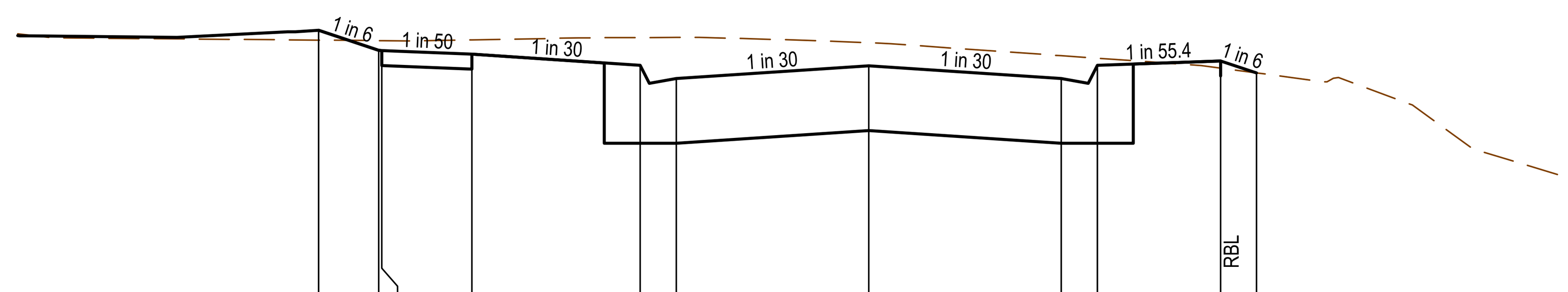
CH 508.37



DATUM45.0

DESIGN SURFACE	46.28	46.11	46.11	46.08	45.99	45.88	45.98	45.88	45.99	46.06	45.70
EXISTING SURFACE	46.17	46.13	46.13	46.07	46.00	46.00	45.89	45.85	45.85	45.77	45.70
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	5.85	7.96

CH 498.69

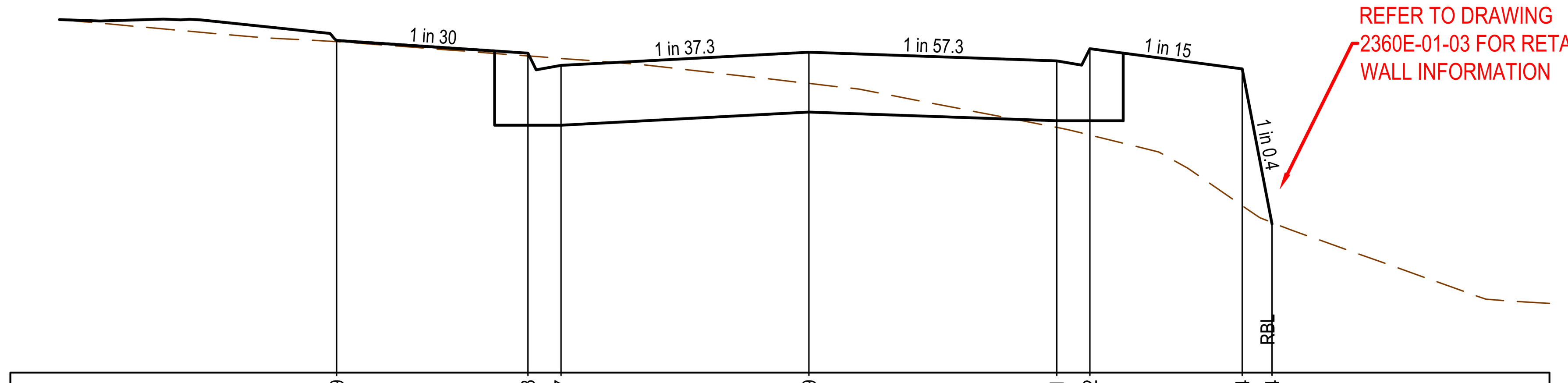


DATUM44.0

DESIGN SURFACE	46.23	46.07	46.06	46.03	45.94	45.83	45.94	45.83	45.94	45.98	45.88
EXISTING SURFACE	46.15	46.15	46.15	46.15	46.17	46.17	46.13	46.02	46.00	45.92	45.88
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	5.85	6.45

CH 489.54

REFER TO DRAWING 2360E-01-03 FOR RETAINING WALL INFORMATION



DATUM43.0

DESIGN SURFACE	45.99	45.88	45.77	45.89	45.81	45.92	45.74	44.34
EXISTING SURFACE	45.98	45.86	45.83	45.61	45.21	45.14	44.50	44.35
OFFSET	-8.52	-5.07	-4.47	0.00	4.47	5.07	7.82	8.35

CH 479.75

AS CONSTRUCTED PLANS

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Environmental Management · ISO14001 — Global-Mark.com.au®

TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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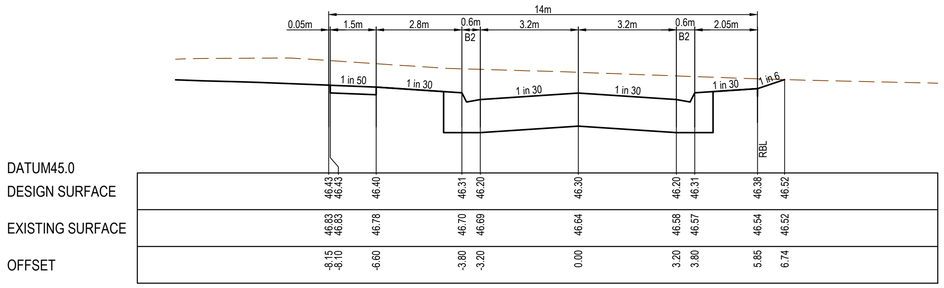
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

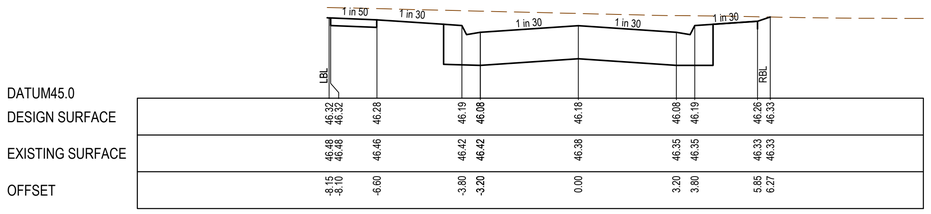
Marigold - Stage 1
Wyndham City Council
Road and Drainage
Cross Sections: Cherish Drive
Ch 438.92 - Ch 514.42

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-09	09 of 33	1

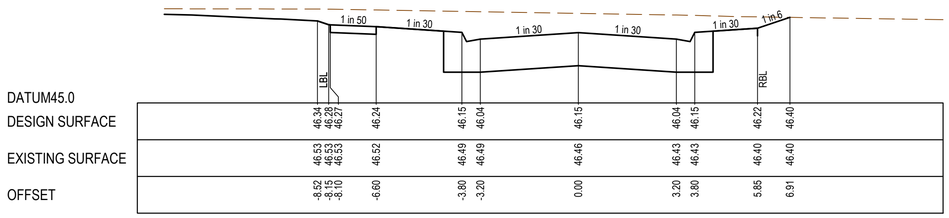
DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-09.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:35:27 PM



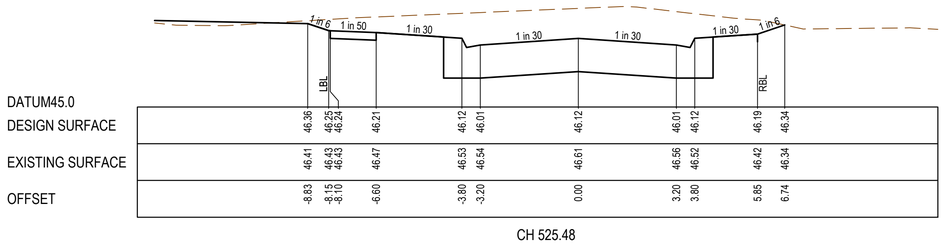
CH 562.68



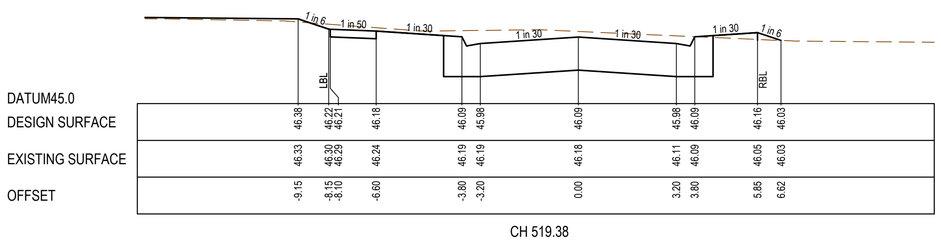
TPCH 538.70



CH 531.58

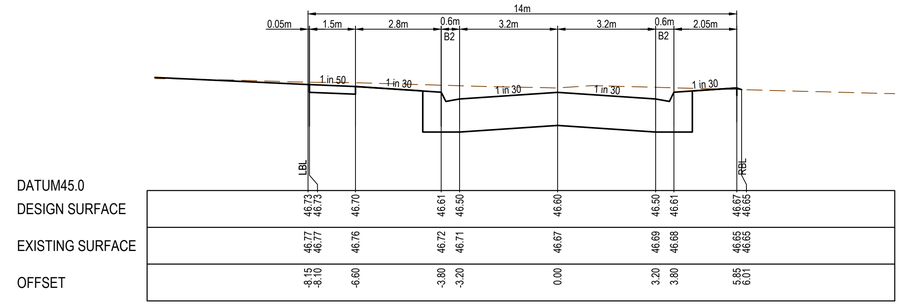


CH 525.48

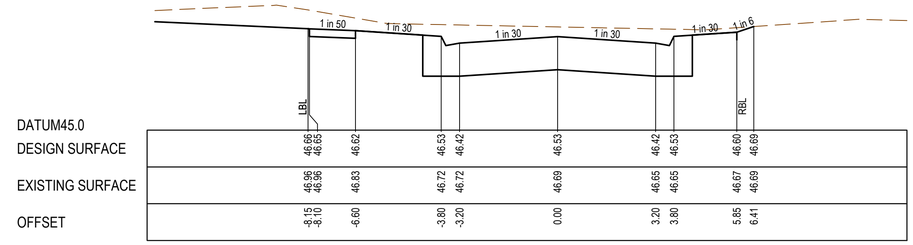


CH 519.38

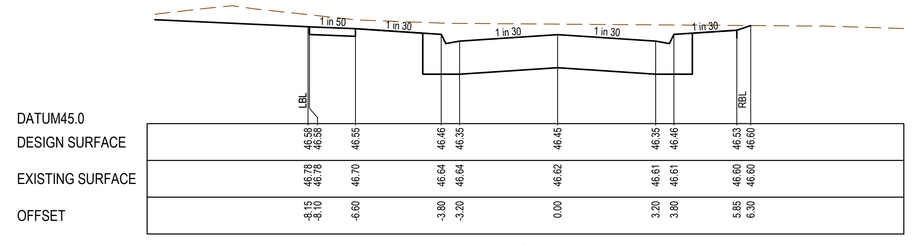
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



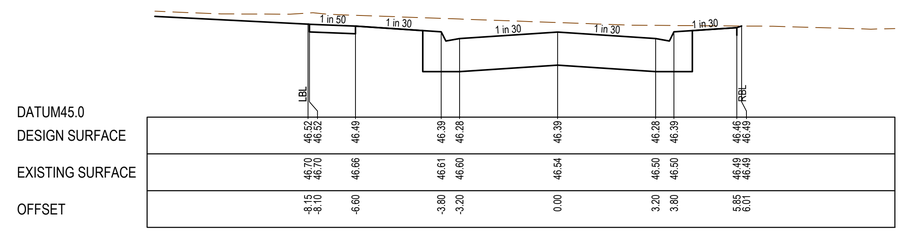
CH 599.94



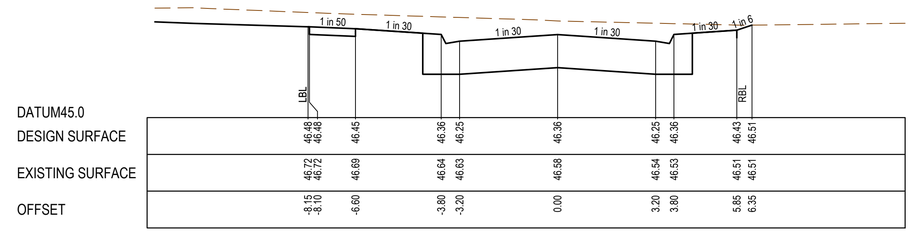
CH 593.19



CH 586.44



CH 579.69



CH 572.94

AS CONSTRUCTED PLANS

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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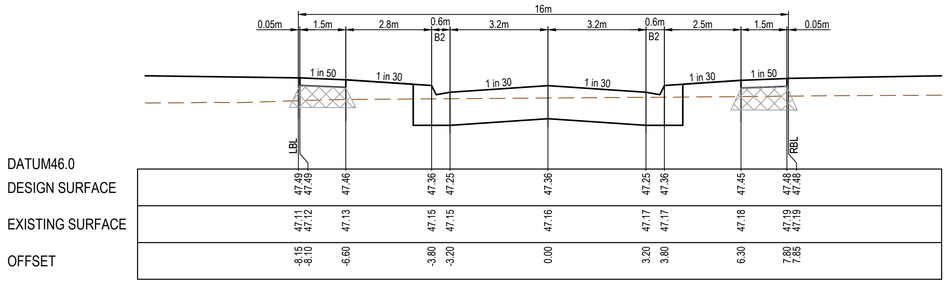
GROWLAND

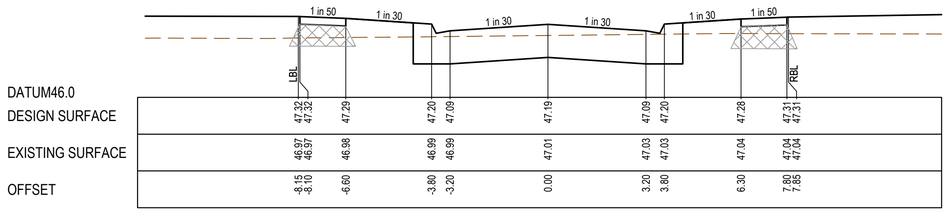
Marigold - Stage 1
Wyndham City Council
Road and Drainage
Cross Sections: Cherish Drive
Ch 519.38 - Ch 599.94

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-10	10 of 33	1

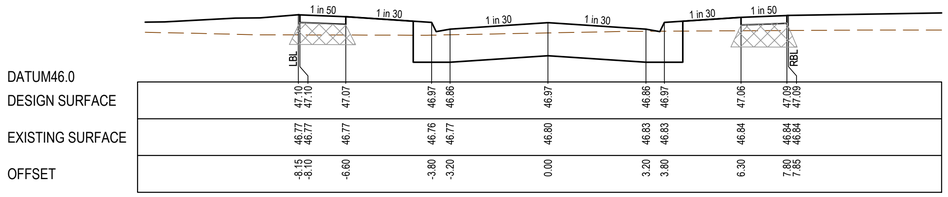
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



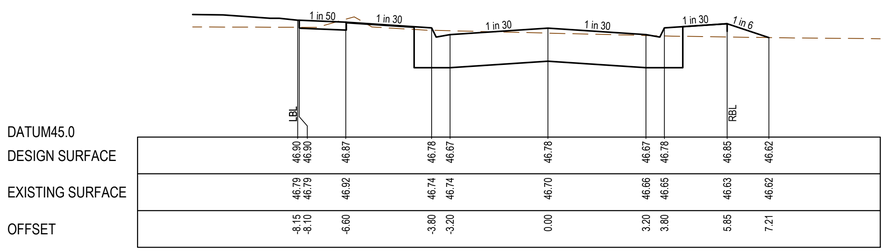
CH 668.87



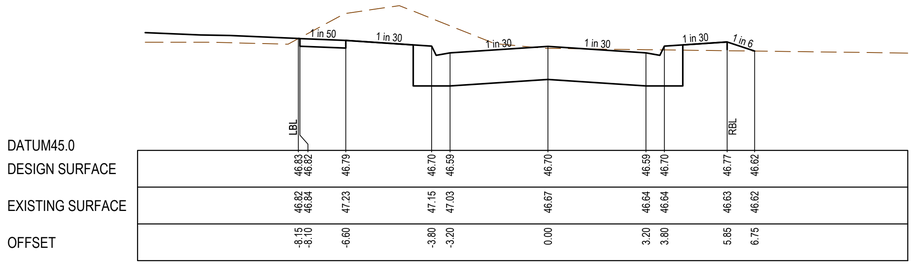
CH 653.58



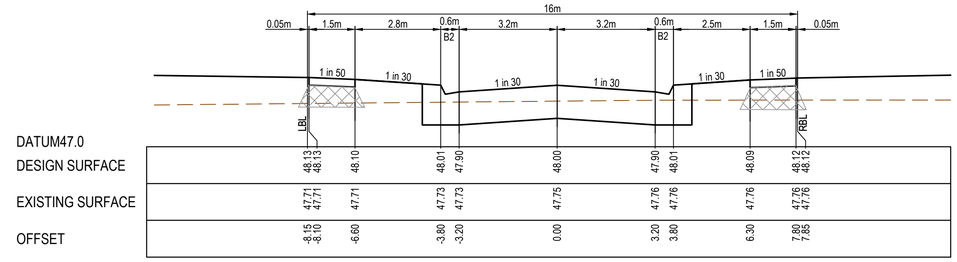
CH 633.24



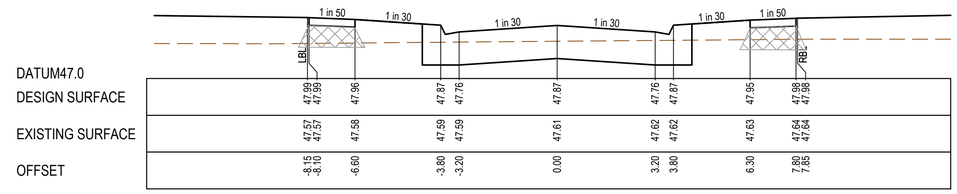
CH 615.94



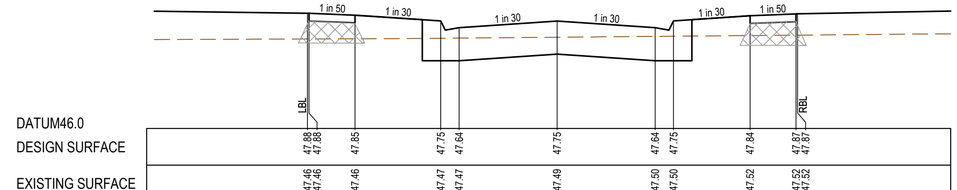
CH 608.65



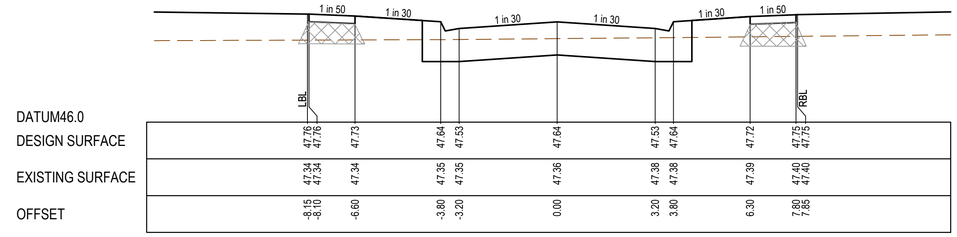
CH 727.37



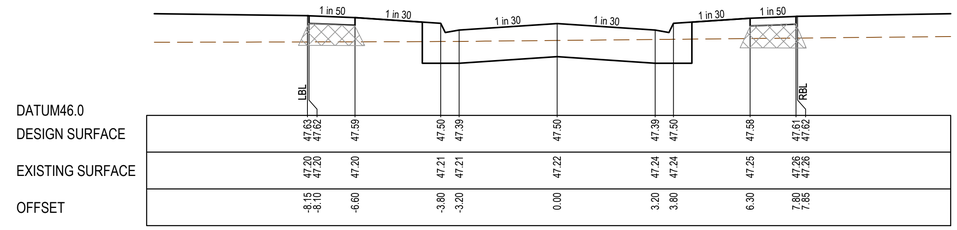
CH 714.87



CH 704.37



CH 693.87



CH 681.37

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

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Quality Management - ISO 9001 Global-Mark.com.au® OHS Management - AS/NZS 4801 Global-Mark.com.au® Environmental Management - ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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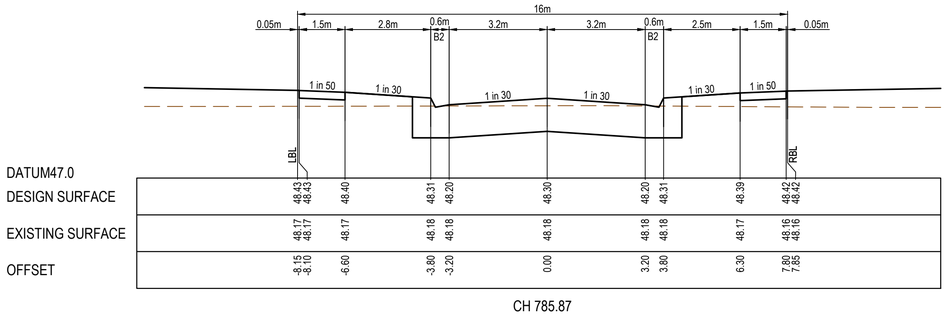
GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Cross Sections: Cherish Drive
Ch 608.65 - Ch 727.37

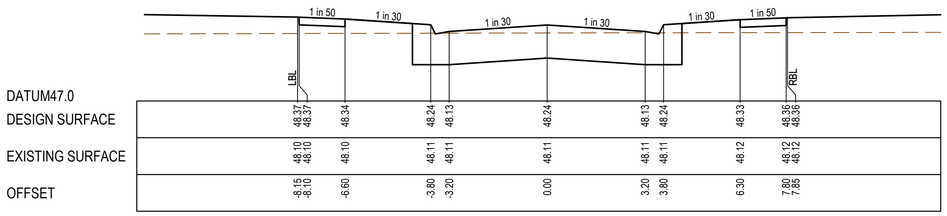
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-11	11 of 33	1

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-11.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:36:14 PM

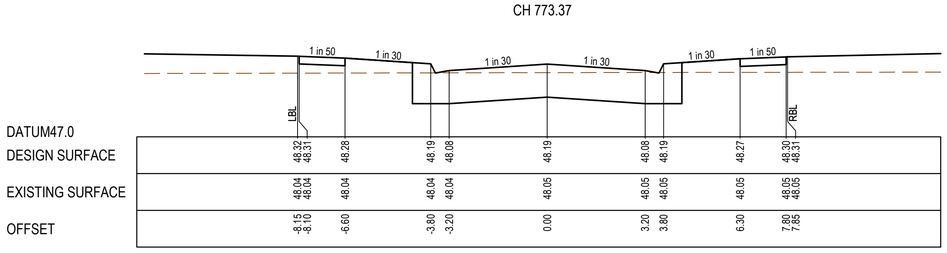
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



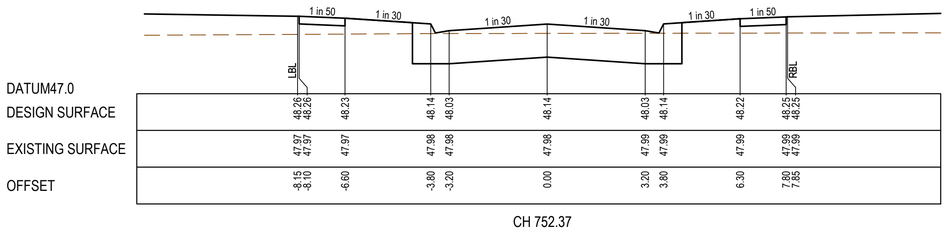
CH 785.87



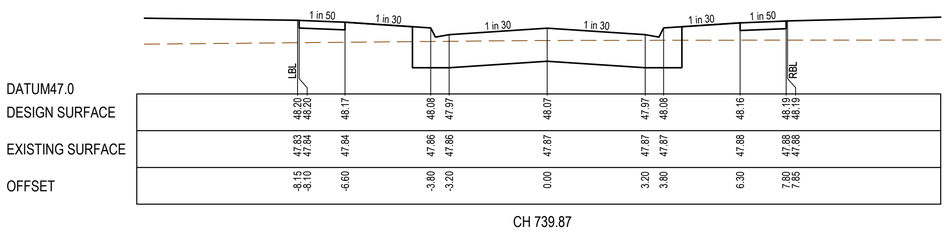
CH 773.37



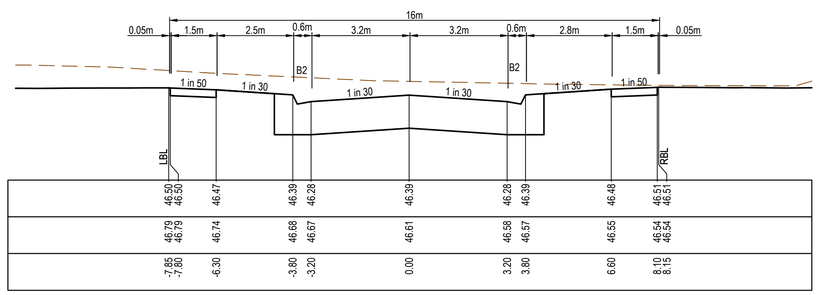
CH 762.87



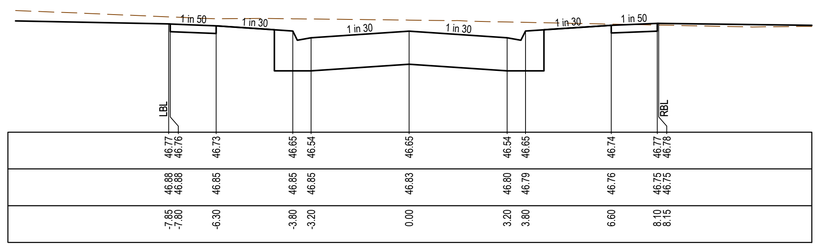
CH 752.37



CH 739.87

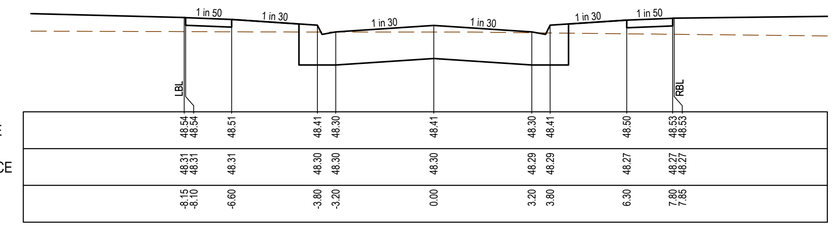


CH 221.51

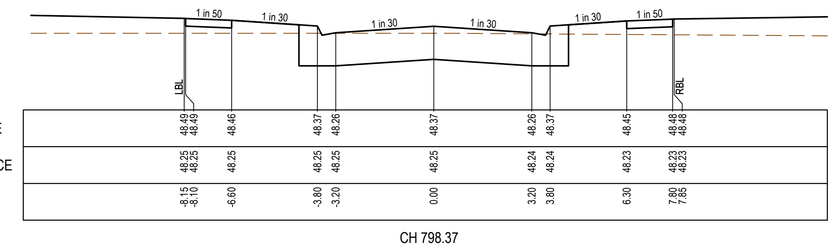


CH 202.56

FEAST WAY



CH 814.37



CH 798.37

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

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Quality Management - ISO 9001 Global-Mark.com.au® OHS Management - AS/NZS 4801 Global-Mark.com.au® Environmental Management - ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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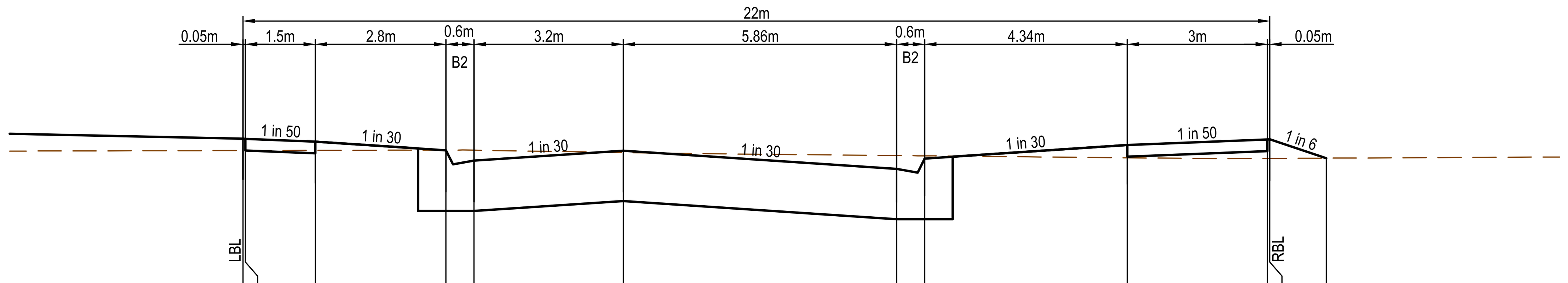
GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Cross Sections: Cherish Drive Ch 739.87 - Ch 814.37 & Feast Way

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-12	12 of 33	1

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-12.dwg PRINTED BY: ON10556 on 22/04/2020 at 06:36:38 PM

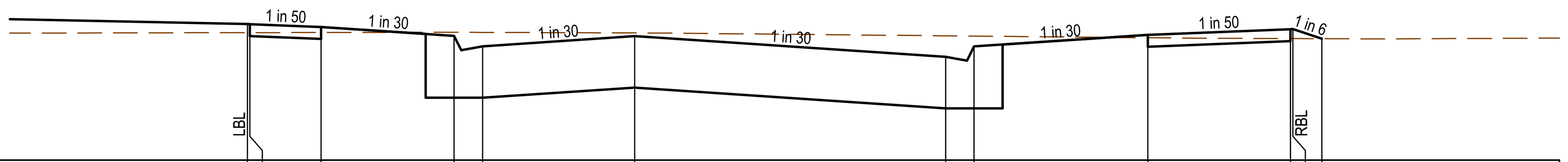
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



DATUM46.0

DESIGN SURFACE	47.57	47.57	47.54	47.45	47.34	47.44	47.25	47.36	47.50	47.56	47.57	47.36
EXISTING SURFACE	47.45	47.45	47.45	47.45	47.45	47.42	47.39	47.39	47.37	47.36	47.36	47.36
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	5.86	6.46	10.80	13.80	13.85	15.06

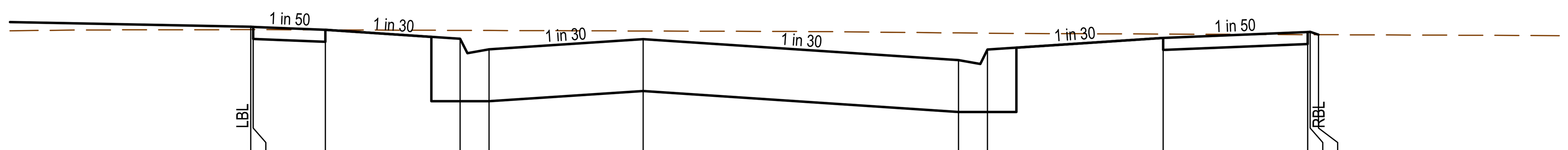
CH 114.27



DATUM46.0

DESIGN SURFACE	47.43	47.43	47.40	47.31	47.20	47.30	47.08	47.19	47.32	47.38	47.38	47.28
EXISTING SURFACE	47.34	47.34	47.34	47.34	47.34	47.34	47.31	47.30	47.29	47.28	47.28	47.28
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	6.54	7.14	10.80	13.80	13.85	14.46

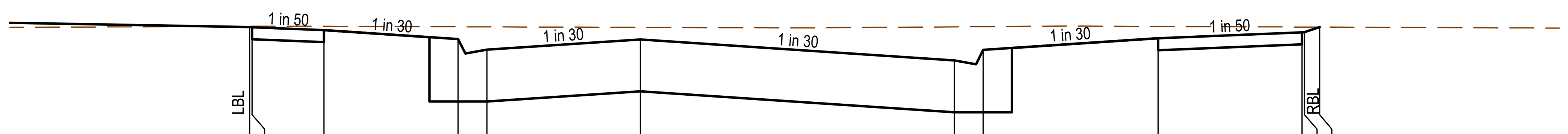
CH 100.27



DATUM46.0

DESIGN SURFACE	47.30	47.30	47.27	47.18	47.07	47.18	46.96	47.07	47.19	47.25	47.25	47.22
EXISTING SURFACE	47.27	47.27	47.27	47.27	47.27	47.26	47.24	47.24	47.23	47.22	47.22	47.22
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	6.55	7.15	10.80	13.80	13.85	14.02

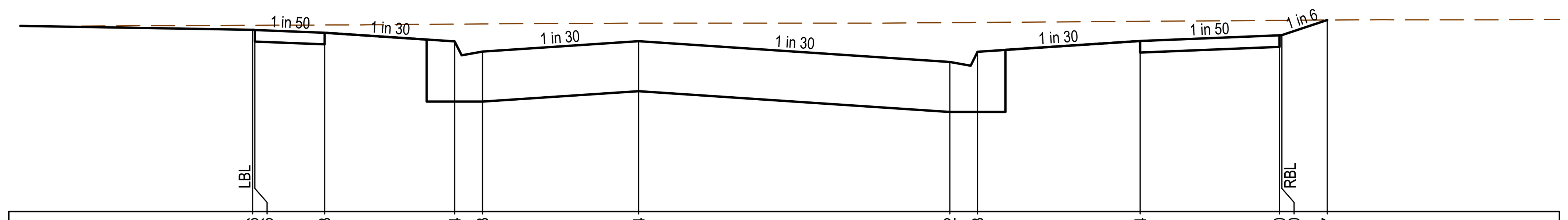
CH 87.77



DATUM46.0

DESIGN SURFACE	47.16	47.16	47.13	47.04	46.93	47.03	46.81	46.92	47.05	47.11	47.11	47.16
EXISTING SURFACE	47.17	47.17	47.17	47.17	47.16	47.16	47.16	47.17	47.17	47.16	47.16	47.16
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	6.55	7.15	10.80	13.80	13.85	14.17

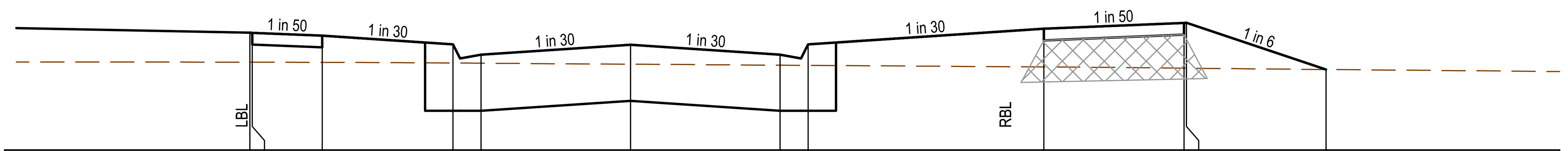
CH 73.77



DATUM45.0

DESIGN SURFACE	46.96	46.96	46.93	46.84	46.73	46.84	46.62	46.73	46.84	46.90	46.90	47.07
EXISTING SURFACE	47.01	47.01	47.01	47.02	47.03	47.03	47.04	47.04	47.05	47.06	47.06	47.07
OFFSET	-8.31	-8.26	-6.76	-3.96	-3.36	0.00	6.70	7.30	10.80	13.80	13.85	14.83

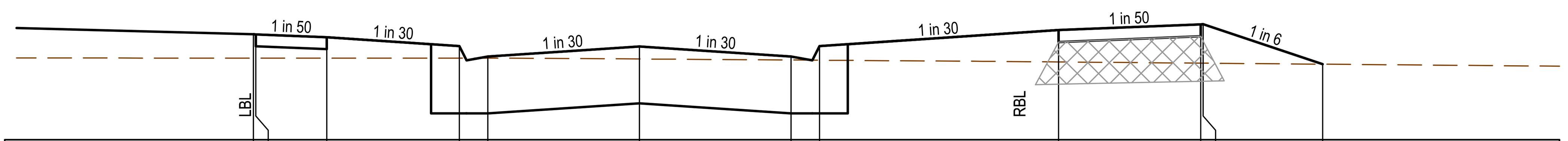
CH 54.72



DATUM47.0

DESIGN SURFACE	48.25	48.25	48.22	48.13	48.02	48.12	48.02	48.13	48.30	48.36	48.36	47.86
EXISTING SURFACE	47.94	47.94	47.94	47.93	47.93	47.92	47.90	47.90	47.89	47.87	47.87	47.86
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	8.85	11.85	11.90	14.89

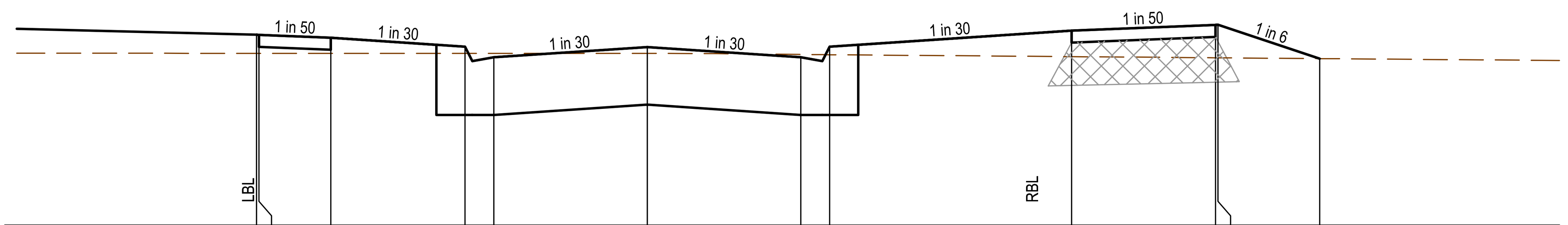
CH 181.27



DATUM47.0

DESIGN SURFACE	48.11	48.11	48.08	47.99	47.88	47.98	47.88	47.99	48.15	48.21	48.22	47.80
EXISTING SURFACE	47.86	47.86	47.86	47.86	47.86	47.85	47.84	47.84	47.82	47.81	47.81	47.80
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	8.85	11.85	11.90	14.42

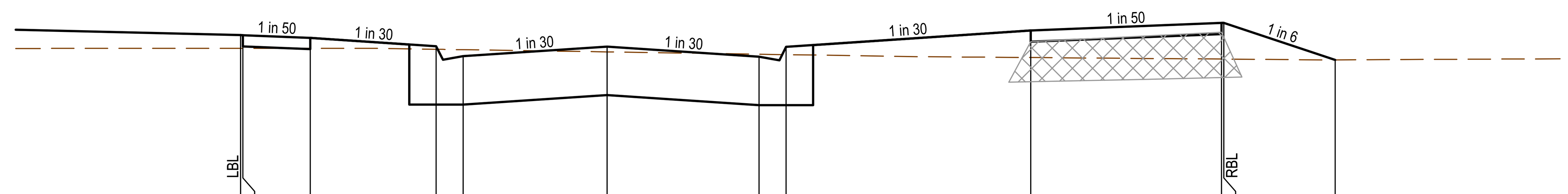
CH 167.27



DATUM46.0

DESIGN SURFACE	47.98	47.98	47.95	47.86	47.75	47.86	47.75	47.86	48.03	48.09	48.09	47.74
EXISTING SURFACE	47.79	47.79	47.79	47.79	47.79	47.79	47.78	47.78	47.76	47.74	47.74	47.74
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	8.85	11.85	11.90	14.02

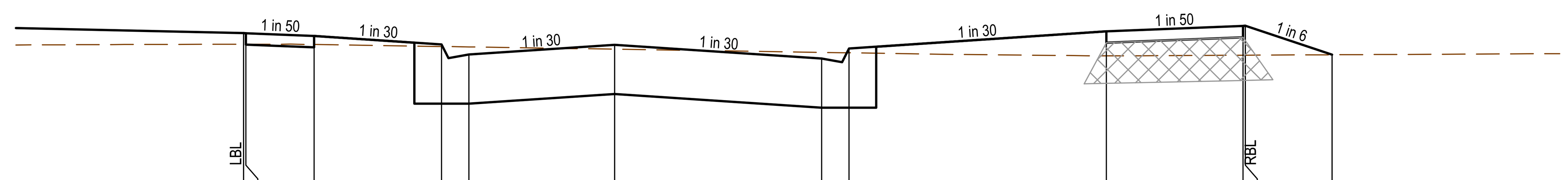
CH 154.77



DATUM46.0

DESIGN SURFACE	47.84	47.84	47.81	47.72	47.61	47.71	47.60	47.71	47.89	47.98	47.98	47.57
EXISTING SURFACE	47.69	47.69	47.69	47.68	47.68	47.65	47.63	47.62	47.59	47.57	47.57	47.57
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.38	3.98	9.42	13.66	13.71	16.19

CH 140.77



DATUM46.0

DESIGN SURFACE	47.70	47.70	47.67	47.57	47.46	47.57	47.42	47.53	47.72	47.78	47.78	47.46
EXISTING SURFACE	47.58	47.58	47.57	47.55	47.55	47.52	47.49	47.48	47.45	47.46	47.46	47.46
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	4.55	5.15	10.80	13.80	13.85	15.76

CH 126.77

AS CONSTRUCTED PLANS

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OHS Management · AS/NZS 4801 — Global-Mark.com.au®
Environmental Management · ISO14001 — Global-Mark.com.au®

TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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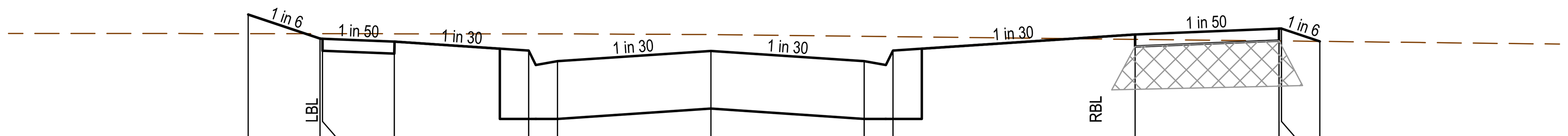
GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Cross Sections: Padma Boulevard
Ch 54.72 - 181.27

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-13	13 of 33	2

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-13.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:37:03 PM

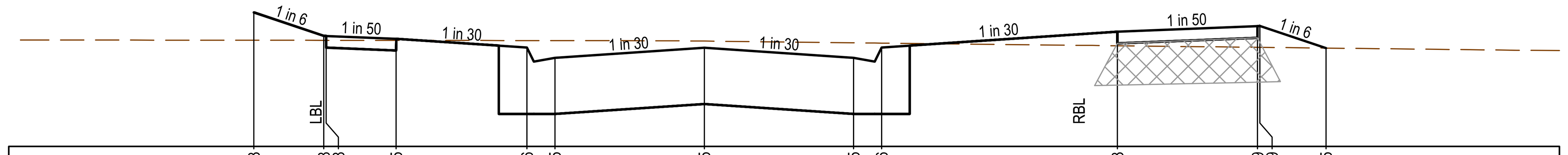
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



DATUM47.0

DESIGN SURFACE	48.36	48.11	48.11	48.08	47.99	47.88	47.98	47.88	47.99	48.16	48.22	48.22	48.08
EXISTING SURFACE	48.16	48.16	48.16	48.16	48.16	48.16	48.15	48.14	48.13	48.10	48.09	48.09	48.08
OFFSET	-9.65	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	8.85	11.85	11.90	12.70

CH 248.27



DATUM47.0

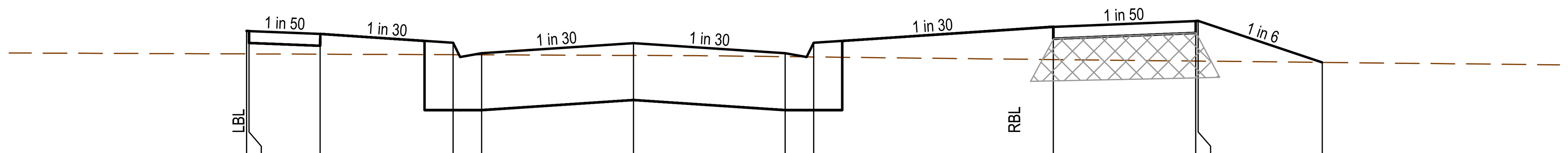
DESIGN SURFACE	48.43	48.18	48.18	48.15	48.06	47.95	48.05	47.95	48.06	48.23	48.29	48.29	48.05
EXISTING SURFACE	48.13	48.13	48.13	48.13	48.13	48.13	48.13	48.11	48.10	48.08	48.06	48.06	48.05
OFFSET	-9.65	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	8.85	11.85	11.90	13.32

CH 234.27

DATUM47.0

DESIGN SURFACE	48.38	48.24	48.24	48.21	48.12	48.01	48.12	48.01	48.12	48.29	48.35	48.35	48.03
EXISTING SURFACE	48.11	48.11	48.11	48.11	48.11	48.11	48.10	48.08	48.08	48.05	48.04	48.04	48.03
OFFSET	-8.95	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	8.85	11.85	11.90	13.84

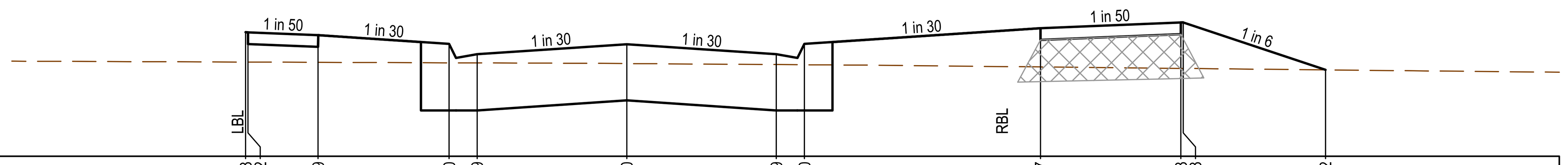
CH 221.77



DATUM47.0

DESIGN SURFACE	48.31	48.31	48.28	48.19	48.08	48.19	48.08	48.19	48.36	48.42	48.42	47.98
EXISTING SURFACE	48.07	48.07	48.07	48.06	48.06	48.06	48.04	48.04	48.01	48.00	48.00	47.98
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	8.85	11.85	11.90	14.52

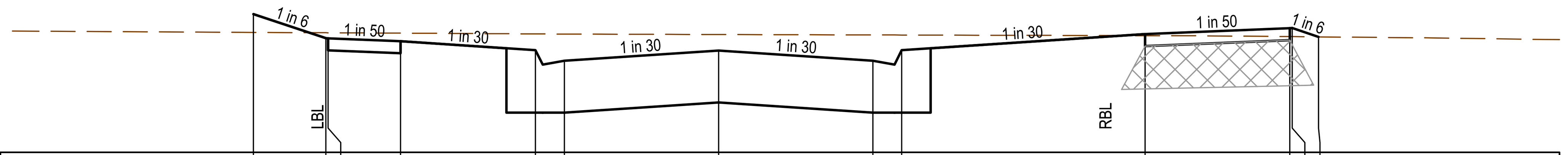
CH 207.77



DATUM47.0

DESIGN SURFACE	48.33	48.32	48.29	48.20	48.09	48.20	48.09	48.20	48.37	48.43	48.43	47.92
EXISTING SURFACE	48.01	48.01	48.00	48.00	48.00	47.99	47.98	47.98	47.95	47.94	47.94	47.92
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	8.85	11.85	11.90	14.94

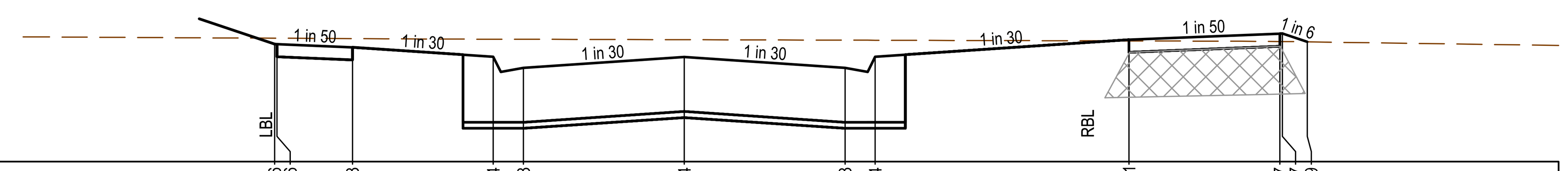
CH 193.77



DATUM47.0

DESIGN SURFACE	48.44	48.19	48.18	48.15	48.06	47.95	48.06	47.95	48.06	48.23	48.29	48.29	48.20
EXISTING SURFACE	48.25	48.24	48.24	48.24	48.23	48.23	48.22	48.22	48.22	48.21	48.20	48.20	48.20
OFFSET	-9.65	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	8.85	11.85	11.90	12.45

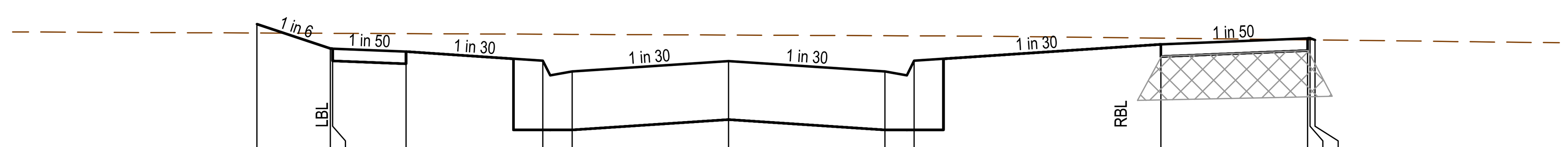
CH 289.27



DATUM47.0

DESIGN SURFACE	48.16	48.16	48.13	48.04	47.93	48.04	47.93	48.04	48.21	48.27	48.27	48.19
EXISTING SURFACE	48.22	48.22	48.22	48.21	48.21	48.21	48.20	48.20	48.20	48.19	48.19	48.19
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	8.85	11.85	11.90	12.40

CH 284.92



DATUM47.0

DESIGN SURFACE	48.30	48.05	48.04	48.01	47.92	47.81	47.92	47.81	47.92	48.09	48.15	48.15	48.13
EXISTING SURFACE	48.21	48.20	48.20	48.20	48.19	48.19	48.18	48.18	48.18	48.15	48.14	48.13	48.13
OFFSET	-9.65	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	8.85	11.85	11.90	12.00

CH 261.32

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

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Environmental Management · ISO14001 — Global-Mark.com.au®

TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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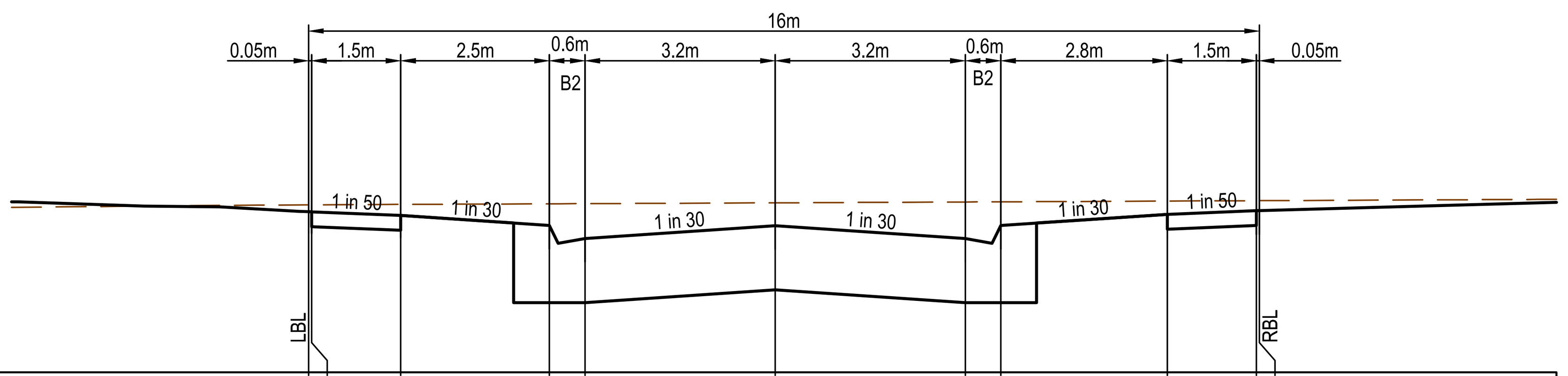
GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Cross Sections: Padma Boulevard
Ch 193.77 - 289.27

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-14	14 of 33	2

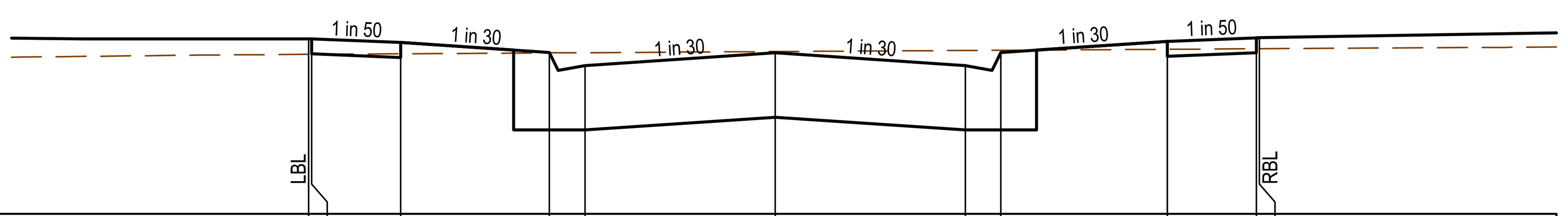
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



DATUM47.0

DESIGN SURFACE	48.35	48.35	48.32	48.24	48.13	48.23	48.13	48.24	48.33	48.36	48.36
EXISTING SURFACE	48.41	48.41	48.41	48.42	48.42	48.43	48.43	48.44	48.44	48.45	48.45
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15

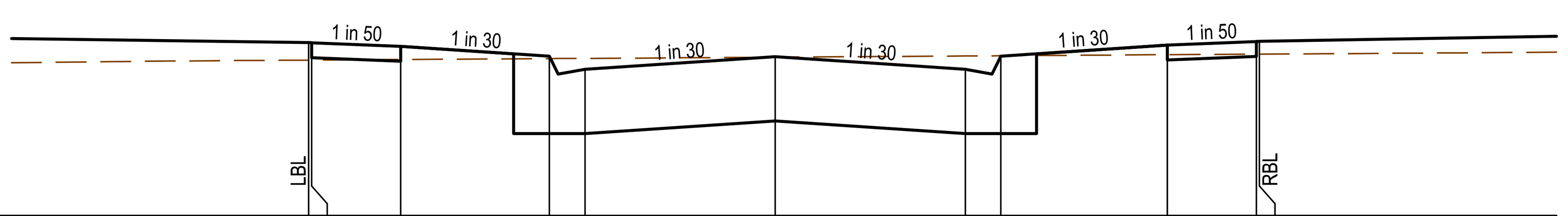
TPCH 87.80



DATUM47.0

DESIGN SURFACE	48.47	48.47	48.44	48.36	48.25	48.35	48.25	48.36	48.45	48.48	48.48
EXISTING SURFACE	48.34	48.34	48.34	48.35	48.35	48.36	48.37	48.37	48.38	48.39	48.39
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15

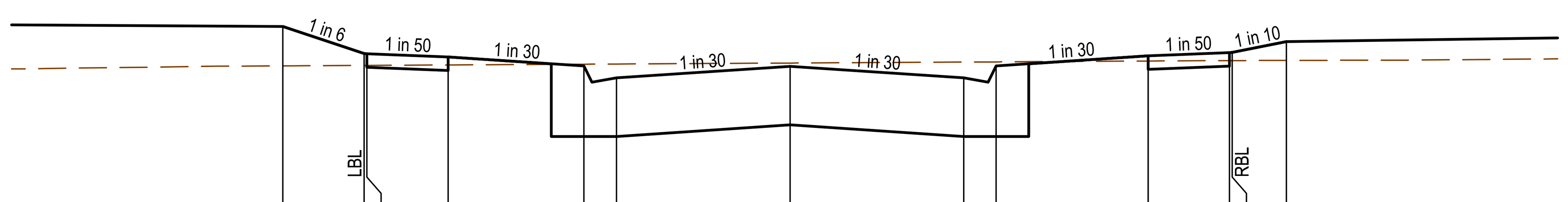
TPCH 64.20



DATUM47.0

DESIGN SURFACE	48.45	48.45	48.42	48.34	48.23	48.34	48.23	48.34	48.43	48.46	48.46
EXISTING SURFACE	48.31	48.31	48.31	48.32	48.32	48.33	48.34	48.34	48.35	48.36	48.36
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15

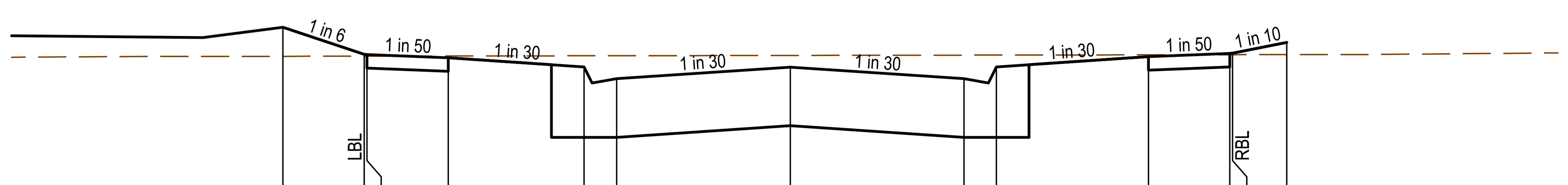
CH 52.65



DATUM47.0

DESIGN SURFACE	48.64	48.39	48.39	48.36	48.28	48.17	48.27	48.17	48.28	48.37	48.40	48.40	48.50
EXISTING SURFACE	48.28	48.28	48.28	48.29	48.29	48.29	48.30	48.31	48.31	48.32	48.33	48.33	48.33
OFFSET	-9.35	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15	9.15

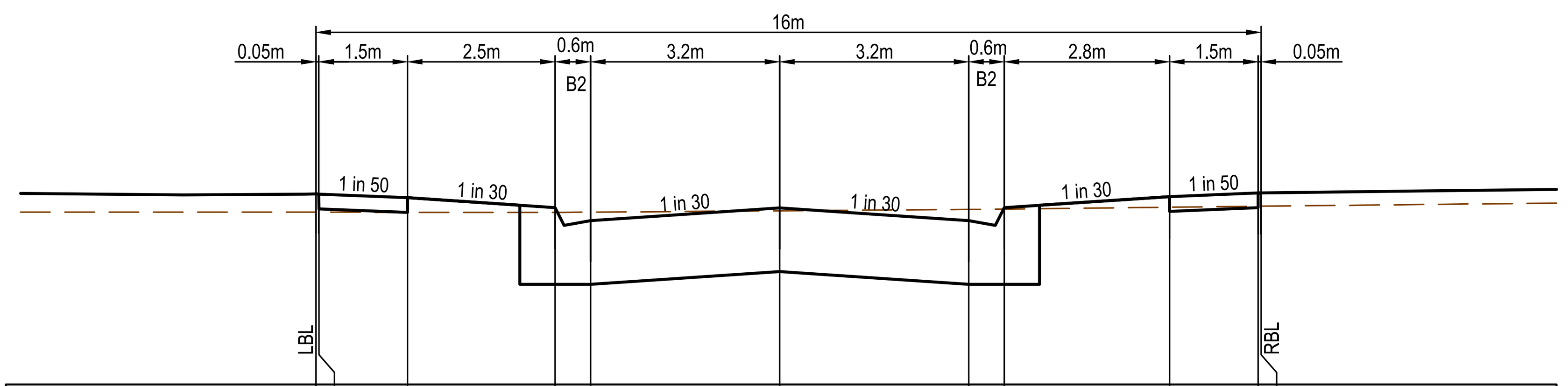
CH 40.15



DATUM47.0

DESIGN SURFACE	48.48	48.23	48.23	48.20	48.11	48.00	48.11	48.00	48.11	48.21	48.24	48.24	48.34
EXISTING SURFACE	48.21	48.21	48.21	48.21	48.22	48.22	48.22	48.22	48.22	48.23	48.23	48.23	48.23
OFFSET	-9.35	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15	9.15

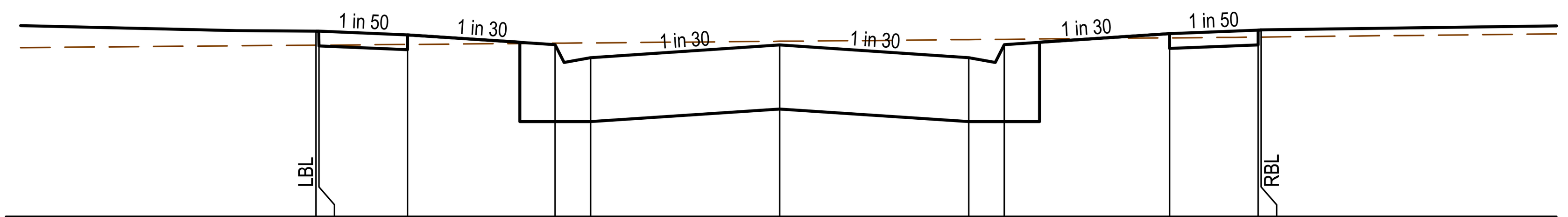
TPCH 11.80



DATUM47.0

DESIGN SURFACE	48.61	48.61	48.58	48.50	48.39	48.49	48.39	48.50	48.59	48.62	48.62
EXISTING SURFACE	48.46	48.46	48.46	48.46	48.46	48.47	48.48	48.49	48.50	48.51	48.51
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15

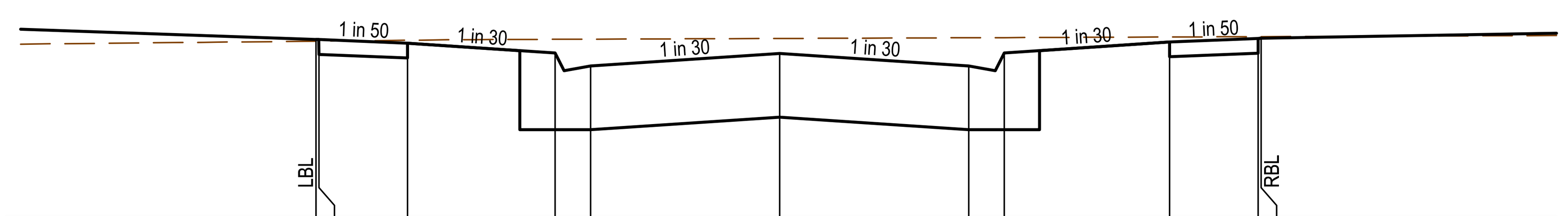
CH 140.20



DATUM47.0

DESIGN SURFACE	48.57	48.57	48.54	48.45	48.34	48.45	48.34	48.45	48.55	48.58	48.58
EXISTING SURFACE	48.45	48.45	48.45	48.47	48.47	48.48	48.50	48.50	48.51	48.52	48.52
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15

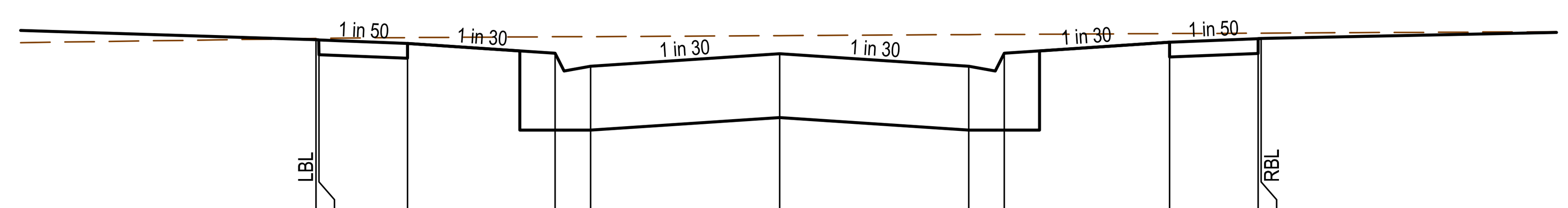
CH 131.15



DATUM47.0

DESIGN SURFACE	48.51	48.50	48.47	48.39	48.28	48.39	48.28	48.39	48.48	48.51	48.52
EXISTING SURFACE	48.49	48.49	48.50	48.51	48.51	48.51	48.52	48.52	48.53	48.53	48.53
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15

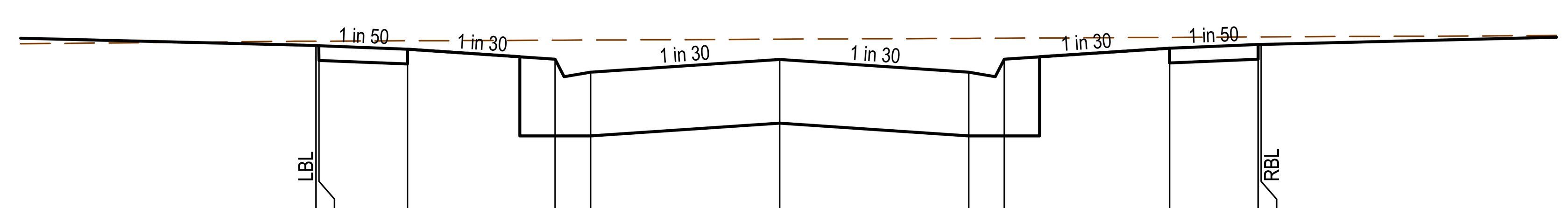
CH 118.65



DATUM47.0

DESIGN SURFACE	48.45	48.45	48.42	48.34	48.23	48.33	48.23	48.34	48.43	48.46	48.46
EXISTING SURFACE	48.46	48.46	48.47	48.48	48.48	48.49	48.50	48.50	48.50	48.51	48.51
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15

CH 108.15



DATUM47.0

DESIGN SURFACE	48.40	48.40	48.37	48.29	48.18	48.28	48.18	48.29	48.38	48.41	48.41
EXISTING SURFACE	48.44	48.44	48.44	48.45	48.45	48.45	48.46	48.46	48.47	48.47	48.47
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15

CH 97.65

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

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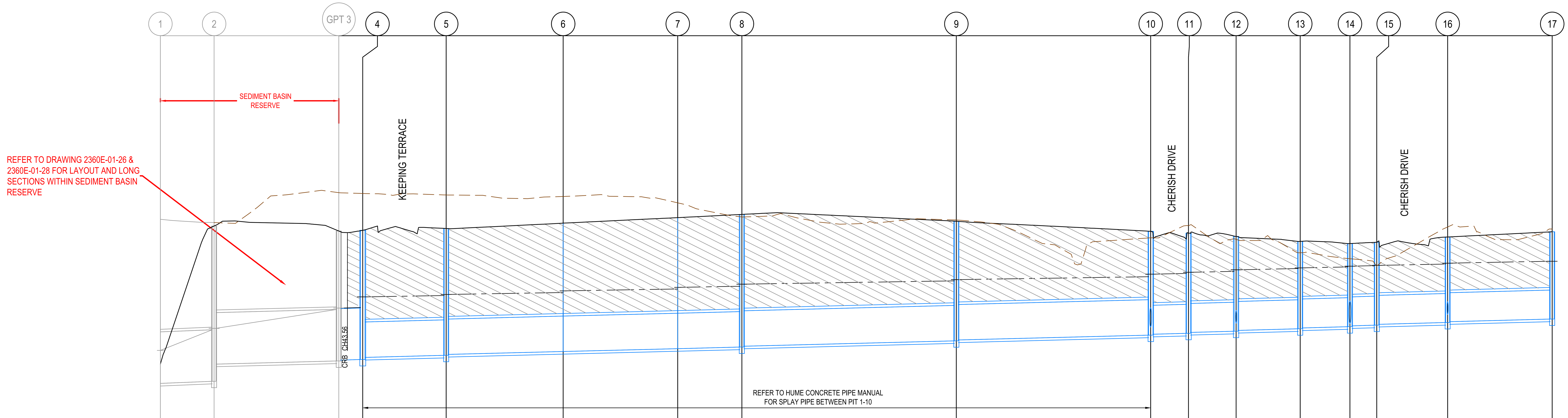
GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Cross Sections: Rejoice Street
Ch 11.80 - 140.20

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-15	15 of 33	1

CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



DATUM 37.0

Reach	Pipe class	Design flow (m3/s)	Capacity (m3/s)	At grade velocity (m/s)	Nominal pipe size (mm) / Pipe type	Grade	(Reach length)
1–2		1.961	2.669	2.36	1200Ø	1 in 250	(12.51)
2–GPT 3		1.965	2.106	1.86	1200Ø	1 in 400	(29.03)
GPT 3–4		1.966	2.106	1.86	1200Ø	1 in 400	(5.58)
4–5	PIPE CLASS 3	0.649	0.789	1.48	825Ø	1 in 400	(19.42)
5–6	PIPE CLASS 3	0.641	0.789	1.48	825Ø	1 in 400	(27.23)
6–7	PIPE CLASS 3	0.649	0.789	1.48	825Ø	1 in 400	(26.68)
7–8	PIPE CLASS 3	0.654	0.789	1.48	825Ø	1 in 400	(14.94)
8–9	PIPE CLASS 3	0.616	0.789	1.48	825Ø	1 in 400	(49.94)
9–10	PIPE CLASS 3	0.610	0.789	1.48	825Ø	1 in 400	(45.24)
10–11	PIPE CLASS 3	0.409	0.466	1.3	675Ø	1 in 400	(8.82)
11–12	PIPE CLASS 3	0.411	0.466	1.3	675Ø	1 in 400	(11.09)
12–13	PIPE CLASS 3	0.405	0.466	1.3	675Ø	1 in 400	(14.91)
13–14	PIPE CLASS 3	0.407	0.466	1.3	675Ø	1 in 400	(11.60)
14–15	PIPE CLASS 3	0.401	0.466	1.3	675Ø	1 in 400	(6.24)
15–16	PIPE CLASS 4	0.405	0.466	1.3	675Ø	1 in 400	(16.50)
16–17	PIPE CLASS 3	0.399	0.466	1.3	675Ø	1 in 400	(24.33)

Pit	Depth to invert		Hydraulic grade line		Invert level		Finished surface levels	Existing surface level	Chainage
1	1.55	1.55	43.32		42.55	42.55	44.10	46.37	0.00
2	3.62	3.22	43.80	43.83	42.60	43.00	46.22	46.30	12.51
GPT 3	3.03	3.01	44.27	44.31	43.07	43.09	46.10	46.99	41.54
4	3.01	2.96	44.32	44.56	43.11	43.16	46.12	46.97	47.13
5	2.95	2.93	44.60	44.62	43.21	43.23	46.16	46.94	66.55
6	2.99	2.99	44.67	44.70	43.29	43.29	46.28	46.90	93.78
7	3.05	3.05	44.75	44.79	43.36	43.36	46.41	46.76	120.46
8	3.09	3.07	44.81	44.86	43.40	43.42	46.49	46.43	135.40
9	2.79	2.77	44.94	44.97	43.54	43.56	46.33	46.36	185.34
10	2.42	2.40	45.04	45.10	43.68	43.70	46.09	45.94	230.59
11	2.33	2.31	45.11	45.14	43.72	43.74	46.05	46.23	239.40
12	2.21	2.19	45.16	45.20	43.76	43.78	45.97	45.91	250.49
13	2.04	2.02	45.23	45.24	43.82	43.84	45.86	45.59	265.40
14	1.94	1.92	45.26	45.28	43.87	43.89	45.81	45.45	277.00
15	1.93	1.91	45.29	45.30	43.91	43.93	45.84	45.28	283.24
16	1.99	1.97	45.33	45.35	43.97	43.99	45.96	46.19	299.75
17	2.03		45.40		44.05		46.08	46.15	324.08

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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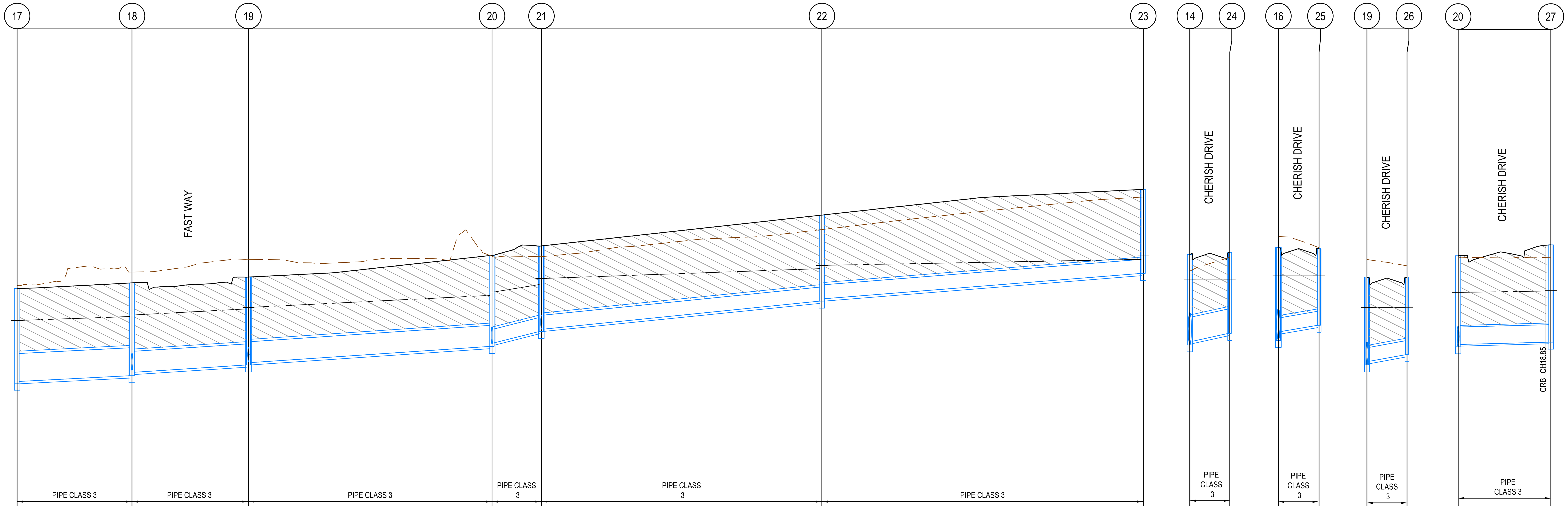
GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-16	16 of 33	1

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-16.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:38:54 PM

CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



Main line: Pits 17 – 23 (DATUM 38.0)

Reach	17–18	18–19	19–20	20–21	21–22	22–23
PIPE TYPE	PIPE CLASS 3	PIPE CLASS 3	PIPE CLASS 3	PIPE CLASS 3	PIPE CLASS 3	PIPE CLASS 3
DESIGN FLOW (m3/s)	0.399	0.232	0.226	0.136	0.065	0.032
CAPACITY (m3/s)	0.485	0.255	0.263	0.169	0.111	0.099
AT GRADE VELOCITY (m/s)	1.72	1.6	1.66	2.4	1.57	1.39
NOMINAL PIPE SIZE (mm)	600Ø	450Ø	450Ø	300Ø	300Ø	300Ø
GRADE	1 in 200	1 in 160	1 in 150	1 in 43.2	1 in 100	1 in 127
(Reach Length)	(24.66)	(24.99)	(52.26)	(10.59)	(60.18)	(68.95)

Pit	17	18	19	20	21	22	23
DEPTH TO INVERT	2.03 / 2.00	1.99 / 1.92	1.89 / 1.84	1.95 / 1.88	1.83 / 1.78	1.85 / 1.80	1.80
HYDRAULIC GRADE LINE	45.40	45.48 / 45.51	45.64 / 45.68	45.93 / 46.01	46.17 / 46.30	46.51 / 46.58	46.71 / 46.78
INVERT LEVEL	44.05 / 44.09	44.21 / 44.28	44.44 / 44.49	44.84 / 44.91	45.16 / 45.21	45.81 / 45.86	46.41
FINISHED SURFACE LEVELS	46.08	46.20	46.33	46.79	46.99	47.66	48.21
EXISTING SURFACE LEVEL	46.15	46.43	46.71	46.77	46.76	47.35	48.04
CHAINAGE	324.08	348.73	373.72	425.98	436.57	496.75	565.70

Branch lines

Reach	14–24	16–25	19–26	20–27
PIPE TYPE	PIPE CLASS 3	PIPE CLASS 3	PIPE CLASS 3	PIPE CLASS 3
DESIGN FLOW (m3/s)	0.004	0.006	0.007	0.078
CAPACITY (m3/s)	0.686	0.139	0.144	0.099
AT GRADE VELOCITY (m/s)	3.17	1.96	2.04	0.9
NOMINAL PIPE SIZE (mm)	525Ø	300Ø	300Ø	375Ø
GRADE	1 in 50	1 in 64.3	1 in 59.4	1 in 400
DATUM	37.0	37.0	38.0	38.0
DEPTH TO INVERT	1.94 / 1.86 — 1.74	1.99 / 1.81 — 1.65	1.89 / 1.81 — 1.67	1.95 / 1.90 — 2.09
HYDRAULIC GRADE LINE	45.26 / 45.28 — 45.28	45.33 / 45.35 — 45.35	45.64 / 45.68 — 45.68	45.93 / 46.01 — 46.04 / 46.04
INVERT LEVEL	43.87 / 43.95 — 44.12	43.97 / 44.16 — 44.29	44.44 / 44.52 — 44.66	44.84 / 44.89 — 44.94
FINISHED SURFACE LEVELS	45.81 — 45.86	45.96 — 45.94	46.33 — 46.33	46.79 — 47.03
EXISTING SURFACE LEVEL	45.45 — 45.75	46.19 — 45.96	46.71 — 46.57	46.77 — 46.76
CHAINAGE	0.00 — 8.60	0.00 — 8.72	0.00 — 8.60	0.00 — 19.90
(Reach Length)	(8.60)	(8.72)	(8.60)	(19.90)

AS CONSTRUCTED PLANS
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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-17	17 of 33	2

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-17.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:39:18 PM

CRUSHED ROCK BACKFILL
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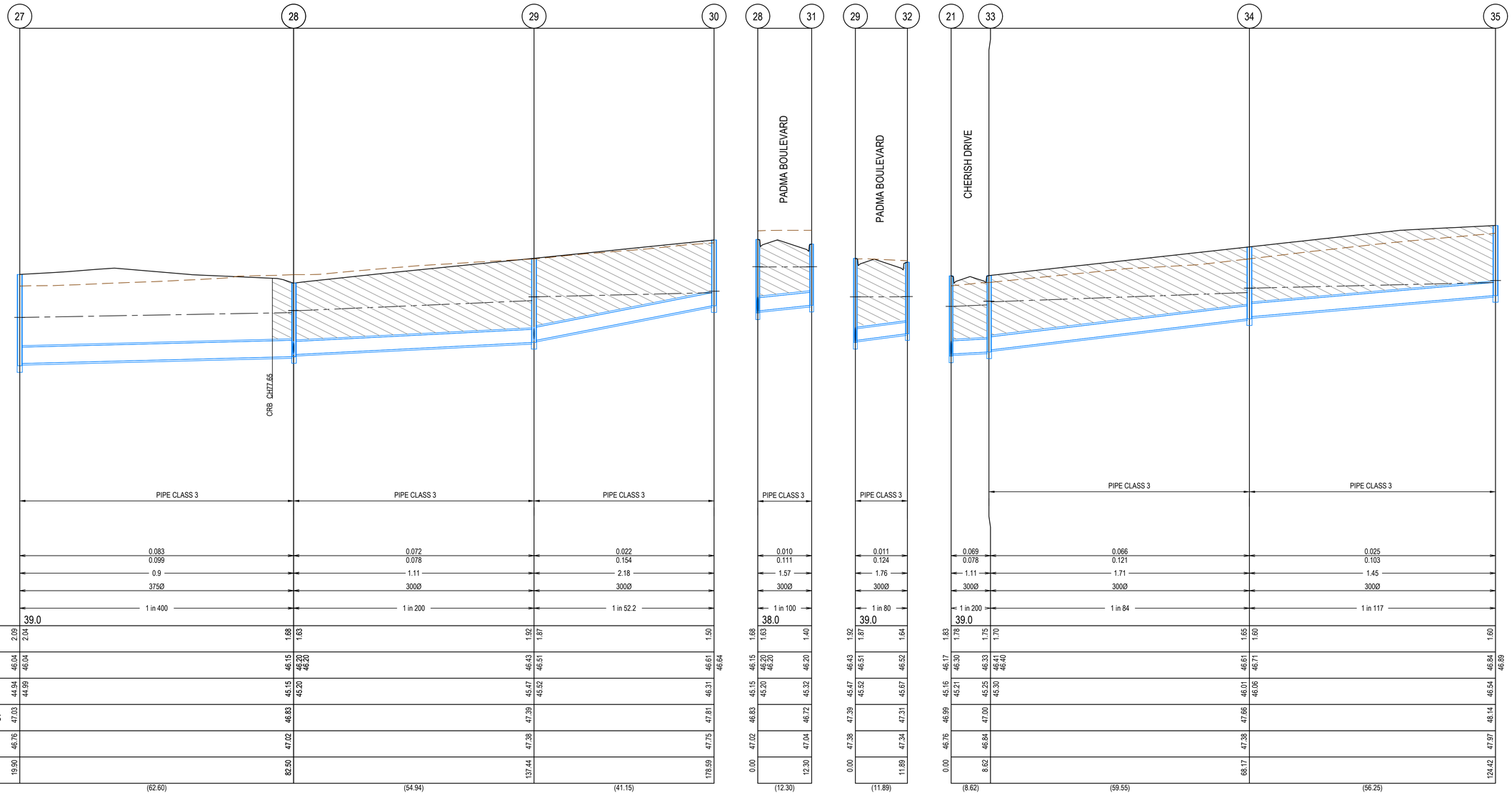

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

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0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 3

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-18	18 of 33	2

CRUSHED ROCK BACKFILL
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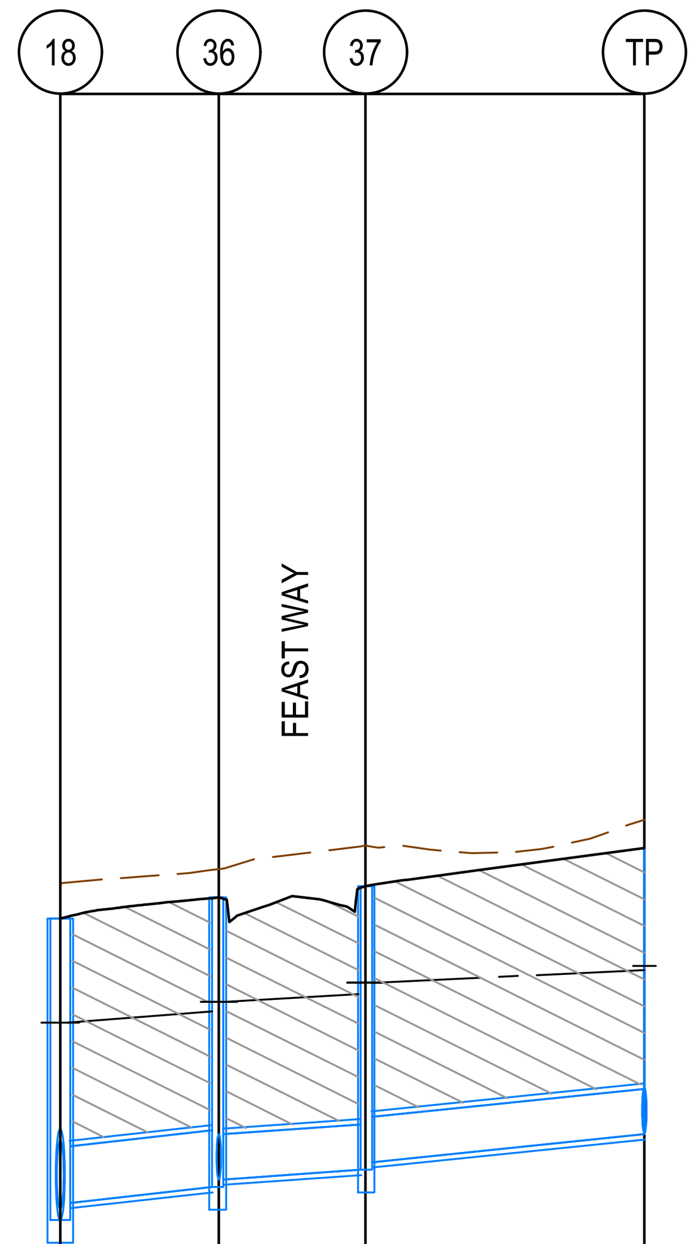
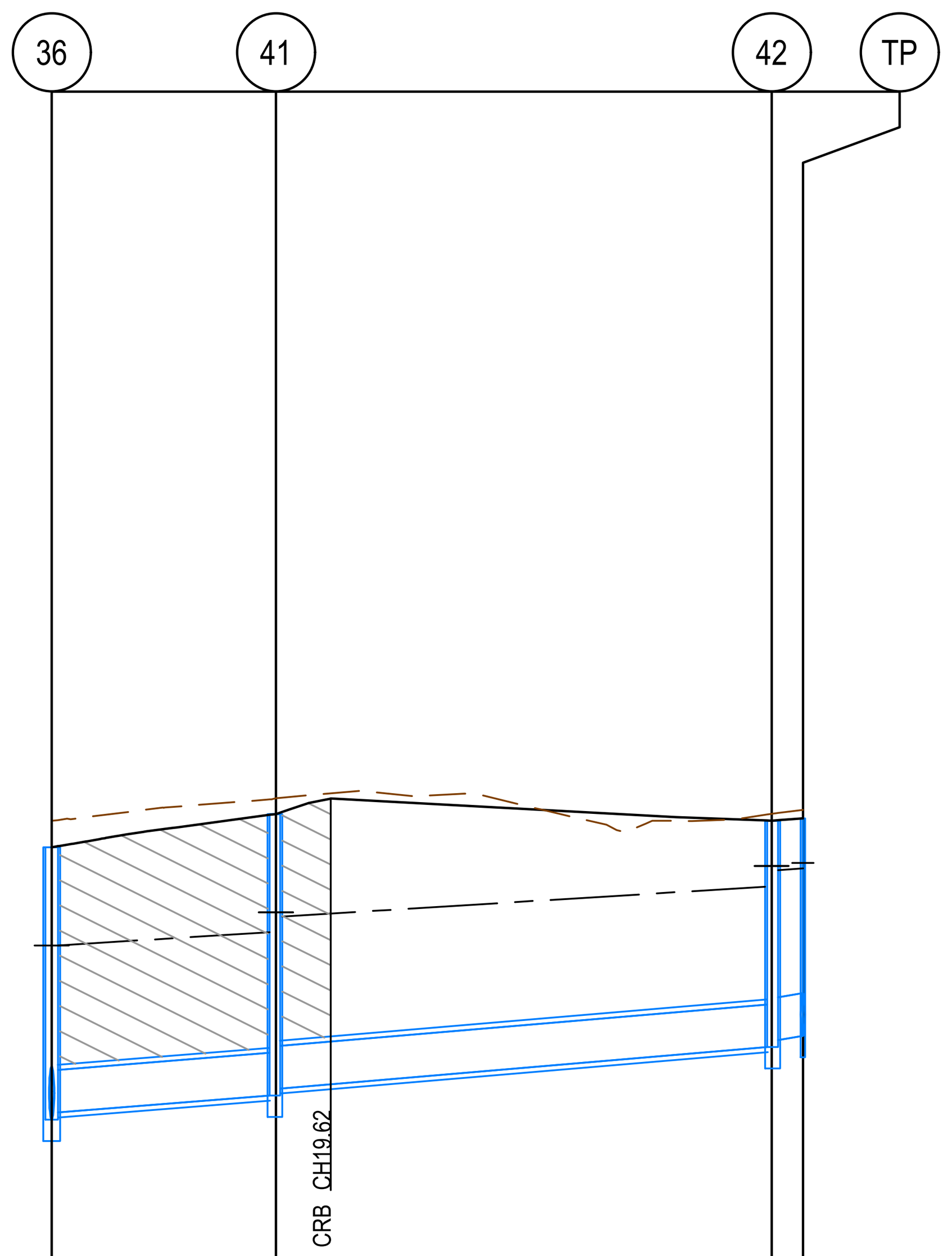


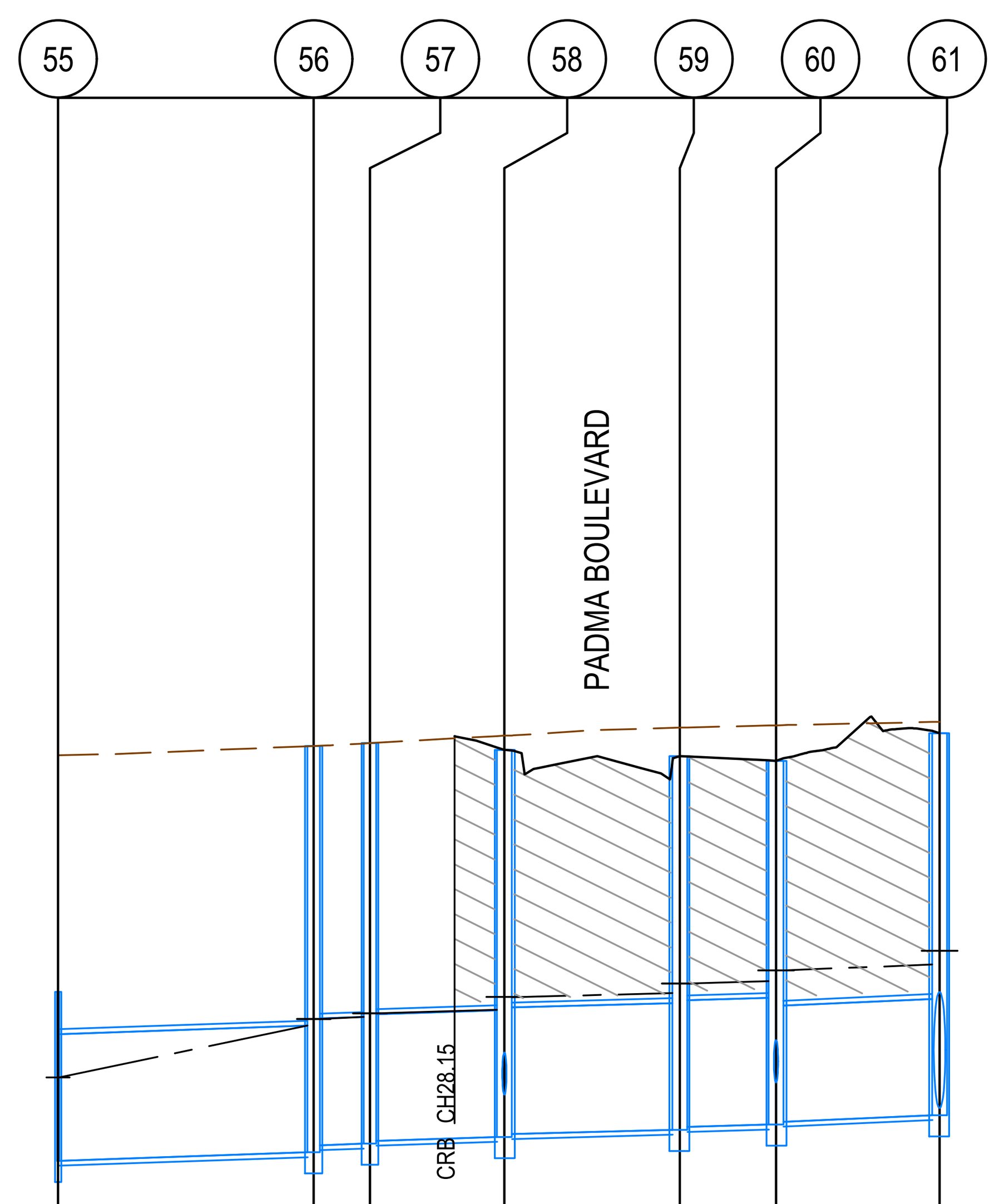
		18–36	36–37	37–TP	
PIPE CLASS		PIPE CLASS 3	PIPE CLASS 3	PIPE CLASS 3	
DESIGN FLOW (m3/s)		0.168	0.080	0.075	
CAPACITY (m3/s)		0.200	0.090	0.111	
AT GRADE VELOCITY (m/s)		1.81	1.28	1.57	
NOMINAL PIPE SIZE (mm) / PIPE TYPE		375Ø	300Ø	300Ø	
GRADE		1 in 100	1 in 150	1 in 100	
DATUM		38.0			

	18 (in)	18 (out)	36 (in)	36 (out)	37 (in)	37 (out)	TP (in)	TP
DEPTH TO INVERT	1.99	1.88	1.91	1.86	1.87	1.82	1.89	
HYDRAULIC GRADE LINE	45.48	45.51	45.59	45.65	45.70	45.78	45.86	45.89
INVERT LEVEL	44.21	44.32	44.43	44.48	44.54	44.59	44.78	
FINISHED SURFACE LEVELS	46.20		46.34		46.42		46.67	
EXISTING SURFACE LEVEL	46.43		46.53		46.69		46.85	
CHAINAGE	0.00		10.49		20.17		38.62	
(Reach Length)		(10.49)		(9.68)		(18.45)		



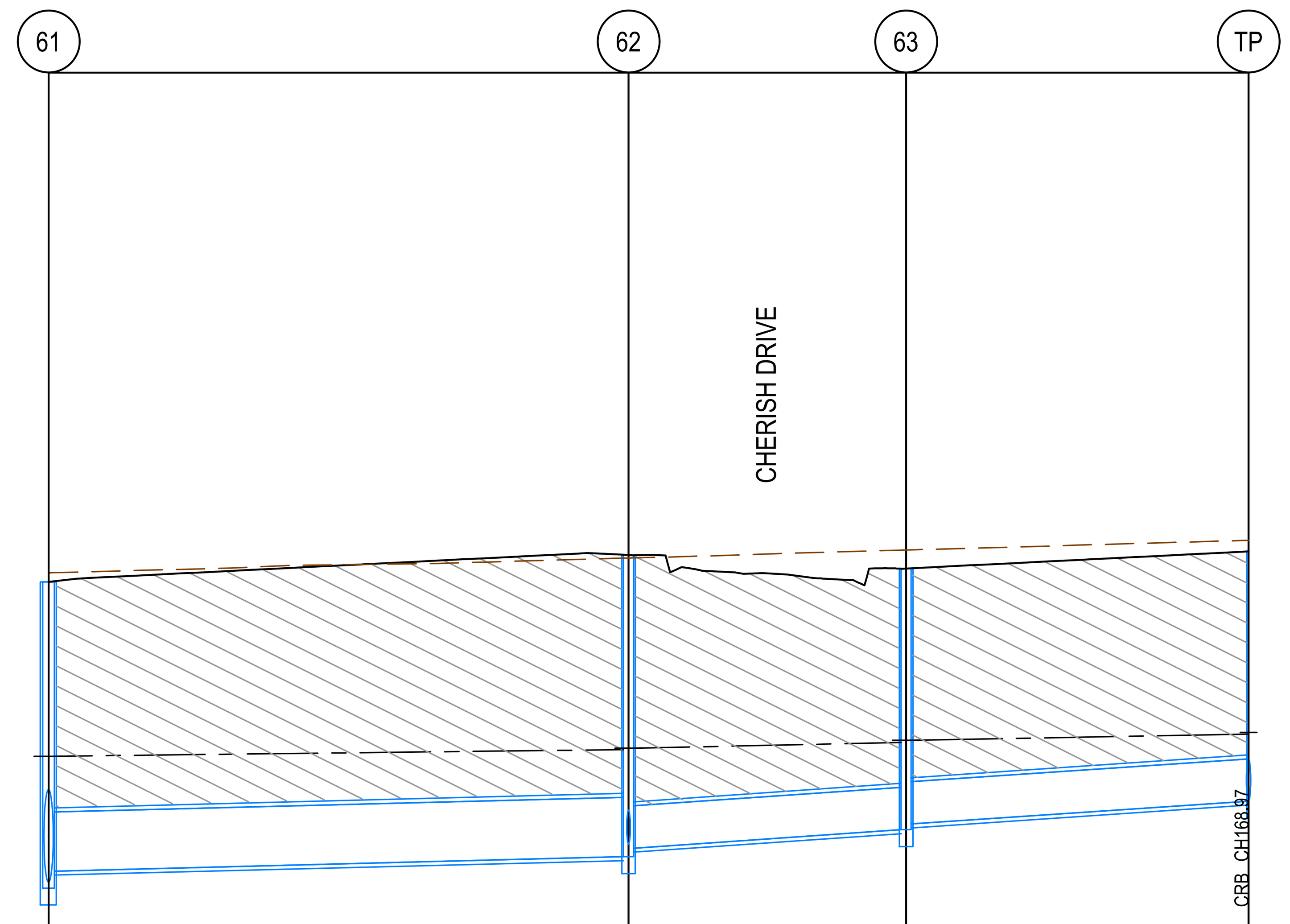
		36–41	41–42	42–TP	
PIPE CLASS		PIPE CLASS 3	PIPE CLASS 3		
DESIGN FLOW (m3/s)		0.084	0.086	0.086	
CAPACITY (m3/s)		0.096	0.101	0.128	
AT GRADE VELOCITY (m/s)		1.36	1.43	1.81	
NOMINAL PIPE SIZE (mm) / PIPE TYPE		300Ø	300Ø	300Ø	
GRADE		1 in 132	1 in 120	1 in 75.4	
DATUM		38.0			

	36 (in)	36 (out)	41 (in)	41 (out)	42 (in)	42 (out)	TP (in)	TP
DEPTH TO INVERT	1.91	1.86	1.98	1.93	1.59	1.54	1.53	
HYDRAULIC GRADE LINE	45.59	45.65	45.74	45.88 45.85	46.06	46.21 46.18	46.19	46.23
INVERT LEVEL	44.43	44.48	44.60	44.65	44.94	44.99	45.02	
FINISHED SURFACE LEVELS	46.34		46.57		46.53		46.54	
EXISTING SURFACE LEVEL	46.53		46.69		46.58		46.60	
CHAINAGE	0.00		15.77		50.62		52.82	
(Reach Length)		(15.77)		(34.85)		(2.20)		



		55–56	56–57	57–58	58–59	59–60	60–61	
PIPE CLASS			PIPE CLASS 3	PIPE CLASS 3	PIPE CLASS 3	PIPE CLASS 3		
DESIGN FLOW (m3/s)		1.003	1.004	1.006	0.958	0.960	0.941	
CAPACITY (m3/s)		1.144	1.061	1.061	0.989	0.989	1.006	
AT GRADE VELOCITY (m/s)		1.8	1.67	1.67	1.55	1.56	1.88	
NOMINAL PIPE SIZE (mm) / PIPE TYPE		900Ø	900Ø	900Ø	900Ø	900Ø	825Ø	
GRADE		1 in 300	1 in 350	1 in 350	1 in 400	1 in 400	1 in 250	
DATUM		39.0						

	55 (in)	55 (out)	56 (in)	56 (out)	57 (in)	57 (out)	58 (in)	58 (out)	59 (in)	59 (out)	60 (in)	60 (out)	61 (in)	61
DEPTH TO INVERT	1.20	1.20	2.89	2.84	2.84	2.82	2.75	2.73	2.65	2.63	2.58	2.56	2.71	
HYDRAULIC GRADE LINE	45.69		46.06	46.11	46.12	46.15	46.17	46.26	46.29	46.36	46.38	46.45	46.49	46.59
INVERT LEVEL	45.10	45.10	45.16	45.21	45.22	45.24	45.27	45.29	45.32	45.34	45.36	45.38	45.42	
FINISHED SURFACE LEVELS	46.30		48.05		48.07		48.02		47.97		47.94		48.14	
EXISTING SURFACE LEVEL	47.98		48.05		48.07		48.12		48.18		48.19		48.22	
CHAINAGE	0.00		18.16		22.15		31.70		44.17		51.00		62.62	
(Reach Length)		(18.16)		(4.00)		(9.55)		(12.47)		(6.83)		(11.62)		



		61–62	62–63	63–TP	
PIPE CLASS		PIPE CLASS 3	PIPE CLASS 3	PIPE CLASS 3	
DESIGN FLOW (m3/s)		0.160	0.091	0.084	
CAPACITY (m3/s)		0.241	0.163	0.163	
AT GRADE VELOCITY (m/s)		1.11	1.48	1.48	
NOMINAL PIPE SIZE (mm) / PIPE TYPE		525Ø	375Ø	375Ø	
GRADE		1 in 400	1 in 150	1 in 150	
DATUM		39.0			

	61 (in)	61 (out)	62 (in)	62 (out)	63 (in)	63 (out)	TP (in)	TP
DEPTH TO INVERT	2.71	2.56	2.67	2.60	2.31	2.26	2.21	
HYDRAULIC GRADE LINE	46.50	46.59	46.65	46.66	46.71	46.73	46.79	46.80
INVERT LEVEL	45.42	45.57	45.70	45.78	45.94	45.99	46.19	
FINISHED SURFACE LEVELS	48.14		48.37		48.26		48.41	
EXISTING SURFACE LEVEL	48.22		48.35		48.42		48.51	
CHAINAGE	62.62		114.02		138.62		168.97	
(Reach Length)		(51.40)		(24.60)		(30.35)		

AS CONSTRUCTED PLANS

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
0 0.5 1 2
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GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 4

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-19	19 of 33	2

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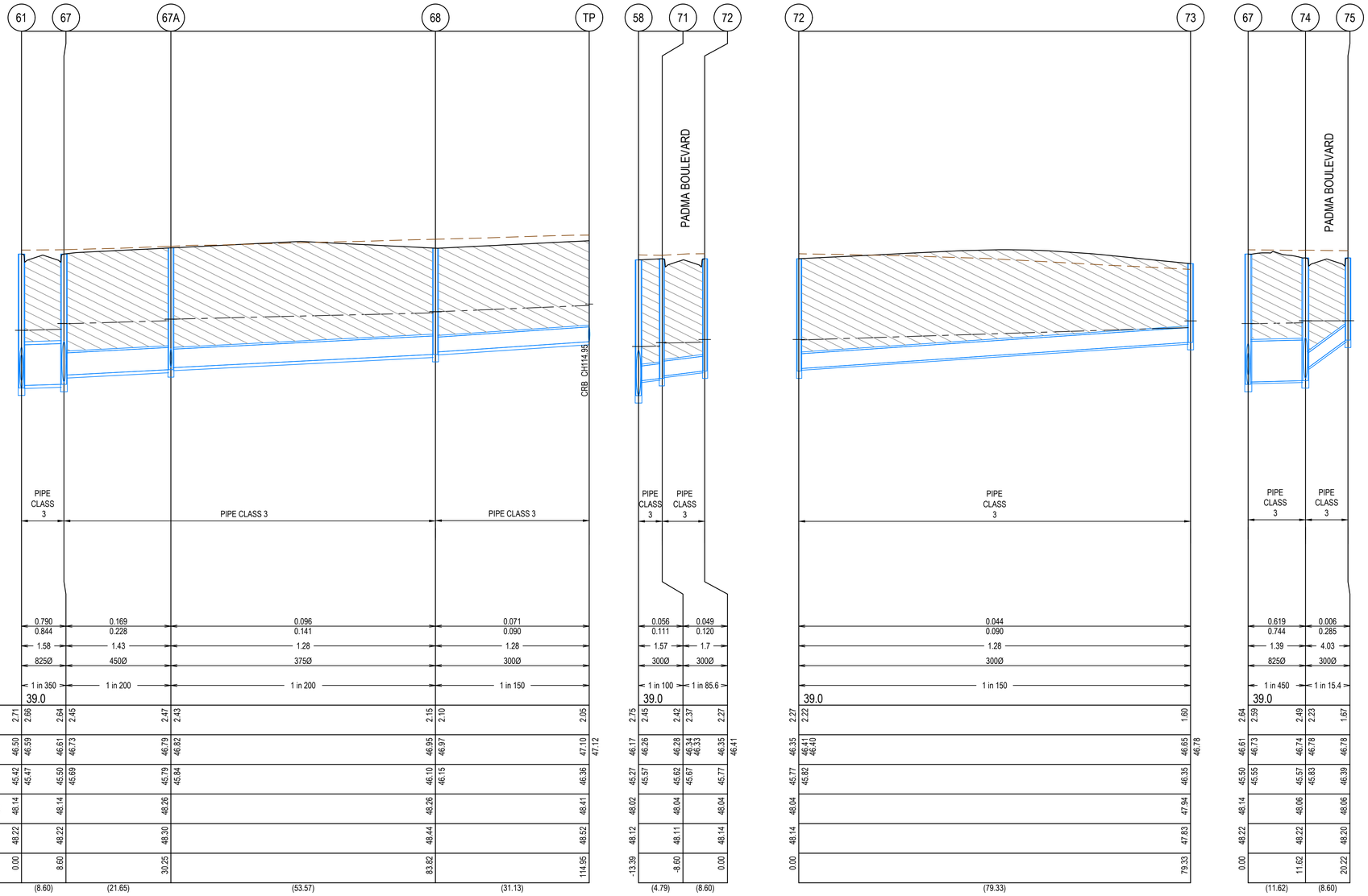

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50
SCALE AS SHOWN AT A1

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GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 5

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-20	20 of 33	1

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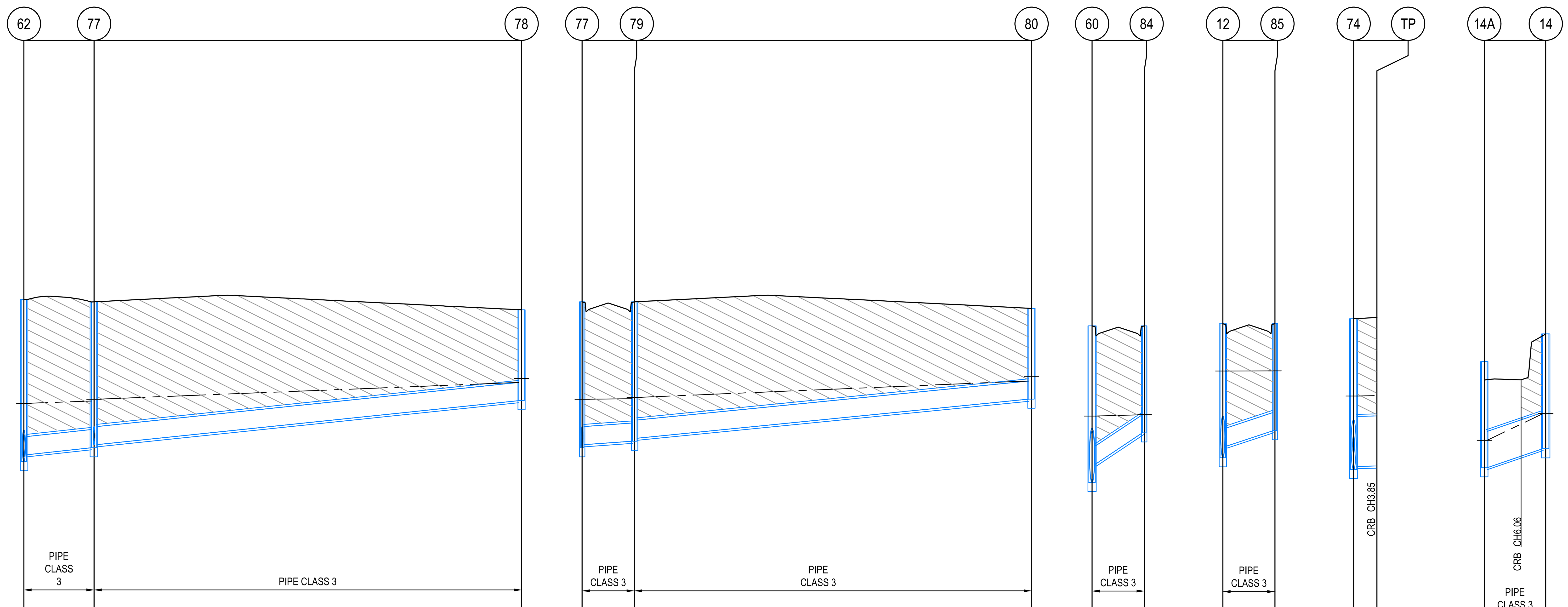

Section 62 – 77 – 78

	62		77		78	
Pipe class	PIPE CLASS 3		PIPE CLASS 3			
DESIGN FLOW (m3/s)	0.064		0.030			
CAPACITY (m3/s)	0.111		0.113			
AT GRADE VELOCITY (m/s)	1.57		1.59			
NOMINAL PIPE SIZE (mm) / PIPE TYPE	300Ø		300Ø			
GRADE	1 in 100		1 in 97.1			
DATUM	39.0					
DEPTH TO INVERT	2.67	2.56	2.41	2.36	1.50	
HYDRAULIC GRADE LINE	46.65	46.66	46.70	46.73	47.01	47.07
INVERT LEVEL	45.70	45.81	45.93	45.98	46.71	
FINISHED SURFACE LEVELS	48.37		48.34		48.21	
EXISTING SURFACE LEVEL	48.35		48.35		48.05	
CHAINAGE	0.00		11.58		82.13	
(Reach Length)	(11.58)		(70.55)			

Section 77 – 79 – 80

	77		79		80	
Pipe class	PIPE CLASS 3		PIPE CLASS 3			
DESIGN FLOW (m3/s)	0.034		0.033			
CAPACITY (m3/s)	0.090		0.110			
AT GRADE VELOCITY (m/s)	1.28		1.56			
NOMINAL PIPE SIZE (mm) / PIPE TYPE	300Ø		300Ø			
GRADE	1 in 150		1 in 102			
DATUM	39.0					
DEPTH TO INVERT	2.41	2.36	2.30	2.25	1.50	
HYDRAULIC GRADE LINE	46.70	46.73	46.74	46.76	47.03	47.11
INVERT LEVEL	45.93	45.98	46.04	46.09	46.73	
FINISHED SURFACE LEVELS	48.34		48.34		48.23	
EXISTING SURFACE LEVEL	48.35		48.38		48.07	
CHAINAGE	0.00		8.60		74.16	
(Reach Length)	(8.60)		(65.56)			

Section 60 – 84

	60		84
Pipe class	PIPE CLASS 3		
DESIGN FLOW (m3/s)	0.003		
CAPACITY (m3/s)	0.274		
AT GRADE VELOCITY (m/s)	3.87		
NOMINAL PIPE SIZE (mm) / PIPE TYPE	300Ø		
GRADE	1 in 16.6		
DATUM	39.0		
DEPTH TO INVERT	2.58	2.28	1.77
HYDRAULIC GRADE LINE	46.38	46.45	46.48
INVERT LEVEL	45.36	45.66	46.18
FINISHED SURFACE LEVELS	47.94		47.94
EXISTING SURFACE LEVEL	48.19		48.17
CHAINAGE	0.00		8.60
(Reach Length)	(8.60)		

Section 12 – 85

	12		85
Pipe class	PIPE CLASS 3		
DESIGN FLOW (m3/s)	0.007		
CAPACITY (m3/s)	0.194		
AT GRADE VELOCITY (m/s)	2.74		
NOMINAL PIPE SIZE (mm) / PIPE TYPE	300Ø		
GRADE	1 in 33.1		
DATUM	37.0		
DEPTH TO INVERT	2.21	2.02	1.77
HYDRAULIC GRADE LINE	45.16	45.20	45.20
INVERT LEVEL	43.76	43.95	44.21
FINISHED SURFACE LEVELS	45.97		45.98
EXISTING SURFACE LEVEL	45.91		46.41
CHAINAGE	0.00		8.60
(Reach Length)	(8.60)		

Section 74 – TP

	74		TP	
DESIGN FLOW (m3/s)	0.613			
CAPACITY (m3/s)	0.744			
AT GRADE VELOCITY (m/s)	1.39			
NOMINAL PIPE SIZE (mm) / PIPE TYPE	825Ø			
GRADE	1 in 450			
DATUM	39.0			
DEPTH TO INVERT	2.49	2.44	2.45	
HYDRAULIC GRADE LINE	46.74	46.78	46.79	47.16
INVERT LEVEL	45.57	45.62	45.63	
FINISHED SURFACE LEVELS	48.06		48.08	
EXISTING SURFACE LEVEL	48.22		48.23	
CHAINAGE	0.00		3.85	
(Reach Length)	(3.85)			

Section 14A – 14

	14A		14
Pipe class	PIPE CLASS 3		
DESIGN FLOW (m3/s)	0.993		
CAPACITY (m3/s)	1.080		
AT GRADE VELOCITY (m/s)	3.82		
NOMINAL PIPE SIZE (mm) / PIPE TYPE	600Ø		
GRADE	1 in 32.4		
DATUM	37.0		
DEPTH TO INVERT	1.75	1.75	1.90
HYDRAULIC GRADE LINE	44.05		44.49
INVERT LEVEL	43.60	43.60	43.91
FINISHED SURFACE LEVELS	45.35		45.81
EXISTING SURFACE LEVEL	45.07		45.45
CHAINAGE	0.00		10.14
(Reach Length)	(10.14)		

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GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Drainage Longitudinal Sections - 6

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-21	21 of 33	2

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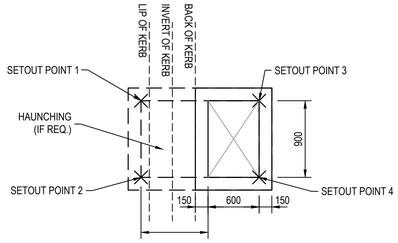
PIT SCHEDULE

PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
1	OUTLET			1200	42.55			44.1	0		
2	JUNCTION PIT	1350	900	1200	43	1200	42.6	46.217	3.617	EDCM 607	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
3	GPT	1350	900	1200	43.093	1200	43.073	46.101	3.028	2360E-01-29	REFER TO DRAWING 2360E-01-30 FOR GPT DETAIL.
4	JUNCTION PIT	1350	1050	825	43.157	1200	43.107	46.118	3.011	EDCM 607	REVERSE BACK TO SIDE ENTRY PIT IN STAGE 3. PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
5	DOUBLE JUNCTION PIT	1200	900	825	43.225	825	43.205	46.159	2.954	EDCM 607	REVERSE BACK TO SIDE ENTRY PIT IN STAGE 3. PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
6	TANGENT POINT			825	43.293	825	43.293	46.284	2.991		
7	TANGENT POINT			825	43.36	825	43.36	46.412	3.052		
8	JUNCTION PIT	1050	900	825	43.417	825	43.397	46.487	3.089	EDCM 607	REVERSE BACK TO SIDE ENTRY PIT IN STAGE 3. PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
9	JUNCTION PIT	1050	900	825	43.562	825	43.542	46.327	2.785	EDCM 607	REVERSE BACK TO SIDE ENTRY PIT IN STAGE 3. PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
10	JUNCTION PIT	1050	900	675	43.695	825	43.675	46.093	2.418	EDCM 607	REVERSE BACK TO SIDE ENTRY PIT IN STAGE 3. PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607. CONSTRUCT DEFLECTOR IN PIT FLOOR.
11	SIDE ENTRY PIT	900	900	675	43.737	675	43.717	46.051	2.334	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
12	SIDE ENTRY PIT	900	900	675	43.785	675	43.765	45.975	2.21	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
13	SIDE ENTRY PIT	900	900	675	43.842	675	43.822	45.859	2.037	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
14	SIDE ENTRY PIT	900	900	675	43.891	675	43.871	45.808	1.937	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
14A	GRATED ENTRY PIT	1200	900	600	43.6			45.35	1.345		
14	TRIPLE SIDE ENTRY PIT	900	900			600	43.913	45.808	1.895		PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
15	DOUBLE SIDE ENTRY PIT	900	900	675	43.927	675	43.907	45.837	1.931	EDCM 602	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607. CONSTRUCT DEFLECTOR IN PIT FLOOR.
16	SIDE ENTRY PIT	900	900	675	43.988	675	43.968	45.961	1.993	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
17	SIDE ENTRY PIT	900	900	600	44.086	675	44.049	46.082	2.033	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
18	SIDE ENTRY PIT	900	1000	450	44.285	600	44.21	46.201	1.992	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
19	SIDE ENTRY PIT	750	900	450	44.491	450	44.441	46.326	1.885	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
20	SIDE ENTRY PIT	900	900	300	44.914	450	44.839	46.793	1.953	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
21	SIDE ENTRY PIT	600	900	300	45.209	300	45.159	46.994	1.835	EDCM 601	
22	SIDE ENTRY PIT	600	900	300	45.861	300	45.811	47.656	1.845	EDCM 601	
23	SIDE ENTRY PIT	600	900			300	46.405	48.208	1.802	EDCM 601	
24	DOUBLE SIDE ENTRY PIT	600	900			525	44.118	45.858	1.74	EDCM 602	
25	SIDE ENTRY PIT	600	900			300	44.291	45.936	1.645	EDCM 601	
26	SIDE ENTRY PIT	600	900			300	44.661	46.326	1.666	EDCM 601	
27	JUNCTION PIT	600	900	375	44.99	375	44.94	47.026	2.086	EDCM 605	
28	SIDE ENTRY PIT	600	900	300	45.196	375	45.146	46.827	1.681	EDCM 603	
29	SIDE ENTRY PIT	600	900	300	45.52	300	45.47	47.395	1.925	EDCM 603	
30	SIDE ENTRY PIT	600	900			300	46.308	47.813	1.505	EDCM 603	
31	SIDE ENTRY PIT	600	900			300	45.319	46.72	1.401	EDCM 603	
32	SIDE ENTRY PIT	600	900			300	45.669	47.305	1.636	EDCM 603	
33	SIDE ENTRY PIT	600	900	300	45.302	300	45.252	47.001	1.749	EDCM 601	
34	SIDE ENTRY PIT	600	900	300	46.061	300	46.011	47.656	1.645	EDCM 601	
35	SIDE ENTRY PIT	600	900			300	46.542	48.144	1.602	EDCM 601	
36	SIDE ENTRY PIT	600	900	300	44.477	375	44.427	46.341	1.914	EDCM 601	
37	SIDE ENTRY PIT	600	900	300	44.592	300	44.542	46.415	1.874	EDCM 601	
41	SIDE ENTRY PIT	600	900	300	44.646	300	44.596	46.575	1.978	EDCM 601	
42	JUNCTION PIT	600	900	300	44.987	300	44.937	46.527	1.591	EDCM 605	
55	OUTLET			900	45.1			46.3	0		
56	JUNCTION PIT	1050	900	900	45.211	900	45.161	48.046	2.886	EDCM 607	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
57	JUNCTION PIT	1050	900	900	45.242	900	45.222	48.066	2.845	EDCM 607	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
58	SIDE ENTRY PIT	1050	1050	900	45.289	900	45.269	48.018	2.749	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
59	SIDE ENTRY PIT	1050	1050	900	45.34	900	45.32	47.975	2.655	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
60	DOUBLE SIDE ENTRY PIT	1050	1050	825	45.377	900	45.357	47.941	2.583	EDCM 602	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
61	SIDE ENTRY PIT	1050	1050	525	45.574	825	45.424	48.137	2.713	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
62	SIDE ENTRY PIT	600	900	375	45.777	525	45.702	48.375	2.673	EDCM 601	
63	DOUBLE SIDE ENTRY PIT	600	900	375	45.991	375	45.941	48.255	2.314	EDCM 602	
67	SIDE ENTRY PIT	1050	1050	450	45.686	825	45.499	48.137	2.638	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
67A	SIDE ENTRY PIT	600	900	375	45.836	450	45.794	48.262	2.467	EDCM 601	
68	DOUBLE SIDE ENTRY PIT	600	900	300	46.154	375	46.104	48.256	2.152	EDCM 602	
71	SIDE ENTRY PIT	600	900	300	45.667	300	45.617	48.042	2.425	EDCM 601	
72	SIDE ENTRY PIT	600	900	300	45.818	300	45.768	48.042	2.274	EDCM 601	
73	SIDE ENTRY PIT	600	900			300	46.347	47.942	1.595	EDCM 603	
74	SIDE ENTRY PIT	1050	1050	300	45.834	825	45.571	48.059	2.488	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM607
75	SIDE ENTRY PIT	600	900			300	46.393	48.059	1.666	EDCM 601	
77	SIDE ENTRY PIT	600	900	300	45.981	300	45.931	48.338	2.407	EDCM 601	
78	SIDE ENTRY PIT	600	900			300	46.708	48.205	1.498	EDCM 601	
79	SIDE ENTRY PIT	600	900	300	46.088	300	46.038	48.338	2.3	EDCM 601	
80	SIDE ENTRY PIT	600	900			300	46.732	48.23	1.498	EDCM 601	
84	DOUBLE SIDE ENTRY PIT	600	900			300	46.175	47.941	1.765	EDCM 602	
85	SIDE ENTRY PIT	900	600			300	44.212	45.978	1.766	EDCM 601	



KERB PIT SETOUT POINT DETAIL
NOT TO SCALE

Pit 4		
	E	N
Setout Point 1	296267.19	5811838.96
Setout Point 2	296267.33	5811840.31
Setout Point 3	296266.15	5811839.07
Setout Point 4	296266.28	5811840.41

Pit 5		
	E	N
Setout Point 1	296285.40	5811842.15
Setout Point 2	296287.47	5811842.51
Setout Point 3	296285.19	5811843.33
Setout Point 4	296287.26	5811843.70

Pit 9		
	E	N
Setout Point 1	296399.93	5811830.33
Setout Point 2	296400.69	5811829.85
Setout Point 3	296400.50	5811831.22
Setout Point 4	296401.26	5811830.73

Pit 11		
	E	N
Setout Point 1	296442.43	5811803.08
Setout Point 2	296441.54	5811803.25
Setout Point 3	296442.25	5811802.19
Setout Point 4	296441.37	5811802.37

Pit 57		
	E	N
Setout Point 1	296712.64	5811959.74
Setout Point 2	296712.74	5811960.79
Setout Point 3	296713.54	5811959.66
Setout Point 4	296713.64	5811960.70

Pit 59		
	E	N
Setout Point 1	296696.70	5811969.96
Setout Point 2	296696.80	5811971.01
Setout Point 3	296695.65	5811970.07
Setout Point 4	296695.76	5811971.11

Pit 74		
	E	N
Setout Point 1	296699.90	5812001.23
Setout Point 2	296698.85	5812001.33
Setout Point 3	296700.01	5812002.27
Setout Point 4	296698.96	5812002.38

Tangent 6		
	E	N
Setout Point 1	296312.57	5811847.50

Tangent 7		
	E	N
Setout Point 1	296339.18	5811847.90

Pit 8		
	E	N
Setout Point 1	296353.45	5811845.92
Setout Point 2	296354.35	5811845.82
Setout Point 3	296353.56	5811846.96
Setout Point 4	296354.46	5811846.87

Pit 10		
	E	N
Setout Point 1	296440.68	5811810.75
Setout Point 2	296441.56	5811810.55
Setout Point 3	296440.91	5811811.77
Setout Point 4	296441.79	5811811.57

Pit 56		
	E	N
Setout Point 1	296716.62	5811959.36
Setout Point 2	296716.72	5811960.41
Setout Point 3	296717.52	5811959.27
Setout Point 4	296717.62	5811960.32

Pit 58		
	E	N
Setout Point 1	296702.78	5811960.69
Setout Point 2	296702.89	5811961.73
Setout Point 3	296703.83	5811960.59
Setout Point 4	296703.94	5811961.63

Pit 60		
	E	N
Setout Point 1	296697.25	5811975.41
Setout Point 2	296696.21	5811975.52
Setout Point 3	296697.50	5811977.80
Setout Point 4	296696.45	5811977.91

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

SCALE AS SHOWN AT A1

SMEC
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Ph 03 9514 1500

GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Pit Schedule
General Notes & Details

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-22	22 of 33	5

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-22.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:41:31 PM

NOTES
1. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPM'S AT MAX 6m SPACING.
2. RRPMs TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL MANUAL VOL 2.
3. ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

AS CONSTRUCTED PLANS

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

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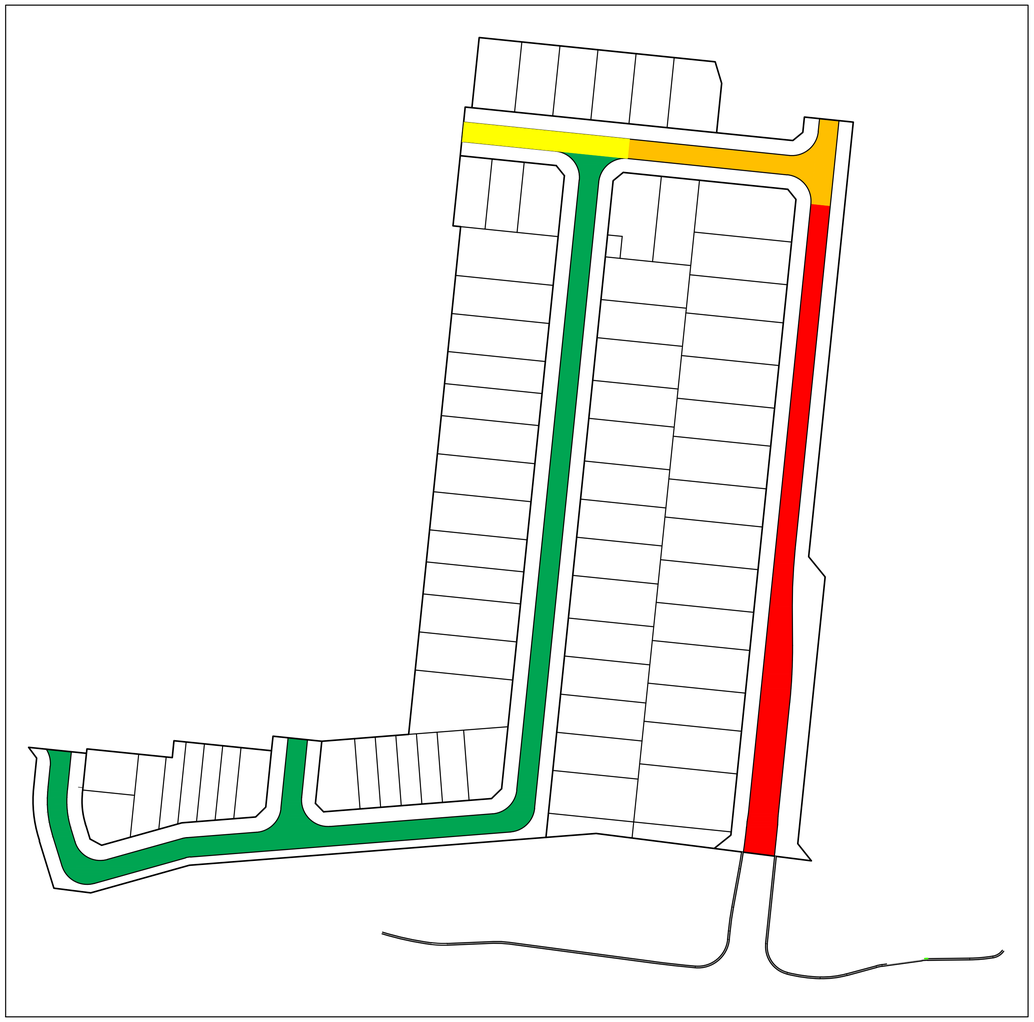
GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Signage & Linemarking Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-23	23 of 33	1

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-23.dwg PRINTED BY: ON15056 on 23/04/2020 at 09:49:36 AM

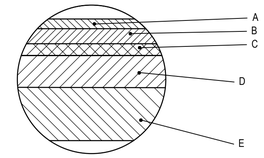


600mm PADMA BOULEVARD (TYPE D)		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A WEARING COURSE	40	SIZE 14 TYPE N ASPHALT, CLASS 320 BINDER
B INTERMEDIATE COURSE	75	SIZE 20 TYPE SI ASPHALT, CLASS 320 BINDER
C BASE COURSE	75	SIZE 20 TYPE SI ASPHALT, CLASS 320 BINDER
D SUBBASE	160	SIZE 20 CLASS 3 CEMENT TREATED CRUSHED ROCK (3%). COMPACTED TO A MEAN DENSITY RATIO OF 96% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1
E CAPPING LAYER	250	TYPE A MATERIAL CBR ≥8%, SWELL ≤1.5% & PERMEABILITY $k \leq 1 \times 10^{-9}$m/s SUBGRADE (DESIGN CBR 2%). COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289,5.1.1

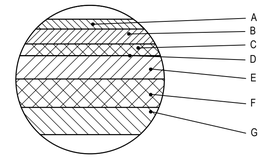
540mm REJOICE STREET (TYPE C)		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A WEARING COURSE	40	SIZE 14 TYPE N ASPHALT, CLASS 320 BINDER
B INTERMEDIATE COURSE	75	SIZE 20 TYPE SI ASPHALT, CLASS 320 BINDER
C BASE COURSE	75	SIZE 20 TYPE SF ASPHALT, CLASS 320 BINDER
D SUBBASE	100	SIZE 20 CLASS 3 CEMENT TREATED CRUSHED ROCK (3%), COMPACTED DEPTH. COMPACTED TO A MEAN DENSITY RATIO OF 96% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1
E CAPPING LAYER	250	TYPE A MATERIAL CBR ≥8%, SWELL ≤1.5% & PERMEABILITY $k \leq 1 \times 10^{-9}$m/s SUBGRADE (DESIGN CBR 2%). COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289,5.1.1

720mm REJOICE STREET (TYPE B)		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A WEARING COURSE	40	SIZE 14 TYPE N ASPHALT, CLASS 320 BINDER
B BASE COURSE	40	SIZE 14 TYPE HP ASPHALT, CLASS A10E BINDER
C SEALING LAYER	10	SIZE 10 SAMI S18RF
D BONDING LAYER		BITUMINOUS PRIME OR PRIMERSEAL
E BASE	110	SIZE 20 CLASS 2 FCR, COMPACTED DEPTH. COMPACTED TO A MEAN DENSITY RATIO OF 98% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1
F SUBBASE	270	SIZE 20 CLASS 3 FCR, COMPACTED DEPTH (PLACED AND COMPACTED IN TWO LAYERS). COMPACTED TO A MEAN DENSITY RATIO OF 97% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1
G CAPPING LAYER	250	TYPE A MATERIAL CBR ≥8%, SWELL ≤1.5% & PERMEABILITY $k \leq 1 \times 10^{-9}$m/s SUBGRADE (DESIGN CBR 2%). COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289,5.1.1

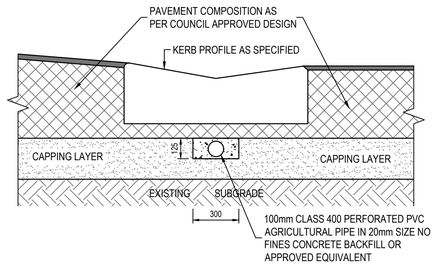
625mm CHERISH DRIVE & FEAST WAY PAVEMENT COMPOSITION (TYPE A)		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A WEARING COURSE	30	SIZE 10 TYPE N ASPHALT, CLASS 320 BINDER
B BASE COURSE	30	SIZE 10 TYPE N ASPHALT, CLASS 320 BINDER
C SEALING LAYER	10	SIZE 10 SAMI S18RF
D BONDING LAYER		BITUMINOUS PRIME OR PRIMERSEAL
E BASE	130	SIZE 20 CLASS 2 FCR, COMPACTED DEPTH. COMPACTED TO A MEAN DENSITY RATIO OF 98% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1
F SUBBASE	175	SIZE 20 CLASS 3 FCR, COMPACTED DEPTH. COMPACTED TO A MEAN DENSITY RATIO OF 97% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1
G CAPPING LAYER	250	TYPE A MATERIAL CBR ≥8%, SWELL ≤1.5% & PERMEABILITY $k \leq 1 \times 10^{-9}$m/s SUBGRADE (DESIGN CBR 2%). COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289,5.1.1



ASPHALT PAVEMENT COMPOSITION
KEY DIAGRAM 2

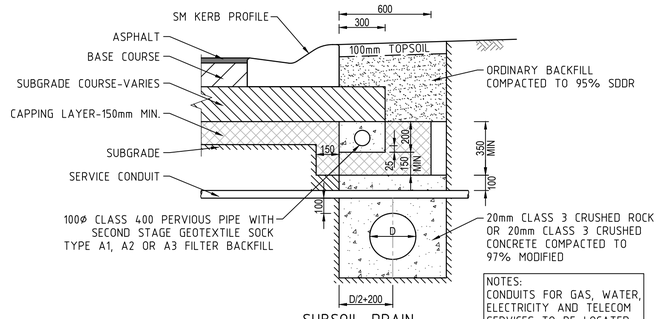


ASPHALT PAVEMENT COMPOSITION
KEY DIAGRAM 1



AG DRAIN (NO FINES)
N.T.S

THE PAVEMENT SHOULD COMPRISE ROAD BASE OR SUBBASE QUALITY MATERIALS SPREAD IN LAYERS NOT EXCEEDING 200mm LOOSE LAYER THICKNESS, MOISTURE CONDITIONED TO WITHIN ± 2% MODIFIED OPTIMUM MOISTURE CONTENT (OMC) AND COMPACTED TO A DRY DENSITY RATIO OF 98% MODIFIED, PLACES IN ACCORDANCE WITH VICROADS REQUIREMENT.



SUBSOIL DRAIN
(EXPANSIVE SOILS)
NOT TO SCALE

PAVEMENT NOTE
ALL PAVEMENT DESIGNS HAVE BEEN PROVIDED BY TONKIN & TAYLOR. SMEC IS NOT RESPONSIBLE FOR GEOTECHNICAL OR PAVEMENT RELATED DESIGNS AND IS NOT RESPONSIBLE FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THESE DESIGNS. THE PAVEMENT COMPOSITIONS SHOWN ON THIS DRAWING HAVE BEEN REPRODUCED FROM THE PAVEMENT REPORT MARIGOLD ESTATE, 1030 DOHERTHY'S ROAD, TARNEIT DOCUMENT 1008776.1000.V3 MAY 2019.
THIS DOCUMENT SHOULD BE REVIEWED BY THE CONTRACTOR TO ENSURE DESIGN HAS BEEN INTERPRETED CORRECTLY. A COPY OF THIS DOCUMENT WILL BE MADE AVAILABLE ON REQUEST.

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 10 20 40
Scale 1:1000
SCALE AS SHOWN AT A1

N

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GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Pavement Details

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-24	24 of 33	1

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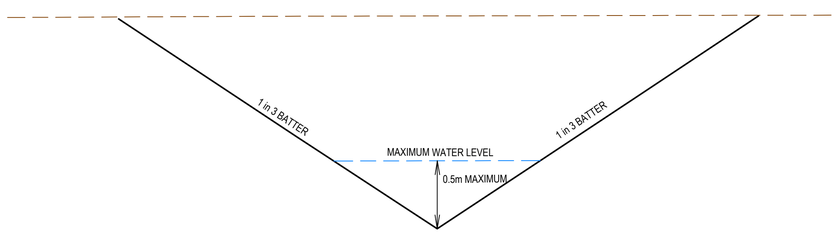

TYPICAL RETARDING BASIN CHANNEL CROSS SECTION DETAIL

0 1 2 4
0 0.5 1 2
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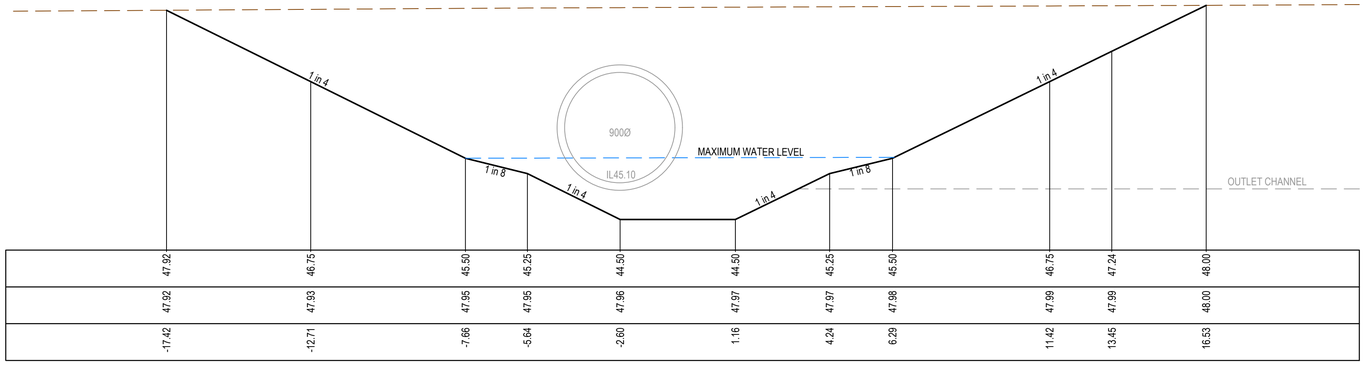
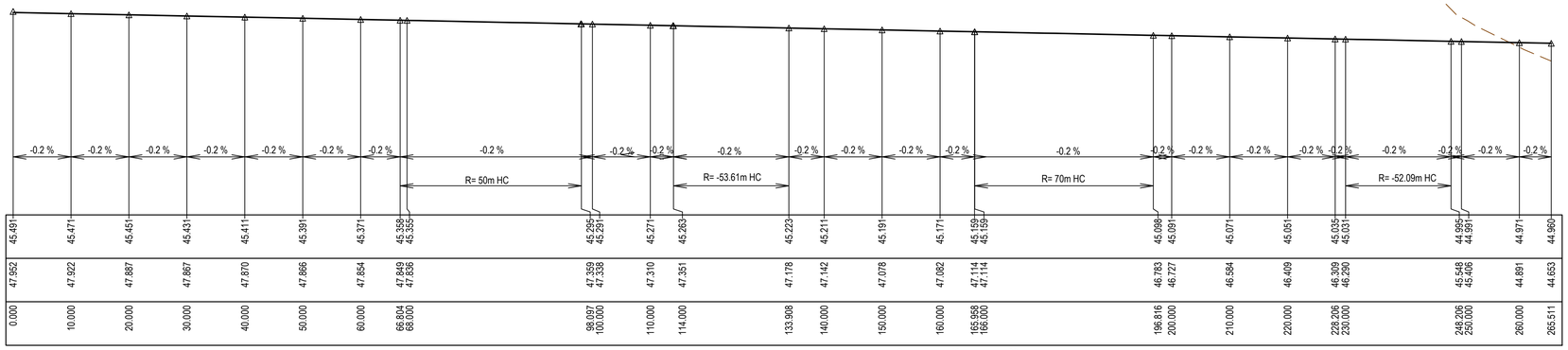


DATUM44.0												
DESIGN SURFACE	47.92	46.75	45.50	45.25	44.50	44.50	45.25	45.50	46.75	47.24	48.00	
EXISTING SURFACE	47.92	47.93	47.95	47.95	47.96	47.97	47.97	47.98	47.99	47.99	48.00	
OFFSET	-17.42	-12.71	-7.66	-5.64	-2.60	1.16	4.24	6.29	11.42	13.45	16.53	

TEMPORARY RETARDING BASIN SECTION A

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50



RETARDING BASIN CHANNEL LONGITUDINAL SECTION

0 5 10 20
0 0.5 1 2
Scale H1:500, V1:50

SYMBOLS AND GENERAL NOTES

EXISTING SURFACE
DESIGN LINE

WARNING

BEWARE OF UNDERGROUND SERVICES

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

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Environmental Management - ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

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Member of the Surbana Jurong Group

Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

Marigold - Stage 1
Wyndham City Council
Road and Drainage
Out Fall Drain Layout, Longitudinal Section & Cross Section

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-25	25 of 33	2

LOCALITY PLAN SCALE 1:2500

LEGEND - LAYOUT PLAN ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
Ex E	EXISTING ELECTRICITY (UNDER GROUND)
O/H E	EXISTING ELECTRICITY OVERHEAD
Ex G	EXISTING GAS
Ex T	EXISTING TELSTRA
Ex O	EXISTING OPTIC FIBRE
Ex W	EXISTING WATER
Ex RW	EXISTING RECYCLED WATER
SWR	EXISTING SERVICE CONDUITS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
Fut E	FUTURE ELECTRICITY (UNDER GROUND)
FutO/H E	FUTURE ELECTRICITY OVERHEAD
Fut G	FUTURE GAS
Fut T	FUTURE TELSTRA
Fut O	FUTURE OPTIC FIBRE
Fut W	FUTURE WATER
Fut RW	FUTURE RECYCLED WATER
SWR	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
CH270.00	CHAINAGE
	OVERLAND FLOW
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED FOOTPATH
	PROPOSED ACCESS TRACK/RAMP
	NWL RL43.00
	TED RL43.35

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RESERVE
371 372 373 374 375 376 377 378 379
334
CHORUS LANE
KEEPING TERRACE
4.0m WIDE ACCESS TRACK AND RAMP IN ACCORDANCE WITH MW STD DWG 7251/12/013, REFER TO DRAWING 4050/08/30 FOR DETAILS
ROCLA GPT. REFER TO DRAWING 4050/08/31
CONCRETE BASE TO SEDIMENT POND IN ACCORDANCE WITH MW STD DWG 7251/12/012
1:3 SEDIMENT BASIN BATTERS TO BE Ddensely PLANTED
PROVIDE REMOVABLE BOLLARDS WITH CHAIN AT WATERS EDGE
PROVIDE SAFETY FENCE TO MW STANDARD, 7251/08/206
SED BASIN
Area: 325m^2
NWL: RL43.00
Maximum Water Level: 43.9AHD
DRYING AREA
Area: 200m^2
1200Ø
825Ø
1 in 192.55
1 in 30.00
1 in 20.00
Flat
3.0m WIDE SHARED PATH PER PSP
Q100 DISCHARGING POINT
GRATED ENTRY PIT DETAIL REFER 4050/08/29 FOR DETAILS
CRUSHED ROCK TRACK FOR PIT 88 MAINTENANCE
(2x)900Ø
PROVIDE SAFETY FENCE TO MW STANDARD, 7251/08/206
Q100 FLOOD EXTENT LEVEL
INVERT: 42.326m
EROSION PROTECTION FOR OVERLAND FLOW SPILLWAY
DRY CREEK RESERVE (MELBOURNE WATER)
DRY STONE WALL TO BE RETAINED.
FOR ROCK HEAD WALL DETAILS REFER TO DRAWING 4050/08/29
ExG

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DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 2 4 8
Scale 1:200
SCALE AS SHOWN AT A1

N

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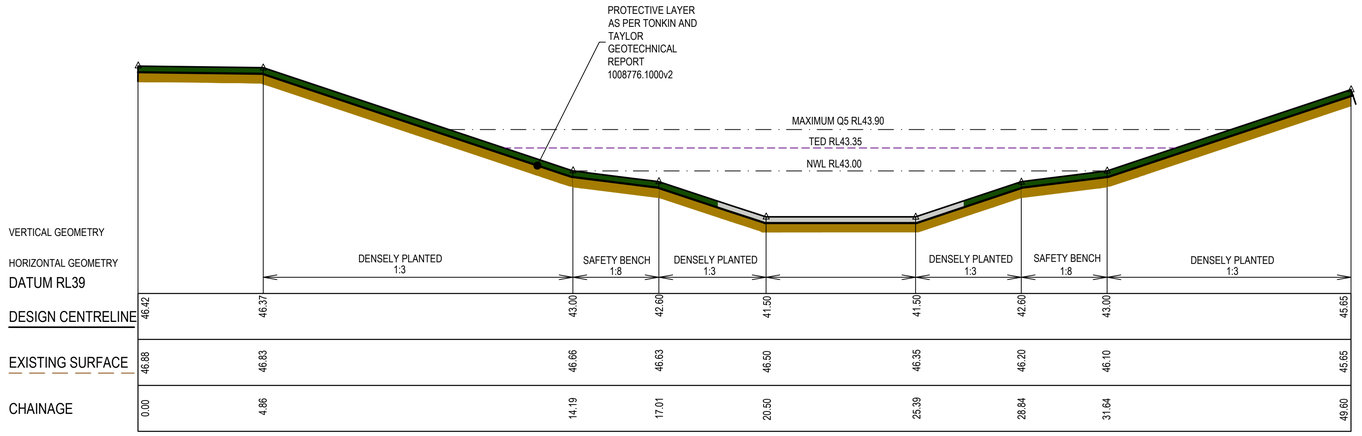
Melbourne Water

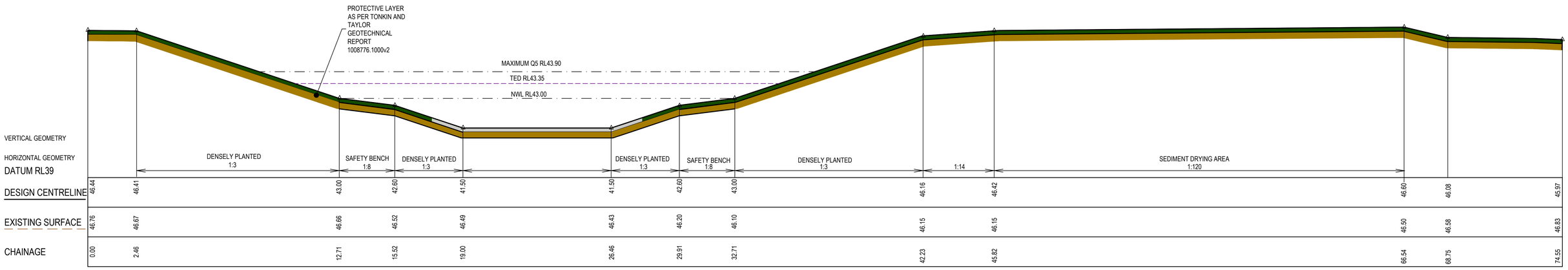
Marigold - Stage 1
Wyndham City Council
Dry Creek, Section 8
Layout Plan - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	4050/08/26	26 of 33	2

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-26.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:43:53 PM



SECTION A



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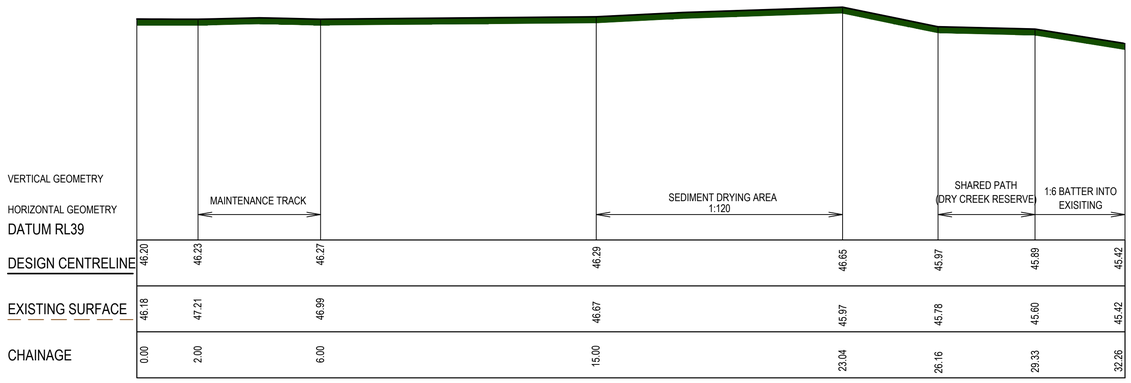

SECTION C

SYMBOLS AND GENERAL NOTES

- EXISTING SURFACE
- DESIGN LINE
- NORMAL WATER LEVEL
- TED LEVEL
- 200mm TOP SOIL (TYPICAL)
- ROCK CHUTE
- STRUCTURAL FILL
- CONCRETE PATH
- CONCRETE BASE TO MW STD DWG 7251/12/012

WARNING

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DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
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REFERENCE No. 2	

0 0.1 0.2 0.4
Scale 1:10
SCALE AS SHOWN AT A1

N

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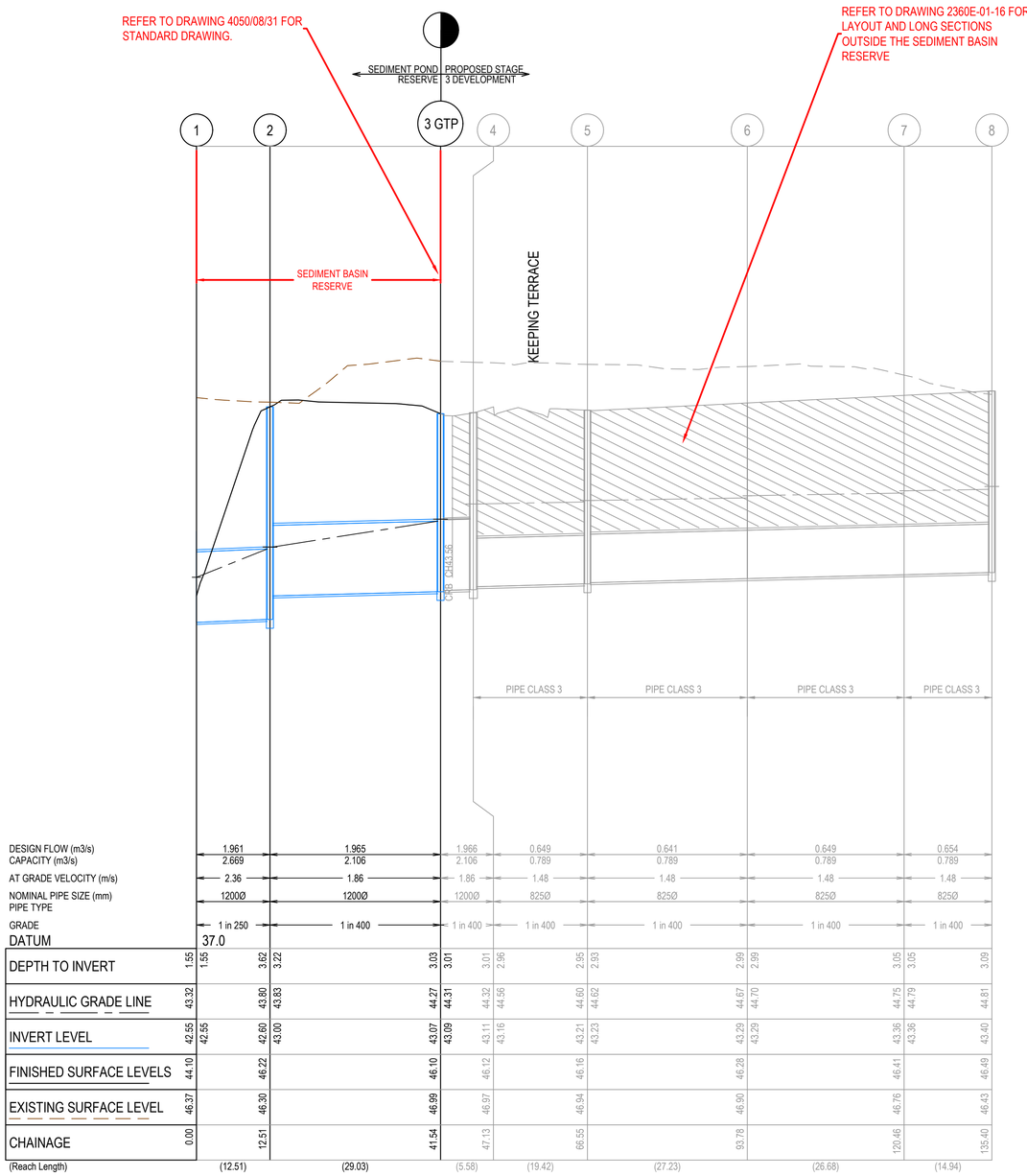
Melbourne Water

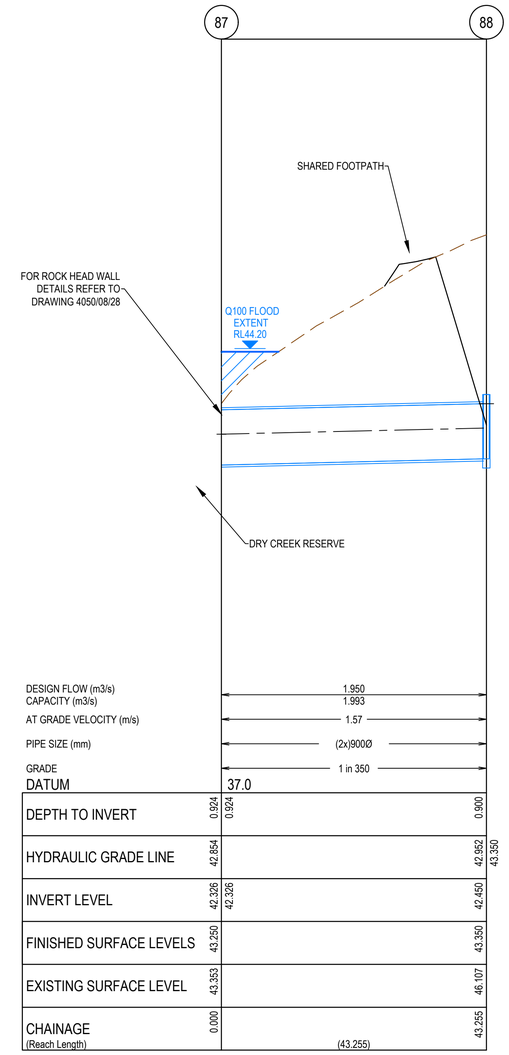
Marigold - Stage 1
Wyndham City Council
Dry Creek, Section 8
Cross Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	4050/08/27	27 of 33	3

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-27.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:44:20 PM



DESIGN FLOW (m3/s)		1.961	1.965	1.966	0.649	0.641	0.649	0.654				
CAPACITY (m3/s)		2.669	2.106	2.106	0.789	0.789	0.789	0.789				
AT GRADE VELOCITY (m/s)		2.36	1.86	1.86	1.48	1.48	1.48	1.48				
NOMINAL PIPE SIZE (mm)		1200Ø	1200Ø	1200Ø	825Ø	825Ø	825Ø	825Ø				
PIPE TYPE												
GRADE		1 in 250	1 in 400	1 in 400	1 in 400	1 in 400	1 in 400	1 in 400				
DATUM		37.0										
DEPTH TO INVERT	1.55	1.55	3.62	3.22	3.03	3.01	3.01	2.96	2.95	2.93	2.99	2.99	3.05	3.05	3.09
HYDRAULIC GRADE LINE	43.32		43.90	43.83	44.27	44.31	44.32	44.56	44.60	44.62	44.67	44.70	44.75	44.79	44.81
INVERT LEVEL	42.55	42.55	42.60	43.00	43.07	43.09	43.11	43.16	43.21	43.23	43.29	43.29	43.36	43.36	43.40
FINISHED SURFACE LEVELS	44.10		46.22		46.10		46.12		46.16		46.28		46.41		46.49
EXISTING SURFACE LEVEL	46.37		46.30		46.99		46.97		46.94		46.90		46.76		46.43
CHAINAGE	0.00		12.51		41.54		47.13		66.55		93.78		120.46		135.40
(Reach Length)		(12.51)		(29.03)		(5.58)		(19.42)		(27.23)		(26.68)		(14.94)	



DESIGN FLOW (m3/s)		1.950	
CAPACITY (m3/s)		1.993	
AT GRADE VELOCITY (m/s)		1.57	
PIPE SIZE (mm)		(2x)900Ø	
GRADE		1 in 350	
DATUM		37.0	
DEPTH TO INVERT	0.924	0.924	0.900
HYDRAULIC GRADE LINE	42.854		42.952 / 43.350
INVERT LEVEL	42.326	42.326	42.450
FINISHED SURFACE LEVELS	43.250		43.350
EXISTING SURFACE LEVEL	43.353		46.107
CHAINAGE	0.000		43.255
(Reach Length)		(43.255)	

	PIT	INTERNAL		INLET		OUTLET		PIT			
NAME	TYPE	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	STD DWG	REMARKS
1	ENDWALL			1200	42.55			44.1	0		FOR ROCK HEADWALL REFER TO DRAWING 4050/08/28
2	JUNCTION PIT	1350	900	1200	43	1200	42.6	46.217	3.617	EDCM607	
3	JUNCTION PIT	1350	900	1200	43.093	1200	43.073	46.101	3.028		FOR GPT REFER TO DRAWING 4050/08/30
87	ENDPIPE			900	42.326			43.25	0.924		FOR ROCK HEADWALL REFER TO DRAWING 4050/08/29
88	GRATED ENTRY PIT	2600	900			900	42.45	43.35	0.9		FOR EDD CONTROL PIT DETAILS REFER TO DRAWING 4050/08/29

WARNING

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DESIGNER	M.Holmquist
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AUTHORISED	B.Sanderson
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0 5 10 20
Scale 1:500
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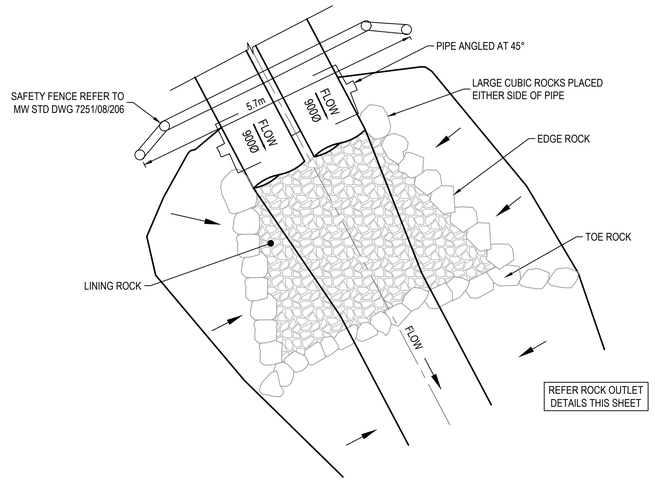
Melbourne Water

Marigold - Stage 1
Wyndham City Council
Dry Creek, Section 8
Longitudinal Sections - 1
& Pit Schedule

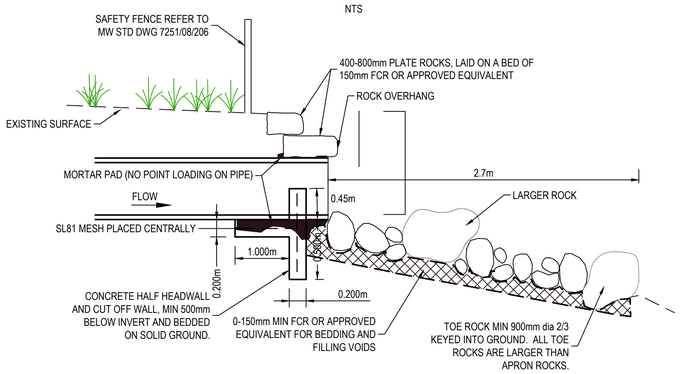
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	4050/08/28	28 of 33	1

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-28.dwg PRINTED BY: ON10056 on 22/04/2020 at 06:44:45 PM

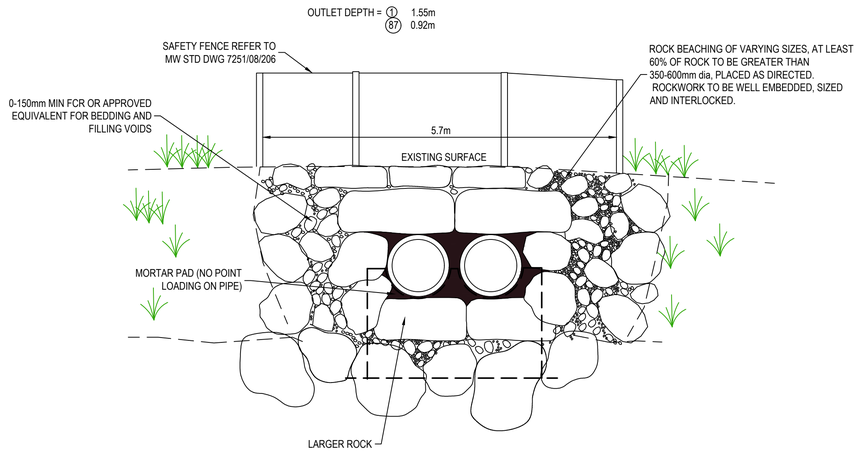


PIPE OUTLET TO WATERWAY (87)

NTS

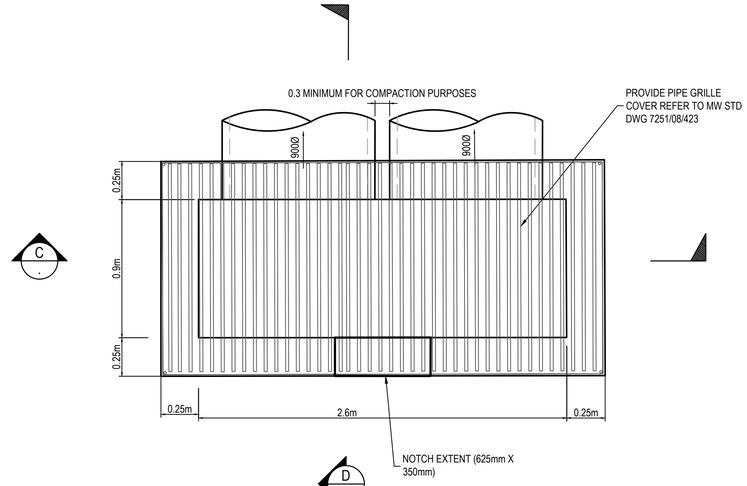


SIDE VIEW

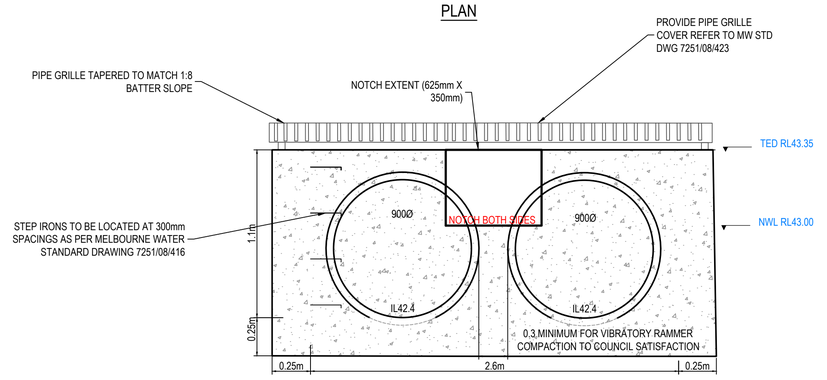


ROCK OUTLET

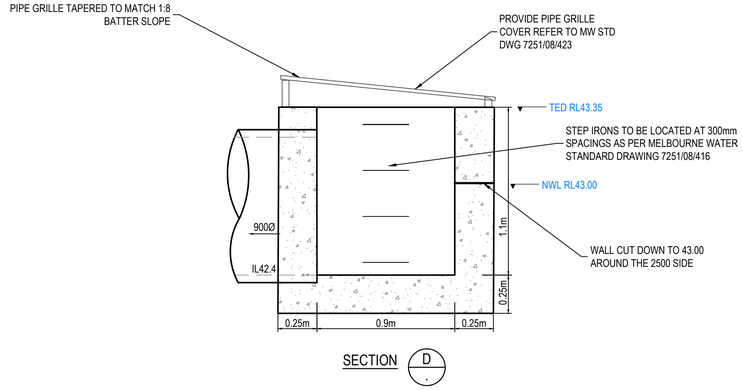
NTS



PLAN



SECTION C



SECTION D

GRATED ENTRY PIT DETAIL (88)

SCALE 1:50

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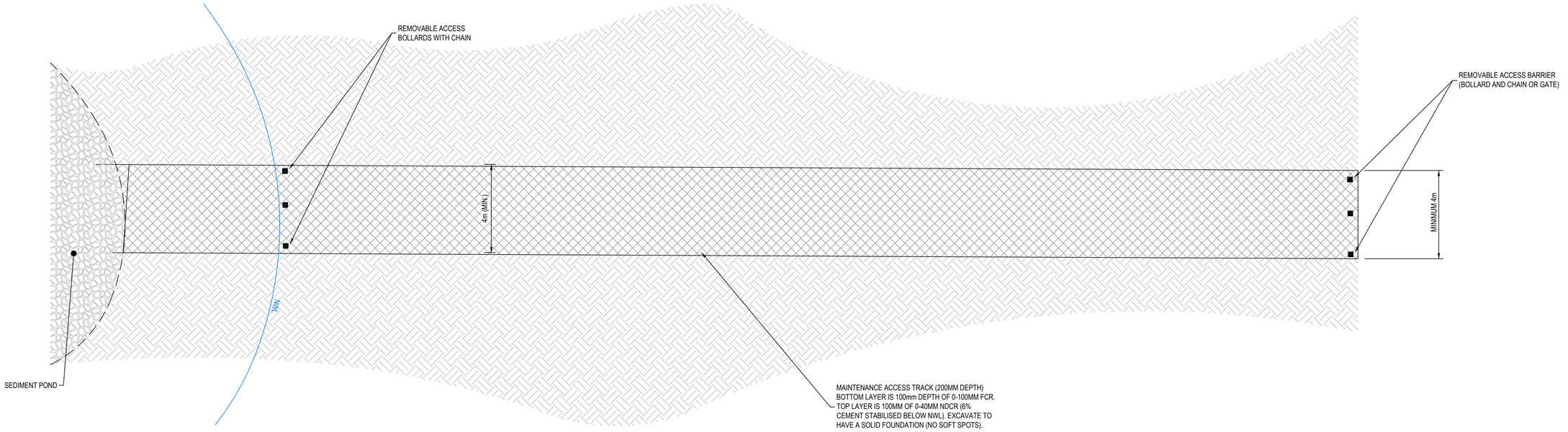
Melbourne Water

Marigold - Stage 1
Wyndham City Council
Dry Creek, Section 8
Outlet & Pit Details

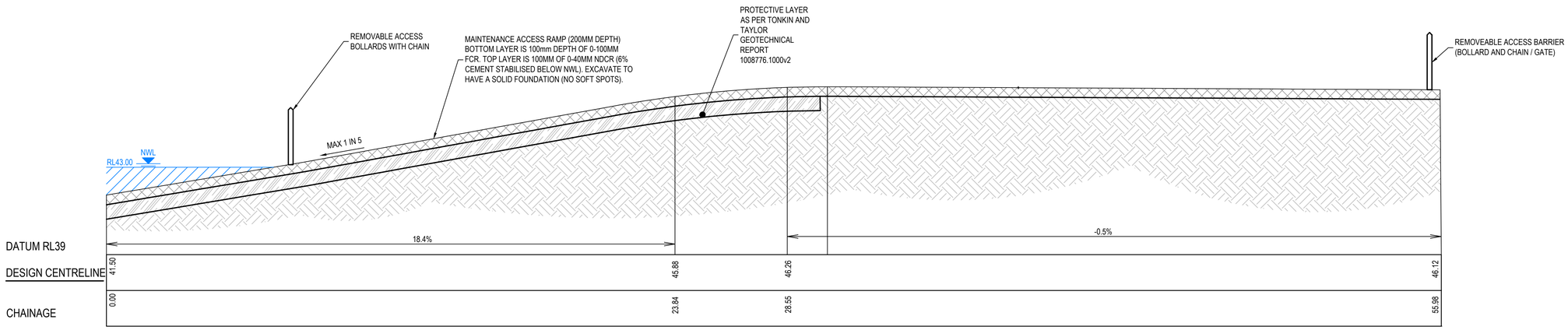
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	4050/08/29	29 of 33	3

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-29.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:45:11 PM



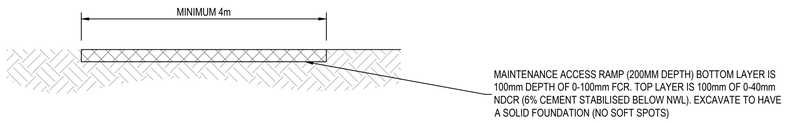
MAINTENANCE ACCESS TRACK (TYP.)

SCALE 1:10



MAINTENANCE TRACK LONGITUDINAL SECTION

SCALE 1:10



ACCESS RAMP/HARDSTAND/TRACK DIMENSIONS

NTS

NOTES:

- GENERALLY THREE REMOVABLE BOLLARDS FITTED WITH A CHAIN AT WAIST HEIGHT (900MM OFF THE GROUND AVOIDING TRIP HAZARD) ARE TO BE INSTALLED WHERE THE MAINTENANCE TRACK MEETS THE WATER'S EDGE. A BOLLARD IS LOCATED ON EITHER SIDE OF THE TRACK WITH 1 IN THE MIDDLE OF IT AND A CHAIN CONNECTING THEM ALL TOGETHER. TALL OBSTRUCTIVE VEGETATION COMBINED WITH LARGE SPORADIC ROCK PLACEMENT SHOULD ALSO BE INSTALLED AROUND THE SEDIMENT POND ON EITHER SIDE OF THE TRACK TO ENSURE A PRAM, BIKE OR VEHICLE ETC CANT ENTER THE WATER.
- GEOTECHNICAL REPORT FOR WETLANDS MUST INCLUDE PERMEABILITY TEST, GROUND WATER TABLE INFORMATION AND SALINITY TESTS. REPORT DICTATES THICKNESS AND COMPACTION FOR THE CLAY LINER AND ALSO THE QUALITY OF THE TOPSOIL. REFER TO TONKIN AND TAYLOR GEOTECHNICAL REPORT 1008776.R2

BOLLARD NOTES:

- TIMBER BOLLARDS TO BE CHAMFERED (40MM) INTO A FOUR SIDED PYRAMID TOP POST.
- TO BE MADE OF CYPRESS PINE TIMBER OR EQUIVALENT (200MM X 200MM).
- CONTAIN A MASS CONCRETE FOOTING (32MPA).
- BE FITTED WITH BOTH MELBOURNE WATER & COUNCIL (DUAL AUTHORITY) INDEPENDENT LOCKING CAPABILITY.

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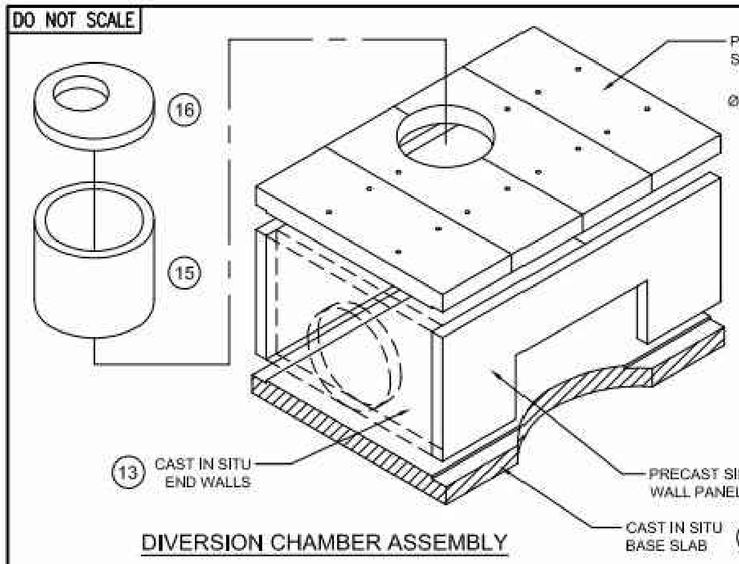
Dry Creek, Section 8
Maintenance Track Details

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	4050/08/30	30 of 33	1

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-30.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:45:36 PM

DO NOT SCALE

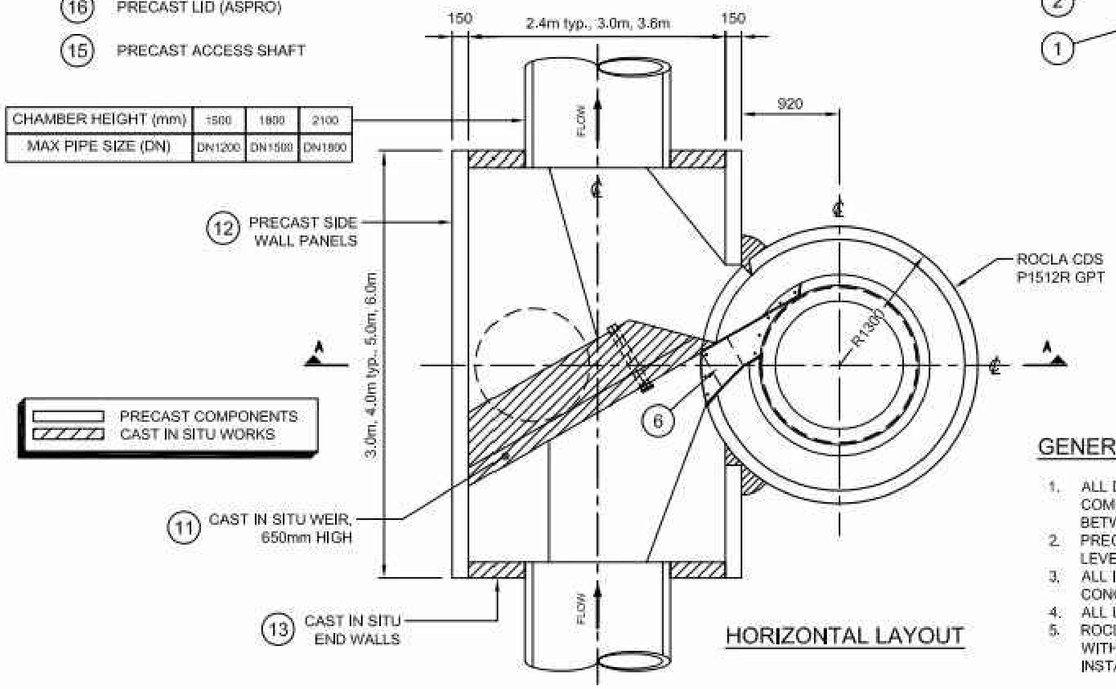


DIVERSION CHAMBER ASSEMBLY

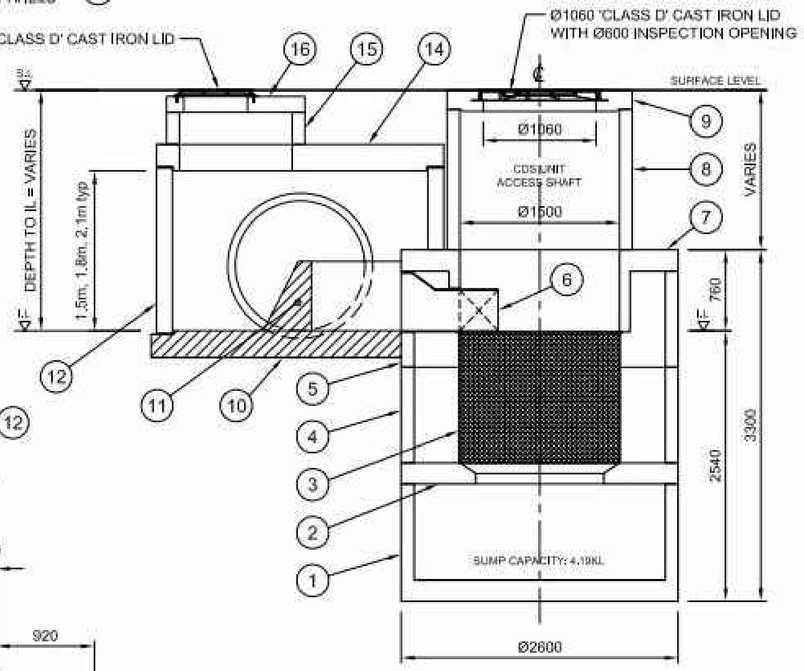
16 PRECAST LID (ASPRO)

15 PRECAST ACCESS SHAFT

CHAMBER HEIGHT (mm)	1500	1800	2100
MAX PIPE SIZE (DN)	DN1200	DN1500	DN1800



HORIZONTAL LAYOUT

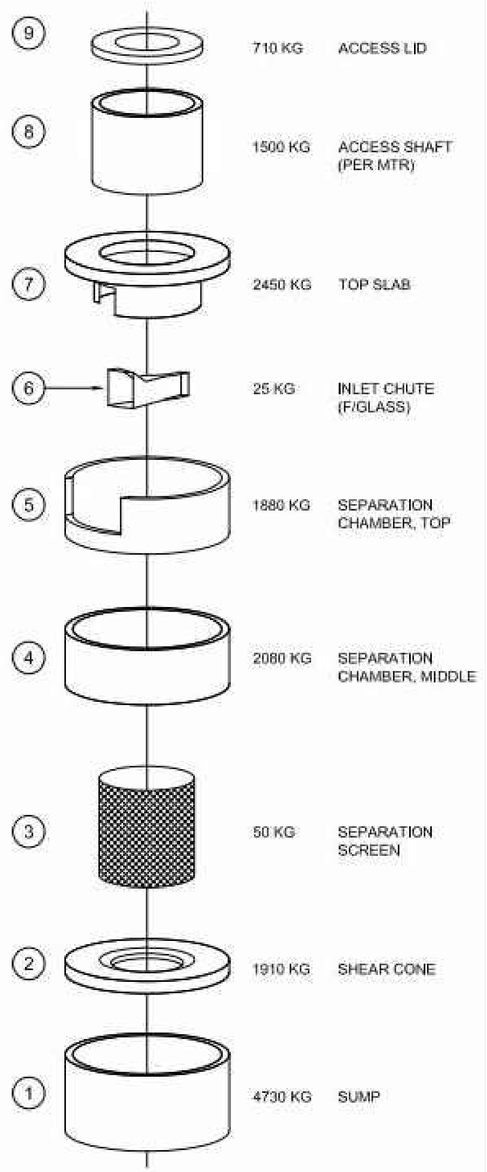


VERTICAL SECTION A

GPT SITE DETAILS	
INLET PIPE DIA	
OUTLET PIPE DIA	
D.T.I (OUTLET)	

GENERAL NOTES:

1. ALL DIMENSIONS & LEVELS SHOWN ARE FOR CONCRETE COMPONENTS ONLY AND DO NOT ALLOW FOR SEALANTS BETWEEN COMPONENTS (APPROX 10mm PER JOIN).
2. PRECAST RISER SHAFTS MAY NOT MATCH SURFACE LEVELS AND CAST INSITU FINISHING MAY BE REQUIRED.
3. ALL INSITU CONCRETE TO BE MINIMUM 40mpa. ALL INSITU CONCRETE DESIGN BY CLIENT, U.N.O.
4. ALL LEVELS TO BE CONFIRMED PRIOR TO INSTALLATION.
5. ROCLA PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND ROCLA PRODUCT INSTALLATION GUIDES.



CDS UNIT ASSEMBLY

DRAWING PREPARED BY PRODUCT APPLICATION DESIGN

A	DRC	DRC	SDB	ISSUED FOR INFORMATION	13,08,10
RV	DRN	CKD	APR	DESCRIPTION	DATE

CDS® TECHNOLOGIES

Rocla® Water Quality

ROCLA WATER QUALITY CDS P1512R GPT WITH SLAB CHAMBER GENERAL ARRANGEMENT

RWO No.	
JOB No.	
SHEET	1 OF 1
SCALE	DO NOT SCALE
D	213144

AS CONSTRUCTED PLANS

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

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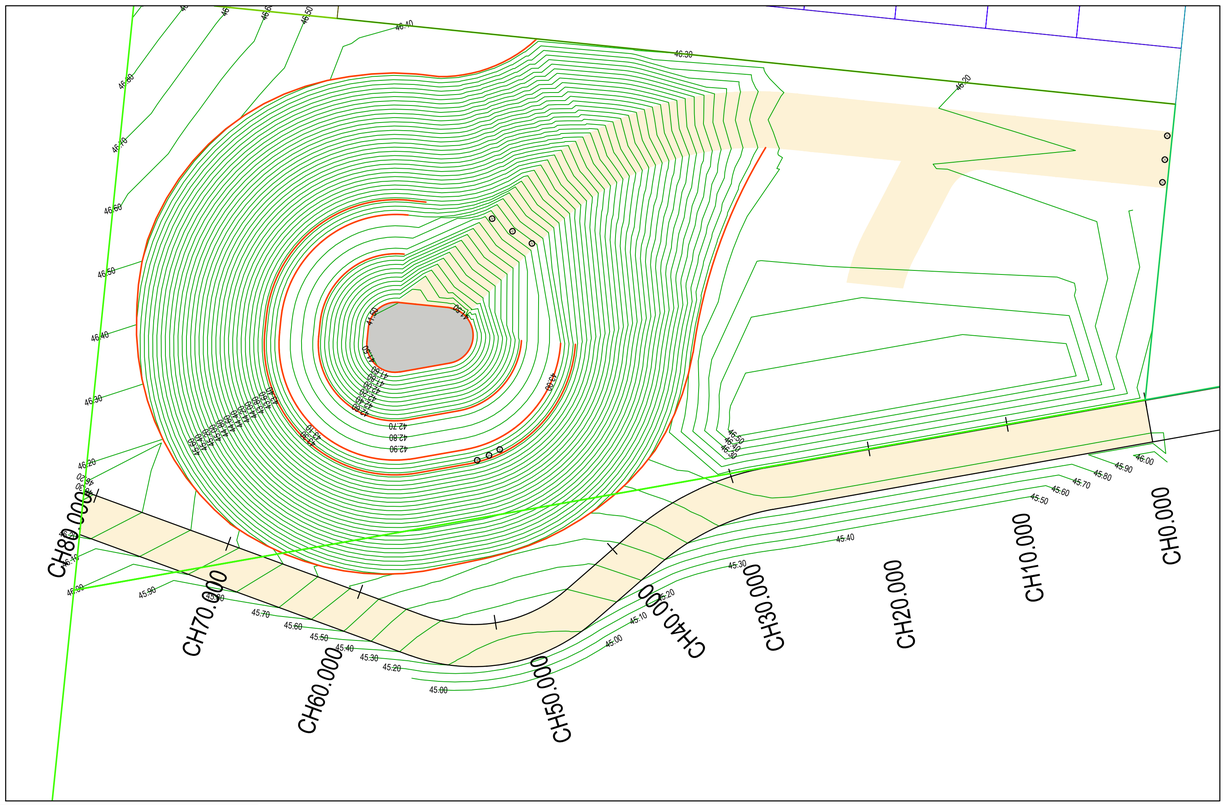
Melbourne Water

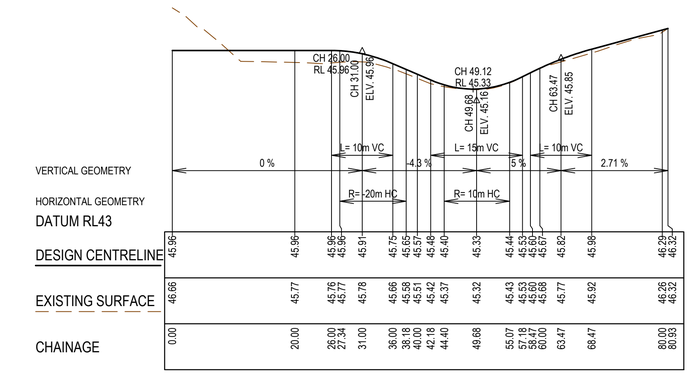
Marigold - Stage 1
Wyndham City Council
Dry Creek, Section 8
GTP Standard Drawing

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	4050/08/31	31 of 33	1

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-31.dwg PRINTED BY: ON15056 on 22/04/2020 at 06:46:03 PM



SEDIMENT BASIN SHARED FOOTPATH PLAN VIEW

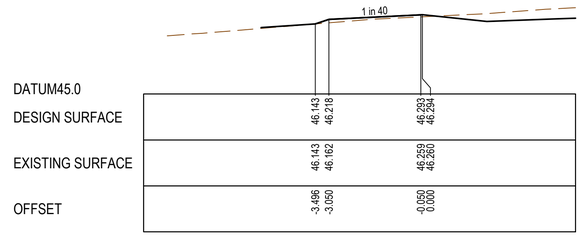


SEDIMENT BASIN SHARED FOOTPATH LONGITUDINAL SECTION

SYMBOLS AND GENERAL NOTES

EXISTING SURFACE

DESIGN LINE



CH 80.000

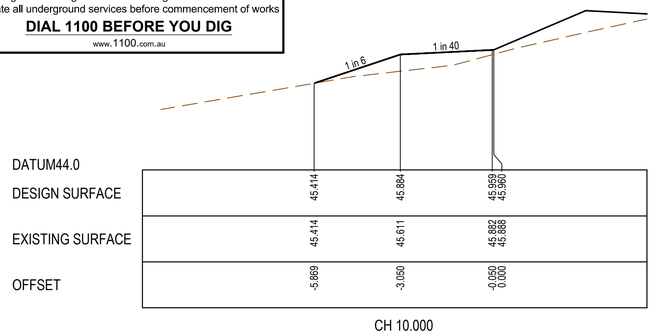
WARNING

BEWARE OF UNDERGROUND SERVICES

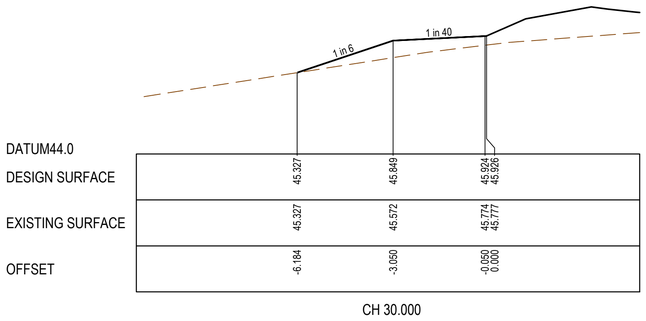
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

DIAL 1100 BEFORE YOU DIG

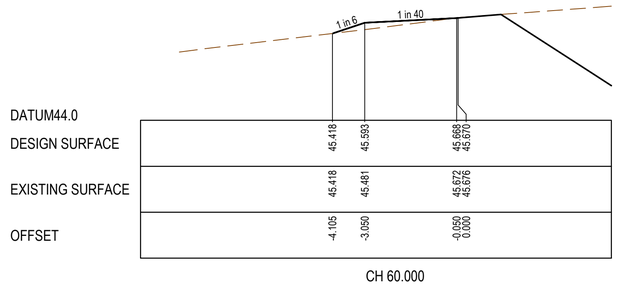
www.1100.com.au



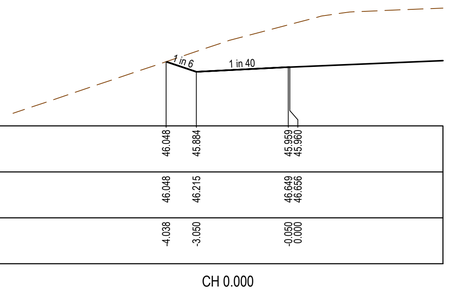
CH 10.000



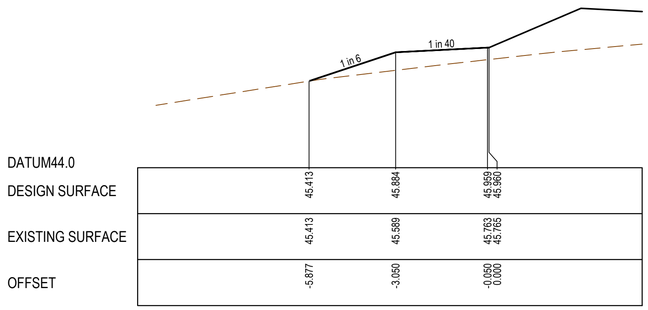
CH 30.000



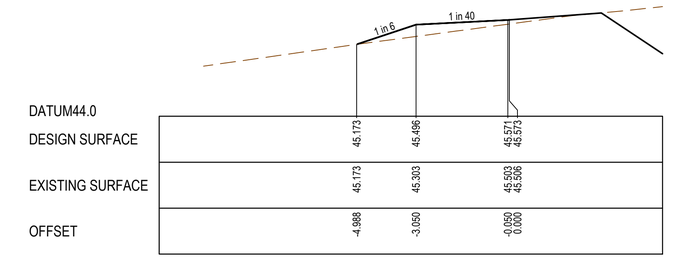
CH 60.000



CH 0.000



CH 20.000



CH 40.000

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

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Melbourne Water

Marigold - Stage 1
Wyndham City Council
Dry Creek, Section 8
Shared Footpath Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	4050/08/32	32 of 33	1

DWG PATH: V:_Vault\Projects_Urban\2360E-Marigold\2360E-01\Dwgs\2360E-01-32.dwg PRINTED BY: ON10556 on 22/04/2032 at 06:46:35 PM

Safety in Design

Project Name: Marigold Stage 01

Design Package: 2360E-01

Date: 05.11.2018

PHASE	DISCIPLINE CODE		RISK REGISTER -Construction- Operations- Maintenance POTENTIAL RISK		RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED YES/NO	If not eliminated Score residual risk			RESIDUAL RISK OWNER
										"Residual Risk Likelihood (0-5) "	"Residual Risk Consequence (0-5) "	"Residual Risk Rating "	
			Road Furniture / Roadside features										
Construction	RD	Roads	Construction close to live traffic	New works will be constructed adjacent to live traffic when abutting existing stages.	Contractor	Disruptions to live traffic, construction incident involving live traffic.	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5	3	15	Constructor
Construction	US	Utilities or Services	Utilities become a hazard within clear zones	Vehicle conflict with utility / pit	Contractor	Personal injury, vehicle damage	Sequence works and protect with temp barrier or traffic control (TCP)	TCP provided within contract	N	1	5	5	Constructor
Operational	RD	Roads	Sight Lines	Inadequate drivers response time.	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Vis lines checked and discussed with approval authority as part of design approval process	N	1	4	4	Road Authority
Operational	LS	Lines and Signs	Signs and street lights	Potential for drivers / riders to strike signs and street lights	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Refer to appropriate standard for sign and lighting offsets	N	1	4	4	Road Authority
Operational	RF	Road Furniture	Headwalls	Potential vehicle conflict within clear zone	Road Authority	Increased potential for accidents	Establish adequate clear zone provision	Adequate barrier provided as per appropriate standard where within clear zone. Culvert headwall selection in accordance with authority standard	N	2	4	8	Road Authority
			Drainage										
Operational	DR	Drainage	Grated Pits	Trip/fall hazard with large spaced grate	Relevant Authority	Increased potential for accidents	Provide pedestrian/bicycle friendly grates where applicable. Refer to pit schedule	Design in accordance with authority and manufacturers standards	N	3	2	6	Authority
Operational	DR	Drainage	Non Standard Large Pits	Potential for pit failure	Relevant Authority	Increased risk to maintenance crews/ vehicles	Structural design in accordance with relevant design principles.	Refer to structural drawings and calculations	N	1	4	4	Authority
Operational	DR	Drainage	Culvert Endwalls/Headwalls	Potential for falling from height	Relevant Authority	Increased potential for accidents	Fencing to be provided where culverts/headwalls are at height in accordance with relevant authority standards	Allow for fencing in Design Process	N	1	4	4	Authority
Operational	DR	Drainage	Culvert Endwall/Headwall Outlets	Children playing in large pipes / watercourses and access for maintenance	Relevant Authority	Increased potential for accidents	Grate provided to authority standards	Design in accordance with authority and manufacturers standards	N	2	5	10	Authority
Maintenance	DR	Drainage	Access to Pits	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Provide safe landing/ access arrangements as per relevant authority standards	Where possible design pit in location for easy access and outside of permanent water bodies	N	2	5	10	Authority
Maintenance	DR	Drainage	Deep Pits	Lack of safe entry for maintenance	Relevant Authority	Increased potential for accidents	Contractor to be certified for work in confined spaces, step irons to be provided to appropriate authority standards. Refer to pit schedule	Design in accordance with authority standards	N	1	5	5	Authority
Maintenance	DR	Drainage	Access to drains / culverts	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Access as approved by authority	Design pit in location for easy access as agreed with authority	N	2	3	6	
			Sewer										
Maintenance	SE	Sewer	Deep Manholes	Lack of safe entry for maintenance	Relevant Authority	Increased potential for accidents	Contractor to be certified for work in confined spaces, landings and step access provided as per authority standards and schedule	Design in accordance with authority standards. Refer pit schedule on drawings	N	1	5	5	Authority
Maintenance	SE	Sewer	Access to Manholes	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Manholes located in compliance with authority standards	Where possible design manhole in location for easy access	N	1	5	5	Authority
			Electricity										
Operational	ES	Electrical Services	Electrical Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Electrical designed by sub consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
			Telstra										
Operational	TE	Telstra	Telstra Design	Location of assets within clear zones e.g.. pits	Relevant Authority	Increased potential for accidents	Telecommunications designed by authority consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
			Water										
Operational	WA	Water	Water Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
			Gas										
Operational	GA	Gas	Gas Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	1	1	1	Authority

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TITLE	NAME
DRAFTER	M.Holmquist
DESIGNER	M.Holmquist
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

SCALE AS SHOWN AT A1

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GROWLAND

Marigold - Stage 1
Wyndham City Council
Dry Creek, Section 8
Safety In Design

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-01-85	33 of 33	1

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