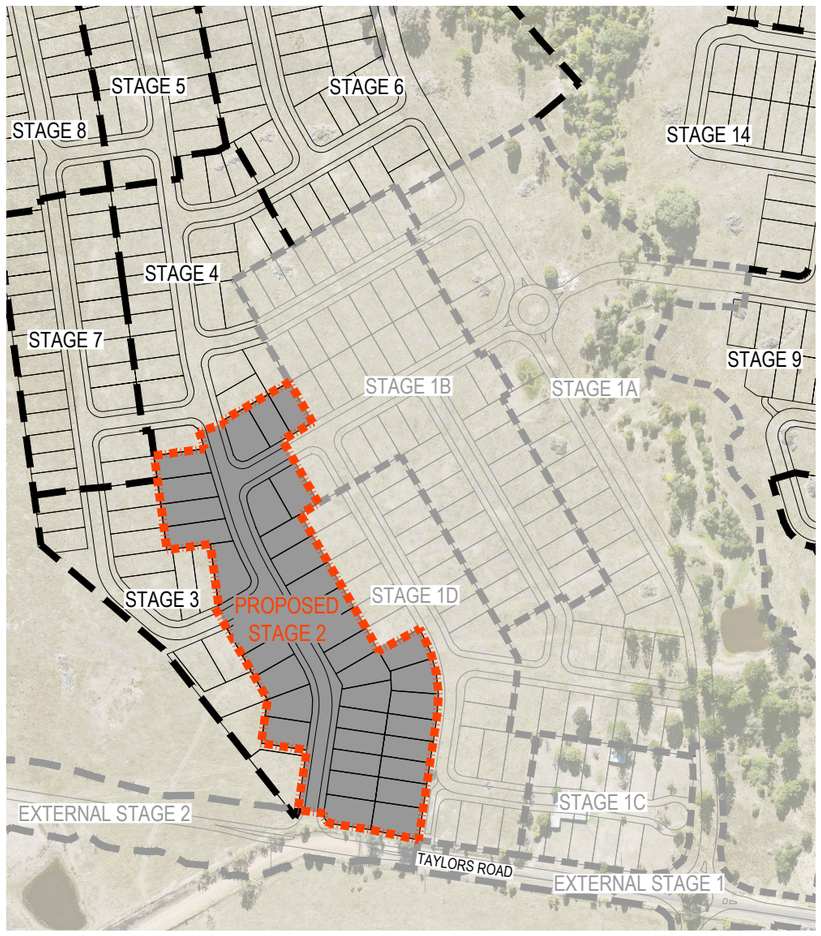
HIGHLAND WALLOON - STAGE 2

213 TAYLORS ROAD

CIVIL WORKS - OPERATIONAL WORKS PACKAGE



LOCALITY PLAN
SCALE 1:2000 (A1)

DRAWING INDEX

PROJECT SUMMARY INFORMATION

NUMBER OF PROPOSED LOTS	36
AREA OF PROPOSED SITE	2.528ha
REAL PROPERTY DESCRIPTION	LOT 1 ON SP350918
PERMANENT SURVEY MARK	PM67024
ALL DRAWING COORDINATES TO MGA ZONE 56	

Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

Date: 8/09/2025

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A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

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APPROVED
TIMOTHY WOOD
DATE 08.07.2025
RPEQ 29318

smec an Su company
© ABN 47 065 475 149

0 20 40 80
Scale 1:2000

N

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: GENERAL COVER SHEET

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-100	A

GENERAL NOTES:

1. CONTRACT DOCUMENTATION
   ALL DRAWINGS UNDER THIS CONTRACT ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATION.
2. SURVEY INFORMATION
   CONTROL SURVEY INFORMATION WILL BE ESTABLISHED ON SITE BY THE PRINCIPAL'S SURVEYOR. SETOUT INFORMATION SHALL NOT BE OBTAINED BY SCALING FROM THESE DRAWINGS.
3. DATUM
   ALL LEVELS SHOWN ON DRAWINGS ARE A.H.D. (DERIVED).
4. EXISTING SURVEY CONTROL STATIONS
   THE CONTRACTOR IS TO ENSURE THAT SURVEY CONTROL STATIONS ARE NOT DAMAGED OR DISTURBED IN ANY WAY BY CONSTRUCTION ACTIVITIES.
5. EXISTING SERVICES
   EXISTING SERVICES LOCATIONS WHERE SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CONTACT THE RELEVANT AUTHORITIES TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING SERVICES.
6. SITE ACCESS
   THE CONTRACTOR SHALL GAIN ACCESS TO THE SITE AT LOCATIONS APPROVED BY THE SUPERINTENDENT. FREEDOM OF ACCESS TO OTHER WORK AREAS ON THE SITE SHALL BE MAINTAINED AT ALL TIMES.
7. PROVISION FOR TRAFFIC
   PROVISION FOR TRAFFIC ON LOCAL ROADS IS TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LOCAL AUTHORITY REQUIREMENTS.
8. WORK BOUNDARIES
   THE CONTRACTOR IS TO RESTRICT ACTIVITIES TO THOSE AREAS DESIGNATED AS WORK AREAS UNDER THIS CONTRACT. AT NO TIME SHALL THE CONTRACTOR ENTER ADJOINING PROPERTIES OR CONTRACT WORK AREAS ON THE SITE WITHOUT WRITTEN AUTHORISATION FROM THE SUPERINTENDENT.
9. SITE CLEARING
   CLEARING AND GRUBBING SHALL BE CARRIED OUT TO ALL WORK AREAS AS SPECIFIED AND SHALL INCLUDE THE REMOVAL OF ALL EXISTING TREES (UNLESS NOMINATED TO BE PRESERVED), EXISTING VEGETATION, TIMBER, FENCES AND ANY OTHER DEBRIS.
10. TOPSOIL STRIPPING
    ALL TOPSOIL STRIPPED FROM WORK AREAS SHALL BE STOCKPILED FOR LATER RE-SPREADING TO ALL FOOTPATHS, BATTERS AND FILL AREAS.
11. TOPSOIL REPLACEMENT AND GRASSING
    FOLLOWING COMPLETION OF ROADWORKS CONSTRUCTION AND BULK EARTHWORKS OPERATIONS THE FULL EXTENT OF FOOTPATHS, BATTERS AND FILL AREAS IS TO BE RE-TOPSOILED TO A MINIMUM DEPTH OF 75mm AND GRASSED AS FURTHER DETAILED IN THE SPECIFICATION.
12. TESTING
    ALL TESTING SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. TESTING AUTHORITY IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
13. AS CONSTRUCTED" SURVEY "
    AS CONSTRUCTED" SURVEY SHALL BE CARRIED OUT BY THE PRINCIPAL'S SURVEYOR AS WORK PROCEEDS.
14. MAINTENANCE OF SITE CONDITION
    AT THE COMPLETION OF WORKS THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT AND IPSWICH CITY COUNCIL.

ARBORIST NOTES:

· TREE PROTECTION FENCING TO BE ERECTED AROUND RETAINED TREES BEFORE WORKS COMMENCE. PROJECT ARBORIST (AQF LEVEL 5 TO REVIEW ALL TREE PROTECTION FENCING BEFORE WORKS COMMENCE.
· PROJECT ARBORIST (AQF LEVEL 5) TO REVIEW THE FINAL SET OUT AND ANY CHANGES TO EARTHWORKS PLANS BEFORE WORKS COMMENCE.
· ALL WORKS WITHIN THE TPZ OF A RETAINED TREE IS TO BE SUPERVISED AND / OR AUDITED BEFORE WORKS COMMENCE.
· TREE PROTECTION FENCING TO BE FAUNA FRIENDLY DESIGN & MAY BE SUBJECT TO MINOR CHANGES BY PROJECT ARBORIST AND CIVIL ENGINEER

EROSION AND SEDIMENT CONTROL NOTES

1. CONTRACTOR TO PREPARE A SITE SPECIFIC 'EROSION AND SEDIMENT CONTROL PLAN' IN ACCORDANCE WITH 'INTERNATIONAL EROSION CONTROL ASSOCIATION' (IECA) GUIDELINES CERTIFIED BY CPESC OR A QUALIFIED RPEQ

MANAGEMENT OF DISPERSIVE SOILS NOTES

1. DISPERSIVE SOILS NEED TO BE DIRECTLY LOADED AND TRANSPORTED TO DESIGNATED FILL AREA.
2. CUT CHANNELS TO DIVERT CLEAN TO REDUCE DISTURBANCE TO DISPERSIVE SOIL.
3. CONVEY DIRTY WATER TO RELEVANT TREATMENT DEVICES (EG ROCK FILTER DAM) VIA A DIVERSION CHANNEL OR EARTH BUNDS.
4. DIRTY WATER WATER DRAINAGE OUTLETS TO BE INSTALLED TO CONVEY DIRTY ON-SITE TO SEDIMENT A BASIN/ROCK FILTER DAM WITH GEOTEXTILE.
5. WHERE DISPERSIVE SOILS ARE LEFT ONSITE FOR PROLONGED PERIOD OF TIME, OR WHERE THEY ARE TO BE REUSED IN FILL PLATFORMS ONSITE, THEY ARE TO BE STABALISED IMMEDIATELY BY:
   - GYPSUM APPLICATION OR SIMILAR, TO IMPROVE SETTLEMENT PROPERTIES.
   - COVERING WITH NON-DISPERSIVE SOIL AND STABALISING WITH MULCH AND GRASS SEEDING.

Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

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EARTHWORKS NOTES

1. CARRY OUT EARTHWORKS IN ACCORDANCE WITH AS3798-2007 - GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS
2. ALL EARTHWORKS CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE IPSWICH CITY COUNCIL DEVELOPMENT GUIDELINES AND STANDARD DRAWINGS. THE CONTRACTOR SHALL REFER SPECIFICALLY TO EARTHWORKS REQUIREMENT UNDER ROADS.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ROADWORKS DRAWINGS AND THE SPECIFICATION.
4. DESIGN LEVELS SHOWN SHALL BE ON THE FINISHED SURFACE INCLUDING TOPSOIL.
5. CLEARED VEGETATION SHALL BE MULCHED AND STOCKPILED FOR RESPREADING AS DIRECTED BY SUPERINTENDENT.
6. THE CONTRACTOR SHALL ALLOW, TO REMOVE TOPSOIL TO A DEPTH OF 100mm MINIMUM, FROM WORK AREAS AND STOCKPILE ON SITE.
7. FOLLOWING THE COMPLETION OF EARTHWORKS THE CONTRACTOR SHALL RESPREAD TOPSOIL AS DIRECTED BY THESE DOCUMENTS OR BY THE SUPERINTENDENT.
8. THE CONTRACTOR SHALL LIMIT THE MOVEMENT OF EQUIPMENT AND MANPOWER TO THE MINIMUM AREA NECESSARY FOR EARTHWORKS AND PROTECT ALL VEGETATION OUTSIDE THE WORKS BOUNDARY.
9. FOR DESIGN DETAILS OF EARTHWORKS WITHIN THE ROAD RESERVES REFER TO THE ROADWORKS LONGITUDINAL AND CROSS SECTION DRAWINGS.
10. CONSIDERATION SHALL BE GIVEN TO ADJACENT LANDOWNERS DURING THE CONSTRUCTION WORKS. REFER TO SPECIFICATION FOR CONTRACTOR NOTIFICATIONS.
11. THE CONTRACTOR SHALL ALLOW FOR ALL DUST CONTROL MEASURES IN ACCORDANCE WITH ICC REQUIREMENTS.
12. THE CONTRACTOR SHALL ALLOW FOR HYDROMULCHING FOR ALL DISTURBED AREAS AS DIRECTED ON SITE IN ACCORDANCE WITH THE SPECIFICATION.
13. ALL NEW WORKS TO MATCH NEATLY TO EXISTING.
14. LEVEL1 CERTIFICATION IS REQUIRED ON ALL LOTS IN ACCORDANCE WITH AS3798-2007.
15. ALL DRAINAGE STRUCTURES ARE TO BE PROTECTED FROM EFFECTS OF STRUCTURAL LOADING GENERATED BY THE EARTHWORKS.
16. THE BULK EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:
    16.1. THE VEGETATION ASSESSMENT PLAN (VAP) PREPARED BY INDEPENDENT ARBORICULTURAL SERVICES (IAS) AND 28 SOUTH.
    16.2. THE ARBORICULTURAL IMPACT ASSESSMENT (AIS) PREPARED BY INDEPENDENT ARBORICULTURAL SERVICES (IAS).
    16.3. THE REHABILITATION MANAGEMENT PLAN (RMP) PREPARED BY 28 SOUTH.

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APPROVED RPEQ: 29318

TIMOTHY WOOD DATE: 08.07.2025

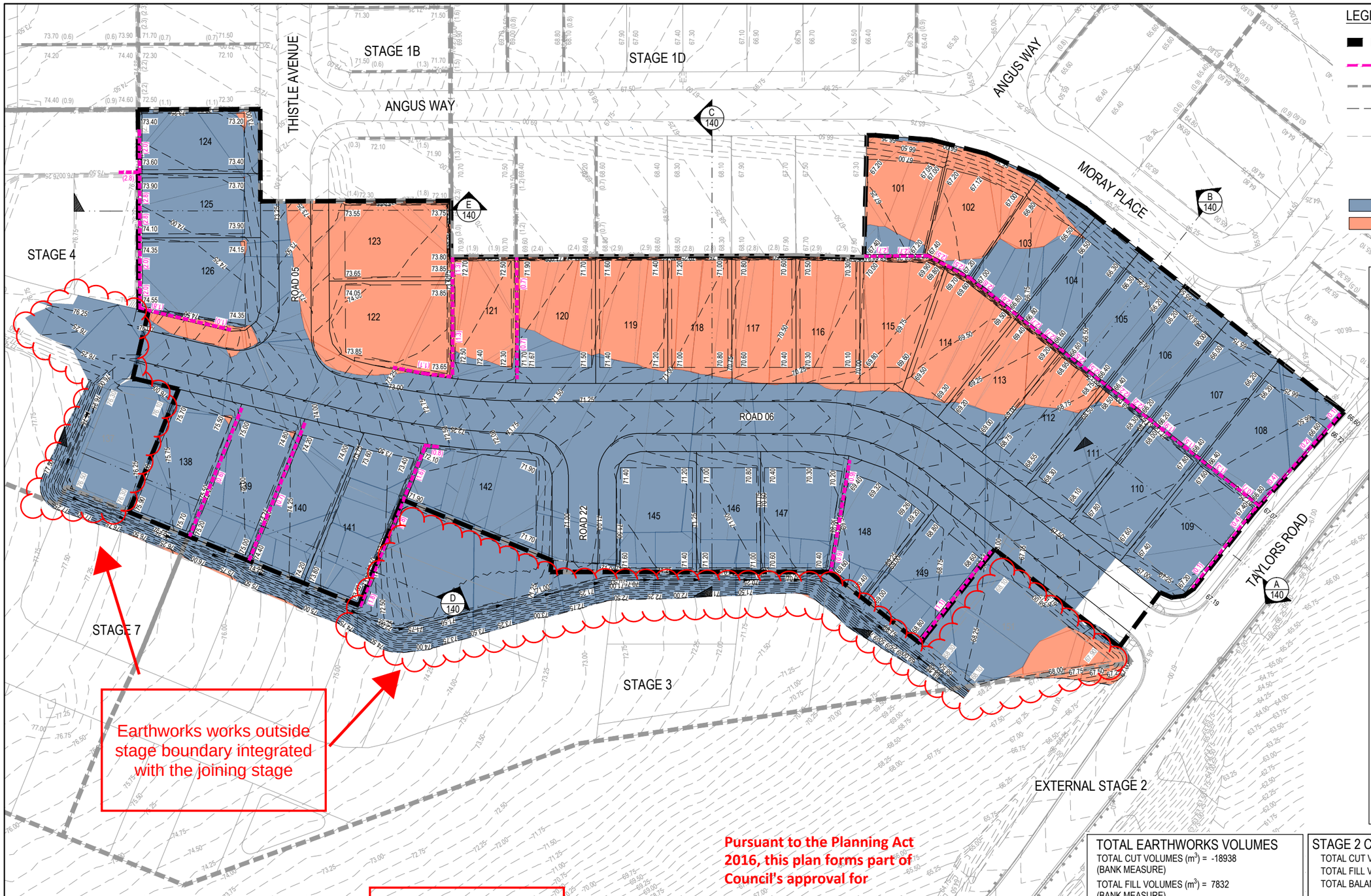
smec an SO company

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 1A
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: GENERAL NOTES

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-110	A



LEGEND

- STAGE BOUNDARY
- PROPOSED RETAINING WALL (BY OTHERS, SUBJECT TO D&C PACKAGE)
- EXISTING RETAINING WALL
- 14.0 FINISHED SURFACE CONTOUR (0.25m INTERVAL)
- 14.0 EXISTING SURFACE CONTOUR (0.25m INTERVAL)
- (1.00) EXISTING MAXIMUM WALL HEIGHT
- 76.00 PAD LEVELS
- (1.00) PROPOSED MAXIMUM WALL HEIGHT
- CUT
- FILL

EARTHWORKS NOTES

1. CARRY OUT EARTHWORKS IN ACCORDANCE WITH AS3798-2007 - GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS
2. ALL EARTHWORKS CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE IPSWICH CITY COUNCIL DEVELOPMENT GUIDELINES AND STANDARD DRAWINGS. THE CONTRACTOR SHALL REFER SPECIFICALLY TO EARTHWORKS REQUIREMENT UNDER ROADS.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ROADWORKS DRAWINGS AND THE SPECIFICATION.
4. DESIGN LEVELS SHOWN SHALL BE ON THE FINISHED SURFACE INCLUDING TOPSOIL.
5. CLEARED VEGETATION SHALL BE MULCHED AND STOCKPILED FOR RESPREADING AS DIRECTED BY SUPERINTENDENT.
6. THE CONTRACTOR SHALL ALLOW, TO REMOVE TOPSOIL TO A DEPTH OF 100mm MINIMUM, FROM WORK AREAS AND STOCKPILE ON SITE.
7. FOLLOWING THE COMPLETION OF EARTHWORKS THE CONTRACTOR SHALL RESPREAD TOPSOIL AS DIRECTED BY THESE DOCUMENTS OR BY THE SUPERINTENDENT.
8. THE CONTRACTOR SHALL LIMIT THE MOVEMENT OF EQUIPMENT AND MANPOWER TO THE MINIMUM AREA NECESSARY FOR EARTHWORKS AND PROTECT ALL VEGETATION OUTSIDE THE WORKS BOUNDARY.
9. FOR DESIGN DETAILS OF EARTHWORKS WITHIN THE ROAD RESERVES REFER TO THE ROADWORKS LONGITUDINAL AND CROSS SECTION DRAWINGS.
10. CONSIDERATION SHALL BE GIVEN TO ADJACENT LANDOWNERS DURING THE CONSTRUCTION WORKS. REFER TO SPECIFICATION FOR CONTRACTOR NOTIFICATIONS.
11. THE CONTRACTOR SHALL ALLOW FOR ALL DUST CONTROL MEASURES IN ACCORDANCE WITH ICC REQUIREMENTS.
12. THE CONTRACTOR SHALL ALLOW FOR HYDROMULCHING FOR ALL DISTURBED AREAS AS DIRECTED ON SITE IN ACCORDANCE WITH THE SPECIFICATION.
13. ALL NEW WORKS TO MATCH NEATLY TO EXISTING.

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TOTAL EARTHWORKS VOLUMES

TOTAL CUT VOLUMES (m^3) = -18938 (BANK MEASURE)

TOTAL FILL VOLUMES (m^3) = 7832 (BANK MEASURE)

TOTAL BALANCE VOLUMES (m^3) = -11106 (SPOIL) (BANK MEASURE)

NOTE: VOLUMES CALCULATED BETWEEN PRE-DEVELOPMENT EXISTING SURFACE AND THE FINISHED EARTHWORKS SURFACE WITH ALLOWANCE MADE FOR BOXING OUT OF PAVEMENTS AND A 150mm TOPSOIL STRIP AND RESPREAD. NO ALLOWANCE HAS BEEN MADE FOR BULKING OR COMPACTION FACTORS.

STAGE 2 CONSTRUCTION EARTHWORKS VOLUMES

TOTAL CUT VOLUMES (m^3) = -7880

TOTAL FILL VOLUMES (m^3) = 342

TOTAL BALANCE VOLUMES (m^3) = -7538 (SPOIL)

NOTE: VOLUMES CALCULATED BETWEEN STAGE 1 BULK EARTHWORKS FINISHED SURFACE LEVEL AND THE STAGE 2 FINISHED EARTHWORKS SURFACE WITH ALLOWANCE MADE FOR BOXING OUT OF PAVEMENTS BUT WITHOUT TOPSOIL STRIP. NO ALLOWANCE HAS BEEN MADE FOR BULKING OR COMPACTION FACTORS.

RETAINING WALL STUB NOTE:

RETAINING WALLS FOR FUTURE STAGES TO BE BUILT 2 PANEL LENGTHS INTO FUTURE LOT.

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APPROVED RPEQ 29318

TIMOTHY WOOD DATE 08.07.2025

smec an SJ company

0 5 10 20 Scale 1:500

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

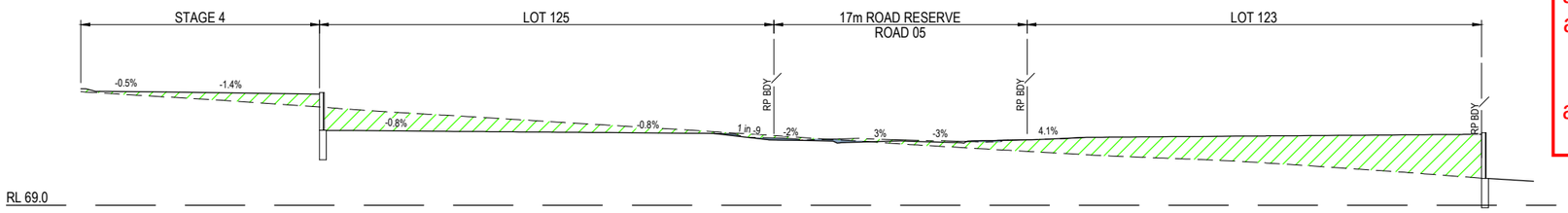
DRAWING TITLE: BULK EARTHWORKS LAYOUT PLAN

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-120	A

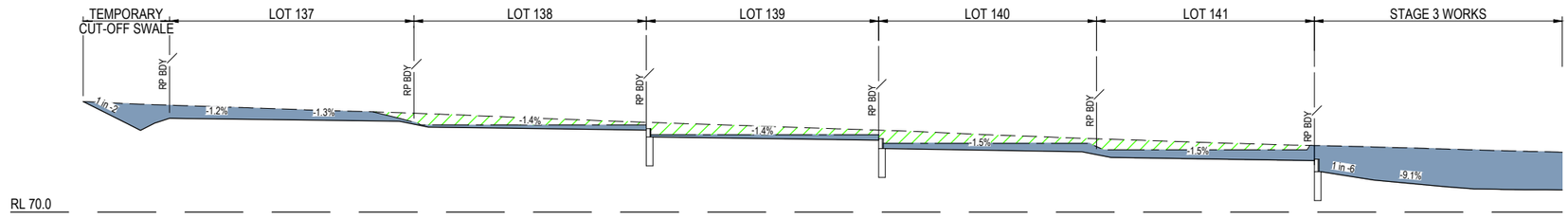
Batters greater than 1 in 4 are to certified as stable by a suitably experienced and qualified RPEQ Engineer and planted out with approved low maintenance landscaoping

NOTES:
1. REFER DRAWING 30032066-02-120 FOR SECTION MARKERS.
2. REFER DRAWING 30032066-02-141 FOR RETAINING WALL DETAILS.

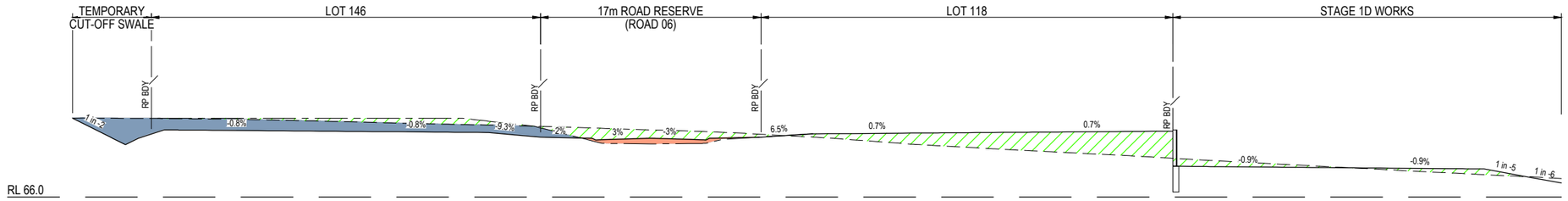
LEGEND
- CUT
- FILL
- STAGE 1 BULK EARTHWORKS
- EXISTING SURFACE
- DESIGN SURFACE
- PROPOSED RETAINING WALL



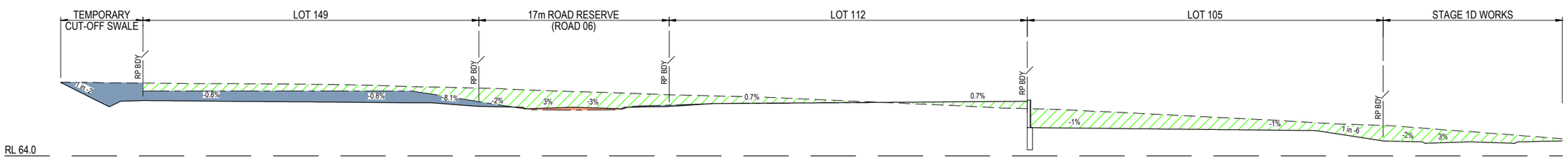
SECTION E 120
SCALE H1:200 V1 1:200



SECTION D 120
SCALE H1:200 V1 1:200



SECTION C 120
SCALE H1:200 V1 1:200



SECTION B 120
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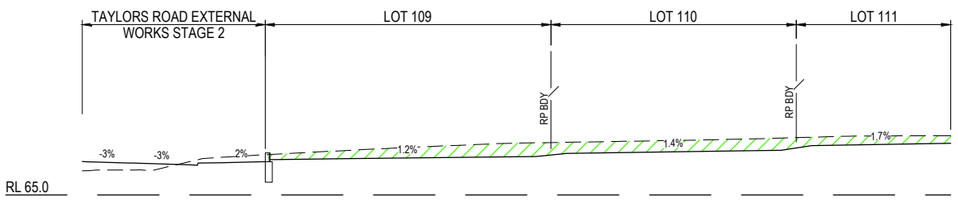

SECTION A 120
SCALE H1:200 V1 1:200

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Retaining walls subject to further approval

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TIMOTHY WOOD DATE 08.07.2025

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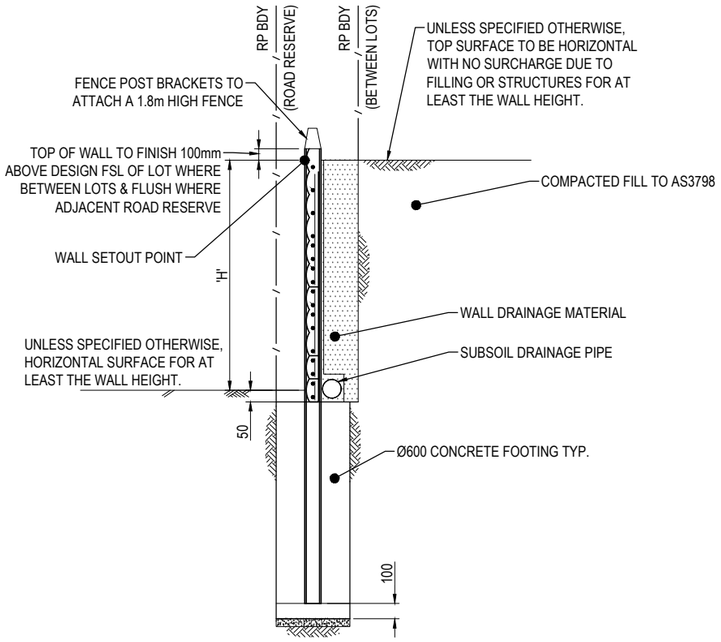
Scale H1:200, V1:200

CLIENT: HIGHLAND WALLOON

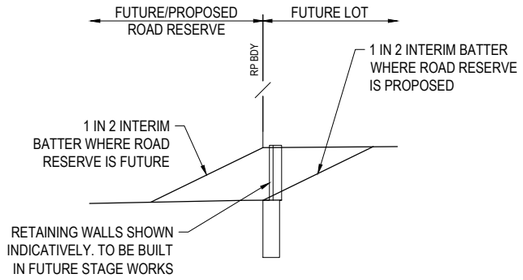
PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: BULK EARTHWORKS SECTIONS

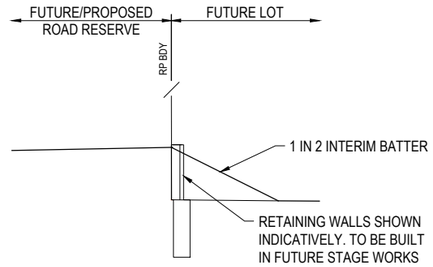
DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-140	A



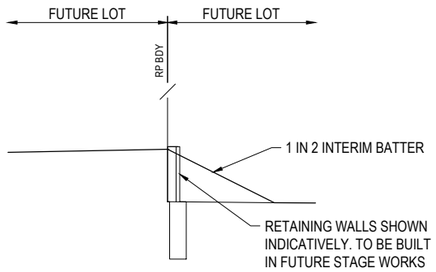
TYPICAL CONCRETE SLEEPER WALL
SCALE 1:25



TYPICAL INTERIM BATTERS BETWEEN ROAD AND FUTURE HIGHER LOT
NTS



TYPICAL INTERIM BATTERS BETWEEN ROAD AND FUTURE LOWER LOT
NTS



TYPICAL INTERIM BATTERS BETWEEN FUTURE LOTS
NTS

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Approval No: 7317/2025/OW

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Retaining walls subject to further approval

RETAINING WALL NOTES:

1. CONCRETE SLEEPERS FACING ROAD RESERVE & OPEN SPACE TO BE "TIMBER LOOK - STORM GREY" FROM QPRO CONCRETE SLEEPERS & PAINTED IN LINE WITH NOTE 2. ALL INTERNAL LOT WALLS TO BE "SMOOTH PLAIN GREY" FROM QPRO CONCRETE SLEEPERS & PAINTED IN LINE WITH NOTE 2.
2. ALL CONCRETE SLEEPERS INCLUDING GALVANIZED POSTS SHALL BE PAINTED ON THE TOP AND BACK SIDE IN LINE WITH THE FOLLOWING PROCESS:
   A. WASH WALLS WITH APPROPRIATE PRODUCT TO CLEAN AND ETCH CONCRETE
   B. APPLY ONE COAT OF GAL PRIME TO ALL GALVANISED POSTS
   C. APPLY ONE COAT OF UNDERCOAT TO CONCRETE WALLS AND POSTS
   D. APPLY TWO COATS OF SUNSHIELD COLOURBOND 'NIGHT SKY' TO CONCRETE WALLS AND POSTS
3. ALL WALLS TO BE DESIGNED WITH AN APPROPRIATE BRACKET TO FACILITATE A 1.8m HIGH FENCE BUILT ON TOP.
4. PRIVATE WALLS (INCLUDING FOOTING) TO BE WHOLLY CONTAINED WITHIN PRIVATE PROPERTY WHERE ADJACENT ROAD RESERVE/PARK.
5. PRIVATE WALLS TO BE FULLY CONTAINED (INCLUDING FOOTING & DRAINAGE) WITHIN LOWER LOT WHERE ADJACENT PRIVATE LOT.
6. ALL RETAINING WALL PARAMETERS ARE TO BE CONFIRMED AS PART OF CONTRACTORS RETAINING WALL DESIGN SUPPORTED BY FORM 15 CERTIFICATION.

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TIMOTHY WOOD DATE: 08.07.2025

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Scale 1:25

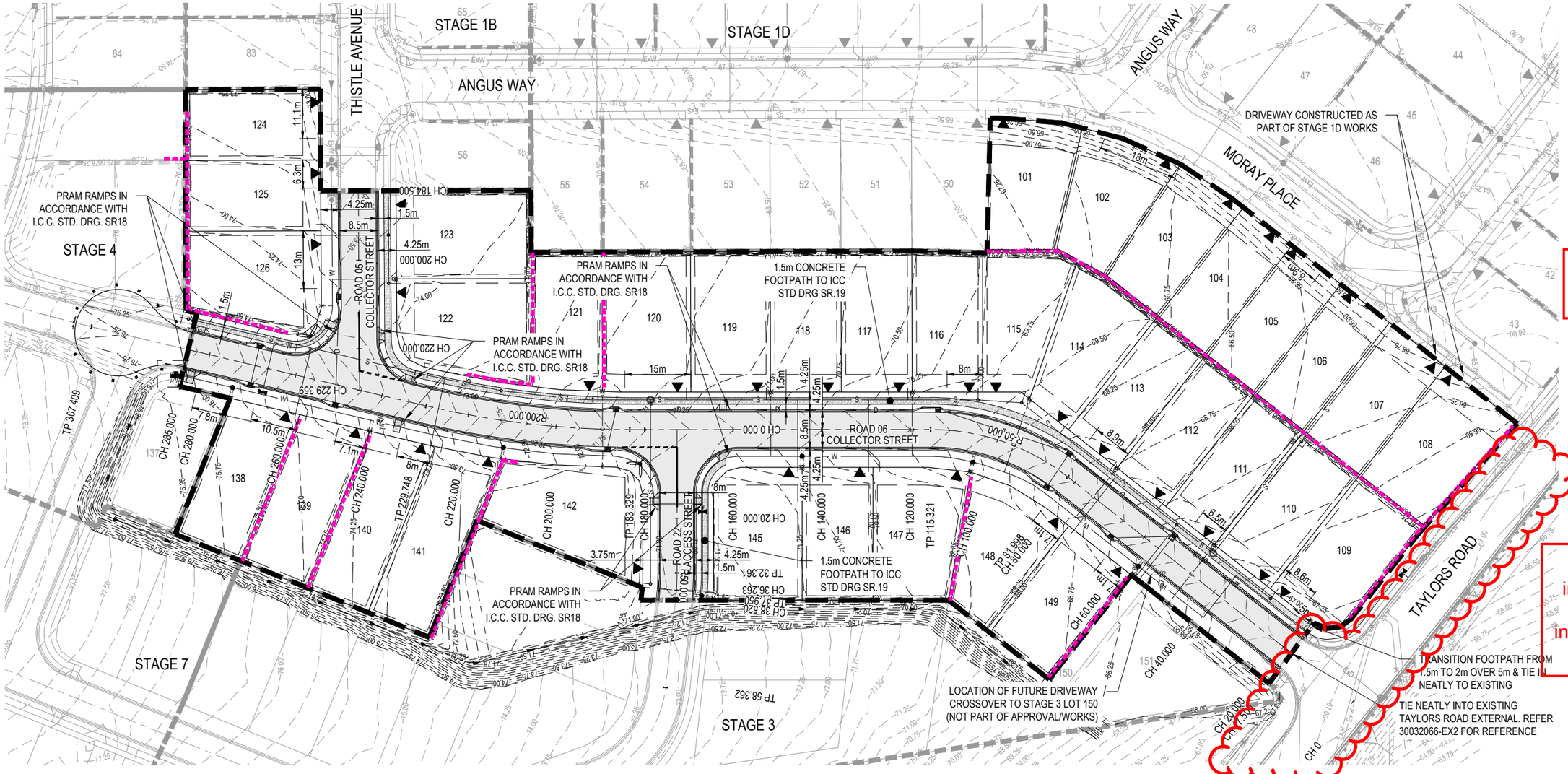
0 1 2 4
Scale 1:100

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: BULK EARTHWORKS RETAINING WALL DETAILS

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-141	A



Retaining walls subject to further approval

Taylors Road intersection design integrated with intersection approval 11807/2024/OW

LEGEND

- STAGE BOUNDARY
- 14.0 FINISHED SURFACE CONTOUR (0.25m INTERVAL)
- 14.0 EXISTING SURFACE CONTOUR (0.25m INTERVAL)
- PROPOSED ROAD CONTROL LINE
- PROPOSED RETAINING WALL
- EXISTING RETAINING WALL
- D PROPOSED STORMWATER DRAINAGE PIPE
- S PROPOSED SEWER MAIN
- W PROPOSED WATER MAIN
- PROPOSED NEW PAVEMENT
- PROPOSED CONCRETE FOOTPATH AND KERB RAMP
- FUTURE DRIVEWAY AND CROSSOVER (INDICATIVE LOCATION ONLY SUBJECT TO BUILDING APPROVAL)
- ExD EXISTING STORMWATER DRAINAGE PIPE
- ExS EXISTING SEWER MAIN
- ExW EXISTING WATER MAIN

ASSUMED PAVEMENT DETAILS

ROAD	ROAD CLASSIFICATION	ASSUMED CBR	DESIGN ESAs	SURFACING	BASE (mm)	UPPER SUB BASE (mm)	LOWER SUB BASE (mm)	TOTAL PAVEMENT DEPTH EXCLUDING AC (mm)	TOTAL PAVEMENT DEPTH INCLUDING AC (mm)
ROAD 05 (MC05) - THISTLE AVENUE	COLLECTOR STREET	3	2.0×10^5	35 mm AC10	125	100	200	425	460
ROAD 06 (MC06) - TBC	COLLECTOR STREET	3	2.0×10^5	35 mm AC10	125	100	200	425	460
ROAD 22 (MC22) - TBC	ACCESS STREET	3	1.0×10^5	35 mm AC10	125	100	165	390	425

PAVEMENT NOTES:

1. MINIMUM PAVEMENT DESIGN IS PRELIMINARY ONLY AND BASED ON ASSUMED SUBGRADE CBR. ACTUAL PAVEMENT WILL BE BASED ON ACTUAL SUBGRADE TEST RESULTS.
2. THE CONTRACTOR IS RESPONSIBLE TO SUPPLY THE SUPERINTENDENT WITH THE NECESSARY SUBGRADE TEST RESULTS, REQUIRED FOR THE FINAL PAVEMENT DESIGN.
3. THE PAVEMENT GRAVEL SHALL EXTEND TO MINIMUM 150mm BEHIND BACK OF KERB.
4. BOXING DEPTH SHOWN ON CROSS-SECTIONS IS INDICATIVE ONLY.
5. REFER TO INTERSECTION DETAILS FOR LEVELS.

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smec an Su company

0 5 10 20
Scale 1:500

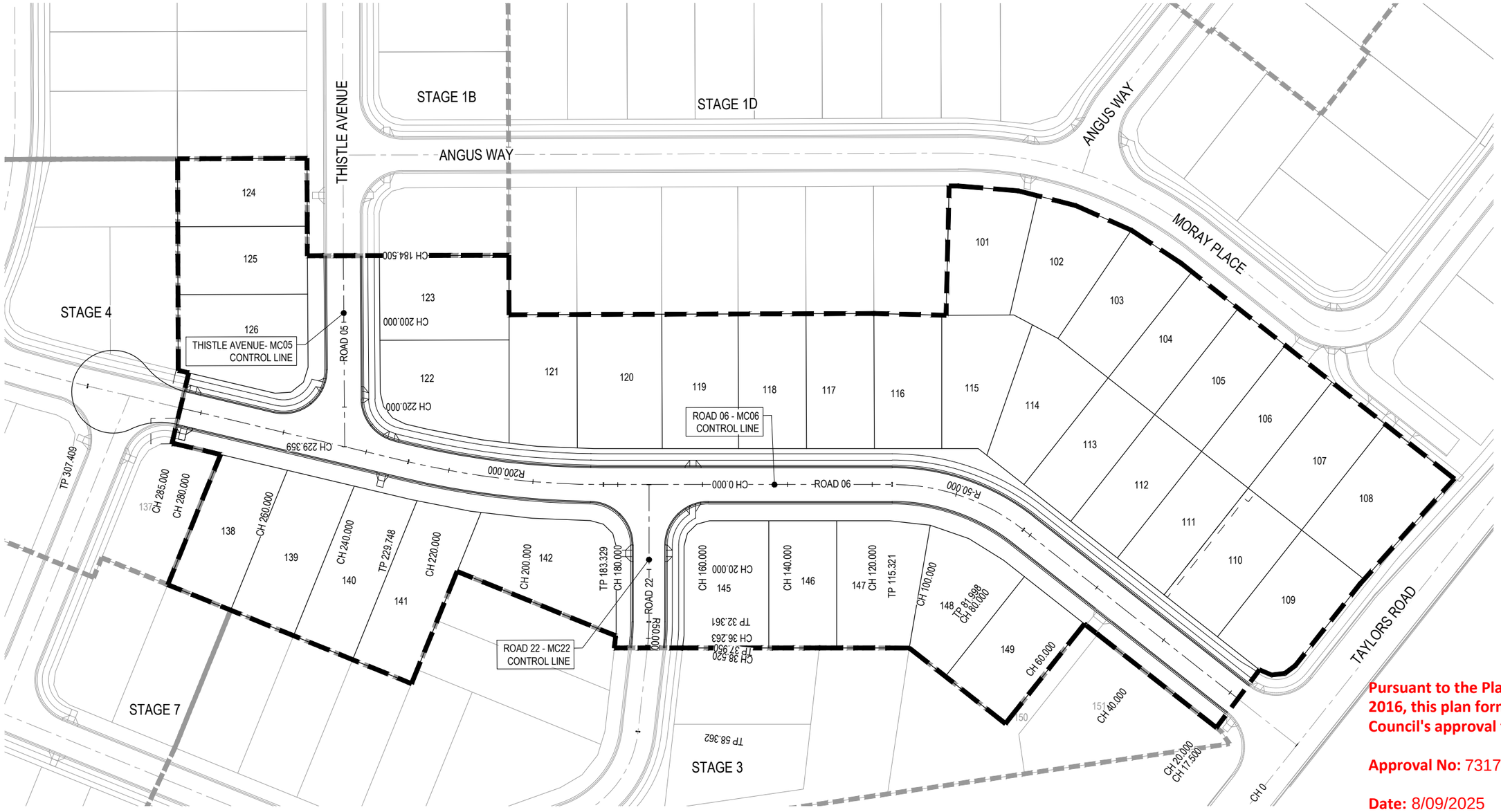
N

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: ROADWORKS LAYOUT PLAN

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-200	A



Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

Date: 8/09/2025

LEGEND

- STAGE BOUNDARY
- PROPOSED ROAD CONTROL LINE
- PROPOSED CONCRETE FOOTPATH AND KERB RAMP

NOTE:
REFER TO CONTROL LINE SETOUT TABLES ON DRG 212

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: **ISSUED FOR APPROVAL**

APPROVED
TIMOTHY WOOD
RPEQ: 29318
DATE 08.07.2025

smec an Su company

0 5 10 20
Scale 1:500

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: CONTROL LINE SETOUT LAYOUT PLAN

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-210	A

ROAD 06 - MC06 - CONTROL LINE SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP1	0.000	464872.900	6947858.162		8°20'41.70"			
TC	81.998	464884.800	6947939.292	68.801	8°20'41.70"			
IP2	98.660	464887.312	6947956.415	69.366		-50.000	33.323	38°11'7.14"
CT	115.321	464878.700	6947971.428	69.874	330°9'34.56"			
TC	183.329	464844.861	6948030.419	71.611	330°9'34.56"			
IP3	206.539	464833.260	6948050.642	72.504		200.000	46.419	13°17'52.79"
CT	229.748	464826.622	6948072.991	73.568	343°27'27.34"			
TC	307.409	464804.510	6948147.438	77.040	343°27'27.34"			

EXISTING STAGE 2 EXTERNAL WORKS
PROPOSED STAGE 2
FUTURE STAGE 4

ROAD 22 - MC22 - CONTROL LINE SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP1	0.000	464850.189	6948021.140		240°9'47.86"			
TC	32.361	464822.118	6948005.039	71.086	8°20'41.70"			
IP2	35.156	464819.691	6948003.647	71.072		50.000	5.589	6°24'17.08"
CT	37.950	464817.124	6948002.535	71.058	246°34'4.94"			
TC	58.362	464798.395	6947994.418	70.968	246°34'4.94"			

PROPOSED STAGE 2
FUTURE STAGE 3

THISTLE AVENUE / ROAD 05 - MC05 - CONTROL LINE SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP1	0.000	465020.404	6948203.250	62.002	239°46'28.58"			
IP2	229.359	464822.226	6948087.790	74.276	239°46'28.58"			

EXISTING STAGE 1A
PROPOSED STAGE 2

Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

Date: 8/09/2025

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: **ISSUED FOR APPROVAL**

APPROVED RPEQ: 29318

TIMOTHY WOOD DATE: 08.07.2025

smec an Su company

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: CONTROL LINE SETOUT TABLES

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-211	A

LEGEND

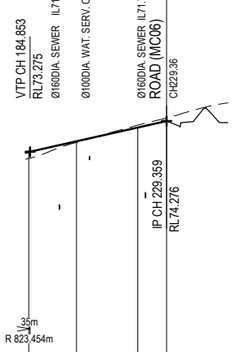
EXISTING SURFACE

EXISTING SURFACE

Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

Date: 8/09/2025



Vertical Curve Length (m) — 35m
Vertical Curve Radius (m) — R 823.454m

Vertical Geometry Grade (%) — 2.25%
Vertical Geometry Length (m) — 62.005m

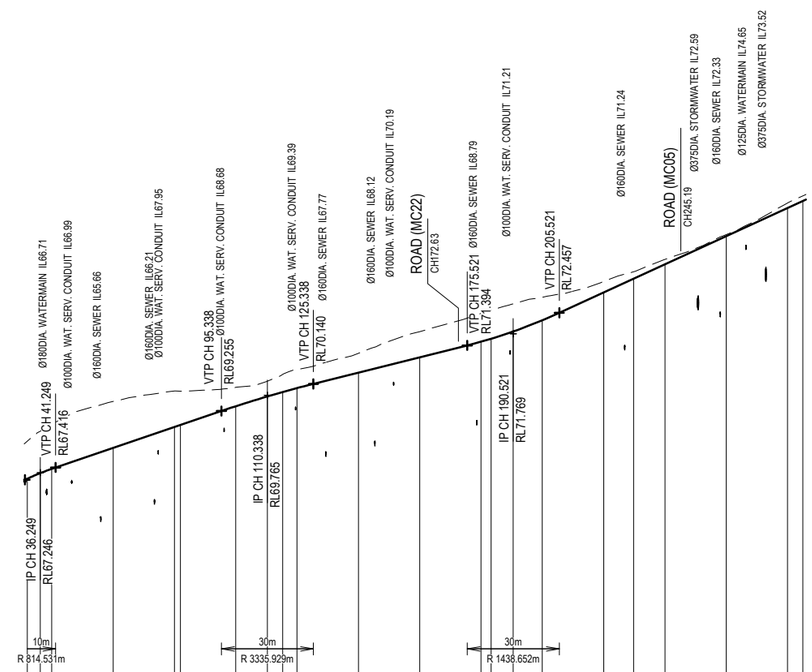
Horizontal Curve Length (m)
Horizontal Curve Radius (m)

DATUM RL 63.000

CUT / FILL DEPTH TO EXISTING SURFACE	0.206	0.033	-0.076	-0.098
KERB LIP LHS		73.496	73.934	74.905
KERB LIP RHS		73.496	75.222	73.407
DESIGN LEVELS ROAD CENTRELINE	73.264	73.616	74.066	74.276
EXISTING SURFACE LEVELS	73.058	73.583	74.141	74.374
CONTROL LINE CHAINAGE ROAD CENTRELINE	184.396	200.000	220.000	229.359

ROAD 05 - MC05

SCALE: HORIZONTAL - 1:1000
VERTICAL - 1:100



Vertical Curve Length (m) — 10m | 30m | 30m
Vertical Curve Radius (m) — R 814.531m | R 3335.929m | R 1438.652m

Vertical Geometry Grade (%) — 4.627% | 3.399% | 2.5% | 4.585%
Vertical Geometry Length (m) — 13.748m | 74.088m | 80.183m | 119.982m

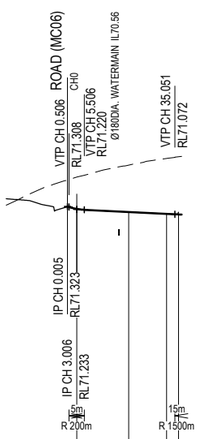
Horizontal Curve Length (m) — 33.323m | 46.419m
Horizontal Curve Radius (m) — R -50m | R 200m

DATUM RL 57.000

CUT / FILL DEPTH TO EXISTING SURFACE	-1.223	-1.365	-1.455	-1.512	-1.173	-1.103	-0.615	-0.496	-0.575	-0.609	-0.632	-0.839	-0.925	-0.932	-0.904	-0.748	-0.354	-0.225	-0.159	-0.053	-0.165	-0.17
KERB LIP LHS	66.931	67.111	67.254	67.934	68.614	68.682	69.291	69.612	69.755	69.883	70.387	70.886	71.315	71.475	71.729	72.095	73.002	73.449	73.919	74.836	75.753	
KERB LIP RHS	66.931	67.111	67.254	67.934	68.614	68.682	69.291	69.612	69.755	69.883	70.387	70.887	71.394	71.491	71.729	72.095	73.002	73.449			75.753	75.872
DESIGN LEVELS ROAD CENTRELINE	67.051	67.231	67.373	68.054	68.733	68.801	69.410	69.731	69.874	70.002	70.506	71.006	71.513	71.611	71.847	72.215	73.121	73.568	74.038	74.955		
EXISTING SURFACE LEVELS	68.274	68.596	68.828	69.565	69.907	69.904	70.025	70.227	70.449	70.611	71.139	71.845	72.438	72.543	72.751	72.962	73.475	73.793	74.197	75.008	76.037	76.272
CONTROL LINE CHAINAGE ROAD CENTRELINE	32.033	36.249	40.000	60.000	80.000	81.998	100.000	110.338	115.321	120.000	140.000	160.000	180.000	183.329	190.521	200.000	220.000	229.748	240.000	260.000	280.000	285.000

ROAD 06 - MC06

SCALE: HORIZONTAL - 1:1000
VERTICAL - 1:100



Vertical Curve Length (m) — 5m | 15m
Vertical Curve Radius (m) — R 200m | R 1500m

Vertical Geometry Grade (%) — -3% | -0.5%
Vertical Geometry Length (m) — 3.001m | 39.545m

Horizontal Curve Length (m) — 5.589m
Horizontal Curve Radius (m) — R 50m

DATUM RL 60.000

CUT / FILL DEPTH TO EXISTING SURFACE		-1.035	-1.528	-1.807	-1.882
KERB LIP LHS	73.136	72.220	71.036	70.974	
KERB LIP RHS	69.158	68.941	71.036	70.974	
DESIGN LEVELS ROAD CENTRELINE		71.248	71.148	71.086	71.067
EXISTING SURFACE LEVELS	72.193	72.283	72.676	72.893	72.949
CONTROL LINE CHAINAGE ROAD CENTRELINE	0.000	3.006	20.000	32.361	36.236

ROAD 22 - MC22

SCALE: HORIZONTAL - 1:1000
VERTICAL - 1:100

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: **ISSUED FOR APPROVAL**

APPROVED — RPEQ: 29318

TIMOTHY WOOD — DATE 08.07.2025

smec — an Su company

0 10 20 40
0 1 2 4
Scale H1:1000, V1:100

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: ROADWORKS ROAD 5, 6 & 22 LONGITUDINAL SECTION

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-220	A

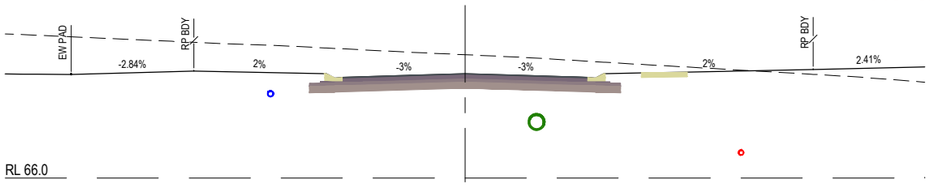
Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

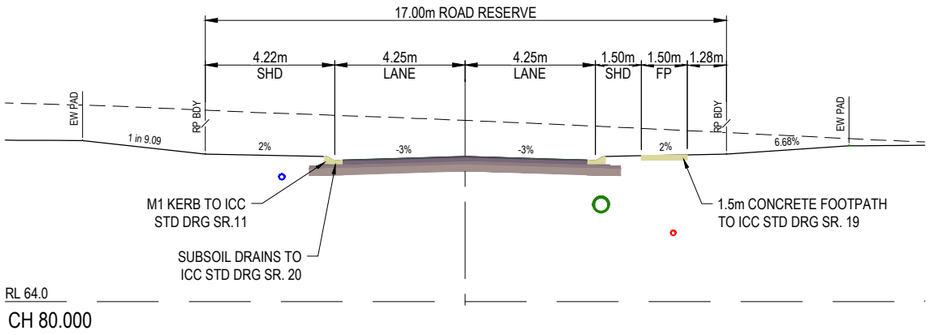
Date: 8/09/2025

LEGEND

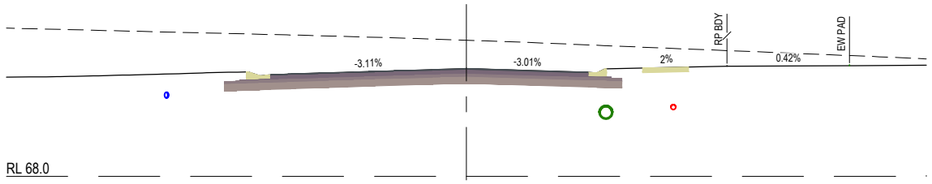
- EXISTING SURFACE
- FINISHED SURFACE
- PROPOSED WATER PIPE
- PROPOSED SEWER PIPE
- PROPOSED STORMWATER DRAINAGE PIPE



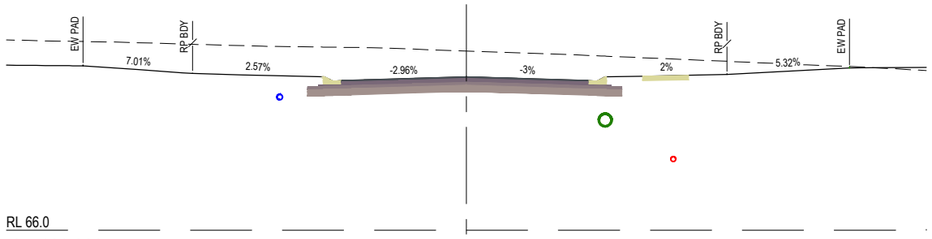
CH 100.000



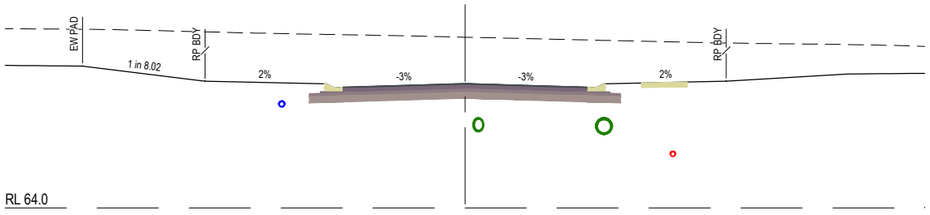
CH 80.000



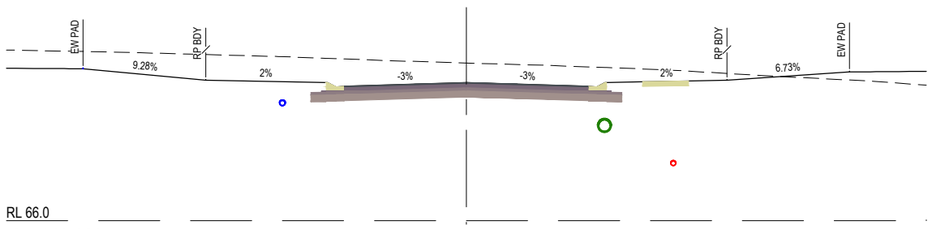
CH 180.000



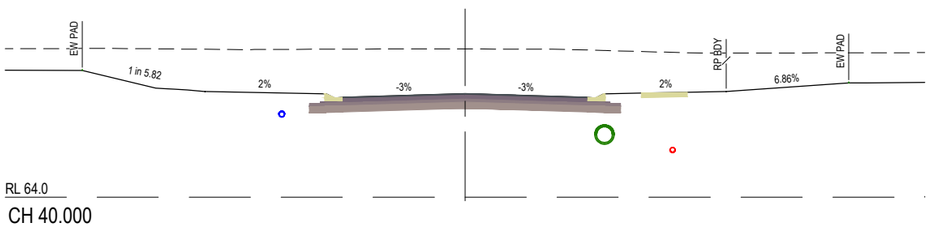
CH 160.000



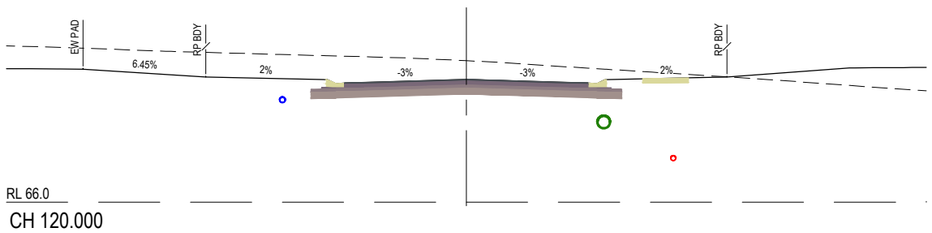
CH 60.000



CH 140.000



CH 40.000



CH 120.000

ROAD 06 - MC06

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: ISSUED FOR APPROVAL

APPROVED

TIMOTHY WOOD

RPEQ: 29318

DATE: 08.07.2025

smec an Su company

0 10 20 40
Scale 1:1000

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: ROADWORKS
ROAD 6 CROSS SECTIONS
SHEET 1 OF 2

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-240	A

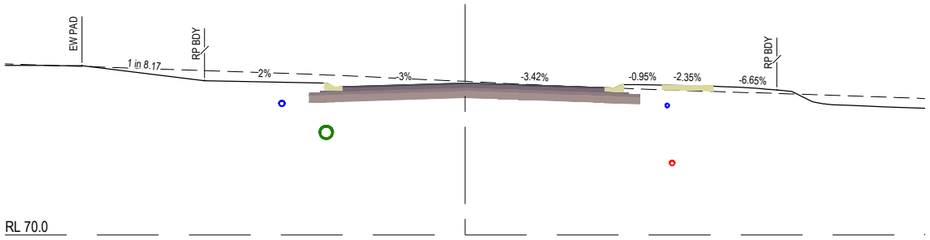
Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

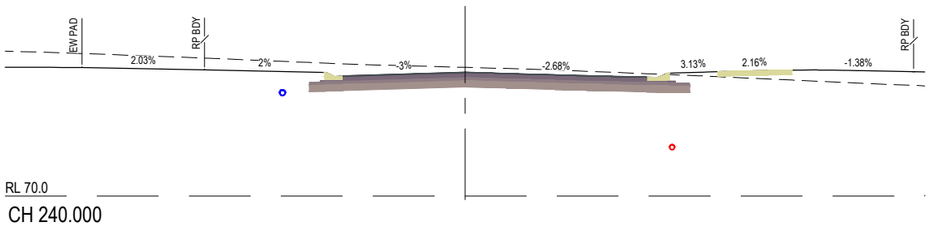
Approval No: 7317/2025/OW

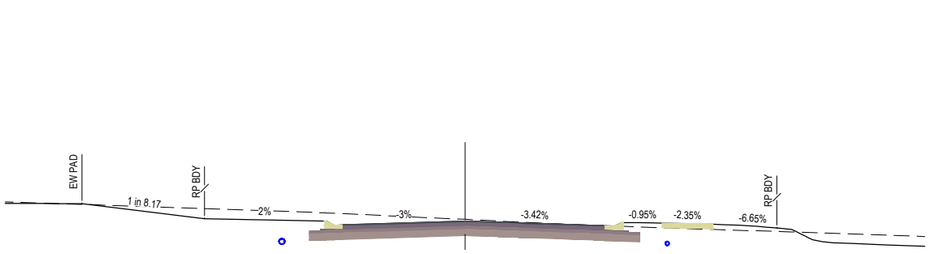
Date: 8/09/2025

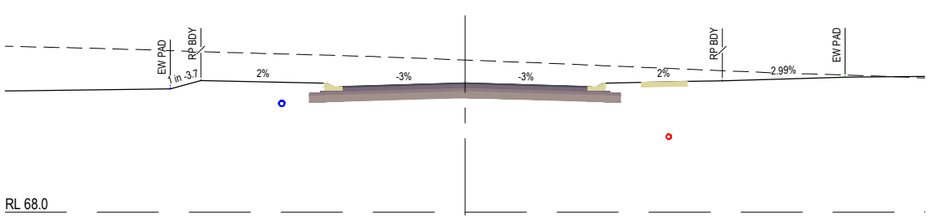
LEGEND

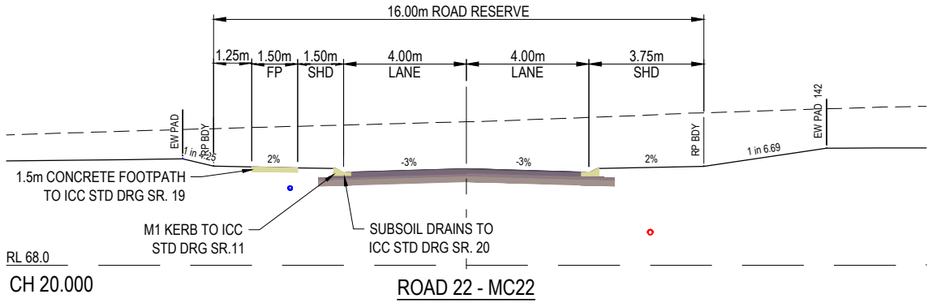
- EXISTING SURFACE
- FINISHED SURFACE
- PROPOSED WATER PIPE
- PROPOSED SEWER PIPE
- PROPOSED STORMWATER DRAINAGE PIPE



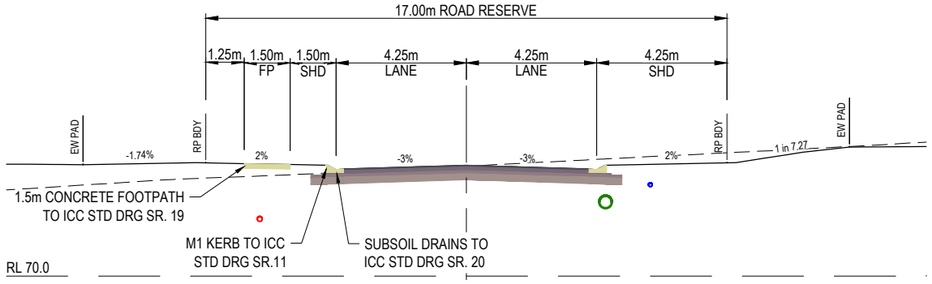




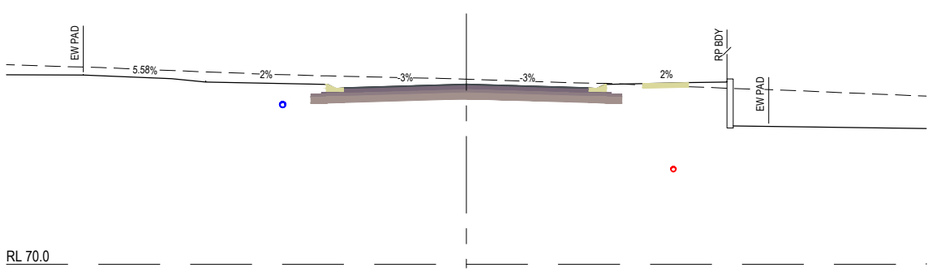




ROAD 22 - MC22



ROAD 05 - MC05



ROAD 06 - MC06

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: ISSUED FOR APPROVAL

APPROVED RPEQ: 29318

TIMOTHY WOOD DATE: 08.07.2025

smec an SU company

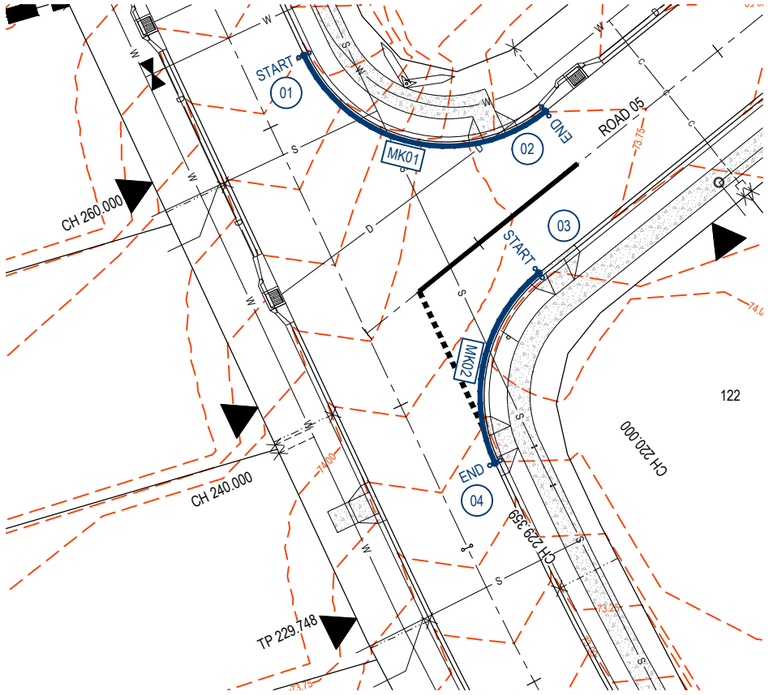
0 1 2 4
Scale 1:100

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: ROADWORKS
ROAD 5, 6 & 22 CROSS SECTIONS
SHEET 2 OF 2

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-241	A



ROAD 05 & ROAD 06 INTERSECTION
SCALE 1:200

LEGEND

- PROPOSED KERB SETOUT
- PROPOSED CONCRETE FOOTPATH AND KERB RAMP
- PROPOSED SURFACE CONTOURS (0.25m INTERVAL)
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED SEWER MAIN
- PROPOSED WATER MAIN
- STREET NAME SIGN
- FUTURE DRIVEWAY AND CROSSOVER (INDICATIVE LOCATION ONLY SUBJECT TO BUILDING APPROVAL)

NOTES

1. ALL SETOUT INFORMATION SHOWN ON THIS DRAWING IS AVAILABLE IN DIGITAL FORMAT UPON REQUEST BY THE CONTRACTOR.
2. FOOTPATH AND PRAM RAMP DETAILS - REFER IPSWICH CITY COUNCIL STANDARD DRAWINGS SR.18 AND SR.19 FOR DETAILS.
3. ALL KERB RADII ARE TO LIP OF KERB LINE UNLESS NOTED OTHERWISE.
4. ALL SETOUT POINTS ARE TO LIP OF KERB LINE UNLESS NOTED OTHERWISE.
5. NOMINATED LEVELS ARE TO LIP OF KERB AND CHANNEL OR PAVEMENT LEVEL FOR MEDIAN KERB.
6. SIGNAGE TO BE INSTALLED REFER AS PER MUTCD GUIDELINES. REFER AS 1742 & AS 1742.2 FOR ADDITIONAL INFORMATION.

Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

Date: 8/09/2025

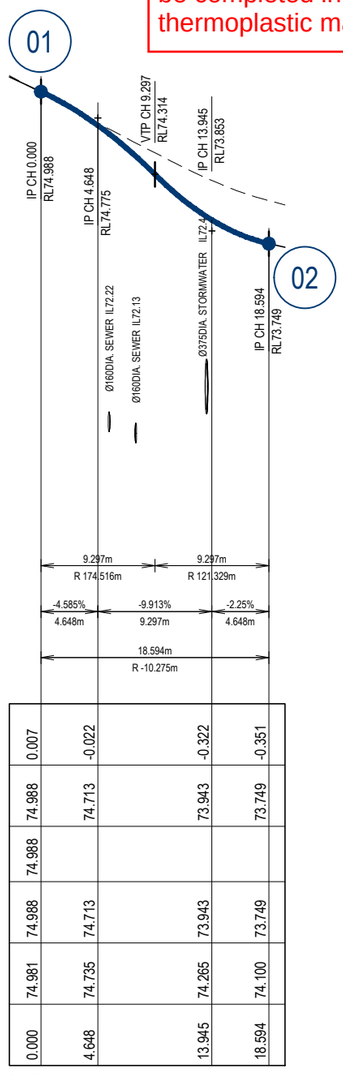
Continuity lines and transverse markings across intersections (where required) are to be completed in a long life material such as thermoplastic materials.

MK01 SETOUT TABLE

POINT NO.	CHAINAGE	EASTING	NORTHING	HEIGHT	RADIUS	A.LENGTH	DEFLECTION ANGLE
01	0.000	464820.873	6948106.307	74.988			
	9.297	464824.5960	6948093.771	74.314	-10.275	18.594	103°40'58.76"
02	18.594	464835.8950	6948100.354	73.749			

MK02 SETOUT TABLE

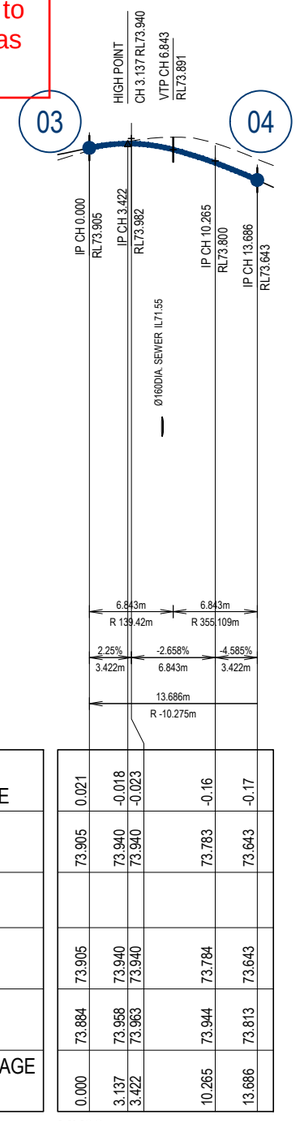
POINT NO.	CHAINAGE	EASTING	NORTHING	HEIGHT	RADIUS	A.LENGTH	DEFLECTION ANGLE
03	0.000	464833.902	6948089.992	73.905			
	6.843	464826.926	6948085.925	73.891	-10.275	13.686	76°19'1.24"
04	13.686	464829.225	6948078.188	73.643			



DATUM RL 70.000

CUT / FILL DEPTH TO EXISTING SURFACE	0.007	-0.022		-0.322	-0.351
KERB LIP LHS	74.988	74.713		73.943	73.749
KERB LIP RHS	74.988				
DESIGN LEVELS ROAD CENTRELINE	74.988	74.713		73.943	73.749
EXISTING SURFACE LEVELS	74.981	74.735		74.265	74.100
CONTROL LINE CHAINAGE ROAD CENTRELINE	0.000	4.648		13.945	18.594

MK01
SCALE: HORIZONTAL - 1:250
VERTICAL - 1:25



DATUM RL 69.000

CUT / FILL DEPTH TO EXISTING SURFACE	0.021	-0.018	-0.023	-0.16	-0.17
KERB LIP LHS	73.905	73.940	73.940	73.783	73.643
KERB LIP RHS					
DESIGN LEVELS ROAD CENTRELINE	73.905	73.940	73.940	73.784	73.643
EXISTING SURFACE LEVELS	73.884	73.958	73.963	73.944	73.813
CONTROL LINE CHAINAGE ROAD CENTRELINE	0.000	3.137	3.422	10.265	13.686

MK02
SCALE: HORIZONTAL - 1:250
VERTICAL - 1:25

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: ISSUED FOR APPROVAL
APPROVED
TIMOTHY WOOD
RPEQ: 29318
DATE 08.07.2025

smec an Su company

0 2 4 8
Scale 1:200

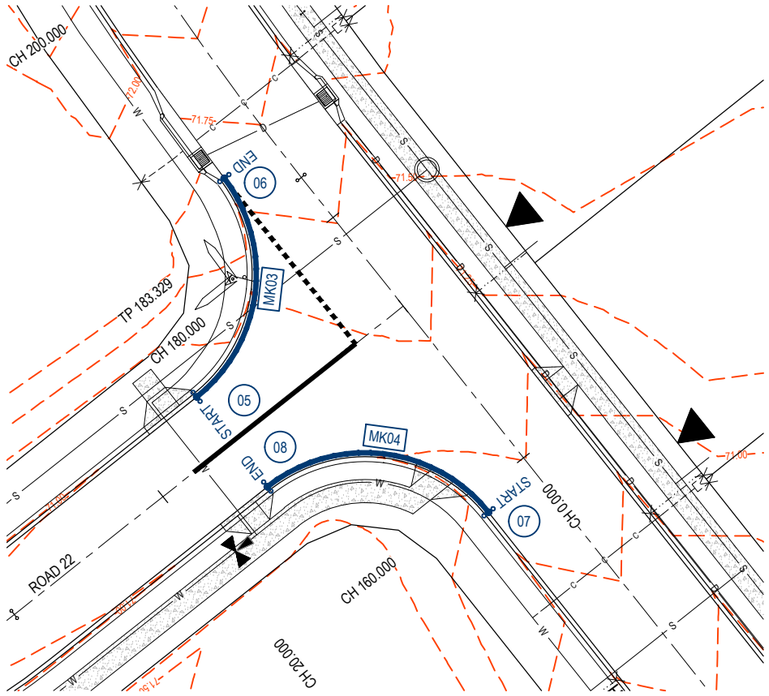
N

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: ROADWORKS INTERSECTION DETAILS SHEET 1 OF 2

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-260	A



ROAD 22 & ROAD 06 INTERSECTION
SCALE 1:200

LEGEND

- PROPOSED KERB SETOUT (START / END)
- PROPOSED CONCRETE FOOTPATH AND KERB RAMP
- PROPOSED SURFACE CONTOURS (0.25m INTERVAL) — 78.0
- PROPOSED STORMWATER DRAINAGE PIPE — D
- PROPOSED SEWER MAIN — S
- PROPOSED WATER MAIN — W
- STREET NAME SIGN
- FUTURE DRIVEWAY AND CROSSOVER (INDICATIVE LOCATION ONLY SUBJECT TO BUILDING APPROVAL)

NOTES

1. ALL SETOUT INFORMATION SHOWN ON THIS DRAWING IS AVAILABLE IN DIGITAL FORMAT UPON REQUEST BY THE CONTRACTOR.
2. FOOTPATH AND PRAM RAMP DETAILS - REFER IPSWICH CITY COUNCIL STANDARD DRAWINGS SR.18 AND SR.19 FOR DETAILS.
3. ALL KERB RADII ARE TO LIP OF KERB LINE UNLESS NOTED OTHERWISE.
4. ALL SETOUT POINTS ARE TO LIP OF KERB LINE UNLESS NOTED OTHERWISE.
5. NOMINATED LEVELS ARE TO LIP OF KERB AND CHANNEL OR PAVEMENT LEVEL FOR MEDIAN KERB.
6. SIGNAGE TO BE INSTALLED REFER AS PER MUTCD GUIDELINES. REFER AS 1742 & AS 1742.2 FOR ADDITIONAL INFORMATION.

Continuity lines and transverse markings across intersections (where required) are to be completed in a long life material such as thermoplastic materials.

Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

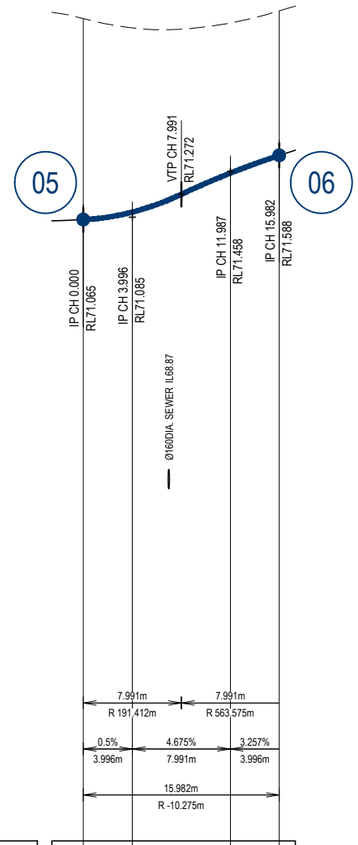
Date: 8/09/2025

MK03 SETOUT TABLE

POINT NO.	CHAINAGE	EASTING	NORTHING	HEIGHT	RADIUS	A.LENGTH	DEFLECTION ANGLE
05	0.000	464835.992	6948017.291	71.065			
	7.991	464844.769	6948022.325	71.272	-10.275	15.982	89ø7'15.51"
06	15.982	464839.901	6948031.124	71.588			

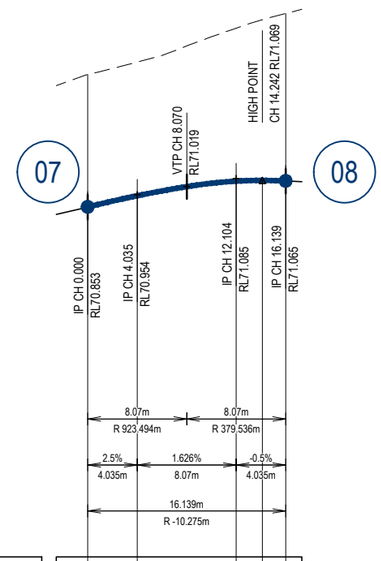
MK04 SETOUT TABLE

POINT NO.	CHAINAGE	EASTING	NORTHING	HEIGHT	RADIUS	A.LENGTH	DEFLECTION ANGLE
07	0.000	464853.703	6948007.016	70.853			
	8.070	464848.590	6948015.929	71.019	-10.275	16.139	89°59'46.70"
08	16.139	464839.682	6948010.817	71.065			



Vertical Curve Length (m) / Vertical Curve Radius (m)		7.991m R 191.412m	7.991m R 563.575m	
Vertical Geometry Grade (%) / Vertical Geometry Length (m)		0.5% 3.996m	4.675% 7.991m	3.257% 3.996m
Horizontal Curve Length (m) / Horizontal Curve Radius (m)		15.982m R -10.275m		
DATUM RL 66.000				
CUT / FILL DEPTH TO EXISTING SURFACE	-1.639	-1.501	-1.224	-1.179
KERB LIP LHS	71.065	71.126	71.444	71.588
KERB LIP RHS	71.065		71.362	71.588
DESIGN LEVELS ROAD CENTRELINE	71.065	71.126	71.444	71.588
EXISTING SURFACE LEVELS	72.703	72.628	72.668	72.767
CONTROL LINE CHAINAGE ROAD CENTRELINE	0.000	3.996	11.987	15.982

MK03
SCALE: HORIZONTAL - 1:250
VERTICAL - 1:25



Vertical Curve Length (m) / Vertical Curve Radius (m)		8.07m R 923.494m	8.07m R 379.536m		
Vertical Geometry Grade (%) / Vertical Geometry Length (m)		2.5% 4.035m	1.626% 8.07m	-0.5% 4.035m	
Horizontal Curve Length (m) / Horizontal Curve Radius (m)		16.139m R -10.275m			
DATUM RL 68.000					
CUT / FILL DEPTH TO EXISTING SURFACE	-1.08	-1.089	-1.248	-1.31	-1.366
KERB LIP LHS	70.853	70.945	71.063	71.069	71.065
KERB LIP RHS	70.853	71.041		67.158	71.065
DESIGN LEVELS ROAD CENTRELINE	70.853	70.945	71.063	71.069	71.065
EXISTING SURFACE LEVELS	71.933	72.034	72.311	72.380	72.430
CONTROL LINE CHAINAGE ROAD CENTRELINE	0.000	4.035	12.104	14.242	16.139

MK04
SCALE: HORIZONTAL - 1:250
VERTICAL - 1:25

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: ISSUED FOR APPROVAL
APPROVED
TIMOTHY WOOD
RPEQ: 29318
DATE: 08.07.2025

smec an SJ company

0 2 4 8
Scale 1:200

N

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: ROADWORKS INTERSECTION DETAILS SHEET 2 OF 2

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-261	A

Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

Date: 8/09/2025

LEGEND

- STAGE BOUNDARY
- BL — LINE MARKING - BARRIER
- GW — LINE MARKING - GIVEWAY
- ROAD SIGN
- STREET NAME SIGN

NOTES:

1. ALL SIGNS AND LINEMARKING TO BE IN ACCORDANCE WITH THE MUTCD.
2. LINE-MARKING AND SIGNAGE IS TO BE CONSTRUCTED IN ACCORDANCE WITH AS1742.2-2009 - PAVEMENT MARKINGS AND AS1742.10-2009 - PEDESTRIAN CONTROL AND PROTECTION.
3. EXTENT OF LINE-MARKING IS TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO INSTALLATION.
4. EXACT LOCATION OF ALL SIGNS IS TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO INSTALLATION.
5. INSTALL TACTILE GROUND SURFACE INDICATORS (TGSI'S) TO AS1428 TO ALL NEW KERB RAMPS.
6. REFER TO IPWEAQ STANDARD DRAWING SEQ R-130 FOR STREET SIGN DETAILS.
7. REFER TO IPWEAQ STANDARD DRAWING SEQ R-131 FOR TRAFFIC SIGN DETAILS.

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: **ISSUED FOR APPROVAL**

APPROVED RPEQ: 29318

TIMOTHY WOOD DATE 08.07.2025

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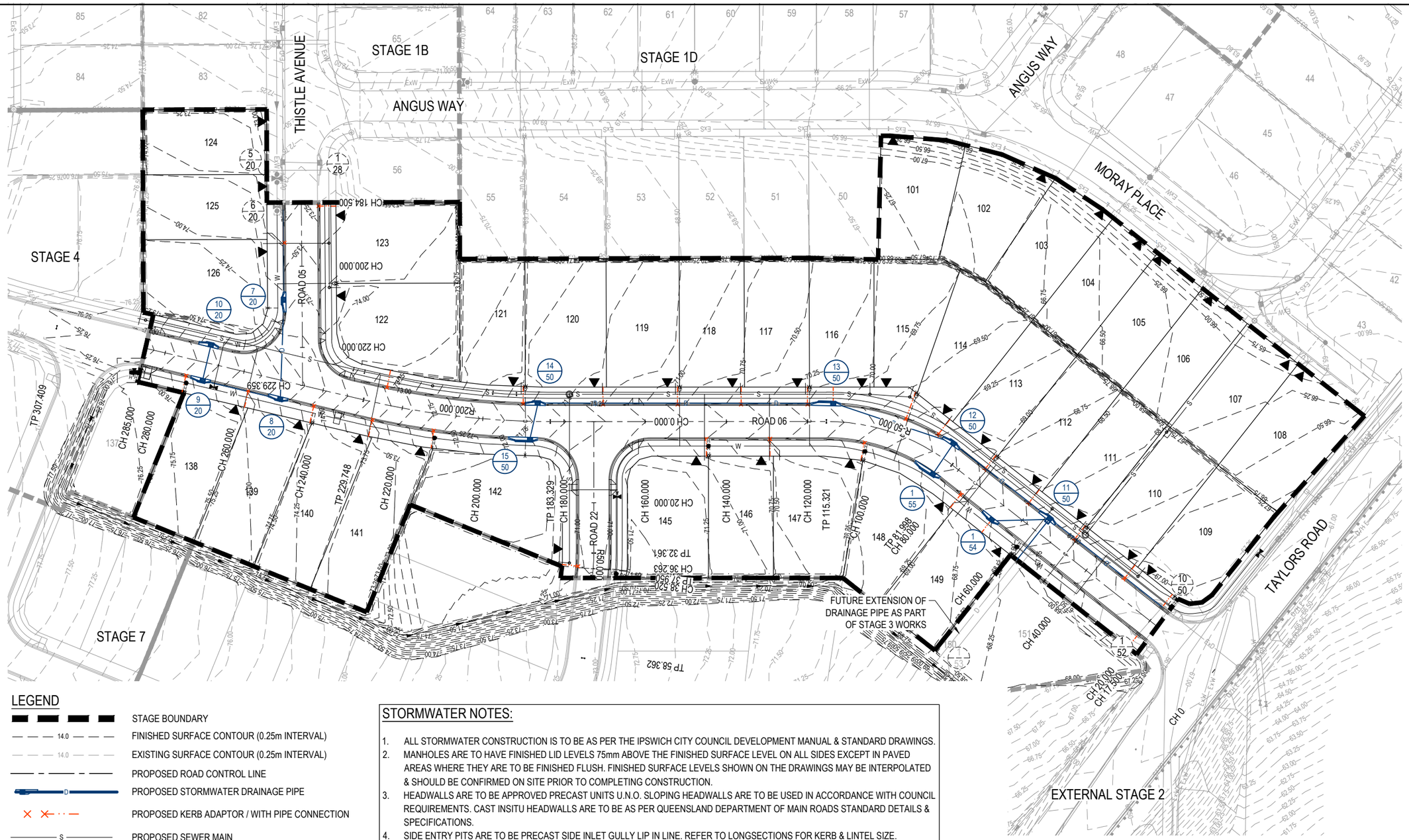
0 5 10 20
Scale 1:500

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: ROADWORKS SIGNAGE & LINEMARKING

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-280	A



LEGEND

- STAGE BOUNDARY
- FINISHED SURFACE CONTOUR (0.25m INTERVAL)
- EXISTING SURFACE CONTOUR (0.25m INTERVAL)
- PROPOSED ROAD CONTROL LINE
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED KERB ADAPTOR / WITH PIPE CONNECTION
- PROPOSED SEWER MAIN
- PROPOSED WATER MAIN
- FUTURE DRIVEWAY AND CROSSOVER (INDICATIVE LOCATION ONLY SUBJECT TO BUILDING APPROVAL)
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- PROPOSED STORMWATER STRUCTURE LABELS
- EXISTING STORMWATER STRUCTURE LABELS

STORMWATER NOTES:

1. ALL STORMWATER CONSTRUCTION IS TO BE AS PER THE IPSWICH CITY COUNCIL DEVELOPMENT MANUAL & STANDARD DRAWINGS.
2. MANHOLES ARE TO HAVE FINISHED LID LEVELS 75mm ABOVE THE FINISHED SURFACE LEVEL ON ALL SIDES EXCEPT IN PAVED AREAS WHERE THEY ARE TO BE FINISHED FLUSH. FINISHED SURFACE LEVELS SHOWN ON THE DRAWINGS MAY BE INTERPOLATED & SHOULD BE CONFIRMED ON SITE PRIOR TO COMPLETING CONSTRUCTION.
3. HEADWALLS ARE TO BE APPROVED PRECAST UNITS U.N.O. SLOPING HEADWALLS ARE TO BE USED IN ACCORDANCE WITH COUNCIL REQUIREMENTS. CAST INSITU HEADWALLS ARE TO BE AS PER QUEENSLAND DEPARTMENT OF MAIN ROADS STANDARD DETAILS & SPECIFICATIONS.
4. SIDE ENTRY PITS ARE TO BE PRECAST SIDE INLET GULLY LIP IN LINE. REFER TO LONGSECTIONS FOR KERB & LINTEL SIZE.
5. SEEPAGE HOLES ARE TO BE PROVIDED IN THE WALL OF ALL PITS TO ACCEPT FLOWS FROM PIPE BEDDING.
6. AN APPROVED CONVERTER SLAB SHALL BE USED UNDER THE CHAMBER FOR SHAFT DIAMETERS LARGER THAN 1050mm.
7. THE GEOMETRIC CENTRE SHALL BE TAKEN AS THE SETOUT POINT FOR ALL STRUCTURES, UNLESS DETAILED OTHERWISE.
8. IN INSTANCES WHERE REAR ALLOTMENT DRAINAGE IS NOT PROVIDED, THE CONTRACTOR SHALL INSTALL A ROOFWATER CONNECTION TO EACH PROPERTY BY ONE OF THE FOLLOWING METHODS, AS SHOWN ON THE LAYOUT PLAN:
   - TWO ROOFWATER KERB ADAPTOR 500mm FROM THE DOWNSTREAM BOUNDARY (UNLESS SHOWN ON A DIFFERENT ALIGNMENT). WHERE THERE IS A CONCRETE FOOTPATH, A ROOFWATER PIPE SHALL BE INSTALLED FROM THE PROPERTY BOUNDARY CONNECTED TO THE KERB ADAPTOR AT 1.25% MINIMUM GRADE IN ACCORDANCE WITH COUNCIL'S STANDARDS.
   - ONE 150Ø ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0% GRADE WITH 1.0m COVER.
9. ALL PVC PIPES ARE TO BE MINIMUM CLASS SN8.
10. END CAPS SHALL BE INSTALLED ON ENDS OF ALL PIPES AND STUBS.
11. PROPERTY CONNECTIONS SHALL BE 100Ø UNLESS SHOWN OTHERWISE. THE CONTRACTOR SHALL EXTEND CONNECTIONS A MINIMUM OF 1.0m BEYOND ADJACENT SEWER LINES, WHERE APPLICABLE.

Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

Date: 8/09/2025

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: **ISSUED FOR APPROVAL**

APPROVED TIMOTHY WOOD — RPEQ: 29318 — DATE: 08.07.2025

smec an SU company

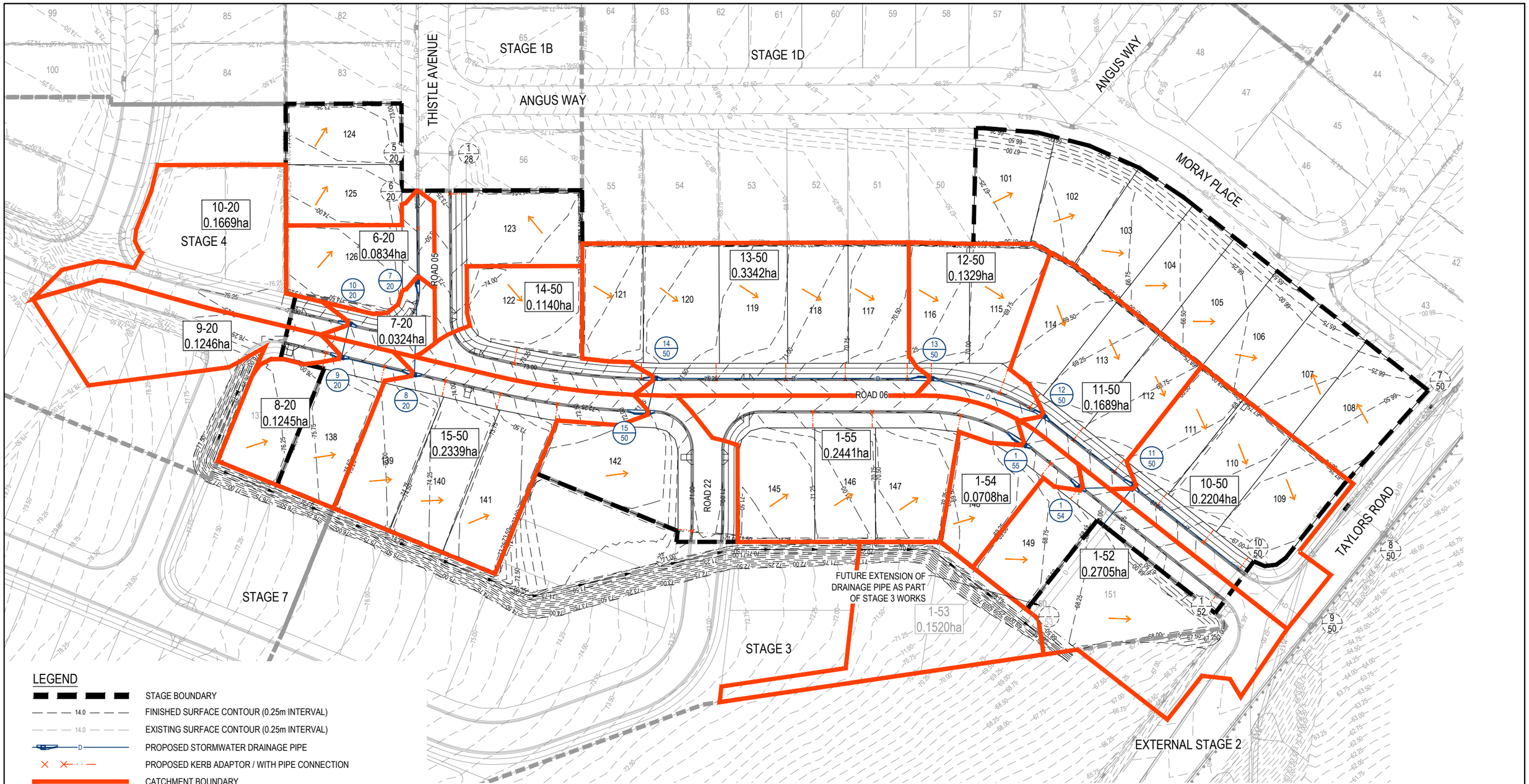
Scale 1:500 (0 5 10 20)

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: STORMWATER LAYOUT PLAN

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-300	A



LEGEND

- STAGE BOUNDARY
- FINISHED SURFACE CONTOUR (0.25m INTERVAL)
- EXISTING SURFACE CONTOUR (0.25m INTERVAL)
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED KERB ADAPTOR / WITH PIPE CONNECTION
- CATCHMENT BOUNDARY
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED STORMWATER STRUCTURE LABELS
- EXISTING STORMWATER STRUCTURE LABELS
- CATCHEMENT LABEL

Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

Date: 8/09/2025

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
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STATUS: ISSUED FOR APPROVAL

APPROVED RPEQ: 29318

TIMOTHY WOOD DATE: 08.07.2025

smec an SJ company

Scale 1:500

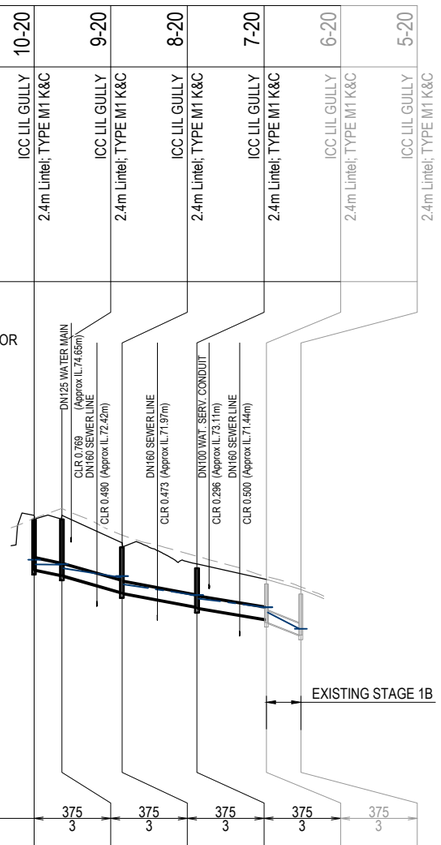
CLIENT: HIGHLAND WALLOON

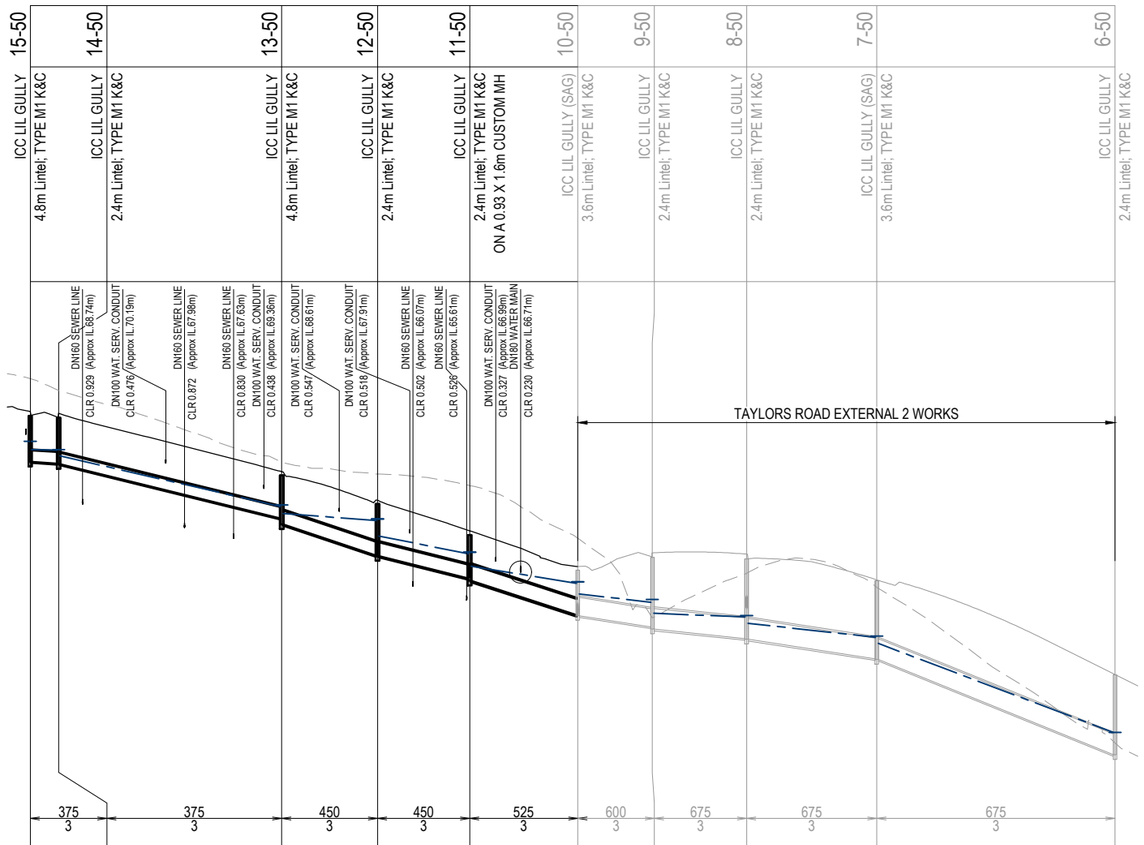
PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: STORMWATER CATCHMENT LAYOUT PLAN

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-320	A

STRUCTURE NAME	10-20	9-20	8-20	7-20	6-20	5-20	15-50	14-50	13-50	12-50	11-50	10-50	9-50	8-50	7-50	6-50
STRUCTURE DESCRIPTION	ICC LIL GULLY	ICC LIL GULLY	ICC LIL GULLY	ICC LIL GULLY	ICC LIL GULLY	ICC LIL GULLY	ICC LIL GULLY	ICC LIL GULLY	ICC LIL GULLY	ICC LIL GULLY	ICC LIL GULLY	ICC LIL GULLY (SAG)	ICC LIL GULLY	ICC LIL GULLY	ICC LIL GULLY (SAG)	ICC LIL GULLY
	2.4m Lintel; TYPE M1 K&C	2.4m Lintel; TYPE M1 K&C	2.4m Lintel; TYPE M1 K&C	2.4m Lintel; TYPE M1 K&C	2.4m Lintel; TYPE M1 K&C	2.4m Lintel; TYPE M1 K&C	4.8m Lintel; TYPE M1 K&C	2.4m Lintel; TYPE M1 K&C	4.8m Lintel; TYPE M1 K&C	2.4m Lintel; TYPE M1 K&C	2.4m Lintel; TYPE M1 K&C ON A 0.93 X 1.6m CUSTOM MH	3.6m Lintel; TYPE M1 K&C	2.4m Lintel; TYPE M1 K&C	2.4m Lintel; TYPE M1 K&C	3.6m Lintel; TYPE M1 K&C	2.4m Lintel; TYPE M1 K&C
PIPE SIZE (mm)	375	375	375	375	375		375	375	450	450	525	600	675	675	675	
PIPE CLASS	3	3	3	3	3		3	3	3	3	3	3	3	3	3	
PIPE GRADE (%)	2.08%	2.86%	1.87%	1.66%	3.99%		0.68%	2.46%	3.34%	2.50%	3.26%	1.58%	1.03%	1.54%	4.05%	
PIPE SLOPE (1 in X)	48.16	34.95	53.56	60.29	25.04		147.18	40.65	29.90	40.00	30.63	63.30	96.89	65.09	24.70	
FULL PIPE VELOCITY (m/s)	0.55	0.99	1.43	1.60	1.89		0.81	1.22	1.60	2.53	2.47	2.34	1.85	1.86	1.88	
PART FULL VELOCITY (m/s)	1.88	2.48	2.32	2.26	3.31		1.38	2.48	3.26	3.20	3.87	3.07	2.64	3.09	4.45	
DATUM RL	61.0						54.0									
H.G.L IN PIPE & W.S.E IN STRUCTURE	73.932 / 73.784 / 73.792	73.773 / 73.792	73.659 / 73.356 / 73.402	73.133 / 72.777 / 72.783	72.668 / 72.389 / 72.389	72.219 / 71.686 / 71.686	70.796 / 70.525 / 70.526	70.320 / 68.671 / 68.721	68.442 / 68.213 / 68.267	67.707 / 67.126 / 67.184	66.727 / 66.166 / 66.215	65.821 / 65.548 / 65.643	65.188 / 65.070 / 65.111	64.862 / 64.407 / 64.446	64.206 / 61.305 / 61.305	61.305
PIPE FLOW (Cumecs)	0.060	0.109	0.158	0.177	0.209		0.089	0.135	0.255	0.403	0.535	0.663	0.661	0.667	0.671	
PIPE CAPACITY AT GRADE (Cumecs)	0.253	0.297	0.240	0.226	0.351		0.145	0.275	0.522	0.451	0.777	0.772	0.854	1.042	1.692	
DEPTH TO INVERT	1.778 / 1.949	1.969 / 1.604	1.644 / 1.397	1.437 / 1.288	1.399 / 1.484	1.484	1.638 / 1.639	1.659 / 1.527	1.721 / 1.797	1.817 / 1.553	1.628 / 1.587	1.607 / 2.419	2.487 / 2.754	2.774 / 2.569	2.589 / 2.616	2.616
INVERT LEVEL OF DRAIN	73.606 / 73.435	73.415 / 72.880	72.840 / 72.400	72.360 / 72.000	71.889 / 71.477	71.477	70.126 / 70.069	70.049 / 68.281	68.087 / 67.073	67.053 / 66.325	66.250 / 65.129	65.109 / 64.739	64.671 / 64.363	64.343 / 63.705	63.685 / 60.577	60.577
DESIGN SURFACE LEVEL	75.244 / 75.244	74.344	73.657	73.148	72.820		71.624 / 71.568	69.687	68.751	67.738	66.599	67.008	66.963	66.249	63.186	
SETOUT COORDINATES	E 464819.673 / N 6948112.341	E 464811.244 / N 6948109.838	E 464816.566 / N 6948090.945	E 464838.187 / N 6948102.342	E 464857.745 / N 6948113.736	E 464867.478 / N 6948119.370	E 464838.492 / N 6948032.546	E 464847.264 / N 6948035.408	E 464883.389 / N 6947972.217	E 464889.581 / N 6947941.619	E 464885.382 / N 6947911.867	E 464880.251 / N 6947876.977	E 464876.736 / N 6947852.928	E 464907.150 / N 6947848.337	E 464949.497 / N 6947851.272	E 465026.320 / N 6947839.679
RUNNING CHAINAGE	0.000 / 8.235 / 9.070	18.696 / 28.696	23.566 / 53.144	21.705 / 75.779	10.316 / 87.026		-12.639 / 8.408 / -3.396	71.858 / 69.392	30.327 / 100.649	29.117 / 130.696	34.336 / 165.962	23.422 / 190.266	29.841 / 221.037	41.530 / 263.497	76.763 / 341.189	
LINE	20						50									





NOTE:
1. REFER PROJECT DRAWING 331 FOR LEGEND, NOTES AND DETAILS.

Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

Date: 8/09/2025

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: ISSUED FOR APPROVAL
APPROVED
RPEQ: 29318
TIMOTHY WOOD
DATE 08.07.2025

smec an Su company
© ABN 47 065 475 149

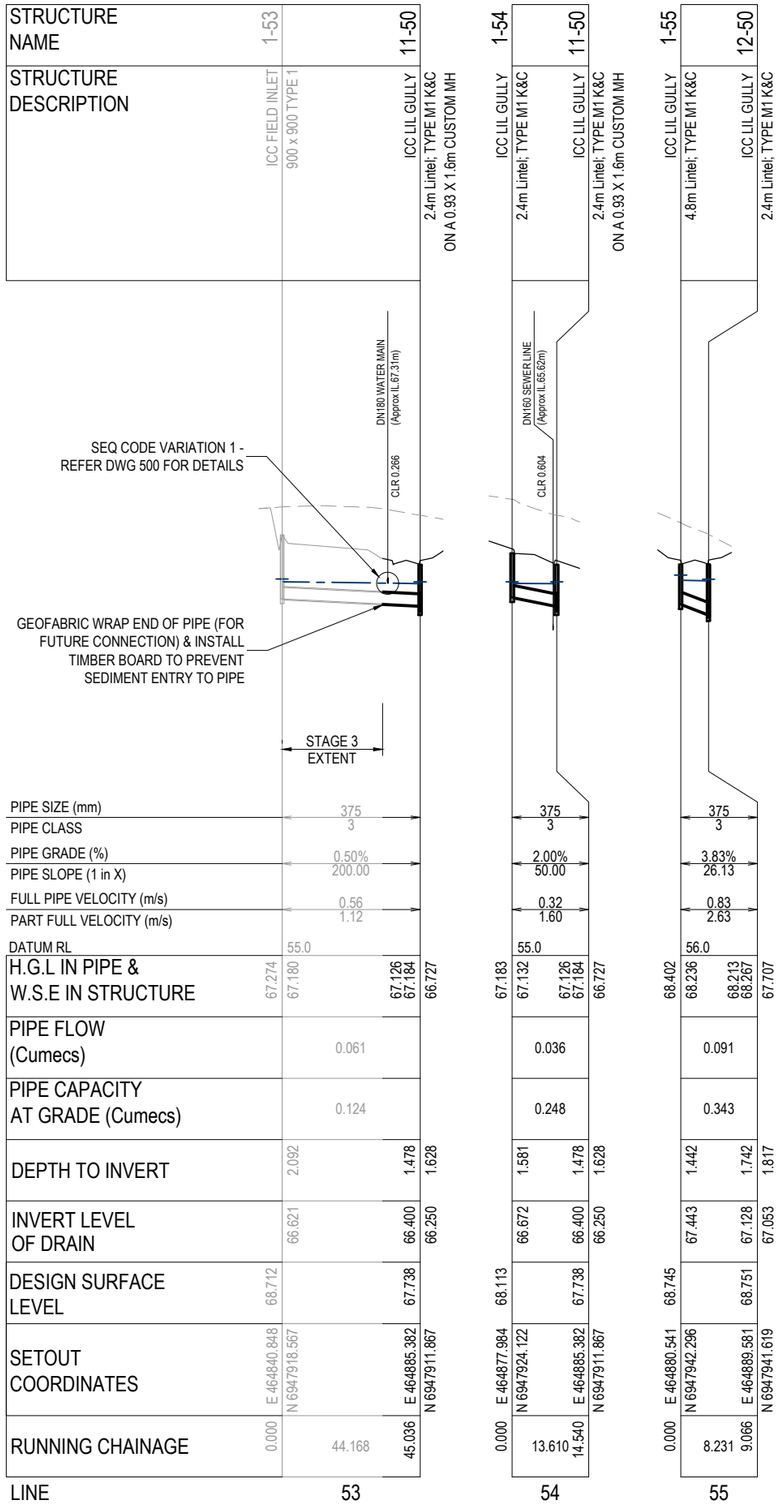
0 10 20 40
0 1 2 4
Scale H1:1000, V1:100

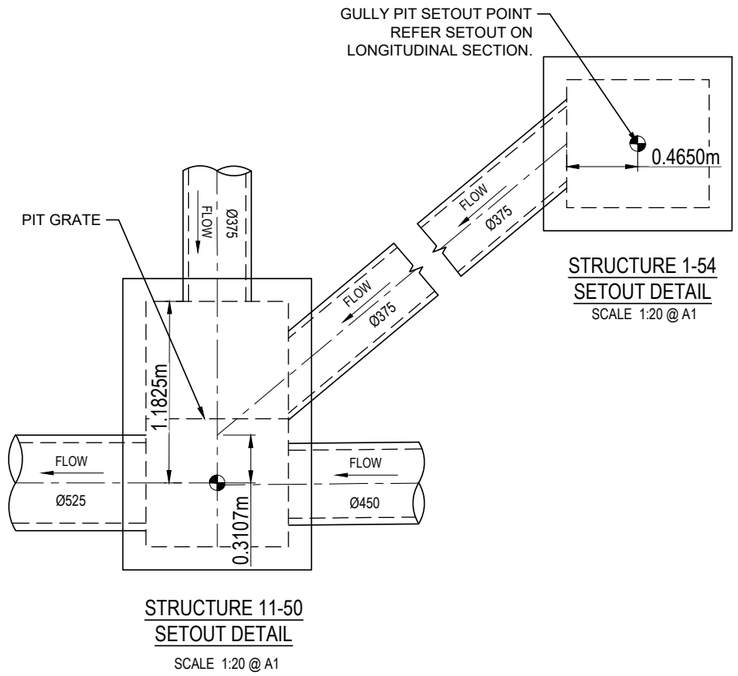
CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: STORMWATER LONGITUDINAL SECTIONS SHEET 1 OF 2

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-330	A





STRUCTURE 1-54
SETOUT DETAIL
SCALE 1:20 @ A1

STRUCTURE 11-50
SETOUT DETAIL
SCALE 1:20 @ A1

NOTES

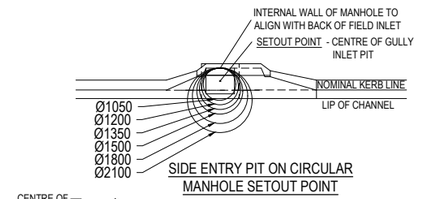
1. REFER PROJECT DRAWING 300 FOR STORMWATER DRAINAGE LAYOUT PLAN.
2. REFER PROJECT DRAWING 320 FOR STORMWATER OVERALL STAGE CATCHMENT PLAN.
3. 2 YEAR MINOR STORM EVENT FOR ACCESS STREETS AND 10 YEAR MINOR STORM EVENT FOR COLLECTOR STREETS & 100 YEAR MAJOR STORM EVENT HAVE BEEN ADOPTED.
4. STRUCTURE LOCATION COORDINATES FOR ALL "SIDE ENTRY" PITS HAVE BEEN TAKEN ON THE NOMINAL KERB LINE AT THE PITS MID POINT. REFER DETAIL BELOW.
5. STRUCTURE LOCATION COORDINATES FOR ALL "SIDE ENTRY PITS ON CIRCULAR MANHOLES HAVE BEEN TAKEN ON THE NOMINAL KERB LINE AT THE INLET PITS MID POINT. MANHOLES TO BE OFFSET TOWARD PAVEMENT. REFER DETAIL BELOW.
6. STRUCTURE LOCATION COORDINATES FOR ALL HEADWALLS HAVE BEEN TAKEN AT THE DOWNSTREAM INVERT OF THE PIPE. REFER DETAIL BELOW.
7. STRUCTURE SPECIFIC SETOUT DETAILS SUPERSEDE SETOUT SHOWN ON STORMWATER LONGSECTIONS.

LEGEND

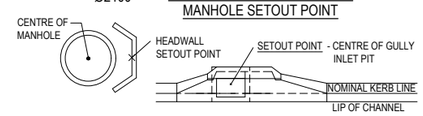
- Q10 H.G.L.
- Q2 H.G.L.
- PRE-DEVELOPMENT EXISTING SURFACE
- DESIGN SURFACE

MANHOLE SETOUT TABLE

MANHOLE DIA. (mm)	OFFSET FROM CENTRE OF GULLY TO CENTRE OF MANHOLE (m)
1050	0.1075
1200	0.1825
1350	0.2575
1500	0.3353
1800	0.4853
2100	0.6353



SIDE ENTRY PIT ON CIRCULAR MANHOLE SETOUT POINT



SIDE ENTRY PIT SETOUT POINT

Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

Date: 8/09/2025

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: ISSUED FOR APPROVAL

APPROVED TIMOTHY WOOD

RPEQ: 29318

DATE 08.07.2025

smec an Su company

Scale H1:1000, V1:100

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: STORMWATER LONGITUDINAL SECTIONS SHEET 2 OF 2

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-331	A

LOCATION			SUB-CATCHMENT RUNOFF					INLET DESIGN											DRAIN DESIGN								HEAD LOSSES								PART FULL		DESIGN LEVELS							
			Tc	I	A	CA	Qc	Qa							Qg	Qb			Tc	I	CA	Qrat	Q	L	S			Qcap	Vcap & Tv		V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn							
DESIGN ARI	STRUCTURE No.	DRAIN SECTION	SUB CATCHMENT CONTRIBUTING	SUB-CATCHMENT TIME OF CONC.	RAINFALL INTENSITY	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	HALF ROAD CAPACITY	FLOW WIDTH	FLOW DEPTH	ROAD GRADE AT INLET	ROAD CROSSFALL AT INLET	INLET TYPE	INLET CURVE	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE No.	CRITICAL TIME OF CONC.	RAINFALL INTENSITY	TOTAL (C x A)	PEAK FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE SIZE	PIPE CLASS	CAPACITY FLOW	CAP. & TRA. VELOCITY	CHART(S) USED	VELOCITY HEAD	U/S HEAD LOSS COEFFICIENT	U/S HEAD LOSS	W.S.E COEFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEAD LOSS	NORMAL DEPTH	NORMAL DEPTH VEL.	PIPE U/S I.L	PIPE D/S I.L	PIPE U/S H.G.L	PIPE D/S H.G.L	W.S.E	GRATE LEVEL	STRUCTURE No.
yrs				min	mm/h	ha	ha	L/s	L/s	L/s	m	m	%	%			L/s	L/s		min	mm/hr	ha	L/s	L/s	m	%	mm		m/s				m		m		m	m	m/s	m	m	m	m	m	m	
10	10-20	10-20		10.00	147	0.167	0.142	58	67	651	1.864	0.069	4.59	3.00	AL2D	4G,3.3X	60	7	7-20	10.00	147	0.142	67	60	8.235	2.08	375	3	253	2.00	G2	0.015	9.70	0.148		0.148	0.14	0.064	0.125	1.88	73.606	73.435	73.784	73.773	73.932	75.244	10-20
100	10-20	10-20		10.00	224	0.167	0.165	103	120	651	2.344	0.082	4.59	3.00	AL2D	4G,3.3X	73	47	7-20	10.00	224	0.165	120	73	8.235	2.08	375	3	253	2.00	G2	0.022	7.38	0.164		0.164	0.17	0.014	0.138	1.98	73.606	73.435	74.166	74.151	74.330	75.244	10-20
10	9-20	9-20	10-20	10.00	147	0.125	0.106	43	50	651	1.657	0.063	4.59	3.00	AL2D	4G,3.3X	49	1		10.07	147	0.248	117	109	18.696	2.86	375	3	297	2.00	T10	0.050	2.28	0.114	2.66	0.133	1.62	0.359	0.158	2.48	73.415	72.880	73.659	73.356	73.792	75.244	9-20
100	9-20	9-20	10-20	10.00	224	0.125	0.123	77	90	651	2.090	0.075	4.59	3.00	AL2D	4G,3.3X	59	31	8-20	10.07	223	0.289	210	131	18.696	2.86	375	3	297	2.00	T10	0.072	1.93	0.139	2.38	0.172	0.56	0.105	0.175	2.60	73.415	72.880	74.012	73.907	74.184	75.244	9-20
10	8-20	8-20	10-20 9-20	10.00	147	0.124	0.106	43	51	651	1.667	0.063	4.59	3.00	AL2D	4G,3.3X	50	1	15-50	10.22	146	0.353	167	158	23.566	1.87	375	3	240	2.00	T10	0.105	2.12	0.223	2.56	0.269	1.51	0.400	0.223	2.32	72.840	72.400	73.133	72.777	73.402	74.344	8-20
100	8-20	8-20	10-20 9-20	10.00	224	0.124	0.123	77	121	651	2.347	0.082	4.59	3.00	AL2D	4G,3.3X	73	48	15-50	10.22	222	0.412	298	203	23.566	1.87	375	3	240	2.00	T10	0.172	1.55	0.267	1.93	0.331	1.33	0.315	0.265	2.43	72.840	72.400	73.641	73.326	73.972	74.344	8-20
10	7-20	7-20	10-20 9-20 8-20	10.00	147	0.032	0.028	11	20	456	1.313	0.053	2.25	3.00	AL2D	2G,3.3X	20	0	6-20	10.42	145	0.381	178	177	21.705	1.66	375	3	226	2.00	T1/T3	0.131	0.83	0.109	0.87	0.114	1.29	0.318	0.250	2.26	72.360	72.000	72.668	72.389	72.783	73.657	7-20
100	7-20	7-20	10-20 9-20 8-20	10.00	224	0.032	0.032	20	71	456	2.189	0.078	2.25	3.00	AL2D	2G,3.3X	56	14	6-20	10.42	221	0.444	319	257	21.705	1.66	375	3	226	2.00	T1/T3	0.275	0.91	0.250	0.93	0.257	2.14	0.464	0.375	2.32	72.360	72.000	73.076	72.611	73.333	73.657	7-20
10	6-20	6-20	10-20 9-20 8-20 7-20	10.00	147	0.083	0.071	29	34	456	1.627	0.062	2.25	3.00	AL2D	2G,3.3X	34	0	LOST	10.60	144	0.452	210	209	10.316	3.99	375	3	351	2.00	T1	0.183	0.93	0.170		0.170	5.17	0.184	0.209	3.31	71.889	71.477	72.219	71.686	72.389	73.148	6-20
100	6-20	6-20	10-20 9-20 8-20 7-20	10.00	224	0.083	0.083	51	75	456	2.234	0.079	2.25	3.00	AL2D	2G,3.3X	58	16	LOST	10.60	220	0.526	376	312	10.316	3.99	375	3	351	2.00	T1	0.406	0.88	0.359		0.360	4.84	0.258	0.275	3.58	71.889	71.477	72.252	71.752	72.612	73.148	6-20
10	5-20		10-20 9-20 8-20 7-20 6-20										1.00	2.99	AL2D																														71.686	72.820	5-20
100	5-20		10-20 9-20 8-20 7-20 6-20										1.00	2.99	AL2D																														71.752	72.820	5-20
10	15-50	15-50		10.00	147	0.234	0.199	81	95	557	2.274	0.080	3.37	3.03	AL4D	4G,3.3X	89	6	LOST	10.00	147	0.199	94	89	8.408	0.68	375	3	145	2.00	G2	0.033	8.16	0.271		0.271	0.26	0.022	0.213	1.38	70.126	70.069	70.525	70.503	70.796	71.624	15-50
100	15-50	15-50		10.00	224	0.234	0.232	144	216	557	3.123	0.104	3.37	3.03	AL4D	4G,3.3X	129	87	LOST	10.00	224	0.232	169	129	8.408	0.68	375	3	145	2.00	G2	0.070	4.89	0.341		0.341	0.54	0.046	0.277	1.48	70.126	70.069	70.724	70.678	71.065	71.624	15-50
10	14-50	14-50	15-50	10.00	147	0.114	0.097	40	46	559	1.699	0.064	1.65	3.00	AL2D	2G,3.3X	46	0	13-50	10.07	147	0.296	140	135	71.858	2.46	375	3	275	2.00	T9/T10	0.076	2.41	0.183	2.71	0.206	2.29	1.700	0.185	2.48	70.049	68.281	70.320	68.671	70.526	71.568	14-50
100	14-50	14-50	15-50	10.00	224	0.114	0.113	70	82	559	2.142	0.077	1.65	3.00	AL2D	2G,3.3X	62	20	13-50	10.07	223	0.344	250	190	71.858	2.46	375	3	275	2.00	T9/T10	0.152	2.05	0.311	2.43	0.368	1.23	0.917	0.230	2.69	70.049	68.281	70.367	69.484	70.736	71.568	14-50
10	13-50	13-50	15-50 14-50	10.00	147	0.334	0.284	116	135	497	2.723	0.093	2.60	3.08	AL4D	2G,3.3X	125	10	12-50	10.67	144	0.580	270	255	30.327	3.34	450	3	522	2.00	T1/T3	0.131	1.75	0.229	2.14	0.279	0.75	0.281	0.222	3.26	68.087	67.073	68.442	68.213	68.721	69.687	13-50
100	13-50	13-50	15-50 14-50	10.00	224	0.334	0.331	206	261	497	3.509	0.115	2.60	3.08	AL4D	2G,3.3X	164	98	12-50	10.67	219	0.675	481	344	30.327	3.34	450	3	522	2.00	T1/T3	0.239	1.44	0.343	1.49	0.355	1.46	0.442	0.267	3.50	68.087	67.073	69.141	68.699	69.496	69.687	13-50
10	12-50	12-50	1-55 15-50 14-50 13-50	10.00	147	0.133	0.113	46	63	530	1.933	0.072	1.65	3.00	AL2D	2G,3.3X	63	0	11-50	10.92	143	0.900	415	403	29.117	2.50	450	3	451	2.00	T3/T6	0.327	1.55	0.506	1.71	0.560	2.00	0.581	0.332	3.20	67.053	66.325	67.707	67.126	68.267	68.751	12-50
100	12-50	12-50	1-55 15-50 14-50 13-50	10.00	224	0.133	0.132	82	194	530	3.030	0.102	1.65	3.00	AL2D	2G,3.3X	109	84	11-50	10.92	217	1.049	742	494	29.117	2.50	450	3	451	2.00	T3/T6	0.314	1.28	0.404	1.43	0.450	1.92	0.558	0.450	3.11	67.053	66.325	68.295	67.738	68.745	68.751	12-50
10	11-50	11-50	1-54 1-53 1-55 15-50 14-50 13-50 12-50	10.00	147	0.169	0.143	59	59	561	1.872	0.069	1.75	3.00	AL2D	2G,3.3X	59	0	10-50	11.16	142	1.233	541	535	34.336	3.26	525	3	777	2.00	T1/T3	0.312	1.28	0.399	1.46	0.456	1.64	0.592	0.320	3.87	66.250	65.129	66.727	66.166	67.184	67.738	11-50
100	11-50	11-50	1-54 1-53 1-55 15-50 14-50 13-50 12-50	10.00	224	0.169	0.167	104	188	561	2.954	0.099	1.75	3.00	AL2D	2G,3.3X	-64	252	10-50	11.16	216	1.436	965	593	34.336	3.26	525	3	777	2.00	T1/T3	0.382	1.08	0.412	1.28	0.489	1.90	0.651	0.343	3.95	66.250	65.129	67.249	66.597	67.738	67.738	11-50
10	10-50	10-50	1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50	10.00	147	0.220	0.187	76	76	416		0.000	1.00	3.00	SAL3D		76	0		11.45	141	1.650	668	663	23.422	1.58	600	3	772	2.00	T1/T3	0.280	1.23	0.345	1.41	0.394	1.16	0.273	0.428	3.07	65.109	64.739	65.821	65.548	66.215	66.599	10-50
100	10-50	10-50	1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50	10.00	224	0.220	0.218	136	388	208		0.270	1.00	3.00	SAL3D		388	0		11.45	214	1.922	1185	915	23.422	1.58	600	3	772	2.00	T1/T3	0.056	1.31	0.073	1.34	0.075	0.23	0.054	0.600	3.23	65.109	64.739	66.525	66.470	66.599	66.599	10-50
10	9-50	9-50	1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50 10-50	10.00	147	0.006	0.005	2	2				1.00	1.72	AL2D		2	0		11.65	140	1.655	666	661	29.841	1.03	675	3	854	2.00	T10	0.174	2.07	0.360	2.61	0.454	0.40	0.202	0.446	2.64	64.671	64.363	65.188	65.070	65.643	67.008	9-50
100	9-50	9-50	1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50 10-50	10.00	224	0.006	0.006	4	4				1.00	1.72	AL2D		4	0		11.65	213	1.928	1182	911	29.841	1.03	675	3	854	2.00	T10	0.331	1.76	0.582	2.05	0.678	1.17	0.350	0.609	2.68	64.671	64.363	65.888	65.538	66.566	67.008	9-50
10	8-50	8-50	6-51 1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50 10-50 9-50	10.00	147	0.010	0.008	3	4				1.00	3.00	AL2D		4	0		11.89	139	1.683	672	667	41.530	1.54	675	3	1042	2.00	T1/T3	0.177	1.17	0.208	1.40	0.249	1.10	0.538	0.393	3.09	64.343	63.705	64.862	64.407	65.111	66.963	8-50
100	8-50	8-50	6-51 1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50 10-50 9-50	10.00	224	0.010	0.009	6	7				1.00	3.00	AL2D		7	0		11.89	211	1.961	1192	922	41.530	1.54	675	3	1042	2.00	T1/T3	0.339	1.11	0.377	1.28	0.434	1.20	0.499	0.494	3.29	64.343	63.705	65.161	64.661	65.595	66.963	8-50
10	7-50	7-50	6-51 1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50 10-50 9-50 8-50	10.00	147	0.034	0.029	12	14				1.00	3.00	AL3D		14	0		12.24	137	1.712	677	671	76.763	4.05	675	3	1692	2.00	T1/T3	0.180	1.12	0.201	1.33	0.239	3.78	2.983	0.296	4.45	63.685	60.577	64.206	61.305	64.446	66.249	7-50
100	7-50	7-50	6-51 1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50 10-50 9-50 8-50	10.00	224	0.034	0.034	21	25				1.00	3.00	AL3D		25	0		12.24	208	1.994	1200	930	76.763	4.05	675	3	1692	2.00	T1/T3	0.344	1.10	0.378	1.29	0.443	3.66	2.855	0.357	4.84	63.685	60.577	64.283	61.476	64.726	66.249	7-50
10	6-50		6-51 1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50 10-50 9-50 8-50 7-50										1.00	3.00	AL2D																														61.305	63.186	6-50
100	6-50		6-51 1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50 10-50 9-50 8-50 7-50										1.00	3.00	AL2D																														61.476	63.186	6-50
10	6-51	6-51		10.00	147	0.023	0.019	8	9				1.00	3.00	AL2D		9	0		10.00	147	0.019	9	9	11.382	1.12	375	RCP 3	185	2.00	G1	0.000	7.00	0.002		0.002	1.21	0.122	0.057	0.87	65.491	65.364	65.559	65.421	65.561	66.877	6-51
100	6-51	6-51		10.00	224	0.023	0.023	14	17				1.00	3.00	AL2D		17	0		10.00	224	0.023	17	17	11.382	1.12	375	RCP 3	185	2.00	G1	0.001	7.00	0.008		0.008	0.39	0.071	0.076	1.04	65.491	65.364	65.582	65.538	65.590	66.877	6-51
10	8-50		6-51 1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50 10-50 9-50	10.00	147	0.010	0.008	3	4				1.00	3.00	AL2D		4	0														T1/T3		1.17	0.208	1.40	0.249										65.111	66.963	8-50
100	8-50		6-51 1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50 10-50 9-50	10.00	224	0.010	0.009	6	7				1.00	3.00	AL2D		7	0														T1/T3		1.11	0.377	1.28	0.434										65.595	66.963	8-50
10	1-52	1-52		10.00	147	0.271	0.230	94	94	416		0.011	1.00	3.00	SAL3D	SAG	94	0	LOST	10.00	147	0.230	94	94	8.249	1.00	375	3	175	2.00	G2	0.037	3.83	0.141		0.141	0.29	0.024	0.195	1.61	65.211	65.129	66.189	66.166	66.331	66.601	1-52
100	1-52	1-52		10.00	224	0.271	0.268	166	247	16		0.200	1.00	3.00	SAL3D	SAG	16	231	LOST	10.00	224	0.268	166	16	8.249	1.00	375	3	175	2.00	G2	0.001	3.04	0.003		0.003	0.01	0.001	0.077	0.99	65.211	65.129	66.598	66.597	66.601	66.601	1-52
10	10-50		1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50	10.00	147	0.220	0.187	76	76	416		0.000	1.00	3.00	SAL3D		76	0														T1/T3		1.23	0.345	1.41	0.394										66.215	66.599	10-50
100	10-50		1-52 1-54 1-53 1-55 15-50 14-50 13-50 12-50 11-50	10.00	224	0.220	0.218	136	388	208		0.270	1.00	3.00	SAL3D		388	0														T1/T3		1.31	0.073	1.34	0.075										66.599	66.599	10-50
10	1-53	1-53		10.00	147	0.152	0.129	53	61			0.073	1.00	3.00	SF1		61	0		10.00	147	0.129	61	61	44.168	0.50	375	3	124	2.00	G1	0.016	5.94	0.094		0.094	0.12	0.054	0.186	1.12	66.621	66.400	67.180	67.126	67.274	68.712	1-53
100	1-53	1-53		10.00	224	0.152	0.151	94	110			0.174	1.00	3.00	SF1		110	0		10.00	224	0.151	110	110	44.168	0.50	375	3	124	2.00	G1	0.050	2.60	0.131		0.131	0.39	0.173	0.274	1.27	66.621	66.400	67.910	67.738	68.041	68.712	1-53
10	11-50		1-54 1-53 1-55 15-50 14-50 13-50 12-50	10.00	147	0.169	0.143	59	59	561	1.872	0.069	1.75	3.00	AL2D	2G,3.3X	59	0	10-50													T1/T3		1.28	0.399	1.46	0.456										67.184	67.738	11-50
100	11-50		1-54 1-53 1-55 15-50 14-50 13-50 12-50	10.00	224	0.169	0.167	104	188	561	2.954	0.099	1.75	3.00	AL2D	2G,3.3X	-64	252	10-50													T1/T3		1.08	0.412	1.28	0.489										67.738	67.738	11-50
10	1-54	1-54		10.00	147	0.071	0.060	25	36	561	1.531	0.059	3.40	3.00	AL2D	4G,3.3X	36	0	1-52	10.00	147	0.060	29	36	13.610	2.00	375	3	248	2.00	G2	0.005	9.70	0.052		0.052	0.04	0.006	0.096	1.60	66.672	66.400	67.132	67.126	67.183	68.113	1-54
100	1-54	1-54		10.00	224	0.071	0.070	44	174	561	2.867	0.097	3.40	3.00	AL2D	4G,3.3X	94	80	1-52	10.00	224	0.070	51	94	13.610	2.00	375	3	248	2.00	G2	0.037	3.49	0.129		0.129	0.29	0.039	0.160	2.09	66.672	66.400	67.777	67.738	67.905	68.113	1-54
10	11-50		1-54 1-53 1-55 15-50 14-50 13-50 12-50	10.00	147	0.169	0.143	59	59	561	1.872	0.069	1.75	3.00	AL2D	2G,3.3X	59	0	10-50													T1/T3		1.28	0.399	1.46	0.456										67.184	67.738	11-50
100	11-50		1-54 1-53 1-55 15-50 14-50 13-50 12-50	10.00	224	0.169	0.167	104	188	561	2.954	0.099	1.75	3.00	AL2D	2G,3.3X	-64	252	10-50													T1/T3		1.08	0.412	1.28	0.489										67.738	67.738	11-50
10	1-55	1-55		10.00	147	0.244	0.207	85	98	578	2.239	0.080	3.72	3.04	AL4D	4G,3.3X	91	7	1-54	10.00	147	0.207	98	91	8.231	3.83	375	3	343	2.00	G2	0.035	4.77	0.167		0.167	0.27	0.022	0.132	2.63	67.443	67.128	68.236	68.213	68.402	68.745	1-55
100	1-55	1-55		10.00	224	0.244	0.242	150	176	578	2.805	0.096	3.72	3.04	AL4D	4G,3.3X	53	123	1-54	10.00	224	0.242	176	53	8.231	3.83	375	3	343	2.00	G2	0.012	3.29	0.038		0.038	0.09	0.007	0.099	2.25	67.443	67.128	68.707	68.699	68.745	68.745	1-55

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: ISSUED FOR APPROVAL

APPROVED

TIMOTHY WOOD

RPEQ: 29318

DATE: 08.07.2025

smec an SJ company

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: STORMWATER CALCULATION TABLE

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-340	A

LEGEND

- STAGE BOUNDARY
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING U/G ELECTRICITY/STREETLIGHTS & PILLARS
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED KERB ADAPTOR / WITH PIPE CONNECTION
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN, STRUCTURES, CONNECTION
- PROPOSED U/G ELECTRICITY/STREETLIGHTS & PILLARS
- PROPOSED SURFACE CONTOURS (0.25m INTERVAL)
- PROPOSED LANDSCAPE ARCHITECT FEATURE/STREET TREE
- FUTURE DRIVEWAY AND CROSSOVER (INDICATIVE LOCATION ONLY SUBJECT TO BUILDING APPROVAL)

Sewer and Water are not part of the approval

Pursuant to the Planning Act 2016, this plan forms part of Council's approval for

Approval No: 7317/2025/OW

Date: 8/09/2025

REV	DATE	AMENDMENT \ REVISION DESCRIPTION	DRAFT	DESIGN	WVR No.
A	08.07.2025	ISSUED FOR APPROVAL	HP	NP	52

STATUS: **ISSUED FOR APPROVAL**

APPROVED RPEQ: 29318

TIMOTHY WOOD DATE: 08.07.2025

smec an SU company

0 5 10 20
Scale 1:500

CLIENT: HIGHLAND WALLOON

PROJECT NAME: HIGHLAND WALLOON STAGE 2
213 TAYLORS ROAD, WALLOON
IPSWICH CITY COUNCIL

DRAWING TITLE: COMBINED SERVICES LAYOUT PLAN

DATUM	SCALE	SIZE	PROJECT\DRAWING No	REVISION
AHD	AS SHOWN	A1	30032066-02-601	A